



INS 2022 50th ANNUAL MEETING VIRTUAL EVENT

February 1-4, 2022

CE Workshop 01: Understanding, Assessing, and Treating Sleep as a Transdiagnostic Process Underlying Subclinical Neurocognitive and Affective Issues and Mental Disorders -- Presenter: Esther Yuet Ying Lau

9:00am - 12:00pm Tuesday, 1st February, 2022



Esther Yuet Ying Lau, PhD

Associate Professor

Department of Psychology

The Education University of Hong Kong

Level of Instruction: Intermediate

Abstract & Learning Objectives:

Accumulating evidence converges to underline the contribution of sleep and sleep disorders to the neuropsychological functioning of individuals with and without mental illnesses. The pervasive influence of sleep on human neural systems underlying emotions and cognitions in both health and disease processes is being uncovered by researchers across disciplines, supporting the transdiagnostic role of sleep in various mental disorders. This workshop will first broadly address the sleep-related cognitive and affective processes that are critical and central to the understanding and promotion of neuropsychological health across the life span and cultures, with evidence from both experimental and longitudinal studies of our laboratory and others. Upon this scientific basis, this workshop will equip health practitioners and researchers with foundational knowledge regarding the psychopathology, assessment and interventions of sleep-wake dysfunctions. This half-day workshop will provide an overview of (1) basic sleep science including the neurocognitive-affective impact of sleep; (2) diagnoses, features and psychopathology of common sleep-wake disorders; and (3) assessment tools and treatment protocols of sleep disturbances with a focus on cognitive-behavioral therapy for insomnia (CBT-I).

Upon conclusion of this course, learners will be able to:

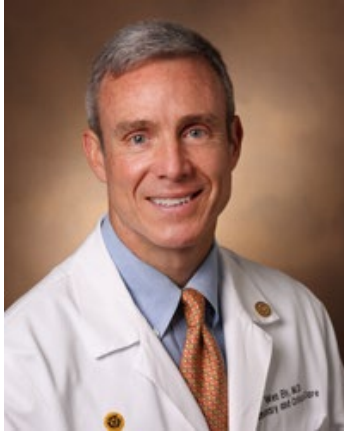
- Educate patients, the public, and fellow health care professionals on scientific knowledge of sleep
- Identify and conceptualize common sleep-wake disorders
- Apply assessment tools for sleep disturbances and CBT-I strategies upon further training

Speaker Biography:

Dr. Esther Yuet Ying Lau completed her doctoral training at Dalhousie University, Vancouver Coastal Health, and the University of British Columbia, Canada, specializing in clinical psychology and clinical neuropsychology. She is a registered clinical psychologist of the Hong Kong Psychological Society and a registered psychologist of British Columbia, Canada (out of province 2021-22). Her doctoral thesis investigated the neuropsychological consequences of obstructive sleep apnea after treatment with continuous positive airway pressure. Her clinical and research interests include the interaction between sleep and daytime functioning, neuropsychology of medical and psychiatric disorders, and spirituality and mental health. Currently, her primary line of research aims to uncover some of the complex relationships of sleep with cognitive-affective functioning and human flourishing, using neuropsychological, experimental, neurophysiological, and observational methods. With the support of six competitive peer-reviewed external grants in the last six years and more than 50 published papers in peer-reviewed international journals, Lau's research has shed light on the underlying neuropsychological mechanisms of the effects of sleep deprivation on emotions, cognitions and daily functioning. The findings have been disseminated via public media and workshops to education and government bodies and have led to changes in community attitudes and school policy. Lau's evidence-based advocacy, consultancy and training of practitioners have also resulted in the establishment and strengthening of clinical and community services for sleep health in tertiary institutions (routine sleep surveillance implemented), non-government organizations (sleep services being introduced in regional primary care settings), and government departments (centre for sleep health for personal wellbeing and professional competence being established).

CE Workshop 02: Cognitive Impairment after Critical Illness and the Contributions of Delirium: A Serious Public Health Concern -- Presenter: E. Wesley Ely

9:00am - 12:00pm Tuesday, 1st February, 2022



E. Wesley Ely, MD, MPH

Professor of Medicine

Vanderbilt University Medical Center

Attending Physician

Department of Veterans Affairs Medical Center, Nashville, Tennessee



James C. Jackson, Psy.D.

Research Professor in the Division of Allergy, Pulmonary, and Critical Care Medicine at Vanderbilt University Medical Center

Co-Founder and Director of Behavioral Health at The ICU Recovery Center at Vanderbilt

Director of Long-Term Outcomes at the Critical Illness, Brain Dysfunction and Survivorship (CIBS) Center

CE Workshop 02: Cognitive Impairment after Critical Illness and the Contributions of Delirium: A Serious Public Health Concern

Instructional Level: Intermediate

Abstract & Learning Objectives:

Every year in North America, millions of individuals are treated in intensive care units for serious and life-threatening medical conditions. Among survivors, as many as a third experience sustained cognitive impairment of a severity that impacts their functioning and impedes key areas of their life, while imperiling their quality of life. Risk factors for the development of this impairment are numerous and delirium - occurring in the ICU - appears to play a prominent role. In this workshop we will review the problem of cognitive impairment after critical illness, characterize it clinically, explore the contributions of conditions such as delirium, and highlight developments in treatment and rehabilitation.

Upon conclusion of this course, learners will be able to:

- Summarize contemporary thinking and understanding of the relationship between delirium and the development of cognitive impairment after critical illness
- Recognize the nature and characteristics of the cognitive impairment so prevalent in survivors of critical illness
- Apply insights about Post Intensive Care Syndrome to the care and understanding of patients

Speaker Biography:

Dr. E. Wesley Ely is an internist, pulmonologist, and critical care physician. Dr. Ely earned his MD at Tulane University School of Medicine, in conjunction with a Masters in Public Health. He serves as the Grant W. Liddle endowed chair in medicine and is a physician-scientist and tenured professor at Vanderbilt University Medical Center. He is also the associate director of aging research for the Tennessee Valley Veteran's Affairs Geriatric Research Education Clinical Center (GRECC). He is the founder and codirector of the Critical Illness, Brain Dysfunction, and Survivorship (CIBS) Center, and a pioneer in the investigation of delirium and long-term cognitive outcomes, including dementia, in survivors of critical illness.

Dr. James Jackson is a Research Professor in the Division of Allergy, Pulmonary, and Critical Care Medicine at Vanderbilt University Medical Center, Co-Founder and Director of Behavioral Health at The ICU Recovery Center at Vanderbilt, and the Director of Long-Term Outcomes at the Critical Illness, Brain Dysfunction and Survivorship (CIBS) Center. He is a licensed clinical psychologist and neuropsychologist and is one of the world's leading authorities on depression, PTSD, and cognitive functioning in survivors of critical illness and intensive care. He is the author of over 150 scientific publications (cited over 15,000 times, with an H-Index of 50) in journals such as the Journal of the American Medical Association (JAMA) and the New England Journal of Medicine (NEJM) among many others.

For the last 15 years, Dr. Jackson has consulted with attorneys from some of the largest law firms across the United States and Canada on cases at the intersection of mental health, cognition functioning, and critical illness, offering analyses and opinions grounded in his vast experience. A dynamic communicator and an influential voice on topics related to “Post Intensive Care Syndrome” and the long-term effects of Covid-19, Dr. Jackson and his research have been featured in The Atlantic, The New York Times, Scientific American, Stat Medicine, Time, USA Today, Very Well Health, The Washington Post, The Wall Street Journal, and Wired Magazine, among dozens of others.

CE Workshop 03: Impaired Self-Awareness After Brain Injury: Applying Guidelines for Assessment and Management -- Presenter: Tamara Ownsworth

9:00am - 12:00pm Tuesday, 1st February, 2022



Tamara Ownsworth, PhD

Research Director

The Hopkins Centre

Professor

School of Applied Psychology

Griffith University

Level of instruction: Intermediate

Abstract & Learning Objectives:

Self-awareness, or understanding your own strengths and weaknesses and noticing your thoughts and actions in the moment, is believed to contribute to better mental health, occupational performance and social functioning. After brain injury, self-awareness refers to the ability to accurately recognise changes in one's functioning and understand

how these will affect everyday life and the future. In this context, poor self-awareness may pose a liability for successful recovery or, alternatively, protect individuals from psychological distress. This workshop will initially provide an overview of theoretical models of self-awareness and then consider the relevance of self-awareness to clinical practice in brain injury rehabilitation. Evidence of awareness 'typologies' and research on the impact of self-awareness on functional and psychosocial outcomes will be presented. Approaches to assessing self-awareness will be outlined, followed by a review of interventions, evidence of efficacy and practice standards. Overall, the workshop will highlight how self-awareness of post-injury changes supports individuals to develop a realistic and adaptive sense of self. Yet, there may be circumstances in which targeting the development of self-awareness is neither necessary nor beneficial. Guidelines for managing impaired self-awareness and future research directions will be discussed.

Upon conclusion of this course, learners will be able to:

- Explain the theoretical basis for impaired self-awareness after brain injury
- Describe different approaches for assessing and managing impaired self-awareness
- Explain the relationship between self-awareness and functional and psychosocial outcomes
- Summarize the evidence on the effectiveness of interventions for improving self-awareness
- Apply guidelines to select appropriate approaches for managing impaired self-awareness in practice or other professional contexts

Speaker Biography:

Dr. Tamara Ownsworth is the Research Director of The Hopkins Centre and a Professor in the School of Applied Psychology at Griffith University. After her PhD she was awarded a NHMRC Post-Doctoral Fellowship (2002-2006) in the School of Health and Rehabilitation Sciences at The University of Queensland. She is an Executive Editor of Neuropsychological Rehabilitation and Past President and Fellow of the Australasian Society for the Study of Brain Impairment. Her research interests broadly relate to psychosocial adjustment and rehabilitation of people with acquired brain injury, including traumatic brain injury, brain tumour and stroke. Dr Ownsworth has been a Chief Investigator on 38 grants, totalling approximately \$15.5 million, and has published a sole authored book (Self-identity after brain injury), 5 edited books, 12 book chapters and 137 journal articles. Her achievements in neuropsychology were recently recognised by the International Neuropsychological Society Arthur Benton Mid-Career Award

CE Workshop 04: Machine Learning Applications for Neuropsychology: Rationale, Risk, and Best Practices -- Presenter: Robert Paul

1:00 - 4:00pm Tuesday, 1st February, 2022



Robert Paul, PhD

Executive Director of the Missouri Institute of Mental Health

Professor of Psychological Sciences

University of Missouri, St. Louis

CE Workshop 04:

Machine Learning Applications for Neuropsychology: Rationale, Risk, and Best Practices

Instructional Level: Intermediate

Abstract & Learning Objectives:

Machine learning (ML) applications in patient care research have boomed over the past decade. ML offers some advantages over traditional analytic approaches (e.g., need for a priori hypotheses, multiple comparisons) that are designed for hypothesis confirmation rather than scientific discovery. Studies conducted in the fields of oncology, cardiology and other select disciplines provide empirical support that ML methods can facilitate discovery of novel disease mechanisms, new targets for therapeutic interventions, and the development of predictive models for patient care outcomes. Less is known about the utility of ML to achieve similar outcomes in neuropsychology. ML can be applied to interrogate the complex interplay between biological, psychosocial and cultural factors that underlie the development and expression of cognitive phenotypes, but the relative value of the outcomes will be determined by the specific methodology employed. This workshop will explain the rationale and potential clinical relevance of ML in neuropsychology, as well as key challenges and risks (e.g., introduction of bias, overfitting, ethics), and recommendations for best practices (guidelines and specific methods). Outcomes from studies using ensemble machine learning will be emphasized.

Upon conclusion of this course, learners will be able to:

- Explain the advantages and disadvantages of ML applications for neuropsychology
- Identify the differences between specific ensemble machine learning, support vector machines, and convolutional neural networks and describe the relevance to neuropsychological research
- Synthesize and evaluate the results from neuropsychological studies that employed ML

Speaker Biography:

Dr. Robert Paul serves as Executive Director of the Missouri Institute of Mental Health, Professor of Psychological Sciences at the University of Missouri, St. Louis, and Adjunct at Washington University School of Medicine. Dr. Paul received his Ph.D. in Biological Psychology from the University of Oklahoma Health Science Center and completed his internship and postdoctoral fellowship in Neuropsychology at Brown Medical School. His training in neuropsychology covers the lifespan, from neonates to geriatrics, with Board Certification from the American Board of Professional Psychology-Clinical Neuropsychology. Dr. Paul is a founding member of BRAINnet, an international scientific consortium established in 2003 to identify biotypes of complex brain disorders using highly dimensional data (genetic, neuroimaging, neurobehavioral, etc.). He has edited multiple books and authored/co-authored >320 publications and chapters, most of which have focused on brain structure/function in neuroHIV, cerebrovascular disease, and early life trauma. Dr. Paul's research program has been continuously supported by the National Institutes of Health for more than 20 years. He has a longstanding interest in the application of novel analytic models to guide precision health initiatives, particularly in the context of resource-limited settings. He leads multiple NIH research projects as PI/MPI and serves as Co-I on numerous studies based in the US, Southeast Asia, and Africa. US. Dr. Paul is a member of the NeuroHIV Cure Consortium and he works closely with collaborators at numerous academic medical centers around the world.

CE Workshop 05: Neuroethics in Neuropsychology: Foundations and New Horizons -- Presenter: Laura Y. Cabrera

1:00 - 4:00pm Tuesday, 1st February, 2022



Laura Y. Cabrera, PhD

Associate Professor of Neuroethics

Center for Neural Engineering

Penn State University

CE Workshop 05: Neuroethics in Neuropsychology: Foundations and New Horizons

Level of instruction: Intermediate

Abstract & Learning Objectives:

This workshop addresses neuroethics in neuropsychology in today's world. Knowing when you have crossed the line from an ethical to an unethical situation can at times be difficult to discern. Similarly, it is also challenging to know how to best handle ethical situations. The issues become more salient when we are discussing advances or interventions that deal with the human brain and human behavior. The workshop will introduce neuroethics, and the role it has for scientific disciplines which contribute to the understanding of brain-behavior relationships. This workshop will provide guidance on understanding and identifying the neuroethical issues you face in our practice. The workshop will also discuss a common set of principles and standards upon which neuropsychologists, and others involved in related fields, can draw as part of their professional work and clinical practice, including issues of diversity, equity and inclusion. The second part of the workshop will be more hands-on with discussion of ethics cases in real real-life scenarios and utilize the tools and frameworks discussed in the first part to help you both identify ethical issues and come up with solutions and ways to mitigate these issues in the future.

Upon conclusion of this course, learners will be able to:

- Recognize what neuroethics is, the issues it deals with, and its role in fields related to human brain and behavior
- Describe key steps in the decision-making process to address neuroethical issues
- Apply principles and frameworks in neuroethical issues encountered in neuropsychology

Speaker Biography:

Dr. Laura Y. Cabrera is an Associate Professor of Neuroethics at the Center for Neural Engineering, Department of Engineering Science and Mechanics at Penn State University. She is the Dorothy Foehr Huck and J. Lloyd Huck Chair in Neuroethics, and a Research Associate at the Rock Ethics Institute. She received a BEng in Electrical and Communication Engineering from the Instituto Tecnológico de Estudios Superiores de Monterrey (ITESM) in Mexico City, an MA in Applied Ethics from Linköping University in Sweden, and a PhD in Applied Ethics from Charles Sturt University in Australia. Dr. Cabrera's interests focus on the ethical and societal implications of neurotechnologies used for treatment as well as for enhancement purposes. She has been working on projects at the interface of normative, conceptual and empirical approaches, exploring attitudes and ethical concerns of professionals, patients and members of the public toward brain interventions. Her work has also focused on the ethical and social implications of environmental changes for brain and mental health. Her current work focuses on the responsible use of psychiatric electroceutical interventions, and the timing of deep brain stimulation for Parkinson's Disease. Dr. Cabrera is an honorific member of the Mexican Neuroethics Society, chair of the IEEE Brain Neuroethics Subcommittee, and member of the International Neuroethics Society (INS) Emergent Issues Task Force. Her career

goal is to pursue interdisciplinary neuroethics scholarship, provide active leadership, and train and mentor future leaders in the field.

Be sure to log-in with your Registration Email or your INS Member email to watch the session and obtain CE credit

CE Workshop 06: Metabolomics and Lipidomics: Understanding the Technology and How they Translate to Meaningful Clinical Findings -- Presenter: Stewart Graham

1:00 - 4:00pm Tuesday, 1st February, 2022



Stewart Graham, PhD

Associate Professor

Oakland University William Beaumont School of Medicine

CE Workshop 06: Metabolomics and Lipidomics: Understanding the Technology and How they Translate to Meaningful Clinical Findings

Level of Instruction: Introductory

Abstract & Learning Objectives:

Metabolomics and lipidomics are the last rung of the systems biology cascade and the -omics platforms and provide the greatest insight into any given phenotype. Importantly, metabolites and lipids are the end products of cellular regulatory processes, and their respective levels are regarded as the ultimate response of biological systems to genetic or environmental changes. During this seminar we will cover the basics of metabolomics and lipidomics to

include: definitions, origins, technological requirements, the importance of the design of the experiment, pros and cons of these platforms as compared to other -omics techniques and ultimately, data interpretation and how they can be translated into meaningful clinical findings. We will concentrate on deciphering the “soup” of information which we get from such studies and how they relate to cognition and common neurodegenerative/neurological disorders. Examples of where these techniques have been successfully applied will be presented to cover both biomarker and pathophysiology-based research.

Upon conclusion of this course, learners will be able to:

- Demonstrate competency to discuss metabolomics and lipidomics and how these platforms can be incorporated into your research
- Describe how they can be used as potential biomarkers for the early diagnosis/prediction of disease, with examples
- Explain how these techniques can be used to decipher the etiology and pathophysiology of disease

Speaker Biography:

Dr. Stewart Graham is from Northern Ireland where he completed his B.Sc. (Hons) in Biochemistry, M.Sc. in Bimolecular Structure and Function and Ph.D. in Metabolomics at Queen's University Belfast between 2000 and 2009. Following the completion of his Ph.D., Dr. Graham was employed as a post-doctoral research fellow within the School of Biological Sciences (2009-2011) where he employed his skills as a metabolomicist to identify diagnostic markers of food fraud. In his free time, Dr. Graham actively pursued his own research interests which included the biochemical profiling of transgenic mouse models of Alzheimer's disease, laying the groundwork for funding from the Alzheimer's Research Trust UK to continue his research into neurodegenerative disease. From 2011-2014, Dr. Graham worked as an Alzheimer's Research Trust post-doctoral fellow, where he successfully applied high resolution mass spectrometry and nuclear magnetic resonance for the first ever reported biochemical profiling of post-mortem human brain from Alzheimer's disease sufferers. In 2014, Dr. Graham was appointed as a lecturer at Queen's University Belfast, a position which he held in an honorary role until 2018. In January 2014, he was employed as the Director of Metabolomics Research at Beaumont Health and in 2015 was appointed as assistant editor on the Journal of Alzheimer's disease which he held until 2018. Further, Dr. Graham was appointed Assistant Professor in 2016 at Oakland University-William Beaumont School of Medicine prior to his promotion to Associate Professor in July of 2020. Dr. Graham was also appointed the inaugural John and Marilyn Bishop Foundation Endowed Chair and Director of Alzheimer's Disease Research in September 2020 at Beaumont Health. His current research interests focus predominantly on neurodegenerative disease to include Alzheimer's, Parkinson's and Huntington's disease and has resulted in more than 70 peer-reviewed manuscripts. Dr. Graham's research is currently funded by a variety of agencies including the NIH, the Alzheimer's Association and the Michael J. Fox Foundation (MJFF). He serves regularly on various peer-review groups including NIH study sections, the Alzheimer's Association, and the MJFF in addition to numerous International funding institutions. His overarching goals as a neuroscientist and metabolomicist are not only to identify early diagnostic/predictive biomarkers of the aforementioned diseases but to better understand their underlying etiopathogenesis. By combining his interests in mechanism and diagnostics, his principal goal is to get the “Right drug, to the Right person at the Right time”.

Poster Session 01: Aging

7:30 - 8:30am Wednesday, 2nd February, 2022

1 Neuropsychological Treatment Recommendations Utilizing the MCLHB-DRR Scale for Dementia Prevention

Angelina E Witbeck

Illinois School of Professional Psychology, Chicago, IL, USA

2 Practice Effects and Intra-Individual Variability: Shared Mechanisms in Predicting Cognitive Status

Libby A. DesRuisseaux, Yana Suchy, Sommer R. Thorgusen

University of Utah, Salt Lake City, Utah, USA

3 Investigating the Impact of LGG Probiotic Supplementation on Cognitive Function in Physically Active Older Adults

Victoria Sanborn¹, M. Andrea Azcarate-Peril², John Gunstad¹

¹Kent State University, Kent, Ohio, USA. ²University of North Carolina, Chapel Hill, North Carolina, USA

4 Assessment of Somatic, Cognitive, and Overall Anxiety as Predictors of Cognitive Decline in Community-Dwelling Older Adults

Jessica S Wasserman¹, Roee Holtzer^{1,2}

¹Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, USA. ²Department of Neurology, Albert Einstein College of Medicine, Bronx, NY, USA

5 The Examination of Multiple Modifiable Fitness Variables and Cognition in Healthy Older Adults

Kelly J. Hiersche, Jessica Stark, Alexander N. Hasselbach, Scott M. Hayes

The Ohio State University, Columbus, OH, USA

6 Fatigue across the lifespan in men and women: state vs. trait

Glenn R Wylie^{1,2,3}, Amanda Pra Sisto¹, Helen M Genova⁴, John DeLuca^{1,2}

¹Kessler Foundation, West Orange, NJ, USA. ²Rutgers University, Newark, NJ, USA. ³Department of Veterans' Affairs, East Orange, NJ, USA. ⁴Kessler Foundation, East Hanover, NJ, USA

7 Stability of Cognitive Abilities over Different Stages of Life

Dominique A. Eichelberger^{1,2}, Tanja H. Kakebeeke^{1,3}, Jon A. Caffisch^{1,3}, Oskar G. Jenni^{1,3,2}, Flavia M. Wehrle^{1,3,2}

¹Child Development Center, Department of Pediatrics, University Children's Hospital Zurich, Zurich, Switzerland.

²University of Zurich, Zurich, Switzerland. ³Children's Research Center, University Children's Hospital Zurich, Zurich, Switzerland

8 Trait Mindfulness Mediates the Relationship Between Perceived Stress and Inhibitory Control

Lauren I Moore, Lily Brown, Rebecca K MacAulay

University of Maine, Orono, Maine, USA

9 Gender Differences in Resting Brain Activity and Connectivity in the Cognitively Normal Oldest Old from the McKnight Brain Aging Registry

Che Liu¹, Noam Alperin¹, Lee Sang¹, Bonnie Levin¹, Marti Flothmann¹, Sara Sims², Ted Trouard³, Ronald Cohen⁴, Gene Alexander³, Kristina Visscher², Rundek Tatjana¹

¹University of Miami, Miami, FL, USA. ²University of Alabama, Birmingham, AL, USA. ³University of Arizona, Tucson, AZ, USA. ⁴University of Florida, Gainesville, FL, USA

10 Influence of Age and Apolipoprotein E ε4 status on Regional White Matter Hyperintensity Volume and Cognition in Healthy Aging

Emily J. Van Etten, Pradyumna K. Bharadwaj, Georg A. Hishaw, Theodore P. Trouard, Gene E. Alexander

University of Arizona, Tucson, Arizona, USA

11 Can Video Telematics Provide Ecologically Valid Assessments of Age-Related Driving Changes? A Risky Driving Example

Sophia B Lopes, Kathryn N Devlin, Aleksandar Gonevski, Molly Split, Jocelyn G Ang, Maria T Schultheis

Drexel University, Philadelphia, PA, USA

12 Visit-To-Visit Blood Pressure Variability Predicts Longitudinal Tau Accumulation in Older Adults

Isabel J Sible¹, Daniel A Nation², Alzheimer's Disease Neuroimaging Initiative¹

¹University of Southern California, Los Angeles, CA, USA. ²University of California Irvine, Irvine, CA, USA

13 From Graceful Degradation to Catastrophic Failure: A Neuropsychological Model to Guide the Interpretation of In-Vivo Digital Data to Identify Cognitive Decline in Older Adults

Katherine Hackett, Tania Giovannetti

Temple University, Philadelphia, PA, USA

14 Utilizing a Residual Measure of Cognitive Reserve in Older Adults to Examine Neural Efficiency During Active Walking

Daliah Ross¹, Catherine O'Brien¹, Meltem Izzetoglu², Mark E Wagshul³, Roee Holtzer^{1,4}

¹Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, USA. ²Department of Electrical and Computer Engineering, Villanova University, Villanova, PA, USA. ³Department of Radiology, Albert Einstein College of Medicine, Bronx, NY, USA. ⁴Department of Neurology, Albert Einstein College of Medicine, Bronx, NY, USA

15 Temporal Patterns of Detail Use in Episodic Autobiographical Memory Elaboration Across the Adult Lifespan

Aubrey A Knoff^{1,2}, Jeremy D Wilson¹, Jessica R Andrews-Hanna¹, Matthew D Grilli¹

¹University of Arizona, Tucson, Arizona, USA. ²VA Boston Healthcare System, Boston, Massachusetts, USA

16 Omega-3 Fatty Acids, Cognition, and Brain Volume in Healthy Elderly Adults

Spencer K Loong¹, Shilpy Chowdhury¹, Nicole M Gatto², Samuel Barnes¹, Grace J Lee¹

¹Loma Linda University, Loma Linda, CA, USA. ²Claremont Graduate University, Claremont, CA, USA

17 The Association of Occupational Complexity with Ten-Year Cognitive Change in ACTIVE

Joshua H Owens¹, Richard Jones², Jacob A Fiala¹, Michael Marsiske¹

¹University of Florida, Gainesville, FL, USA. ²Brown, Providence, RI, USA

18 Inhibitory Deficits May Explain Higher Levels of Off-Topic Verbosity Among Older Adults

D. Amber Freeze, Leah N. Smith, Michael J. Persin, Danielle R. Hardesty, Sarah E. Gerrels, Cameron H. Bayer, Logan A. Guillory, Jenna M. Moore, Michael D. Barnett

University of Texas, Tyler, Tx, USA

19 Episodic Memory and Executive Function Are Differentially Affected by Retests but Similarly Affected by Age in a Longitudinal Study of Normally-Aging Older Adults

Matthew D Grilli¹, Cindy B Woolverton², Katelyn S McVeigh¹, Elizabeth L Glisky¹

¹University of Arizona, Tucson, AZ, USA. ²VA Boston Healthcare System, Boston, MA, USA

20 Homocysteine-Related Network Covariance Pattern of Subcortical Gray Matter Volumes in Healthy Aging

Hyun Song^{1,2}, Pradyumna K Bharadwaj^{1,2}, David A Raichlen³, Christian G Habeck⁴, Matthew J Huentelman^{2,5,6}, Georg A Hishaw⁷, Theodore P Trouard^{2,6,8}, Gene E Alexander^{1,2,8,9,10}

¹Department of Psychology, University of Arizona, Tucson, AZ, USA. ²Evelyn F. McKnight Brain Institute, University of Arizona, Tucson, AZ, USA. ³Human and Evolutionary Biology Section, Department of Biological Sciences, University of Southern California, Los Angeles, CA, USA. ⁴Cognitive Neuroscience Division, Department of Neurology and Taub Institute, Columbia University, New York, NY, USA. ⁵Neurogenomics Division, The Translational Genomics Research Institute (TGen), Phoenix, AZ, USA. ⁶Department of Biomedical Engineering, University of Arizona, Tucson, AZ, USA. ⁷Department of Neurology, University of Arizona, Tucson, AZ, USA. ⁸Arizona Alzheimer's Consortium, Phoenix, AZ, USA. ⁹Department of Psychiatry, University of Arizona, Tucson, AZ, USA. ¹⁰Neuroscience and Physiological Sciences Graduate Interdisciplinary Program, University of Arizona, Tucson, AZ, USA

21 Association of Age with Gray to White Matter Contrast Differences is Mediated by White Matter Integrity in Healthy Older Adults

Samantha G Smith, Pradyumna K Bharadwaj, Emily J Van Etten, Georg A Hishaw, Theodore P Trouard, Gene E Alexander

University of Arizona, Tucson, AZ, USA

22 Executive Functioning Impacts Nature of Subjective Memory Complaint Endorsement Indicating Broader Cognitive Concerns in Older Adults

Sarah A Evans, Riya Bhasin, Henry Licht, Elizabeth R Paitel, Tristan A Gregg, Christian B Otteman, Kristy A Nielson

Marquette University, Milwaukee, WI, USA

23 The Mediating Role of SES on the Relationship between Pregnancy History and Later Life Cognition

Averi J Giudicessi, Ursula G Saelzler, Andrea Paipilla, Carlos E Araujo Menendez, Aladdin H Shadyab, Erin E Sundermann, Sarah J Banks, Matthew S Panizzon

University of California San Diego, San Diego, CA, USA

24 Recent Cannabis Use is Associated with Auditory Attention and Verbal Memory Process Scores in Older Adults

Ashley M Master¹, Emily D Richardson¹, Rachel E Thayer²

¹University of Colorado Boulder, Boulder, CO, USA. ²University of Colorado Colorado Springs, Colorado Springs, CO, USA

25 Longitudinal Trajectories of Executive Function and Processing Speed/Attention in Older Adults in Relation to Vascular Risk Factors

Stephanie M Simone¹, Rachel Mis¹, Catherine C Price², Thomas F Floyd³, Tania Giovannetti¹

¹Temple University, Philadelphia, PA, USA. ²University of Florida, Gainesville, FL, USA. ³University of Texas Southwestern, Dallas, TX, USA

26 White matter microstructure is associated with serum clusterin and everyday functioning in a sample of older adults without dementia

Alexandra L. Clark¹, Seraphina K. Solders², Kelsey R. Thomas^{3,2}, Katherine J. Bangen^{3,2}

¹University of Texas at Austin, Austin, TX, USA. ²UC San Diego, La Jolla, CA, USA. ³San Diego VA Healthcare System, La Jolla, CA, USA

27 Waist-to-Height Ratio: A Better Obesity Measurement to Predict Cognition in Older Adults?

Allison C Moll, John L Woodard

Wayne State University, Detroit, MI, USA

28 Associations Between Cardiovascular Risk, White Matter, and Medication Predictors on Longitudinal Cognitive Change in the National Alzheimer's Coordinating Center Cohort

Lindsay J. Rotblatt, Jared J. Tanner, Ronald A. Cohen, Ann L. Horgas, Michael Marsiske

University of Florida, Gainesville, FL, USA

29 Cortical Thickness in Older Adults: Sex Differences and Behavioral Consequences

Abbey M Hamlin, Dalia Khammash, Saachi Mittal, Ethan C Nelson, Thad A Polk

University of Michigan, Ann Arbor, MI, USA

30 The Association Between Head Motion During Functional Magnetic Resonance Imaging and Executive Functioning in Older Adults

Hanna K Hausman¹, Cheshire Hardcastle¹, Jessica N Kraft¹, Nicole D Evangelista¹, Emanuel M Boutzoukas¹, Andrew O'Shea¹, Alejandro Albizu¹, Kailey Langer¹, Emily J Van Etten², Pradyumna K Bharadwaj², Hyun Song², Samantha G Smith², Eric Porges¹, Georg A Hishaw², Samuel Wu¹, Steven DeKosky¹, Gene E Alexander², Michael Marsiske¹, Ronald Cohen¹, Adam J Woods¹

¹University of Florida, Gainesville, FL, USA. ²University of Arizona, Tucson, AZ, USA

31 Does Neurocognition Contribute to Age-Related Deficits in Navigating Electronic Patient Health Portals?

Anastasia Matchanova

University of Houston, Houston, TX, USA

32 Baseline Differences in Driving Frequency as a Predictor of Cognitive Decline

Luke R Miller, Christopher Reed, Matthew Calamia

Louisiana State University, Baton Rouge, Louisiana, USA

33 Health Literacy in Older Adults: Relationship to Cognitive Function and the Healthy Aging Activity Engagement Scale

Carolyn R. Pagán, Samina Rahman, Maureen Schmitter Edgecombe

Washington State University, Pullman, WA, USA

34 The Effects of Age on Relationships Between Neuropsychological Performance and Cerebral Oxygen Metabolism and Blood Flow

Dema Abdelkarim¹, Yuguang Zhao¹, Monroe Turner¹, Hanzhang Lu², Bart Rypma¹

¹UT Dallas, Dallas, TX, USA. ²Johns Hopkins University, Baltimore, MD, USA

35 Openness to Experience and Activity Engagement: Protective Factors Against Longitudinal Decline in Attention/Executive Functions and Verbal Memory in Older Adults

Giulia Mercuri, Roee Holtzer

Ferkauf Graduate School of Psychology, Yeshiva University, New York, NY, USA

36 Examining Well-being as a Moderator in the Development of Cognitive Decline in Older Adults with High Harm Avoidance

Christopher Reed M.S., Luke Miller B.S., Matthew Calamia Ph.D.

Louisiana State University, Baton Rouge, Louisiana, USA

37 BDNF Polymorphism Amplifies the Negative Effect of Depression on Memory in Normotensive but Not Hypertensive Older Adults

Mia Delgadillo^{1,2}, Peter Louras^{1,2}, Aidan Boese^{1,2}, Nesha Harper^{1,2}, Megan Frank¹, J. Kaci Fairchild^{2,3}

¹Palo Alto University, Palo Alto, CA, USA. ²Sierra Pacific MIRECC at VA Palo Alto Health Care System, Palo Alto, CA, USA. ³Stanford University School of Medicine, Stanford, CA, USA

38 Childhood SES and Age-Related Cognition in Racially/Ethnically Diverse Older Adults

Mariana Tafader^{1,2}, Indira C Turney¹, Justina Avila-Rieger¹, Miguel A Rentería¹, Kacie Deters³, Ketlyne Sol⁴, Shellie-Anne Levy⁵, Mirella Diaz-Santos⁶, Franchesca Arias⁷, Carmen Carrion⁸, Tanisha G. Hill-Jarrett⁹, Luis Medina¹⁰, Sarah Tom¹, Rebecca Melrose⁶, Richard Jones¹¹, Nicole Schupf¹, Richard Mayeux¹, Adam M Brickman¹, Jennifer J Manly¹

¹Columbia University Medical Center, New York, NY, USA. ²Lafayette College, Easton, PA, USA. ³University of California San Diego, San Diego, CA, USA. ⁴University of Michigan, Ann Arbor, MI, USA. ⁵University of Florida, Tampa, FL, USA. ⁶University of California, Los Angeles, Los Angeles, CA, USA. ⁷Beth Israel Deaconess Medical Center, Boston, MA, USA. ⁸Yale University School of Medicine, New Haven, CT, USA. ⁹University of South Florida, Tampa, FL, USA. ¹⁰University of Houston, Houston, TX, USA. ¹¹Brown University, Providence, RI, USA

39 Frontal gamma-aminobutyric acid concentration associated with age, but not cognitive performance in healthy older adults

Emanuel M Boutzoukas, Jessica N Kraft, Andrew O'Shea, Alejandro Albizu, Nicole D Evangelista, Cheshire Hardcastle, Hanna K Hausman, Eric Porges, Steven DeKosky, Samuel Wu, Michael Marsiske, Adam J. Woods
University of Florida, Gainesville, FL, USA

40 A New Statistical Method in Tracing the Trajectory of Cognitive Functioning Throughout Lifespan: A Time-Varying Effect Model

Shayne S.-H. Lin

University of Alabama, Tuscaloosa, AL, USA

41 Loneliness, Time Spent Alone, and Executive Function Among Older Adults

Katelyn S McVeigh¹, Matthias R Mehl¹, Angelina J Polsinelli², Suzanne A Moseley³, Elizabeth L Glisky¹, Matthew D Grilli¹

¹University of Arizona, Tucson, AZ, USA. ²Department of Neurology, Indiana University School of Medicine, Indianapolis, IN, USA. ³Minnesota Epilepsy Group, St. Paul, MN, USA

42 APOE Modifies Relationships Between Perceived Stress and Prefrontal Cerebral Blood Flow

Chelsea C Hays¹, Alan N Simmons¹, Michael J Lyons², Carol E Franz³, William S Kremen³

¹VA San Diego, San Diego, CA, USA. ²Boston University, Boston, MA, USA. ³UC San Diego, La Jolla, CA, USA

43 Sleep Quality and Measures of Processing Speed in Young Adults

Lindsey G. Lagerstrom*, Jennifer L Thompson*, Taylor M. McMillan, Fayeza S. Ahmed

University of Maine, Orono, Maine, USA

44 Compensatory Strategy Use in a Diverse Older Adult Sample: The Role of Aging Beliefs and Subjective Cognitive Decline

Alyssa N De Vito^{1,2}, Stephen Correia^{1,2}, Maria Theresa Coutinho², Athene KW Lee^{1,2}

¹Butler Hospital, Providence, RI, USA. ²Brown University, Providence, RI, USA

45 Age Differences in the Effect of Depressive Symptoms and Objectively Measured Physical Activity on Immediate Memory in a Predominantly Black Sample

Lex R Minto¹, Rebecca Ellis¹, Christina Zanella¹, Katie E Cherry², Robert H Wood³, Vonetta M Dotson¹

¹Georgia State University, Atlanta, GA, USA. ²Louisiana State University, Baton Rouge, LA, USA. ³Boise State University, Boise, ID, USA

46 Association of Gray Matter Network Covariance Related to Cerebrospinal Fluid ptau₁₈₁/A β ₄₂ Biomarker Clusters of Alzheimer's Disease Risk with Cognitive Function in Healthy Older Adults

Pradyumna K Bharadwaj^{1,2}, Jessica R Andrews-Hanna^{1,2,3}, Gene E Alexander^{1,2,4,5,6}

¹Department of Psychology, The University of Arizona, Tucson, Arizona, USA. ²Evelyn F. McKnight Brain Institute, The University of Arizona, Tucson, Arizona, USA. ³Cognitive Science, The University of Arizona, Tucson, Arizona, USA. ⁴Department of Psychiatry, The University of Arizona, Tucson, Arizona, USA. ⁵Neuroscience and Physiological Sciences Graduate Interdisciplinary Programs, The University of Arizona, Tucson, Arizona, USA. ⁶Arizona Alzheimer's Consortium, Phoenix, Arizona, USA

47 Racial Differences in Cardiovascular Risk and Executive Function are not Associated with White Matter Hyperintensities

Talia L Robinson, Marissa A Gogniat, Kharine R Jean, Lloyd Stephen Miller

University of Georgia, Athens, GA, USA

48 Time of Testing Moderates the Relationship Between Daytime Sleepiness and Learning/Memory Performance in Older Adults

Cardinal Do, Julie A Suhr

Ohio University, Athens, Ohio, USA

49 Neuropsychological Correlates of Older Adult Financial Vulnerability During the COVID Pandemic

S. Duke Han^{1,2}, Jenna Axelrod³, Annie Nguyen¹, Gali Weissberger⁴, Laura Mosqueda¹

¹Keck School of Medicine of USC, Alhambra, CA, USA. ²University of Southern California, Los Angeles, CA, USA. ³NorthShore University Health System, Skokie, IL, USA. ⁴Bar-Ilan University, Ramat Gan, Israel

50 Selective Vulnerability of Medial Temporal Regions to Blood Pressure Variability and Cerebral Hypoperfusion in Older Adults

Isabel J Sible¹, Belinda Yew¹, Shubir Dutt¹, Yanrong Li², Anna E Blanken¹, Jung Yun Jang², Jean K Ho², Anisa J Marshall¹, Arunima Kapoor², Aimée Gaubert², Katherine J Bangen^{3,4}, Virginia E Sturm⁵, Xingfeng Shao¹, Danny J Wang¹, Daniel A Nation²

¹University of Southern California, Los Angeles, CA, USA. ²University of California, Irvine, Irvine, CA, USA. ³Veteran Affairs San Diego Healthcare System, San Diego, CA, USA. ⁴University of California, San Diego, San Diego, CA, USA. ⁵University of California, San Francisco, San Francisco, CA, USA

51 System and Network Segregation relates to Cognition in the Healthy Oldest-Old

Sara A Sims¹, Mary Faulkner¹, Paul Stewart¹, Eric C Porges², Noam Alperin³, Bonnie E Levin³, Tanja Rundek³, Ronald A Cohen², Gene E Alexander⁴, Kristina M Visscher¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²University of Florida, Gainesville, FL, USA. ³University of Miami, Miami, FL, USA. ⁴University of Arizona, Tucson, AZ, USA

52 The Influence of Mood State on Older Adults' Executive Functioning in the Real World

Catherine W. Luna, Lourdes Romero, Katelyn Brown, Maureen Schmitter-Edgecombe

Washington State University, Pullman, WA, USA

53 The Influence of Processing Speed, Attention, and Inhibition on Texas Functional Living Scale Performance

Scott M Roye, John F Linck, Jordan R Hoffmeister, Christopher T Copeland

University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA

54 Getting to the Point: Off-Topic Verbosity and Sustained Attention among Young Adults and Older Adults

Sarah E Gerrels¹, Jessica H Helphrey², Carmen Chek¹, Emma A Barr¹, Diamond C Lee¹, Dolores A Freeze¹, Logan A Guillory¹, Allyson M Coldiron¹, Michael D Barnett¹

¹University of Texas at Tyler, Tyler, Texas, USA. ²University of Texas Southwestern Medical School, Dallas, Texas, USA

55 Relationship Between Air Quality, Physical Activity, and Cognitive Decline

Emily C Hicks, Stuart Hall

University of Montana, Missoula, MT, USA

56 Sex Differences in Regional Cerebellar Volume Across the Adult Lifespan: A Comparison of Linear and Quadratic Relationships

Tracey H Hicks, Hannah K Ballard, Jessica Bernard

Texas A&M University, College Station, TX, USA

57 Neural Efficiency & Dual-Task Walking Performance in Older Adult Musicians

Sydney Jacobs¹, Roee Holtzer^{1,2}

¹Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, USA. ²Albert Einstein College of Medicine, Bronx, NY, USA

58 The Effect of Gender on Older Adults' Perceived Memory Abilities

Phoebe S Bean, Stuart Hall, Cali Caughie

University of Montana, Missoula, MT, USA

59 Real-World Goal Setting and Follow Through in Young and Older Adults

Lauren E Cruz¹, Christopher X Griffith¹, Jessica R Andrews-Hanna^{2,3,4}, Matthew D Grilli^{1,2,4,5}

¹University of Arizona, Tucson, Arizona, USA. ²Psychology Department, University of Arizona, Tucson, Arizona, USA. ³Cognitive Science Department, University of Arizona, Tucson, Arizona, USA. ⁴Evelyn F. McKnight Brain Institute, Tucson, Arizona, USA. ⁵Neurology Department, Tucson, Arizona, USA

60 Do Age-Related Brain Activation Differences Survive Controlling for Performance? Comparison Using a Working Memory Paradigm

Emily T Sturm, Colton Castro, Andrea Mendez-Colmenares, John Duffy, Agnieszka Z Burzynska, Michael L Thomas

Colorado State University, Fort Collins, CO, USA

61 Relationship of High Blood Pressure and Hypertension Management with MRI Markers of Cerebrovascular Disease

Chelsey C. Nwadike, Indira C. Turney, Justina F. Avila-Rieger, Miguel Arce, Kay C Igwe, Krystal K Laing, Erica Amarante, Nicole Schupf, Richard P. Mayeux, Adam M. Brickman, Jennifer J. Manly

Columbia University, New York, New York, USA

62 Stroke Risk Profile, TNF-a, and Intra-Individual Variability in Processed EEG During Knee Replacement Surgery Contribute to Pre- Post-Operative Cognitive Change

Catherine Dion, Erin M Formanski, Jared J Tanner, Karen McFarland, Catherine C. Price

University of Florida, Gainesville, FL, USA

63 The Impact of Working Memory and Impulsivity on Eating Behaviors in Older Adults

Eliza Morgan¹, Nesha Harper¹, Mia Delgadillo¹, J. Kaci Fairchild^{1,2,3}

¹Palo Alto University, Palo Alto, CA, USA. ²Sierra Pacific Mental Illness Research Education and Clinical Center (MIRECC), Veterans Affairs Palo Alto Health Care System, Palo Alto, CA, USA. ³Department of Psychiatry & Behavioral Sciences, Stanford University School of Medicine, Stanford, CA, USA

64 Associations Between Socioeconomic Mobility, Biological Aging, and Memory Trajectories

Vanessa R. Weir^{1,2,3}, Justina F. Avila^{1,2,3}, Gloria Huei-Jong Graf^{4,5}, Daniel W. Belsky^{4,5}, Jennifer J. Manly^{1,2,3}

¹Taub Institute for Research on Alzheimer's Disease and the Aging Brain, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ²Gertrude H. Sergievsky Center, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ³Department of Neurology, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ⁴Department of Epidemiology, Columbia University Mailman School of Public Health, New York, NY, USA. ⁵Julius Center for Health Sciences and Primary Care, Department of Epidemiology, New York, NY, USA

***LIVE* Student Liaison Committee (SLC) Student Welcome**

7:30 - 8:30am Wednesday, 2nd February, 2022

CE Workshop 07: Sexual and Gender Minority Populations and Risk for Alzheimer's Disease and Related Dementias -- Presenter: Whitney Wharton

8:00 - 9:30am Wednesday, 2nd February, 2022



Whitney Wharton, PhD

Associate Professor

Emory University

CE Workshop 07: Sexual and Gender Minority Populations and Risk for Alzheimer's Disease and Related Dementias

Instructional Level: Introductory

Abstract & Learning Objectives:

By 2030, there will be nearly six million sexual and gender minority (SGM) older adults aged 50 and older in the U.S. who identify as lesbian, gay, bisexual, transgender, and/or queer. This number will more than double by 2050. Approximately 350,000 SGM older adults in the U.S. currently are living with Alzheimer's disease and related dementias (ADRD), with projections nearing one million by 2030. SGM older adults experience greater health disparities than their heterosexual counterparts. Several recent studies have shown a higher prevalence of risk factors for ADRD, including higher rates of cardiovascular disease, hypertension, diabetes, depression or frequent mental distress, and subjective cognitive decline. In addition, SGM older adults are less likely to have informal caregiving support and for those with caregivers, their caregivers often lack access to inclusive services and resources. In addition to healthcare access and trust, research participation from SGM older adults is extremely limited and the sparse research suggests that SGM older adults are interested in being engaged in research, but concerns regarding the lack of inclusive services and mistrust need to be addressed to improve participation in ADRD research, including clinical trials and intervention research studies. Here we discuss the aforementioned health disparities and research participation barriers experienced by SGM adults, as well as new initiatives to combat these barriers.

Upon conclusion of this course, learners will be able to:

- Summarize LGBTQ aging and caregiver gaps in healthcare
- Describe the gaps in research regarding aging and caregiving pertaining to LGBTQ community members
- Discuss research designed to address knowledge gaps in LGBTQ aging and caregiving, as well as information about how investigators and Centers can collect these data and take part in the registry to ensure inclusion of LGBTQ individuals

Speaker Biography:

Dr. Whitney Wharton is Associate Professor at Emory University. She develops lifestyle and pharmaceutical interventions in individuals who are at risk for Alzheimer's disease (AD). Her primary area of research is 1) to determine the mechanistic underpinnings of disease risk in individuals most likely to become afflicted with AD and 2) create targeted interventions that are widely available, affordable and produce clinically meaningful outcomes to mitigate risk for AD and promote healthy aging. While her research primarily involves biomarker outcomes, she is particularly interested in how biomarkers in the brain and the body may be driven by biological, social, cultural and structural determinants of health. She is currently conducting a RCT focused on AD caregiver education, which is

modifying a current program (The Savvy Caregiver) to make this intervention applicable to the LGBTQ community. She was also recently awarded a NIA R24 award, which will increase engagement, recruitment, and retention of sexual and gender minority individuals (SGM) in clinical aging related research using a community based participatory approach, data collection from in person activities, online data collection and the implementation of a national research registry of older SGM self identified individuals and SGM ADRD caregivers.

CE Workshop 08: Harnessing the Potential of Real-Time fMRI for Neurorehabilitation -- Presenter: Stephen LaConte

8:00 - 9:30am Wednesday, 2nd February, 2022



Stephen LaConte, PhD

Associate Professor

Fralin Biomedical Research Institute and

Department of Biomedical Engineering and Mechanics

Virginia Tech

CE Workshop 08: Harnessing the potential of real time-time fMRI for neurorehabilitation

Level of Instruction: Introductory

Abstract & Learning Objectives:

This workshop will describe how functional magnetic resonance images can be analyzed in real-time (rtfMRI) to enable closed-loop experiments and neurofeedback. Dr. LaConte's lab has developed machine learning-based rtfMRI that continuously tracks a subject's sensory/behavioral/psychological states during ongoing brain imaging. This

approach will be compared and contrasted with rtfMRI studies that track activity in functionally localized brain regions. In both cases the lecture will present experiments that highlight rtfMRI's potential for basic science discovery as well as neurofeedback-based therapy. Finally, drawing from the speaker's research, the future outlook in terms of both challenges and technological opportunities will be presented. Briefly, the challenges will be discussed in terms of limitations of neuroimaging, neuropsychological testing, and their intersection. The opportunities include new designs that incorporate resting state networks such as the default mode network as well as technological advances in both instrumentation and data analysis. These technology advances may facilitate porting fMRI's advantages to cheaper and more flexible platforms. The technical level of the lecture is intended to be highly accessible to those with and without neuroimaging and fMRI expertise.

Upon conclusion of this course, learners will be able to:

- Summarize basic tradeoffs between fMRI and other neurorecording technologies
- Summarize successful applications of real-time fMRI neurofeedback
- Critique differences between whole-brain and functionally defined region-of-interest based real-time fMRI
- Assess new technologies that promise to translate existing real-time fMRI methods to more flexible and cheaper approaches
- Critique the existing literature and potential for real-time fMRI to enable rehabilitation and therapy

Speaker Biography:

Dr. Stephen LaConte is a member of the Fralin Biomedical Research Institute at VTC and an Associate Professor in the Department of Biomedical Engineering and Mechanics at Virginia Tech. He received his BSEE in 1996 from the University of Denver and his PhD in Biomedical Engineering from the University of Minnesota in 2002. He has co-authored over 50 journal articles in numerous areas of MRI-based neuroimaging. In recognition of his scientific contributions Dr. LaConte was selected as a Kavli Fellow of the US National Academy of Sciences, Chinese-American Frontiers of Science for his work in real-time fMRI-based brain-computer-interfaces. In addition, he is a recipient of the Virginia Tech College of Engineering Dean's Award for Outstanding New Assistant Professor. His current research is focused on using supervised learning techniques to develop real-time functional magnetic resonance imaging as a tool for performing adaptive experiments as well as for neurofeedback-based rehabilitation and therapy. His current areas of funded research include traumatic brain injury, alcohol use disorder, Optically-Pumped Magnetoencephalography and real-time fMRI.

Be sure to log-in with your Registration Email or your INS Member email to watch the session and obtain CE credit

Symposium 14: Cognitive Health Promotion Across the Lifespan: A Growing Practice Opportunity for Neuropsychologists

8:00 - 9:30am Wednesday, 2nd February, 2022

25 Cognitive Health Promotion Across the Lifespan: A Growing Practice Opportunity for Neuropsychologists

Chair

Christine Ghilain

Private Practice, Parsippany, USA

Discussant

Christine Ghilain

Private Practice, Parsippany, USA

Karen Postal

Harvard Medical School, Boston, USA

Michelle Braun

Ascension Wisconsin All Saints Hospital, Racine, USA

678 Maximizing Brain Health in Adult and Geriatric Populations

Christine Ghilain¹, Karen Postal², Michelle Braun³

¹Private Practice, Parsippany, New Jersey, USA. ²Harvard Medical School, Boston, Massachusetts, USA. ³Ascension All Saints Hospital, Racine, Wisconsin, USA

680 Starting the Conversation: How to Discuss Health-Related Behaviors with Clients

Christine Ghilain¹, Karen Postal², Michelle Braun³

¹Private Practice, Parsippany, New Jersey, USA. ²Harvard Medical School, Boston, Massachusetts, USA. ³Ascension All Saints Hospital, Racine, Wisconsin, USA

683 Starting Young: Approaching the Topic of Brain Health with Pediatric Populations

Christine Ghilain¹, Karen Postal², Michelle Braun³

¹Private Practice, Parsippany, New Jersey, USA. ²Harvard Medical School, Boston, Massachusetts, USA. ³Ascension All Saints Hospital, Racine, Wisconsin, USA

Symposium 15: National Neuropsychology Network: Progress in Collaborative Assessment, Diagnostics, and Psychometrics

8:00 - 9:30am Wednesday, 2nd February, 2022

19 National Neuropsychology Network: Progress in Collaborative Assessment, Diagnostics, and Psychometrics

Chair

Robert Bilder

UCLA, Los Angeles, USA

Discussant

Russell Bauer

University of Florida, Gainesville, USA

psychometrics

757 Advancements and challenges in the clinical application of the Structured History Protocol for Neuropsychology

Lucia Cavanagh

UCLA Semel Institute, Los Angeles, CA, USA

776 Optimizing Collaborative Neuropsychology with a System for Acquisition of Item-Level Observations and Responses (SAILOR): Update from the National Neuropsychological Network

Laura Glass Umfleet

Medical College of Wisconsin, Milwaukee, WI, USA

603 Improved Identification of Psychiatric Comorbidities in Patients with Primary Neurologic Diagnoses: Role of the National Neuropsychology Network

David W. Loring, Kelsey C. Hewitt, Daniel L. Drane

Emory University, Atlanta, GA, USA

630 Doing More with Less: Test- and Battery-Level Psychometric Results from the National Neuropsychology Network (NNN) Data Base

Robert M Bilder¹, Steven P Reise¹, Russell M Bauer², Daniel Drane³, David W Loring³, Laura Umfleet⁴, Dustin Wahlstrom⁵

¹UCLA, Los Angeles, CA, USA. ²University of Florida, Gainesville, FL, USA. ³Emory University, Atlanta, GA, USA.

⁴Medical College of Wisconsin, Milwaukee, WI, USA. ⁵Pearson Assessments, Austin, TX, USA

988 Discussion - Symposium 15: National Neuropsychology Network: Progress in Collaborative Assessment, Diagnostics, and Psychometrics

Russell Bauer

University of Florida, Gainesville, FL, USA

Poster Session 02: Dementia | Technology

8:30 - 9:30am Wednesday, 2nd February, 2022

1 Handicraft Art Leisure Activities and Cognitive Reserve

Genna M Mashinchi, Craig P McFarland, Stuart Hall

University of Montana, Missoula, MT, USA

2 Association between pulse pressure and structural neuroimaging markers related to Alzheimer's disease in Down syndrome

Batool Rizvi¹, Patrick J. Lao², Mithra Sathishkumar¹, Krystal K. Laing², Kay C. Igwe², Liv McMillan¹, David B. Keator¹, Eric Doran¹, Christy Hom¹, Dana Nguyen¹, H. Diana Rosas³, Florence Lai³, Nicole Schupf², Wayne Silverman¹, Ira T. Lott¹, Mark Mapstone¹, Elizabeth Head¹, Adam M. Brickman², Michael A. Yassa¹

¹University of California, Irvine, Irvine, CA, USA. ²Columbia University, New York, NY, USA. ³Harvard Medical School, Massachusetts General Hospital, Boston, MA, USA

3 Distress About Neuropsychiatric Symptoms is Associated With Caregiver Cognition

Victoria Obeng-Adjei, Anna J Vanmeter, Dominik Mischkowski, Julie A Suhr

Ohio University, Athens, Ohio, USA

4 Phenotypic Subtypes of Progressive Dysexecutive Syndrome due to Alzheimer's Disease: a Series of Clinical Cases

Nick Corriveau-Lecavalier

Mayo Clinic, Rochester, Minnesota, USA

5 Relationships among Factors of Burden and Positive Aspects of Caregiving in Dementia Caregivers

Karlee Patrick¹, John Gunstad¹, Natalie Kayani², Jennifer Drost², Mary Beth Spitznagel¹

¹Kent State University, Kent, OH, USA. ²Summa Akron City Hospital Center for Senior Health, Akron, OH, USA

6 Alzheimer's Disease CSF Biomarkers Associate with Item-Level Semantic Fluency Performance in Older Adults Without Dementia

Jet MJ Vonk¹, Joseph L Austerweil², Kimberly D Mueller², Jeffrey C Zemla³

¹Columbia University, New York, NY, USA. ²University of Wisconsin-Madison, Madison, WI, USA. ³Syracuse University, Syracuse, NY, USA

7 Everyday Cognition (ECog) in a Clinical Context: Correlation with Clinical Tools and Concordance with Team Consensus Diagnosis

John B O'Hara¹, Danielle Kaplan^{2,1}, Kristin E Slyne^{1,3}

¹Institute of Living/Hartford Hospital, Hartford, CT, USA. ²University of Hartford, Hartford, CT, USA. ³University of Connecticut School of Medicine, Farmington, CT, USA

8 The Role of Caregiver Self-Mastery in the Relationship Between Caregiver Burden and Caregiver Communications

John T Martin¹, John Gunstad¹, Natalie Kayani², Jennifer Drost², Mary Beth Spitznagel¹

¹Kent State University, Kent, Ohio, USA. ²Summa Health System, Akron, Ohio, USA

9 Metacognition and Everyday Functioning in Mild Cognitive Impairment and Alzheimer's Disease

Ella Severson¹, Tanner O'Brien², Winter Olmos², Loren Alving¹, Barbara Price¹, John Tran¹, Ellen Woo^{1,2}

¹UCSF, Fresno, CA, USA. ²CSU Fresno, Fresno, CA, USA

10 Education is Related to Cognitive Profiles at the Time of Alzheimer's Disease Diagnosis

Zhiwei Zheng¹, Megan S Barker¹, Ruhee A Patel¹, Lawrence S Honig¹, Jasmine Carcamo¹, Sandra J Rizer¹, Stacy L Andersen², Sanford H Auerbach², Lisa N Ramdas², Mary F Feitosa³, Anatoliy I Yashin⁴, Alexander M Kulminski⁴, Stephanie Cosentino¹

¹Columbia University Irving Medical Center, New York, NY, USA. ²Boston University, Boston, MA, USA. ³Washington University in St. Louis, St. Louis, MO, USA. ⁴Duke University, Durham, NC, USA

11 Longitudinal Intraindividual Cognitive Variability is Associated with Reduction in Regional Cerebral Blood Flow among Alzheimer's Disease Biomarker-Positive Older Adults

Sophia L. Holmqvist¹, Kelsey R. Thomas^{1,2}, Emily C. Edmonds^{1,2}, Amanda Calcetas², Lauren Edwards³, Maria Bordyug², Katherine J. Bangen^{1,2}

¹Research Service, VA San Diego Healthcare System, San Diego, CA, USA. ²Department of Psychiatry, University of California, San Diego, La Jolla, CA, USA. ³San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA

12 Exploring White Matter Hyperintensities & Alzheimer's Disease Biomarker Relationships Across Racial Groups

Chinkuli C Munkombwe^{1,2,3}, Kay C Igwe^{4,5}, Maria B Misiura^{2,3}, Whitney Warton⁶, William Hu⁷, Danielle Werble⁶, Henrik Zetterberg^{8,9,10,11}, Adam Brickman^{4,5,12}, Vonetta Dotson²

¹Neuroscience Institute, Georgia State University, Atlanta, GA, USA. ²Psychology Department, Georgia State University, Atlanta, GA, USA. ³Center for Translational Research in Neuroimaging & Data Science, Atlanta, GA, USA. ⁴Department of Neurology, Vagelos College of Physicians and Surgeons, New York, NY, USA. ⁵Taub Institute for Research on Alzheimer's Disease and the Aging Brain, New York, NY, USA. ⁶Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA, USA. ⁷Cognitive Neurology, Rutgers University, New Brunswick, NJ, USA. ⁸UK Dementia Research Institute at UCL, London, United Kingdom. ⁹Department of Neurodegenerative Disease, UCL Institute of Neurology, London, United Kingdom. ¹⁰Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, the Sahlgrenska Academy at the University of Gothenburg, Mölndal, Sweden. ¹¹Clinical Neurochemistry Laboratory, Sahlgrenska University Hospital, Mölndal, Sweden. ¹²Gertrude H. Sergievsky Center, Columbia University College of Physicians and Surgeons, New York, NY, USA

13 Worse Working Memory is Associated with Greater Brain Pathology Burden in Autosomal Dominant Alzheimer's Disease

Joshua T Fox-Fuller^{1,2}, Celina F Pluim^{1,2}, Jairo E Martinez², Ana Baena³, Clara Vila-Castelar², Justin S Sanchez^{2,4}, Francisco Lopera³, Alice Cronin-Golomb¹, Yakeel T Quiroz^{2,3,5}

¹Boston University, Department of Psychological and Brain Sciences, Boston, MA, USA. ²Massachusetts General Hospital, Department of Psychiatry, Boston, MA, USA. ³Universidad de Antioquia, Grupo de Neurociencias, Medellín, Colombia. ⁴Massachusetts General Hospital, Department of Radiology, Boston, MA, USA. ⁵Massachusetts General Hospital, Department of Neurology, Boston, MA, USA

14 Associations of Category Fluency Clustering and Switching Performance with in vivo Brain Pathology in Autosomal Dominant Alzheimer's Disease

Defne Yucebas¹, Joshua T Fox-Fuller^{1,2}, Alex L Badillo Cabrera², Ana Baena³, Victoria Tirado³, Kathryn V Papp⁴, Clara Vila-Castelar², Liliana Ramirez Gomez⁵, Alice Cronin-Golomb¹, Francisco Lopera³, Yakeel T Quiroz^{2,3,5}

¹Boston University, Department of Psychological and Brain Sciences, Boston, MA, USA. ²Department of Psychiatry, Massachusetts General Hospital, Boston, MA, USA. ³Grupo de Neurociencias, Universidad de Antioquia, Medellín, Colombia. ⁴Department of Psychiatry, Brigham and Women's Hospital, Boston, MA, USA. ⁵Department of Neurology, Massachusetts General Hospital, Boston, MA, USA

15 Investigation of Age- and Sex-Normed Hippocampus and Entorhinal Volumes as Predictors of Subjectively Perceived Decline

Brianna Raskin, Arabella A Johnson, Howard J Aizenstein, Andrea M Weinstein, Akiko Mizuno
University of Pittsburgh, Pittsburgh, Pennsylvania, USA

16 Comparison of a Clinical Neuropsychological Test Battery to Amyloid Biomarker Status in Older Patients With Cognitive Impairment

Zachary T Gemelli¹, Laura Elizabeth Korthauer^{2,1}, Deirdre O'Shea^{1,2}, Brian R Ott², Jennifer D Davis^{1,2}

¹Rhode Island Hospital, Providence, RI, USA. ²Warren Alpert Medical School of Brown University, Providence, RI, USA

17 A Novel Computer Adaptive Word List Memory Test Optimized for Remote Assessment: Associations with Alzheimer's Disease Biomarkers of Neurodegeneration in Non-Demented Older Women

Aimee J Karstens¹, John L Stricker¹, Jennifer Geske¹, Jason Hassenstab², Julie A Fields¹, Kejal Kantarci¹, Michelle M Mielke¹, Nikki H Stricker¹

¹Mayo Clinic, Rochester, MN, USA. ²Washington University, St. Louis, MO, USA

18 The Sequencing Sign: A Potential Method to Identify Patients with Alzheimer's Disease

Hilary Clark^{1,2}, Lee Isaac¹, Chrystal Fullen¹, Jennifer Gess¹, Jennifer Kleiner¹

¹University of Arkansas for Medical Sciences, Little Rock, AR, USA. ²Wichita State University, Wichita, KS, USA

19 Poorer Cognitive Function is Associated with Changes in Naturalistic Driving Behavior

Samantha A Murphy¹, Andrew J Aschenbrenner^{1,2}, Jason M Doherty¹, Ann Johnson³, Catherine M Roe^{1,2}, Ganesh M Babula^{1,2}

¹Department of Neurology, Washington University School of Medicine, St. Louis, Missouri, USA. ²Charles F. and Joanne Knight Alzheimer's Disease Research Center, Washington University School of Medicine, St. Louis, Missouri, USA. ³Center for Clinical Studies, Washington University School of Medicine, St. Louis, Missouri, USA

20 The Influence of Psychological Factors on Everyday Problem-Solving in Alzheimer's Disease

Sarah Saravia¹, Winter Olmos¹, Abril J. Baez¹, Krithika Sivaramakrishnan¹, David Lent¹, Loren Alving², Ellen Woo^{1,2}

¹California State University, Fresno, Fresno, CA, USA. ²University of California, San Francisco-Fresno, Fresno, CA, USA

21 Effects of Stress Exposure Versus Appraisal on Episodic Memory Trajectories: Evidence for Risk and Resilience among Black Older Adults

Emily P Morris¹, Lauren L Brown², Afsara B Zaheed¹, Jordan D Palms¹, Ketlyne Sol¹, Alexa Martino¹, Laura B Zahodne¹

¹University of Michigan, Ann Arbor, MI, USA. ²San Diego State University, San Diego, CA, USA

22 Impact of Alcohol Use Disorder on Executive Functioning in an Alzheimer's Sample

Jane Sutcliff, Craig D Marker

Mercer University, Atlanta, GA, USA

23 Parity is Associated with Decreased Later-Life Mental Status but not Specific Cognitive Abilities

Carlos E Araujo Menendez¹, Averi Giudicessi¹, Ursula G Saelzler¹, Andrea Paipilla¹, Aladdin H Shadyab², Erin E. Sundermann¹, Sarah J Banks³, Matthew S Panizzon¹

¹University of California San Diego, Department of Psychiatry, San Diego, CA, USA. ²Herbert Wertheim School of Public Health and Human Longevity Science at the University of California, San Diego, San Diego, CA, USA.

³University of California San Diego, Department of Neurosciences, San Diego, CA, USA

24 The Impact of Prospective Memory on Everyday Problem Solving in Mild Cognitive Impairment and Alzheimer's Disease

Krithika Sivaramakrishnan¹, Winter Olmos¹, Sarah Saravia¹, Matthew Wright^{2,3}, David Lent¹, Loren Alving⁴, Ellen Woo¹

¹California State University, Fresno, Fresno, CA, USA. ²Lundquist Institute at Harbor-UCLA Medical Center, Torrance, CA, USA. ³Department of Psychiatry and Biobehavioral Sciences, UCLA, Los Angeles, CA, USA. ⁴UCSF Fresno, Fresno, CA, USA

25 Neuropsychiatric Symptoms and APOE, but Not Sex, Predict Alzheimer's Disease Risk

Claire M Alexander

Ohio University, Athens, OH, USA

26 The Distribution of Linguistic Metrics of Naturalistic Speech in Middle-Aged Adults Without Dementia Across Race/Ethnicity Groups

Paris S Taylor¹, Miguel A Rentería¹, Justina F Avila¹, Indira C Turney¹, Rachel Ostrand², Katherine Chia^{3,2}, John Gunstad⁴, Jennifer J Manly¹, Adam M. Brickman¹, Jet M.J. Vonk¹

¹Columbia University, New York, NY, USA. ²IBM Research, Yorktown Heights, NY, USA. ³Florida State University, Tallahassee, FL, USA. ⁴Kent University, Kent, OH, USA

27 Associations Between Plasma Phosphorylated Tau and Domain-Based Cognition Across the Alzheimer's Disease Clinical Spectrum

Marilyn J Steinbach^{1,2}, Corey J Bolton^{1,2}, Angela L Jefferson^{1,2}, Timothy J Hohman^{1,2}, Katherine A Gifford^{1,2}

¹Vanderbilt Memory & Alzheimer's Center, Vanderbilt University Medical Center, Nashville, TN, USA. ²Department of Neurology, Vanderbilt University Medical Center, Nashville, TN, USA

28 A Practical Clinical Procedural Memory Task Assessed in Patients with Amnesic Mild Cognitive Impairment and Probable Alzheimer's Disease.

Katharine E. Lindberg¹, Cierra M. Keith¹, William T. McCuddy¹, Liv E. Miller¹, Kirk Bryant², Rashi Mehta¹, Mark Miller¹, Ramiro O. Navia¹, Melanie Ward¹, Gerard Deib¹, Kirk Wilhelmsen¹, Marc W. Haut¹

¹WVU RNI, Morgantown, WV, USA. ²Wellstar Psychological Services, Marietta, GA, USA

29 Identifying Cell Signatures Correlated with Alzheimer's Disease Pathology and Dementia

Bayardo E Lacayo¹, Archana Yadav², Vilas Menon²

¹Columbia University, New York, New York, USA. ²Center for Translational and Computational Neuroimmunology, Department of Neurology, Columbia University Irving Medical Center, New York, New York, USA

30 Inflammatory Biomarker S100B Predicts Conversion to Mild Cognitive Impairment and Alzheimer's Disease At Two Years Later

Abigail R Shell, Kate E Valerio, Jena N Moody, Alex N Hasselbach, Jasmeet P Hayes

The Ohio State University, Columbus, OH, USA

31 Does Physical Activity Moderate the Association Between Cardiovascular Burden and Cognition?

Sandra T Nguyen¹, Jing Guo², Suhang Song², Adam M Brickman^{1,2,3}, Jennifer J Manly^{1,2,3}, Nicole Schupf^{1,2,4}, Richard P Mayeux^{1,2,3,4}, Yian Gu^{1,2,3,4}

¹Department of Neurology, Columbia University, New York, NY, USA. ²The Taub Institute for Research in Alzheimer's Disease and the Aging Brain, Columbia University, New York, NY, USA. ³Gertrude H. Sergievsky Center, Columbia University, New York, NY, USA. ⁴Joseph P. Mailman School of Public Health, Department of Epidemiology, Columbia University, New York, NY, USA

32 Platelet-Derived Growth Factor-BB and White Matter Hyperintensity Burden in APOE4 Carriers

Arunima Kapoor, Daniel A Nation

University of California, Irvine, Irvine, USA

33 Improving the Identification of Diagnostic Conversion and Amyloid Status in Community-Dwelling Older Adults.

Corey J Bolton¹, Marilyn J Steinbach¹, Omair A Khan¹, Dandan Liu¹, Kaj Blennow^{2,3}, Henrik Zetterberg^{2,3,4,5}, Timothy J Hohman¹, Angela L Jefferson¹, Katherine A Gifford¹

¹Vanderbilt University Medical Center, Nashville, TN, USA. ²University of Gothenburg, Mölndal, Sweden. ³Sahlgrenska University Hospital, Mölndal, Sweden. ⁴University College London, London, United Kingdom. ⁵Hong Kong Center for Neurodegenerative Diseases, Hong Kong, China

34 Plasma Phosphorylated Tau is Associated with Informant-Reported Subjective Cognitive Decline in Older Adults.

Corey J Bolton, Marilyn J Steinbach, Angela L Jefferson, Timothy J Hohman, Katherine A Gifford

Vanderbilt University Medical Center, Nashville, TN, USA

35 Vascular Contributions to Subjective Cognitive Decline in a Multiracial Community Cohort

Christopher Gonzalez¹, Silvia Chapman², Indira C. Turney², Patrick L. Lao², Stella M. Garriga², Justina Avila-Reiger², Hannah B. Vanlandingham¹, Rachael L. Ellison¹, Jose Gutierrez², Clarissa Morales², Erica Amarante², Stephanie Cosentino², Adam M Brickman², Richard Mayeux², Jennifer J Manly²

¹Illinois Institute of Technology, Chicago, IL, USA. ²Columbia University Medical Center, New York, NY, USA

36 Race Moderates the Relationship Between Socioeconomic Status and Caregiver Burden and Distress

Haley Pettingill Pettingill¹, Kathryn Glayat², Emily Brickell², Ashley LaRoche², Anneliese Boettcher², R. John Sawyer²

¹Ochsner, New Orleans, Louisiana, USA. ²Ochsner, New Orleans, Louisiana, USA

37 Blood pressure and t-tau in Spinal Fluid are associated with memory difficulties.

Knut Asbjørn Hestad^{1,2}, Perter Otto Horndalsveen², Knut Engedal^{3,4}

¹Inland Norway University of Applied Sciences, Elverum, Norway. ²Department of Research, Innlandet Hospital Trust Norway, Ottestad, Norway. ³Norwegian National Advisory Unit on Ageing and Health, Vestfold County Hospital Trust, Tønsberg, Norway. ⁴Department of Geriatric Medicine, Oslo University Hospital, Oslo, Norway

38 Is Sex a Risk Factor for Cognitive Impairments?

Ge Wang¹, David Vance², Wei Li²

¹Huazhong University of Science and Technology, Wuhan, China. ²University of Alabama at Birmingham, Birmingham, Alabama, USA

39 Experiences of Cognitive, Language and Personality Changes in Frontotemporal Dementia: Results from the FTD Insights Survey

Megan S. Barker¹, Jillian L. Joyce¹, Penny Dacks², Shana Dodge², Debra Niehoff², Sharon Denny², Susan Dickinson², Dianna Wheaton³, Stephanie Cosentino¹

¹Columbia University Irving Medical Center, New York, NY, USA. ²The Association for Frontotemporal Degeneneration, King of Prussia, PA, USA. ³FTD Disorders Registry, King of Prussia, PA, USA

40 Two Diseases are Worse Than One: Mixed Alzheimer's and Lewy Body Dementia Pathology Contributes to Steeper Rate of Decline

David K Johnson¹, [Abigail O Kramer](#)¹, Esteban Montenegro-Montenegro¹, Deborah Cahn-Weiner¹, James Galvin²

¹UC Davis Alzheimer's Disease Center, Walnut Creek, CA, USA. ²University of Miami, Dept of Neurology, Miami, FL, USA

41 Harsh Reality vs. Virtual Reality: An Explorative Review of Immersive Virtual Reality in People Living with Dementia

[A'mie M Preston](#)^{1,2}, Jordan C Williams¹, Prasad R Padala^{1,2,3}

¹Eugene J. Towbin VA Healthcare Center, North Little Rock, AR, USA. ²Geriatric Research Education and Clinical Center, North Little Rock, AR, USA. ³Department of Psychiatry, University of Arkansas for Medical Sciences, Little Rock, AR, USA

42 Estimating the Probability of Alzheimer's Disease: a Regression Model Based on Brain Folds and Curvatures.

[Lucas A Ronat](#)^{1,2}, Lyna M El Haffaf^{1,3}, Alexandru Hanganu^{1,3}

¹Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montréal, Québec, Canada. ²Faculté de Médecine, Département de Médecine, Université de Montréal, Montréal, Québec, Canada. ³Faculté des Arts et des Sciences, Département de Psychologie, Université de Montréal, Montréal, Québec, Canada

43 Subjective Cognitive Decline and Negative Mood: Not One in the Same

[Silvia Chapman](#)¹, Megan S Barker¹, Jordan Dworkin^{2,1}, Jillian L Joyce¹, Stella M Garriga¹, Christopher Gonzalez^{3,1}, Sandra J Rizer¹, Edward D Huey¹, William C Kreisl¹, Stephanie Cosentino¹

¹Columbia University Irving Medical Center, New York, NY, USA. ²New York State Psychiatric Institute, New York, NY, USA. ³Illinois Institute of Technology, Chicago, IL, USA

44 Longitudinal Genetic and Environmental Relationships Between Two Alzheimer's Disease Neuroimaging Signatures

[McKenna E. Williams](#)^{1,2,3}, Nathan A. Gillespie⁴, Tyler R. Bell^{2,1}, Anders M. Dale^{5,6}, Jeremy A. Elman^{1,2}, Lisa T. Eyler^{2,7}, Christine Fennema-Notestine^{2,5}, Donald J. Hagler, Jr.⁵, Michael J. Lyons⁸, Linda K. McEvoy⁵, Michael C. Neale⁴, Matthew S. Panizzon^{1,2}, Chandra A. Reynolds⁹, Mark Sanderson-Cimino^{1,2,3}, Carol E. Franz^{1,2}, William S. Kremen^{1,2}

¹Center for Behavior Genetics of Aging, University of California San Diego, La Jolla, CA, USA. ²Department of Psychiatry, University of California San Diego, La Jolla, CA, USA. ³Joint Doctoral Program in Clinical Psychology, San Diego State University/University of California San Diego, San Diego, CA, USA. ⁴Virginia Institute for Psychiatric and Behavior Genetics, Richmond, VA, USA. ⁵Department of Radiology, University of California San Diego, La Jolla, CA, USA. ⁶Department of Neuroscience, University of California San Diego, La Jolla, CA, USA. ⁷Desert Pacific Mental Illness Research Education and Clinical Center, VA San Diego Healthcare System, San Diego, CA, USA. ⁸Department of Psychological and Brain Sciences, Boston University, Boston, MA, USA. ⁹Department of Psychology, University of California Riverside, Riverside, CA, USA

45 Higher levels of trait mindfulness are associated with less amyloid, tau, cognitive decline, and brain atrophy in preclinical Alzheimer's disease

Cherie Strikwerda-Brown^{1,2}, Hazal Ozlen^{1,2}, Alexa Pichet Binette^{1,2}, Marianne Chapleau², Sylvia Villeneuve^{1,2}

¹McGill University, Montreal, Quebec, Canada. ²Douglas Mental Health University Institute, Montreal, Quebec, Canada

46 Case Report: Longitudinal Data Using In-Person and Teleneuropsychology Services in a Spanish-Speaking Patient with Autoimmune Limbic Encephalitis.

Karen A Dorsman^{1,2}, Leslie Rosenstein^{1,2}

¹University of Texas Southwestern Medical Center, Dallas, Texas, USA. ²Parkland Health & Hospital System, Dallas, Texas, USA

47 Machine learning models to predict the outcome of traumatic brain injury

Alexandra T Davis

Chaminade University of Honolulu, Honolulu, HI, USA

48 Closing the Gap: Increasing Access to Feedback in Pediatric Neuropsychology Through Tele-Neuropsychology

Kelsey D Grodner¹, Emily Z Holding¹, Sara M Scull¹, Kelsey P Marschall¹, Erica Pollock¹, Jennifer Amato^{1,2}, Jonathan D Lichtenstein^{1,2}

¹Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA. ²Geisel School of Medicine at Dartmouth, Hanover, NH, USA

49 Evaluating the Use of Telephone-Based Neurocognitive Tests over 6-Month Follow-Up

Emily W. Paolillo^{1,2}, James C. Mundt³, Jerome A. Yesavage⁴, Lisa M. Kinoshita¹

¹VA Palo Alto Health Care System, Palo Alto, CA, USA. ²UCSF Memory and Aging Center, San Francisco, CA, USA. ³Sand Ridge Secure Treatment Center, Madison, WI, USA. ⁴Stanford University, Stanford, CA, USA

50 Effects of COVID-19 on Neuropsychological Test Selection for Repeat Evaluations in a VA Outpatient Setting using a Hybrid Teleneuropsychology Model

Hannah L Weiss^{1,2}, Matthew P Marggraf¹, Greg J Lamberty^{1,3}

¹Minneapolis Veterans Affairs Health Care System, Minneapolis, Minnesota, USA. ²Department of Psychology, University of Minnesota, Minneapolis, Minnesota, USA. ³Department of Psychiatry, University of Minnesota Medical School, Minneapolis, Minnesota, USA

51 Assessing Everyday Functioning in Young Adult Athletes Using the Goal-Control Framework: Relations Between the Virtual Kitchen Challenge (VKC) Paradigm, Cognition, and Lifetime Concussion History

Rachel E. Mis¹, Taisei Ando², Takehiko Yamaguchi², Caroline Brough¹, Leah Michalski¹, Linda J. Hoffman¹, Ingrid Olson¹, Tania Giovannetti¹

¹Temple University, Philadelphia, PA, USA. ²Suwa University of Science, Nagano, Japan

52 Performance Validity Testing via Telehealth and Failure Rate After Mild Versus Moderate-to-Severe Traumatic Brain Injury: A Veterans Affairs TBI Model Systems Study

Marc A. Silva^{1,2}, Robert J. Kansner¹, Justin J. F. O'Rourke³

¹James A. Haley Veterans' Hospital, Tampa, FL, USA. ²University of South Florida, Tampa, FL, USA. ³Audie L. Murphy Memorial Veterans' Hospital, San Antonio, TX, USA

53 Young, Tech Savvy, and Lonely: A Lifespan View of Social Media Use, Technology Barriers, and Loneliness during COVID-19

Moira E. Mckniff¹, Rebecca Marrero², Emma Pinsky¹, Molly Tassoni¹, Katherine Hackett¹, Tania Giovannetti¹

¹Temple University, Philadelphia, PA, USA. ²Yale University, New Haven, Connecticut, USA

54 Relationship Between a Telephone-Based Cognitive Assessment and Lifestyle, Medical, and Cognitive Risk Factors in an Alzheimer's Prevention Registry

Taylor R. Maynard¹, Deirdre O'Shea^{2,1}, Geoffrey Tremont^{1,2}, Charles Denby¹, Brian R. Ott³

¹Rhode Island Hospital, Providence, RI, USA. ²Warren Alpert Medical School of Brown University, Providence, RI, USA. ³Brown University Department of Neurology, Providence, RI, USA

55 What Kind of Driver Are You? What You Think Versus What You Do: Discrepancies Between Self-Reported and Naturalistic Driving Behaviors

Kathryn N. Devlin, Aleksandar Gonevski, Molly Split, Sophia Lopes, Jocelyn Ang, Maria T. Schultheis

Drexel University, Philadelphia, PA, USA

56 Guidelines for the Practice of Teleneuropsychology in Latin America: Recommendations from the Latin American working Group for Teleneuropsychology

Lucia Crivelli¹, Yakeel T Quiroz², Ismael L Calandri¹, María E Martín¹, Lina M Velilla³, Maria I Cusicanqui⁴, Fernando Coto Yglesias⁵, Juan J Libre-Rodríguez⁶, Montserrat Armele⁷, Fabián Román^{8,9}, Ernesto Barceló⁸, Claudia Dechent¹⁰, María A Carello¹, Loreto Olavarría¹¹, Monica S Yassuda¹², Nilton Custodio¹³, Sergio Dansilio¹⁴, Ana L Sosa¹⁵, Daisy M Acosta¹⁶, Sonia MD Brucki¹⁷, Paulo Caramelli¹⁸, Andrea Slachevsky^{19,20}, Ricardo Nitirini¹⁷, María C Carrillo²¹, Ricardo F Allegri^{1,8}

¹Department of Cognitive Neurology, Fleni, Buenos Aires, Argentina. ²Department of Psychiatry, Massachusetts General Hospital, Boston, Massachusetts, USA. ³Antioquia University Medical School, Medellín, Colombia. ⁴Hospital de Clínicas Universitarias La Paz, La Paz, Bolivia, Plurinational State of. ⁵Hospital Nacional de Geriatria y Gerontología, San José, Costa Rica. ⁶; Facultad Finlay-Albarran, Universidad de Ciencias Medicas de La Habana, La Habana, Cuba. ⁷Asociación Paraguaya de Neuropsicología, Facultad de psicología Universidad Católica de Asunción, Asunción, Paraguay. ⁸Department of Health Sciences, Universidad de la Costa, Barranquilla, Colombia. ⁹Red Iberoamericana de Neurociencia Cognitiva, Buenos Aires, Argentina. ¹⁰Departamento de Medicina-Geriatria; Hospital Clínico Universidad de Chile, Santiago, Chile. ¹¹Memory and Neuropsychiatric Clinic (CMYN) Neurology Department, Hospital del Salvador and Faculty of Medicine, University of Chile, Santiago, Chile. ¹²Gerontologia, Escola de Artes, Ciências e Humanidades, Universidade de São Paulo, Sao Paulo, Brazil. ¹³Instituto Peruano de Neurociencias, Lima, Peru. ¹⁴Universidad de la República, Montevideo, Uruguay. ¹⁵Laboratory of the Dementias, National Institute of Neurology and Neurosurgery Manuel Velasco Suarez of Mexico City, Mexico City, Mexico. ¹⁶Medicina Interna, Universidad Nacional Pedro Henriquez Urena, Santo Domingo, Dominican Republic. ¹⁷Neurologia, Hospital das clínicas da Faculdade de Medicina da Universidade de São Paulo, Sao Paulo, Brazil. ¹⁸Faculdade de Medicina, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil. ¹⁹Geroscience Center for Brain Health and Metabolism, Santiago, Chile. ²⁰Neuropsychology and Clinical Neuroscience Laboratory (LANNEC), Physiopathology Department - Intitute of Biomedical Sciences (ICBM), Neurocience and East Neuroscience Departments, Faculty of Medicine, University of Chile, Santiago, Chile. ²¹Alzheimer's Association, Division of Medical and Scientific Relations, Chicago, Illinois, USA

57 Teleneuropsychological Assessment with Youth with Neurodevelopmental Disorders: Challenges and Considerations

Beth Pollock, Allyson G Harrison, Irene Armstrong
Queen's University, Kingston, Ontario, Canada

58 Patients' Experience and Satisfaction with Teleneuropsychology: A Monolingual and Bilingual Spanish-Speaking Adult Sample

Diomaris Safi¹, Francesca Arias²

¹University of California Los Angeles, Los Angeles, California, USA. ²Harvard Medical School, Boston, MA, USA

59 The reliability of administering the Color-Word Interference Test and Oral Trail Making Test via videoconferencing technology

Lauren E Sather, Nadine A Schwab, Shona W Allen, Steven E Arnold
Massachusetts General Hospital, Boston, Massachusetts, USA

60 The Clinical Utility of Teleneuropsychology Screening Evaluations in Assessing the Neurocognitive Status of Long-Term Pediatric Cancer Survivors

Colleen T Hess¹, Sakina M Butt²

¹Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA. ²Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

61 Brief Teleneuropsychological Assessment of Adults with Spinal Cord Injury: Feasibility and Acceptability

Najae Dixon¹, Ted Allaire¹, Kristian Manley², James Krause², Seth Warschausky¹, Michelle Meade¹

¹University of Michigan, Ann Arbor, MI, USA. ²Medical University of South Carolina, Charleston, SC, USA

62 TELE-NEUROPSYCHOLOGY in Argentina. Impact of COVID in the NEUROPSYCHOLOGICAL CLINIC. Perspective of patients and neuropsychologists.

MICAELA MARIA ARRUABARRENA, LUCIA CRIVELLI, MARIA EUGENIA MARTIN, ISMAEL LUIS CALANDRI, MARIA BELEN HELOU, CARLOS MARTINEZ, RICARDO FRANCISCO ALLEGRI

Fleni, Buenos Aires, Buenos Aires, Argentina

***LIVE* Program Welcome by Co-Chairs: Lucette Cysique and Holly Miskey**

9:45 - 10:00am Wednesday, 2nd February, 2022

***LIVE* Plenary G: Culture, Education, Bilingualism and Neurocognitive Functioning --- Presenter: Monica Rosselli**

10:00 - 10:55am Wednesday, 2nd February, 2022



Mónica Rosselli, PhD

Professor and Associate Chair

Department of Psychology

Florida Atlantic University

FAU Neuropsychology Laboratory Director

Plenary G: Culture, Education, Bilingualism and Neurocognitive Functioning

Instructional Level: Intermediate

Abstract & Learning Objectives:

Culture includes the ways of thinking, feeling, and behaving of a group of individuals. Several aspects of a culture have been identified. They are known to play an important role in neuropsychological assessment, including the values and meanings of the culture, the ways of knowing, and the conventions of communication. For instance, the relevance of the information presented on an item may not be the same in all cultures. Additionally, the pattern of cognitive abilities usually measured in neuropsychological tests represents, at least in their contents, learned abilities, which scores correlate with the subject's learning opportunities and contextual experiences. Therefore, culture will define the familiarity with the situations presented in neuropsychological evaluations and the cognitive strategies needed to succeed. Language is an identifying cultural characteristic that plays an instrumental role in cognition; world conceptualization depends upon language, and therefore, language experience may also influence performance on neuropsychological tests. Finally, length and quality of education have been identified as highly related to performance on neuropsychological testing. This presentation analyzes the importance of the above cultural variables in neurocognitive functioning, emphasizing the Hispanic/Latino population in the United States. As most of the members of this ethnic group are bilingual, the benefits and disadvantages associated with maintaining two active languages are presented, and the controversy about bilingualism as a builder of cognitive and brain reserve in aging is discussed.

Upon conclusion of this course, learners will be able to:

- Define culture and describe the identified aspects of culture that play a role in neuropsychological assessment
- Explain the relationships between bilingualism and the concept of brain and cognitive reserve
- List the clinical benefits of considering the individual's culture and education in neuropsychological assessments

Speaker Biography:

Dr. Mónica Rosselli is a Professor and Associate Chair of the Department of Psychology at Florida Atlantic University, Davie, Florida (USA) and the FAU Neuropsychology Laboratory director. She has been particularly interested in analyzing neuropsychological differences in culturally diverse populations. Her current research focuses on the neuropsychology of normal and abnormal aging and the influence of cultural and educational factors on cognitive test performance and brain biomarkers in mild cognitive impairment and dementia. She has also studied the contribution of bilingualism to cognitive and brain reserve. She has developed several neuropsychological tests for Spanish-speaking individuals and has published numerous peer-reviewed journal articles (with close to 19,000 citations) studying cross-cultural neuropsychology. Dr. Rosselli is also an investigator at the 1FLORIDA Alzheimer's Disease

Research Center supported by the National Institute of Aging and the Florida Department of Health and has been an invited faculty to neuropsychology programs in Bolivia, Chile, Colombia, Ecuador, Italy, Mexico, Paraguay, Spain, and Russia.

5 min. break

10:55 - 11:00am Wednesday, 2nd February, 2022

***LIVE* Invited Symposium 4: Prenatal Exposures with Neuropsychological Consequences -- Chair: Rebecca Bromley Presenters: Claire D. Coles, Anne Wheeler, Laura Yates**

11:00am - 12:30pm Wednesday, 2nd February, 2022



Chair: Rebecca Bromley, PhD

Research Fellow

Developmental Neuropsychologist

Division of Neuroscience and Experimental Psychology

University of Manchester

Invited Symposium 4: Prenatal Exposures with Neuropsychological Consequences.

Abstract & Learning Objectives:

Exposures in the womb to certain maternal illnesses, medications and recreational substances can have deleterious consequences for the developing fetal brain which leads to altered neuropsychological functioning profiles in childhood. This session will describe how such human teratogens can alter the development of the fetus and the principles which mediate the level of affect. Talks will include examples of a maternal illnesses (Zika Virus), a medication (Sodium Valproate) and a recreational exposure (Alcohol), which pose a risk to the developing fetal brain and result in neuropsychological difficulties. Important aspects of assessment and intervention with individuals with a history of such exposures will be discussed as will the importance of psychological expertise in this area of research.

Upon conclusion of this course, learners will be able to:

- Describe how certain exposures in the womb impact later child and adult neuropsychological functioning
- Assess the quality of the research evidence for a particular exposure
- Apply the key principles into your neuropsychology practice

Instructional Level: Intermediate

Chair Biography:

Dr. Rebecca Bromley is a Neuropsychologist at the University of Manchester and a Clinical Psychologist working in the UK's National Health Service. Her interests surround exposure to medications in the womb and the possible impact on later child cognitive, motor and social development. She completed her PhD at the University of Liverpool, UK on the longer-term neurodevelopmental outcomes of children exposed to anti-seizure medications in the womb. She later moved to the University of Manchester where she went on to develop a series of research studies aimed at further delineating the possible risks associated with in utero exposure to medications. She is currently working with colleagues across Europe to improve the researching and reporting of medication exposed pregnancies. She has published over 40 academic articles and has worked with medicines regulators and other stakeholders to improve risk benefit-decision making regarding medication use in pregnancy.



Claire D. Coles, Ph.D.

Dr. Claire D. Coles is Professor of Psychiatry and Behavioral Sciences and Pediatrics at Emory University School of Medicine, Atlanta, Georgia, and Director of the Center for Maternal Substance Abuse and Child Development (MSACD) and Director of Mother2Baby. GA, a teratology information service that provides counseling and information to pregnant and breast feeding women, their partners and health care professionals about exposure to prescription and illicit drugs and well as a variety of environmental toxins. Dr. Coles' research on the developmental

and behavioral effects of prenatal exposure to alcohol and drugs and on the interaction of these effects with the postnatal environment began in 1980 and was among the first to describe many behavioral effects of prenatal alcohol exposure in infants, young children and adolescents as well as the effects on brain structure and function in young adults. Dr. Coles is principal investigator on a multi-site, long-term study of effects of prenatal alcohol exposure on adult health in middle age and a co-investigator on a prospective study of FASD in Ukraine.

In 1995, Dr. Coles established the only multidisciplinary clinic in the Southeastern United States providing specialized services to individuals prenatally exposed to alcohol and other drugs, providing differential diagnosis and behavior evaluation, referral, psychotherapy and educational services. Dr. Coles and her colleagues have created two empirically validated, manualized treatment programs for alcohol and drug-affected children, MILE and GoFAR. Dr. Coles work has received national and international attention through the publication of numerous articles and books on these topics.



Anne Wheeler, PhD

Dr. Anne Wheeler is a senior research analyst at RTI International, where she conducts multiple research projects focused on the development of tools and strategies to improve outcomes for individuals with intellectual/developmental disabilities, especially those with neurogenetic conditions. Dr. Wheeler is also an Adjunct Associate Professor of Psychiatry and School Psychology at the University of North Carolina at Chapel Hill and a practicing licensed psychologist at the Carolina Institute for Developmental Disabilities. She has been involved in clinical service provision and research focused on developmental and familial outcomes for children with genetic diagnoses for over 20 years.



Laura Yates, PhD, DRCOG, MRCPCH

Dr. Laura Yates has a passion that lies in translational research that builds infrastructure and expertise locally and that directly improves to the clinical care of patients with rare genetic disorders and the prevention of teratological effects on the fetus. She has experience in rare disease surveillance and diagnosis both from a clinical and research perspective. After completing her basic medical degree in Cape Town, South Africa, she moved to the UK for 19 years where she obtained a PhD in genetics and specialised as a Clinical Geneticist. In 2009 Dr. Yates was

appointed as a Consultant in Clinical Genetics and Head of the UK Teratology Information Service, a national service that undertakes surveillance and provides advice to Health Care Professionals regarding fetal risk arising from medication use in pregnancy. Through this role she has developed strong international collaborations and experience in birth defect surveillance based on primary data collection and secondary use of existing electronic healthcare datasets. Within the genetics department Dr. Yates was clinical lead for renal genetic conditions and local PI on a number of collaborative genetic projects centred on genetic causes of birth defects. Although her consultant role was primarily clinical, she was actively involved in research, holding an honorary position at Newcastle University for the nine years she was in post and actively contributing to obtaining research grant funding and to leading research at UKTIS. Dr. Yates returned with her family to South Africa at the end of 2018, where she is now employed in the only quaternary hospital in South Africa as the first geneticist in KwaZulu-Natal for the past 10 years. She also holds an honorary lecturers position at the University of KwaZulu-Natal and is currently the work package 2 lead in a large international consortium funded by the Innovations Medicines Initiative, working closely alongside global congenital anomaly networks. (LARGE-PD).

Symposium 12: The Future of Neuropsychology: Applications of Innovative Technologies

11:00am - 12:30pm Wednesday, 2nd February, 2022

11 The Future of Neuropsychology: Applications of Innovative Technologies

Chair

Michelle Chen

Rutgers University, New Brunswick, USA

Discussant

Michelle Chen

Rutgers University, New Brunswick, USA

180 Hybrid Neuropsychology: Integration of Digital Tools

Shifali Singh

McLean Hospital, Belmont, MA, USA

182 Digital Phenotyping of Cognition via Typing Dynamics Monitoring

Michelle H Chen

Rutgers University, New Brunswick, NJ, USA

185 Automated Dementia Detection Using Artificial Intelligence

Samad Amini, Lifu Zhang, Boran Hao, Aman Gupta, Mengting Song, Cody Karjadi, Honghuang Lin, Vijaya B Kolachalama, Rhoda Au, Ioannis Paschalidis

Boston University, Boston, MA, USA

187 Use of Eye Tracker Technologies in Neurological Populations

Silvana L Costa

Kessler Foundation, East Hanover, NJ, USA

Symposium 13: Show Me The Money: Grantsmanship for the Early Career Neuropsychologist

11:00am - 12:30pm Wednesday, 2nd February, 2022

9 Show Me The Money: Grantsmanship for the Early Career Neuropsychologist

Chair

Shanna Cooper

VA San Diego | Coastal Neuropsych | UC San Diego, San Diego, USA

Discussant

Preeti Sunderaraman

Boston University, Boston, USA

681 Navigating National Institutes of Health Research Career Development Awards as an Early Career Investigator

Benjamin L. Brett

Medical College of Wisconsin, Milwaukee, WI, USA

685 Keys to Planning and Writing Effective VA Career Development Awards

J.Cobb Scott

University of Pennsylvania, Philadelphia, PA, USA. orporal Michael J. Crescenzo (Philadelphia, VAMC), Philadelphia, PA, USA

687 Walking the Tightrope of Balancing Personal and Professional Life

Andrea Weinstein

University of Pittsburgh, Pittsburgh, PA, USA

694 Finding Foundation Funding

Emma Rhodes

University of Pennsylvania Frontotemporal Degeneration Center, Philadelphia, PA, USA

Paper Session 17: Aging 2

11:00am - 12:30pm Wednesday, 2nd February, 2022

1 Socioeconomic Status, Biological Aging, and Memory in a Diverse National Sample of Older US Men and Women

Justina F Avila-Rieger, Indira C Turney, Jet M. J. Vonk, Precious Esie, Dominika Seblova, Vanessa R Weir, Daniel W Belsky, Jennifer J Manly

Columbia University Irving Medical Center, New York, NY, USA

2 Childhood SES and Age-Related Brain Health in Racially/Ethnically Diverse Older Adults

Shawn X Crowley¹, Indira C Turney², Justina Avila-Rieger², Kacie Deters³, Ketlyne Sol⁴, Shellie-Anne Levy⁵, Mirella Diaz-Santos⁶, Franchesca Arias⁷, Carmen Carrion⁸, Tanisha G. Hill-Jarrett⁹, Luis Medina¹⁰, Sarah Tom², Rebecca Melrose⁶, Richard Jones¹¹, Nicole Schupf², Richard Mayeux², Adam M. Brickman², Jennifer J. Manly²

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3 Sex Differences in the Relationship between Perceived Stress and Cognitive Trajectories

Emily W. Paolillo, Michelle You, Eva Gontrum, Joel H. Kramer, Kaitlin B. Casaletto

UCSF Memory and Aging Center, San Francisco, CA, USA

4 Neighborhood Variability in Cognitive Function

Cheyenne V Parson^{1,2}, Dominika Seblova¹, Joan A Casey¹, Erin R Kulick³, Adam M Brickman¹, Karen A Dorsman⁴, Richard P Mayeux¹, Jennifer J Manly¹

¹Columbia University, New York, NY, USA. ²Washington University in St. Louis, St. Louis, MO, USA. ³Temple University, Philadelphia, PA, USA. ⁴The University of Texas Southwestern Medical Center, Dallas, TX, USA

5 Effect Modification of Discrimination on the Association of Changes in Inflammation with Cognition and White Matter Hyperintensity Burden Over Time in the Minority Aging Research Study

Elizabeth A Boots^{1,2}, Sue Leurgans², Douglas L Feinstein¹, Debra Fleischman², Konstantinos Arfanakis^{2,3}, Lisa L Barnes², Melissa Lamar²

¹University of Illinois at Chicago, Chicago, IL, USA. ²Rush Alzheimer's Disease Center, Chicago, IL, USA. ³Illinois Institute of Technology, Chicago, IL, USA

6 Reproductive Health Span and Time Since Menopause are Associated with Inflammation and Cognition in Typically-Aging Women

Harli E Grant¹, Lauren Goldberger¹, Laura Pritschet², Emily Jacobs², Joel H Kramer¹, Kaitlin B Casaletto¹

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Paper Session 18: Oncology

11:00am - 12:30pm Wednesday, 2nd February, 2022

1 Biomarkers of Cognitive Sequelae in Breast Cancer Patients Throughout Chemotherapy: a Systematic Review

Gwen Schroyen^{1,2,3}, Julie Vissers³, Michelle Melis^{1,2,3}, Ann Smeets^{2,4,5}, Céline R. Gillebert^{1,6}, Jurgen Lemiere^{2,4,7}, Stefan Sunaert^{1,3,8}, Sabine Deprez^{1,2,3}, Charlotte Sleurs^{1,2,4}

¹Leuven Brain Institute, KU Leuven, Leuven, Belgium. ²Leuven Cancer Institute, KU Leuven, Leuven, Belgium. ³Department of Imaging and Pathology, KU Leuven, Leuven, Belgium. ⁴Department of Oncology, KU Leuven, Leuven, Belgium. ⁵Surgical Oncology, University Hospitals Leuven, Leuven, Belgium. ⁶Department of Brain and Cognition, KU Leuven, Leuven, Belgium. ⁷Pediatric Hemato-Oncology, University Hospitals Leuven, Leuven, Belgium. ⁸Radiology, University Hospitals Leuven, Leuven, Belgium

2 Hypogonadism and Neurocognitive Outcomes in Long-Term Survivors of Childhood Cancer: A Report From the St. Jude Lifetime Cohort (SJLIFE) Study

Tyler Alexander¹, Sedigheh Mirzaei Salehabadi¹, Mengqi Xing¹, AnnaLynn Williams¹, Margaret Lubas², Pia Banerjee¹, Tara Brinkman¹, Deo Kumar Srivastava¹, Leslie Robison¹, Melissa M Hudson¹, Wassim Chemaitilly¹, Kevin Krull¹, Angela Delaney¹

¹St. Jude Children's Research Hospital, Memphis, TN, USA. ²Radford University, Radford, VA, USA

3 Late Neurocognitive Decline in Adult Survivors of Childhood Cancer: A Report from the St. Jude Lifetime Cohort Study

Pia Banerjee, Wei Liu, Tyler Alexander, Nicholas S. Phillips, AnnaLynn M. Williams, Daniel A. Mulrooney, Matthew J. Ehrhardt, Tara M. Brinkman, Kirsten K. Ness, Deokumar Srivastava, Leslie L. Robison, Melissa M. Hudson, Kevin R. Krull

St. Jude Children's Research Hospital, Memphis, TN, USA

4 Graph Analysis of Structural Brain Networks and Associations with Core Cognitive Constructs in Pediatric Brain Tumor Survivors

Eric S Semmel¹, Sabrina D Na², Tricia Z King¹

¹Georgia State University, Atlanta, GA, USA. ²Emory University School of Medicine, Atlanta, GA, USA

5 Neurocognitive Impairment, Neurobehavioral Sequelae, Fatigue, Sleep Disturbance, and Depressive Symptoms in Patients with Newly Diagnosed Glioblastoma

Angela Sekely^{1,2}, Kristin L. Campbell³, Lori J. Bernstein^{2,1}, Warren P. Mason², Gregory Pond⁴, Normand Laperriere², Barbara-Ann Millar², David Shultz², Derek S. Tsang², Gelareh Zadeh^{5,1}, Kim Edelstein^{2,1}

¹University of Toronto, Toronto, ON, Canada. ²Princess Margaret Cancer Centre, Toronto, ON, Canada. ³The University of British Columbia, Vancouver, BC, Canada. ⁴McMaster University, Hamilton, ON, Canada. ⁵Toronto Western Hospital, Toronto, ON, Canada

6 Assessing Learning and Memory Among Patients with Pediatric Brain Tumor (PBT): A Comparison of Measures

Ashley M. Whitaker, Kelsey Hawthorne, Zachary B. Wood, Leanne Mendoza

Children's Hospital Los Angeles, Los Angeles, CA, USA

Poster Session 03: Executive Functions | Language | Neglect | TBI

11:00am - 12:00pm Wednesday, 2nd February, 2022

01 Why are Performance-Based and Rating-Based Measures of Executive Function Poorly Correlated? An Exploration of Age-Related Effects

Blake Gimbel^{1,2}, Aarika Olsen³, Theresa Lafavor³

¹Proof Alliance, Saint Paul, MN, USA. ²Minnesota Neuropsychology, LLC, Saint Paul, MN, USA. ³Pacific University, Hillsboro, OR, USA

02 Does Children's Performance in Orthographic and Semantic Verbal Fluency Correlate Differently with Linguistic and Executive Abilities?

Gabriella Koltermann¹, Giulia Moreira Paiva², Vitor Geraldi Haase², Jerusa Fumagalli de Salles¹

¹Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil. ²Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil

03 Neuroticism Moderates Effect of Expressive Suppression on Executive Functioning in Community-Dwelling Older Adults

Michelle Gereau Mora, Yana Suchy

University of Utah, Salt Lake City, UT, USA

04 Low-Income Dual Language Learners' Executive Function and Language Usage During Preschool Parent-Child Book Sharing

Ezra Mauer¹, Emily Mak², Yuuko Uchikoshi², Rufan Luo³, Qing Zhou¹

¹University of California, Berkeley, Berkeley, CA, USA. ²University of California, Davis, Davis, CA, USA. ³Rutgers University, Camden, Camden, NJ, USA

05 Associations of Pre-Adolescent Circulating Endocannabinoid Concentrations with Cognitive and Behavioral Executive Functioning Measures: Preliminary Data from the ABCD Study

Ryan M Sullivan¹, Christine M Kaiver¹, Elizabeth A Stinson¹, Alexander L Wallace¹, Garrett Sauber², Cecilia J Hillard², Krista M Lisdahl¹

¹University of Wisconsin-Milwaukee, Milwaukee, WI, USA. ²Medical College of Wisconsin, Wauwatosa, WI, USA

06 The Relationships Between Physical Activity, VO2 max, Cognition, and Brain Volume Differ by Inflammation Level in an Older Adult Cohort

Joy Stradford, Nancy Ortega, Ashwin Sakhare, Daniel Albrecht, Laura Fenton, Vahan Aslanyan, Megan Fitzhugh, Joey A Contreras, Julissa Ruiz, Jana Labib, Aryan Madani, Teresa Monreal, A. Lisette Isenberg, Judy Pa

Mark and Mary Stevens Neuroimaging and Informatics Institute, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA

07 Data-Driven Subtypes of Executive Function in a Transdiagnostic Pediatric Sample

Yangfeifei Gao^{1,2}, Xiaozhen You^{2,1}, Jessica Smith¹, Nicole Nadwodny¹, Jordan Linde², Adnan Rashid², Sufang Li², Madison Berl¹, Chandan Vaidya², Lauren Kenworthy¹

¹Children's National Hospital, Washington, DC, USA. ²Developmental Cognitive Neuroscience Laboratory at Georgetown University, Washington, DC, USA

08 Executive Function in Complete and Partial Agenesis of the Corpus Callosum

Doori Jeong¹, Lynn K. Paul², Warren S. Brown¹

¹Fuller Graduate School of Psychology, Pasadena, California, USA. ²California Institute of Technology, Pasadena, California, USA

09 Attention and Executive Functions in a Clinical Sample of Children, Adolescents, and Young Adults with Attention-Deficit/Hyperactivity Disorder (ADHD) and Mood Disorders

Jenna B Lebersfeld, Alexandra C Kirsch

NorthShore University Health System, Evanston, IL, USA

10 Informant and Self-Reported Ratings of the Frontal Systems Behavior Scale in Brain Tumor Survivors and Healthy Controls

Olivia C Haller, Holly A Aleksonis, Tricia Z King

Georgia State University, Atlanta, GA, USA

11 Environmental Predictors of Children's Executive Functioning Development

James D. Lynch^{1,2}, Yingying Xu², Kimberly Yoltson², Jane C. Khoury², Aimin Chen³, Bruce P. Lanphear⁴, Kim M. Cecil², Joseph M. Braun⁵, Jeffery N. Epstein²

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⁵Brown University, Providence, RI, USA

12 The relationship between age, intra-individual variability, and executive functioning in youth age 8 to 17

Jessica Paxton, Susan Torres-Harding, Adrian Thomas

Roosevelt University, Chicago, IL, USA

13 Examining Methods of Executive Ability from Trail Making Test Part B in Monolingual and Bilingual Persons with Traumatic Brain Injury

Daniel W Lopez-Hernandez¹, Isabel D Munoz¹, Pavel Y Litvin¹, Bethany A Nordberg¹, Rachel A Rugh-Fraser¹, Krissy E Smith¹, Danna Paola Montoya², Maya Farchi³, Jill Razani³, Selina Mangassarian¹, Sarah Fatoorechi¹, Alexis Bueno¹, David J Hardy⁴, Deborah Budding¹, Paul M Vespa⁵, David A Hovda⁵, David McArthur¹, Paul Matthews¹, Ellen Woo⁶, Maureen Schmitter-Edgecombe⁷, Enrique Lopez¹, Joaquin M Fuster¹, Tara L Victor⁸, Matthew J Wright¹

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14 Profiles of Neurobiological and Cognitive Processes Among Low-income, Urban youth

Valerie S. Everett, Deborah A. G. Drabick

Temple University, Philadelphia, PA, USA

15 Practice Makes Perfect? The Effects of Long-Term Mindfulness Practice on Mind-Wandering

Qingyi Zhang, Lynley G. Turkelson, Quintino Mano

University of Cincinnati, Cincinnati, Ohio, USA

16 The Relationship Between Dietary Habits, Nutrition Knowledge, and Self-Reported Executive Functioning Abilities

Ayesha Ludhani, Jo Cara Pendergrass

William James College, Newton, MA, USA

17 Voxel-Based Lesion Behavior Mapping in Patients with Resected Brain Tumors: A Pilot Study

Moyosoreoluwa O. Jacobs¹, William T. McCuddy², Katharine Lindberg², Mary Lee², Liv Miller³, Marc Haut³

¹West Virginia University, Morgantown, WV, USA. ²Department of Behavioral Medicine and Psychiatry, West Virginia University, Morgantown, WV, USA. ³Rockefeller Neuroscience Institute, West Virginia University, Morgantown, WV, USA

18 The Relationship Between Adverse Childhood Experiences and Executive Functioning in an Inpatient Adolescent Population

Brittany Burkins¹, Cara Pendergrass¹, Craig Murphy¹, Karen Holler²

¹William James College, Newton, MA, USA. ²Brown University, Providence, RI, USA

19 Associations Between Personality Traits and Subjective and Objective Measures of Executive Function

Malorie E Watson¹, Ben Fusco-Gessick¹, Eric McConathey¹, Ziyun Wang¹, Eileen Moran², Molly E Zimmerman¹

¹Fordham University, New York, NY, USA. ²Mass General Brigham, Boston, MA, USA

20 Subdimensions of Mood Symptoms and Cognitive Performance in Healthy Young Adults

Ziyun Wang¹, Malorie E Watson¹, Eric McConathey¹, Benjamin Fusco-Gessick¹, Eileen E Moran², Molly E Zimmerman¹

¹Fordham University, Bronx, NY, USA. ²Mass General Brigham, Boston, MA, USA

21 Outcomes of an Online Caregiver Executive Functioning Video Suite for Children with EF Difficulties

Jessica V Smith¹, Alyssa Verbalis¹, Tennyson Dahlman², Anna Chelsea Armour¹, Jessica Holmes², Lynn Cannon³, Monica Werner⁴, Katie C Alexander⁵, Allison Ratto¹, Kristina Hardy¹, Bruno Anthony², Laura G Anthony², Lauren Kenworthy¹

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22 I Think, Therefore I Deliberate: Higher Need for Cognition is Associated with Increased Response Time on Computerized Executive Functioning Tasks

Melissa A Myers, Nanako A Hawley, Jasmin H Pizer, Murphy N Harrell, Stephen L Aita, Benjamin D Hill

University of South Alabama, Mobile, AL, USA

23 Mexican Mood Symptomatology and Acculturation Impacts Lexical Retrieval Performance

Raymundo Cervantes¹, Alexis Bueno¹, Bethany A Nordberg¹, Isabel D Munoz¹, Winter Olmos¹, Sarah Saravia¹, Krissy E Smith¹, Daniel Gomez Martinez², Andrea R. Preciado³, Jessica Guzman², Jorge E. Jimenez Ortiz³, Enrique Lopez¹, Pavel Y Litvin¹, Matthew J Wright¹, David J Hardy⁴, Daniel W Lopez-Hernandez¹, Alberto Fernandez⁵

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24 Expressive and Receptive Language Profiles of Adolescents in Prostitution

Kendra E. Jacques, Anne A. T. Nolty, Irene Sipan, Stacy S. Amano

Fuller Theological Seminary, Pasadena, CA, USA

26 Estimating Baseline Functioning when Language is a Complication: Exploring Primary Progressive Aphasia and English as a Second Language

Carolyn M Sherer

National Institute of Neurological Disease and Stroke, Bethesda, MD, USA

27 The impact of temperament on communication development in term and preterm infants

Natasha Lang¹, Michelle Lobermeier¹, Renee Lajiness-O'Neill^{1,2}

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28 The Effect of Language Experience and Gender on Verbal Fluency Test Performance in Young Adults

Shantel Pollock, Idaly Velez Uribe, Monica Rosselli

Florida Atlantic University, Boca Raton, Florida, USA

29 The associations between sleep disturbance and language difficulties in Down syndrome

Hannah E Grosman¹, Kelsey Csumitta¹, Laylah Jones¹, Emily Hostetter², Emily Miller¹, Rebecca LaQuaglia¹, Moshe Maiman³, Nancy R Lee¹

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30 Relationship Between Visual Working Memory and Verbal Fluency in Undergraduate Deaf Sign Language Users

Casey Terzian¹, Lawrence Pick², Karen Garrido-Nag², Daniel Koo², J. Cara Pendergrass¹

¹William James College, Newton, MA, USA. ²Gallaudet University, Washington, D.C., USA

31 Narrowing of Semantic Scope in Narrative Production in Post-Stroke Aphasia

Celia P Litovsky¹, Ann Marie Finley¹, Bonnie Zuckerman¹, Matthew Sayers¹, Julie A Schoenhard¹, Yoed Kenett², Jamie Reilly¹

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32 Examining Sequential Effects on Oral Reading Response Time and Accuracy in Older Adults and People with Aphasia

Sachi Paul¹, Vivian Dickens¹, Andrew T. DeMarco¹, Candace M. van der Stelt¹, Sarah F. Snider¹, Elizabeth H. Lacey^{1,2}, Elizabeth L. Dvorak¹, Peter E. Turkeltaub^{1,2}

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33 Burden Negatively Impacts Attention in Caregivers of Persons with TBI

Sheila Mae C Park¹, Shirrit Kamil-Rosenberg², J Kaci Fairchild^{3,2,4}

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34 A Prospection Intervention Engenders Greater Episodic Specificity

Chelsey M Maxson, Bethany Gorter, Stuart Hall

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35 Predictors of Social Participation Outcome After Rehabilitation for Traumatic Brain Injury

Marie-Claude Guerrette^{1,2}, Michelle McKerral^{1,2}

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36 Not so Gentle in to that Good Night: Linking High-Risk Behavior and Neurotrauma

Kristine C. Dell, Jason Staph, Frank G. Hillary

The Pennsylvania State University, University Park, PA, USA

37 Performance on Brief Cognitive Screener and its Relationship with Discharge Destination in Traumatic Brain Injury Patients

Gabriela Nordeman, Dov Gold, Kendal L Maxwell

Cedars Sinai Medical Center, Los Angeles, CA, USA

38 A Systematic Review of Heart Rate Variability Biofeedback Treatment Following Traumatic Brain Injury

Leah D. Talbert, MS¹, Zoey Kaelberer¹, Emma Gleave¹, Annie Driggs¹, Ammon Driggs¹, Patrick R. Steffen, PhD¹, Michael J. Larson, PhD^{1,2}

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39 History of Traumatic Brain Injury Predicts Criminality in Individuals who are Incarcerated

Brett S Schneider, Michael Koenigs

40 Encoding, Consolidation, and Retrieval Performances in Monolingual and Bilingual Traumatic Brain Injury Survivors

Bethany A Nordberg¹, Isabel D Munoz¹, Daniel W Lopez-Hernandez¹, Selina Mangassarian¹, Krissy E Smith¹, Enrique Lopez¹, Pavel Y Litvin¹, Alexis Bueno¹, Carolina Garza Castañeda², Rachel A Rugh-Fraser¹, Sarah Fatoorechi¹, David J Hardy³, Paul Vespa⁴, Joaquin M Fuster⁴, David A Hovda⁴, David McArthur¹, Deborah Budding¹, Ellen Woo⁵, Matthew J Wright¹

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41 Bilingualism and Verbal Fluency in Traumatic Brain Injury

Allyson M Ayson¹, Alexis Bueno¹, Bethany A Nordberg¹, Pavel Y Litvin¹, Amy Bichlmeier¹, Nick Graub¹, Isabel D Munoz^{1,2}, Carolina Garza Castañeda³, Marina Piñeiro⁴, Paul Vespa^{5,6}, David A Hovda⁶, David McArthur¹, Deborah Budding¹, David J Hardy⁷, Richard Everson¹, Ellen Woo⁸, Kristina E Smith^{1,9}, Daniel W Lopez-Hernandez¹, Matthew J Wright¹

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42 Speeded Attention, Bilingualism, and Functional Outcome Following TBI

Kristina E Smith^{1,2}, Bethany A Nordberg¹, Daniel W Lopez-Hernandez¹, Isabel D Munoz^{1,3}, Sarah Saravia^{1,4}, Carolina Garza⁵, Tara L Victor², Sarah Fatoorechi⁶, Selina Mangassarian⁶, Enrique Lopez¹, Paul M Vespa^{7,8}, Alexis Bueno¹, David A Hovda⁸, David McArthur¹, Deborah Budding¹, Ellen Woo⁴, David J Hardy⁹, Pavel Y Litvin¹, Matthew J Wright¹, Joaquin M Fuster¹⁰

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43 The Influence of Mood on Cognitive Performances in Retired Football Players

Sarah Saravia^{1,2}, Daniel W Lopez-Hernandez¹, Bethany Nordberg¹, Alexis Bueno¹, Nick Graub¹, Winter Olmos^{1,3}, Raymundo Cervantes^{1,4}, Isabel D Munoz^{1,5}, Jasman Sidhu^{1,3}, Krithika Sivaramakrishnan⁶, Ana Paula Pena⁷, Robert C Cantu⁸, Kevin M Guskiewicz⁹, Daniel F Kelly⁹, Ronald Swerdloff¹, David J Hardy¹⁰, Richard Everson¹, Todd Zorick¹, Ellen Woo³, Matthew J Wright¹

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44 The Association of Perceived Workload and Episodic Memory in Traumatic Brain Injury

Winter Olmos^{1,2}, Daniel W Lopez-Hernandez¹, Sarah Saravia^{1,2}, Bethany A Nordberg¹, Rachel A Rugh-Fraser¹, Abril J Baez^{1,2}, Isabel D Munoz^{1,3}, Paul M Vespa^{4,5}, Nick Graub¹, David A Hovda⁵, Joaquin M Fuster⁶, Deborah Budding¹, Ellen Woo², Alexis Bueno¹, Pavel Y Litvin¹, Matthew J Wright¹, David J Hardy⁷

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45 Obstructive Sleep Apnea Severity and Cognitive Outcome in Acute Moderate/Severe TBI: A TBI Model Systems Study

Kayla A. Steward¹, Xinyu Tang², Lara Wittine^{1,3}, Kristen Dams-O'Connor⁴, Marc A. Silva^{1,5}, Prathusha Maduri⁴, Risa Nakase-Richardson^{1,5,6}

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46 The Role of Depressive Symptoms on Perceived Workload of Verbal and Design Fluency in a TBI Sample

Amy Bichlmeier¹, Daniel W Lopez-Hernandez¹, Sarah Saravia¹, Isabel D Munoz¹, Raymundo Cervantes¹, Bethany A Nordberg¹, Alexis Bueno¹, Jasman Sidhu¹, Adriana Cuello², Sofía Cantú², Paul M Vespa³, David McArthur¹, David A Hovda³, Deborah Budding¹, Ellen Woo⁴, David J Hardy⁵, Matthew J Wright¹

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47 Perceived Workload on Boston Naming Test and Hooper Visual Organization Test in Latinx and Caucasians with Traumatic Brain Injury

Juan P Hernandez^{1,2}, Abril J Baez^{1,2}, Daniel W Lopez-Hernandez¹, Bethany A Nordberg¹, Isabel D Munoz^{1,3}, Jasman Sidhu^{1,2}, Rachel A Rugh-Fraser¹, Krithika Sivaramakrishnan⁴, Enrique Lopez¹, Deborah Budding¹, Pavel Y Litvin¹, David Hovda⁵, David L McArthur¹, Ellen Woo², Alberto L Fernandez⁶, Matthew J Wright¹, David J Hardy⁷

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48 Metacognitive Accuracy Predicts Self-Reported Measures of Quality of Life Following Traumatic Brain Injury

Michael J Walsh¹, Karen Hux², Kathy S Chiou¹

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49 Functional Outcome in Chronic Traumatic Brain Injury: Goal Attainment in Rehabilitation

Jillian M. Tessier¹, Maria T. Schultheis²

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50 Rehabilitation of executive functions in frontal traumatic brain injury: case report

Karen A Flores¹, Bernarda Téllez², Gabriela Ramírez³

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51 Pain Related to Perceived and Objective Cognitive Function after Moderate to Severe Traumatic Brain Injury

Rachael L. Snyder¹, Christopher S. Waller¹, Karen A. Hux², Kathy S. Chiou¹

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52 Perceived Financial Vulnerability among People with a History of Moderate to Severe Traumatic Brain Injury

Evan Z Gross¹, Robin A Hanks²

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53 Injury Severity Predicts Social Competence and Degradation of White Matter Fiber Tracts Associated with Social Cognition in Children with Traumatic Brain Injury

Scout Crowell¹, Peyton Thomas¹, Eric Nelson¹, Whitney I Mattson¹, Holly Aleksonis², Hanan Guzman³, Young Jin Kim¹, Warren Lo¹, Kathryn Vannatta¹, William A Cunningham⁴, Elisabeth A Wilde⁵, Keith Owen Yeates⁶, Kristen R Hoskinson¹

¹Nationwide Children's Hospital, Columbus, OH, USA. ²Georgia State University, Atlanta, GA, USA. ³Texas A&M University, College Station, Texas, USA. ⁴University of Toronto, Toronto, Ontario, Canada. ⁵University of Utah, Salt Lake City, Utah, USA. ⁶University of Calgary, Calgary, Alberta, Canada

54 Characterizing the Relationship Between Executive Functioning and Social/Emotional Behaviors Following a Severe Pediatric Traumatic Brain Injury

Lakia Kearson¹, Stephanie Felgoise¹, Michael B. Roberts¹, Sue R. Beers², Nina H. Thomas³

¹Philadelphia College of Osteopathic Medicine, Philadelphia, PA, USA. ²University of Pittsburgh School of Medicine, Pittsburgh, PA, USA. ³University of Pennsylvania, Philadelphia, PA, USA

55 Psychosocial Risk in Pediatric TBI: Reliability of the Psychosocial Assessment Tool

Aboli A. Kesbhat, Amery Treble-Barna

Department of Physical Medicine and Rehabilitation, University of Pittsburgh School of Medicine, Pittsburgh, Pennsylvania, USA

56 Regional Cortical Thickness Correlates of Intellectual Abilities Differ in Children with Traumatic Brain Injury vs. Orthopedic Injury

Tricia L. Merkley¹, Colt Halter¹, Benjamin Graul¹, Shawn D. Gale¹, Chase Junge¹, Madeleine Reading¹, Sierra Jarvis¹, Kaitlyn Greer¹, Chad Squires¹, Keith O. Yeates², Erin D. Bigler¹, H. Gerry Taylor³, Kenneth Rubin⁴, Cynthia A. Gerhardt⁵, Terry Stancin⁶, Derin Cobia¹

¹Brigham Young University, Provo, UT, USA. ²University of Calgary, Calgary, Alberta, Canada. ³Case Western Reserve University, Cleveland, OH, USA. ⁴University of Maryland, College Park, MD, USA. ⁵The Ohio State University, Columbus, OH, USA. ⁶MetroHealth Medical Center, Cleveland, OH, USA

57 Diurnal Salivary Alpha-Amylase and Behavioral Outcomes in Children with Traumatic Injuries

Mary R Prasad¹, Tammy D Tolar², Linda Ewing-Cobbs¹

¹McGovern Medical School, Houston, Texas, USA. ²Tolar Analytics, Houston, Texas, USA

58 Racial, Health Insurance, and Urban-Rural Disparities in Rehabilitation Utilization and Unmet Needs Among Pediatric Patients with Traumatic Brain Injury (TBI)

Lauren M Kaseman, Amery Treble-Barna

Department of Physical Medicine & Rehabilitation, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

59 Cortical Thickness and Subcortical Volume Does Not Mediate Sex Differences in Visuospatial Processing

AnneMarie Teti, Jennifer Gess, Jennifer Kleiner, Andrew James

University of Arkansas for Medical Sciences, Little Rock, Arkansas, USA

60 The Reliability and Validity of a Novel Mental Rotation Task

Ryan D. Mulligan¹, Michael R. Basso², Jordan Hoffmeister¹, Brian Boatwright³, Douglas M. Whiteside⁴, Dennis Combs⁵

¹University of Tulsa, Tulsa, OK, USA. ²Mayo Clinic, Rochester, MN, USA. ³Private Practice, Tulsa, OK, USA.

⁴University of Minnesota, Iowa City, Minnesota, USA. ⁵University of Texas at Tyler, Tyler, Texas, USA

61 Age Cohort Moderates the Relationship Between Visuospatial Intellectual Functioning and Recall for Meal Preparation in Virtual Reality

Michael J Persin, Carmen Chek, Danielle R Haedesty, Dolores A Freeze, Emma A Barr, Sarah E Gerrels, Cameron H Bayer, Allyson M Coldiron, Michael D Barnett

University of Texas at Tyler, Tyler, TX, USA

62 Effect of vertical prism adaptation on line bisection judgments in a computerized landmark task

Aleksandra Mańkowska¹, Kenneth M. Heilman², Michał Harciarek¹

¹University of Gdańsk, Institute of Psychology, Division of Neuropsychology, Gdańsk, Poland. ²University of Florida, Gainesville, USA

Coffee Break

12:30 - 1:00pm Wednesday, 2nd February, 2022

***LIVE* Invited Symposium 1: Inclusive and Open Science to Improve Research --
Chair: Neda Jahanshad Presenters: Kristine J. Ajrouch, Carrie Esopenko, Miguel E. Rentería**

1:00 - 2:25pm Wednesday, 2nd February, 2022



Chair: Neda Jahanshad, PhD

Associate Professor of Neurology and Biomedical Engineering

University of Southern California

Invited Symposium 1: Inclusive and Open Science to Improve Research

Abstract & Learning Objectives:

In this symposium, we will have four talks designed to introduce ongoing research directions related to open science. We will give an overview of consortium efforts dedicated to defining internationally viable neuroimaging biomarkers and risk factors for brain disorders, with specific emphasis on the ongoing efforts within the ENIGMA consortium. We will highlight the multifaceted concepts related to “open science”, from pre-registration of project aims, to available workflows, algorithms, and data, to detailed methodology and accessible publications. We will discuss and give specific examples of how groups around the world have come together to participate in neuroscience research that not only boosts power for scientific discovery, but does so reliably and across many populations, including people from underrepresented groups and regions. We describe how these advances in inclusivity allow not only for researchers to find common neurological signatures across populations, but also empower population specific sources of variability.

Upon conclusion of this course, learners will be able to:

- Plan and design a multi-cohort neuroimaging study
- Recognize how to use open or shared data to improve statistical power, replicate findings and compare/generalize results to that of diverse populations
- Identify ways to use and contribute to open science

Instructional Level: Intermediate

Chair Biography:

Dr. Neda Jahanshad is an Associate Professor of Neurology and Biomedical Engineering at the USC Mark and Mary Stevens Neuroimaging and Informatics Institute at the University of Southern California, working to bridge AI, informatics, and data science and engineering with neurology and psychiatry. Dr. Jahanshad is director of USC's Laboratory of Brain eScience and associate director of the international neuroimaging consortium ENIGMA, which conducts harmonized analyses across tens to hundreds of groups world-wide to reliably study the brain in health and disease as observed using neuroimaging. In particular, Dr. Jahanshad co-leads two ENIGMA working groups -- one on the neurological effects of HIV infection, and another on suicidal thoughts and behaviors. Dr. Jahanshad's research focuses on brain structure, microstructure, and connectivity throughout the lifespan, determining genetic and environmental factors that contribute to the variability in brain connections and their overall risk for brain dysfunctions, including mental illnesses, developmental and neurodegenerative disorders, and dementias.



Kristine J. Ajrouch, PhD

Dr. Kristine J. Ajrouch is Co-Director of the Michigan Center for Contextual Factors in Alzheimer's Disease (MCCFAD), located at the University of Michigan. She is also Professor of Sociology at Eastern Michigan University. Her research has focused, for over twenty years, on Arab Americans beginning with ethnic identity formation among adolescent children of immigrants followed by the study of social relations, aging and health. Dr. Ajrouch is currently leading two research projects around Alzheimer's disease (AD) in the Arab American community. The first, funded by the National Institute of Aging, aims to establish prevalence levels of AD among Arab Americans aged 65 and older in the metro Detroit area. The second, funded by the Michigan Health Endowment Fund, will adapt an AD caregiver intervention program to meet the needs of Arab American families.



Carrie Esopenko, PhD

Dr. Carrie Esopenko is an Assistant Professor at Rutgers Biomedical and Health Sciences in the Department of Rehabilitation and Movement Science, and is a Full Faculty Member in the School of Graduate Studies and Department of Kinesiology and Applied Physiology. She is the Rutgers Principal Investigator for the Big 10/Ivy League Epidemiology of Concussion Study and a member of the study advisory committee. She is also the Lead Investigator of the ENIGMA Intimate Partner Violence (IPV) Working Group and a member of the Sports-Related Brain Injury, Military, and TBI Working Groups. Her research focuses on developing sex-specific prevention strategies for sports-related concussion and examining the psychiatric, cognitive, and neuronal signatures of IPV-related head trauma.



Miguel E. Rentería, PhD

Dr. Miguel E. Rentería is a human geneticist and neuroscientist with >10 years of experience applying computational and statistical approaches in large multidimensional studies to generate insights into the etiology and mechanisms of brain-related disorders. He is also a passionate advocate of diversity in medical research, and is involved in several projects to increase the representation of diverse populations in genetic studies.

Currently, Dr. Rentería is an NHMRC-ARC Research Fellow at the QIMR Berghofer Medical Research Institute in Brisbane, Australia, and an Atlantic Lifelong Fellow for Equity in Brain Health at the Global Brain Health Institute (GBHI), University of California, San Francisco. His research interests encompass the identification of genetic and neuroimaging biomarkers for complex psychiatric and neurological disorders. Dr. Rentería is interested in multiple conditions including depression, chronic pain, sleep apnea, self-harm behavior, and neurodegenerative diseases such as Alzheimer's and Parkinson's, and Lewy body dementia. He is co-chair the ENIGMA Suicidal Thoughts and Behaviors (STB) working group, a worldwide research initiative pooling neuroimaging, clinical, psychosocial, and cognitive data from >20,000 people with and without STBs collected at >60 research institutions worldwide, and is a founding member of the International Suicide Genetics Consortium (ISGC). Dr. Rentería is the PI of the Australian Genetics of Parkinson's disease study, part of the Global Parkinson's Genetics Program, and co-established MEX-PD, a multicenter cohort study of Parkinson's disease patients in Mexico, within the Latin American Research Consortium on the Genetics of Parkinson's disease (LARGE-PD).

Symposium 07: The International Classification of Cognitive Disorders in Epilepsy (IC-CoDE)

1:00 - 2:25pm Wednesday, 2nd February, 2022

18 The International Classification of Cognitive Disorders in Epilepsy (IC-CoDE)

Chair

Bruce Hermann

University of Wisconsin School of Medicine and Public Health, Madison WI, USA

Discussant

Alberto Fernandez

Universidad Católica de Córdoba, Córdoba, Argentina

551 Introducing the International Classification of Cognitive Disorders in Epilepsy: Establishing Neuropsychology at the Forefront of Clinical and Research Practice.

Sallie Baxendale

University College, London, United Kingdom

552 Taxonomy of Cognitive Diagnoses in >3000 Patients with Temporal Lobe Epilepsy using IC-CoDE

Robyn Busch

Cleveland Clinic Lerner College of Medicine, Cleveland, Ohio, USA

553 Testing the Worldwide Applicability of the IC-CoDE: Cognitive Phenotypes in ENIGMA-Epilepsy

Carrie R. McDonald

University of California, San Diego, San Diego, CA, USA

555 Cultural Considerations for the IC-CoDE: Implementing the Sociocultural Framework in the Diagnosis of Cognitive Disorders in Epilepsy

Anny Reyes

University of California, San Diego, San Diego, CA, USA

995 Epilepsy-Associated Neurocognitive Disorders in onchocerciasis-endemic villages in Cameroon

Alfred K. Njamnshi

Brain Research Africa Initiative, Yaoundé, Cameroon. Yaoundé Central (Teaching) Hospital, Yaoundé, Cameroon. The University of Yaoundé, Yaoundé, Cameroon

Paper Session 07: Pediatric

1:00 - 2:25pm Wednesday, 2nd February, 2022

1 Reduced Neural Synchrony in Children with Prenatal Zika Exposure

Karen Blackmon¹, Ahmet Omurtag², Thomas Thesen³, Randall Waechter⁴, Barbara Landon⁴, Kemi S Burgen⁴, Roberta Evans⁵, Dennis Dlugos⁶, Geetha Chari⁷, A Desiree LaBeaud⁸, Samah A Baki⁹

¹Mayo Clinic, Jacksonville, FL, USA. ²Nottingham Trent University, Nottingham, United Kingdom. ³University of Houston Medical School, Houston, Texas, USA. ⁴St George's University, St George's, Grenada. ⁵Windward Islands Research and Education Foundation, St George's, Grenada. ⁶Children's Hospital of Pennsylvania, Philadelphia, PA, USA. ⁷SUNY Downstate Health Sciences University, New York, NY, USA. ⁸Stanford University, Stanford, California, USA. ⁹Biosignal Group Inc, Acton, MA, USA

2 Innate vs. Adaptive Immunity is Associated with Brain Structure and Neuropsychological Function in Pediatric Crohn's Disease

Christine Mrakotsky^{1,2}, Vanessa Mitsialis^{1,2}, Ally Eran¹, Anna Prohl¹, Michael Field¹, Simon Warfield^{1,2}, Scott Snapper^{1,2}

¹Boston Children's Hospital, Boston, MA, USA. ²Harvard Medical School, Boston, MA, USA

3 The Association Between Objective Sleep Quality and Neurocognitive Functioning in Pediatric Sickle Cell Disease

Tiffany D Tucker¹, Julie Trapani¹, Victoria Seghatol-Eslami¹, Karthik Reddy¹, Sarah McGilvray¹, Shreya Grandhi¹, Chien-Chien Lee¹, Ammar S Alishlash², Jeffrey Lebensburger², Smita Bhatia², Donna Murdaugh¹

¹The University of Alabama at Birmingham, Birmingham, Alabama, USA. ²UAB School of Medicine, Birmingham, Alabama, USA

4 The Role of Infant Sleep in the Relationship Between Cumulative Risk and Infant Social-Emotional Development

Michelle Lobermeier¹, Angela D Staples¹, Catherine Peterson¹, Renee Lajiness-O'Neill^{1,2}

¹Eastern Michigan University, Ypsilanti, MI, USA. ²University of Michigan, Ann Arbor, MI, USA

5 Efficacy of Computerized Cognitive Training for Cognitive Deficits in Neurofibromatosis Type 1: A Randomized Trial

Kristina K Hardy^{1,2}, Christina M Sharkey¹, Kaitlyn Tiplady¹, Hannah Weisman¹, Belinda Barton³, Tena Rosser⁴, Jonathan M Payne⁵, Karin S Walsh^{1,2}, Nicole J Ullrich⁶, Kathryn North⁵, Maria T Acosta⁷

¹Children's National Hospital, Washington, DC, USA. ²The George Washington University Medical Center, Washington, DC, USA. ³The Children's Hospital at Westmead, Westmead, NSW, Australia. ⁴Children's Hospital Los Angeles, Los Angeles, California, USA. ⁵Murdoch Children's Research Institute, Parkville, Victoria, Australia. ⁶Boston Children's Hospital, Boston, Massachusetts, USA. ⁷National Institutes of Health, Bethesda, Maryland, USA

6 Exploration of a Multidimensional Outcomes Model for the Effectiveness of Pediatric Neuropsychological Evaluations: The Relationship Between Parent Satisfaction and Impact on Child Services

Stephanie K Powell^{1,2}, Erin T Kaseda^{3,1}, Clayton D Hinkle^{1,2}, Lizabeth L Jordan^{1,2}, Megan N Scott^{1,2}, Frank A Zelko^{1,2}

¹Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA. ²Northwestern University Feinberg School of Medicine, Chicago, IL, USA. ³Rosalind Franklin University School of Medicine, Chicago, IL, USA

Paper Session 08: Assessment

1:00 - 2:25pm Wednesday, 2nd February, 2022

1 Why Bother with Base Rates? Limitations of Performance Validity Tests in Dementia Evaluations of Older Adults

Charles E Gaudet^{1,2}, Brian C Castelluccio^{1,2}, Dov Gold^{1,2}, Stephen Correia^{1,2}, Nicole McLaughlin^{1,2}

¹Alpert Medical School, Brown University, Providence, RI, USA. ²Butler Hospital, Providence, RI, USA

2 The Influence of Conventional Versus Robust Norming on Cognitive Characterization and Differential Diagnosis of MCI and Dementia

Alyssa N Kaser¹, Andrew M Kiselica²

¹UT Southwestern, Dallas, Texas, USA. ²University of Missouri, Columbia, Missouri, USA

3 External Context Predicts Subjective Cognitive Complaints

Molly B Tassoni, Tania Giovannetti

Temple University, Philadelphia, PA, USA

4 Demographically Adjusted Normative Study of Everyday Cognition in the ACTIVE Sample

Jacob A Fiala¹, Joshua Owens¹, Lindsay J Rotblatt¹, Brad P Taylor¹, Kelsey R Thomas², Michael Marsiske¹

¹University of Florida, Gainesville, Florida, USA. ²University of California San Diego, San Diego, California, USA

5 Estimates of Education Quality Reduce Race/Ethnicity Differences in MoCA Classification of Cognitive Impairment

Nicole D Evangelista¹, Jacob Fiala¹, Shellie-Anne Levy¹, Alexandra L Clark², Vanessa Dominguez³, Kristin Calfee¹, Emily J Van Etten⁴, Stacey Alvarez-Alvarado¹, Jessica N Kraft¹, Cheshire Hardcastle¹, Hanna K Hausman¹, Kailey G Langer¹, Andrew O'Shea¹, Alejandro Albizu¹, Emanuel M Boutzoukas¹, Pradyumna K Bharadwaj⁴, Hyun Song⁴, Samantha G Smith⁴, Steven DeKosky¹, Georg A Hishaw⁴, Samuel Wu¹, Eric S Porges¹, Gene E Alexander⁴, Ronald Cohen¹, Michael Marsiske¹, Adam J Woods¹

¹University of Florida, Gainesville, FL, USA. ²University of Texas at Austin, Austin, Texas, USA. ³University of Nebraska-Lincoln, Lincoln, Nebraska, USA. ⁴University of Arizona, Tuscon, Arizona, USA

6 The Structure of Attention

Paul T. Cirino, Abigail Farrell

University of Houston, Houston, TX, USA

Early Career Award Presentation -- Porrselvi Ammaiappan Palanisamy -- Technology for Resource Optimization: TAM Battery, a Neuropsychological Patient Management System

1:00 - 2:25pm Wednesday, 2nd February, 2022



Technology for Resource Optimization: TAM Battery, a Neuropsychological Patient Management System

Correspondence:

Porrselvi Ammaiappan Palanisamy, PhD

Unified Brain Health Care, Chennai, India

porrselvi@ubhcare.com; www.tambattery.in

Abstract:

As neuropsychology is expanding across the world, there is increasing awareness that testing in the most proficient language is crucial for sensitivity of an assessment. Although neuropsychologists are working with their counterparts in other countries, there is a dearth of assessments available in respective native languages.

In Tamil Nadu as well as the rest of India, like in many other parts of the world, the very few neuropsychologists are concentrated in the Tier 1 cities leaving a void in access to evidence based healthcare for significant sections of populations.

In addition to these limitations, the lack of insurance coverage for neuropsychology or rehabilitation makes neuropsychological assessment or management a dispensable option for them. So, in a busy clinic with limited time and space, the neuropsychologist must assess, interpret, give feedback and recommendations for meagre charges through private pay, and hence cannot afford an interpreter, a psychometrician, or an assistant.

These are some of the deficiencies in resources that TAM Battery addresses by harnessing the advantages of technology. It is a secure patient management system with a comprehensive neuropsychological assessment with 16 stand-alone tests that can be chosen as per requirements, 9 of them newly developed, and covers all the usual cognitive domains as well as a quick screen, a measure of pre-morbid functioning, performance validity, and supplementary questionnaires and checklists for examining mood, quality of life, activities of daily living checklists, and medical/cognitive history. It is clinician friendly and allows for retesting, baseline comparison and reporting with automatic norm comparison.

There is user-friendly provision for addition of more languages that the test battery can be administered in after appropriate linguistic translation and validation. This is essential for multilingual cultures like India and can facilitate cross-cultural research. Other technology driven resource optimization enabled by TAM Battery are- tele-evaluation, computer assisted test administration with improved standardization, semi-automated scoring, zero prep time and paperless that requires no physical space for storage. It is dynamically normed to facilitate updated population derived norms that removes the need for a single large study that will demand research funds and resources that are not readily available.

Poster Session 06: MCI | Aging | Memory | Psychopharm

1:00 - 2:00pm Wednesday, 2nd February, 2022

1 Machine Learning Identifies Neurocognitive Measures as Most Predictive Modality of Functional Decline in Older Adults

Kate E Valerio, Sarah Prieto, Alexander N Hasselbach, Jena N Moody, Scott M Hayes, Jasmeet P Hayes

The Ohio State University, Columbus, OH, USA

2 Principal Component Analysis of Neuropsychological Test Data and Relationship to Age in the SIU Longitudinal Cognitive Aging Study.

Madison G. Hollinshead¹, Albert Botchway¹, Gabriella L. Weybright¹, Ronald F. Zec², Thomas A. Ala², Erin R. Hascup², M. Rebecca Hoffman³, Amber Fifer¹, Kathleen E. Schmidt⁴, Mehul A. Trivedi⁵

¹Center for Clinical Research, SIU School of Medicine, Springfield, Illinois, USA. ²Department of Neurology, SIU School of Medicine, Springfield, Illinois, USA. ³Center for Family and Community Medicine, Alton, Illinois, USA.

⁴Department of Psychology, Carbondale, Illinois, USA. ⁵Department of Psychiatry, SIU School of Medicine, Springfield, Illinois, USA

3 Higher Insulin Resistance Relates to Worse Cognition in Black Older Adults

Alyx L. Shepherd, Sarah J. Banks, Kacie D. Deters, [Rachel A. Bernier](#)

University of California San Diego, San Diego, CA, USA

4 Social Interaction as a Functional Marker of Cognitive Decline in Older Adults

[Molly Split](#), Kathryn N. Devlin, Maria T. Schultheis

Drexel University, Philadelphia, PA, USA

5 Serial Position Effects' Prognostic Utility in Healthy Aging and Mild Cognitive Impairment: A Systematic Review

[Melissa Pocsai](#)¹, Aditya Kulkarni¹, Vivian Q Chu¹, Isabelle K Avildsen¹, Laura A Rabin², Joel Erbllich³, Nancy S Foldi¹

¹Queens College, CUNY, New York, NY, USA. ²Brooklyn College, CUNY, New York, NY, USA. ³Hunter College, CUNY, New York, NY, USA

6 Neuropsychological Correlates of the Shared Variance Between Everyday Functioning and Brain Volumetrics

[Robert P. Fellows](#)^{1,2}, Katherine J. Bangen^{1,2}, Lisa V. Graves^{1,2}, Mark W. Bondi^{1,2}

¹VA San Diego Healthcare System, San Diego, CA, USA. ²University of California, San Diego, San Diego, CA, USA

7 Explaining Informant-Rated IADLs in Individuals With and Without Cognitive Impairment in The Aging, Demographics, and Memory Study (ADAMS)

[Kendra L Pizzonia](#), Julie A Suhr

Ohio University, Athens, Ohio, USA

8 Predictors of Time to Nursing Home Placement Among Patients with Dementia in the National Alzheimer's Coordinating Center Database

[Hudaisa Fatima](#), Jeff Schaffert, Linda S Hynan, Christian LoBue, Allison Parker, Jessica Helphrey, Will Goette, Laura Lacritz, John Hart, C. Munro Cullum

University of Texas Southwestern Medical Center, Dallas, Texas, USA

9 Neuropsychological Profiles of Time to Conversion from Mild Cognitive Impairment to Alzheimer's Disease

Allison N Parker, Shawn M. McClintock, Trung Nguyen, Linda Hynan, Heidi Rossetti, C. M Cullum
UT Southwestern Medical Center, Dallas, TX, USA

10 Anosognosia: Our ongoing lack of awareness

Aya Haneda, Christopher Krause, Maureen Lacy
The University of Chicago, Chicago, Illinois, USA

11 The Associations Between Primacy and Subjective Everyday Cognitive Functioning are Task-Dependent

Daniel Weitzner, Eathan Breaux, Matthew Calamia
Louisiana State University, Baton Rouge, LA, USA

12 Procedural Learning, Declarative Learning, and Working Memory as Predictors for Memory Compensation Training Efficiency in Persons with Amnestic Mild Cognitive Impairment

Liselotte De Wit^{1,2}, Shellie-Anne Levy¹, Andrea M Kurasz¹, Priscilla Amofa¹, Brittany DeFeis¹, Deirdre M O'Shea³,
Melanie J Chandler⁴, Glenn E Smith¹

¹University of Florida, Gainesville, FL, USA. ²Emory University, Atlanta, GA, USA. ³Brown University, Providence, RI, USA. ⁴Mayo Clinic, Jacksonville, FL, USA

13 Neural Changes and Neuropsychiatric Symptoms in Amnestic Mild Cognitive Impairment

Molly A Mather, Rebecca E Ready
University of Massachusetts Amherst, Amherst, MA, USA

14 Factors Affecting Mental Health Trajectories in Partners of MCI Patients

Gelan Ying¹, Dona E. C. Locke², Melainie J Chandler³, Anne L Shandera-Ochsner⁴, Glenn Smith¹

¹University of Florida, Gainesville, FL, USA. ²Mayo Clinic, Pheonix, Arizona, USA. ³Mayo Clinic, Jacksonville, Florida, USA. ⁴Mayo Clinic, La Cross, Wisconsin, USA

15 Background Music and Recognition Memory in Amnestic Mild Cognitive Impairment

Marco Calabria¹, Nicholas Grunden^{2,3}, Francesco Ciongoli¹, Celia Ordás⁴, Carmen García-Sánchez⁵

¹Faculty of Health Sciences, Universitat Oberta de Catalunya, Barcelona, Spain. ²Concordia University, Montreal, Canada. ³Universitat Pompeu Fabra, Barcelona, Spain. ⁴Instituto de Investigación Sanitaria Gregorio Marañón,

Barcelona, Spain. ⁵Neuropsychology Unit, Neurology Department, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain

16 Discerning the Impact of COVID-19 on Cognitive Decline in the Elderly: A Case Series Investigation

Aimee M Giammittorio

University of Texas Medical Branch, Galveston, TX, USA

17 Factors predicting adherence to behavioral interventions in participants with amnesic Mild Cognitive Impairment (aMCI)

Ambar R Perez-Lao¹, Liselotte De Wit¹, Brittany DeFeis¹, Andrea M Kurasz¹, Priscilla A Amofa Sr¹, Melanie Chandler², Shellie-Anne Levy¹, Glenn Smith¹

¹University of Florida, Gainesville, Florida, USA. ²Mayo Clinic, Jacksonville, Florida, USA

18 Examining Heterogeneity in Depression Symptoms in Those with MCI: A Factor Mixture Modeling Approach

Ross Divers, Anthony Robinson, Matthew Calamia

Louisiana State University, Baton Rouge, Louisiana, USA

19 Pupillary Responses During HVLTL Learning Trials Differentially Predicts Retention in Cognitively Normal Older Adults and Individuals with MCI

Alyssa J Macomber, Alexandra J Weigand, Jeremy A Elman, Christophe Delay, Peter Link, Seraphina K Solders, Mark W Bondi, Eric L Granholm

University of California, San Diego, San Diego, CA, USA

20 Improvement During Inductive Reasoning Training is Associated with Lower Odds of Baseline and Incident Mild Cognitive Impairment

Brad P Taylor¹, Kelsey R Thomas², George W Rebok³, Sherry L Willis⁴, Michael Marsiske¹

¹University of Florida, Gainesville, Florida, USA. ²University of California San Diego, San Diego, California, USA.

³Johns Hopkins University, Baltimore, Maryland, USA. ⁴University of Washington, Seattle, Washington, USA

21 The Cognitive Change Index (CCI-40): Broadening the Assessment of Subjective Cognitive Concerns in Demographically Diverse Community Dwelling Older Adults

Caroline O. Nester¹, Jaqueline A. Mogle², Mindy J. Katz³, Andrew J. Saykin⁴, Richard B. Lipton³, Laura A. Rabin⁵

¹The Graduate Center and Queens College, City University Of New York, New York, New York, USA. ²The Pennsylvania State University, University Park, Pennsylvania, USA. ³Albert Einstein College of Medicine, Bronx, New York, USA. ⁴Indiana University School of Medicine, Indianapolis, Indiana, USA. ⁵Brooklyn College, City University of New York, New York, New York, USA

22 Diagnostic Validity Comparisons of MMSE and ADAS-Cog Using CSF Tau

Savannah Wiersig, Lauren Bennett

Pickup Family Neurosciences Institute, Newport Beach, CA, USA

23 Communicative Participation in Older Adults with Mild Cognitive Impairment or Dementia from Alzheimer's Disease

Matthew L. Cohen¹, Alyssa M Lanzi¹, Anna K Saylor¹, Stacy M Harnish²

¹University of Delaware, Newark, DE, USA. ²Ohio State University, Columbus, OH, USA

24 Alzheimer's Disease Biomarkers and Neuropsychiatric Symptoms within a Cross-Cultural Sample

Merike Lang¹, María T. Greig², Mónica Rosselli¹, 1Florida ADRC Investigators^{2,3}

¹Florida Atlantic University, Davie, FL, USA. ²Mount Sinai Medical Center, Miami Beach, FL, USA. ³University of Miami, Miami, FL, USA

25 Can Blood-Based Biomarkers of Neuronal Receptors Predict Cognitive Decline? A Preliminary Study

Sheina Emrani¹, Cassandra DeMarshall², David J Libon¹, Robert Nagele¹

¹Rowan University, Stratford, USA. ²Durin Technology, Stratford, USA

26 Attention Outcomes in Chinese Patients with Hemophilia

Pok Hong Lam¹, Justin Chung Tin Ma², Alex Wing Kwan Leung^{1,3}, Raymond Siu Ming Wong⁴, Chi Kong Li^{1,3,5}, Yin Ting Cheung²

¹Department of Pediatrics, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong.

²School of Pharmacy, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong.

³Department of Paediatrics and Adolescent Medicine, The Hong Kong Children's Hospital, Hong Kong, Hong Kong.

⁴Department of Medicine & Therapeutics, Faculty of Medicine, The Chinese University of Hong Kong, Hong Kong, Hong Kong.

⁵Hong Kong Hub of Paediatric Excellence, The Chinese University of Hong Kong, Hong Kong, Hong Kong

27 Unmasking underlying cardiovascular risk factors through profiles of neuropsychological deficit in midlife: The Bogalusa Heart Study

Ileana De Anda-Duran¹, Lydia A Bazzano¹, Rhoda Au², David J Libon³

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, USA. ²Boston University School of Medicine, Boston, MA, USA. ³Rowan University, Glassboro, NJ, USA

28 Comparison of the Predictive Utility of Various Subjective Cognitive Complaints Using Item Level Data from Everyday Cognition (ECog) Scales

Sarah Tomaszewski Farias, Michelle L Chan, Weakley Alyssa, Jaclyn Fox, Harvey Danielle

UC Davis, Sacramento, USA

29 Stability in the Clinical Diagnosis of Mild Cognitive Impairment and Dementia in European Americans and Hispanic-Latino Americans

Fernanda Arruda¹, Andrea M Kurasz², Monica Rosselli¹, ¹Florida ADRC investigators³

¹Florida Atlantic University, Boca Raton, FL, USA. ²University of Florida, Gainesville, FL, USA. ³Mount Sinai Medical Center, Miami Beach, FL, USA

30 How Many Trials of Backwards Digit Task are Enough? Discriminating Mild Cognitive Impairment Subtypes on the BDT

Kara Eversole¹, Emily F. Matusz², Victor Wasserman³, Sheina Emrani⁴, Bernice Marcopulos^{1,5}, David J. Libon^{3,6}

¹James Madison University, Department of Graduate Psychology, Harrisonburg, VA, USA. ²University of Florida, Department of Clinical and Health Psychology, Gainesville, FL, USA. ³Rowan University, Department of Psychology, Glassboro, NJ, USA. ⁴Brown University, Department of Psychiatry and Human Behavior, Providence, RI, USA. ⁵University of Virginia, Department of Psychiatry and Neurobehavioral Sciences, Charlottesville, VA, USA. ⁶New Jersey Institute for Successful Aging, School of Osteopathic Medicine, Rowan University, Stratford, NJ, USA

31 Personal Medication Regimens and Performance on Medication Management Abilities Assessments in Older Adults

Sarah Norman, Catherine A Sumida, Maureen Schmitter-Edgecombe

Washington State University, Psychology, Pullman, Washington, USA

32 Characterization of Demographics and Cognitive Abilities in Older Adults Undergoing Transurethral Resection of Bladder Tumor

Margaret E Wiggins, Catherine Dion, Katie Rodriguez, Shawna Amini, Paul Crispen, Patrick Tighe, Catherine C Price

University of Florida, Gainesville, FL, USA

33 Cleveland Clinic Cognitive Battery (C3B): Preliminary Validation of a Self-Administered, Digital Tool for Detecting Mild Cognitive Impairment and Early Alzheimer's Disease in a Primary Care Setting

Stephen M. Rao¹, Madelyn Pierce¹, Lisa Penn¹, Anna Sturtevant¹, Michele Quiroga², David Schindler^{3,1}, David Blum³

¹Cleveland Clinic, Cleveland, OH, USA. ²Quiroga and Associates, PA, Coral Gables, FL, USA. ³Qr8 Health, Inc., Boston, MA, USA

34 Cognitive and Functional Change in Patients with Cognitive Impairment during the COVID-19 Pandemic

Jessica L. Saurman¹, Kayci L. Vickers¹, Morgan Andrews², Amy D. Rodriguez¹, Felicia C. Goldstein¹

¹Emory University School of Medicine, Atlanta, GA, USA. ²Mercer University, Atlanta, GA, USA

36 Classification Accuracy of CVLT-II Embedded Validity Indicators in a Simulation Experiment

Michael R. Basso¹, Jordan Hoffmeister², Ryan Mulligan², Douglas Whiteside³, Owen Gaasedelen⁴, Dennis Combs⁵

¹Mayo Clinic, Rochester, MN, USA. ²University of Tulsa, Tulsa, OK, USA. ³University of Minnesota, Minneapolis, MN, USA. ⁴Private Practice, Albuquerque, New Mexico, USA. ⁵University of Texas, Tyler, Texas, USA

37 A Re-Validation of the Toronto Cognitive Assessment (TorCA) for the Prediction of Amnesic Mild Cognitive Impairment

Theone S. E. Paterson^{1,2}, Kathryn A. Stokes², Brian Levine^{3,4}, Angela K. Troyer^{2,4}, Morris Freedman^{2,3,4,5}

¹University of Victoria, Victoria, BC, Canada. ²Baycrest Health Sciences Centre, Toronto, ON, Canada. ³Rotman Research Institute, Toronto, ON, Canada. ⁴University of Toronto, Toronto, ON, Canada. ⁵Mt. Sinai Hospital, Toronto, ON, Canada

38 Personality predictors of compensation in cognitively healthy older adults and individuals with mild cognitive impairment

Sudev Namboodiri, Alyssa Weakley, Sarah Farias

University of California, Davis School of Medicine, Sacramento, CA, USA

39 Perceived Workload on Verbal Memory Performance in Spanish-English Bilingual Traumatic Brain Injury Survivors

Amy Bichlmeier¹, Daniel W Lopez-Hernandez¹, Bethany A Nordberg¹, Winter Olmos¹, Sarah Saravia¹, Alexis Bueno¹, Diana Palacios², Liliana Pacheco Zavala², Viviana Alexa Marché Fernández², Rachel A Rugh-Fraser¹, Enrique

Lopez¹, Pavel Y Litvin¹, David A Hovda³, David L McArthur¹, David Plurad¹, Joaquin M Fuster³, Ellen Woo⁴, David J Hardy⁵, Matthew J Wright¹

¹The Lundquist Institute, Carson, CA, USA. ²Universidad Nacional Autónoma de México, México City, Mexico.

³UCLA, Los Angeles, CA, USA. ⁴CSU Fresno, Fresno, CA, USA. ⁵Loyola Marymount University, Los Angeles, CA, USA

40 Differences in Learning Characteristics in People with Systemic Lupus Erythematosus (SLE)

Simran Kang^{1,2}, Patricia Pehme¹, Claire Carney², Philip Watson²

¹Queens College, CUNY, Flushing, NY, USA. ²The Feinstein Institutes for Medical Research, Northwell Health, Long Island, NY, USA

41 A Moderation Analysis Evaluating the Relationship Between Processing Speed and MoCA Versus RBANS Memory Performances

Shanna K Williams, Maegan R. Hatfield-Eldred, Carlos A. Rodriguez

Spectrum Health, Grand Rapids, Michigan, USA

42 Learning in the Absence of Training: Speed of Learning for Trained and Derived Relations using a Novel Stimulus Equivalence Paradigm

Kylie R Kadey, Jessica L Katschke, Bradley J Dixon, Jonathan L Lundblad, Allison C Moll, John L Woodard

Wayne State University, Detroit, MI, USA

43 Subjective Memory and Spatial Abilities in Patients with Hippocampal Amnesia

Sara Pishdadian^{1,2}, Morris Moscovitch^{3,2}, R. Shayna Rosenbaum^{1,2}

¹York University, Toronto, Ontario, Canada. ²Rotman Research Institute, Toronto, Ontario, Canada. ³University of Toronto, Toronto, Ontario, Canada

44 Relationship Between Serial Position Effect and Salivary Cortisol in Older Adults

Taylor D Lambertus¹, Kathi L Heffner², Julie A Suhr¹

¹Ohio University, Athens, Ohio, USA. ²University of Rochester Medical Center, Rochester, New York, USA

45 Gender Differences in Serial Position Effect in Older Adults

Taylor D Lambertus¹, Kathi L Heffner², Julie A Suhr¹

¹Ohio University, Athens, Ohio, USA. ²University of Rochester Medical Center, Rochester, New York, USA

46 Prefrontal Cortex, Not Medial Temporal Lobe, is Associated with Memory in Middle-Aged Persons with HIV

Laura M Campbell^{1,2}, Christine Fennema-Notestine², Averil Barrett², Erin Sundermann², Mark W Bondi^{2,3}, Rowan Saloner^{1,2}, David B Clifford⁴, Ronald J Ellis², Donald Franklin², Benjamin Gelman⁵, Igor Grant², Robert K Heaton², Scott Letendre², Christina Marra⁶, David J Moore², Susan Morgello⁷, Raeanne C Moore²

¹SDSD/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²UC San Diego, San Diego, CA, USA. ³VA San Diego Healthcare System, San Diego, CA, USA. ⁴Washington University School of Medicine, St. Louis, MO, USA. ⁵University of Texas Medical Branch at Galveston, Galveston, TX, USA. ⁶University of Washington, Seattle, WA, USA. ⁷The Icahn School of Medicine at Mount Sinai, New York, NY, USA

47 Investigation of the Relationship Between Circulating Endocannabinoid Concentrations and Episodic Memory in Preadolescents from the ABCD® Study Cohort

Elizabeth A Stinson¹, Christine M Kaiver¹, Ryan M Sullivan¹, Jocelyn E Jarvis¹, Alexander L Wallace¹, Garrett Sauber^{2,3}, Cecilia J Hillard^{2,3}, Krista M Lisdahl¹

¹University of Wisconsin-Milwaukee, Milwaukee, WI, USA. ²Department of Pharmacology and Toxicology, Medical College of Wisconsin, Milwaukee, WI, USA. ³Neuroscience Research Center, Medical College of Wisconsin, Milwaukee, WI, USA

48 Is Personality Associated With Verbal and Visual Memory In Healthy Young Adults?

Benjamin Fusco-Gessick¹, Eric McConathey¹, Jordan Stiver¹, Malorie Watson¹, Ziyun Wang¹, Adam M Brickman², Molly E Zimmerman¹

¹Fordham University, New York, USA. ²Columbia University Irving Medical Center, New York, USA

49 Emotional Context-Dependent Effect: Perceptual vs. Conceptual processes

Natalie Lugasi¹, Yaron Sachar², Eli Vakil¹

¹Bar Ilan university, Ramat Gan, Israel. ²Lowenstein Hospital, Raanana, Israel

50 The Effect of Participation in Mentally Engaging Activities on Verbal Memory Functioning

Lauren Taylor¹, Amanda Kenepp², Cardinal Do¹, Claire Alexander¹, Kathy Wright³, Christopher M Nguyen¹

¹The Ohio State University College of Medicine, Athens, OH, USA. ²Queens College, CUNY, Queens, NY, USA. ³The Ohio State University College of Nursing, Columbus, OH, USA

51 Elucidating the Relationship between Naming and Verbal Memory

Kanesha S Banks, Janice C Marceaux, Karin JM McCoy

South Texas Veteran's Healthcare System, San Antonio, Texas, USA

52 Co-opting Neuropsychological Measures to Assess Pattern Separation and Perceptual Discrimination: Insights from Hippocampal Amnesia

Krista A Mitchnick¹, R. Shayna Rosenbloom^{1,2}

¹York University, Toronto, Ontario, Canada. ²Rotman Research Institute, Toronto, Ontario, Canada

53 Estimating the Probability of Conversion From Cognitively Healthy to Mild Cognitive Impairment: a Regression Model Based on Brain Folds and Curvatures

Lyna M El Haffaf^{1,2}, Lucas A Ronat^{1,3}, Alexandru Hanganu^{1,2}

¹Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, Montreal, Qc, Canada. ²Faculté des Arts et des Sciences, Département de psychologie, Université de Montréal, Montreal, Qc, Canada. ³Faculté de Médecine, Département de Médecine, Université de Montréal, Montreal, Qc, Canada

54 Neuropsychological Functioning in Early-Stage Anti-IgLON5 Syndrome

Mellisa A Boyle¹, Hannah M Kersting¹, Matthew G Hall¹, Mary E Haines¹, Scott C Wollman²

¹University of Toledo, Toledo, OH, USA. ²Scott Wollman, Lakewood, WA, USA

55 Verbal Fluency Intrusions in Mild Cognitive Impairment and Dementia: A Longitudinal Analysis

Layaly Shihadeh, Leticia Prado, Merike Lang, Daniela Diaz, Daniela Baptiste, Joshua Conniff, Monica Rosselli

Florida Atlantic University, Davie, FL, USA

56 CVD Risk Factors and Neurocognitive Functioning in Older Veterans with Memory Complaints

Elizabeth A Craun, Elizabeth Leritz, Laura Grande

VA Boston Healthcare System, Boston, MA, USA

57 The Effect of Antipsychotics on Processing Speed in Geriatric Neurology Patients

Allison M Nobles, Steven A Rogers

Westmont College, Santa Barbara, CA, USA

58 Healthy Older Adults' Proinflammatory Cytokine TNF- α Levels Predict the Semantic-Relatedness of Consecutively Generated Words in Category Fluency

Joseph Kim^{1,2}, Dustin Hammers³, Jacob Germain⁴, John Hoffman¹, Vincent Koppelmans¹, Kevin Duff¹

¹University of Utah, Salt Lake City, Utah, USA. ²VA Salt Lake City, Salt Lake City, Utah, USA. ³Indiana University, Indianapolis, Indiana, USA. ⁴University of Missouri - Kansas City, Kansas City, Missouri, USA

59 Cognitive Correlates of Everyday Functioning in a Sample of Predominantly Low-Income, Community Dwelling, African-American Older Adults

Ashlyn Runk¹, Meryl A Butters¹, Andrea Rosso², Tamara Dubowitz³, Wendy Troxel³, Tiffany L Gary-Webb², Ann Haas³, Bonnie Ghosh-Dastidar³, Andrea M Weinstein¹

¹University of Pittsburgh, School of Medicine, Pittsburgh, PA, USA. ²University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA, USA. ³RAND Corporation, Pittsburgh, PA, USA

5 min. break

2:25 - 2:30pm Wednesday, 2nd February, 2022

***LIVE* Plenary A: Presidential Address: Thinking of You --- Presenter: Skye McDonald**

2:30 - 3:25pm Wednesday, 2nd February, 2022



Skye McDonald, PhD

President of the International Neuropsychological Society

Professor of Clinical Neuropsychology

University of New South Wales

Plenary A - Presidential Address: Thinking of You

Instructional Level: Intermediate

Abstract & Learning Objectives:

Social cognition has rapidly gained traction as a major domain of neuropsychology, with impairment evident in many clinical disorders. Within this spectrum of abilities, the concept of Theory of Mind (ToM) looms large. ToM is the ability to gauge another person's thoughts, beliefs and intentions. It is necessary in order to make sense of other people's behaviour and to unravel the interpersonal meanings in conversations where speakers frequently do not say what they mean. Clearly ToM plays a pivotal role in social functioning and is, therefore, a direct target for clinical assessment and remediation. Despite this, ToM is rarely assessed by clinicians. Further, debate continues as to whether ToM is a modular ability separate from other cognitive domains, such as executive function. Relatedly there is lack of clarity about how it should be measured (and by whom). In this talk Dr. McDonald will consider neuroimaging, experimental and clinical factors that contribute to an understanding of the nature of ToM. She will discuss the merits of common ToM assessment tasks and the minimum requirements for a clinical measure of ToM. Dr. McDonald will also consider how theoretical and empirical evidence regarding ToM abilities and their neural substrates might be translated into effective remediation strategies.

Upon conclusion of this course, learners will be able to:

- Describe some of the factors that influence ToM ability
- Critique different remediation strategies for improving ToM
- Compare assessment measures for ToM

Speaker Biography:

Dr. Skye McDonald is President of the International Neuropsychological Society and a Professor of Clinical Neuropsychology at the University of New South Wales. She is interested in understanding socio-emotional disorders following brain damage (due to traumatic injuries, neurological disorders, e.g. MS and stroke and degenerative disorders, e.g. Alzheimers) and developmental disorders. Her research has both theoretical and clinical relevance. Professor McDonald's work has direct applications to the assessment and treatment of such disorders.

Live Program Close

3:25 - 3:30pm Wednesday, 2nd February, 2022

INS Awards Ceremony

3:30 - 4:30pm Wednesday, 2nd February, 2022

INS Awards Committee Chair -- **Christian Salas Riquelme**

Major Awards

INS Early Career Achievement Award -- **Porrselvi Ammaiappan Palanisamy** -- Technology for Resource Optimization: TAM Battery, a Neuropsychological Patient Management System

INS Benton Mid-Career Achievement Award -- **Carrie McDonald** presenting on Epilepsy

INS Mentoring Award -- **Stephen Bowden**

Program Awards

Graduate Student Award -- **Micah Savin** (Fordham University) *American Indian and Alaska Native Disparities in Trajectories of Cognitive Aging*

Postdoctoral Fellow Award -- **Siddharth Ramanan** (MRC Cognition and Brain Sciences Unit, The University of Cambridge, Cambridge, Cambridgeshire, United Kingdom; The University of Sydney, Brain and Mind Centre, Sydney, NSW, Australia; The University of Sydney, School of Psychology, Sydney, NSW, Australia; ARC Centre of Excellence in Cognition and its Disorders, Sydney, NSW, Australia) *Charting the Neural and Neurocomputational Bases of Behavioural, Cognitive, and Neuropsychiatric Heterogeneity in Frontotemporal Dementia*

Memory Award -- **Ana Jaquelin Ramos-de Jesus** (Columbia University) *The Effect of Diabetes and Neighborhood Adverse Factors on Memory Functioning*

Student-Liaison Committee Awards

-Graduate Student Awards:

Nicolás Corvalán (Argentina) *Cognitive Consequences of COVID-19: Results from A South American Cohort Study*

Samantha J Feldman (Canada) *Social Cognition and Social-Emotional Outcomes Following Pediatric Stroke*

Christine L Ginalis (USA) *Long-term Impact of Maternal Mental Health During Pregnancy on Subsequent Child Autonomic Modulation and Emotional Regulation*

April C May (USA) *Nicotine and Cannabis Co-Use and Associations with White Matter Health in the Developing Adolescent Brain*

Michelle Melis (Belgium) *The Impact of Mindfulness-Based Interventions On Brain Functional and Structural Connectivity: A Systematic Review*

Travel Awards

Lucia Crivelli (Argentina) *Guidelines for the Practice of Teleneuropsychology in Latin America: Recommendations from the Latin American working Group for Teleneuropsychology*

Nicolás Corvalán (Argentina) *Cognitive Consequences of COVID-19: Results from A South American Cohort Study*

Porrselvi Ammaiappan Palanisamy (India) *TAM Battery: Development and Validation of a Comprehensive Computer- Assisted Test Battery for Testing Cognition of Tamil Speaking Older Adults in India*

Desmond Warren (USA) *Perceived Stress and White Matter Hyperintensities: The Role of Race*

Symposium 01: Neuropsychological Outcomes in Pediatric Stroke: Recent Advances and Future Directions

3:30 - 5:00pm Wednesday, 2nd February, 2022

26 Neuropsychological Outcomes in Pediatric Stroke: Recent Advances and Future Directions

Chair

Lauren Krivitzky

Children's Hospital of Philadelphia, Philadelphia, USA

Discussant

Rich Boada

Children's Hospital Colorado, Denver, USA

703 Psychosocial Outcomes in Pediatric Stroke

Lauren S Krivitzky

Children's Hospital of Philadelphia, Philadelphia, PA, USA. Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, USA

702 Cognitive Outcomes in Pediatric Stroke

Robyn Westmacott

The Hospital for Sick Children, Toronto, ON, Canada

708 Functional Recovery and Rehabilitation in Pediatric Stroke

Christine Mrakotsky

Boston Children's Hospital, Boston, MA, USA. Harvard Medical Center, Boston, MA, USA

711 Functional Imaging Correlates in Pediatric Stroke

Leigh Sepeta

Children's National Medical Center, Washington, DC, USA. National Institute of Neurological Disorders and Stroke, Bethesda, MD, USA

Symposium 02: Assessment and Management of Apathy: A Transdiagnostic View

3:30 - 5:00pm Wednesday, 2nd February, 2022

15 Assessment and Management of Apathy: A Transdiagnostic View

Chair

Fiona Kumfor

University of Sydney, Sydney, Australia

411 Do Effort and Reward Influence Apathy in Behavioural-Variant Frontotemporal Dementia?

Stephanie Wong¹, Campbell Le Heron², Grace Wei¹, John R Hodges¹, Masud Husain³, Olivier Piguet⁴, Muireann Irish¹, Fiona Kumfor¹

¹University of Sydney, Sydney, NSW, Australia. ²New Zealand Brain Research Institute, Christchurch, New Zealand.

³University of Oxford, Oxford, United Kingdom. ⁴University of Sydney, Sydney, Australia

412 A Shared Cognitive and Neural Basis Underpinning Apathy and Planning in Dementia

Fiona Kumfor¹, Peta Eggin¹, Grace Wei¹, John R Hodges¹, Masud Husain², Olivier Piguet¹, Muireann Irish¹, Stephanie Wong¹

¹University of Sydney, Sydney, NSW, Australia. ²University of Oxford, Oxford, United Kingdom

416 Sticky Thinking: An Examination of the Relationships Between Rumination and Reflection with Apathy and Depression Following Severe Traumatic Brain Injury

Travis Wearne, Skye McDonald

University of New South Wales, Sydney, NSW, Australia

847 Examining Apathy in Vietnam – a Country with High Prevalence of Moderate to Severe Traumatic Brain Injury

Halle Quang¹, Skye McDonald¹, Tuong-Vu Nguyen², Fiona Kumfor³

¹University of New South Wales, Sydney, NSW, Australia. ²Cho Ray Hospital, Ho Chi Minh City, Vietnam. ³University of Sydney, Sydney, NSW, Australia

Paper Session 01: Dementia 1

3:30 - 5:00pm Wednesday, 2nd February, 2022

1 Charting the Neural and Neurocomputational Bases of Behavioural, Cognitive, and Neuropsychiatric Heterogeneity in Frontotemporal Dementia

Siddharth Ramanan^{1,2,3,4}, Hashim El-Omar², Daniel Roquet^{2,3,4}, Rebekah M Ahmed^{2,5}, John R Hodges^{2,6}, Olivier Piguet^{2,3,4}, Matthew A Lambon Ralph¹, Muireann Irish^{2,3,4}

¹MRC Cognition and Brain Sciences Unit, The University of Cambridge, Cambridge, Cambridgeshire, United Kingdom. ²The University of Sydney, Brain and Mind Centre, Sydney, NSW, Australia. ³The University of Sydney, School of Psychology, Sydney, NSW, Australia. ⁴ARC Centre of Excellence in Cognition and its Disorders, Sydney, NSW, Australia. ⁵Memory and Cognition Clinic, Department of Clinical Neurosciences, Royal Prince Alfred Hospital, Sydney, NSW, Australia. ⁶The University of Sydney, School of Medical Sciences, Sydney, NSW, Australia

2 The Characteristic Social Functioning Profiles in Each Primary Progressive Aphasia Variant

Maxime Montembeault¹, Christa Watson¹, Aaron W Scheffler², Joel Kramer¹, Bruce Miller¹, Maria Luisa Gorno-Tempini¹, Katherine P Rankin¹

¹Memory and Aging Center, University of California in San Francisco, San Francisco, CA, USA. ²Department of Epidemiology & Biostatistics, University of California in San Francisco, San Francisco, CA, USA

3 The Effect of Mixed Alzheimer's Disease and Cerebrovascular Pathology on Cognitive Trajectories in the National Alzheimer's Coordinating Center Autopsy Sample.

Brandon E Frank¹, Madeline Ally¹, Yorghos Tripodis¹, Landon Hurley², Brett Martin¹, Joseph N Palmisano¹, Eric G Steinberg¹, Katherine Turk¹, Andrew E Budson¹, Maureen K O'Connor¹, Rhoda Au¹, Wei Q Qui¹, Lee E Goldstein¹, Ronald Killiany¹, Neil W Kowall¹, Robert A Stern¹, Thor D Stein¹, Ann C McKee¹, Jesse Mez¹, Michael L Alosco¹

¹Boston University Alzheimer's Disease Research Center, Boston, MA, USA. ²Yale School of Public Health, New Haven, CT, USA

4 Clinical and Cognitive Characteristics of Limbic Predominant Age-Related TDP-43 Encephalopathy (LATE)

Rachel M Butler Pagnotti¹, Sharlene Jeffers², Justin B Miller¹

¹Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, USA. ²Las Vegas Neurology, Las Vegas, NV, USA

5 It's a Small World After All: Smallworldness Negatively Relates to Tau Burden in Women but not Men

Rachel A Bernier, Sarah J Banks, Kenneth A Rostowsky, Einat K Brenner, Alyx L Shepherd, Kacie D Deters, Erin E Sundermann

University of California, San Diego, San Diego, CA, USA

6 The Relationship Between Parity and Dementia Risk in Black and Latinx women

Jayanne D Forrest, Justina Avila-Rieger, Indira Turney, Nicole Schupf, Richard Mayeux, Jennifer J Manly

Columbia University, New York, New York, USA

Paper Session 02: TeleNP

3:30 - 5:00pm Wednesday, 2nd February, 2022

1 Measurement Methods Matter: Neuropsychological Tests are Not Equivalent When Administered by Telephone vs In-Person Producing Clinical Misclassification

Megan E O'Connell¹, Helena Kadlec¹, Vanessa Taler², Lauren E Griffith³, Kristina Gicas⁴, Christina Wolfson⁵, Geva Maimon⁵, Susan Kirkland⁶, Parminder Raina³

¹University of Saskatchewan, Saskatoon, SK, Canada. ²University of Ottawa, Ottawa, ON, Canada. ³McMaster, Hamilton, ON, Canada. ⁴York, Toronto, ON, Canada. ⁵McGill, Montreal, QC, Canada. ⁶Dalhousie, Halifax, NS, Canada

2 Comparing Performance between Video and Face-to-Face Neuropsychological Test Administration in a VA Hospital Setting

Michelle E Fox¹, Gregory J Lamberty^{2,3}

¹James A. Haley Veterans' Hospital, Tampa, Florida, USA. ²Minneapolis VA Health Care System, Minneapolis, Minnesota, USA. ³University of Minnesota-Twin Cities, Minneapolis, Minnesota, USA

3 Myths and Misconceptions About Older Adults and Technology Use in Clinical Research Studies.

Hannah Wilks¹, Jessica Nicosia¹, Andrew J Aschenbrenner^{1,2}, Sarah Adams¹, Marisol Tahan¹, Sarah Stout¹, John C Morris¹, Jason Hassenstab^{1,2}

¹Department of Neurology, Washington University in St. Louis School of Medicine, Saint Louis, MO, USA.

²Department of Psychological & Brain Sciences, Saint Louis, MO, USA

4 Telehealth Perceptions and Experiences of Persons with Parkinson's Disease During the COVID-19 Pandemic

Joshua T Fox-Fuller, Shraddha B Kinger, Emma Weizenbaum, Rini I Kaplan, Celina F Pluim, Timothy Wang, Luke Poole, Alice Cronin-Golomb

Boston University, Department of Psychological and Brain Sciences, Boston, MA, USA

5 Examining the Impact of the COVID-19 Pandemic on Diagnostic Certainty at an Autism Specialty Center

Natasha N. Ludwig^{1,2}, Calliope Holingue¹, Ji Su Hong^{1,2}, Luke Kalb^{1,3}, Deepa Menon^{1,2}, Danika Pfeiffer^{1,2}, Rachel Reetzke^{1,2}

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins School of Medicine, Baltimore, MD, USA. ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA

6 Clinical Utility of Teleneuropsychology Service Model Among Pediatric Patients with Low Intellectual Functioning

Rowena Ng^{1,2}, Natasha N. Ludwig^{1,2}, Rachel Peterson^{1,2}, Lisa Jacobson^{1,2}

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins University School of Medicine, Baltimore, MD, USA

Paper Session 03: Cognition and Health Behavior

3:30 - 5:00pm Wednesday, 2nd February, 2022

1 Exercise, Executive Functioning, and The Mediating Role of Frontoparietal Network Activation among Children from the ABCD study

Ileana Pacheco-Colón, Angela R Laird, Samuel W Hawes, Raul Gonzalez

Florida International University, Miami, FL, USA

2 Making Movement: Associations of Aerobic Activity with Depressive Symptoms and Cognitive Functioning in a Diverse High-risk Sample

Zachary N Salling¹, Whitney Wharton², Sonum Tharwani², Danielle D Verble², Hao Huang², Vonetta M Dotson^{1,3}

¹Department of Psychology, Georgia State University, Atlanta, Georgia, USA. ²Emory University School of Nursing, Atlanta, Georgia, USA. ³Gerontology Institute, Georgia State University, Atlanta, Georgia, USA

3 Understanding Cultural Differences in Perceived Social Isolation as Predictors of Cognitive Performance: A HABS-HD Data Study

Mirna L Arroyo-Miranda, Andrea P Ochoa Lopez, Luis D Medina

University of Houston, Houston, Texas, USA

4 Help Seeking Behavior: Examining the Contribution of Subjective Cognitive Decline and Sociodemographic factors

Martina Azar^{1,2}, Silvia Chapman³, Jillian Joyce³, Maria Schultheis², Zoe Zhang², Preeti Sunderaraman³, Megan Barker³, Stephanie Cosentino³

¹VA Boston Healthcare System, Boston, MA, USA. ²Drexel University, Philadelphia, PA, USA. ³Columbia University Medical Center, NY, NY, USA

5 Cognitive Impairment and Reading Level on Surgery Cancellation

Carlos Hernaiz Alonso, Shawna Amini, Patrick J Tighe, Cynthia W Garvan, Catherine E Price

University of Florida, Gainesville, FL, USA

6 Episodic Future Thinking and COVID-19 Vaccination Behavior

Jennifer J. Vasterling^{1,2}, Ginette LaFleche^{1,2}, Virginie M. Patt^{1,2}, Renee Hunsberger¹, Mieke Verfaellie^{1,2}

¹VA Boston Healthcare System, Boston, MA, USA. ²Boston University School of Medicine, Boston, MA, USA

Poster Session 04: Neurodevelopmental | Prenatal

7:30 - 8:30am Thursday, 3rd February, 2022

Program Change: *Effect of Cognitive Fatigue on Clinical Performance in Flight Medicine* has been moved from Poster Session 04 Position #21 to Poster Session 09 Position #66

1 Sensitivity and Specificity of Executive Function Assessment Methods in Pediatric ADHD: A Quantitative and Qualitative Approach

Blake Gimbel^{1,2}, Aly Pachter³, Theresa Lafavor³

¹Proof Alliance, Saint Paul, MN, USA. ²Minnesota Neuropsychology, LLC, Saint Paul, MN, USA. ³Pacific University, Hillsboro, OR, USA

2 Impact of Attention Difficulties, Processing Speed, and Intelligence on Math Achievement in School-Aged Children: A Preliminary Study

Faye E Domokos, Jennifer Bolden, McKenzie Martin, Alyssa Cooley

University of Tennessee, Knoxville, TN, USA

3 Utility of Teacher-Specific vs. Multi-Rater Consensus Reports of ADHD Symptomology in Detecting Working Memory Impairment

Jason S Feldman, Cynthia L Huang-Pollock

The Pennsylvania State University, University Park, PA, USA

4 Evaluating the Simple View of Reading in Children with ADHD

Alissa M Cole¹, Jamie A Spiegel², Elizabeth SM Chan¹, Fatou Gaye¹, Elia F Soto¹, Michael J Kofler¹

¹Florida State University, Tallahassee, FL, USA. ²Florida International University, Miami, FL, USA

5 Latent Structure of Working Memory and Emotion Regulation in Pediatric ADHD

Sophie Ilana Leib¹, Steven Miller¹, Esther Chin²

¹Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA. ²Alexian Brothers Neurosciences Institute, Elk Grove Village, IL, USA

6 Neuropsychological Profile Differences Between ADHD Subtypes in an Adult Clinical Sample

Maximillian A Obolsky^{1,2}, Zachary J Resch¹, Kyle J Jennette¹, Gabriel P Ovsiew¹, Woojin Song¹, Neil H Pliskin¹, Jason R Soble¹

¹University of Illinois-Chicago, Chicago, Illinois, USA. ²Roosevelt University, Chicago, Illinois, USA

7 Applying Network Analysis to Executive Functions: Differences in Network Parameters between Children with and without Attention-deficit/hyperactivity Disorder

Justin E Karr¹, Josue E Rodriguez², Philippe Rast², Michelle M Martel¹

¹University of Kentucky, Lexington, KY, USA. ²University of California, Davis, Davis, CA, USA

8 The Relationship Among the Test of Variables of Attention (TOVA) and Other Measures of Attention/Executive Functioning in a Pediatric Sample

Victoria G Padilla¹, Rachel Severs², Natalie Shrull³, Michelle Weinstein¹, Jackie Klaver¹

¹Nashville Neuropsychology and Family Services, Nashville, TN, USA. ²Western Kentucky University, Bowling Green, KY, USA. ³St. Jude Children's Hospital, Nashville, TN, USA

9 Symptom Invalidity of Self-Reported Executive Dysfunction in Assessment of Adult Attention-Deficit/Hyperactivity Disorder

Grace J Lee, Cardinal Do, Julie Suhr

Ohio University, Athens, OH, USA

10 Atypical fronto-subcortical white matter microstructure in relation to delay discounting and emotion dysregulation in children with ADHD

Keri S Rosch¹, Mitchell Batschelett¹, Joshua Robinson¹, Tara Palin¹, Deana Crocetti¹, Stewart Mostofsky¹, Karen Seymour²

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²National Institutes of Health, Bethesda, MD, USA

11 Distinct Patterns of Neuropsychological Performance in Adult ADHD and Psychiatric Comorbidities

Margaret Abraham¹, Michael Seidenberg², Kristen Klipfel³, Elizabeth Geary⁴, Leslie Guidotti Breting⁴, Steven A. Miller²

¹Rosalind Franklin University, Chicago, Illinois, USA. ²Rosalind Franklin University, North Chicago, Illinois, USA. ³Isaac Ray Forensic Group, Chicago, Illinois, USA. ⁴NorthShore University Health System, Evanston, Illinois, USA

12 Diagnostic accuracy of the Conners' Adult ADHD Rating Scales – Self-Report: Long Version (CAARS-S:L) among Veterans.

Jonathan D Sober, Brad L Roper, Timothy J Arentsen, Marcy C Adler

Memphis VA Medical Center, Memphis, TN, USA

13 Detecting Invalid Performance among Patients Referred for Attention-Deficit/Hyperactivity Disorder Evaluation: Cross-Validation of Non-Memory Performance Validity Tests

Jenna E Ausloos-Lozano, Nicole M Durkin, Gabriel P Ovsiew, Zachary J Resch, Kyle J Jennette, Woojin Song, Neil H Pliskin, Jason R Soble

University of Illinois Chicago College of Medicine, Chicago, IL, USA

14 Do Age and Personality Traits Moderate the Association Between Symptoms of Attention-Deficit/Hyperactivity Disorder and Executive Functioning?

Himanthri Weerawardhena, Brandy L. Callahan

University of Calgary, Calgary, Alberta, Canada

15 The Relation Between Working Memory, Error-Related Brain Activity, and Symptoms of Attention-Deficit/Hyperactivity Disorder (ADHD)

Carolyn L. Marsh, Elizabeth S. M. Chan, Nicole Groves, Katie Black, Emma Jaisle, Lushna M. Mehra, Lauren N. Irwin, Alexandria Meyer, Michael J. Kofler

Florida State University, Tallahassee, FL, USA

16 Association Between Sluggish Cognitive Tempo and Academic and Social Functioning in Children

Anna Croghan, Joseph Miller

University of North Dakota, Grand Forks, ND, USA

17 Does Training Working Memory or Inhibitory Control Produce Far-Transfer Improvements in Set Shifting for Children with Attention-Deficit/Hyperactivity Disorder?

Lauren N Irwin^{1,2}, Nicole Groves¹, Alissa Cole¹, Carolyn Marsh¹, Michael Kofler¹

¹Florida State University, Tallahassee, FL, USA. ²Johns Hopkins All Children's Hospital, St. Petersburg, FL, USA

18 The Cognitive Impact of Comorbid Psychopathology on Adults Diagnosed with Attention-Deficit/Hyperactivity Disorder

Caitlin M Ogram Buckley, Brian M Cerny, Gabriel P Ovsiew, Zachary J Resch, Kyle J Jennette, Woojin Song, Neil H Pliskin, Jason R Soble

University of Illinois Chicago, Chicago, Illinois, USA

19 COVID-Related Issues that may Mimic ADHD symptoms: Findings from a Virtual ADHD Screening Clinic

Allyson G Harrison, Beth Pollock

Queen's University, Kingston, Ontario, Canada

20 Sexually dimorphic patterns of anomalous volume, surface area, and cortical thickness in ADHD

Rebecca Rochowiak¹, Deana Crocetti¹, Yi Zhao², Keri Rosch^{1,3}, Mitch Batschelett¹, Joanne Beer⁴, Stewart H Mostofsky^{1,3}, Karen E Seymour⁵

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Indiana University School of Medicine, Indianapolis, IN, USA.

³Johns Hopkins University School of Medicine, Baltimore, MD, USA. ⁴University of Pennsylvania School of Medicine, Philadelphia, PA, USA. ⁵National Institutes of Health, Center for Scientific Review, Bethesda, MD, USA

22 Differential Developmental Patterns of Irritability, Depression, and Anxiety in Boys Versus Girls with ADHD

Alyssa DeRonda¹, Keri S. Rosch¹, Stewart H. Mostofsky¹, Karen E. Seymour²

¹Kennedy Krieger Institute, Baltimore, Maryland, USA. ²National Institutes of Health, Bethesda, Maryland, USA

23 The Effects of Substance Use on ADHD Symptomology in Late Childhood

Alexander L Wallace, Ryan M Sullivan, Elizabeth A Stinson, Christine M Kaiver, Krista M Lisdahl

University of Wisconsin-Milwaukee, Milwaukee, WI, USA

24 A Preliminary Investigation of the Test of Attentional Distraction in Identifying Noncredible Attention Deficit Hyperactivity Disorder in Diagnosis-Seeking Postsecondary Students.

Allyson G Harrison, Irene T Armstrong

Queen's University, Kingston, Ontario, Canada

25 Central Executive Training for ADHD Effects on Academic Achievement, Productivity, and Success in the Classroom

Fatou Gaye, Leah J. Singh, Elizabeth S.M. Chan, Alissa M. Cole, Michael J. Kofler

Florida State University, Tallahassee, Florida, USA

26 Processing Speed Mediates the Relationship between Intelligence and Word List Learning in Pediatric ADHD

Megan M Shambaugh^{1,2}, Sophie I Leib^{1,2}, Lindsey R Holbrook^{1,2}, Elizabeth Heideman², Victoria Tuchscherer²

¹Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA. ²Northwest Suburban Psychology Group, Deerfield, IL, USA

27 Developmental Patterns of Reward and Punishment Sensitivity in Children and Adolescents with ADHD

Natalie J Alessi, Alyssa DeRonda, Jenny Fotang, Stewart H Mostofsky, Keri Rosch

Kennedy Krieger Institute, Baltimore, MD, USA

28 A Construct Validation of a Novel, Eye-Tracking-Based, Visual Attention Disengagement Task

Caitlin Tytler, Ilya Yaroslavsky

Cleveland State University, Cleveland, Ohio, USA

29 Concurrent and Incremental Validity of Parent- and Teacher-Report Questionnaires and Neuropsychological Measures of Executive Functions, Attention, and Hyperactivity in a Pediatric Outpatient Community Mental Health Clinic Sample

Lindsay M Fruehauf^{1,2}, Sean B Vanhille¹, Noah Valentine¹, Elliott Smith¹, Greg Vanni³, Meredith S Pescatello^{1,4}, Scott A Baldwin¹, Michael J Larson¹

¹Brigham Young University, Provo, Utah, USA. ²Birmingham VA Medical Center, Birmingham, Alabama, USA.

³Huntsman Cancer Institute, Salt Lake City, Utah, USA. ⁴University of Rochester, Rochester, NY, USA

30 Differential Risk-Taking Across Development Among Girls & Boys With and Without ADHD

Jenny Fotang, Alyssa DeRonda, Natalie Alessi, Stewart Mostofsky, Keri Rosch

Kennedy Krieger Institute, Baltimore, MD, USA

31 What can Schizencephaly Look Like in Adulthood: A Case Study Examining the Psychiatric, Neuropsychological and Functional Presentation of a Rare Disorder

V. Lynn Ashton Rennison^{1,2}, Niman Gajebasia^{1,2}, Stefanie Pereira¹

¹London Health Sciences Centre, London, Ontario, Canada. ²Western University, London, Ontario, Canada

32 A Bifactor Model Supports Autism Symptomatology Measured with the ADOS-2 as Unidimensional and Not Predicted by Cognitive Functioning

Phebe Albert¹, MaryAnn Ronski², Rose Sevcik², Robin Morris², Erin Tully², Laura Dilly³, Gal Kaldes²

¹Texas Children's Hospital, Houston, TX, USA. ²Georgia State University, Atlanta, GA, USA. ³Marcus Autism Center, Atlanta, GA, USA

33 Working with Rare Disorders: Case Study of an Individual with Jordan's Syndrome

Buse Bedir, Sarah J Macoun

University of Victoria, Victoria, BC, Canada

34 Beyond the Conservative Hypothesis: A Meta-Analysis of Lexical-Semantic Processing in Williams Syndrome

Carlos Romero-Rivas¹, Sara Rodríguez-Cuadrado¹, Lucía Sabater¹, Pablo Rodríguez Gómez², Irene Hidalgo de la Guía³, Eva M. Moreno², Elena Garayzábal Heinze¹

¹Autonomous University of Madrid, Madrid, Spain. ²Complutense University of Madrid, Madrid, Spain. ³University of Alcalá, Madrid, Spain

35 Association Between Sleep-Disordered Breathing and Executive Function Using the BRIEF-2 for Children with Down Syndrome

Kelsey D Csumitta, Catherine M Stephan, Moshe Maiman, Rebecca I LaQuaglia, Marcel Addis-Jackson, Diego Aragon-Guevara, Nancy Raitano Lee

Drexel University, Philadelphia, PA, USA

36 Examining BASC-3 Parent Rating Scale Profiles in Individuals With and Without Intellectual Disability

Emma V. Cole^{1,2,3}, Natasha N. Ludwig^{1,2}, Lisa A. Jacobson^{1,2}

¹Johns Hopkins School of Medicine, Baltimore, Maryland, USA. ²The Kennedy Krieger Institute, Baltimore, Maryland, USA. ³Kennedy Krieger School Programs, Baltimore, MD, USA

37 "Understanding the Relationship Between Self-esteem, Depression and Understanding Personal Strengths in Autistic Youth"

Helen M Genova^{1,2}, Heba E Elsayed^{1,2}, Lauren Hendrix¹, Mikayla Haas¹, Robert E McGrath³

¹Kessler Foundation, East Hanover, New Jersey, USA. ²Rutgers, New Jersey Medical School, Newark, New Jersey, USA. ³Farleigh Dickinson University, Teaneck, New Jersey, USA

38 Communication Skills in Autism: How do they Relate to the Job Interview Process?

Heba E Elsayed^{1,2}, Zuzanna Myszk¹, Peter Meulenbroek³, Michael Dacanay¹, Jacob Gronemeyer¹, Helen M Genova^{1,2}

¹Kessler Foundation, East Hanover, New Jersey, USA. ²Rutgers, New Jersey Medical School, Newark, New Jersey, USA. ³University of Kentucky, Lexington, Kentucky, USA

39 Cognitive Features Differentially Relate to Fragile X Protein Levels in Males and Females with Fragile X Syndrome

Angelina Jones, Anna Boggs, Christina Gross, Craig A Erickson, Lauren M Schmitt

Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

40 Title: Effectiveness of Novel Social Communication Measure LaTrobe in Adolescent with Autism

Aditi Arora^{1,2}, Zuzanna Myszkowski¹, Heba Elsayed^{1,2}, Helen Genova^{1,2}

¹Kessler Foundation, East Hanover, New Jersey, USA. ²Rutgers, New Jersey Medical School, Newark, New Jersey, USA

41 Sex Differences in High Functioning Autism on the Social Perception Tests of the NEPSY-II

Paoula H Dyanova, Steven Migalski, Neil Bockian, Denise Romanow

Adler University, Chicago, IL, USA

42 The use of eye tracking, cognitive ability, and language to predict Autism symptomology, developmental delay, and language delay in toddlers

Alex Porthukaran

York University, Toronto, ON, Canada

43 Characterizing Scores on the CBRS Caregiver/Parent Form in Individuals with Intellectual Disability

Natasha N Ludwig^{1,2}, Emma V Cole^{1,2}, Rowena Ng^{1,2}, Rachel K Peterson^{1,2}, Lisa A Jacobson^{1,2}

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins School of Medicine, Baltimore, MD, USA

44 Sensory abnormalities across psychiatric and neurodevelopmental conditions in childhood.

Kaycee Reese^{1,2}, Pieter Vuijk¹, Mary Colvin^{1,2}, Drew Coman³, Lauren Fleming¹, Alysa Doyle^{1,2}, Ellen Braaten²

¹Massachusetts General Hospital, Boston, MA, USA. ²Harvard Medical School, Boston, MA, USA. ³Coman Psychological and Educational Assessment Group, Cambridge, MA, USA

45 How do Children with Reading Disabilities, Math Disabilities and Comorbidity Differ in Phonological Awareness and Executive Functions?

Gabriella Koltermann¹, Juliana Burges Sbicigo², Giulia Moreira Paiva³, Melina Lima⁴, Mariuche Rodrigues de Almeida Gomides³, Guilherme Maia de Oliveira Wood⁵, Júlia Beatriz Lopes-Silva³, Vitor Geraldi Haase³, Jerusa Fumagalli de Salles¹

¹Universidade Federal do Rio Grande do Sul, Porto Alegre, Rio Grande do Sul, Brazil. ²Factum Faculdade, Porto Alegre, Rio Grande do Sul, Brazil. ³Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil. ⁴UNISINOS, Porto Alegre, Rio Grande do Sul, Brazil. ⁵Universidade Karl-Franzens, Graz, Austria

46 Efficacy of a Peer-Based In-Home Education Program in Improving Social-Emotional Outcomes of Parents and Children

Jennifer I Koop¹, Katie Mau¹, Brittany L Mathews¹, Jessica Namaste², Rebecca Alt², Christa Haring Biel³

¹Medical College of Wisconsin, Milwaukee, WI, USA. ²COA HIPPY, Milwaukee, WI, USA. ³Childrens Equity Coalition, Little Rock, AR, USA

47 Genetic and Neural Risk of Specific Reading Disability Within a Family Case Study: A Clinical Application

Tina I Thomas¹, Elena L. Grigorenko^{1,2}

¹University of Houston, Houston, TX, USA. ²Baylor College of Medicine, Houston, TX, USA

48 Reading Accuracy Skills in Children with New/Recent-Onset Epilepsy and the Influence of Semantic Memory

Jenna Schwartz, MA¹, Jana E Jones, PhD², Bruce P. Hermann, PhD², Oi-Man Kwok¹, Cynthia Riccio¹

¹Texas A&M University, College Station, TX, USA. ²University of Wisconsin School of Medicine and Public Health, Madison, WI, USA

49 The Roles of English and Spanish Language Skills in Word Reading, Math Computations, and their Overlap in Middle School English Learners

Kelly T. Macdonald, Paul T. Cirino

University of Houston, Houston, TX, USA

50 Impact of Acculturation on Working Memory and Math Achievement in Community College Students

Kelly K Halverson, Luis D Medina, Lyle McKinney, Johanna Bick, Paul T Cirino

University of Houston, Houston, TX, USA

51 Circulating Endocannabinoid (eCB) Levels and Mathematics Functioning in Preadolescent Youth: Pilot Data from the ABCD eCB Substudy

Christine M Kaiver¹, Ryan M Sullivan¹, Elizabeth A. Stinson¹, Alexander L. Wallace¹, Hailey Wirtz¹, Cecilia J. Hillard², Krista M. Lisdahl¹

¹University of Wisconsin-Milwaukee, Milwaukee, WI, USA. ²Medical College of Wisconsin, Milwaukee, WI, USA

52 Validity of the 6-item Reading Subscale of the Colorado Learning Difficulties Questionnaire in Monolingual and Bilingual Children of Hispanic Descent.

Richard Boada¹, Beatriz Macdonald-Wer², Jeffrey R. Gruen³

¹Children's Hospital Colorado, Aurora, CO, USA. ²Texas Children's Hospital, Houston, Texas, USA. ³Yale University, New Haven, Connecticut, USA

53 Examining the relationship between IQ, adaptive functioning, and parent self-efficacy

Kara A Jones^{1,2}, Natasha N Ludwig^{1,2}, Lisa Jacobson^{1,2}, Andy Zabel^{1,2}

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins University School of Medicine, Baltimore, MD, USA

54 Subsequent Postnatal Neurocognitive Function Due to Hypothyroidism During Pregnancy: A Systematized Literature Review.

Paola B Velázquez¹, Carmin A Centeno¹, Paola Valentín¹, Nichole Ramos¹, Sergio Molina¹, Mary A Moreno^{1,2}

¹Ponce Health and Sciences University, Ponce, PR, Puerto Rico. ²University of Puerto Rico- Mayagüez, Mayagüez, PR, Puerto Rico

55 Parent-Educators Contribute to Later Academic Achievement During COVID-19 in Very Preterm and Full-Term Children

Timothy Horn¹, Daphne Vrantidis¹, Tyler Busch¹, Rebekah Benkart¹, Kerry Orton¹, Mary Lauren Neel^{2,3}, Nathalie Maitre^{2,3}, H. Gerry Taylor^{1,2}

¹Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, Ohio, USA. ²Perinatal Research at Nationwide Children's Hospital, Columbus, Ohio, USA. ³Neonatology at Nationwide Children's Hospital, Columbus, Ohio, USA

56 Executive Functions and Preliteracy Skills in Preterm-Born Preschoolers

Christina Dandar¹, Allyssa Mattes¹, Jamie Piercy², Andrew Heitzer³, Brittany Paul⁴, Christina Lee¹, Emma Gimenez DeGeorge¹, Judith Klarr⁵, Sarah Raz¹

¹Wayne State University, Detroit, MI, USA. ²University of British Columbia Okanagan Campus, Kelowna, Canada. ³St. Jude Children's Research Hospital, Memphis, TN, USA. ⁴Private practice, Nashville, TN, USA. ⁵William Beaumont Hospital, Royal Oak, MI, USA

57 Anthropometric Measurements at Birth and Preschool Executive Functioning in Preterm-Born Preschoolers

Allyssa Mattes¹, Jamie Piercy², Andrew Heitzer³, Brittany Paul⁴, Christina Dandar¹, Christina Lee¹, Emma Gimenez DeGeorge¹, Judith Klarr⁵, Sarah Raz¹

¹Wayne State University, Detroit, MI, USA. ²University of British Columbia Okanagan Campus, Kelowna, Canada. ³St. Jude Children's Research Hospital, Memphis, TN, USA. ⁴Private practice, Nashville, TN, USA. ⁵William Beaumont Hospital, Royal Oak, MI, USA

58 Profiles of Neurocognitive Abilities Following Preterm Birth Reveal Subtle Areas of Vulnerability

Molly Winston^{1,2,3}, Neami B Tedla^{1,2,4}, Susan M Lee^{1,2}

¹Children's Healthcare of Atlanta, Atlanta, GA, USA. ²Emory University, Atlanta, GA, USA. ³Northwestern University Feinberg School of Medicine, Chicago, IL, USA. ⁴Georgia State University, Atlanta, GA, USA

59 Relationships Between Sleep Time Variability and Neurobehavioral Outcomes in Children With and Without Fetal Alcohol Spectrum Disorders (FASD)

Sarah M Inkelis^{1,2}, Sarah N Mattson¹, Christina Chambers³, Rakesh Bhattacharjee³, Jennifer D Thomas¹

¹Center for Behavioral Teratology, San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²Dyslexia Center, University of California, San Francisco, San Francisco, CA, USA. ³University of California, San Diego School of Medicine, San Diego, CA, USA

60 Exploring Characteristics of Cognitive Phenotypes in Pediatric Patients Born Preterm

Anne-Marie N Fleckenstein¹, Clarissa Shields¹, Nathan Giunto¹, Karlie A Krause¹, Bruna M Schneider¹, Lisa D Stanford¹, Erica M Krapf¹, Dalin T Pulsipher², Kathleen E Hassara¹

¹Akron Children's Hospital, Akron, OH, USA. ²University of Rochester Medical Center, Rochester, NY, USA

61 Late and Moderate Prematurity: Behavioral and Neuropsychological Outcomes in Attention, Working Memory, and Executive Functioning

Heather C. Hennrick^{1,2}, Maggie Gindlesperger³, Nora Coultis³

¹Eastern Michigan University, Ypsilanti, MI, USA. ²Children's Hospital of Orange County, Orange, CA, USA. ³Henry Ford Health System, Detroit, MI, USA

62 Long-term Impact of Maternal Mental Health During Pregnancy on Subsequent Child Autonomic Modulation and Emotional Regulation

Christine L Ginalis, AnaCristina Bedoya, Jeenia Zaki, Yoko Nomura

Queens College, CUNY, New York City, NY, USA

13 Clinical Neuropsychology Roles for Neurogenetic Conditions: Examples from Neurofibromatosis Type 1

Chair

Bonnie Klein-Tasman

University of Wisconsin - Milwaukee, Milwaukee, USA

Discussant

Rene Pierpont

University of Minnesota Medical School, Minneapolis, USA

297 Reliability of Attention/Executive Functioning Measures in Young Children with Neurofibromatosis Type 1: A Pilot Study

Sara K Pardej, Kristin Lee, Danielle M Glad, Bonita P Klein-Tasman

University of Wisconsin-Milwaukee, Milwaukee, WI, USA

296 International Collaboration to Identify Endpoints for Clinical Trials in NF1

Jennifer Janusz¹, Karin Walsh², Bonita P Klein-Tasman³

¹University of Colorado School of Medicine, Aurora, CO, USA. ²Children's National Hospital, Washington, DC, USA.

³University of Wisconsin-Milwaukee, Milwaukee, WI, USA

309 Examining Cognitive Load in Children with Neurofibromatosis Type 1 Compared to Typically Developing Children

Karin S Walsh^{1,2}, Allison del Castillo³, Sara Silber¹, Maegan Sady⁴, Jonathan M Payne⁵, Natalie Pride⁶, Kristina K Hardy^{1,2}

¹Children's National Medical Center, Washington, DC, USA. ²The George Washington University School of Medicine, Washington, DC, USA. ³Loyola University, Chicago, IL, USA. ⁴PAR, Inc, Washington, DC, USA. ⁵Murdoch Children's Research Institute, Parkville, Victoria, Australia. ⁶Children's Hospital at Westmeade, Westmeade, Australia

428 Cognitive Predictors of Late School Age Academic Functioning in Children with Neurofibromatosis Type 1

Kristin Lee¹, Ellen Olszewski¹, Brianna D Yund², Bonita P Klein-Tasman¹

¹University of Wisconsin-Milwaukee, Milwaukee, WI, USA. ²University of Minnesota Medical School, Minneapolis, MN, USA

CE Workshop 09: Optical Brain Monitoring via Functional Near Infrared Spectroscopy -- Presenter: Hasan Ayaz

8:00 - 9:30am Thursday, 3rd February, 2022



Hasan Ayaz, PhD

Provost Solutions Fellow

Associate Professor of Biomedical Engineering

Drexel University

Adjunct Professor

University of Pennsylvania

Associate Fellow

Children's Hospital of Philadelphia

CE Workshop 09: Optical Brain Monitoring via Functional Near Infrared Spectroscopy

Level of Instruction: Introductory/Intermediate

Abstract & Learning Objectives:

Functional near-infrared spectroscopy (fNIRS), a noninvasive and wearable brain-monitoring technology relies on optical techniques to detect changes of cortical hemodynamic responses to human perceptual, cognitive, and motor functioning. Wearable and mobile neuroimaging for localized brain activity monitoring using fNIRS offers a unique opportunity in understanding natural cognitive processes, and specifically, the workload of disability populations performing complex coordinated motor tasks in active and realistic settings. fNIRS is an increasingly popular neuroimaging modality that can assess brain activity ecologically valid everyday life settings.

This workshop is focused on introducing fNIRS based optical brain monitoring, its physiological and physical principles, data collection and signal processing techniques as well as data analysis procedures. There will be both theory as well as review of current emerging applications with the technique from aerospace to medicine, with diverse populations and towards clinical solutions. The tutorial is aimed to get researchers started on fNIRS and designed for both beginner and intermediate researchers.

Upon conclusion of this course, learners will be able to:

- Identify the physiological basis and imaging principles by which current functional Near-Infrared Systems (fNIRS) operate
- Critically articulate the advantages and disadvantages afforded by optical brain imaging methods
- Give examples of situations in which fNIRS may offer current or eventual clinical or field application and promising research directions/technological developments.

Speaker Biography:

Dr. Hasan Ayaz is an Associate Professor of Biomedical Engineering (with tenure) and Psychology (with courtesy) at Drexel University, adjunct professor at the University of Pennsylvania and associate fellow at the Children's Hospital of Philadelphia, and a Provost Solutions Fellow at the Drexel Solutions Institute. He leads the Drexel Neuroergonomics Group, focusing on understanding human brain function using mobile neuroimaging and physiological biosensing in realistic and real-world environments with complex cognitive tasks, across the lifespan and from healthy (typical to specialized groups) to diverse clinical conditions (mental health to neurological). He is also core faculty at the Cognitive Neuroengineering and Quantitative Experimental Research (CoNQuER) Collaborative (drexel.edu/conquer), a brain observatory that is equipped with state-of-the-art brain and body sensors, as well as electronic design, assembly and testing facilities for new sensor development.

For close to two decades, he has worked on the development of miniaturized continuous wave near infrared spectroscopy systems specialized for neuroimaging. He has developed brain monitoring tools that are routinely utilized for clinical and field research at more than 200 university, government and corporate labs and has led the software development of the first optical-brain-monitoring medical device, Infrascanner, a portable-handheld instrument that utilizes near infrared to detect hematoma in head trauma patients, currently deployed in 42 countries/6 continents in both civilian and military hospitals. Dr. Ayaz's research involves understanding the neural mechanisms related to human cognitive function with a focus on real-world contexts, mobile neuroimaging, and neuroengineering approaches for neuroergonomics applications. He has 75+ journal papers and 200+ book chapters/conference publications with h-index of 42 with over 5600 citations to his works.

Dr. Ayaz is a leading advocate of Neuroergonomics, an emerging field that investigates the human brain in relation to behavioral performance in natural environments and everyday settings. He has co-chaired the inaugural and the 2nd International Neuroergonomics Conferences (Paris, 2016; Philadelphia, 2018). He has co-edited five journal special issues, and a comprehensive book on Neuroergonomics with Prof. Frederic Dehaes, published by Elsevier. He is also the co-founding Field Chief Editor of the new journal: *Frontiers in Neuroergonomics*, with editorial board of over 350+ editors/leading scientists from around the world.

CE Workshop 10: Perspectives on Neuropsychological Assessment of Deaf and Hard of Hearing Children and Adults -- Presenter: Lawrence Pick

8:00 - 9:30am Thursday, 3rd February, 2022



Lawrence Pick, PhD, ABPP-CN

Professor of Psychology

Director of Clinical Training for the Clinical Psychology PhD Program

Gallaudet University

CE Workshop 10: Perspectives on Neuropsychological Assessment of Deaf and Hard of Hearing Children and Adults

Level of Instruction: Introductory

Abstract & Learning Objectives:

It is estimated that over a billion individuals in the world are deaf or hard of hearing, and these numbers are anticipated to increase due to limited access to quality health care, exposure to recreational and occupational noise, and other factors. This group of people is extremely diverse, and their lives are shaped by the etiology, type, onset and course of their hearing status, as well as related developmental, language, educational and cultural experiences. Unfortunately, many people who are deaf and hard of hearing experience barriers to accessing quality physical and behavioral healthcare. Within the field of neuropsychology there are a limited number of measures that have been developed and standardized for use with these populations, and few neuropsychologists have been trained to provide culturally and linguistically appropriate and accessible services. This presentation will explore the neurocognitive functioning of people with different hearing statuses, discuss the demographic and background characteristics that may influence performance during neuropsychological assessment, review and demonstrate suitable spoken, written and sign language measures, and describe approaches to case formulation and differential diagnosis. Suggestions also will be offered for working with language interpreters and providing accessible feedback sessions and reports.

Upon conclusion of this course, learners will be able to:

- Describe the types, etiologies, and sociocultural perspectives of different hearing statuses
- Discuss culturally and linguistically appropriate and accessible approaches to neuropsychological assessment of deaf and hard of hearing individuals
- Evaluate the strengths and weaknesses of available neuropsychological measures developed for and used with deaf and hard of hearing individuals

Speaker Biography:

Dr. Lawrence Pick is a Professor of Psychology and the Director of Clinical Training for the Clinical Psychology PhD Program at Gallaudet University. He received his doctoral degree from the Graduate School and University Center of the City University of New York. His current research program focuses on 1) the development, translation, and adaptation of psychological and neuropsychological measures for use with people who are deaf, hard of hearing, and deafblind and 2) the evaluation of culturally and linguistically responsive neuropsychological services.

Paper Session 19: Rehabilitation

8:00 - 9:30am Thursday, 3rd February, 2022

1 Neuropsychological Intra-Individual Variability in Post-Acute Traumatic Brain Injury Rehabilitation: Associations with Functional Outcomes

Jeremy A Feiger¹, Jeff Snell², Kathy S Chiou¹

¹University of Nebraska - Lincoln, Lincoln, NE, USA. ²QLI, Omaha, NE, USA

2 The Development of an Interdisciplinary Virtual Group-Based Intervention for Youth with Persistent Post-Concussion Symptoms and Their Caregivers: An Intervention Mapping Approach

Hiba Al-Hakeem^{1,2}, Kylie Mallory^{2,3}, Brendan Lam², Brenda Knapp², Kim Moody², Tess Bardikoff², Andrea Hickling², Shannon Scratch^{2,3}

¹University of Windsor, Windsor, Ontario, Canada. ²Bloorview Research Institute, Toronto, Ontario, Canada.

³University of Toronto, Toronto, Ontario, Canada

3 Use of the ReMIND Package for Individuals with Traumatic Brain Injury

Sarah Raskin, Gianna Barbadillo, Aspen Hawkins, Samantha McAward

Trinity College, Hartford, CT, USA

4 Effects of Motivationally Enhanced Compensatory Cognitive Training on Modifiable Risk Factors for Mild Cognitive Impairment

Zanjbeel Mahmood¹, Scott C Roesch², Marilyn Huckans^{3,4}, Maya E O'Neil^{3,4}, Amy J Jak^{5,6}, Elizabeth W Twamley^{5,6}

¹SDSU/UCSD Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²San Diego State University, San Diego, CA, USA. ³VA Portland Healthcare System, Portland, OR, USA. ⁴Oregon Health & Science University, Portland, OR, USA. ⁵University of California San Diego, San Diego, CA, USA. ⁶VA San Diego Healthcare System, San Diego, CA, USA

5 Higher-Order Resting State Network Changes Associated with Improved Useful Field of View Performance After 3 Months of Cognitive Training in Healthy Older Adults

Cheshire Hardcastle¹, Jessica N. Kraft¹, Hanna K. Hausman¹, Andrew O'Shea¹, Alejandro Albizu¹, Nicole D. Evangelista¹, Emanuel Boutzoukas¹, Kailey Langer¹, Emily J. Van Etten², Pradyumna K. Bharadwaj², Hyun Song², Samantha G. Smith², Eric Porges¹, Steven DeKosky¹, Georg A. Hishaw², Samuel Wu¹, Michael Marsiske¹, Ronald Cohen¹, Gene E. Alexander², Adam J. Woods¹

¹University of Florida, Gainesville, FL, USA. ²University of Arizona, Tucson, AZ, USA

6 The Role of the Frontoparietal Control Network for tDCS-Related Improvements of Working Memory Function in Older Adults

Alejandro Albizu, Hanna K Hausman, Cheshire Hardcastle, Emanuel M Boutzoukas, Aprinda Indahlastari, Samantha MB Pederson, Nicole D Evangelista, Jessica N Kraft, Andrew O'Shea, Adam J Woods

University of Florida, Gainesville, FL, USA

Paper Session 20: Psychiatric

8:00 - 9:30am Thursday, 3rd February, 2022

1 Nicotine and Cannabis Co-Use and Associations with White Matter Health in the Developing Adolescent Brain

April C May¹, Kelly E Courtney², Joanna Jacobus^{2,1}

¹SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²Department of Psychiatry, University of California, San Diego, San Diego, CA, USA

2 Cannabis, Driving Performance and Users' Perception of Safety: A Double-Blind, Placebo-Controlled Randomized Clinical Trial of Smoked Cannabis

Thomas D Marcotte¹, Anya Umlauf¹, David J Grelotti¹, Emily G Sones¹, Philip Sobolesky^{1,2}, Breland Smith^{1,3}, Melissa Hoffman^{1,4}, Jacqueline Hubbard^{1,5}, Joan Severson⁶, Marilyn Huestis⁷, Igor Grant¹, Robert L Fitzgerald¹

¹University of California, San Diego, San Diego, CA, USA. ²Santa Clara Valley Medical Center, San Jose, CA, USA. ³LetsGetChecked Labs, Monrovia, CA, USA. ⁴Vividion Therapeutics, San Diego, CA, USA. ⁵Dartmouth-Hitchcock

Medical Center, Lebanon, NH, USA. ⁶Brainbaseline, Iowa City, IA, USA. ⁷Thomas Jefferson University, Philadelphia, PA, USA

3 Subclinical Neuropsychiatric Symptoms in Typical Aging: An Indication of Amyloid Burden?

Eva Q. Gontrum¹, Alexander Ehrenberg², Renaud LaJoie², Gil Rabinovici¹, Joel H Kramer¹, Kaitlin B. Casaletto¹

¹UCSF Memory and Aging Center, San Francisco, California, USA. ²UCSF, San Francisco, California, USA

4 Association of Cortico-Limbic Volume and Amyloid- β with Accelerated Cognitive Decline in Late Life Major Depression

Emma P Rhodes^{1,2}, Michelle T Kassel^{1,2}, Philip Insel², Craig Nelson², Scott Mackin²

¹San Francisco VA Medical Center, San Francisco, CA, USA. ²UCSF, San Francisco, CA, USA

5 Cognitive Phenotypes in Late-Life Depression

Sarah M. Szymkowicz, Damian M. Elson, Warren D. Taylor

Vanderbilt University Medical Center, Nashville, TN, USA

6 Acute Verbal Learning and Memory Component Effects Following Combined Electroconvulsive Therapy and Venlafaxine Treatment in Older Adults with Major Depressive Disorder

Allison P Gregg¹, Shawn M McClintock^{2,3}, Charles H Kellner⁴, C Munro Cullum¹, Jayme M Palka¹, Rebecca G Knapp⁵, Mary Dooley⁵, Martina Mueller⁵, Abeba A Teklehaimanot⁵, Richard D Weiner³, Elisabeth Bernhardt⁶, Georgios Petrides⁷, Mustafa Husain¹, William V McCall⁸, Robert C Young⁹, Joan Prudic¹⁰, Peter B Rosenquist⁸, Sarah H Lisanby¹¹

¹UT Southwestern Medical Center, Dallas, TX, USA. ²UTSouthwestern Medical Center, Dallas, TX, USA. ³Duke University School of Medicine, Durham, NC, USA. ⁴Icahn School of Medicine at Mount Sinai, New York, NY, USA. ⁵Medical University of South Carolina, Charleston, SC, USA. ⁶University of North Carolina Chapel Hill, Chapel Hill, NC, USA. ⁷Zucker Hillside Hospital, Glen Oaks, NY, USA. ⁸Medical College of Georgia, Augusta University, Augusta, GA, USA. ⁹New York Presbyterian/Weill Cornell Medical Center, White Plains, NY, USA. ¹⁰Columbia University/New York State Psychiatric Institute, New York, NY, USA. ¹¹Noninvasive Neuromodulation Unit, Experimental Therapeutics Branch, Intramural Research Program, National Institute of Mental Health, Bethesda, MD, USA

Poster Session 05: Epilepsy | Oncology | Genetics | Neuroscience

8:30 - 9:30am Thursday, 3rd February, 2022

1 Cognitive Intra-individual Variability in Breast Cancer Survivors: A Systematic Review

David E. Vance¹, Victor A. Del Bene¹, Jennifer S. Frank¹, Rebecca Billings¹, Jennifer Bail², Wei Li¹, Karli Martin¹, Jun Y. Byun¹, Kristen Triebel¹, Pariya L Fazeli¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²University of Alabama in Huntsville, Huntsville, AL, USA

2 Working Memory and Processing Speed Predict Mathematics Performance in Pediatric Brain Tumor Survivors

Rachel Peterson¹, Rowena Ng², Natasha Ludwig³, Lisa Jacobson³

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Kennedy Krieger Institute, Balti, MD, USA. ³Kennedy Krieger Institute, B, MD, USA

3 Medical decision-making in persons with metastatic cancer

Terina L Myers¹, Kyler Mulhauser¹, Dario Marotta², Karli Martin¹, Adam Gerstenecker¹, Meredith Gammon¹, Zachary Baird Tucker¹, Gabrielle Willhelm¹, John Fiveash¹, Kristen Triebel Gerstenecker¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²Alabama College of Osteopathic Medicine, Dothan, AL, USA

4 The Posterior Fossa Syndrome Questionnaire: Moving Towards Improved Diagnostic Consistency

Molly E Wickenhauser, Raja B Khan, Darcy Raches, Jason M Ashford, Kathryn MW Russell, Kristin Lyons, Giles Robinson, Amar Gajjar, Heather M Conklin

St. Jude Children's Research Hospital, Memphis, TN, USA

5 The Role of Processing Efficiency in Outcomes of Survivors of Childhood Cancer

Julie A Trapani¹, Victoria Seghatol-Eslami¹, Tiffany Tucker¹, Eleanor Lee¹, Karthik Reddy¹, Donna L Murdaugh^{1,2}

¹University of Alabama at Birmingham (UAB), Birmingham, AL, USA. ²Institute for Cancer Outcomes and Survivorship, UAB, Birmingham, AL, USA

6 Temporal changes in treatment exposures across three decades, and long-term chronic health conditions and neurocognitive outcomes in adult survivors of pediatric medulloblastoma: A report from the Childhood Cancer Survivor Study (CCSS)

Chiara Papini¹, Mengqi Xing¹, Sedigheh Mirzaei Salehabadi¹, Ingrid Tønning Olsson², Katharine Lange³, Peter de Blank⁴, Ralph Salloum⁵, Deo Kumar Srivastava¹, Wendy Leisenring⁶, Rebecca Howell⁷, Kevin Oeffinger⁸, Leslie Robison¹, Gregory T Armstrong¹, Kevin Krull¹, Tara Brinkman¹

¹St. Jude Children's Research Hospital, Memphis, TN, USA. ²Region Skåne, Malmö, Sweden. ³Children's Minnesota, Minneapolis, MN, USA. ⁴Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA. ⁵Nationwide Children's

Hospital, Columbus, OH, USA. ⁶Fred Hutchinson Cancer Research Center, Seattle, WA, USA. ⁷The University of Texas MD Anderson Cancer Center, Houston, TX, USA. ⁸Duke Cancer Institute, Durham, NC, USA

7 Cardiorespiratory Fitness is Associated with Hippocampal Functional Connectivity in Women Newly Diagnosed with Breast Cancer

Alina Lesnovskaya^{1,2}, Hayley S Ripperger^{1,2}, Shannon D Donofry¹, Jermon A Drake^{1,2}, Alexa Poniatowski¹, Patrick T Donahue^{1,3}, Mary E Crisafio⁴, Emily A Richards¹, George Grove¹, Amanda L Gentry¹, Susan M Sereika¹, Cathy M Bender¹, Kirk I Erickson^{1,2}

¹University of Pittsburgh, Pittsburgh, PA, USA. ²Center for the Neural Basis of Cognition, Pittsburgh, PA, USA. ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA. ⁴Colorado State University, Fort Collins, CO, USA

8 Cerebral Perfusion is Associated with Cardiorespiratory Fitness in Women with Breast Cancer

Hayley S Ripperger^{1,2}, Chelsea M Stillman¹, Sarah L Aghjayan^{1,2}, George Grove¹, Patrick T Donahue^{3,1}, Mary E Crisafio⁴, Emily A Richards¹, Amanda L Gentry¹, Susan M Sereika¹, Catherine M Bender¹, Kirk I Erickson^{1,2}

¹University of Pittsburgh, Pittsburgh, PA, USA. ²Center for the Neural Basis of Cognition, Pittsburgh, PA, USA. ³Johns Hopkins University, Baltimore, MD, USA. ⁴Colorado State University, Fort Collins, CO, USA

9 Bouncing Back: Resilience and Cognitive Symptoms in Cancer

Giuliana V Zarrella, Lucy Finklestein-Fox, Daniel L Hall, Elyse R Park, Michael W Parsons

Massachusetts General Hospital, Department of Psychiatry, Boston, MA, USA

10 Self-Evaluation as a Predictor of Neuropsychological Functioning in Pediatric Leukemia Survivors

Chelsea Feller¹, Joanna Pei-En Huang¹, Emily Nishimura¹, Abigail Onderwyzer Gold¹, Nicole Delgado¹, Alysia Bosworth¹, Melissa Balderrama², Grace Mucci³, Kimberly Kayser², Kathleen Ingman², Heather Huszti³, Van Huynh³, Sunita K Patel¹

¹City of Hope, Duarte, CA, USA. ²Children's Hospital of Los Angeles, Los Angeles, CA, USA. ³Children's Hospital of Orange County, Orange County, CA, USA

11 Neuropsychological Profile in a High-Grade Primary Central Nervous System Neuroendocrine Carcinoma

Kelsey C Hewitt, Cady Block

Emory University, Atlanta, GA, USA

12 Cognitive Mediators of Quality of Life in Pediatric Medulloblastoma Survivors: A Comparison of Survivors with and without Posterior Fossa Syndrome

Krystal Christopher^{1,2}, Heather Stancel³, Kimberly P Raghubar³, Lisa S Kahalley³

¹University of Houston, Houston, Texas, USA. ²University of Florida, Gainesville, Florida, USA. ³Texas Children's Hospital, Houston, Texas, USA

13 Hypertension as a Risk Factor for Lower Neurocognitive Functioning in Women with Newly Diagnosed Breast Cancer

Joanna P. Huang, Chelsea Feller, Emily Nishimura, Sunita K. Patel

City of Hope, Duarte, CA, USA

14 Effects of Sleep, Fatigue, and Screen Time on Emotional Outcomes in Pediatric Cancer Survivors

Paige B Goodman^{1,2}, Jayme M Palka¹, Alina Nguyen¹, Alice A Holland^{1,2}

¹UT Southwestern Medical Center, Dallas, Texas, USA. ²Children's Health Children's Medical Center Dallas, Dallas, Texas, USA

15 Neurocognitive Outcomes and White Matter Microstructure Following Proton Radiotherapy for Pediatric Brain Tumors

Brian Biekman¹, Elisabeth A Wilde², Nilesh Desai³, Marianne MacLeod³, Tracy Abildskov², Naomi J Hunsaker², Livia Merrill¹, Jessica Orobio⁴, Mehmet F Okcu³, Charles G Minard⁵, Zili D Chu³, Kimberly P Raghubar³, Luz A De Leon⁵, William Whitehead³, David Grosshans⁶, Arnold Paulino⁶, Murali Chintagumpala³, Lisa S Kahalley³

¹University of Houston, Houston, TX, USA. ²University of Utah, Salt Lake City, UT, USA. ³Texas Children's Hospital, Houston, TX, USA. ⁴UT Southwestern Medical Center, Dallas, TX, USA. ⁵Baylor College of Medicine, Houston, TX, USA. ⁶MD Anderson Cancer Center, Houston, TX, USA

16 Effects of Sleep, Fatigue, and Screen Time on Attentional Functioning in Pediatric Cancer Survivors

Alina Nguyen¹, Jayme M Palka¹, Paige B Goodman¹, Alice Ann Holland^{1,2}

¹UT Southwestern Medical Center, Dallas, Texas, USA. ²Children's Health Children's Medical Center Dallas, Dallas, Texas, USA

17 Rating Scales and Performance-based Measures of Executive Function in Pediatric Oncology Survivors Across Time

Rachel K. Peterson¹, Lisa A. Jacobson²

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Kenn, B, MD, USA

18 Effect of Treatment Type and Cancer Stage on Cortical Gray Matter in Breast Cancer Patients

Sonya Gupta¹, Julie Petersen², Derin Cobia³, Mehmet E Dokucu², Eric D Donnelly², William J Gradishar², Marko Mihailovic², Judith A Paice², James L Reilly², Joel L Voss², Lynne Wagner⁴, Sandra Weintraub², Lei Wang⁵

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⁵The Ohio State University College of Medicine, Columbus, OH, USA

19 A Culturally Sensitive Look at Neuropsychological Late Effects in a Case Study of Glioblastoma Multiforme

Elizabeth M. Stuart¹, Brian Gutierrez¹, Samantha Torres¹, Teddi Softley²

¹Alliant International University, Los Angeles, CA, USA. ²Miller Children's Hospital, Long Beach, CA, USA

20 The Benefit of Assessing Implicit Sequence Learning in Pianists with an Eye-Trackd Serial Reaction Time Task

Simone Schwizer Ashkenazi, Rivka Raiter-Avni, Eli Vakil

Department of Psychology and Leslie and Susan Gonda (Goldschmied) Multidisciplinary Brain Research Center, Bar-Ilan University, Ramat-Gan, Israel

21 Exploring the Effects of Virtual Reality Game Play on Cognitive Performance

Amanda C Glueck, Dong Y Han

University of Kentucky, Lexington, KY, USA

22 The Neural Correlates of Psychological Well-being

Marcie Johnson, Daniel Tranel

The University of Iowa, Iowa City, IA, USA

24 Findings from the Italian survey for monitoring the state of the art of advanced neuroscientific research post COVID-19

Michela Balconi^{1,2}, Marco Bove³, Maurizio Bossola^{4,5}, Laura Angioletti^{1,2}, Giulia Fronda^{1,2}, Davide Crivelli^{1,2}

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25 How Mindfulness Impacts Response Inhibition and Perception of Affective Words

Emily J Ahne, Monica Rosselli

Florida Atlantic University, Boca Raton, FL, USA

26 Rostral Anterior Cingulate Connectivity in Older Adults with Subthreshold Depressive Symptoms

Andrew M Gradone¹, Keith M McGregor², Joe R Nocera², Vonetta M Dotson¹

¹Georgia State University, Atlanta, GA, USA. ²Emory University, Atlanta, GA, USA

27 The Effects of Mindfulness on Cognitive Flexibility and Emotion Perception

Jude Larsen, Robert Medeiros, Emily Ahne, Mónica Rosselli

Florida Atlantic University, Davie, Florida, USA

28 Shared Neural Mechanisms of Response Inhibition Across Commonly Used Tasks: A GingerALE Meta-Analysis of fMRI Studies in Healthy Adults

Victor A Del Bene¹, Dario Marotta¹, Zachary Lazzari¹, Stephen L Aita², Harrison C Walker¹, Nicole Bentley¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²Geisel School of Medicine at Dartmouth, Hanover, NH, USA

29 Role of Occupation on Cognitive Outcomes Across Sex/Gender by Racial/Ethnic Groups

Paul M Lewis¹, Justina Avila-Rieger², Nicole Schupf², Adam M Brickman², Jennifer J Manly²

¹Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA. ²Columbia University, New York, NY, USA

30 Alterations of Attention, Memory, and Executive Functioning in Children With History of Child Abuse.

Tania García Tinoco¹, Bernarda Tellez Alanís², Ruben Avilés Reyes³

¹Facultad de Psicología, Maestría en Psicología Universidad Autónoma del Estado de Morelos., Cuernavaca, Morelos, Mexico. ²Centro de Investigación Transdisciplinar en Psicología CITPSI-UAEM., Cuernavaca, Morelos, Mexico. ³Universidad Autónoma de Baja California, Ensenada, Baja California, Mexico

31 sEEG Language Mapping: A Systematic Review of Language Assessment

Niya Adlersberg¹, Masanori Takeoka², Alyssa Ailion²

¹Mass General Brigham, Boston, MA, USA. ²Boston Children's Hospital, Boston, MA, USA

32 Executive Function Associated with Integrity of the Non-Epileptogenic Hemisphere Based on Intracarotid Amobarbital Test in Persons with Epilepsy

Bryce S Jacobson, Grant G Moncrief, Stephen L Aita, Angela R Waszkiewicz, Robert M Roth

Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA

33 The Contribution of Processing Speed and Executive Functioning to Visuospatial Learning and Recall in Presurgical Epilepsy Patients

Melissa E Pulcini, Kelly M Stanek, Danielle Weiss, Debra Moore-Hill, Yong D Park, Suzanne H Strickland, Fernando L Vale

Medical College of Georgia at Augusta University, Augusta, GA, USA

34 Psychometric Properties of the NAB Naming Test in Persons with Epilepsy

Jennifer Lee, Angela Waszkiewicz, Grant G. Moncrief, Robert M. Roth

Dartmouth Hitchcock Medical Center, Lebanon, NH, USA

35 Pediatric Focal Epilepsy Reading Comprehension: Differences Between Subtypes?

Morgan L Engelmann^{1,2}, Nancy L Nussbaum^{3,1}

¹University of Texas at Austin, Austin, TX, USA. ²Kennedy Krieger Institute, Baltimore, MD, USA. ³University of Texas Health Austin Pediatric Neurosciences at Dell Children's, Austin, TX, USA

36 Neuropsychological Profile of a Bilingual Pediatric Epilepsy Patient with Prenatal Stroke and Abnormal Brain Imaging: Findings at 6 Months and 2.5 Years into Seizure Remission

Madeline C Manning^{1,2}, Caitlyn J Cap^{1,3}, Kayleen S Ball¹

¹Nicklaus Children's Hospital, Miami, FL, USA. ²Northeastern University, Boston, MA, USA. ³La Salle University, Philadelphia, PA, USA

37 Development and Cross-Validation of Personality Assessment Inventory Decision Rules for the Identification of Psychogenic Nonepileptic Seizures

Chelsea M Bosch¹, Lisa M Koehl¹, Frederick A Schmitt¹, Dona E.C. Locke²

¹University of Kentucky, Lexington, KY, USA. ²Mayo Clinic Arizona, Scottsdale, AZ, USA

38 The Role of Neuropsychology in the Identification of Electrical Status Epilepticus of Slow-Wave Sleep in a School-Aged Child with Remote History of Neurological Insult: a Case Report

Emily Kalscheur^{1,2}, Raquel Farias-Moeller^{1,2}, Jennifer Koop^{1,2}

¹Medical College of Wisconsin, Milwaukee, WI, USA. ²Children's Wisconsin, Milwaukee, WI, USA

39 Comparing Sex Differences in Cogstate Performance for Newly Diagnosed Focal Epilepsy Patients

Kelsey C Hewitt¹, David W Loring¹, Chris Morrison², Terence J O'Brien³, Patricia E Penovich⁴, Kimford Meador⁵

¹Emory University, Atlanta, GA, USA. ²NYU Langone Medical Center, New York, NY, USA. ³The University of Melbourne, Victoria, Australia. ⁴Minnesota Epilepsy Group, St. Paul, MN, USA. ⁵Stanford University, Stanford, CA, USA

41 Combining Well-Established with Emerging Technologies in the Surgical Treatment of a Patient with Right Temporal Lobe Epilepsy with Mesial Temporal Sclerosis

Christopher Luongo-Zink^{1,2}, Donald J Bearden^{2,3}, Robyn Selawski², Susan Lee^{2,3}, Ruba R Al-Ramadhani^{2,3}, Sonam Bhalla^{2,3}, Corinne Oliver², Joshua Chern^{2,3}, Kim E Ono^{2,3}, Satyanarayana Gedela^{2,3}, Jennifer Ganote², Guojun Zhang^{2,3}, Nigel P Pedersen³, Daniel L Drane³, Ammar Kheder^{2,3}

¹William James College, Newton, MA, USA. ²Children's Healthcare of Atlanta, Atlanta, Georgia, USA. ³Emory University, Atlanta, GA, USA

42 Pre- and Post-Epilepsy Surgery Mood Trajectories

Chantal M Muller-Cohn¹, Sanam Lalani², Carrie McDonald², Amanda Gooding², Marc A Norman²

¹Alliant International University, San Diego, CA, USA. ²University of California, San Diego, CA, USA

43 ESES on Neurocognitive Functioning

Emily A Matuska¹, Allison Carney¹, Tesfaye Zelleke¹, Leigh Sepeta^{1,2}, Madison M Berl¹

¹Children's National Hospital, Washington, DC, USA. ²National Institutes of Health, Bethesda, MD, USA

44 Visual Naming is Spared in Surgery for Medial Temporal Lobe Epilepsy if Restricted to the Amygdalar-Hippocampal Complex

Daniel L. Drane^{1,2}, Aastha Bansal³, Nigel P. Pedersen¹, Kelsey C. Hewitt¹, Michelle Kim², Taylor Shade¹, Sean Wickham¹, Cady Block¹, Ekaterina Staikova¹, Joanna Yu¹, Deqiang Qiu¹, Natalie Voets⁴, Ranliang Hu¹, Scott Millis⁵, David W. Loring¹, Jon T. Willie⁶, Robert E. Gross¹

¹Emory University School of Medicine, Atlanta, GA, USA. ²University of Washington, Seattle, WA, USA. ³Emory University, Atlanta, GA, USA. ⁴Oxford University, Oxford, United Kingdom. ⁵Wayne State University, Detroit, MI, USA. ⁶Washington University, St. Louis, MO, USA

45 Bilingualism a Potential Neuroprotective Factor in Pediatric Refractory Temporal Lobe Epilepsy of the Language Dominant Hemisphere– A Case Study

Jacqueline C Duperrouzel, Kayleen Ball

Nicklaus Children's Hospital, Miami, Florida, USA

46 Examination of the Crowding Effect Hypothesis in a Diverse Clinical Sample of Patients with Epilepsy

Kenneth Chase Bailey¹, Marielle Nagele², Radhika Vaishnav², Sasha Alick², Jason Smith², Joy Li², Thomas Oneill², Zerrin Yetkin²

¹Department of Veteran Affairs, Seattle, WA, USA. ²UTSW, Dallas, TX, USA

47 Atypical Language Reorganization Without a Lateralizing Neuropsychological Profile in Pediatric Intractable Frontal Lobe Epilepsy: How Functional and Structural Imaging Can Help Solve The Puzzle

Caitlyn J Cap^{1,2}, Madeline C Manning^{1,3}, Byron Bernal¹, Brandon M Korman¹

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48 The Relationships Among Decision-Making, Medication Adherence, and Medication Beliefs Within an Epilepsy Sample

Claire Speelman, Peter Chiu, Paula K Shear, Brian Moseley

University of Cincinnati, Cincinnati, Ohio, USA

49 The Unique Contribution of Possible Cognitive Impairment on Quality of Life in People with Epilepsy

Julia A Thomas^{1,2}, Leslie Guidotti Breting³, Jaishree Narayanan³

¹Illinois Institute of Technology, Chicago, IL, USA. ²Rush University Medical Center, Chicago, IL, USA. ³NorthShore University Health System, Evanston, IL, USA

50 Neuropsychological Investigation into Rate of Forgetting for Patients with Temporal Lobe Epilepsy

Melanie L McArdle^{1,2}, Jason Osher¹, Katherine King¹, Margaret O'Connor³

¹William James College, Newton, MA, USA. ²McLean Hospital, Belmont, MA, USA. ³Brigham and Womens, Boston, MA, USA

51 A Systematic Review of Host Genomic Variation and Neuropsychological Outcomes for Pediatric Cancer Survivors

Rella Kautiainen, Holly Aleksonis, Tricia King

Georgia State University, Atlanta, GA, USA

52 Prospective memory abilities of children with Down syndrome in comparison to typically developing children: Relations with social abilities.

Mary Godfrey¹, Nancy Raitano Lee²

¹Children's National Hospital, Washington, D.C., USA. ²Drexel University, Philadelphia, PA, USA

53 Heme oxygenase-1 (HO-1) Promoter Genotype and Neurocognition in Youth with and without Perinately Acquired HIV in Thailand

Anthony F. Santoro^{1,2}, Reuben N. Robbins^{1,2}, Linda Aupibul³, Christopher Ferraris², Dennis Kolson⁴

¹Columbia University, New York, NY, USA. ²New York State Psychiatric Institute (NYSPI), New York, NY, USA. ³Research Institute for Health Sciences (RIHES), Chiang Mai University, Chiang Mai, Thailand. ⁴University of Pennsylvania, Philadelphia, PA, USA

54 Children with a Fragile X Premutation Show Elevated Parent-Reported Executive Function Problems

Shira Russell-Giller^{1,2}, Sarah L Nolin³, Anne Glicksman³, Nicole Tortora³, Mohammad Arif³, Stephanie Sherman⁴, Emily Graves Allen⁴, Jessica Hunter⁵, Ariel Zucker^{1,2}, Amanda Kenepp^{1,2}, Veronica J Hinton^{1,2}

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55 Gender- and Age-Specific Differences in Problem Behavior in Children with a Fragile X Premutation

Amanda Kenepp^{1,2}, Sarah L Nolin³, Anne Glicksman³, Nicole Tortora³, Mohammad Arif³, Stephanie Sherman⁴, Emily Graves Allen⁴, Jessica E Hunter⁵, Shira Russell-Giller^{1,2}, Ariel Zucker^{1,2}, Veronica J Hinton^{1,2}

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56 Social Communication and Interaction Deficits in Boys with a Fragile X Premutation

Ariel Zucker^{1,2}, Sarah L Nolin³, Anne Glicksman³, Nicole Tortora³, Mohammad Arif³, Stephanie Sherman⁴, Emily Graves Allen⁴, Jessica E Hunter⁵, Amanda Kenep^{1,2}, Shira Russell-Giller^{1,2}, Veronica J Hinton^{1,2}

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57 The Relationship Between Executive Functioning and CAG Repeat in Juvenile Huntington's Disease

Kaley Boress, Nikolaus Goecke, Patricia Espe-Pfeifer, Aaron Kauer, Peggy Nopoulos

University of Iowa Hospitals and Clinics, Iowa City, IA, USA

58 Population-Based Assessment of Neurodevelopmental and Mental Health Outcomes Among 2,145 Pediatric Patients with Turner Syndrome

Holly N Wakeman^{1,2}, Christa Hutaff-Lee^{1,3}, Laura Pyle³, Anna Furniss³, Natalie Nokoff^{1,3}, Canice Crerand⁴, Shanlee Davis^{1,5}

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59 Neuropsychological Findings in Adolescent-Onset Spinocerebellar Ataxia Type 7 (SCA7)

Laura K Winstone^{1,2}, Diana Mihalache^{1,2}, Cynthia A Austin^{3,2}

¹Department of Psychiatry and Behavioral Sciences, Dell Medical School, University of Texas at Austin, Austin, TX, USA. ²Dell Children's Medical Center, Austin, TX, USA. ³Department of Neurology, Dell Medical School, University of Texas at Austin, Austin, TX, USA

60 Longitudinal Intellectual Functioning in a Boy With Trisomy 8 Mosaicism and Partial Agenesis of the Corpus Callosum

Maximillian A Obolsky¹, Anureet K Gill², Jacqueline P Reis³, Corrine Guilday², Cecily Herby², James E Harness⁴, Frederick W Bylsma³

¹Roosevelt University, Chicago, IL, USA. ²The Chicago School of Professional Psychology, Chicago, IL, USA. ³Neuropsychological Services PC, Chicago, IL, USA. ⁴Midwestern University, Downers Grove, IL, USA

61 Neuropsychological Profile and Behavioral Characteristics Associated with Wiedemann Steiner Syndrome: A Case Series

Rowena Ng^{1,2}, Jacqueline R Harris^{1,2}, Jill A Fahrner²

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins University School of Medicine, Baltimore, MD, USA

12 Neuropsychological Outcomes for Pediatric Brain Tumor Survivors: An Exploration of Proton and Photon Radiation Therapy

Chair

Iris Paltin

The Children's Hospital of Philadelphia; University of Pennsylvania, Philadelphia, USA

269 Neuropsychological Outcomes of Pediatric Brain Tumor Survivors Following Proton Radiation Therapy

Johanna Nielsen¹, Madison Stein¹, Lamia Barakat^{1,2}, Michael Fisher^{1,2}, Christine Hill-Kayser², Robert Lustig², Jane Minturn^{1,2}, Iris Paltin^{1,2}

¹The Children's Hospital of Philadelphia, Philadelphia, PA, USA. ²University of Pennsylvania, Philadelphia, PA, USA

270 Cognitive Outcomes among Infants Treated for Brain Tumors: Consideration of Proton versus Photon Radiation Therapy

Heather M Conklin¹, Jeanelle S Ali¹, Jason M Ashford¹, Michelle A Swain², Lana L Harder³, Bonnie L Carlson-Green⁴, Jonathan M Miller⁵, Joanna Wallace⁶, Ryan J Kaner⁷, Catherine A Billups¹, Arzu Onar-Thomas¹, Amar Gajjar¹, Thomas E Merchant¹

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³Children's Medical Center Dallas, Dallas, TX, USA. ⁴Children's Minnesota, Minneapolis, MN, USA. ⁵Pediatric and Developmental Neuropsychological Services, Eagan, MN, USA. ⁶Lucile Packard Children's Hospital at Stanford, Palo Alto, CA, USA. ⁷Rady Children's Hospital, San Diego, CA, USA

356 Cognitive Predictors of Peer Relations and Social Skills in Pediatric Brain Tumor Survivors Treated with Photon Versus Proton Radiation Therapy

Emily A Warren¹, Kimberly P Rahugbar¹, Paul T Cirino², Amanda E Child³, David R Grosshans⁴, Arnold C Paulino⁴, Fatih Okcu⁵, Charles Minard⁶, Douglas Ris¹, Anita Mahajan⁷, Andres Viana², Murali Chintagumpala⁵, Lisa S Kahalley¹

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602 Patient-Centered Monitoring of Cognitive Late Effects in Pediatric Brain Tumor Survivors.

Karin S Walsh^{1,2}, Katilyn M Tiplady¹, Shawna S van Scoyoc¹, Hannah Weisman¹, Kristina K Hardy^{1,2}

¹Children's National Medical Center, Washington, DC, USA. ²The George Washington University School of Medicine, Washington, DC, USA

Live Program Open

9:55 - 10:00am Thursday, 3rd February, 2022

***LIVE* Plenary B: Open Science and Digital Neuropsychology --- Presenter: Laura Germine**

10:00 - 10:55am Thursday, 3rd February, 2022



Laura Thi Germine, PhD

Assistant Professor of Psychiatry

Harvard Medical School

Director of the Laboratory for Brain and Cognitive Health Technology

McLean Hospital

Plenary B: Open Science and Digital Neuropsychology

Instructional Level: Intermediate

Abstract & Learning Objectives:

This talk will be focused on scientific and ethical considerations at the intersection of digital neuropsychology and open science. This includes basic questions of what it means for data and methods to be 'open' in neuropsychology, who openness benefits, and the difference between openness and accessibility. The talk will also include an overview of digital neuropsychological methods, more generally, in the covid and post-covid era.

Upon conclusion of this course, learners will be able to:

- Describe the different levels of open science / open source as they apply to methods and data in digital neuropsychology
- Explain the difference between openness and accessibility as it applies to both assessment tools and data
- Identify when the use of open source software tools may confer advantages or disadvantages in clinical practice

Speaker Biography:

Dr. Laura Thi Germine is Assistant Professor of Psychiatry at Harvard Medical School and Director of the Laboratory for Brain and Cognitive Health Technology at McLean Hospital. She is also Technical Director of the McLean Institute for Technology in Psychiatry. Dr. Germine's research is oriented around understanding cognitive functioning in health and disease, as well as building technology for studying cognition and behavior using the web and mobile devices. She created one of the first online neuropsychological laboratories in 2005, which later became TestMyBrain.org. She also runs a 501c3 nonprofit organization, the Many Brains Project, dedicated to providing support and access to open source digital neuropsychological assessment tools.

5 min. break

10:55 - 11:00am Thursday, 3rd February, 2022

***LIVE* INS Student Liaison Committee Panel 01: LGBTQ Issues in Neuropsychology**

11:00am - 12:30pm Thursday, 3rd February, 2022

Presenters: Dr. Anthony Correro, Dr. Jason Flatt

Anthony N. Correro II, Ph.D. (he/him) is a clinical neuropsychology postdoctoral fellow with the Michigan Medicine/VA Ann Arbor Healthcare System Network of Postdoctoral Training Programs in Psychology. Dr. Correro received his doctoral degree in Clinical Psychology from Marquette University and completed his predoctoral clinical internship, specializing in neuropsychology, with the VA Boston Healthcare System.

Jason D. Flatt, PhD, MPH | Pronouns: He/Him/They/Them

Jason is an Assistant Professor at the University of Nevada, Las Vegas, School of Public Health, Department of Social and Behavioral Health. Jason's current research works to better understand concerns and needs of diverse people living with Alzheimer's disease, Parkinson's disease and their families. He also teaches courses on community based participatory research and social and behavioral health theory. Jason's research is funded by the National Institutes of Health, National Institute on Aging; American Federation for Aging Research; and The Michael J. Fox Foundation.

For the past 12 years, Jason has leveraged their platform as a public health researcher to work as an advocate for people living with Alzheimer's disease, Parkinson's disease, and their caregivers. To further the reach of their efforts here in Las Vegas, Jason partners with the LGBTQ Center of Southern Nevada, the Nevada Alliance for Student Diversity, and the Nevada Minority Health Equity Coalition. Jason is also working with several community leaders here in Las Vegas to create Building H.O.U.S.E. Las Vegas, a group dedicated to organizing and creating affordable and welcoming housing for LGBTQIA+ community. Jason's work has been featured in the NPR, U.S. News and World Report, The Advocate, Newsweek, as well as at the Alzheimer's Association. Learn more about Jason's research at www.RainbowsofAging.org

Memorial for Muriel Lezak and Mortimer Mishkin

11:00am - 12:30pm Thursday, 3rd February, 2022

Presenters for Dr. Muriel Lezak:

Kathleen Y. Haaland, Ph.D., ABPP-CN, Professor of Psychiatry & Behavioral Sciences, University of New Mexico School of Medicine, Albuquerque, New Mexico USA

Diane Howieson, PhD, ABPP-CN, Assistant Professor Emeritus, Neurology Department, Oregon Health Sciences University, Portland, Oregon, USA

Prof Jennie Ponsford, AO, PhD, Professor of Neuropsychology, School of Psychological Sciences, Monash University, Director, Monash Epworth Rehabilitation Research Centre, Melbourne, Australia, Department of Psychology, Monash University,

Erin D. Bigler Ph.D., ABPP-CN, Professor Emeritus of Psychology and Neuroscience, Founding Director, Magnetic Resonance Imaging (MRI) Research Facility, Brigham Young University, Provo UT, USA

Presenters for Dr. Mortimer Mishkin:

Rus Bauer, Ph.D., Preeminence Professor, University of Florida

Alex Martin, Ph.D., Chief, Section on Cognitive Neuropsychology, NIH

Faraneh Vargha-Khadem, Ph.D., Professor of Developmental Cognitive Neuroscience, University College, London

Muriel Lezak



Muriel Lezak obtained her Bachelors and Masters degrees from the University of Chicago, and her Ph.D in Clinical Psychology from the University of Portland, in 1960. Muriel joined the staff of the Veterans Administration Medical Center in Portland in 1966, where she worked with brain injured patients on both the acute wards and in rehabilitation. This led to research which evolved into a broader study of the emotional and psychosocial of traumatic brain injury. In 1979 she was appointed Assistant Professor of Neurology in what is now the Oregon Health and Sciences University. This was followed in 1985 by joint appointments in Neurosurgery and Psychiatry. She remained active in these positions until her retirement in 2005, when she became Professor Emerita. She was a Diplomate of the American Board of Professional Psychology in both Clinical Psychology and Clinical Neuropsychology, as well as a Fellow of the American Psychological Association. The first edition of Muriel's seminal contribution to neuropsychology, simply entitled *Neuropsychological Assessment*, was first published in 1976. Her book focused on the heterogeneity in the behavioral expression of neurologic disease and approaches to neuropsychological assessment. This was truly a revolutionary contribution since, at the time that it initially appeared, the concept of neuropsychological assessment was considered by some simply to be equivalent of using a single test to determine "organicity," while others believed that an extended and fixed battery was the only appropriate method for the determination of "brain damage." Her book presented a wide variety of techniques not only to quantitate patient performances, but also to aid clinical conceptualization and case formulation. This single volume continues to be emblematic of the scientist - practitioner of model of neuropsychology, and is a

vital reference for all neuropsychologists ranging from the beginning students in the field to seasoned researchers and practitioners. Muriel was also a leader at INS, serving as its president from 1987 to 1988. Throughout her career, she was generous with her opinions, passionate in advocacy for better understanding of emotional and psychosocial consequences of brain injury, and always willing share her expertise and wisdom with more junior members of our society.

Mortimer Mishkin



It is with great sadness, but profound gratitude for a career of outstanding accomplishments, that we note the passing of renowned neuroscientist Mortimer Mishkin on October 2, 2021. Mishkin's work has led to a greater understanding of memory, perceptual function, and the functional anatomy of cognition. Mishkin spent over 60 years at the National Institute of Mental Health, where he served as Chief of the Laboratory of Neuropsychology and where he, along with colleagues and protégés, made some of the most important and seminal discoveries in the history of our field. Unlike his predecessors, who tended to focus on the localized function of specific brain regions, Mishkin's discoveries enabled a broader understanding of distributed neural circuits involved in various cognitive processes. He can truly be regarded as a forerunner of network neuroscience, though his work was tightly grounded in the lesion approach. A distinctive feature of his work is its high degree of clinical relevance and the degree to which his discoveries have had impact all along the science-practice continuum.

Mishkin obtained a Bachelor's degree in Business Management from Dartmouth College in 1947. After serving in the Navy in Japan, he enrolled at McGill University and obtained his Ph.D. in 1951. He began his work at NIMH in 1955, retiring in 2016 at age 90, but returning the next year as a scientist emeritus. He is the recipient of numerous awards and honors, including the National

Medal of Science, awarded in 2010 by President Barack Obama. He was inducted into the National Academy of Sciences in 1984 and the National Academy of Medicine in 1990.

The publication of Scoville & Milner's (1957) famous description of Patient H.M. stimulated decades of basic science and clinical research on the anatomic basis and clinical characteristics of the human amnesic syndrome. Mishkin's lab went to work on understanding the necessary and sufficient components of anatomic damage needed to produce amnesia, and in 1978, published the first articulated animal model of amnesia using the delayed nonmatching-to-sample paradigm (Mishkin, M. [1978]. Memory in monkeys severely impaired by combined but not by separate removal of the amygdala and hippocampus. *Nature*, 273, 297-298.) Mishkin argued that damage to two medial temporal lobe circuits, one involving the hippocampus, the other involving the amygdala, was a necessary prerequisite of profound amnesia, and decades of subsequent work on this "two-circuit" theory has provided an integrated view of memory disorders resulting from damage to temporal lobe, diencephalon, and basal forebrain.

Four years later, Mishkin (with Leslie Ungerleider) introduced the critical concept of "two cortical visual pathways" based on their lesion work with macaque monkeys (Ungerleider, L.G. & Mishkin, M. [1982]. Two cortical visual systems. In D.J. Ingle, M.A. Goodale, and R.J.W. Mansfield (Eds.) *Analysis of Visual Behavior*, pp. 549-586. Cambridge, MA: MIT Press.). This work, cited thousands of times, revealed functional and anatomic separation between a ventral (occipitotemporal) visual circuit important for object recognition, and a dorsal (occipitoparietal) visual circuit important for spatial and action-oriented cognition. This seminal contribution has motivated literally hundreds of clinical and cognitive neuropsychology investigations that used the two-pathway concept in understanding diverse neuropsychological syndromes, including visual agnosia, optic ataxia, apraxia, and spatial disorientation.

A third critical contribution followed shortly thereafter in which Mishkin and colleagues provided a clinic-anatomical explanation of spared skill learning in amnesia by suggesting that episodic memory depended on connections between the cortex and the temporal lobe, while skill/habit learning depended on cortical interactions with the striatum/basal ganglia (Mishkin, M., Malamut, B., & Bachevalier, J. [1984]. Memories and habits: two neural systems. In G. Lynch, J.L. McGaugh, & N.M. Weinberger (Eds.), *Neurobiology of Human Learning and Memory*, pp. 65-77. New York: Guilford Press). This framework has been expanded to appreciate that skill/habit learning is a subset of nondeclarative memory, which also includes perceptual learning, habituation/sensitization, and other behavioral phenomena, each of which has a distinct but overlapping neuroanatomic substrate.

In addition to his scientific contributions, Mishkin trained and mentored some of the outstanding neuroscientists of our time, including Leslie Ungerleider, Elisabeth Murray, John Aggleton, Charles Butter, and Robert Desimone. In a 2011 interview for the Dartmouth Alumni Magazine, Mishkin reflected on the process of scientific discovery in neuropsychology: "Studying the brain is both horribly and wonderfully complicated. It's so frustrating it takes such a long time to figure out even a few of the thousands of circuits, but every discovery is a fantastic high."

The field of neuropsychology owes a profound debt of gratitude to Dr. Mishkin, a neuroscience giant who produced so many exhilarating discoveries and scientific “highs” throughout his career.

994 Muriel Lezak Memorial

Kathleen Y. Haaland, Diane Howieson, Jennie Ponsford, Erin D. Bigler

993 Mortimer Mishkin Memorial

Rus Bauer, Alex Martin, Faraneh Vargha-Khadem, Elisabeth (Betsy) Murray

Symposium 03: Moderate-Severe TBI as a Chronic & Progressive disorder: Latest Findings from the Toronto Rehab TBI Recovery Study and Implications for Neurorehabilitation

11:00am - 12:30pm Thursday, 3rd February, 2022

10 Moderate-Severe TBI as a Chronic & Progressive disorder: Latest Findings from the *Toronto Rehab TBI Recovery Study and Implications for Neurorehabilitation*

Chair

Robin Green

University of Toronto/University Health Network, Toronto, Canada

Discussant

Huw Williams

University of Exeter, Exeter, United Kingdom

997 Introduction - Symposium 03: Moderate-Severe TBI as a Chronic & Progressive disorder: Latest Findings from the Toronto Rehab TBI Recovery Study and Implications for Neurorehabilitation

Robin Green

University of Toronto/University Health Network, Toronto, Canada

592 Estimating the Proportion of Patients with Progressive Brain Volume Loss in the Early and Later Chronic Stages of Moderate-Severe TBI (5-12 months; 1-2+ years) as well as the Respective Rates of Loss

Brenda Colella¹, Georges Monettes², David R Mikulis³, Robin Green¹

¹UHN-KITE, Toronto, Ontario, Canada. ²York University, Toronto, Ontario, Canada. ³UHN-Toronto Western, Toronto, Ontario, Canada

128 The Scale and Timelines of Neurodegeneration in Moderate-Severe Traumatic Brain Injury: A Systematic Review

Bhanu Sharma¹, Leanne Monteiro², Robin Green², Alana Changoor³

¹McMaster University, Hamilton, Ontario, Canada. ²University of Toronto, Toronto, Ontario, Canada. ³University Health Network, Toronto, Ontario, Canada

131 Longitudinal Patterns of the Default Mode and Central Executive Networks in Moderate-Severe Traumatic Brain Injury

Isis So^{1,2}, Liesel Meusel², Bhanu Sharma³, Brenda Colella², Julien Poubanc⁴, Anne Wheeler^{5,1}, Jenny Rabin⁶, David R Mikulis^{1,4}, Robin Green^{2,1}

¹University of Toronto, Toronto, Ontario, Canada. ²KITE-University Health Network, Toronto, Ontario, Canada. ³McMaster University, Toronto, Ontario, Canada. ⁴University Health Network, Toronto, Ontario, Canada. ⁵Hospital for Sick Children, Toronto, Ontario, Canada. ⁶Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada

129 Trajectories of Depression and Anxiety from 2-24+ Months Following Moderate to Severe Traumatic Brain Injury

Laura Heath¹, Muhammad Rafae Kidwai¹, Brenda Colella², Robin Green^{1,2}

¹University of Toronto, Toronto, Ontario, Canada. ²KITE-University Health Network, Toronto, Ontario, Canada

996 Discussion - Symposium 03: Moderate-Severe TBI as a Chronic & Progressive disorder: Latest Findings from the Toronto Rehab TBI Recovery Study and Implications for Neurorehabilitation

Huw Williams

University of Exeter, Exeter, United Kingdom

Symposium 05: From Evidence-Based Guidelines to Clinical Practice: The Case for Pediatric Neuropsychology Care in Multidisciplinary Settings

11:00am - 12:30pm Thursday, 3rd February, 2022

21 From Evidence-Based Guidelines to Clinical Practice: The Case for Pediatric Neuropsychology Care in Multidisciplinary Settings

Chair

Christa Hutaff-Lee

Children's Hospital Colorado, Aurora, USA

Kelly Wolfe

Children's Hospital Colorado, Aurora, USA

Greta Wilkening

Children's Hospital Colorado, Aurora, USA

Discussant

Elise Turner

Children's Hospital Colorado, Aurora, USA

621 Standard of Care Guidelines in Practice: Use of Preventative Models and Multidisciplinary Settings

Greta Wilkening, Elise Turner, Christa Hutaff-Lee, Kelly Wolfe

Children's Hospital Colorado, Aurora, CO, USA

625 Models of Neuropsychological Screening and Targeted Evaluations through Pediatric Multidisciplinary Clinic Integration

Elise Turner, Greta Wilkening, Kelly Wolfe, Andrea Miele, Arianna Martin, Christa Hutaff-Lee

Children's Hospital Colorado, Aurora, CO, USA

626 Training Benefits and Neuropsychology/Other Professional Satisfaction within Multidisciplinary Clinics

Christa Hutaff-Lee, Elise Turner, Kelly Wolfe, Arianna Martin, Andrea Miele, Greta Wilkening

Children's Hospital Colorado, Aurora, CO, USA

627 Practical Considerations and Patient and Family Satisfaction in Pediatric Multidisciplinary Clinics

Kelly Wolfe, Elise Turner, Greta Wilkening, Christa Hutaff-Lee

Children's Hospital Colorado, Aurora, CO, USA

Paper Session 04: Cultural 1

11:00am - 12:30pm Thursday, 3rd February, 2022

1 American Indian and Alaska Native Disparities in Trajectories of Cognitive Aging

Micah J Savin¹, Desiree Byrd², Tedd Judd³, Steve Verney⁴, Kylie Radford⁵, Lucette A. Cysique⁶, Sean B. Rourke⁷, Richard F. Armenta⁸, Donald Franklin⁹, Thomas D. Marcotte⁹, Heining Cham¹, Monica Rivera Mindt^{1,10}

¹Fordham University, Bronx, NY, USA. ²The City University of New York, New York, NY, USA. ³Seattle Pacific University, Seattle, WA, USA. ⁴University of New Mexico, Albuquerque, NM, USA. ⁵Neuroscience Research Australia, Sydney, NSW, Australia. ⁶University of New South Wales, Sydney, NSW, Australia. ⁷Michael's Hospital, Toronto, ONT, Canada. ⁸California State University, San Marcos, San Marcos, CA, USA. ⁹University of California San Diego, San Diego, CA, USA. ¹⁰Icahn School of Medicine at Mount Sinai, New York, NY, USA

2 Perceived Stress and White Matter Hyperintensities: The Role of Race

Desmond R. Warren^{1,2}, Whitney Wharton³, Kay C. Igwe^{4,5}, Maria Misiura^{1,6}, Danielle D. Verble³, Adam M. Brickman^{4,7,8}, Vonetta M. Dotson^{1,9}

¹Department of Psychology, Georgia State University, Atlanta, GA, USA. ²Diversifying the Community of Neuroscience, University of Minnesota, Minneapolis, MN, USA. ³Nell Hodgson Woodruff School of Nursing, Emory University, Atlanta, GA, USA. ⁴Taub Institute for Research on Alzheimer's Disease and the Aging Brain, New York City, NY, USA. ⁵Vagelos College of Physicians and Surgeons, Columbia University, New York City, NY, USA. ⁶Center for Translational Research in Neuroimaging & Data Science, Atlanta, GA, USA. ⁷Department of Neurology, Vagelos College of Physicians and Surgeons, Columbia University, New York City, NY, USA. ⁸Gertrude H. Sergievsky Center, Vagelos College of Physicians and Surgeons, Columbia University, New York City, NY, USA. ⁹Gerontology Institute, Georgia State University, Atlanta, GA, USA

3 The Effects of Acculturation and Perceived Discrimination on Neurocognitive Functioning in Immigrants and U.S. born Individuals with HIV

Denise S. Oleas^{1,2}, Maral N. Aghvinian^{1,2}, Angela A. Summers^{1,2}, Micah J. Savin^{1,2}, Jordan Stiver^{1,2}, Elizabeth A. Breen^{1,2}, Alexander Slaughter^{1,2}, Sandra Talavera², Heining Cham¹, Desiree Byrd^{2,3}, Jessica Robinson-Papp², Monica Rivera Mindt^{1,2}

¹Fordham University, NYC, NY, USA. ²Icahn School of Medicine at Mount Sinai, NYC, NY, USA. ³Queens College and The Graduate Center, City University of New York, NYC, NY, USA

4 Code Switching and Cognitive Performance Among Bilingual Latinx Adults

Alice Gavarrete Olvera^{1,2}, Jet M.J. Vonk³, Adam M Brickman³, Jennifer J Manly³, Desiree Byrd¹, Miguel Arce Rentería³

¹Queens College, Flushing, NY, USA. ²The Graduate Center, Manhattan, NY, USA. ³Columbia University Irving Medical Center, Manhattan, NY, USA

5 Second language proficiency, balanced bilingualism, and cognition in middle-aged Latinx

Andrew N Bueno¹, Miguel Arce Rentería², Jet M.J. Vonk², Alicia R Pacheco², Adam M Brickman², Jennifer J Manly²

¹Columbia Vagelos College of Physicians and Surgeons, New York, NY, USA. ²Taub Institute at Columbia University Medical Center, New York, NY, USA

6 Rationale and Results of an Advanced Cross-Cultural Initiative Recently Completed

Sharon Truter, Ann B Shuttleworth-Edwards

Rhodes University, Grahamstown, South Africa

Poster Session 07: Movement | MS | Cognitive Rehab | Neurostimulation

11:00am - 12:00pm Thursday, 3rd February, 2022

1 Measures of Vertical Attention Predict Gait Performance

Benjamin A Chapin¹, John B Williamson¹, Sudeshna A Chatterjee¹, Brigitte Cox¹, Michal Harciarek², Aleksandra Mankowska², Kenneth M Heilman¹, David J Clark¹

¹University of Florida, Gainesville, Florida, USA. ²University of Gdansk, Gdansk, Poland

2 Perceived Effects of Individualized Cognitive Training in Adults with HAND

Wei Li¹, Victor Del Bene¹, Ge Wang², Kristen Triebel¹, Karli Martin¹, Jun Byun¹, Andres Azuero¹, Pariya L Fazeli¹, David E Vance¹

¹University of Alabama at Birmingham, Birmingham, Alabama, USA. ²Huazhong University of Science and Technology, Wuhan, Hubei, China

3 Instrumental Activities of Daily Living After Working Memory Training

Daniel A Landinez^{1,2}, David A Montoya^{3,4}

¹Universidad Catolica Luis Amigo, Manizales, Caldas, Colombia. ²Universidad de Manizales, Manizales, Caldas, Colombia. ³Universidad Pontificia Bolivariana, Medellin, Antioquia, Colombia. ⁴Universidad San Buenaventura, Medellin, Antioquia, Colombia

4 Examining the Patterns of Compensatory Strategy Usage as Self-Reported Memory Complaints Increase

Molly B Tassoni, Tania Giovannetti

Temple University, Philadelphia, PA, USA

5 A Systematic Review of the Benefits of Olfactory Interventions on Cognitive and Neurological Outcomes Across Clinical Populations

Karli M Martin, Jennifer S Frank, Sai Rashmi Nakkina, Joseph Anderson, Surina Prabhu, Pariya L Wheeler, Wei Li, Victor A. Del Bene, Kristen Triebel, David E Vance

University of Alabama at Birmingham, Birmingham, AL, USA

6 Cognitive Telerehabilitation Group Intervention for Cognitive Impairments in Traumatic Brain Injury and Brain Tumor Populations: A Feasibility Study

Melissa S Brie^{1,2}, Alexa R Greenstein¹, Stephanie Phan², Michele Diaz², Susan Chang¹, Christina Weyer Jamora^{1,2}

¹Department of Neurological Surgery, University of California, San Francisco, San Francisco, California, USA.

²Department of Psychiatry and Behavioral Sciences, Zuckerberg San Francisco General Hospital, San Francisco, California, USA

7 Personalized Smartphone Reminder Application Facilitates Relevant Everyday Activities in the Home for Individuals with Mild Cognitive Impairment and Dementia

Katherine Hackett, Sarah M Lehman, Moira McKniff, Emma Pinsky, Chiu C Tan, Tania Giovannetti

Temple University, Philadelphia, PA, USA

8 New Directions in Rehabilitation of Functional Impairment: Leveraging Technology to Develop and Implement Theoretically Informed Interventions for Everyday Activities

Rachel E Mis, Tania Giovannetti

Temple University, Philadelphia, PA, USA

9 Does Mindfulness-Based Stress Reduction Improve Neurocognitive Performances in Veterans with Gulf War Illness?

David P. Sheppard¹, Justin E. Karr², Simon B. Goldberg^{3,4}, Tracy L. Simpson^{1,5,6}, David J. Kearney^{1,7}, Kathleen F. Pagulayan^{1,6}

¹Veterans Affairs (VA) Northwest Network (VISN 20) Mental Illness, Research, Education, and Clinical Care (MIRECC), Veterans Affairs Puget Sound Health Care System, Seattle, WA, USA. ²Department of Psychology, University of Kentucky, Lexington, KY, USA. ³Department of Counseling Psychology, University of Wisconsin – Madison, Madison, WI, USA. ⁴Center for Healthy Minds, University of Wisconsin-Madison, Madison, WI, USA. ⁵Center of Excellence in Substance Abuse Treatment and Education (CESATE), Veterans Affairs Puget Sound Health Care System, Seattle, WA, USA. ⁶Department of Psychiatry and Behavioral Sciences, University of Washington School of Medicine, Seattle, WA, USA. ⁷Department of Medicine, University of Washington School of Medicine, Seattle, WA, USA

10 Pilot Study Investigating the Feasibility and Potential Benefits of a Parent-delivered Cognitive Intervention for Attention and Executive Function in a Mixed Pediatric Sample

Sarah J Macoun¹, Meghan Crane², Buse Bedir², Jessica Lewis², Yaewon Kim², Shelley Masters², John C Sheehan², Tom Arjannikov², Peiman Haghighat³, Brian Katz⁴, Robyn Woods³, Ryan D'Arcy⁵, Stella Babatunde³

¹University of Victoria, Victoria, BC, Canada. ²UVIC, Victoria, BC, Canada. ³Kids Uncomplicated, Calgary, Alberta, Canada. ⁴The Centre for Child Development, Surrey, BC, Canada. ⁵HealthTech Connex, Surrey, BC, Canada

11 Efficacy of an Adaptive 3-Month Cognitive Training Intervention on Proximal Transfer Across Domains in an Older Adult Population

Jessica N Kraft¹, Cheshire Hardcastle¹, Emanuel M Boutzoukas¹, Nicole D Evangelista¹, Hanna K Hausman¹, Andrew O'Shea¹, Alejandro Albizu¹, Emily J Van Etten², Pradyumna Bharadwaj², Hyun Song², Samantha G Smith², Steven DeKosky¹, Georg A Hishaw², Samuel Wu¹, Michael Marsiske¹, Ronald Cohen¹, Gene E Alexander², Eric Porges¹, Adam J Woods¹

¹University of Florida, Gainesville, FL, USA. ²University of Arizona, Tucson, AZ, USA

12 A Transdiagnostic Approach to the Teen Online Problem Solving Program: Website Adaptation and Therapist Training

Sandra Glazer, Jamie Patronick, Lizy LeBlond, Jillian Ketz, Caroline Gates, Shari L. Wade

Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA

13 Compensation Training and Lifestyle Modifications to promote healthy aging in persons at risk for Alzheimer's disease

Sarah Tomaszewski Farias¹, Alyssa Weakley¹, Michelle L Chan¹, Jaclyn Fox¹, Holly Dulaney¹, Brook Beech², Catherine Luna², Jagnoor Randhawa¹, Sudev Namboodiri¹, Schmitter-Edgecombe Maureen²

¹UC Davis, Sacramento, USA. ²Washington State University, Pullman, USA

14 Impact of In-Person versus Virtual Interventions on Persons with Acquired Brain Injury and their Caregivers.

Thomas F. Bergquist¹, Rylea M. Ranum², Aimee Karstens¹

¹Mayo Clinic, Rochester, MN, USA. ²Luther College, Decorah, IA, USA

15 Enhancing Verbal Memory Performance Using Errorless Learning and Self-Generation in a Depressed Population

Bethany G Gorter, Chelsey M Maxson

University of Montana, Missoula, MT, USA

16 Implementation Feasibility and Process for Remote Parent-Delivery of a Neurocognitive Intervention in Autism Spectrum Disorder (ASD)

Jessica M Lewis¹, Yaewon Kim¹, Shelley Masters¹, Andrea Kasian¹, Tom Arjannikov¹, John Sheehan¹, Buse Bedir¹, Peiman Haghighat², Brian Katz³, Robyn Woods², Ryan D'Arcy⁴, Sarah J Macoun¹

¹University of Victoria, Victoria, BC, Canada. ²The Uncomplicated Family, Calgary, AB, Canada. ³The Centre for Child Development, Surrey, BC, Canada. ⁴HealthTech Connex, Surrey, BC, Canada

17 Default Mode Network Changes Following Goals-Oriented Attentional Self-Regulation Training in Veterans with Mild Traumatic Brain Injury: Preliminary Findings from a Randomized Controlled Trial

Maria E Kryza-Lacombe^{1,2}, Anna Hwang^{2,3}, Brian A Maruyama², Jerry Chen², Sky Raptentsetsang², Gary Abrams², Tatjana Novakovic-Agopian^{2,3}, Pratik Mukherjee^{2,3}

¹San Diego State University/University of California, San Diego, Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²Department of Veterans Affairs, San Francisco VA Health Care System, San Francisco, CA, USA. ³University of California, San Francisco, San Francisco, CA, USA

18 Title: Computerized Cognitive Training Interventions as an Augment for Cognitive Rehabilitation Following Mild Traumatic Brain Injury: A Comparison of Two Programs

Sharis Sarkissians¹, Jason M Bailie^{2,3,4}, Juan Lopez^{2,3,4}, Melissa Jensen^{2,3,4}, Angela Basham^{2,3,4}, Ida Babakhanyan^{2,3,4}

¹California School of Professional Psychology, Pasadena, CA, USA. ²Traumatic Brain Injury Center of Excellence, San Diego, CA, USA. ³Naval Hospital Camp Pendleton, San Diego, CA, USA. ⁴General Dynamics Information Technology, Falls Church, VA, USA

19 Systematic Review of Combined tDCS and Cognitive Training Interventions

Cynthia Z Burton¹, Emily O Garnett¹, Emily Capellari¹, Benjamin M Hampstead^{1,2}, Stephan F Taylor¹

¹University of Michigan, Ann Arbor, MI, USA. ²VA Ann Arbor Healthcare System, Ann Arbor, MI, USA

20 Interactive-Care development: A promising new tool for remote family caregiving of older adults with cognitive impairment

Alyssa Weakley¹, Sudev Namboodiri¹, Bryan Zhang², Albara Ramli², Xin Liu², Sarah Farias¹

¹University of California, Davis School of Medicine, Sacramento, CA, USA. ²University of California, Davis, Davis, CA, USA

21 Chiari Malformation, Neuropsychological Testing and Neuropsychological Intervention: A Case Series

Sarah A Mandelbaum, Rachel Ribakove, Taylor Liberta, Sophia Lall, Andrew Lokai, Jessica Spat-Lemus, Heidi A Bender, Amanda Sacks-Zimmerman

Weill Cornell Medicine Neurological Surgery, New York, NY, USA

22 Integrated Cognitive Remediation/CBT Group Treatment for Persistent Neurocognitive and Psychiatric Sequelae of COVID 19 (PNSC)

Amanda Sacks-Zimmerman, Jessica Spat-Lemus, Heidi Bender, Sarah A Mandelbaum, Melinda Cornwell

Weill Cornell Medicine Neurological Surgery, New York, NY, USA

23 Does Comorbid Bipolar Disorder Influence Cognition in Parkinson's Disease Patients?

Allison M Nobles, Steven A Rogers

Westmont College, Santa Barbara, CA, USA

24 The Cognitive Profile of Impulse Control Disorders in Parkinson's Disease

Brittany D. Walls, Krista D. Hanson, Alexander I. Tröster

Barrow Neurological Institute, Phoenix, AZ, USA

25 Validation of tele-neuropsychology in pre-surgical Deep Brain Stimulation for Parkinson's disease

Micah J Savin¹, Ilana Lefkovitz², Christina A Palmese²

¹Fordham University, New York, NY, USA. ²Icahn School of Medicine at Mount Sinai, New York, NY, USA

26 The Relationship Between Resilience and Quality of Life in Individuals with Parkinson's Disease

Angelle E. Cabrera Tuazon¹, Marina Nakhla^{1,2}, Erin Almklov¹, Raeanne C. Moore³, J. Vincent Filoteo^{4,3,5}, Ece Bayram^{5,1}, Stephanie Lessig^{6,5}, Irene Litvan⁵, Dawn M. Schiehser^{1,3}

¹Research Service, VA San Diego Healthcare System, San Diego, CA, USA. ²San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³Department of Psychiatry, University of California San Diego, La Jolla, CA, USA. ⁴Psychology Service, Veterans Affairs San Diego Healthcare System, San Diego, CA, USA. ⁵Department of Neurosciences, University of California San Diego, La Jolla, CA, USA. ⁶Neurology Service, VA San Diego Healthcare System, San Diego, CA, USA

27 Coping Strategies Used by Persons with Parkinson's Disease during the COVID-19 Pandemic

Rini I Kaplan, Celina F Pluim, Shraddha B Kinger, Joshua T Fox-Fuller, Alice Cronin-Golomb

Boston University, Department of Psychological and Brain Sciences, Boston, MA, USA

28 Predictors of Quality of Life in Care Partners of Persons with Parkinson's Disease: Results from an Online Survey

Celina F. Pluim, Rini I. Kaplan, Shraddha B. Kinger, Joshua T. Fox-Fuller, Alice Cronin-Golomb

Boston University, Boston, MA, USA

29 Self and Informant Ratings of Executive Functioning in Parkinson's Disease

Murphy Harrell¹, Hannah Darwazah¹, Peter Isquith², Robert Roth¹

¹Dartmouth-Hitchcock, Lebanon, NH, USA. ²Boston Children's Hospital, Boston, MA, USA

30 Motivation Disorders and Executive Dysfunction in Parkinson's Disease

Francesca V. Lopez, Chloe LaRochelle, Adrianna M. Ratajska, Lauren Kenney, Bonnie M. Scott, Robert Eisinger, Dawn Bowers

University of Florida, Gainesville, FL, USA

31 Impact of online versus face-to-face administration for endorsement of impulse control disorders in Parkinson disease: Do methods matter?

Bonnie M Scott^{1,2}, Robert S Eisinger³, Revath Sankar², Jared F Bengel², Robin C Hilsabeck², Aysegul Gunduz^{3,4}, Dawn Bowers¹

¹University of Florida, Department of Clinical and Health Psychology, Gainesville, FL, USA. ²University of Texas at Austin, Dell Medical School, Department of Neurology, Austin, TX, USA. ³University of Florida, Norman Fixel Institute of Neurological Diseases, Department of Neuroscience, Gainesville, FL, USA. ⁴University of Florida, J. Crayton Pruitt Department of Biomedical Engineering, Gainesville, FL, USA

32 From pleasure to punding: Distinct patterns of anhedonia and impulsivity in individuals with Parkinson disease and motivational disturbances.

Bonnie M Scott^{1,2}, Robert S Eisinger³, Amtul-noor Rana², Jared F Bengel², Robin C Hilsabeck², Aysegul Gunduz^{3,4}, Dawn Bowers¹

¹University of Florida, Department of Clinical and Health Psychology, Gainesville, Florida, USA. ²University of Texas at Austin, Dell Medical School, Department of Neurology, Austin, Texas, USA. ³University of Florida, Norman Fixel Institute of Neurological Diseases, Department of Neuroscience, Gainesville, Florida, USA. ⁴University of Florida, J. Crayton Pruitt Department of Biomedical Engineering, Gainesville, Florida, USA

33 Relating the Impact of the COVID-19 Pandemic to Non-Motor Symptoms in Parkinson's Disease: Results from an Online Survey

Shraddha B. Kinger, Rini I. Kaplan, Celina F. Pluim, Joshua T. Fox-Fuller, Alice Cronin-Golomb

Boston University, Boston, MA, USA

34 Improving Movement Awareness and Responsivity of the Sensorimotor Cortical Network via Feldenkrais Method: Psychometric and Electrophysiological Evidence

Davide Crivelli^{1,2}, Massimilla Di Ruocco³, Michela Balconi^{1,2}

¹International Research Center for Cognitive Applied Neuroscience (IrcCAN), Catholic University of the Sacred Heart, Milan, Italy. ²Research Unit in Affective and Social Neuroscience, Department of Psychology, Catholic University of the Sacred Heart, Milan, Italy. ³Sesto Senso Feldenkrais Association, Milan, Italy

35 Predicting Risk of Cognitive Impairment in Parkinson's Disease Using Concomitant Health Conditions in a Pre-Surgical Deep Brain Stimulation Sample

Sheliza Ali, Elizabeth R. Wallace, Lisa M. Koehl

University of Kentucky, Lexington, KY, USA

36 More Than Meets the Eye: Case Study of Rare Phenotype in Progressive Supranuclear Palsy

Jessie Tibbs, John Linck, Morgan B Glusman

University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma, USA

37 Executive Functioning in Primary Dystonia: A Meta-Analysis

Jasmin H Pizer¹, Stephen L Aita², Nanako A Hawley¹, Melissa A Myers¹, Victor A Del Bene³, Dario A Marotta⁴, Lindsay Niccolai⁵, Harrison C Walker³, Adam Gerstenecker³, Roy C Martin³, Olivio J Clay⁶, Michael Crowe⁶, Kristen L Triebel³, Benjamin D Hill¹

¹Department of Psychology, University of South Alabama, Mobile, AL, USA. ²Department of Psychiatry, Geisel School of Medicine at Dartmouth, Hanover, NH, USA. ³Department of Neurology, University of Alabama at Birmingham School of Medicine, Birmingham, AL, USA. ⁴Alabama College of Osteopathic Medicine, Dothan, AL, USA. ⁵Department of Neuro-Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA. ⁶Department of Psychology, University of Alabama at Birmingham, Birmingham, AL, USA

38 Assessing Validity of the Money's Road Map Test in a Parkinson's Disease Sample

Lisa N. Cruz^{1,2}, Pat Olsen¹, Laura Sebow^{1,2}, Shonna J. Schneider^{1,2}, Jennifer Miller^{1,2}, Paul J. Mattis¹

¹Department of Neurology, Northwell Health, New Hyde Park, NY, USA. ²Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, USA

39 Depressive Symptoms Influence Patients' and Caregivers' Perceptions of Neurobehavioral Changes in Parkinson Disease

Brittany Z Crowley¹, James T Patrie¹, Scott A Sperling²

¹University of Virginia, Charlottesville, VA, USA. ²Cleveland Clinic, Cleveland, OH, USA

40 Subjective Memory Impairment and Emotional Health in Parkinson's Disease

Jeffrey C. Wertheimer, Dan Fenton, Nicole Liedike, Ann Gottuso

Cedars-Sinai Medical Center, Los Angeles, CA, USA

41 Utility of the ALSFRS-R for Predicting ALS and Comorbid Disease Neuropathology: The Veterans Affairs Biorepository Brain Bank

Leigh E. Colvin¹, Zachariah Foster¹, Thor Stein^{1,2,3}, Manisha Thakore-James^{1,2}, Keith Spencer¹, Nazifa Abdul Rauf¹, Latease Adams¹, James Averill⁴, Sean Walker⁴, Ian Robey⁴, Victor Alvarez^{1,2,3}, Bertrand Huber^{1,2,3}, Ann McKee^{1,2,3}, Neil Kowall^{1,2,3}, Christopher B Brady^{1,2,3}

¹VA Boston Healthcare System, Boston, MA, USA. ²Boston University School of Medicine, Boston, MA, USA.

³Harvard Medical School, Boston, MA, USA. ⁴Southern Arizona VA Healthcare System, Tucson, AZ, USA

42 Dynamic Functional Connectivity Between the Dorsolateral Prefrontal Cortex and Cerebellum is Associated with Short-Term Memory Ability in Relapsing-Remitting Multiple Sclerosis

Mark D Zuppichini¹, Dinesh K Sivakolundu², Kathryn L West³, Darin T Okuda⁴, Bart Rypma¹

¹University of Texas at Dallas, Richardson, TX, USA. ²Yale School of Medicine, New Haven, CT, USA. ³Center for BrainHealth, Dallas, TX, USA. ⁴University of Texas Southwestern Medical Center, Dallas, TX, USA

43 Processing Speed and not Executive Function Mediates Prospective Memory among People with Multiple Sclerosis

Jordan R. Hoffmeister¹, Michael R. Basso², Ryan Mulligan¹, Douglas M. Whiteside³, Dennis Combs⁴, Eoin Flanagan²

¹The University of Tulsa, Tulsa, OK, USA. ²Mayo Clinic, Rochester, MN, USA. ³University of Minnesota Medical School, Minneapolis, MN, USA. ⁴University of Texas at Tyler, Tyler, TX, USA

44 Quality of Life and Subjective and Objective Cognitive Impairment: What's Sleep got to do with it?

Kaitlin E Riegler¹, Cristina A.F. Roman², Margaret H Cadden³, Erin T Guty^{1,4}, Garrett A Thomas¹, Megan L Bradson¹, Peter A Arnett¹

¹Pennsylvania State University, University Park, PA, USA. ²Warren Alpert Medical School of Brown University, Providence, RI, USA. ³Harvard Medical School; Massachusetts General Hospital; Brigham and Women's Hospital, Boston, MA, USA. ⁴The Medical University of South Carolina; Ralph H. Johnson VA Medical Center, Charleston, SC, USA

45 Cognitive Reserve Moderates the Effect of Perceived Cognitive, Physical, Psychosocial and Overall Fatigue on Depression in Multiple Sclerosis

Megan L. Bradson¹, Kaitlin E. Riegler¹, Margaret H. Cadden², Erin T. Guty^{1,3}, Garrett A. Thomas¹, Peter A. Arnett¹

¹Penn State University, University Park, PA, USA. ²Harvard Medical School, Massachusetts General Hospital, Brigham and Women's Hospital, Boston, MA, USA. ³The Medical University of South Carolina, Ralph H. Johnson VA Medical Center, Charleston, SC, USA

46 Comparison of Factor Structure of Self- and Informant-Reported Fatigue on the Fatigue Impact Scale in a Multiple Sclerosis Sample

Stephen L. Aita^{1,2}, John J. Randolph^{1,3}, Grant G. Moncrief^{1,2}, John D. Fisk⁴, Heather A. Wishart^{1,2}

¹Geisel School of Medicine at Dartmouth, Hanover, NH, USA. ²Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA. ³Randolph Neuropsychology Associates, PLLC, Lebanon, NH, USA. ⁴Dalhousie University, Halifax, NS, Canada

47 Subjective Executive Functioning in Multiple Sclerosis

Hannah Darwazah, Murphy N Harrell, Peter K Isquith, Robert M Roth

Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA

48 Testing a Cognitive Model for Cognitive Fatigue in Individuals with Multiple Sclerosis

Fareshte R. Erani¹, Darshan Patel¹, Maria T. Schultheis¹, John D. Medaglia^{1,2}

¹Drexel University, Philadelphia, PA, USA. ²University of Pennsylvania, Philadelphia, PA, USA

49 Cognitive Predictors of Understanding Medical Treatment Decisions in Multiple Sclerosis

Christopher W Collette, Karli Martin, Hyun B Freeman, Sarah Whiten, Emily R Sargent, Terina L Myers, Amani Norling, Khurram Bashir, Ronald M Lazar, Adam Gerstenecker

University of Alabama at Birmingham, Birmingham, Alabama, USA

50 Standalone Performance Validity Test Scores and Neuroradiological Disease Burden in Patients with Multiple Sclerosis

John W Lace, Kunio Nakamura, Scott Husak, Daniel Ontaneda, Rachel Galioto

Cleveland Clinic, Cleveland, OH, USA

51 Young-Onset Autoimmune Mediated Encephalomyelitis: ADEM, NMO, MS, or Post Infectious

Humza Khan, Maureen Lacy

University of Chicago Department of Psychiatry, Chicago, IL, USA

52 An Examination of Dementia Risk in Parkinson Disease: The Dual-Syndrome Hypothesis

Dale Summers¹, Kristie Spencer¹, Connie Okasaki¹, Kevin Lakhani²

¹University of Washington, Seattle, WA, USA. ²N/A, Seattle, USA

53 Longitudinal Change in Hippocampal Subfields, CSF Biomarkers, and Cognition in Patients with Parkinson Disease Without Dementia

Anna Horner¹, Erik Erhardt², Nicholas Shaff¹, Chris Wertz¹, Alexandra Hartman¹, Andrei Vakhtin¹, Andrew Mayer¹, John Adair³, Janice Knoefel³, Gerson Suarez Cedeno³, Amanda Deligtisch³, Sarah Pirio Richardson³, Sephira Ryman¹

¹Mind Research Network, Translational Neuroscience, Albuquerque, USA. ²University of New Mexico, Department of Mathematics and Statistics, Albuquerque, USA. ³University of New Mexico Healthy Science Center, Department of Neurology, Albuquerque, USA

54 Regional White Matter Fiber Tracts and Cognition in Parkinson's Disease

Stephanie Nitschke¹, Anna Horner¹, Andrei Vakhtin¹, Nicholas Shaff¹, David Stone¹, Chris Wertz¹, Alexandra Hartman¹, Andrew Mayer¹, John Adair², Janice Knoefel², Gerson Suarez Cedeno², Amanda Deligtisch², Sarah Pirio Richardson², Sephira Ryman¹

¹Mind Research Network, Translational Neuroscience, Albuquerque, NM, USA. ²University of New Mexico Healthy Science Center, Department of Neurology, Albuquerque, NM, USA

55 Cognitive Effects of Thalamotomy for Tremor: A Meta-Analysis

Isabella J. Sewell¹, Camryn R. Rohringer¹, Shikha Gandhi¹, Jonah Isen¹, Benjamin Davidson^{1,2,3}, Melissa McSweeney¹, Walter Swardfager¹, Richard H. Swartz^{1,4}, Clement Hamani^{1,2,3}, Peter Giacobbe^{1,3,5}, Sean Nestor^{1,3,5}, Michael Schwartz^{1,2}, Agessandro Abrahao^{1,3,4}, Nir Lipsman^{1,2,3}, Jennifer S. Rabin^{1,3,4,6}

¹Hurvitz Brain Sciences Program, Sunnybrook Research Institute, Toronto, Ontario, Canada. ²Division of Neurosurgery, Department of Medicine, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Ontario, Canada. ³Harquail Centre for Neuromodulation, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada.

⁴Division of Neurology, Department of Medicine, Sunnybrook Health Sciences Centre, University of Toronto, Toronto, Ontario, Canada. ⁵Department of Psychiatry, Sunnybrook Health Sciences Centre, Toronto, Ontario, Canada.

⁶Rehabilitation Sciences Institute, University of Toronto, Toronto, Ontario, Canada

56 Assessment of Cognitive Safety with the Utilization of MRgFUS Thermoablation of the Ventral Intermediate Nucleus of the Thalamus in Essential Tremor Patients

Alec C Neale^{1,2}, Claire Speelman¹, Vibhor Krishna¹, Aristide Merola¹, Barbara Changizi¹, Laura Boxley¹, Erica Dawson¹, Samantha DeDios-Stern¹, Christopher M Nguyen¹, Darrin M Aase¹

¹The Ohio State University, Columbus, OH, USA. ²Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA

57 Preliminary Evidence of Non-Invasive Vagal Nerve Stimulation Effects on Parasympathetic Activity During Sleep in Veterans with Post-Traumatic Stress Disorder

Sarah A Bottari¹, Damon G Lamb¹, Eric C Porges¹, Aidan J Murphy², Amy B Tran¹, Raffaele Ferri³, Michael S Jaffee¹, Simon Hartmann⁴, Mathias Baumert⁴, John B Williamson¹

¹University of Florida, Gainesville, FL, USA. ²Harvard University, Boston, MA, USA. ³Oasi Research Institute, Troina, Italy. ⁴University of Adelaide, Adelaide, Australia

58 Heart-Rate Variability Predicting Executive Functions in Accelerated Intermittent Theta-burst Stimulation for Treatment-Resistant Depression

Elizabeth Choi^{1,2}, Rowena Gomez¹, Nolan Williams²

¹Palo Alto University, Palo Alto, CA, USA. ²Stanford Brain Stimulation Lab, Stanford, CA, USA

Coffee Break

12:30 - 1:00pm Thursday, 3rd February, 2022

***LIVE* Invited Symposium 2: Building a Research Career in Neuropsychology --
Chair: Ruchika S. Prakash Presenters: Desiree Byrd, Cerise Elliott, Stephen M. Rao**

1:00 - 2:25pm Thursday, 3rd February, 2022



Chair: Ruchika S. Prakash, PhD

Professor of Psychology

Director of the Center for Cognitive and Behavioral Brain Imaging

The Ohio State University

Invited Symposium 2: Building a Research Career in Neuropsychology

Instructional Level: Intermediate

Abstract & Learning Objectives:

This symposium is geared towards early career neuropsychologists, mentors, and institutions committed to furthering research in the field of neuropsychological sciences. The symposium speakers will discuss best practices for building a programmatic line of research, securing funding, balancing clinical work with research, networking, and promoting your research activities in academia. This symposium will also identify barriers and challenges that interfere with neuropsychological science career progression for underrepresented scholars. The presentations will identify evidence-based strategies and solutions for trainees, mentors, and institutions that will effectively support science career success in neuropsychological trainees.

Upon conclusion of this course, learners will be able to:

- Identify strategies to build and strengthen a program of research
- Describe training components necessary for securing tenure-track and academic medical center research positions
- Discuss effective structural, institutional, and individual level responses that facilitate entry to and persistence in neuropsychological science careers

Chair Biography:

Dr. Ruchika S. Prakash is a Professor in the Department of Psychology at The Ohio State University (OSU). She is the Director of the Center for Cognitive and Behavioral Brain Imaging; a state-of-the-art neuroimaging research facility housed in the Department of Psychology. Dr. Prakash received her doctoral degree in clinical psychology at the University of Illinois at Urbana-Champaign in 2009. That same year, she started as an Assistant Professor at OSU and established the Clinical Neuroscience Lab. The goal of her research program is to develop and test the efficacy of various mind-body interventions in improving the cognitive and affective health of older adults and individuals with neurological disabilities. She has published 74 peer-reviewed journal articles with many of her papers published in top-tier psychology and neuroscience journals—such as *Psychology and Aging*, *Proceedings of the National Academy of Sciences*, *NeuroImage*, *Cerebral Cortex*, and *Developmental Psychology*. She received the “Rising Star Designation” given by the Association for Psychological Science in 2013 and the Springer Early Career Achievement in Research on Adult Development and Aging by the American Psychological Association in 2016. Her research program is funded by the National Institutes of Health and the National Multiple Sclerosis Society. Dr. Prakash has served on several faculty search committees, including chairing a faculty search in Clinical Neuroscience. She is a standing member on the Human Complex Mental Function study section at the National Institutes of Health and the pilot grant study section at the National Multiple Sclerosis Society.



Desiree Byrd, PhD, ABPP

Dr. Desiree Byrd is an Associate Professor of Psychology at the City University of New York, Queens College and the Graduate Center with a joint appointment in Neurology at the Icahn School of Medicine at Mount Sinai. She is a board-certified neuropsychologist and a nationally recognized leader in the field of cross-cultural neuropsychology. Her research focuses on the roles of health disparities and culture in the expression of cognitive dysfunction in central nervous system disease. Her interests are in aging, dementia, HIV, substance use, and under-represented populations. Pairing her research interests with dedicated training and advocacy to increase the diversity of scientists and research participants in neuropsychology is a privilege that she has proudly, humbly and enthusiastically devoted time to throughout her career. She has authored over 50 peer-reviewed publications and 10 book chapters. Her research has been supported by the National Institutes of Health and the Alzheimer's Association. She has served in leadership positions for the American Psychological Association, the American Academy of Clinical Neuropsychology and the National Academy of Neuropsychology. She is a Fellow of the American Psychological Association and the National Academy of Neuropsychology and a sitting member of the National Institute of Aging-Neuroscience study section.



Cerise Elliott, PhD

Dr. Cerise Elliott is currently a Program Director for the Clinical Interventions and Diagnostics Branch of the Division of Neuroscience (DN) at the NIA. She has been a member of the DN staff since January 2008, creating evaluation and management systems for nine research portfolios. She coordinates health disparities research for Alzheimer's disease and leads the Alzheimer's Disease Research Centers program. She previously held positions at the NIH in the Office of Intramural Research and the Office of Extramural Research for the Office of the Director from 2004 to 2008 where she was the liaison with non-profit organizations, patient advocacy groups, drug industry and individuals to effectively and creatively disseminate NIH policies and programs to stakeholders. Dr. Elliott received her B.S. in Chemistry from Creighton University in Omaha, NE and her Ph.D. in Neuroscience from the University of Nebraska Medical Center also in Omaha, NE. Her scientific research focused on cell apoptosis controlled by peripheral T cells in multiple sclerosis. Her recent programmatic interests are creating new and effective scientific collaborations, facilitating successful mentoring relationships among grantees and providing effective evaluation of program development. Dr. Elliott is published in journals and has served on a number NIA and NIH committees and workgroups.



Stephen M. Rao, Ph.D., ABPP-Cn

Dr. Stephen M. Rao is the Ralph and Luci Schey Endowed Chair and Director of the Schey Center for Cognitive Neuroimaging at the Cleveland Clinic and Professor, Cleveland Clinic Lerner College of Medicine of Case Western Reserve University. He obtained his Ph.D. in Clinical Psychology from Wayne State University (Detroit) and completed a predoctoral internship at Rush-Presbyterian-St. Luke's Medical Center (Chicago). Prior to joining the Cleveland Clinic in May of 2007, he was Director of the Functional Imaging Research Center and Professor of Neurology (Neuropsychology) at the Medical College of Wisconsin (Milwaukee). He has authored over 200 scientific papers/book chapters and edited four books. He is the principal investigator of two large-scale NIA-funded research projects designed to better understand the role of physical activity as neuroprotection against Alzheimer's disease in cognitively intact elders at genetic risk for AD. His research has also involved the application of advanced neuroimaging techniques (task-activated and resting-state fMRI; diffusion tensor imaging) to understand the disruption of brain circuits mediating memory, attention, motor control, temporal information processing, and conceptual reasoning in normal aging and in individuals in the preclinical stage of Alzheimer's and Huntington's diseases, patients with multiple sclerosis, and military personnel with blast-related traumatic brain injury. His lab has developed and validated self-administered iPad-based apps for testing neuroperformance in multiple sclerosis patients and for mass screening of cognitive dysfunction in older patients attending primary care clinics. He has been a recipient of a National Institutes of Health Research Career Development Award and has received funding from the National Institute of Neurological Disorders and Stroke, National Institute of Mental Health, National Institute on Aging, US Department of Defense, CHDI Foundation, Charles A. Dana Foundation, and National Multiple Sclerosis Society. He is the Editor-in-Chief of the Journal of the International Neuropsychological Society published by Cambridge University Press and Associate Editor of American Psychologist and former Editor of Neuropsychology published by the American Psychological Association (APA), and a member of the editorial boards of eight other journals. He has served as Chair of the APA Publications and Communications Board, President of the International Neuropsychological Society (INS), member of the INS Board of Governors, Chair of the scientific program committee for the INS annual scientific meeting, and member of the Board of Directors of the American Board of Clinical Neuropsychology.

Symposium 08: PediaTrac: A Longitudinal Tool to Measure and Track Infant and Toddler Development

1:00 - 2:25pm Thursday, 3rd February, 2022

27 PediaTrac: A Longitudinal Tool to Measure and Track Infant and Toddler Development

Chair

Renée Lajiness-O'Neill

Eastern Michigan University, Ypsilanti, USA

Discussant

H. Gerry Taylor

Nationwide Children's Hospital, and The Ohio State University, Columbus, USA

748 PediaTrac: The Development and Validation of a Web-Based Tool to Measure and Track Infant and Toddler Development from Birth Through 18 Months

Renée Lajiness-O'Neill^{1,2}, Alissa Huth-Bocks³, H. Gerry Taylor⁴, Seth Warschausky²

¹Eastern Michigan University, Ypsilanti, MI, USA. ²Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA. ³Rainbow Babies & Children's Hospital, Case Western Reserve University School of Medicine, Cleveland, OH, USA. ⁴Nationwide Children's Hospital, and The Ohio State University, Columbus, OH, USA

763 Development and Validation of the Newborn Sensorimotor Domain of PediaTrac v3.0, a Web-Based Tool to Measure and Track Infant and Toddler Development using Item Response Theory

Seth Warschausky¹, Trivellore Raghunathan², Patricia Berglund², Alissa Huth-Bocks³, H. Gerry Taylor⁴, Renée Lajiness-O'Neill^{5,1}

¹Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA. ²Institute for Social Research, University of Michigan, Ann Arbor, MI, USA. ³Rainbow Babies & Children's Hospital, Case Western Reserve University School of Medicine, Cleveland, OH, USA. ⁴Nationwide Children's Hospital, and The Ohio State University, Columbus, OH, USA. ⁵Department of Psychology, Eastern Michigan University, Ypsilanti, MI, USA

772 Preliminary Psychometrics of a Novel Measure of Early Relational Health: Relationships with Sociodemographic Characteristics

Amanda Hicks¹, Natasha Lang¹, Renée Lajiness-O'Neill^{1,2}, Alissa Huth-Bocks³, Angela D Staples¹

¹Eastern Michigan University, Ypsilanti, MI, USA. ²Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA. ³Rainbow Babies & Children's Hospital, Case Western Reserve University School of Medicine, Cleveland, OH, USA

778 Longitudinal Sociodemographic Predictors of Infant Development: A PediaTrac Study

Jennifer Cano¹, Jazmine Kirkland², Renée Lajiness-O'Neill^{1,3}, Trivellore Raghunathan⁴, Angela D Staples¹, Alissa Huth-Bocks²

¹Eastern Michigan University, Ypsilanti, MI, USA. ²Rainbow Babies & Children's Hospital, Case Western Reserve University School of Medicine, Cleveland, OH, USA. ³Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA. ⁴Institute for Social Research, University of Michigan, Ann Arbor, MI, USA

986 Discussion: PediaTrac as a contribution to the field of "infant neuropsychology"

H. Gerry Taylor

Abigail Wexner Research Institute at Nationwide Children's Hospital, Columbus, OH, USA. The Ohio State University, Columbus, OH, USA

Paper Session 10: Epilepsy

1:00 - 2:25pm Thursday, 3rd February, 2022

1 Impact of Social Determinants of Health on Access to Epilepsy Care at a Large Veterans Hospital

Yosefa A Modiano¹, Cemal Karakas², Zulfi Haneef^{1,3}

¹Michael E. DeBakey VA Medical Center, Houston, TX, USA. ²University of Louisville, Louisville, KY, USA. ³Baylor College of Medicine, Houston, TX, USA

2 The Effects of Focal Cortical Dysplasia on General Intelligence and Cognitive Function in Children with Refractory Epilepsy

Lauren M Goedde^{1,2}, Kelly J Peterson^{1,2}, Nahal D Heydari², Marla J Hamberger²

¹Barnard College, New York, New York, USA. ²Columbia University Irving Medical Center, New York, New York, USA

3 Elevated Clinical Conditions, Psychiatric Comorbidities, and Suicidality Present in Women Veterans with PNES versus Epilepsy

Erin Sullivan-Baca¹, Yosefa A Modiano¹, Brian I Miller¹, Zulfi Haneef^{1,2}

¹Michael E. DeBakey VA Medical Center, Houston, Texas, USA. ²Baylor College of Medicine, Houston, Texas, USA

4 Neuropsychological Phenotypes in Pediatric Frontal Lobe Epilepsy

William A Schraegle^{1,2}, Jenna A Chiang^{1,2}, Julia M Guerin^{1,2}, Rosario C DeLeon^{1,2}, Jeffrey B Titus^{1,2}

¹Division of Neuropsychology, Department of Neurology, Dell Medical School, The University of Texas at Austin, Austin, TX, USA. ²Comprehensive Pediatric Epilepsy Center, Dell Children's Medical Center, Austin, TX, USA

5 Can Bilingualism Increase Neuroplasticity of Language Networks in Epilepsy?

Alena Stasencko, Adam Schadler, Erik Kaestner, Anny Reyes, Carrie R McDonald

UCSD, San Diego, CA, USA

Paper Session 11: Dementia 2

1:00 - 2:25pm Thursday, 3rd February, 2022

1 Partial Least Squares Regression Analysis of Alzheimer's Disease Biomarkers, Modifiable Health Variables, and Longitudinal Cognition in Older Adults with Mild Cognitive Impairment

Jessica H. Stark, Kelly J. Hiersche, Alexander N. Hasselbach, Jasmeet P. Hayes, Scott M. Hayes

The Ohio State University, Columbus, OH, USA

2 Monthly At-home Computerized Testing to Detect Cognitive Change in Preclinical Alzheimer's Disease

Roos J Jutten¹, Dorene M Rentz^{1,2}, Rebecca E Amariglio^{1,2}, Rachel F Buckley^{1,3}, Michael J Properzi¹, Paul Maruff^{4,5}, Michael Yassa⁶, Craig E Stark⁶, Keith A Johnson¹, Reisa A Sperling^{1,2}, Kathryn V Papp^{1,2}

¹Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA. ²Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA. ³University of Melbourne, Melbourne, VIC, Australia. ⁴Cogstate Ltd., Melbourne, VIC, Australia. ⁵The Florey Institute of Neuroscience and Mental Health, Melbourne, VIC, Australia.

⁶University of California, Irvine, CA, USA

3 Normed Versus Raw Hippocampal and Entorhinal Volumes as Predictors of Memory Performance

Arabella A Johnson, Brianna Raskin, Howard J Aizenstein, Akiko Mizuno, Andrea M Weinstein

University of Pittsburgh, Pittsburgh, Pennsylvania, USA

4 Predicting Time to Loss of Independence in Alzheimer's Disease

Jessica H Helphrey, Hudaisa Fatima, Allison Parker, Anthony Longoria, Michael Conley, Jeffrey Schaffert, John Hart, Hsueh-Sheng Chiang, C. Munro Cullum, Christian LoBue

UT Southwestern Medical Center, Dallas, TX, USA

5 Serum Brain Derived Neurotrophic Factor Interacts with Diabetes Status to Influence Memory and Hippocampal Volume in Older Adults

Einat K Brenner¹, Alexandra J Weigand², Kelsey R Thomas^{1,3}, Emily C Edmonds^{1,3}, Mark W Bondi^{1,3}, Katherine J Bangen^{1,3}

¹University of California San Diego, La Jolla, CA, USA. ²San Diego State University/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³VA San Diego Healthcare System, San Diego, CA, USA

6 Aspects of Social Relationships as Moderators of the Relationship Between Subjective Cognitive Decline and Cognition

Stella M Garriga¹, Silvia Chapman¹, Christopher Gonzalez², Megan S Barker¹, Jennifer J Manly¹, Adam M Brickman¹, Richard P Mayeux¹, Stephanie Cosentino¹

¹Columbia University Irving Medical Center, New York, NY, USA. ²Illinois Institute of Technology, Chicago, IL, USA

Mid Career Award Presentation -- Carrie McDonald --Imaging Brain Networks in Epilepsy: Determining the Neural Basis of Cognitive and Clinical Co-morbidities

1:00 - 2:25pm Thursday, 3rd February, 2022



Carrie McDonald

Imaging Brain Networks in Epilepsy:

Determining the Neural Basis of Cognitive and Clinical Co-morbidities

Over the past decade, the conceptualization of epilepsy as a network disorder has revolutionized our approach to the study of seizures, as well as psychiatric and cognitive co-morbidities in epilepsy. Brain imaging has been at the forefront of this movement, shifting the focus from one of identifying epileptic lesions to one defining epileptogenic networks. In parallel, the study of cognitive impairments in epilepsy has shifted from the study of isolated cognitive impairments within epilepsy syndromes (e.g., memory impairments in temporal lobe epilepsy; TLE) to one that emphasizes cognitive and psychiatric profiles within and across epilepsy syndromes—or cognitive phenotyping. In this talk, Dr. McDonald will describe a 15- year NIH-funded program of research using advanced, quantitative structural, functional, and diffusion imaging to characterize the neural substrates underlying cognitive co-morbidities in patients with epilepsy. Her talk will highlight network abnormalities associated with cognitive phenotypes in TLE and describe how these patterns may be useful for identifying patients at risk for progressive cognitive decline. She will also describe network features that predict individualized risk for cognitive decline following epilepsy surgery, as well as possible mechanisms of cognitive reserve. Finally, Dr. McDonald will review the need to consider how patient-specific risk and resilience factors, including bilingualism, can influence brain and neuropsychological profiles and could modify risk for post-operative cognitive decline. Future efforts discussed will include the need to harmonize neuropsychological approaches to cognitive phenotyping for deployment in large-scale, international studies. Such global efforts are essential to determine the reproducibility and generalizability of the current findings, accelerate scientific discoveries, and advance personalized medicine in epilepsy.

Poster Session 08: Cultural | Imaging

1:00 - 2:00pm Thursday, 3rd February, 2022

01 TAM Battery: Development and Validation of a Comprehensive Computer- Assisted Test Battery for Testing Cognition of Tamil Speaking Older Adults in India.

Porrselvi A P

Unified Brain Health Care, Chennai, Tamil Nadu, India

02 The Effect of Acculturation on The Cordoba Naming Test in Guatemalans

Isabel C Munoz¹, Abril J Baez², Daniel W Lopez-Hernandez¹, Bethany A Nordberg¹, Selina Mangassarian¹, Sarah Saravia², Raymundo Cervantes¹, Winter Olmos¹, Mariam Gomez³, Santiago Espinoza³, Sarah Fatoorechi¹, Enrique Lopez¹, Pavel Y Litvin¹, Matthew J Wright¹, David J Hardy⁴, Alberto L Fernandez⁵

¹The Lundquist Institute, Torrance, CA, USA. ²California State University, Fresno, Fresno, CA, USA. ³Tecnológico de Monterrey, Monterrey, Nuevo León, Mexico. ⁴Loyola Marymount University, Los Angeles, CA, USA. ⁵Universidad Nacional de Córdoba, Córdoba, Córdoba, Argentina

03 Generating and Testing Neuropsychological Test Norms That are Fair, Reliable and Accurate in a Low- and Middle-income Country.

Hetta Gouse^{1,2}, Kevin G.F. Thomas¹, Jane C. Masson¹, Michelle Henry¹, John A. Joska^{1,2}, Lucette Cysique³, Simin Ling⁴, Elaine Ye^{4,5}, Jun Liu^{6,7,4}, Reuben N. Robbins^{6,7,4}

¹University of Cape Town, Cape Town, South Africa. ²Neurosciences Institute, Cape Town, South Africa. ³University of New South Wales, Sydney, Australia. ⁴Columbia University, New York, USA. ⁵Smith College, Massachusetts, USA. ⁶HIV Center for Clinical and Behavioral Science, New York, USA. ⁷New York State psychiatric Institute, New York, USA

04 Demographic Characteristics of the Saint Louis University Mental Status Examination (SLUMS) in a Large Veteran Clinical Sample

Christopher Anzalone¹, Jessica Nicholson², Patricia Peruggia³, Trevor Buckley³, Brandon Roberg³

¹University of South Carolina, Columbia, SC, USA. ²Memphis VAMC, Memphis, TN, USA. ³Columbia VA Healthcare System, Columbia, SC, USA

05 Education Level and Performance on the Saint Louis University Mental Status Examination (SLUMS) in a Large Veteran Clinical Sample

Christopher Anzalone¹, Jessica Nicholson², Patricia Peruggia³, Trevor Buckley³, Brandon Roberg³

¹University of South Carolina, Columbia, SC, USA. ²Memphis VAMC, Memphis, TN, USA. ³Columbia VA Healthcare System, Columbia, SC, USA

06 Inhibition and Autobiographical Memory Among a Sample of Bilingual and Monolingual Hispanics

Mónica C Acevedo-Molina, Sonia Griego, Jack-Morgan Mizell, Matthew D Grilli

University of Arizona, Tucson, AZ, USA

07 Physical Activity and Vitamin B12 in Relation to Plasma Markers of Neurodegeneration in Cognitively Normal Older Adult Mexican Americans: A HABS-HD Study

Jermon A Drake^{1,2}, Kirk I Erickson^{1,2,3}, Luis D Medina⁴

¹University of Pittsburgh, Department of Psychology, Pittsburgh, PA, USA. ²Carnegie Mellon University, Center for Neural Basis of Cognition, Pittsburgh, PA, USA. ³Murdoch University, College of Science, Health, Engineering, and Education, Perth, WA, Australia. ⁴University of Houston, Department of Psychology, Houston, TX, USA

08 Racial Bias in AD prevention: Disparities in Cognitive Scores among Racial Groups

Xinran Wang, Steven D Edland, Sarah J Banks, Kacie D Deters

UC San Diego, La Jolla, CA, USA

09 Spanish Translation and Validation of the Medication Management Ability Assessment: A Teleassessment Study

Joshua M Garcia, Yenifer L Morales Mejia, Andrea P Ochoa Lopez, Steven P Woods, Helen Valier, Luis D Medina

University of Houston, Houston, Texas, USA

10 Examination of the Cordoba Naming Test Across Different Latinx Spanish Speaking Adult Population

Bethany A Nordberg¹, Daniel W Lopez-Hernandez¹, Raymundo Cervantes¹, Isabel D Munoz¹, Krissy E Smith¹, Sarah Saravia¹, Adriana Cuello², Yvette De Jesus³, Chelsea McElwee⁴, Alexis Bueno¹, Diana Palacios⁵, Tara L Victor⁶, Enrique Lopez¹, Pavel Y Litvin¹, Matthew J Wright¹, David J Hardy⁷, Alberto L Fernandez⁸

¹The Lundquist Institute, Carson, CA, USA. ²Tecnológico de Monterrey, Monterrey, Nuevo León, Mexico. ³California State University Fresno, Fresno, California, USA. ⁴California State University Dominguez Hills, Carson, California, USA. ⁵Universidad Nacional Autónoma de México, Mexico City, Mexico. ⁶CSU Dominguez Hills, Carson, CA, USA. ⁷Loyola Marymount University, Los Angeles, CA, USA. ⁸Universidad Católica de Córdoba, Córdoba, Argentina

11 Cognitive Interviewing for Cognitive Tests: Developing a Novel Approach to Adapt Neuropsychological Tests Across Cultures

Daphne Tsapalas¹, Maral Aghvinian², Dana Watnick³, Anthony Santoro¹, Christopher Ferraris¹, Nana Asiedu¹, Nina Steenkamp⁴, Nicole Phillips⁴, Joy L Gumikiriza-Onoria⁵, Hetta Gouse⁴, Reuben N Robbins¹

¹HIV Center for Clinical and Behavioral Studies, Columbia University and New York State Psychiatric Institute, New York City, NY, USA. ²Fordham University, New York City, NY, USA. ³Albert Einstein College of Medicine, New York City, NY, USA. ⁴Neurosciences Institute Department of Psychiatry & Mental Health, Cape Town, South Africa. ⁵Makerere University College of Health Sciences, School of Medicine, Department of Psychiatry, Kampala, Uganda

12 Assessing Acceptability of Tablet-Based Neuropsychological Tests Cross-Culturally in South Africa and the United States

Stella Biehl¹, Christopher Ferraris², Nana Asiedu², Daphne Tsapalas², Anthony Santoro², Hetta Gouse³, John A Joska³, Susan Morgello⁴, Desiree Byrd^{5,6,7}, Reuben N Robbins²

¹Colorado College, Colorado Springs, CO, USA. ²HIV Center for Clinical and Behavioral Studies at New York State Psychiatric Institute and Columbia University, New York City, NY, USA. ³University of Cape Town, Cape Town, South Africa. ⁴Icahn School of Medicine, New York City, NY, USA. ⁵Mount Sinai, New York City, NY, USA. ⁶Queens College, New York City, NY, USA. ⁷The Graduate Center, CUNY, New York City, NY, USA

13 Research Engagement Recommendations for Neuropsychological Dementia Disparities Studies in South Asian Immigrant Elders

Sandra A Kennedy^{1,2}, Alice Gavarette Olvera^{1,2}, Ahnaf Annur², Shana S Samuel^{1,2}, Christopher Rincon^{1,2}, Ashley Torres², Monica Rivera-Mindt³, Desiree Byrd²

¹The Graduate Center, CUNY, New York, NY, USA. ²Queens College, CUNY, Flushing, NY, USA. ³Fordham University, Bronx, NY, USA

14 The Role of Chronic Stress, Interleukin-6, and C-Reactive Protein on Cognition: A HABS-HD Study

Michelle Nicole Martinez, Joshua M Garcia, Andrea P Ochoa, Luis D Medina

University of Houston, Houston, TX, USA

15 Where Education is Attained in Ethnically Diverse Immigrants Affects Neuropsychological Test Performance

Kayla S Gorenstein, Jill Razani

California State University Northridge, Northridge, CA, USA

16 Multicultural and Multidisciplinary Considerations in the Identification of Psychogenic Nonepileptic Seizures: A Case Report

Jesús O Barreto Abrams^{1,2}, Diomaris E. Safi^{1,2}

¹Department of Psychiatry and Behavioral Sciences, UCLA, Los Angeles, CA, USA. ²UCLA Hispanic Neuropsychiatric Center of Excellence, Los Angeles, CA, USA

17 Adolescents and Youth Mental Health During the COVID-19 Pandemic: The Intersectionality of Race and Gender

Nara Côrtes Andrade^{1,2}, Flavia Leal Ozaki³, Maria de Fátima Dórea³, Thiago Manguiera Marcos³, Eric Cairo⁴, Luiza Abdalla Muricy³, Victória Praseres⁵

¹Juiz de Fora Federal University, Juiz de Fora, Minas Gerais, Brazil. ²Harvard University, Boston, MA, USA. ³Bahiana School of Medicine and Public Health (EBMSP), Salvador, Bahia, Brazil. ⁴Catholic University of Salvador (UCSAL), Salvador, Bahia, Brazil. ⁵Federal University of Bahia, Salvador, Bahia, Brazil

18 Sociocultural Variables and Neuropsychological Test Performance among Chinese and Chinese Americans

Iris Yi Miao¹, Doris Chang²

¹The New School, New York, NY, USA. ²New York University, New York, NY, USA

19 Adapting The Montreal Cognitive Assessment (MoCA) For Use With Deaf Older Adults Who Sign In A Clinical Setting: A Multicase Study

Lawrence H Pick¹, Lynn A Schaefer²

¹Gallaudet University, Washington, DC, USA. ²Nassau University Medical Center, East Meadow, NY, USA

20 The Association Between Vigilance and Memory

Camryn S. Dixon¹, Justina F. Avila-Reiger², Miguel Arce Rentería², Indira C. Turney², Jet M.J. Vonk², Patrick J. Lao², Dominika Seblova², Judes Fleurimont³, Michelle N. Martinez⁴, Adam M. Brickman², Jennifer J. Manly²

¹Harvard University, Cambridge, MA, USA. ²Columbia University, New York, NY, USA. ³University of Illinois Chicago, Chicago, Illinois, USA. ⁴University of Houston, Houston, Texas, USA

21 A culturally-informed neuropsychological assessment: An illustrative case study of a Vietnamese patient with Dementia with Lewy Bodies

BaoChan Tran¹, Ann T Nguyen^{2,3}, Caroline Ba⁴, Lindsay Vo⁵, Lauren Mai⁶, Christopher M Nguyen⁷

¹University of Pennsylvania, Philadelphia, PA, USA. ²VA Northern California Health Care System, Sacramento, CA, USA. ³UC Davis Medical Center, Sacramento, CA, USA. ⁴Virginia Hospital Center, Arlington, VA, USA. ⁵Burrell Behavioral Health, Springfield, MO, USA. ⁶University of California, San Francisco, CA, USA. ⁷The Ohio State University Wexner Medical Center, Columbus, OH, USA

22 The Wechsler Adult Intelligence Scale, Fourth-Edition, Greek Adaptation (WAIS-IV GR): Normative Data for Elderly Greek Australians

Mathew Staiois¹, Rene Stolwyk¹, Mary H Kosmidis², Evrim March¹, Nikolaos Kokkinis²

¹Monash University, Melbourne, Victoria, Australia. ²Aristotle University of Thessaloniki, Thessaloniki, Greece

23 Major Experiences of Discrimination and Acculturation Predict Neuropsychological Test Performance in Hispanic/Latinx Young Adults

Nazareth Ortega¹, Carolyn Pagan², Lizeth Sotelo¹, Jill Razani¹

¹California State University, Northridge, Northridge, CA, USA. ²Washington State University, Pullman, WA, USA

24 MMSE, MOCA, and Depression in an Elderly Chinese Speaking Population

Li Ting Eileen Ng, Fuyu Yang, Irene W Liem, Benjamin Pyykkonen

Wheaton College, Wheaton, IL, USA

25 Cultural and Linguistic Considerations for Presurgical Assessments in Candidates for Epilepsy Surgery Immigrating from China

Iris Yi Miao¹, Heidi A. Bender², Amanda Sacks-Zimmerman², Jessica S. Spat-Lemus²

¹The New School, New York, NY, USA. ²Department of Neurological Surgery, New York Presbyterian-Weill Cornell Medicine, New York, NY, USA

26 Neuropsychological Assessment with a Linguistically Diverse Population in United States: A Qualitative Study

Shafaq Javaid

Adler University, Chicago, IL, USA

27 Examining the Impact of Perceived Discrimination and Social Support on Executive Functioning

Sarah Prieto¹, Jasmeet P Hayes^{1,2}

¹Department of Psychology, The Ohio State University, Columbus, OH, USA. ²Chronic Brain Injury Initiative, The Ohio State University, Columbus, OH, USA

28 Alzheimer's Disease Plasma Biomarkers Are Not Associated with Subjective Cognitive Decline in a Mexican American Sample: A HABS-HD Study

Alicia M Camuy¹, Mirna L Arroyo-Miranda², Joshua M. Garcia², Luis D. Medina²

¹Trinity College, Hartford, CT, USA. ²University of Houston, Houston, TX, USA

29 The Association Between Aggregate Vascular Risk, Healthcare Access and Utilization, and Cognition Among a Nationally Representative Sample of Older Adults

Amanda T Calcetas¹, Katherine J Bangen^{1,2}, Emily C Edmonds^{1,2}, Sophia L Holmqvist², Lauren Edwards³, Maria Bordyug¹, Kayla Walker⁴, Travis M Scott^{5,6}, Alexandra L Clark⁷, Alexandra J Weigand³, Michelle R Madore^{5,6}, Kelsey R Thomas^{1,2}

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30 Lifetime dietary habits contribute to cognitive status in community-dwelling Latin American older adults

Aileen Brambila-Soltero¹, Esteban Montenegro-Montenegro², Abigail Kramer², Deborah Cahn-Weiner², Monica Salazar Villanea³, David Johnson²

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31 Neuropsychological Functioning in Older American Indians of the Southwestern U.S.

Brittany Cerbone¹, Krista D. Hanson¹, Vicky T. Lomay², Meredith Wicklund³, David Weidman⁴

¹Barrow Neurological Institute, Phoenix, Arizona, USA. ²Tsinajini Psychology Services, PLLC, Mesa, Arizona, USA. ³Mayo Clinic, Phoenix, Arizona, USA. ⁴Banner Health, Phoenix, Arizona, USA

32 Are experiences of discrimination related to linguistic metrics of naturalistic speech in middle-aged adults without dementia?

Katherinne M Rabanal¹, Justina F Avila¹, Miguel Arce Rentería¹, Rachel Ostrand², Katherine Chia^{3,2}, John Gunstad⁴, Jennifer J Manly¹, Adam M Brickman¹, Jet M Vonk¹

¹Columbia University, NY, NY, USA. ²IBM Research, Yorktown Heights, NY, USA. ³Florida State University, Tallahassee, Florida, USA. ⁴Dept of Psychological Sciences, Kent State University, Kent, Ohio, USA

33 The Influence of Socioeconomic Status on Parent-Reported Working Memory in Pediatric Cancer Survivors

Viannae Carmona^{1,2}, Melissa C Balderrama^{1,3}, Sharon H O'Neil^{4,5,3}

¹Children's Hospital Los Angeles - Cancer and Blood Disease Institute, Los Angeles, CA, USA. ²California Lutheran University, Thousand Oaks, CA, USA. ³USC Keck School of Medicine, Los Angeles, CA, USA. ⁴Children's Hospital Los Angeles - Division of Neurology, Los Angeles, CA, USA. ⁵The Saban Research Institute, Los Angeles, CA, USA

34 Generation Y and Z Perceived Workloads on the Cordoba Naming Test

Krissy E. Smith E Smith^{1,2}, Isabel D Munoz^{1,3}, Bethany A Nordberg¹, Alexis Bueno¹, Raymundo Cervantes^{1,2}, Sarah Saravia^{1,4}, Carolina Garza Castañeda⁵, Alejandra Odette Romero Navarrete⁶, Selina Mangassarian¹, Sarah Fatoorechi¹, Enrique Lopez¹, Pavel Y Litvin¹, Rachel A Rugh-Fraser¹, Tara L Victor², Matthew J Wright¹, David J Hardy⁷, Daniel W Lopez Hernandez¹, Alberto L Fernandez⁸

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⁸The National University of Córdoba, Córdoba, Córdoba, Argentina

35 Adolescents' Brain Response to Emotionally Salient Information is Associated with Distress Tolerance at Two-Year Follow-Up

Amanda C. Del Giacco, Scott A. Jones, Bonnie J. Nagel

Oregon Health and Science University, Portland, OR, USA

36 Default Mode Network Synchrony Across Satiation and Cessation in Opioid Use: a Functional Neuroimaging Study

Jade Dandurand¹, Michael Stein^{2,3}, Britni Surprenant¹, Heidi Sarles-Whittlesey¹, Kristen Grimone², Debra Herman², Ana Abrantes², Lawrence Sweet¹

¹University of Georgia Department of Psychology, Athens, GA, USA. ²Behavioral Medicine and Addiction Research, Brown University/Butler Hospital, Providence, RI, USA. ³Boston University School of Public Health, Boston, MA, USA

37 The Impact of Mindfulness-Based Interventions On Brain Functional and Structural Connectivity: A Systematic Review

Michelle Melis^{1,2,3}, Juliette Pollefeyt⁴, Filip Raes^{4,3}, Ann Smeets^{5,6,7}, Stefan Sunaert^{1,8}, Sabine Deprez¹, Katleen Van der Gucht^{3,4}

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38 Within-Individual Neural Variability in the N-back Task and its Associations with Neuropsychological Measures of Vigilance and Working Memory

Stephanie N. Steinberg¹, Jeffrey G. Malins¹, Jingyu Liu^{1,2}, Tricia Z. King¹

¹Georgia State University, Atlanta, Georgia, USA. ²Center for Translational Research in Neuroimaging and Data Science (TREND), Atlanta, Georgia, USA

39 Investigating Tau Pathology in Gray Matter Regions via Diffusion MRI

Destiny S Wright, Bryan Chen, Ashley Mensing, Yunglin Gazes

Columbia University Medical Center, New York, NY, USA

40 The Relationship Between Within-Individual Neural Variability During the N-Back Task and Neuropsychological Measures of Processing Speed

Jordan E Pincus¹, Stephanie N Steinberg¹, Jeffrey G Malins¹, Jingyu Liu^{1,2}, Tricia Z King¹

¹Georgia State University, Atlanta, GA, USA. ²TReNDS Center, Atlanta, GA, USA

41 Physical Activity Moderates the Association Between Executive Function and Anti-Correlated Networks in the Aging Brain

Marissa A Gogniat, Talia L Robinson, Kharine R Jean, L Stephen Miller

University of Georgia, Athens, GA, USA

42 Association of Cortical Microstructure with Cognitive Performance Among Cognitively Unimpaired Adults

Jeremy A Elman¹, Donald J Hagler Jr.¹, Olivia K Puckett¹, Rahul C Pearce¹, Christine Fennema-Notestine¹, Michael J Lyons², Linda K McEvoy¹, Matthew S Panizzon¹, Emilie T Reas¹, McKenna E Williams¹, Anders M Dale¹, Carol E Franz¹, William S Kremen¹

¹University of California San Diego, La Jolla, CA, USA. ²Boston University, Boston, MA, USA

43 Attention and Anterior Cingulate Volume in Veterans with Suicidal Behavior

Erin C McGlade^{1,2,3}, Margaret Legarreta^{1,2,3}, Deborah Yurgelun-Todd^{1,2,3}

¹University of Utah School of Medicine, Salt Lake City, UT, USA. ²Huntsman Mental Health Institute, Salt Lake City, UT, USA. ³VASLC MIRECC, Salt Lake City, UT, USA

44 Associations Between Abnormalities of Intracortical Myelin Content and Neuropsychological Functions in Middle to Older Aged Adults with Autism Spectrum Disorder (ASD)

Jiwandeep S Kohli^{1,2}, Ian A Martinadale¹, Molly Wilkinson^{1,2}, Kalekirstos Alemu¹, Mikaela K Kinnear¹, Ralph-Axel Müller¹, Ruth A Carper¹

¹Brain Development Imaging Laboratories, Department of Psychology, San Diego State University, San Diego, CA, USA. ²San Diego State University/University of California, San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA

45 Fractional Anisotropy of the Fornix Mediates the Relation Between APOE4 and Memory Performance in a Sample of Majority White Older Adults with Subjective or Objective Cognitive Impairment

Khari R. Jean, Marissa A Gogniat, Talia L Robinson, L. Stephen Miller

University of Georgia, Athens, GA, USA

46 The Association Between Aerobic Fitness Level, Sex, and Network Connectivity in the Default Mode Network in Healthy Emerging Adults

Kaitlynne N. Leclaire, Julia C. Harris, Alexander L. Wallace, Michael Esson, Krista M. Lisdahl

University of Wisconsin-Milwaukee, Milwaukee, WI, USA

47 Incidental Finding? A Case Study of 53-Year-Old Man with Obstructive Hydrocephalus Secondary to Congenital Toxoplasmosis

Rebecca Kraut, M.A.¹, Erica F. Weiss, Ph.D.², Judah Burns, M.D.³, Ronda Facchini, Ph.D.²

¹Yeshiva University, Bronx, NY, USA. ²Division of Neuropsychology, Department of Neurology, Albert Einstein College of Medicine, Montefiore Medical Center, Bronx, NY, USA. ³Montefiore Medical Center, Bronx, NY, USA

48 Auditory and Verbal Fluency Tasks for fMRI Language Mapping in Pediatric Neurosurgical Patients

Carla Ammons¹, Binjian Sun², Richard Jones², Kartik Reddy^{2,3}, Kim Ono^{1,3}, Donald Bearden^{1,3}

¹Children's Healthcare of Atlanta Department of Neuropsychology, Atlanta, Georgia, USA. ²Children's Healthcare of Atlanta Department of Radiology, Atlanta, Georgia, USA. ³Emory University School of Medicine, Atlanta, Georgia, USA

49 Cerebral Metabolite Concentrations are Associated with Brain Functional Connectivity in Patients with Mild Cognitive Impairment

Alexandria G O'Neal¹, Sarah M Olshan^{1,2}, Aidan J Murphy³, Sarah B Bottari¹, Erin R Trifilio¹, Ronald A Cohen¹, Eric S Porges¹, Damon G Lamb¹, Steven T DeKosky¹, John B Williamson¹

¹University of Florida, Gainesville, Florida, USA. ²University of Illinois Urbana-Champaign, Champaign, Illinois, USA. ³Harvard University, Cambridge, Massachusetts, USA

50 Comparisons of Tau PET Binding in a Young Middle-Aged Population with and without Neurodegeneration

Jenna R Groh¹, Ron Killiany¹, Kimberly Sullivan²

¹Boston University School of Medicine, Boston, Massachusetts, USA. ²Boston University School of Public Health, Boston, Massachusetts, USA

51 Trends and Challenges in Diagnostic Prediction Modeling and Network Neuroscience

Andrew P Cwiek, Emily C Grossner, Frank G Hillary

The Pennsylvania State University, University Park, Pennsylvania, USA

52 Neural Correlates of Memory Formation in Term and Preterm Born Young Children

Christina Lee¹, Kelsey Canada¹, Dana McCall¹, Da'Jonae Foster¹, Jamie Piercy¹, Lingfei Tang¹, Sarah Raz^{1,2}, Noa Ofen^{1,2,3}

¹Wayne State University, Detroit, USA. ²Merrill Palmer Skillman Institute, Detroit, USA. ³Institute of Gerontology, Detroit, USA

53 Differential Executive Functioning in Young Adulthood as a Function of Experienced Child Abuse

Christopher A Mark¹, Dmitri V Poltavski², Thomas Petros², Alan King²

¹Salem State University, Salem, MA, USA. ²University of North Dakota, Grand Forks, ND, USA

54 The Relationship Between Experimentally-Induced Stress and Performance Monitoring: A Go/No-go Event-Related Potential (ERP) Study

Whitney D. Allen¹, Rebekah E Rodeback², Kaylie A Carbine³, Ariana Hedges-Muncy¹, James D LeCheminant¹, Michael J Larson¹

¹Brigham Young University, Provo, UT, USA. ²University of California Irvine, Irvine, California, USA. ³California State University Dominguez Hills, Carson, California, USA

55 Investigating the Relationship Between Physiological and Self-Report Measures of Mental Effort During Cognitive Demand

Jasmin E. Guevara, Julia V. Vehar, Allie R. Geiger, Matthew J. Euler

University of Utah, Salt Lake City, Utah, USA

56 Sensitivity of the EEG Aperiodic Slope and Offset to Age and Task Demand During Neuropsychological Task Performance

Julia Vehar¹, Jasmin Guevara¹, Anupriya Pathania¹, Mindie Clark¹, Allie Geiger¹, Keith Lohse², Matthew Euler¹

¹University of Utah, Salt Lake City, Utah, USA. ²Washington University School of Medicine in St. Louis, St. Louis, Missouri, USA

57 Alexithymia-Related Overactivation in Healthy Elders Suggests Attentional Bias to Expected Feedback During Non-Emotive Reinforcement Learning

Elizabeth R Paitel, Erik M O'Reilly, Kristy A Nielson

Marquette University, Milwaukee, WI, USA

58 Imaginative Elaboration in Agenesis of the Corpus Callosum: Topic Modeling and Perplexity

Matthew Hoard¹, Lynn K Paul², Anne A.T. Nolt¹, Warren S. Brown¹

¹Fuller Graduate School of Psychology, Pasadena, California, USA. ²California Institute of Technology, Pasadena, California, USA

59 Social Cognition and Emotional Assessment: Development of Culturally Adapted Norms for Latin America

Maria Florencia Clarens¹, Lucía Crivelli¹, María Eugenia Martín¹, Carlos Martínez Canyazo¹, Micaela Arruabarena¹, María Eugenia Tabernero¹, Cecilia Cervino¹, Yanina Varela¹, Romina Prestupa², Lucrecia Pereyra², Francina Rossi², Diego Ruben Sarasola², Ricardo Francisco Allegri¹

¹Fleni, Buenos Aires, Argentina. ²Instituto de Neurociencias Alexander Luria, Buenos Aires, Argentina

5 min. break

2:25 - 2:30pm Thursday, 3rd February, 2022

***LIVE* Introduction to Special Interest Groups (SIGS)**

2:30 - 2:55pm Thursday, 3rd February, 2022

Presented by SIG Chair, Ruchika Prakash

Cultural

Brain Injury

Epilepsy

Social Cognition, Emotion and Communication (SEC)

TeleNeuropsychology

International Neuropsychology Data Network (INDN)

Dementia

Oncology

NeuroCovid

Rehabilitation

Babies, Infants, Toddlers and Young Children (BITSY)

5 min. break

2:55 - 3:00pm Thursday, 3rd February, 2022

Plenary C: Relationship Between the Gut Microbiome and Cognitive Decline --- Presenter: Naoki Saji *LIVE Q+A*

3:00 - 3:55pm Thursday, 3rd February, 2022



Naoki Saji, MD, PhD

Vice Director of the Center for Comprehensive Care

and Research on Memory Disorders

National Center for Geriatrics and Gerontology

Japan

Plenary C: Relationship Between the Gut Microbiome and Cognitive Decline

Instructional Level: Introductory

Abstract & Learning Objectives:

The number of patients with dementia in Japan is increasing. Therefore, a comprehensive strategy for dementia research has been introduced in Japan to improve the healthcare system. Recently, associations between the gut microbiome and cognitive decline have received increasing attention, because the analysis of such associations may reveal the mechanisms underlying the onset of dementia. We enrolled outpatients visiting our memory clinic. We collected patient demographics, risk factors, activities of daily living, cognitive function, and brain imaging data. The gut microbiome was assessed using terminal restriction fragment length polymorphism analysis. The concentrations of metabolites were significantly different between patients with and those without dementia. Their diet patterns were also associated with dementia. These findings support the presence of the gut-microbiome-brain axis. Further studies are warranted to clarify the mechanism underlying this relationship.

Upon conclusion of this course, learners will be able to:

- Summarize basic information regarding dementia in Japan
- Summarize the information of the clinical research regarding gut microbiome
- Recognize the association between the gut microbiome and cognitive decline

Speaker Biography:

Dr. Naoki Saji is a neurologist and a gerontologist, and currently Vice Director in the Center for Comprehensive Care and Research on Memory Disorders, National Center for Geriatrics and Gerontology, Japan. He received a Ph.D. in the geriatric medicine and internal medicine from the Kobe University Graduate School of Medicine, Japan under the supervision of Prof. Koichi Yokono. After receiving his doctorate, he studied stroke medicine and worked as a Lecturer and an Associate Professor in the Department of Stroke Medicine, Kawasaki Medical School, Japan. Dr. Saji studies the interrelationship between cerebrovascular diseases and cognitive dysfunction. His research interests include the common risk factors for stroke and dementia such as arterial stiffness, atrial fibrillation, cerebral small vessel diseases, and gut microbiome.

Live Program Close

3:55 - 4:00pm Thursday, 3rd February, 2022

Symposium 06: Highlighted SIG: Neuropsychological Test Translation, Adaptation, and Development:Lessons learned from Africa, Australia, Europe, South America, and South Asia

4:00 - 5:30pm Thursday, 3rd February, 2022

22 Neuropsychological Test Translation, Adaptation, and Development:Lessons learned from Africa, Australia, Europe, South America, and South Asia

Chair

Tedd Judd

Universidad del Valle de Guatemala, Guatemala City, Guatemala

Discussant

Lingani Mbakile-Mahlanza

University of Botswana, Gaborone, Botswana

991 Introduction - Symposium 06: Neuropsychological Test Translation, Adaptation, and Development: Lessons learned from Africa, Australia, Europe, South America, and South Asia

Tedd Judd

Universidad del Valle de Guatemala, Guatemala City, Guatemala

638 Lessons Learned through the Development of the African Neuropsychology Battery (ANB)

Jean N Ikanga¹, Samuel S Mampunza², Anthony Stringer¹

¹Emory University, Atlanta, GA, USA. ²University of Kinshasa, Kinshasa, Congo, the Democratic Republic of the

639 Cross-cultural adaptation of the Dutch Oxford Cognitive Screen (OCS-NL) for use in the Surinamese population

Shonimá Gangaram-Panday^{1,2}, Hanne Huygelier², Tiffany Kromosemito¹, Nele Demeyere³, Celine R. Gillebert²

¹Anton de Kom University of Suriname, Paramaribo, Suriname. ²Leuven Brain Institute, KU Leuven, Belgium.

³University of Oxford, Oxford, United Kingdom

641 Assessing Cognition of Indians: Development of TAM Battery- a Neuropsychological Battery for Tamil Speakers with Linguistic Adaptation and Validation for Use in Other Major Indian Languages.

Porrselvi A. Palanisamy

Unified Brain Health Care, Chennai, Tamil Nadu, India

642 Translation and Home Country Norms are not Enough: Lessons from Greek Australians

Mathew Staio¹, Kokkinis Nikolaos², Mary H Kosmidis², Evrim March², Renerus J Stolwyk²

¹Monash University, Melbourne, Victoria, Australia. ²Aristotle University of Thessaloniki, Thessaloniki, Greece

643 Development and validation of the European Cross-Cultural Neuropsychological Test Battery (CNTB)

T. Rune Nielsen

Danish Dementia Research Center, Copenhagen, Denmark

992 Discussion - Symposium 06: Neuropsychological Test Translation, Adaptation, and Development: Lessons learned from Africa, Australia, Europe, South America, and South Asia

Tedd Judd

Universidad del Valle de Guatemala, Guatemala City, Guatemala

Symposium 04: Technology Based Interventions for Neurodegenerative Disease

4:00 - 5:30pm Thursday, 3rd February, 2022

8 Technology Based Interventions for Neurodegenerative Disease

Chair

Jared Bengé

University of Texas at Austin, Austin, USA

Discussant

Russell Bauer

University of Florida, Gainesville, USA

29 Dementia Caregiver Insights on Use of Assistive Technologies

Andrew M Kiselica¹, Anna Boone¹, Michael Scullin², Jared F Bengé³

¹University of Missouri, Columbia, MO, USA. ²Baylor, Waco, TX, USA. ³University of Texas--Austin, Austin, TX, USA

39 A Randomized Controlled Trial of Smartphone Enabled Strategies to Improve Prospective Memory Functioning in Mild Cognitive Impairment and Mild Dementia

Jared F Bengé^{1,2,3}, Winston E Jones², Richard Phenix³, Samantha Beevers³, Sabra Rosen³, Kara Dinh³, Andrew Kiselica^{4,3}, Francis J Keefe⁵, Michael K Scullin^{2,3}

¹Dell Medical School, University of Texas At Austin, Austin, TX, USA. ²Baylor University, Waco, TX, USA. ³Baylor Scott and White Health, Temple, TX, USA. ⁴University of Missouri, Columbia, MO, USA. ⁵Duke University, Durham, NC, USA

41 Improving the Efficacy of Traditional Compensation Tools and Interventions for Individuals with Mild Cognitive Impairment with Technologies

Maureen Schmitter-Edgecombe, Catherine Luna, Diane J. Cook

Washington State University, Pullman, WA, USA

239 ActiDaily App: Turning Apathy into Action in Neurodegenerative Disease

Dawn Mechanic-Hamilton, Sean Lydon, Panpan Zhang, Sharon X Xie, Alexander Miller, Lauren Massimo

University of Pennsylvania, Philadelphia, PA, USA

990 Discussion - Symposium 04: Technology Based Interventions for Neurodegenerative Disease

Russell Bauer

University of Florida, Gainesville, FL, USA

Paper Session 05: Aging 1

4:00 - 5:30pm Thursday, 3rd February, 2022

1 Longer Sleep Duration and Less Sleep Variability is Associated with Better Cognition and Lower Amyloid and Tau Burden in Healthy Older Adults.

Laura Fenton^{1,2}, Lisette Isenberg², Vahan Aslanyan², Daniel Albrecht², Joy Stradford², Teresa Monreal², Judy Pa^{2,3}

¹Department of Psychology, University of Southern California, Los Angeles, CA, USA. ²Mark and Mary Stevens Neuroimaging and Informatics Institute, Keck School of Medicine, University of Southern California, Los Angeles, CA, USA. ³Department of Neurology, University of Southern California, Los Angeles, CA, USA

2 CSF Markers of Synaptic Dysfunction and Axonal Injury Synergistically Predict Atrophy in AD-Sensitive Brain Regions in Clinically Normal Adults

Rowan Saloner^{1,2}, Nina Djukic¹, Corrina Fonseca¹, Johanna Nilsson³, Ann Brinkmalm^{3,4}, Kaj Blennow^{3,4}, Henrik Zetterberg^{3,4,5,6,7}, Joel H Kramer¹, Kaitlin B Casaletto¹

¹Memory and Aging Center, University of California, San Francisco, San Francisco, CA, USA. ²SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, the Sahlgrenska Academy at the University of Gothenburg, Mölndal, Sweden. ⁴Clinical Neurochemistry Laboratory, Sahlgrenska University Hospital, Mölndal, Sweden. ⁵Department of Neurodegenerative Disease, UCL Institute of Neurology, Queen Square, London, United Kingdom. ⁶UK Dementia Research Institute at UCL, London, United Kingdom. ⁷Hong Kong Center for Neurodegenerative Diseases, Hong Kong, China

3 Cellular pathways connecting physical activity to the brain in humans: A window into cognitive reserve and resilience?

Kaitlin B Casaletto¹, Cutter Lindbergh², Alfredo Ramos-Miguel³, Anna VandeBunte¹, Molly Memel¹, Julie Schneider⁴, Aron Buchman⁴, David Bennett⁴, William Honer⁵

¹UCSF, San Francisco, CA, USA. ²University of Connecticut, Storrs, CT, USA. ³University of the Basque Country, Biscay, Spain. ⁴Rush University, Chicago, IL, USA. ⁵University of British Columbia, Vancouver, Canada

4 DNA-Methylation “GrimAge” Acceleration Mediates Sex Differences in Verbal Learning and Recall: Findings from the Health and Retirement Study

Deirdre M. O’Shea, Geoffrey Tremont, Brian R. Ott, Lori A. Daiello, Jonathan D. Drake

Brown University, Providence, Rhode Island, USA

5 Pulse Pressure Interacts with Tau PET to Predict Longitudinal Change in Memory and Executive Function Independently of Amyloid-Beta PET

Alexandra J Weigand¹, Alyssa J Macomber², Kayla S Walker³, Lauren Edwards¹, Kelsey R Thomas^{2,4}, Katherine J Bangen^{2,4}, Mark W Bondi^{2,4}

¹San Diego State University/University of California, San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²University of California, San Diego, San Diego, CA, USA. ³San Diego State University, San Diego, CA, USA. ⁴VA San Diego Healthcare System, San Diego, CA, USA

6 Clinical and Neuropathological Moderators of Longitudinal Change in Serial Position Scores in Older Adults

Kristina M Gicas¹, William G Honer², Robert S Wilson³, Patricia A Boyle³, Sue E Leurgans³, Julie A Schneider³, David A Bennett³

¹York University, Toronto, ON, Canada. ²University of British Columbia, Vancouver, BC, Canada. ³Rush University Medical Centre, Chicago, IL, USA

Paper Session 06: TBI

4:00 - 5:30pm Thursday, 3rd February, 2022

1 Variations in white matter connectivity within and across functional brain networks in pediatric traumatic brain injury

Peyton Thomas¹, Whitney I Mattson¹, Eric Nelson¹, Scout Crowell¹, Ryan Wier², Sandra Glazer³, Brianna Laney¹, Warren Lo¹, Kathryn Vannatta¹, William A Cunningham⁴, Elisabeth A Wilde^{5,6}, Keith Owen Yeates⁷, Kristen R Hoskinson^{1,8}

¹Nationwide Children's Hospital, Columbus, Ohio, USA. ²George Washington University, Washington, DC, USA. ³University of Cincinnati, Cincinnati, Ohio, USA. ⁴University of Toronto, Toronto, Ontario, Canada. ⁵University of Utah,

Salt Lake City, Utah, USA. ⁶George E. Walhen VA Medical Center, Salt Lake City, Utah, USA. ⁷University of Calgary, Calgary, Alberta, Canada. ⁸The Ohio State University College of Medicine, Columbus, Ohio, USA

2 Stress Reactivity after Pediatric Traumatic Brain Injury: Relation with Behavioral Adjustment

Christina V Nania¹, Tammy Tolar², Mary Prasad¹, Linda Ewing-Cobbs¹

¹McGovern Medical School, Houston, TX, USA. ²Tolar Analytics, Houston, TX, USA

3 A Machine Learning Approach to Identifying Relevant Features of Metacognitive Deficit Following Moderate-Severe Traumatic Brain Injury

Emily C Grossner, Andrew P Cwiek, Frank G Hillary

The Pennsylvania State University, State College, PA, USA

4 Relationship Between Cognition and Return to Driving After Moderate-to-Severe Traumatic Brain Injury

Christina A DiBlasio¹, Thomas A Novack¹, Despina Stavrinos¹, Laura E Dreer¹, Michael Crowe¹, Lisa J Rapport², Jennifer H Marwitz³, Thomas Bergquist⁴, Thomas K Watanabe⁵, Robert Brunner¹, Yelena Goldin⁶, Charles Bombardier⁷, Candice Tefertiller⁸, Richard E Kennedy¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²Wayne State University, Detroit, MI, USA. ³Virginia Commonwealth University, Richmond, VA, USA. ⁴Mayo Clinic, Rochester, MN, USA. ⁵Moss Rehab at Elkins Park/Einstein Healthcare Network, Elkins Park, PA, USA. ⁶JFK Rehabilitation Institute, Edison, NJ, USA. ⁷University of Washington, Seattle, WA, USA. ⁸Craig Hospital, Englewood, CO, USA

5 Effects of Perceived Discrimination on Cognitive, Neuropsychiatric, and Psychosocial Outcomes in People Aging with Traumatic Brain Injury

Umesh (Umi) M Venkatesan¹, Amanda R Rabinowitz¹, Rachel A Bernier², Jose A Soto³, Frank G Hillary^{3,4}

¹Moss Rehabilitation Research Institute, Elkins Park, PA, USA. ²UC San Diego School of Medicine, San Diego, CA, USA. ³Pennsylvania State University, University Park, PA, USA. ⁴Penn State Hershey Medical Center, Hershey, PA, USA

6 Pre-Injury Intelligence, Cognitive Functioning, Amyloid Burden, and CSF Tau in Vietnam Veterans Decades Post Injury

Samantha M Vervoordt¹, Jordan Grafman², Danielle J Harvey³, Frank G Hillary¹

¹Penn State University, University Park, PA, USA. ²Northwestern University, Chicago, IL, USA. ³University of California, Davis, Davis, CA, USA

Paper Session 09: Neuroimaging

4:00 - 5:30pm Thursday, 3rd February, 2022

1 Self-Awareness for Financial Decision Making Abilities is linked to Resting State Functional Connectivity in Cognitively Healthy Older Adults.

Preeti Sunderaraman¹, Eleanna Varangis², Silvia Chapman², Jillian Joyce², Yaakov Stern², Stephanie Cosentino²

¹Boston University School of Medicine, Boston, MA, USA. ²Columbia University Medical Center, New York City, NY, USA

2 Influence of Endogenous Estrogen on a Network Model of Female Brain Integrity and Metabolic Health

Janelle T Foret, Drew D Gourley, Marie Caillaud, Maria Dekhtyar, Hirofumi Tanaka, Andreana P Haley

University of Texas, Austin, Texa, USA

3 White Matter Hyperintensity Volume and Amyloid-PET Synergistically Impact Executive Dysfunction and Memory Independently of Tau-PET in Older Adults Without Dementia

Lauren Edwards¹, Emily C. Edmonds^{2,3}, Kelsey R. Thomas^{2,3}, Kayla Walker⁴, Alexandra J. Weigand¹, Mark W. Bondi^{3,5}, Katherine J. Bangen^{2,3}

¹San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²Research Service, VA San Diego Healthcare System, San Diego, CA, USA. ³Department of Psychiatry, University of California, San Diego, La Jolla, CA, USA. ⁴San Diego State University, San Diego, CA, USA. ⁵Psychology Service, VA San Diego Healthcare System, San Diego, CA, USA

4 White matter hyperintensities and tau, but not amyloid, are associated with memory performance in middle-aged, racially and ethnically diverse adults in a community-based cohort

Patrick Lao, Miguel Arce Renteria, Joncarlos Berroa, Andrea Benavides, Emely Tejeda, Heather Shouel, Kay Igwe, Benjamin Maas, Nicole Schupf, Richard Mayeux, Jennifer Manly, Adam M Brickman

Columbia University, New York, USA

5 Socioeconomic Status and Brain Health in Racially/Ethnically Diverse Middle-Aged Adults

Indira C Turney, Justina F Avila, Patrick J Lao, Kay Igwe, Andres Rivera, Joncarlos Berro, Jennifer J Manly, Adam M Brickman

Columbia University Medical Center, New York City, NY, USA

6 Moving Beyond Movement: Contribution of Cerebellar Structure and Connectivity on Cognition and Mood in Multiple Sclerosis

Cristina A. F. Román^{1,2}, John DeLuca¹, Margaret Cadden³, Peter A. Arnett²

¹Kessler Foundation, West Orange, NJ, USA. ²The Pennsylvania State University, State College, PA, USA. ³MGH, Boston, MA, USA

Poster Session 10: Psych | Sleep | Child Assessment | Emotion | SUD

7:30 - 8:30am Friday, 4th February, 2022

1 Withdrawal Symptoms and Response Inhibition Across a Three-Week Monitored Abstinence in Adolescent and Young Adult Cannabis- and Alcohol-Users

Julia C Harris¹, Ryan M Sullivan¹, Jessica A Birg², Krista M Lisdahl¹

¹University of Wisconsin-Milwaukee, Milwaukee, WI, USA. ²University of South Florida, Tampa, FL, USA

2 Risk-Taking and Alcohol Demand in College Binge Drinkers: Testing History of Mild Traumatic Brain Injury as a Predictor.

Jessie J Tibbs¹, Dennis E McChargue²

¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, USA. ²University of Nebraska-Lincoln, Lincoln, NE, USA

3 A Pilot Study of Change in Neuropsychiatric Factors and BDNF in Early Substance Abstinence

Alicia Ito Ford, Dolores Vazquez Sanroman

Oklahoma State University Center for Health Sciences, Tulsa, OK, USA

4 Potential for Inflated Norms in Neuropsychological Assessment of Individuals Who Use Methamphetamine

Kate Shirley^{1,2}, Maya E. O'Neil^{1,2}, Jennifer M. Loftis^{1,2}

¹Oregon Health & Science University, Portland, OR, USA. ²Veterans Affairs Portland Health Care System, Portland, OR, USA

5 Developmentally-Informed Recall & Executive Assessment of Memory (DREAM)

Alyssa Ailion¹, Christy Casnar², Rabbia Iqbal³, Olivia Dann³, Erin Stolz³, Peter Isquith¹, Gerard Gioia³

¹Boston Children's Hospital, Boston, MA, USA. ²Medical College of Wisconsin, Milwaukee, Wisconsin, USA.
³Children's National Hospital, Washington, DC, USA

6 Keeping the Debate Alive: What Does Verbal Fluency Measure in Youth with Epilepsy?

Dalin T Pulsipher¹, Bruna Schneider², Kathleen Hassara², Lisa D Stanford², Erica M Krapf²

¹University of Rochester Medical Center, Rochester, NY, USA. ²Akron Children's Hospital, Akron, OH, USA

7 Evaluating Children and Youth Who are Deaf/Hard of Hearing: A Survey of Psychologists and Neuropsychologists

Matthew E. Fasano-McCarron, Rachel Landsman, Yoav Shimoni, Peter K. Isquith, Terrell A. Clark

Boston Children's Hospital/Harvard Medical School, Boston, MA, USA

8 The Impact of Intelligence and Age across Performance Validity Tests in a Mixed Clinical Pediatric Sample

Kritika Nayar¹, Tasha Rhoads², Zachary J Resch³, Lea Ventura⁴, Jason R Soble³

¹Northwestern Feinberg School of Medicine, Chicago, IL, USA. ²Rosalind Franklin University, North Chicago, IL, USA. ³University of Illinois Chicago, Chicago, IL, USA. ⁴NA, Chicago, IL, USA

9 Clinical Multi-Group Examination and Comparison of Multivariate Base Rates of Score Elevations on the BRIEF2

Stephen L Aita^{1,2}, Grant G Moncrief^{1,2}, Alicia Carrillo³, Jennifer Greene³, Sue Trujillo³, Gerard A. Gioia⁴, Peter K. Isquith⁵, Robert M. Roth^{1,2}

¹Geisel School of Medicine at Dartmouth, Hanover, NH, USA. ²Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA. ³Psychological Assessment Resources, Lutz, FL, USA. ⁴Children's National Medical Center, Washington, DC, USA. ⁵Boston Children's Hospital, Boston, MA, USA

10 Validity of Attention Measures in Young Children with Neurofibromatosis type 1: A Preliminary Investigation

Danielle M Glad, Sara K Pardej, Kristin Lee, Bonita P Klein-Tasman

University of Wisconsin-Milwaukee, Milwaukee, WI, USA

11 Relationship Between Caregiver-Reported Emerging Social Attention, Social Communication, and Attentional Orienting/Regulation at 6 Months of Age

Casey E. Swick¹, Angela Staples¹, Seth Warschausky², Jamie Lawler¹, Renee Lajiness-O'Neill¹

¹Eastern Michigan University, Ypsilanti, MI, USA. ²Michigan Medicine, Ann Arbor, MI, USA

12 Comparison of the NIH Toolbox Cognition Battery and Traditional Neuropsychological Assessment in Pediatric Hematology/Oncology Patients

Victoria Seghatol-Eslami¹, Tiffany Tucker¹, Julie Trapani¹, Karthik Reddy¹, Eleanor Lee¹, Sylvia Cartagena¹, Andie Grimm¹, Shreya Grandhi¹, Sarah-Ann McGilvray¹, Donna Murdaugh^{1,2}

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²Institute for Cancer Outcomes and Survivorship, Birmingham, AL, USA

13 Examining the Contribution of Processing Speed Abilities on Performance of Executive Functioning and Sustained Attention in a Mixed Pediatric Clinical Population

Krystal Christopher^{1,2}, Furtuna Tewolde¹, Nicole Norheim¹, Shelley C Heaton¹

¹University of Florida, Gainesville, Florida, USA. ²University of Houston, Houston, Texas, USA

14 Perceived Cognitive Impairment in High School Students in the United States

Grant L Iverson^{1,2,3}, Ila A Iverson⁴

¹Harvard Medical School, Boston, MA, USA. ²Spaulding Research Institute, Charlestown, MA, USA. ³Spaulding Rehabilitation Hospital, Charlestown, MA, USA. ⁴University of British Columbia, Vancouver, BC, Canada

15 Youth with Weaker Language Processing Show Poorer Performance on Both Verbal and Visual Memory Tasks

Furtuna G Tewolde, Morganne Warner, Roxy Miltenberger, Nicole Norheim, Shelley Heaton

University of Florida, Gainesville, FL, USA

16 “Teenagers Don’t Like to Go to Bed Early:” An Analysis of Family Implementation of Pediatric Neuropsychological Recommendations

Erin T. Kaseda¹, Stephanie K. Powell², Clayton D. Hinkle², Lizabeth L. Jordan², Megan N. Scott², Frank A. Zelko²

¹Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA. ²Ann and Robert H. Lurie Children's Hospital of Chicago, Chicago, IL, USA

17 Does the Embedded ChAMP Validity Indicator Need New Cut Scores?

Furtuna G Tewolde, Roxy Miltenberger, Morganne Warner, Nicole Norheim, Shelley Heaton

University of Florida, Gainesville, FL, USA

18 Development and Validation of the Social Reward Questionnaire – Early Childhood Version (SRQ-EC)

Kate J Godfrey^{1,2}, Lucy Foulkes³, Carly McMorris^{2,4}, Ashley D Harris^{1,2,5}, Signe Bray^{1,2,5}

¹Child and Adolescent Imaging Research (CAIR) Program, University of Calgary, Calgary, AB, Canada. ²Hotchkiss Brain Institute, University of Calgary, Calgary, AB, Canada. ³Anna Freud National Centre for Children and Families, London, United Kingdom. ⁴Werklund School of Education, Calgary, AB, Canada. ⁵Department of Radiology, University of Calgary, Calgary, AB, Canada

19 Do Depression Symptoms and Sex Moderate Associations Between Cannabis Use and Episodic Memory Performance Among Adolescents?

Sarah M. Lehman, Erin L. Thompson, Samuel W. Hawes, Ileana Pacheco- Colón, Ashley R. Adams, Karen Granja, William J. Pulido, Raul Gonzalez

Florida International University, Miami, FL, USA

20 The Different Effects of Mindfulness-Based Relapse Prevention Group Therapy on QEEG Measures in Various Severity Substance Use Disorder Involuntary Clients

Cheng-Hung Ko¹, Nai-Wen Guo², Chun-Hung Lee¹, Yung-Chin Lu³, Yu-Chi Liao⁴

¹Department of addiction and Forensic Psychiatry, Jianan Psychiatric Center, MOHW, Tainan, Taiwan. ²Institute of Behavioral Medicine, National Cheng Kung University, Tainan, Taiwan. ³Department of clinical psychology, Jianan Psychiatric Center, MOHW, Tainan, Taiwan. ⁴Department of Psychology, College of Medical and Health Science, Asia University, Taichung, Taiwan

21 Differences in the Association of Moderate Alcohol Use and Cognition by Sex/Gender and Race/Ethnicity

Danielle S Kroll¹, Justina F Avila-Rieger², Patrick J Lao², Dominika Seblova², Yian Gu², Adam M Brickman², Jennifer J Manly², Miguel Arce Rentería²

¹Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA. ²Department of Neurology, Taub Institute for Research on Alzheimer's Disease and the Aging Brain, Columbia University College of Physicians and Surgeons, New York, NY, USA

22 Multiple Drug Consumption and Executive Performance in a Sample of Hispanic Women

Bexaida Diaz¹, Nelson Cruz-Bermúdez², Rosa Rodríguez², Valerie Wojna¹

¹University of Puerto Rico, Medical Campus, San Juan, PR, Puerto Rico. ²University of Puerto Rico, Rio Piedras Campus, San Juan, PR, Puerto Rico

23 Neuropsychological Functioning and Interferon Gamma Levels in Veterans with Gulf War Illness from the Gulf War Illness Consortium (GWIC)

Dylan Keating¹, Alexa Friedman¹, Jenna Groh², Charlotte JeanMichel¹, Maria Abreu^{3,4}, Emily Quinn¹, Maxine Krengel², Kimberly Sullivan¹

¹Boston University School of Public Health, Boston, MA, USA. ²Boston University School of Medicine, Boston, MA, USA. ³Nova Southeastern University, Fort Lauderdale, FL, USA. ⁴Miami VA Medical Center, Miami, FL, USA

24 Thinking Makes it so: Cognitive Control and Emotion Regulation

Hannes Heppner, Stuart Hall

University of Montana, Missoula, Montana, USA

25 Cortisol Reactivity and Working Memory in Adolescents from Low-Income Environments

Clarissa Shields, John Gunstad, Amy Sato

Kent State University, Kent, OH, USA

26 At the Heart of State Rumination: a Novel Physiological Index of the Construct

Caitlin Tytler¹, Ilya Yaroslavsky¹, Maria Kovacs²

¹Cleveland State University, Cleveland, Ohio, USA. ²University of Pittsburgh, Pittsburgh, Pennsylvania, USA

27 Differences in Emotional Lability Between Attention-Deficit/Hyperactivity Disorder Subtypes

Melanie R Silverman¹, Randi Bennett², Jill Stadterman¹, Amy K. Roy^{1,2}

¹Fordham University, Bronx, NY, USA. ²Hassenfeld Children's Hospital NYU Langone, New York, NY, USA

28 Loneliness and Cardiovascular Disease Indicators in U.S. and Japanese Adults

Eleni A Kapoulea, Rebecca E Ready

University of Massachusetts-Amherst, Amherst, MA, USA

29 Communication Efficacy and Confidence Across Modalities Throughout the Lifespan

Emma Pinsky, Moira McKniff, Tania Giovannetti

Temple University, Philadelphia, PA, USA

30 Relationship Between Self-Reported Affect and Emotion Perception Following Acquired Brain Injury

Lauren J Radigan¹, Lisa J Rapport¹, Nia Billings², Robiann Broomfield¹, Mark Lumley¹, Robin Hanks¹, Scott Langenecker³

¹Wayne State University, Detroit, MI, USA. ²Mary Free Bed Rehabilitation Hospital, Saginaw, MI, USA. ³University of Utah, Salt Lake City, UT, USA

31 Is School In or Out? Education and Parent/Caregiver Stress During COVID-19

Karlie A Krause, Lisa D Stanford, Anne-Marie Fleckenstein, Erica Krapf

Akron Children's Hospital, Akron, Ohio, USA

33 Association of Emotional Symptoms and Community Integration Following Combat Deployment

Alyssa M Day^{1,2}, Nicholas J Pastorek², Maya Troyanskaya^{2,3}, Michael W Williams¹, Randall S Scheibel^{2,3}

¹University of Houston, Houston, Texas, USA. ²Michael E. DeBakey Veterans Affairs Medical Center, Houston, Texas, USA. ³Baylor College of Medicine, Houston, Texas, USA

34 Temporal Dynamics of Attention Bias in Anxiety: An Eye-Tracking Study

Abel S Mathew, Han-Joo Lee

University of Wisconsin-Milwaukee, Milwaukee, WI, USA

35 The Prevalence of Post-Traumatic Stress Disorder Among Dementia Caregivers

Genna M Mashinchi, Emily C Hicks, Hannes Heppner, Stuart Hall

University of Montana, Missoula, MT, USA

36 A Brief Screening Measure of Peritraumatic Cognitive Load: Relationship to Memory Intrusion and Disorganization in an Experimental Paradigm & Implications for Assessment and Treatment.

Michael L. Turman, Julianne P. Lawson, Sara C. Haden

Long Island University, Brooklyn Campus, Brooklyn, New York, USA

37 Tele-Neuropsychological Evaluation of Comorbid Anxiety and Depression

Hannah M Lovato, Lara H Heflin

38 The Intersection of Mood and Finger Tapping in Traumatic Brain Injury

Raymundo Cervantes¹, Daniel W Lopez-Hernandez¹, Alexis Bueno¹, Krissy E Smith¹, Isabel D Munoz¹, Bethany A Nordberg¹, Natalia Lozano Acosta², Paul M Vespa³, David A Hovda³, David McArthur¹, Deborah Budding¹, Ellen Woo⁴, David J Hardy⁵, Paul Matthews¹, Todd S Zorick¹, Pavel Y Litvin¹, Matthew J Wright¹, Joaquin M Fuster³

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39 Central Autonomic Network Predictors of Self-Reported Sleep Quality and PTSD Symptoms in a Sample of Veterans with and Without a History of TBI

Erin R Trifilio^{1,2}, Jake D Reike^{1,2}, Damon G Lamb^{1,2}, John B Williamson^{1,2}

¹Malcom Randall VA BRRC, Gainesville, FL, USA. ²University of Florida Department of Psychiatry, Gainesville, FL, USA

40 Disentangling Boredom from Depression Using Involuntary Autobiographical Memories

Ryan C Yeung¹, Wijnand AP van Tilburg², James Danckert¹, Myra A Fernandes¹

¹University of Waterloo, Waterloo, ON, Canada. ²University of Essex, Colchester, United Kingdom

41 Self-Reported Cognitive and Functional Change is Associated with Depressive Symptom Trajectories During Psychotherapy for Late Life Major Depressive Disorder

Michelle T Kassel^{1,2}, Emma Rhodes^{1,2}, Philip Insel^{2,3}, Cara Woodworth², Christina Garrison-Diehn², J. Craig Nelson², R. Scott Mackin^{2,1}

¹San Francisco VA Health Care System, San Francisco, CA, USA. ²University of California, San Francisco, San Francisco, CA, USA. ³Lund University, Lund, Sweden

42 State Anxiety is Negatively Correlated with Fusiform Gyrus Volume

Scarlett Cong^{1,2,3}, Andrew M Gradone^{1,2,3}, Vonetta M Dotson^{4,2,3}

¹Georgia state University, Atlanta, Georgia, USA. ²Department of Psychology, Atlanta, Georgia, USA. ³Gerontology Institute, Atlanta, Georgia, USA. ⁴Georgia state University, Atlanta, Georgia, USA

43 Depression, Anxiety, and HIV Status are Associated with Impairment in Aspects of Everyday Functioning

Jason DeFelice, Destin Shortell, Vaughn Bryant, Robert Cook, Eric Porges, Ronald Cohen

University of Florida, Gainesville, FL, USA

44 Prospective association between PTSD and decline in Executive Functioning in World Trade Center responders

Elaine Schultz¹, Scot Hill¹, Robert Heilbronner², Roman Kotov³, Monika Waszczuk¹

¹Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA. ²Northwestern University, Chicago, IL, USA. ³Stony Brook University, Stony Brook, New York, USA

45 Posttraumatic Growth is Related to Worse Cognitive Performance in Combat-Related PTSD

Lena Etzel^{1,2}, Robert D. Shura^{2,3,4}, Holly M. Miskey^{2,3,4}

¹University of North Carolina at Charlotte, Health Psychology, Charlotte, NC, USA. ²Hefner VA Medical Center, Salisbury, NC, USA. ³Wake Forest School of Medicine, Winston-Salem, NC, USA. ⁴Edward Via College of Osteopathic Medicine, Blacksburg, VA, USA

46 Higher Childhood Trauma is Related to Lower Cognitive Functioning at Baseline with Similar Rates of Longitudinal Change in Bipolar Disorder

Tobin J Ehrlich¹, Shamara Williams¹, Kelly A Ryan¹, Scott A Langenecker², Melvin G McInnis¹, David F Marshall¹

¹University of Michigan, Ann Arbor, MI, USA. ²University of Utah, Salt Lake City, UT, USA

47 Cognitive Functioning and Community Reintegration in Iraq and Afghanistan Veterans with Mental Health Conditions at Risk for Homelessness

Amber V Keller^{1,2}, Chantal Muller-Cohn^{2,3}, Amy J Jak^{4,5,6}, Elizabeth W Twamley^{2,5,6}

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48 Cognitively Impaired Patient Psychiatric Symptoms Impact Caregiver Burden

Nancy E Mendoza Estrada, Danielle Mook, Isabel Munoz, Jill Razani

California State University Northridge, Northridge, CA, USA

49 Antidepressant Treatment Response and Remission Rates in Depressed Older Adults with Neurocognitive Deficits

Dakota A Egglefield^{1,2}, Sophie Schiff^{1,2}, Bret R Rutherford³, Joel R Sneed^{1,2,3}

¹The Graduate Center, CUNY, New York, New York, USA. ²Queens College, Queens, New York, USA. ³Columbia University and the New York State Psychiatric Institute, New York, New York, USA

50 Perceived Stress and Delay Discounting in Schizophrenia, Cannabis Use Disorder, and Dual Diagnosis

Christi L. Trask, Robert M. Roth, Mary L. Hynes, Mary F. Brunette

Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA

52 Childhood Physical Neglect and Earlier Age at Attempted Suicide, Among Individuals Later Diagnosed with a Psychotic Disorder, Predict Deficits in Working Memory, Executive Functioning, and Processing Speed.

Elmma Khalid, Erin T. Kaseda, Milena Y. Gotra, Scot K. Hill

Rosalind Franklin University of Medicine and Science, North Chicago, Illinois, USA

53 Differences Between In-Person and Telehealth Symptom and Neuropsychological Presentation in First Episode Psychosis

Simran Kang, Christine J Lee, Leia Ting, Philip Watson

Zucker Hillside Hospital, Northwell Health, Glen Oaks, NY, USA

54 Relationship of Nicotine and Cannabis to Neuropsychological Predictors of Treatment Response in First-Episode Psychosis

Melanie Blair Thies^{1,2,3}, Pamela DeRosse^{3,2,4}, Juan A. Gallego^{3,2,4}, Nehal Vadhan^{3,4}, Philip Watson^{3,2}, Whitney Muscat⁵, Taylor Marzouk^{3,2,6}, Simran Kang^{3,2,1}, Anil K. Malhotra^{3,2,4}

¹Graduate Center- City University of New York, New York, NY, USA. ²Zucker Hillside Hospital, Glen Oaks, NY, USA. ³The Feinstein Institute of Medical Research, Manhasset, NY, USA. ⁴The Donald and Barbara Zucker School of Medicine at Hofstra/Northwell, Hempstead, NY, USA. ⁵Hofstra University, Hempstead, NY, USA. ⁶Columbia University- Teachers College, New York, NY, USA

55 Psychotic-Like Events Associated with Poorer Attention but Unaffected by Marijuana Use

Corinne Guilday, Robert Switzer, Janina Kamm

The Chicago School of Professional Psychology, Chicago, Illinois, USA

56 Frontotemporal Connectivity and Working Memory Deficit in Schizophrenia

Xiao Yang, Faith Steffen-Allen, Rachel P So, Erin R Stolz, Timothy I Michaels, Monica Ly, Emily Farina, Chi-Ming Chen

University of Connecticut, Storrs, CT, USA

57 Language-based Deficits Observed Across the Psychotic Spectrum

Kaley Angers, Julie Suhr, Allie Binkiewicz, Cheryl Appel

Ohio University, Athens, OH, USA

58 Impact of PTSD and Obstructive Sleep Apnea on Cognition in Older Adult Veterans

Madeline DW Noland¹, Emily Paolillo^{1,2}, Art Noda³, Laura Lazzeroni³, Jerome Yesavage³, Lisa Kinoshita¹

¹VA Palo Alto Healthcare System, Palo Alto, CA, USA. ²San Diego State University/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³Stanford University, Stanford, CA, USA

59 The Role of Emotional Distress in the Relation between Sleep and Physical Symptom Reporting

Brandon G Zuccato, Robin J Howard, Erica Seal, Christopher A Abeare

University of Windsor, Windsor, ON, Canada

60 Impact of Obstructive Sleep Apnea Disease Duration on Neuropsychological Performance During the Chronic Recovery Stage After Traumatic Brain Injury: A VA TBI Model Systems Study

Jaylene M. Lee¹, Amanda Garcia^{1,2}, Kristen Dams O'Connor³, Risa Nakase-Richardson^{1,4}, Marc A. Silva^{1,4}

¹James A Haley Veterans' Hospital, Tampa, FL, USA. ²Department Health Agency TBI Center of Excellence, Tampa, FL, USA. ³Icahn School of Medicine at Mt. Sinai, New York, NY, USA. ⁴University of South Florida, Tampa, FL, USA

61 The Effect of Restricted and Habitual Sleep on Cognition in Healthy Adults

Molly E. Zimmerman¹, Christiane Hale², Lok-Kin Yeung², Justin Cochran², Adam M. Brickman², Marie-Pierre St-Onge²

¹Fordham University, Bronx, NY, USA. ²Columbia University Vagelos College of Physicians and Surgeons, New York, NY, USA

62 Sleep Apnea Contributes to Racial and Intersectional Disparities in Cognition Among Older Adults

Afsara B. Zaheed, Ketlyne Sol, Emily P. Morris, Lindsey M. Meister, Alexa G. Martino, Jordan D. Palms, Laura B. Zahodne

University of Michigan, Ann Arbor, MI, USA

63 Sleep regularity, attention, and executive functioning in adolescents with spina bifida

Laura Nicholson¹, Amy Bohnert¹, Diana Ohanian¹, Caitlin Murray², Grayson Holmbeck¹

¹Loyola University Chicago, Chicago, IL, USA. ²Seattle Children's Research Institute, Seattle, WA, USA

64 Associations of Wake Time, Physical Activity and Task Switching in Adolescent Girls

Hannah A Hagy¹, Amy Bohnert¹, Frank F Tu^{2,3}, Kevin M Hellman^{2,3}

¹Loyola University Chicago, Chicago, IL, USA. ²NorthShore University Health System, Evanston, IL, USA. ³University of Chicago, Pritzker School of Medicine, Chicago, IL, USA

65 Sleep Quality and Mental Health in People Recovered from COVID-19 Versus Non-Infected People

Ixchel Pérez-Amazcua¹, Bernarda Téllez-Alanís²

¹Facultad de Psicología UAEM, Cuernavaca, Morelos, Mexico. ²CITPSI UAEM, Cuernavaca, Morelos, Mexico

66 Effect of Cognitive Fatigue on Clinical Performance in Flight Medicine

Jennifer Nosker¹, Maureen Lassen¹, Allen Cornelius¹, Daniel Holland¹, Rebecca Grossman²

¹Fielding Graduate University, Santa Barbara, CA, USA. ²Hofstra, Long Island, NY, USA

CE Workshop 11: Elucidating the Neurocognitive Effects of Electroconvulsive Therapys -- Presenter: Shawn M. McClintock

8:00 - 9:30am Friday, 4th February, 2022



Shawn M. McClintock, PhD, MSCS

Associate Professor

Division of Psychology, Department of Psychiatry

UT Southwestern Medical Center

Adjunct Associate Professor

Department of Psychiatry and Behavioral Sciences

Duke University School of Medicine

CE Workshop 11: Elucidating the Neurocognitive Effects of Electroconvulsive Therapys

Level of Instruction: Intermediate

Abstract & Learning Objectives:

Electroconvulsive therapy (ECT) is one of the most effective antidepressant therapies for adults across the lifespan who have major depressive disorder (MDD). Since the late 1930s, ECT has been used as an acute, continuation, or maintenance treatment either alone or in combination with other antidepressant therapies as a treatment for MDD, suicidality, psychotic features, and catatonia. Consistent evidence has found ECT to have high response and remission rates. However, ECT also results in adverse cognitive effects. Such effects include decreased attention, verbal dysfluency, executive dysfunction, anterograde amnesia, and retrograde amnesia. While the exact mechanisms of action of such cognitive adverse effects remain unknown, evidence suggests that select ECT parameters, underlying neurocircuitry, demographic factors, and preexisting conditions may play a role. This session will provide up-to-date information regarding the refinement of ECT practice to maximize safety and efficacy, the antidepressant effects of ECT, the cognitive effects of ECT, and role clinical neuropsychologists can serve on integrated healthcare ECT treatment teams.

Upon conclusion of this course, learners will be able to:

- Describe the cognitive adverse effects of electroconvulsive therapy
- List the electroconvulsive therapy parameters that are associated with cognitive adverse effects
- Explain how clinical neuropsychologists can serve on integrated healthcare ECT treatment teams

Speaker Biography:

Dr. Shawn McClintock is an Associate Professor of Psychiatry and holds the Lydia Bryant Test Distinguished Professorship in Psychiatric Research in the Department of Psychiatry at UT Southwestern Medical Center. He is also the Director of Research Training in the UT Southwestern Clinical Psychology Doctoral Program and is an Adjunct Associate Professor in the Department of Psychiatry and Behavioral Sciences at Duke University School of Medicine.

Dr. McClintock received his BA in psychology from the University of North Texas (1998), his MS in Rehabilitation Counseling Psychology (2005), PhD degree in Clinical Psychology (2006), and MS with Distinction in Clinical Sciences (2011) from UT Southwestern Medical Center. He completed postdoctoral training in clinical neuropsychology and mood disorders research as a National Institute of Mental Health T32 Postdoctoral Fellow at UT Southwestern Medical Center, and he completed postdoctoral training in brain stimulation and therapeutic modulation at Columbia University / New York State Psychiatric Institute.

Dr. McClintock is a globally recognized expert in the neurocognitive effects of antidepressant neuromodulation therapeutics including electroconvulsive therapy and magnetic seizure therapy. He has received grant funding from the National Institutes of Health (NIH) since 2006, has published over 100 peer-reviewed articles, 12 books chapters, and is co-editing a book centered around his research focused on the neuropsychological effects of mood disorders and neuromodulation therapeutic interventions.

CE Workshop 12: Medical, Educational, and Psychosocial Impacts of COVID-19 on Children -- Presenter: Christine Koterba

8:00 - 9:30am Friday, 4th February, 2022



Christine Koterba, PhD, ABPP

Board Certified Clinical Neuropsychologist

Department of Psychology and Neuropsychology

Nationwide Children's Hospital

Assistant Clinical Professor of Pediatrics

The Ohio State University

CE Workshop 12: Medical, Educational, and Psychosocial Impacts of COVID-19 on Children

Level of Instruction: Intermediate

Abstract & Learning Objectives:

The COVID-19 pandemic has had significant medical, educational, and psychosocial impacts on children. With the new Delta variant and rising cases in children, we are learning more about the possible long-term impact of this virus on children's health and functioning. While most children with COVID-19 do well, a subset can experience more severe symptoms and in some cases can go on to develop long-term issues or multisystem inflammatory syndrome (MIS-C). In addition to the medical impact of the pandemic, recent research suggests that a multitude of children have lost learning opportunities due to a variety of factors, including school closures, variability in virtual instruction, and limited access to technology. Certain groups are also particularly vulnerable, including those with special learning needs, those who were too young to start school before the pandemic, and children from lower income and/or rural communities. On top of the medical and educational consequences of COVID-19 is the impact on children's mental health and well-being. While living through a pandemic has been difficult for everyone, the greatest impact may be on the youngest of us who have been cut off from friends and peers and have had to cope with much stress and uncertainty. In the face of these challenges, neuropsychologists are uniquely positioned to offer assessment and monitoring of outcomes, provide recommendations and support to address new learning difficulties, and recommend appropriate interventions to optimize children's psychosocial functioning.

Upon conclusion of this course, learners will be able to:

- Describe findings from early research examining the medical impact of COVID-19 on children.
- Identify which groups of children are at greatest risk for educational, emotional, behavioral, and social difficulties due to COVID-19.
- Apply new strategies in the assessment and intervention of children during the COVID-19 pandemic and beyond.

Speaker Biography:

Dr. Christine Koterba is a board certified clinical neuropsychologist in the Department of Psychology and Neuropsychology at Nationwide Children's Hospital and an Assistant Clinical Professor of Pediatrics at The Ohio State University. She is also the attending neuropsychologist on the Inpatient Rehabilitation Unit and the Associate

Director for the Pediatric Neuropsychology Internship Track. She also serves on the board of the Brain Injury Association of Ohio, is a co-chair of the Education and Advocacy Committee of the International Pediatric Rehabilitation Collaborative, and co-chair of the International Neuropsychology Society Brain Injury Special Interest Group. In addition to her work in pediatric rehabilitation and brain injury, she has particular interest on the impact of acquired illnesses with the potential for neurological impact, like COVID-19 and MIS-C in children. She has published on COVID related changes to neuropsychology rehabilitation practice, and has presented on the impact of the pandemic on children and pediatric neuropsychology.

***LIVE* Student Mentoring Event -- Host: Robin Green**

8:00 - 9:00am Friday, 4th February, 2022

You must be registered for this event in advance. Please fill out the form below.

<https://forms.gle/rU6HA9wNowmFVJ75A>

If you have already registered you can enter the event here

[Mentoring Session Event Link](#)

Poster Session 11: mTBI | CVA | Forensic

8:30 - 9:30am Friday, 4th February, 2022

01 Adult Cognitive Outcomes Following Childhood Mild Traumatic Brain Injury: A Scoping Review

Leah Chadwick, S. Benjamin Peckham, Keith Owen Yeates

University of Calgary, Calgary, Alberta, Canada

02 Relationship between coping and social participation following mild TBI: preliminary study of mediating effects of anxio-depressive and pain symptoms

Sarah Lussier^{1,2}, Sylvain Miljourns³, Michelle McKerral^{1,2}

¹Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR), IURDPM, CIUSSS du Centre-Sud-de-l'Île-de-Montréal, Montreal, Quebec, Canada. ²Department of Psychology, Université de Montréal, Montreal, Quebec, Canada. ³Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR), CISSS de Laval, Laval, Quebec, Canada

03 Blast Exposure and Transdiagnostic Symptom Clusters: Associations with Elevated Systemic Inflammation

Jasmeet P Hayes¹, Meghan Pierce², Kate Valerio¹, Mark Miller², William Milberg², Regina McGlinchey²

¹The Ohio State University, Columbus, USA. ²VA Boston Healthcare System, Boston, USA

04 Associations Between Health-Related Behaviors and Self-Reported Cognitive Symptoms in U.S. Military Personnel Injured on Deployment

Sarah M Jurick^{1,2}, Cameron T McCabe^{1,2}, Jessica R Watrous^{1,2}, Andrew J MacGregor², Samuel R Walton³, Ian J Stewart⁴, Lauren E Walker⁵, Michael R Galarneau²

¹Leidos, San Diego, CA, USA. ²Naval Health Research Center, San Diego, CA, USA. ³University of North Carolina, Chapel Hill, NC, USA. ⁴Uniformed Services University, Bethesda, MD, USA. ⁵David Grant USAF Medical Center, Fairfield, CA, USA

05 Different characterizations of repetitive head impact exposure in contact and non-contact sport athletes and their associations with neurocognitive testing

Grace K Amadon, Benjamin L Brett, Timothy B Meier

Medical College of Wisconsin, Milwaukee, Wisconsin, USA

06 Cognitive Intraindividual Variability in Collegiate Athletes at Baseline and Post-Concussion

Erin T Guty^{1,2}, Victoria C Merritt^{3,4}, Kaitlin E Riegler¹, Garrett A Thomas¹, Megan L Bradson¹, Peter A Arnett¹

¹Pennsylvania State University, University Park, PA, USA. ²The Charleston Consortium, Charleston, SC, USA. ³VA San Diego Healthcare System, San Diego, CA, USA. ⁴University of California San Diego, San Diego, CA, USA

07 Athletic Status Predicts Neuropsychological Performance in College Students

Eric McConathey, Cara Levitch, Eileen Moran, Molly Zimmerman

Fordham University, New York, NY, USA

08 Preinjury Psychiatric History is Associated with an Increased Quantity of Post-Concussion Symptoms

Michael W. Williams¹, Justin E. Karr², Alyssa M. Day¹, Tobiloba Quadri¹, Gracie L. Gelnett³, Amanda C. Glueck⁴, Dong "Dan" Y. Han⁴

¹University of Houston, Houston, TX, USA. ²University of Kentucky, Lexington, KY, USA. ³Georgetown College, Georgetown, KY, USA. ⁴University of Kentucky College of Medicine, Lexington, KY, USA

09 Neuropsychologists' Perceptions of Chronic Traumatic Encephalopathy (CTE)

Robert J Kanser^{1,2}, Tracy K Kretzmer¹, Jason R Soble³, Robin A Hanks^{4,5}

¹James A. Haley VA, Tampa, FL, USA. ²University of North Carolina, Chapel Hill, NC, USA. ³University of Illinois at Chicago, Chicago, IL, USA. ⁴Rehabilitation Institute of Michigan, Detroit, MI, USA. ⁵Wayne State University, Detroit, MI, USA

10 Psychosocial Moderators of the Relationship Between Concussion History and Neurobehavioral Function Among Former National Football League (NFL) Players

Alyssa M. Leitzke¹, Zachary Y. Kerr², Samuel R. Walton², Avinash Chandran^{2,3}, J. D. DeFreese², Rebekah Mannix⁴, Ruben J. Echemendia^{5,6}, William P. Meehan III⁴, Kevin M. Guskiewicz², Michael A. McCrea¹, Benjamin L. Brett¹

¹Medical College of Wisconsin, Milwaukee, Wisconsin, USA. ²University of North Carolina at Chapel Hill, Chapel Hill, North Carolina, USA. ³Datalys Center for Sports Injury Research and Prevention, Indianapolis, Indiana, USA. ⁴Boston Children's Hospital, Boston, Massachusetts, USA. ⁵Psychological and Neurobehavioral Associates, Inc., State College, Pennsylvania, USA. ⁶University of Missouri-Kansas City, Kansas City, Missouri, USA

11 The Silent Epidemic: Head Injury in Women due to Domestic Violence seen in Pennsylvania Trauma Centers

Diana R. Priestley, Kristine C. Dell, Jason Staph, Frank G. Hillary

The Pennsylvania State University, State College, PA, USA

12 Depression, Anxiety, and Mild Traumatic Brain Injury History are Associated with Cannabis Use, but not Alcohol Use, in Varsity Athletes

Alyssia Wilson, Kristina Gicas, Jared Cherry, Magdalena Wojtowicz

York University, Toronto, ON, Canada

13 Altered Brain Functional Connectivity in Female Athletes over the Course of a Season of Collision or Contact Sports

Alyssia Wilson, Dale Stevens, Lauren Sergio, Magdalena Wojtowicz

York University, Toronto, ON, Canada

14 Long-term neuroimaging correlates of mild traumatic brain injury and repetitive head injuries: A systematic review

Holly V Echlin, Alma Rahimi, Magdalena Wojtowicz

York University, Toronto, ON, Canada

15 No Association Between Age Started and Total Years Played on Neuropsychological Functioning Among Older Retired Professional Football Players

Jeff Schaffert¹, Nyaz Didehbani¹, Christian LoBue¹, John Hart^{1,2}, Michael Motes², Heidi Rossetti¹, Laura Lacritz¹, Munro Cullum¹

¹UT Southwestern Medical Center, Dallas, TX, USA. ²UT Dallas, Dallas, TX, USA

16 Multi-Domain Assessment of Concussion Recovery: A Scoping Review

Danielle C DuPlessis^{1,2}, Emily Lam^{1,2}, Lucy Xie², Nick Reed¹, F. Virginia Wright^{2,1}, Elaine Biddiss^{2,1}, Shannon Scratch^{2,1}

¹University of Toronto, Toronto, Ontario, Canada. ²Holland Bloorview Kids Rehabilitation Hospital, Toronto, Ontario, Canada

17 College Athlete Ceiling and Floor Effects on The Immediate Post-concussion and Cognitive Testing (ImPACT) and Sport Concussion Assessment Tool 5th Edition (SCAT-5)

Andrew DaCosta^{1,2}, Dominique Ghirardi¹, Kaci Gorres¹, Anthony LoGalbo¹

¹Florida Institute of Technology, Melbourne, Florida, USA. ²South Texas Veterans Health Care System, San Antonio, Texas, USA

18 The Neuropsychological Function in Chronic Traumatic Brain Injury Patients With and Without Post-Error Slowing

Bei-Yi Su^{1,2}, Pei-Chin Wu³, Yu-Chi Liao⁴, Willy Chou^{5,6}, Jinn-Rung Kuo^{7,8}, Ming-Tsung Chuang⁹, Nai-Wen Guo^{10,11}

¹Department of Psychology, Chung-Shan Medical University, Taichung, Taiwan. ²Room of Clinical Psychology, Chung Shan Medical University Hospital, Taichung, Taiwan. ³Department of Psychiatry, Kaohsiung Chang Gung Memorial Hospital and Chang Gung University College of Medicine, Kaohsiung, Taiwan. ⁴Department of psychology, College of Medical and Health Science, Asia University, Taichung, Taiwan. ⁵Department of Physical Medicine and Rehabilitation, Chi-Mei Medical Center, Tainan, Taiwan. ⁶Department of Recreation and Health Care Management, Chia Nan University of Pharmacy and Science, Tainan, Taiwan. ⁷Department of Neurosurgery, Chi-Mei Medical Center, Tainan, Taiwan. ⁸Department of Biotechnology, Southern Taiwan University of Science and Technology, Tainan, Taiwan. ⁹Department of Diagnostic Radiology, National Cheng Kung University Hospital, Tainan, Taiwan. ¹⁰Institute of Behavioral Medicine, College of Medicine, National Cheng Kung University, Tainan, Taiwan. ¹¹Institute of Allied Health Sciences, College of Medicine, National Cheng Kung University, Tainan, Taiwan

19 Difference Between History of Single vs Multiple TBI on Rate of Cognitive Decline in Clinically Normal Older Adults

Jessica Bove¹, Breton M Asken², Joel H Kramer², Russell M Bauer¹

¹University of Florida, Gainesville, FL, USA. ²University of California at San Francisco (UCSF), San Francisco, CA, USA

20 Does Frequency of Baseline Testing Influence Concussion Diagnostic Decision-Making Among College Athletes?

Andrew Crane, Analise Roccaforte, Anthony LoGalbo

Florida Institute of Technology, Melbourne, Florida, USA

21 Postconcussive Cognitive Complaints is Associated with Anterior Cerebral Blood Flow Changes in Veterans with Mild TBI Histories

Erin D. Ozturk¹, Alexandra L. Clark², Katherine J. Bangen³, Scott F. Sorg³, Victoria C. Merritt³, Shayna J. Fink³, McKenna S. Sakamoto³, Mark W. Bondi³, Lisa Delano-Wood³

¹San Diego State University/University of California, San Diego, CA, USA. ²UT Austin, Austin, Texas, USA. ³VA San Diego Healthcare System, San Diego, CA, USA

22 PTSD Symptom Severity and Decreased Right Hemispheric Fronto-Limbic White Matter Integrity Predict Greater Migraine-Related Pain and Disability in Combat-Exposed Veterans With and Without Mild TBI

Alex D Rodriguez¹, Brianna M Akers², Sarah Bottari², Erin Trifilio³, Damon G Lamb³, John B Williamson³

¹Malcom Randall VA Medical Center, Gainesville, Florida, USA. ²University of Florida, Gainesville, Florida, USA.

³University of Florida/Malcom Randall VA Medical Center, Gainesville, Florida, USA

23 The Relationship Between T-Tau and Amyloid Beta in Blood and Subacute Outcome from Mild Traumatic Brain Injury

Justin E Karr¹, Grant L Iverson^{2,3,4,5}, Kathleen C West¹, Jussi P Posti^{6,7}, Henrik Zetterberg^{8,9,10,11}, Kaj Blennow^{8,9}, Teemu M Luoto^{12,13}

¹University of Kentucky, Lexington, KY, USA. ²Harvard Medical School, Boston, MA, USA. ³Spaulding Rehabilitation Hospital, Charlestown, MA, USA. ⁴Spaulding Research Institute, Charlestown, MA, USA. ⁵Home Base, A Red Sox Foundation and Massachusetts General Hospital Program, Charlestown, MA, USA. ⁶Turku University Hospital, Turku, Finland. ⁷University of Turku, Turku, Finland. ⁸University of Gothenburg, Mölndal, Sweden. ⁹Sahlgrenska University Hospital, Mölndal, Sweden. ¹⁰University College London, London, United Kingdom. ¹¹Hong Kong Center for Neurodegenerative Diseases, Hong Kong, China. ¹²Tampere University Hospital, Tampere, Finland. ¹³Tampere University, Tampere, Finland

24 Sports-Related Concussion Results in Brain Network Changes in Collegiate Athletes

Julia M Laing^{1,2}, Heather C Bouchard^{1,2}, Elliot Carlson³, Lonnie Albers³, Arthur Maerlender¹, Julie Tuttle³, Kate Higgins³, Amanda I Rodriguez^{2,4}, Mark Mayer³, Douglas H Schultz^{1,2}, Maital Neta^{1,2}, Cary R Savage^{1,2}

¹Department of Psychology, University of Nebraska-Lincoln, Lincoln, NE, USA. ²Center for Brain, Biology and Behavior, University of Nebraska-Lincoln, Lincoln, NE, USA. ³Athletic Medicine, Department of Athletics, University of Nebraska-Lincoln, Lincoln, NE, USA. ⁴Department of Special Education and Communication Disorders, University of Nebraska-Lincoln, Lincoln, NE, USA

25 Apolipoprotein E (APOE) ε4 Genotype Impacts Prospective Memory Performance in Veterans with Histories of Mild Traumatic Brain Injury

Scott F Sorg^{1,2}, Erin D Ozturk³, McKenna S Sakamoto¹, Alexandra L Clark⁴, Shayna J Fink¹, Adan Ton Loy¹, Karen L Hanson^{1,2}, Dawn M Schiehser^{1,2}, Lisa M Delano-Wood^{1,2}, Victoria C Merritt^{1,2}

¹VA San Diego, San Diego, CA, USA. ²UC San Diego, San Diego, CA, USA. ³SDSU/UCSD JDP, San Diego, CA, USA. ⁴University of Texas Austin, Austin, TX, USA

26 Disruptions within and between network connectivity involving the default mode network following acute sports-related concussion

Heather C Bouchard^{1,2}, Julia M Laing^{1,2}, Douglas H Schultz^{1,2}, Elliot Carlson³, Lonnie Albers³, Julie Tuttle³, Kate Higgins³, Amanda I Rodriguez^{1,4}, Arthur Maerlender¹, Mark Mayer³, Maital Neta^{1,2}, Cary R Savage^{1,2}

¹Center for Brain, Biology and Behavior, University of Nebraska-Lincoln, Lincoln, NE, USA. ²Department of Psychology, University of Nebraska-Lincoln, Lincoln, NE, USA. ³Athletic Medicine, Department of Athletics, University of Nebraska-Lincoln, Lincoln, NE, USA. ⁴Department of Special Education and Communication Disorders, University of Nebraska-Lincoln, Lincoln, NE, USA

27 Total Learning on the California Verbal Learning Test, Second Edition as a Performance Validity Measure in Retired Football Players

Isabel D Munoz^{1,2}, Daniel W Lopez-Hernandez¹, Bethany A Nordberg¹, Alexis Bueno¹, Maya Farchi³, Jill Razani³, Robert C Cantu⁴, Kevin M Guskiewicz⁵, Daniel F Kelly⁶, Ronald Swerdloff¹, Christina Wang¹, David J Hardy⁷, Ellen Woo⁸, Pavel Y Litvin¹, Tara L Victor⁹, Kyle B Boone¹, Matthew J Wright¹

¹The Lundquist Institute, Torrance, CA, USA. ²California State University, Northridge, Northridge, CA, USA. ³California State University Northridge, Northridge, CA, USA. ⁴Boston University School of Medicine, Boston, MA, USA. ⁵Center for the Study of Retired Athletes, University of North Carolina, Chapel Hill, NC, USA. ⁶John Wayne Cancer Institute at Saint John's Health Center, Santa Monica, CA, USA. ⁷Loyola Marymount University, Los Angeles, CA, USA. ⁸California State University, Fresno, Fresno, CA, USA. ⁹California State University, Dominguez Hills, Carson, CA, USA

28 An Initial Study of the Examination of Public Knowledge of Symptoms and Sequelae of Traumatic Brain Injury

Taylor E Zurlinden¹, D. Erik Everhart², Amy Gencarelli², Anne Sorrell², Anya Savransky²

¹Wilford Hall Ambulatory Surgical Center, San Antonio, TX, USA. ²East Carolina University, Greenville, NC, USA

29 "The brain not working as it had in the past": A Qualitative Study of the Cognitive Challenges following Sport-Related Concussion

Cole J. Kennedy, Madeline M. Doucette, Mauricio A. Garcia-Barrera

University of Victoria, Victoria, BC, Canada

30 Loss of Consciousness Interacts with Psychiatric Diagnoses to Reduce Objective Memory Performance in Military Veterans with Mild TBI Histories

36 Pre-Injury Sleep as a Moderator of Post-Acute Cognitive Functioning and Post-Concussive Symptoms in Children and Adolescents with Mild Traumatic Brain Injury.

Caroline Luszawski¹, Erin D Bigler², Ann Bacevice^{3,4}, Barbara A Bangert⁵, Daniel M Cohen^{6,7}, Nicholas A Zumberge⁷, Leslie K Mihalov^{6,7}, H Gerry Taylor^{6,7}, Keith Owen Yeates^{1,8}

¹Department of Psychology and Alberta Children's Hospital Research Institute, University of Calgary., Calgary, Alberta, Canada. ²Departments of Psychology and Neuroscience, Brigham Young University, Provo, Utah, USA. ³Department of Pediatrics, Case Western Reserve University, Cleveland, Ohio, USA. ⁴Rainbow Babies and Children's Hospital, Cleveland, Ohio, USA. ⁵Departments of Radiology and Neurosurgery, University Hospitals Health System, Cleveland, Ohio, USA. ⁶Department of Pediatrics, The Ohio State University, Columbus, Ohio, USA. ⁷Nationwide Children's Hospital, Columbus, Ohio, USA. ⁸Departments of Pediatrics and Clinical Neurosciences and Hotchkiss Brain Institute, University of Calgary, Calgary, Alberta, Canada

37 R2Play Development: Fostering User-Driven Technology that Supports Return-to-Play Decision-Making Following Pediatric Concussion

Danielle C DuPlessis^{1,2}, Emily Lam¹, Fanny Hotze², Stephanie McFarland², F Virginia Wright^{2,1}, Nick Reed¹, Elaine Biddiss^{2,1}, Shannon Scratch^{2,1}

¹University of Toronto, Toronto, Ontario, Canada. ²Holland Bloorview Kids Rehabilitation Hospital, Toronto, Ontario, Canada

38 Prolonged Symptom Duration in Pediatric mTBI: Exploring Differences in Inflammation and Kynurenine Pathway Metabolites

Morgan E Nitta¹, James B Hoelzle¹, Jonathan Savitz², Timothy B Meier³

¹Marquette University, Milwaukee, WI, USA. ²Laureate Institute for Brain Research, Tulsa, OK, USA. ³Medical College of Wisconsin, Milwaukee, WI, USA

39 Psychometric Support for the Acute Concussion Evaluation in an Emergency Department Setting

Ashley R Strong¹, Erin R Stolz¹, Mary Godfrey¹, Gerard A Gioia^{1,2}, Roger Zemek^{3,4,5}

¹Children's National, Washington, DC, USA. ²George Washington University School of Medicine & Health Sciences, Washington, DC, USA. ³Children's Hospital of Eastern Ontario, Ottawa, Canada. ⁴University of Ottawa, Ottawa, Canada. ⁵Pediatric Emergency Research Canada (PERC) network, Ottawa, Canada

40 Clinical Variables and Neuropsychological Performance in Pediatric Concussion Recovery

Karlie Pollock^{1,2}, Mary Iampietro¹, Fairuz N. Mohammed¹, Matthew Grady¹, Christina Master¹

¹The Children's Hospital of Philadelphia, Philadelphia, PA, USA. ²Haverford College, Haverford, PA, USA

41 Changes in Cognitive Networks as a Result of Sport-Related Concussion

Grace J Goodwin¹, Samantha E John¹, Bradley Donohue¹, Jennifer Keene¹, Hana C Kuwabara¹, Julia Maietta¹, Thomas F Kinsora², Staci R Ross², Daniel N Allen¹

¹University of Nevada, Las Vegas, Las Vegas, NV, USA. ²Center for Applied Neuroscience, Las Vegas, NV, USA

42 The Role of Suspect Performance Validity in Evaluation of Pediatric Concussion

Kathryn A Ritchie^{1,2}, James B Hoelzle², Michelle Loman³

¹Kennedy Krieger Institute, Baltimore, Maryland, USA. ²Marquette University, Milwaukee, Wisconsin, USA. ³Medical College of Wisconsin, Milwaukee, Wisconsin, USA

43 Response to Injury Following Adolescent Concussion: An Orthopedic Injury Control Design

Tahnae T Allen^{1,2}, Linda Hynan¹, Cheryl H Silver¹, Shane Miller³, Nyaz Didehbani¹, Munro Cullum¹

¹UT Southwestern Medical Center, Dallas, TX, USA. ²Cook Children's Health System, Fort Worth, TX, USA. ³Texas Scottish Rite Hospital, Dallas, TX, USA

44 Self-Reported Symptoms are Associated with Neuropsychological Performance During Acute Recovery from mTBI in Adolescents but not School-Aged Children

Tristin Nyman^{1,2,3}, Danielle Ploetz², Kelly Gettig⁴, Kelly E Jones²

¹Texas A&M University, College Station, Texas, USA. ²Kennedy Krieger Institute, Baltimore, Maryland, USA. ³The Johns Hopkins University School of Medicine, Baltimore, Maryland, USA. ⁴Dell Children's Medical Center, Austin, Texas, USA

45 Psychometric Examination of a Self-Efficacy Scale for Football Coaches

Gerard A. Gioia¹, Jay Myers², Troy Furutani³, Nathan Murata³, Darian Brothers³, Ross Ohio³, Erik Swartz²

¹Children's National Hospital, Rockville, MD, USA. ²University of Massachusetts Lowell, Lowell, MA, USA. ³University of Hawaii, Honolulu, HI, USA

46 Defining 12-Week Recovery Trajectories Among Children and Adolescents Presenting with Acute Concussion in the Emergency Department

Dean R Allen¹, Gerard Gioia¹, Roger Zemek², Pediatric Emergency Research Canada (PERC)³

¹Children's National Hospital, Washington, DC, USA. ²University of Ottawa, Ottawa, Canada. ³Alberta Children's Hospital, Alberta, Canada

47 Parents' Perceptions and Experience After Their Young Child Sustains Mild Traumatic Brain Injury: A Qualitative Approach

Alice Gagné

Université de Montréal, Montréal, Québec, Canada. Centre hospitalier universitaire Sainte-Justine, Montréal, Québec, Canada

48 Association between sleep and the quality of parent-child interaction after early mild traumatic brain injury (mTBI)

Jacqueline Nguyen Phuong Trieu^{1,2,3}, Catherine Landry-Roy^{1,2}, Lara-Kim Hyunh^{1,2}, Gabrielle Lalonde^{1,2}, Élizabel Leblanc^{1,2}, Annie Bernier^{1,2}, Miriam Beauchamp^{1,2}

¹University of Montreal, Montreal, Quebec, Canada. ²CHU Sainte-Justine Research Center, Montreal, Quebec, Canada. ³CHU Sainte-Justine, Montreal, Quebec, Canada

49 The Association Between Self-Reported Psychiatric Symptoms and Performance Validity Test Failure across Brain Injury Severity Levels

Alana G Sabelli, Christopher Abeare, Laszlo Erdodi

University of Windsor, Windsor, ON, Canada

50 The Relationship of Psychopathic Traits to Engagement in Criminal Behavior and Performance on Tasks Assessing Impulsivity

Olivia N. Revels-Strother¹, Eric Zimak², Julie A. Suhr¹

¹Ohio University, Athens, OH, USA. ²University of New Mexico, Albuquerque, NM, USA

51 MMPI-2-RF Response Bias Scale Predicting Failure on the Victoria Symptom Validity Test in a Sample of Adults Referred for Psychoeducational Testing

Marissa Huber, Anthony Robinson, Matthew Calamia

Louisiana State University, Baton Rouge, LA, USA

52 The Comparative Utility of the Response Bias Scale (RBS) Among MMPI-2-RF Symptom Validity Scales in Predicting TOMM Performance

Abigail Baird¹, Jesse Smotherman², Nicholas Wisdom³

¹Texas Woman's University, Denton, Texas, USA. ²Ochsner Health, New Orleans, Louisiana, USA. ³Neurocognitive Specialty Group, Houston, Texas, USA

53 Examination of Expanded COWAT Performance in Cognitively Normal or Impaired Older Adult Veterans

Ronald G Okolichany, Clinton H Gauss, Prasad R Padala, Scott R Mooney

Central Arkansas Veterans Healthcare System, North Little Rock, AR, USA

54 Classification Accuracy of the Dot Counting Test Across Verbal and Visual Memory Impairment Severity in a Mixed Neuropsychiatric Sample

Amanda M. Wisinger, Humza Khan, Ka Yin Phoebe Tse, Matthew S. Phillips, Brian M. Cerny, Gabriel P. Ovsiew, Zachary J. Resch, Woojin Song, Neil H. Pliskin, Jason R. Soble, Kyle J. Jennette

The University of Illinois at Chicago, Chicago, IL, USA

55 Detecting Global Over-Reporters and Defensive Responders with the Cognitive Bias Scale in the Personality Assessment Inventory

Owen J Gaasedelen¹, Lauren P Blake², Sarah E Taylor³, Michael Basso⁴, Douglas M Whiteside³

¹Independent Practice, Albuquerque, NM, USA. ²VA New Mexico, Albuquerque, NM, USA. ³University of Minnesota Department of Rehabilitation Medicine, Minneapolis, MN, USA. ⁴Mayo Clinic Department of Psychiatry and Psychology, Rochester, MN, USA

56 Validating a Shortened Version of the Structured Inventory of Malingered Symptomology Within a Veteran Based Epilepsy Monitoring Unit

Savanna M. Tierney, Jonathan M. Grabyan

Michael E. DeBakey VA Medical Center, Houston, Texas, USA

57 Creating Training Opportunities in Cross-Cultural Forensic Neuropsychology

Diomaris E Safi¹, Monica Nguyen²

¹UCLA, Los Angeles, CA, USA. ²Riverside County Public Defender's Office, Riverside, CA, USA

58 Classification Accuracy of Two Memory-Based Embedded Performance Validity Tests for Detecting Performance Invalidity Among Adult Attention-Deficit/Hyperactivity Disorder Referrals

Matthew S Phillips, Nicole M Durkin, Amanda M Wisinger, Gabriel P Ovsiew, Kyle J Jennette, Zachary J Resch, Woojin Song, Neil H Pliskin, Jason R Soble

University of Illinois College of Medicine, Chicago, Illinois, USA

59 Effects of Pre-Existing Stroke on Acute Hospital Outcomes for Older Adults Admitted with Traumatic Brain Injury and Orthopedic Injury

Samantha M Vervoordt¹, Mohamad K Hamze², Kristine C Dell¹, Frank G Hillary¹

¹Penn State University, University Park, PA, USA. ²Larner College of Medicine, Burlington, VT, USA

60 Preoperative Cognition Predicts Clinical Stroke and Mortality After Cardiac Surgery

Stephanie M Simone¹, Catherine C Price², Thomas F Floyd³, Molly Fanning⁴, Steven R Messé⁴, Deborah A. G. Drabick¹, Tania Giovannetti¹

¹Temple University, Philadelphia, PA, USA. ²University of Florida, Gainesville, FL, USA. ³University of Texas Southwestern, Dallas, TX, USA. ⁴University of Pennsylvania, Philadelphia, PA, USA

61 Cerebral Small Vessel Disease Following Preeclampsia with Severe Features

Kyla G. Cummings^{1,2}, Kay Igwe¹, Natalie A. Bello¹, Ruth Landau¹, Whitney Booker¹, Christiane Hale¹, Nicole Pimentel Soler¹, Joncarlos Berroa¹, Dejanía Cotton-Samuel¹, Jennifer J. Manly¹, Adam M. Brickman¹, Eliza C. Miller¹

¹Columbia University, New York, NY, USA. ²Michigan State University, East Lansing, MI, USA

62 Neuropsychological Effects and Outcomes of Music Interventions Following Stroke

Diana C. Hereld^{1,2}, Kaz Katseanes¹

¹Pepperdine University, Los Angeles, California, USA. ²University of California, Los Angeles, California, USA

63 Auditory-Orthographic Lexical Processing in Aphasia using Voxel-based Lesion Symptom Mapping

Jacqueline B Cudia¹, William L Gross², Anna Freiberg¹, Diane Book¹, Jeffrey R Binder¹, Sara B Pillay¹

¹Medical College of Wisconsin - Department of Neurology, Milwaukee, WI, USA. ²Medical College of Wisconsin - Department of Anesthesiology & Neurology, Milwaukee, WI, USA

64 Improved Detection of Neurobehavioral Deficits Following Acute Stroke Screening

Jessica L. Saurman, David W. Loring, Felicia C. Goldstein, Fadi B. Nahab, Janice Convoy-Hellmann, Karima Benameur, Shilpa Krishnan, A.M. Barrett

Emory University School of Medicine, Atlanta, GA, USA

65 Neuroplasticity and Neuropsychological Performance after Early Bilateral Occipital Hemorrhage

Cecily Herby¹, James E Harness², Corrine Guilday¹, Maxamilliam A Obolsky³, Anureet Gill¹, Jacqueline P Reis⁴, Frederick W Bylsma⁴

¹The Chicago School of Professional Psychology, Chicago, IL, USA. ²Midwestern University, Downers Grove, IL, USA. ³Roosevelt University, Chicago, IL, USA. ⁴Neuropsychological Services PC, Chicago, IL, USA

Live Program Open

9:55 - 10:00am Friday, 4th February, 2022

***LIVE* Plenary D: (Birch Memorial Lecture) Side-lining Bias: A Flexible Social Cognition Approach to Social Bias Reduction --- Presenter: Lasana T. Harris**

10:00 - 10:55am Friday, 4th February, 2022



Lasana T. Harris, PhD

Professor of Social Neuroscience

Department of Experimental Psychology

University College London

Plenary D: Birch Memorial Lecture: Side-lining Bias: A Flexible Social Cognition Approach to Social Bias Reduction

Instructional Level: Intermediate

Abstract & Learning Objectives:

Current approaches to reducing social biases focus on the individual, rather than social context that communicates and reinforces bias. This individual-level focus has resulted in the implicit bias training cottage industry hinged on making people aware of their biases in the hope that they can engage regulatory mechanisms to prevent such biases resulting discriminatory behavior. Social neuroscience research demonstrates that social biases result from social learning processes: brain regions governing social learning and emotion support social bias expression. This literature also hints at an alternate approach that targets stereotypes—cognitive constructs—rather than affect. I argue

that social bias can be side-lined if alternate cognitive constructs can be triggered rather than stereotypes during social interactions. This shifting focus relies on the inherent flexibility of social cognition, as well as social roles and goals within the social context, keeping the focus on the individual, but empowering the social context to dictate whether the stereotype gets triggered or not. I conclude by discussing the implications of this novel approach for bias training and social bias reduction.

Upon conclusion of this course, learners will be able to:

- Explain why social biases occur
- Critique existing approaches to social bias training
- Utilize social neuroscience evidence to employ alternative approaches to social bias reduction

Speaker Biography:

Dr. Lasana T. Harris completed his undergraduate education at Howard University, USA, and received post-graduate training at Princeton University, USA. He has held positions at New York University, USA, Duke University, USA, and Leiden University, the Netherlands, before coming to UCL. Dr. Harris is a social neuroscientist who takes an interdisciplinary approach to understand human behaviour. His research explores the neural correlates of person perception, prejudice, dehumanization, anthropomorphism, social learning, social emotions, empathy, and punishment. This research addresses questions such as: How do we see people as less than human, and non-human objects as human beings? How do we modulate affective responses to people? How do we decide right from wrong?

5 min. break

10:55 - 11:00am Friday, 4th February, 2022

***LIVE* Plenary E: Neurological complications of COVID-19: exploring syndromes, mechanisms and management --- Presenter: Mark Ellul**

11:00am - 12:00pm Friday, 4th February, 2022



Mark Ellul, PhD

Clinical Lecturer in Neurology

University of Liverpool

Plenary E: Neurological Complications of COVID-19: Exploring Syndromes, Mechanisms and Management

Instructional Level: Intermediate

Abstract & Learning Objectives:

Pandemic viruses throughout history have been associated with neurological sequelae, including influenza viruses and flaviviruses such as Zika and West Nile virus. Other coronaviruses, including those associated with the severe acute respiratory syndrome and Middle East respiratory syndrome epidemics, were also associated with reports of central or peripheral nervous system syndromes. COVID-19 is a multisystem disorder with an extremely wide spectrum of symptomatology and severity. In the early stages of the pandemic, numerous reports emerged from around the World of diverse neurological manifestations of the virus, although without clarity of case definitions it was challenging to distinguish true manifestations of SARS-CoV-2 infection from the complications of critical illness or co-incident infection. To address these questions we developed a UK-wide surveillance study of neurological and psychiatric complications of COVID-19, which is providing insights into the risk factors, characteristics and outcome of patients who developed neurological complications, specifically identifying severe encephalopathy and cerebrovascular disease as the most frequent syndromes. Ongoing work is shedding light on possible pathogenic mechanisms underlying these manifestations, including the direct effects of viral infection, parainfectious or postinfectious immune-mediated disease. This session will reflect this rapidly evolving area of clinical research, discussing the current understanding of the acute neurological complications of COVID-19, reviewing the possible pathogenic mechanisms of these syndromes, their outcome and clinical management.

Upon conclusion of this course, learners will be able to:

- Recognize potential neurological complications of COVID-19

- Discuss the issues and challenges in establishing the role of viral infection in neurological syndromes
- Apply this knowledge in future interactions with patients and engagement with the scientific literature

Speaker Biography:

Dr. Mark Ellul is a Clinical Lecturer in Neurology at the University of Liverpool. He has worked extensively on inflammatory and infectious disorders of the nervous system, including on the diagnosis and management of encephalitis and neurological complications of Zika virus. Since the onset of the COVID pandemic he has been part of the team leading the UK wide surveillance study of neurological and psychiatric complications of COVID-19 (COVID-19 Clinical Neuroscience Study (COVID-CNS)).

Coffee Break

12:00 - 12:30pm Friday, 4th February, 2022

Poster Session 09: Adult Assessment | Career

12:00 - 1:00pm Friday, 4th February, 2022

01 Stroop Color and Word Test Normative Update: What to Know to Administer and Interpret

Brian Syzdek

Stoelting, Wood Dale, IL, USA

02 The Rey Auditory Verbal Learning Test: Cross Validation of Mayo Normative Studies (MNS) Demographically Corrected Norms

David W. Loring¹, Jessica L. Saurman¹, Samantha E. John², Stephen C. Bowden³, James J. Lah¹, Felicia C. Goldstein¹

¹Emory University, Atlanta, Georgia, USA. ²University of Nevada, Las Vegas, Las Vegas, Nevada, USA. ³University of Melbourne, Melbourne, Victoria, Australia

03 Determining Appropriate MoCA Scores for Black Patients

Lauren Ratcliffe¹, Taylor McDonald¹, John Sass^{2,3}

¹Mercer University, Atlanta, GA, USA. ²Cognitive Rehabilitation of Georgia, Atlanta, GA, USA. ³Restore Health Group, Roswell, GA, USA

04 Is the MoCA Culturally Biased?

Taylor McDonald¹, Lauren Ratcliffe¹, John Sass^{2,3}

¹Mercer University, Atlanta, GA, USA. ²Cognitive Rehabilitation of Georgia, Decatur, GA, USA. ³Restore Health Group, Roswell, GA, USA

05 Concurrent Validity of Performance and Symptom Validity Groups is Impacted by Discordance of Criterion and Invalidity Operationalization

Jonathan P Fillauer, Troy A Webber, Nicholas J Pastorek, Brian I Miller

Michael E. DeBakey VA Medical Center, Houston, Texas, USA

06 Comparison of Test-Retest Reliability of Baseline Concussion Symptom Scores on the SCAT5 vs. SCAT3

Henri Y Lu, Rachel T Fouladi

Simon Fraser University, Burnaby, BC, Canada

07 Base Rates of Digit Span Forward ≤ 6 Performance Validity Failures in a Nationally Representative Mild, Moderate, and Severe Alzheimer's Dementia Sample

Scott Mooney¹, Trevor Durey², Sydney Skaggs¹, Deven Dyer³, Ronald Okolichany¹, Haley Aaron¹, A'mie Preston¹, Prasad Padala¹

¹Central Arkansas VA, Little Rock, AR, USA. ²Harding University, Little Rock, AR, USA. ³University of Central Arkansas, Conway, AR, USA

08 The Clinical Utility of the OPIE-3 as a Measure of FSIQ Across the Psychosis Spectrum

Danielle Kaplan^{1,2}, Joanna M. Fiszdon³, Godfrey D. Pearlson^{1,3}, Jimmy Choi¹

¹Hartford HealthCare/Institute of Living, Hartford, CT, USA. ²University of Hartford, West Hartford, CT, USA. ³Yale University School of Medicine, New Haven, CT, USA

09 Confirmatory Factor Analysis of the Somatic Complaints Scale on the Personality Assessment Inventory

Mary U Simons¹, Brooke Magnus², Morgan Nitta¹, James Hoelzle¹

¹Marquette University, Milwaukee, WI, USA. ²Boston College, Boston, MA, USA

10 Item Response Analysis of the Somatic Complaints Scale on the Personality Assessment Inventory

Mary Simons¹, Brooke Magnus², Morgan Nitta¹, James Hoelzle¹

¹Marquette University, Milwaukee, WI, USA. ²Boston College, Boston, MA, USA

11 The Impact of Visual Memory Impairment on Victoria Symptom Validity Test Performance: A Known-Groups Analysis

Jane K Stocks, Adam B DeBoer, Karen S Basurto, Gabriel P Ovsiew, Kyle J Jennette, Zachary J Resch, Woojin Song, Neil H Pliskin, Jason R Soble

University of Illinois College of Medicine, Chicago, IL, USA

12 Rasch Analysis of the Toronto Alexithymia Scale–20 in Healthy Adults and Adults with Acquired Brain Injury

Sarah D Patrick, Lisa J Rapport, Gavin Sanders, Lauren J Radigan

Wayne State University, Detroit, MI, USA

13 Category Switching: Not the Perfect Pear

Brette Burns, Julia Borsatto, Lori Buchanan

University of Windsor, Windsor, ON, Canada

14 Examining the Minnesota Multiphasic Personality Inventory-2 Restructured Form (MMPI-2-RF) Symptom Validity Indicators and Performance Validity in a Neuropsychiatric Sample

Cari D. Cohen^{1,2}, Nicole M. Durkin¹, Kyle J. Jennette¹, Zachary J. Resch¹, Gabriel P. Ovsiew¹, Woojin Song¹, Neil H. Pliskin¹, Jason R. Soble¹

¹University of Illinois College of Medicine Department of Psychiatry, Chicago, IL, USA. ²Rosalind Franklin University of Medicine and Science, North Chicago, IL, USA

15 Factor Structure of the Memory for Intentions Test in Samples of Older Adults and People with HIV Disease

Kelli L. Sullivan^{1,2}, Matthew W. Gallagher¹, Romola S. Bucks³, Michael Weinborn³, Steven Paul Woods^{1,3}

¹University of Houston, Houston, TX, USA. ²Alpert Medical School of Brown University, Providence, RI, USA.

³University of Western Australia, Crawley, WA, Australia

16 The Visuospatial Dot Learning and Memory Task: Validation Pilot Study of Visual Memory Screening Items Added to the MoCA for Patients with Stroke.

LEIA C VOS^{1,2,3}, Ciaran Considine^{4,2}, Elisabeth Harfmann^{5,2}, Hillary A Parker^{6,2}, Kathleen Patterson^{2,3}

¹Spectrum Health, Grand Rapids, MI, USA. ²Zablocki VA Medical Center, Milwaukee, WI, USA. ³Medical College of Wisconsin, Department of Psychiatry and Behavioral Medicine, Milwaukee, WI, USA. ⁴Vanderbilt University Medical Center, Department of Neurology, Nashville, TN, USA. ⁵Carl T Hayden VA Medical Center, Department of Psychology, Phoenix, AZ, USA. ⁶Mount Carmel Health System, Department of Neurology, Columbus, OH, USA

17 A Comparison of the Stroop Color and Word Test Scores for Detecting Invalid Neuropsychological Test Performance Among Adult ADHD Referrals

Humza Khan, Amanda M. Wisinger, Gabriel P. Ovsiew, Kyle J. Jennette J. Jennette, Woojin Song, Neil H. Pliskin, Jason R. Soble, Zachary J. Resch

University of Illinois at Chicago College of Medicine, Department of Psychiatry, Chicago, IL, USA

18 Validating the V-8: An Initial Validation of the Eight-Variable Psychiatric Screener (V-8)

Kassandra Korcsog, Brandon Zuccato, Robin Howard, Christopher Abeare

University of Windsor, Windsor, Ontario, Canada

19 Examining the Clinical Utility of the Controlled Oral Word Association Test (COWAT)

Maria Dekhtyar, Janelle Foret, Sarah Simon, Marie Caillaud, Jason Shumake, Andreana Haley

University of Texas at Austin, Austin, Tx, USA

20 Accuracy of the Rey-15 Item Test Recall and Recognition Trials for Detecting Performance Invalidity in Adult Attention-Deficit/Hyperactivity Disorder Referrals

Hanaan Bing-Canar^{1,2}, Gabriel P. Ovsiew¹, Karen S. Basurto¹, Kyle J. Jennette¹, Zachary J. Resch¹, Woojin Song¹, Neil H. Pliskin¹, Jason R. Soble¹

¹Department of Psychiatry, University of Illinois at Chicago College of Medicine, Chicago, Illinois, USA. ²Department of Psychology, University of Illinois at Chicago, Chicago, Illinois, USA

21 MMSE Scores, Neuropsychological Test Battery Scores and Level of Effort in a Non-Compensation-Seeking Outpatient Clinical Sample

Carlton S. Gass¹, Nicole M. Whitt², Brooke Patten¹

¹Tallahassee Memorial Healthcare, Tallahassee, FL, USA. ²Private Practice, Orlando, FL, USA

22 Predictive Utility of the MMSE in Screening for Neuropsychological Testing

Carlton S Gass¹, Brooke Patton¹, Nicole M. Whitt²

¹Tallahassee Memorial Healthcare, Tallahassee, FL, USA. ²Premier Psychological Services, Orlando, FL, USA

23 Is Speed a Confounding Factor in NIH Toolbox Dimensional Change Card Sort Performance?

David W. Loring¹, Kelsey C. Hewitt¹, Sean Wickham¹, Stephen C. Bowden²

¹Emory University, Atlanta, Georgia, USA. ²University of Melbourne, Melbourne, Victoria, Australia

24 Embedded Measures of Attention: CVLT-II List A Trial 1 and List B Predict Performance on WAIS-IV Digit Span Forward in a Sample of U.S. Veterans

Savannah G Rose¹, Ryan C Thompson¹, Robert E Wickham¹, Harriet K Zeiner²

¹Palo Alto University, Palo Alto, CA, USA. ²VA Palo Alto, Palo Alto, CA, USA

25 Daily Assessment of Independent Living and Executive Skills (DAILIES) Protocol: Preliminary Validation

Stacey L Brothers, Justin R Davis, Yana Suchy

University of Utah, Salt Lake City, UT, USA

26 Measurement Invariance of the Neurobehavioral Symptom Inventory (NSI) in Military Veterans with a History of Traumatic Brain Injury (TBI): An Examination of Biological Sex and Race/Ethnicity

Victoria C Merritt^{1,2}, Mark H. C. Lai³, Catherine Chanfreau-Coffinier⁴, McKenna S. Sakamoto¹, Lisa Delano-Wood^{1,2}

¹VA San Diego Healthcare System, San Diego, CA, USA. ²UC San Diego, Department of Psychiatry, La Jolla, CA, USA. ³University of Southern California, Los Angeles, CA, USA. ⁴VA Informatics and Computing Infrastructure (VINCI), VA Salt Lake City Health Care System, Salt Lake City, UT, USA

27 A Case Study Demonstrating the Use of Trails-X, a Novel Executive Functioning Measure, in a Patient with Imaging-Confirmed Frontal Lobe Atrophy.

Pamela D Payne, MA^{1,2}, Michael Kolessar, Psy.D., ABPP-CN¹, Terrie Price, Ph.D., ABPP¹

¹Ability KC, Kansas City, MO, USA. ²Kansas City University, School of Medicine and Biosciences, Kansas City, MO, USA

28 A Comparison of the Factor Structure of the Personality Assessment Inventory Full and Short Forms in a Neurological Population

Alanna Coady¹, Megan Udala¹, Lisa Ohlhauser², McKenzie Campbell¹, Damian Leitner¹, Jason Scott¹, Lydia Wood¹, Jamie Piercy¹, Erwin Concepcion³, Maya Libben¹, Harry Miller¹

¹University of British Columbia, Kelowna, BC, Canada. ²University of Victoria, Victoria, BC, Canada. ³Minnesota Department of Human Services, Minnesota, MN, USA

29 The role of education and spontaneous speech on cognition in middle-aged adults

Katherine Chia^{1,2}, John Gunstad³, Jet M.J. Vonk⁴, Adam M. Brickman⁴, Jennifer J. Manly⁴, Rachel Ostrand²

¹Florida State University, Tallahassee, FL, USA. ²IBM Research, Yorktown Heights, NY, USA. ³Kent State University, Kent, Ohio, USA. ⁴Columbia University, New York, New York, USA

30 Lexical-Semantic Properties of Spontaneous Speech Production are Predictive of Memory in a Multi-Ethnic Cohort

Rachel Ostrand¹, Katherine Chia^{2,1}, John Gunstad³, Jet Vonk⁴, Jennifer J. Manly⁴, Adam M. Brickman⁴

¹IBM Research, Yorktown Heights, NY, USA. ²Florida State University, Tallahassee, FL, USA. ³Kent State University, Kent, OH, USA. ⁴Columbia University, New York, NY, USA

32 Level of Creativity Within Occupation May Be More Strongly Related to Crystallized Intelligence Skills Than Fluid Ones.

Maria Pleshkevich^{1,2}, Yian Gu¹, Yunglin Gazes¹, Jayant Sakhardande¹, Yaakov Stern¹

¹Columbia University, New York, NY, USA. ²New York University, New York, NY, USA

33 Reliable change scores of the Multicultural Neuropsychological Scale

Maximiliano Folmer¹, Alberto Luis Fernandez^{1,2}, Gabriel Enrique Jáuregui Arriondo¹, Marcelo Vaiman^{1,2}, Gazul María Rotela Leite¹

¹Universidad Católica de Córdoba, Córdoba, Córdoba, Argentina. ²Universidad Nacional de Córdoba, Córdoba, Córdoba, Argentina

34 The Mnemonic Similarity Task (MST) and Traditional Memory Measures: How Similar are They?

Adrianna M Ratajska, Francesca V Lopez, Lauren Kenney, Rebecca O'Connell, Alyssa Ray, Dawn Bowers

University of Florida, Gainesville, FL, USA

35 Modeling Item Bias Removes Racial Group Differences on Word List Learning

William F Goette, Jeff Schaffert, Anne Carlew, Heidi Rossetti, Laura Lacritz, Munro Cullum

University of Texas Southwestern Medical Center, Dallas, Tx, USA

36 Clustering and Switching Predicts Executive Function not Memory Scores

Sarah N Simon, Maria Dekhtyar, Janelle T Foret, Marie Caillaud, Andreana P Haley

University of Texas at Austin, Austin, Texas, USA

37 Symptom Under-Reporting on the Beck Anxiety Inventory in an Outpatient Memory Disorders Clinic

Carlton S Gass, Alanna O'Maille, Brooke Patten

Tallahassee Memorial Healthcare, Tallahassee, FL, USA

38 Cognitive Practice Effects within a Spanish-Speaking Sample; Results from SOL-INCA.

Mark Sanderson-Cimino^{1,2}, Wassim Tarraf³, Linda Gallo⁴, Ariana Stickel⁵, Hector M. Gonzalez⁶, William S. Kremen⁷

¹SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²University Of Chicago Medicine, Chicago, IL, USA. ³Wayne State University, Detroit, MI, USA. ⁴San Diego State University, San Diego, CA, USA. ⁵VA Greater Los Angeles Healthcare System, Los Angeles, CA, USA. ⁶University of California San Diego, San Diego, CA, USA. ⁷Center for Behavior Genetics of Aging, San Diego, CA, USA

39 Evaluating the Efficacy of the Test de Vocabulario en Imagenes Peabody (TVIP) in Estimating Premorbid Intellectual Functioning in Monolingual Spanish Speaking Adults

Karen S. Basurto¹, Liliam R. Castillo², Amanda M. Wisinger³, Nicole M. Durkin¹, Zachary J. Resch¹, Jason R. Soble¹, Kyle J. Jennette¹

¹University of Illinois at Chicago, Chicago, IL, USA. ²John Jay College of Criminal Justice, New York, NY, USA. ³The Chicago School of Professional Psychology, Chicago, IL, USA

40 Exploratory Association of a Novel English-Spanish Fluency Ratio Score and Neuropsychological Assessment Administered in Spanish

Karen S. Basurto¹, Amanda M. Wisinger², Nicole M. Durkin¹, Kyle J. Jennette¹

¹University of Illinois at Chicago, Chicago, IL, USA. ²The Chicago School of Professional Psychology, Chicago, IL, USA

41 Computerized Cerebral Assessment: An Effective Cognitive Screening Device

Frank R Sparadeo^{1,2}, Andrew Karp³

¹Salve Regina University, Newport, Rhode Island, USA. ²Sparadeo & Associates, West Warwick, Rhode Island, USA. ³William James College, Newton, Mass, USA

42 Rasch Analysis of the Affect Intensity Measure in Acquired Brain Injury and Neurologically-Healthy Adults

Gavin Sanders, Sarah D Patrick, Lisa J Rapport, Lauren J Radigan

Wayne State University, Detroit, MI, USA

43 Verbal fluency tests as embedded measures of cognitive performance validity in a veteran sample.

Deborah Radmanesh, Kathleen Bain

Veterans Affairs, San Antonio, TX, USA

44 Pre-Surgical Memory Performance Predicts BMI Change in Adults with Severe Obesity Following Roux-Y Gastric Bypass

Jason DeFelice¹, Alexandria O'Neal¹, Sarah Bottari¹, John Williamson^{1,2,3}, John Gunstad⁴, Ronald Cohen¹

¹University of Florida, Gainesville, FL, USA. ²Brain Rehabilitation Research Center, Malcom Randall VA Medical Center, Gainesville, FL, USA. ³Center for OCD, Anxiety, and Related Disorders, Department of Psychiatry, University of Florida, Gainesville, FL, USA. ⁴Kent State University, Kent, OH, USA

45 Much ado About Norming: Trail Making Test Performance Outcome for African Americans Differs Between Normative Systems

Nanako A Hawley, Jasmin Pizer, Melissa Myers, Benjamin D Hill

University of South Alabama, Mobile, Alabama, USA

46 Association of Memory Scores to Word Choice Performance

Saranya S Patel, Jeff Schaffert, Anne Carlew, Heidi Rossetti, Munro Cullum, Laura Lacritz

UT Southwestern Medical Center, Dallas, Texas, USA

47 Profiles of Neurocognitive Functioning in Adults with a History of Depression

Marissa C Roth¹, Lauren M Henry¹, Robin Weersing², Judy Garber¹, Bruce E Compas¹

¹Vanderbilt University, Nashville, TN, USA. ²San Diego State University, San Diego, CA, USA

48 Examination of a Single-Item Prospective Memory Task in the Cognitive Assessment of Older Adults

Brooke F. Beech, Maureen Schmitter-Edgecombe

Washington State University, Pullman, WA, USA

49 How Easily can Adults Evade Detection when Feigning Symptoms During Teleneuropsychological Evaluations?

Allyson G Harrison, Irene T Armstrong, Beth Pollock

Queen's University, Kingston, Ontario, Canada

50 A Pilot Study of Remote App-Based Assessment of Cognition in Aging and Pre-Clinical Alzheimer's Disease

Dawn Mechanic-Hamilton, Kimberly Halberstadter, Sean Lydon, Alexander Miller, David Wolk

University of Pennsylvania, Philadelphia, PA, USA

51 Visuospatial Memory Eye-Tracking Test (VisMET): Demographic Predictors and Cognitive Correlates

Kayci L. Vickers¹, Cecelia M. Manzanares¹, Salman Seyedi², Rafi U. Haque¹, Alvince L. Pongos¹, Gari D Clifford^{1,2}, Felicia C. Goldstein¹, Allan I. Levey¹

¹Emory University, Atlanta, GA, USA. ²Georgia Institute of Technology, Atlanta, GA, USA

52 Eye-tracking based Attention Inflexibility Indices to Valence-Neutral and Hedonic Stimuli Predict Executive Functioning Deficits.

Dia N Nath¹, Caitlyn J Tytler², Maria Kovacs³, Ilya Yaroslavsky²

¹University Hospitals Cleveland Medical Center, Cleveland, OH, USA. ²Cleveland State University, Cleveland, OH, USA. ³University of Pittsburgh School of Medicine, Pittsburgh, PA, USA

53 Validation of The Mobile Toolbox: A Remote Assessment for Measuring Cognitive Change Across the Lifespan

Cindy J. Nowinski, Sarah Pila, Saki Amagai, Zahra Hosseinian, Miriam Novack, Erica LeForte, Aaron J Kaat, Richard Gershon

Northwestern University, Chicago, IL, USA

54 Dialectical Tensions in Clinical Neuropsychology Supervision – A Narrative Review and Adapted Model

Nicole Weisemberg¹, Mark A Coates^{1,2}

¹University of Ottawa, Ottawa, Ontario, Canada. ²Centre for Interpersonal Relationships, Ottawa, Ontario, Canada

55 Digital Methods of Delivering Education and Training in Neuropsychology

Ryan Van Patten^{1,2}, John A Bellone³, Leslie Gaynor⁴, Taylor R Greif⁵, Cady Block⁶

¹Brown University, Providence, RI, USA. ²Providence VA Medical Center, Providence, RI, USA. ³Perspectives Psychological Services, Fullerton, CA, USA. ⁴University of Florida, Gainesville, FL, USA. ⁵Michigan Medicine, Ann Arbor, MI, USA. ⁶Emory University School of Medicine, Atlanta, GA, USA

56 Where are the International Psychology Graduates in Neuropsychology?

Sonia Syed Rehman

Fielding Graduate University, Santa Barbara, California, USA

57 Was the COVID-19 Pandemic Associated with Gender Disparities in Authorship of Manuscripts Submitted to Clinical Neuropsychology Journals?

Michelle A Babicz^{1,2}, Anastasia Matchanova¹, Robiann Broomfield³, Libby A DesRuisseaux⁴, Michelle M Gereau⁴, Stacy L Brothers⁴, Lauren Radigan³, Erik Porter⁵, Gregory P Lee⁵, Lisa J Rapport³, Yana Suchy⁴, Keith O Yeates^{6,7,8}, Steven P Woods¹

¹University of Houston, Houston, TX, USA. ²James A. Haley Veterans' Hospital, Tampa, FL, USA. ³Wayne State University, Detroit, MI, USA. ⁴University of Utah, Salt Lake City, UT, USA. ⁵Barrow Neurological Institute, Phoenix, AZ, USA. ⁶University of Calgary, Alberta, Canada. ⁷Alberta Children's Hospital Research Institute, Alberta, Canada. ⁸Hotchkiss Brain Institute, Alberta, Canada

58 Barriers to Ordering Neuropsychological Services, According to Medical Residents

Hilary A. Clark¹, Ryley Ewy¹, Natalie A. Babich², Phillip K. Martin², Matthew Macaluso³, Ryan W. Schroeder²

¹Wichita State University, Wichita, KS, USA. ²University of Kansas School of Medicine - Wichita, Wichita, KS, USA. ³University of Alabama at Birmingham, Birmingham, AL, USA

59 Implementing Evidence-Based Treatment for Neurocognitive Conditions: A Model for Training, Supervision, and Maintenance

Shari L Wade¹, Kelly A McNally², Shannon E Scratch³, Brianna L Maggard¹, Brendan Lam³

¹Cincinnati Children's Hospital, Cincinnati, Ohio, USA. ²Nationwide Children's Hospital, Columbus, Ohio, USA. ³Holland Bloorview Kids Rehabilitation Hospital, Toronto, Canada

60 What Do Medical Residents See as the Benefits of Neuropsychological Services?

Hilary A. Clark¹, Natalie A. Babich², Ryley Ewy¹, Ryan W. Schroeder², Matthew Macaluso³, Phillip K. Martin²

¹Wichita State University, Wichita, KS, USA. ²University of Kansas School of Medicine - Wichita, Wichita, KS, USA.

³University of Alabama at Birmingham, Birmingham, AL, USA

61 The Impact of the COVID-19 Pandemic on Training Expectations at Internship Programs Offering Specialization in Neuropsychology

Yelena Markiv, Ryan C Thompson, Haig V Pilavjian, Rachel Murley, Ashlynn Steinbaugh, Bradley R Forbes, Julius Flowers, Rayna B Hirst

Palo Alto University, Palo Alto, CA, USA

31 If A Then X, If B Then Y: DKEFS Color-Word Interference Condition 4 and WAIS-IV Symbol Search as Measures of Conditional Reasoning in a Sample of U.S. Veterans

Ryan C Thompson¹, Savannah G Rose¹, Robert E Wickham¹, Harriet K Zeiner²

¹Palo Alto University, Palo Alto, CA, USA. ²VA Palo Alto Health Care System, Palo Alto, CA, USA

***LIVE* Invited Symposium 3: Environmental Pollution and the Brain -- Chair: Beate Ritz Presenters: Zeyan Liew, Marc G. Weisskopf, Jennifer Weuve**

12:30 - 1:55pm Friday, 4th February, 2022



Chair: Beate Ritz, MD, PhD

Professor

Departments of Epidemiology, Environmental Health, and

Center for Occupational and Environmental Health

School of Public Health, and Neurology

School of Medicine

University of California, Los Angeles

Invited Symposium 3: Environmental Pollution and the Brain

Abstract & Learning Objectives:

The role of air pollution exposures in brain development and autism. - Studies linked pre- and peri-natal air pollution exposures to child brain development particularly autism. Here, Dr. Ritz will briefly review different sources of air pollution and exposure assessment methods, and then introduce novel metabolomic approaches to assess biologic mechanisms related to brain health. She will discuss novel efforts at identifying biologic mechanisms for autism and air pollution effects related to metabolic perturbations in the blood of pregnant women and their neonates. These insights may contribute to a better understanding of how environmental risk factor affect neurodevelopment – particularly autism - and encourage public health efforts to reduce air pollution worldwide.

Human exposure to per- and polyfluoroalkyl substances (PFAS) and the effects on neurodevelopment. - Per-and polyfluoroalkyl substances (PFAS) are a group of chemicals used to make fluoropolymer coatings and products that resist heat, oil, stains, grease, and water. PFAS are also known as the “forever chemicals” because they do not break down in the environment and can remain in our bodies for years. In this seminar, Dr. Liew will introduce human exposures to PFAS and present a series of studies that investigated whether in-utero exposures to PFAS affected multiple neurological disorders and brain function in childhood.

The role of metal exposures in cognitive decline and dementia in old age. - Metals can have neurotoxic properties and there are several lines of evidence suggesting such exposure adversely affects cognitive function, in particular of lead. While there is suspicion that such exposure could also contribute to clinical dementia, there is less evidence for this. Dr. Weisskopf will discuss the role of metal exposures in later life cognitive function and dementia, and the state of the evidence.

Exposure to air pollution and dementia risk: the evidence we have and the evidence we need - Exposure to air pollution has been hypothesized to increase dementia risk through two major compelling mechanisms, a direct neurotoxic mechanism and a mechanism grounded in air pollution's vascular effects. If air pollution is such a cause, then policy and technology levers could be used to reduce the risks of a large swath of the population. Over the past decade, published evidence has rapidly amassed on air pollution's relation to dementia. The usefulness of much of this research is limited by common challenges in measuring dementia. Dr. Weuve's presentation will address the findings that have amassed, characterize the challenges this line of research faces, and propose lines of research that will clarify and extend this research to be more inferentially compelling and relevant to policy interventions.

Upon conclusion of this course, learners will be able to:

- Introduce what are per-and polyfluoroalkyl substances (PFAS), air pollution and metals
- Introduce how populations are exposed to PFAS, air pollution and metals
- Learn about the developmental toxicity of fetal exposure to PFAS and air pollution and links to neurodevelopmental outcomes in childhood as well as the role of air pollution and metals on neurodegeneration leading to dementia

Instructional Level: Intermediate

Chair Biography:

Dr. Beate Ritz is a Professor of Epidemiology at the Fielding School of Public Health at UCLA and holds co-appointments in Environmental Health Sciences and Neurology at UCLA and a Center for Occupational and Environmental Health faculty. She served on the US EPA Clean Air Scientific Advisory Committee (CASAC) to evaluate the science related to carbon monoxide standards and as a CA Governor appointed member on the Scientific Advisory Board for the California State Air Toxics Assessment program. For her work she received the Robert Zweig Clean Air Award from the South Coast Air Quality Management District in 2007. Dr. Ritz made the Thompson-Reuters highly-cited authors list in 2018 and she served as President of the International Society for Environmental Epidemiology (ISEE) in 2018 and 2019. Her epidemiologic research on air pollution and the human brain include traffic related and air toxics effects on neurodevelopment and autism. She currently is directing adverse birth outcome research for a satellite-based modelling effort funded by NASA known as the MAIA (Multi-Angle Imaging of Aerosols) project to image speciate particulate matter worldwide. Her lab also conducts metabolomics studies using maternal and neonatal blood to investigate air pollution effects in pregnancy and early life.



Zeyan Liew, PhD, MPH

Dr. Zeyan Liew is an Assistant Professor of Epidemiology in the Department of Environmental Health Sciences at the Yale School of Public Health, and the Yale Center for Perinatal, Pediatric & Environmental Epidemiology. He received his Ph.D. in Epidemiology from the University of California, Los Angeles (UCLA), and his M.P.H in Environmental Health Sciences also at UCLA. Dr. Liew studies how environmental exposures that occur during critical time windows of development affects diseases and health risk throughout our life course. Dr. Liew is currently directing an NIEHS-funded K99/R00 program that investigates prenatal biomarker measures of perfluoroalkyl substances (PFAS) and longitudinal assessments of neurodevelopmental outcomes in offspring from ages 5 to 16 in the Danish National Birth Cohort.



Marc G. Weisskopf, PhD, ScD

Dr. Marc G. Weisskopf is the Cecil K. and Philip Drinker Professor of Environmental Epidemiology and Physiology at the Harvard T.H. Chan School of Public Health in the departments of Environmental Health and Epidemiology, and Director of the Harvard TH Chan NIEHS Center for Environmental Health. Dr. Weisskopf received his Ph.D. in Neuroscience from the University of California, San Francisco, and his Sc.D. in Epidemiology from the Harvard T.H. Chan School of Public Health. He also spent two years as an Epidemic Intelligence Service Officer with the Centers for Disease Control and Prevention working on environmental health issues in the Wisconsin State Health Department. Dr. Weisskopf has led several research grants and conducted work on the role of metals in neurological health, including specifically cognitive function in older age. He is currently the PI of two R01's and leader of a Superfund project related to the question of metals exposure and cognitive function and dementia.



Jennifer Weuve, MPH, ScD

Dr. Jennifer Weuve is an associate professor of epidemiology at the Boston University School of Public Health. In her research, she seeks to identify causes of dementia, particularly environmental and social causes. She is the PI or co-investigator of several epidemiologic investigations of dementia, including 2 NIH-funded investigations of air pollution and dementia etiology. She is also the PI of the grant supporting the Methods in Longitudinal Dementia Research (MELODEM), an international initiative dedicated to identifying and disseminating methods for resolving methodologic challenges in dementia research. Dr. Weuve earned her masters in public health degree from the University of Minnesota and her doctoral degree in epidemiology from the Harvard TH Chan School of Public Health.

Symposium 11: Mentoring and Sponsorship from an Equity and Anti-Racist Framework: An Educational Paradigm Shift Employed by HNS Mentoring Program in 2020-2021

12:30 - 1:55pm Friday, 4th February, 2022

29 Mentoring and Sponsorship from an Equity and Anti-Racist Framework: An Educational Paradigm Shift Employed by HNS Mentoring Program in 2020-2021

Chair

Mirella Diaz-Santos

University of California, Los Angeles (UCLA Health), Los Angeles, USA

Discussant

Beatriz MacDonald Wer

Baylor College of Medicine, Houston, USA

953 Professional Development from an Equity and Anti-Racist Framework

Mirella Diaz-Santos

UCLA, Los Angeles, CA, USA

959 Mentorship from an Equity and Anti-Racist Framework

Beatriz MacDonald^{1,2}, Maria Grazia McFarland³

¹Department of Pediatrics, Section of Psychology, Baylor College of Medicine, Houston, Texas, USA. ²Texas Children's Hospital, Houston, Texas, USA. ³Barrow Neurological Institute, Phoenix, Arizona, USA

967 Sponsorship from an Equity and Anti-Racist Framework

Francesca Arias¹, Luis Efren Aguilar²

¹Hebrew SeniorLife, Boston, MA, USA. ²Alliant International University, San Francisco, CA, USA

Paper Session 14: mTBI

12:30 - 1:55pm Friday, 4th February, 2022

1 Longitudinal White Matter Microstructural Changes in Pediatric Mild Traumatic Brain Injury

Ashley L Ware¹, Keith Owen Yeates¹, Ayushi Shukla², Adrian Onicas³, Sunny Guo², Naomi Goodrich-Hunsaker⁴, Nishard Abdeen⁵, Miriam Beauchamp⁶, Christian Beaulieu⁷, Bruce Bjornson⁸, William Craig⁷, Mathieu Dehaes⁶, Sylvain Deschenes⁶, Quynh Doan⁸, Stephen B Freedman², Bradley G Goodyea¹, Jocelyn Gravel⁶, Andrée-Anne Ledoux⁹, Roger Zemek⁹, Catherine Lebel¹

¹University of Calgary, Calgary, AB, Canada. ²University of Calgary, Calgary, Canada. ³IMT School for Advanced Studies Lucca, Lucca, Italy. ⁴University of Utah, Salt Lake City, USA. ⁵University of Ottawa, Ottawa, Canada. ⁶University of Montreal, Montreal, Canada. ⁷University of Alberta, Edmonton, Canada. ⁸University of British Columbia, Vancouver, Canada. ⁹University of Ottawa, Ottawa, ON, Canada

2 Sex Differences in Postconcussive Symptom Reporting in Those with History of Concussion: Findings From the Federal Interagency Traumatic Brain Injury Research (FITBIR) Database.

Amy J Jak¹, Victoria Merritt¹, Michael Thomas², Cody Witten³, Amma Agyemang⁴, Mary Jo Pugh⁵

¹UC San Diego, San Diego, CA, USA. ²Colorado State University, Ft. Collins, CO, USA. ³Veterans Medical Research Foundation, San Diego, CA, USA. ⁴Virginia Commonwealth University, Richmond, VA, USA. ⁵University of Utah, Salt Lake City, UT, USA

3 Predictors of Recovery in Adolescents with Preexisting Mental Health Problems following Sports-Related Concussion

Chase Presley¹, William Goette¹, Kristin Wilmoth¹, Shane Miller^{1,2}, Kathleen Bell¹, Mathew Stokes¹, Nyaz Didehbani¹, Munro Cullum¹

¹University of Texas Southwestern Medical Center, Dallas, Texas, USA. ²Scottish Rite for Children, Dallas, Texas, USA

4 Trajectory of depression symptom severity and the influence of concussion history, health, and demographics over a 19-year period among former National Football League (NFL) players

Benjamin L Brett¹, Zachary Y Kerr², Samuel R Walton², Avinash Chandran³, J.D. DeFreese², Rebekah Mannix⁴, Ruben Echemendia⁵, William P Meehan⁴, Kevin M Guskiewicz², Michael A McCrea¹

¹Medical College of Wisconsin, Wauwatosa, WI, USA. ²University of North Carolina at Chapel Hill, Chapel Hill, NC, USA. ³Datalys Center for Sports Injury Research and Prevention, Indianapolis, IN, USA. ⁴Harvard Medical School, Boston, MA, USA. ⁵Psychological and Neurobehavioral Associate, State College, PA, USA

5 Sport-by-Sport Recovery Trajectories for NCAA Civilian Collegiate Athletes Following Concussion

Spencer W Liebel¹, Kathryn L Van Pelt², Thomas W McAllister³, Michael A McCrea⁴, Steven P Broglio⁵

¹University of Utah, Salt Lake City, Utah, USA. ²Synaptex LLC, Lexington, Kentucky, USA. ³Indiana University School of Medicine, Indianapolis, Indiana, USA. ⁴Medical College of Wisconsin, Milwaukee, Wisconsin, USA. ⁵University of Michigan, Ann Arbor, Michigan, USA

6 Cognitive profiles following sport-related concussion in high school athletes: Relationship to symptom reporting, complicated recovery, and change from baseline

Julia E Maietta¹, Hana C Kuwabara¹, Jennifer Keene¹, Staci R Ross², Thomas F Kinsora², Daniel N Allen¹

¹University of Nevada, Las Vegas, Las Vegas, NV, USA. ²Center for Applied Neuroscience, Las Vegas, NV, USA

Paper Session 15: Movement

12:30 - 1:55pm Friday, 4th February, 2022

1 Depressive symptoms predict memory decline in Essential Tremor

Jennifer R Miller, M.A.¹, Silvia Chapman, Ph.D.², Daniella I Hernandez, M.D.³, Keith Radler, B.A.⁴, Edward D. Huey, M.D.^{2,5,6}, Elan D. Louis, M.D., M.Sc.⁷, Stephanie Cosentino, Ph.D.²

¹Ferkauf Graduate School of Psychology, Yeshiva University, Bronx, NY, USA. ²Taub Institute for Research on Alzheimer's Disease and the Aging Brain, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ³Department of Neurology, University of Texas Southwestern, Dallas, TX, USA. ⁴Department of Neurology, University of Texas Southwestern, Dallas, New York, USA. ⁵Department of Neurology, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ⁶Department of Psychiatry, College of Physicians and Surgeons, Columbia University, New York, NY, USA. ⁷Department of Neurology, University of Texas Southwestern, New York, NY, USA

2 Examining the Relationship Between the Multiple Sclerosis Neuropsychological Screening Questionnaire (MSNQ) and Objective Neurocognitive Performance

Garrett A Thomas¹, Megan L Bradson¹, Kaitlin E Riegler¹, Dede U O'Shea², Peter A Arnett¹

¹Penn State University, University Park, PA, USA. ²Department of Psychiatry, Beth Israel Lahey Health, Boston, MA, USA

3 Cognitive Enrichment Moderates the Relationship Between Cognitive Dysfunction and Education Quality in Multiple Sclerosis

Jeremy G Grant¹, Lisa J Rapport¹, Rachel Darling², Brigid Waldron-Perrine³, Mark A Lumley¹, Keith E Whitfield⁴, Eva Bernitsas²

¹Department of Psychology, Wayne State University, Detroit, MI, USA. ²Department of Neurology, Wayne State University School of Medicine, Detroit, MI, USA. ³Department of Physical Medicine and Rehabilitation, University of Michigan, Ann Arbor, MI, USA. ⁴Department of Psychology, University of Nevada, Las Vegas, Las Vegas, NV, USA

4 Parkinson's Disease Side of Onset Predicts Sustained Attention Deficits and Motor Improvements After Attention Training

Courtney Aul¹, Shraddha B. Kinger², Terry D. Ellis³, Alice Cronin-Golomb², Joseph DeGutis^{1,4}

¹Boston Attention and Learning Laboratory (BALLAB), VA Boston Healthcare System, Boston, MA, USA. ²Department of Psychological and Brain Sciences, Boston University, Boston, MA, USA. ³Department of Physical Therapy and Athletic Training, Boston University, Boston, MA, USA. ⁴Department of Psychiatry, Harvard Medical School, Boston, MA, USA

5 Early Rapid Eye Movement Sleep Behavior Disorder Predicts Incident Cognitive Impairment in Individuals with De Novo Parkinson's Disease

Lauren E Kenney, Adrianna M Ratajska, Francesca V Lopez, Michael Marsiske, Dawn Bowers

University of Florida, Gainesville, FL, USA

6 Mild Cognitive Impairment in Presurgical Deep Brain Stimulation for Parkinson's Disease

Elizabeth R. Wallace, Suzanne C. Segerstrom, Craig G. van Horne, Frederick A. Schmitt, Lisa M. Koehl

University of Kentucky, Lexington, KY, USA

Paper Session 16: CVA

12:30 - 1:55pm Friday, 4th February, 2022

1 Social Cognition and Social-Emotional Outcomes Following Pediatric Stroke

Samantha J Feldman^{1,2}, Claire M Champigny^{1,2}, Nomazulu Dlamini², Peter B Dirks², Robyn Westmacott², Mary E Desrocher^{1,2}

¹York University, Toronto, ON, Canada. ²The Hospital for Sick Children, Toronto, ON, Canada

2 Neuropsychological Outcomes and Predictors in Young Children with Presumed vs. Acute Perinatal Stroke

Christine Mrakotsky^{1,2}, Julie Swanson¹, Michael J. Rivkin^{1,2}

¹Boston Children's Hospital, Boston, MA, USA. ²Harvard Medical School, Boston, MA, USA

3 Post-Stroke Cognitive and Motor Outcomes Predicted from Lesion Location and Lesion Network Mapping

Mark Bowren^{1,2}, Joel Bruss¹, Kenneth Manzel¹, Dylan Edwards^{3,4}, Charles Liu⁵, Maurizio Corbetta⁶, Daniel Tranel¹, Aaron Boes¹

¹University of Iowa, Iowa City, IA, USA. ²University of Florida, Gainesville, FL, USA. ³Moss Rehabilitation Institute, Elkins Park, PA, USA. ⁴Edith Cowan University, Joondalup, WA, Australia. ⁵University of Southern California, Los Angeles, CA, USA. ⁶University of Padua, Padova, PD, Italy

4 Asymptomatic Carotid Stenosis in the CREST-2 Trial – Baseline Cognitive Performance

Terina L Myers¹, Virginia G Wadley¹, Michael R Jones², Donald V Heck³, Wayne M Clark⁴, Randolph S Marshall⁵, Virginia J Howard¹, Jenifer H Voeks⁶, Jennifer J Manly⁵, Seemant Chaturvedi⁷, James F Meschia⁸, Brajesh K Lal⁷, Thomas G Brot⁸, George Howard¹, Ronald M Lazar¹

¹University of Alabama at Birmingham, Birmingham, AL, USA. ²Baptist Health, Lexington, KY, USA. ³Novant Health, Winston-Salem, NC, USA. ⁴Oregon Health & Science University, Portland, OR, USA. ⁵Columbia University, New York, NY, USA. ⁶MUSC, Charleston, SC, USA. ⁷University of Maryland Medical System, Baltimore, MD, USA. ⁸Mayo Clinic, Jacksonville, FL, USA

6 Regional Vulnerability of the Corpus Callosum in the Context of Cardiovascular Risk Factors

Anna M VandeBunte, Corrina Fonseca, Michelle You, Fanny Elahi, Joel H Kramer, Kaitlin B Casaletto

UCSF Memory and Aging Center, San Francisco, CA, USA

Poster Session 12: Medical | Anoxia | Infectious Diseases

1:00 - 1:55pm Friday, 4th February, 2022

1 Neuropsychological Outcomes of Children with HIE Who Received Targeted Temperature Management

Tyler Busch¹, Daphne Vrantidis¹, Timothy Horn¹, Rebekah Benkart¹, Nathalie Maitre², Yvonne Wu³, H. Gerry Taylor¹

¹Nationwide Children's Hospital, Columbus, OH, USA. ²Emory University, Atlanta, GA, USA. ³University of California, San Francisco Weill Institute for Neurosciences, San Francisco, CA, USA

2 Medical Outcomes Study HIV Health Survey (MOS-HIV) Subscales and Neurocognition Among Latinx People with HIV

Elizabeth A Breen^{1,2}, Maral N Aghvinian^{1,2}, Micah J Savin^{1,2}, Angela C Summers^{1,2}, Jordan T Stiver^{1,2}, Alexander W Slaughter², Denise S Oleas^{1,2}, Kaleigh E Fidaleo^{1,2}, Cara Crook^{1,2}, Monica G Rivera Mindt^{1,2}

¹Fordham University, New York, NY, USA. ²Icahn School of Medicine at Mount Sinai, New York, NY, USA

3 Psychological Functioning in Post-Acute Sequelae SARS-CoV-2 (PASC) or “Long COVID” Outpatients

Douglas M Whiteside¹, Savana Naini^{1,2}, Michael R Basso³, Erin Holker¹, Eric Waldron¹, James Porter¹, Sarah E Taylor¹

¹University of Minnesota, Minneapolis, MN, USA. ²University of St. Thomas, Minneapolis, MN, USA. ³Mayo Clinic, Rochester, MN, USA

4 Cognitive Diversity and Personal Experience of the COVID-19 Pandemic

Brittany M Lang¹, Nora Mattek², Sarah Gothard², Sam Lee^{3,1}, Adriana Hughes^{3,1}

¹Minneapolis VAHCS, Minneapolis, MN, USA. ²Oregon Health & Science University, Portland, Oregon, USA.

³University of Minnesota, Minneapolis, MN, USA

5 Language Fluency Difficulties are Distinct Deficits in Post Treatment Lyme Disease Syndrome

Marianne Gorlyn, Brian A Fallon, John G Keilp

Columbia University/NYSPI, New York, NY, USA

6 Emotional and Behavioral Functioning of Children in Tanzania with and without HIV

Emily Z Holding¹, Jonathan D Lichtenstein^{1,2}, Kelsey Grodner¹, Jennifer Amato^{1,2}, Abigail Fellows², Albert Magohe³, Chris Niemczak², Enica Massawe³, Ndeserua Moshi³, Paul Palumbo², Jay Buckey²

¹Dartmouth-Hitchcock Medical Center, Lebanon, NH, USA. ²Geisel School of Medicine at Dartmouth, Hanover, NH, USA. ³Muhimbili University of Health and Allied Sciences, Dar es Salaam, Tanzania, United Republic of

7 Cognitive and Functional Abilities in an Older Adult Veteran Before and After Contracting COVID-19

Ronald G Okolichany, Prasad R Padala, Scott R Mooney

Central Arkansas Veterans Healthcare System, North Little Rock, AR, USA

8 Literacy Mediates the Relationship Between Socioeconomic Status and Change in Intra-Individual Variability in a Sample of Older Adults with HIV

Stephanie E Punt, April Thames

University of California, Los Angeles, Los Angeles, CA, USA

9 Alexithymia is Associated with Different Patterns of Pro-Inflammatory and Vascular Biomarkers in People with HIV and/or Methamphetamine Dependence

Caitlin Wei-Ming Watson, Erin E Morgan, Ni Sun-Suslow, Scott Letendre, Mariam A Hussain, Robert K Heaton, Igor Grant, Jennifer E Iudicello

UC San Diego, San Diego, CA, USA

10 An Exploration of Neuropsychological Impairment in Patients with Subjective Cognitive Complaints Post COVID-19

Nicholas Grunden^{1,2}, Carmen García-Sánchez³, Marco Calabria⁴, Catalina Pons⁵, Juan Antonio Arroyo³, Beatriz Gómez-Anson³, Alberto Lleó³, Daniel Alcolea³, Roberto Belvís³, Noemí Morrollón³, Isabel Mur³, Virginia Pomar³, Pere Domingo³

¹Universitat Pompeu Fabra, Barcelona, Spain. ²Concordia University, Montreal, Canada. ³Hospital de la Santa Creu i Sant Pau, Barcelona, Spain. ⁴Universitat Oberta de Catalunya, Barcelona, Spain. ⁵Universitat Ramon Llull, Barcelona, Spain

11 Objectively-Measured Balance is Associated with Cognition in Older Adults Living with HIV

Jimmy Yu¹, Laura M. Campbell², Allison Py³, Anne Heaton³, Rebekah Taylor⁴, Mary Clare Masters⁵, Kristine M. Erlandson⁶, Erin Sundermann³, Drenna G. Waldrop⁴, David J. Moore³, David P. Salmon³, Ronald Ellis³, Albert M. Anderson⁴, Raeanne C. Moore³

¹University of California San Diego School of Medicine, La Jolla, CA, USA. ²SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³University of California San Diego, La Jolla, CA, USA. ⁴Emory University, Atlanta, GA, USA. ⁵Northwestern University Feinberg School of Medicine, Chicago, IL, USA. ⁶University of Colorado - Anschutz Medical Campus, Aurora, CO, USA

12 The Impact of COVID-19 and Depressive Symptoms on Subjective Cognition Among COVID-19+ Participants with Neurological Symptoms

Lillian Ham^{1,2}, Judith D Lobo^{3,2}, Ajay Bharti^{3,2}, Ben Gouaux^{3,2}, Thomas Marcotte^{3,2}, Igor Grant^{3,2,4}, David J Moore^{3,2}

¹SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ²HIV Neurobehavioral Research Program, San Diego, CA, USA. ³University of California, San Diego, San Diego, CA, USA. ⁴Center for Medicinal Cannabis Research, San Diego, CA, USA

13 Increased Cognitive Intra-Individual Variability in Adults with HIV-Associated Neurocognitive Disorder is not Reduced Following Targeted Cognitive Training

Victor A Del Bene, Pariya L Fazeli, Karli M Martin, Christopher Collette, Sahanaa Sribalusu, Kristen L Triebel, Jun Y Byun, Wei Li, David E Vance

University of Alabama at Birmingham, Birmingham, AL, USA

14 Utility of the HIV Dementia Scale (HDS) among Black and White Persons Living with HIV

Ilex Beltran-Najera, Jennifer L Thompson, Anastasia Matchanova, Steven Paul Woods

University of Houston, Houston, TX, USA

15 Neurocognitive Sequelae of COVID-19 in African American Adults

Felicia C. Goldstein¹, Ihab Hajjar¹, Aerica Summers², Alexander D. Truong¹, Melvin R. Echols³, Kelley R.W. Carroll², F. Eun-Hyung Lee¹, Jenny E. Han¹, Tiffany A. Walker¹

¹Emory University, Atlanta, Georgia, USA. ²Grady Memorial Hospital, Atlanta, Georgia, USA. ³Morehouse School of Medicine, Atlanta, Georgia, USA

16 Seeing Through the Brain Fog: The Heterogeneous Presentation of Post-Covid Encephalopathy

Timothy J Ainger

The University of Kentucky College of Medicine, Lexington, KY, USA

17 Validity, Reliability, and Acceptability of a Computerized Neurocognitive Battery for Youth Affected by Human Immunodeficiency Virus in Botswana

J. Cobb Scott¹, Amelia E Van Pelt¹, Tyler M Moore¹, Billy M Tsimba², Ruben C Gur¹, Mogomotsi Matshaba³, Knashawn H Morales¹, Ontibile Tshume³, Onkemetse Phoi³, Boitumelo Thuto³, Rinad S Beidas¹, Elizabeth D Lowenthal¹

¹University of Pennsylvania, Philadelphia, PA, USA. ²University of Botswana, Gaborone, Botswana. ³Botswana-Baylor Children's Centre of Excellence, Gaborone, Botswana

18 Knowledge About COVID-19 in Cognitively Impaired or Intact Older Adults

Felicia C. Goldstein, Jessica L. Saurman, Amy D. Rodriguez, Kayci L. Vickers

Emory University, Atlanta, Georgia, USA

19 Psychological Impact of Pandemic-Related Social Isolation: Exploring Psychiatric Risk and Resilience

Somi Lee^{1,2}, Vincent Koppelmans¹, Andrew J. Smith^{1,2}, Joseph U. Kim^{1,2}

¹University of Utah School of Medicine - Department of Psychiatry, Salt Lake City, UT, USA. ²Huntsman Mental Health Institute, Salt Lake City, UT, USA

20 Blood Biomarkers and Cognition in People with HIV

Vanessa A Guzman, MaryKay A Pavol, Adam M Brickman, Rebecca Schnall, Jose Gutierrez

Columbia University Irving Medical Center, New York, NY, USA

21 Effects of Loneliness and Wisdom on Physical and Mental Well-Being among People with and without HIV

Mariam A Hussain^{1,2,3}, Erin E Morgan^{1,2}, Robert K Heaton^{1,2}, Jennifer E Iudicello^{1,2}, Dilip V Jeste^{1,4,5}, David J Moore^{1,2}

¹Department of Psychiatry, University of California San Diego, La Jolla, CA, USA. ²HIV Neurobehavioral Research Program, University of California San Diego, San Diego, CA, USA. ³San Diego State University/University of

California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ⁴Sam and Rose Stein Institute for Research on Aging, University of California San Diego, La Jolla, CA, USA. ⁵Department of Neurosciences, University of California San Diego, La Jolla, CA, USA

22 Prospective Memory in Older Adults With HIV Disease and Subjective Cognitive Decline

Jennifer L Thompson¹, David P Sheppard², Anastasia Matchanova¹, Erin E Morgan³, Steven Paul Woods¹

¹University of Houston, Houston, TX, USA. ²Veterans Affairs Puget Sound Health Care System, Seattle, WA, USA.

³University of California San Diego, San Diego, CA, USA

23 Importance of Biopsychosocial Factors in Distinguishing Cognitive Profiles Among Virally-Suppressed People with HIV

Erin Sundermann¹, Raha Dastgheyb², David J Moore¹, Allison Buchholz², Mark W Bondi¹, Ronald Ellis¹, Scott Letendre¹, Robert Heaton¹, Leah H Rubin²

¹University of California, San Diego, San Diego, CA, USA. ²Johns Hopkins University, Baltimore, MD, USA

24 Physical Frailty and White Matter Abnormalities: The ARIC Study

Emma L Ducca¹, Gabriela T Gomez², Priya Palta³, Kevin Sullivan⁴, Clifford R Jack Jr.⁵, David S Knopman⁶, Rebecca F Gottesman^{2,7,8}, Jeremy Walston⁹, B. Gwen Windham¹⁰, Keenan A Walker^{2,11}

¹Department of Psychology, St. John's University, Queens, NY, USA. ²Department of Neurology, Johns Hopkins University School of Medicine, Baltimore, MD, USA. ³Department of Medicine, Columbia University Medical Center, New York, NY, USA. ⁴Department of Medicine, Division of Geriatrics, University of Mississippi Medical Center, Jackson, MS, USA. ⁵Department of Radiology, Mayo Clinic, Rochester, MN, USA. ⁶Department of Neurology, Mayo Clinic, Rochester, MN, USA. ⁷Stroke Branch, National Institute of Neurological Disorders and Stroke Intramural Research Program, NIH, Bethesda, MD, USA. ⁸Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, USA. ⁹Division of Geriatric Medicine and Gerontology, Center on Aging and Health, and Department of Epidemiology, Johns Hopkins University, Baltimore, MD, USA. ¹⁰Department of Medicine, Division of Geriatrics, University of Mississippi Medical Center, Jackson, MS, USA. ¹¹Laboratory of Behavioral Neuroscience, Intramural Research Program, National Institute on Aging, Baltimore, MD, USA

25 Longitudinal Effects of Stem Cell Transplant among Adults with Sickle Cell Disease: A Description and Comparison with Unaffected Siblings **Funding Statement: Funded in part by the NCI Contract HHSN261200800001E 75N91019D00024, Task Order No. 75N9109F00129.**

Emily J Carlson¹, Nour Al Ghriwati², Pam Wolters², Mary Anne Toledo-Tamula³, John Tisdale⁴, Courtney Fitzhugh⁴, Matt Hsieh⁴, Staci Martin²

¹American University, Washington, DC, USA. ²National Cancer Institute, Bethesda, MD, USA. ³Frederick National Laboratory for Cancer Research, Frederick, MD, USA. ⁴National Heart Lung and Blood Institute, Bethesda, MD, USA

26 Sepsis and Cognitive Research Considerations: A Narrative Review

Laura C Jones, Catherine Dion, Philip Efron, Catherine C Price

University of Florida, Gainesville, FL, USA

27 Neuropsychological Functioning in Gulf War Illness: A Longitudinal Case Study

Kathryn Price^{1,2}, Leah Orlinsky¹, Maxine H Kregel^{1,3}, Kimberly Sullivan², Clara G Zundel^{1,3}

¹VA Boston Healthcare System, Boston, MA, USA. ²Boston University School of Public Health, Boston, MA, USA.

³Boston University School of Medicine, Boston, MA, USA

28 Childhood hemispherectomy impacts social cognitive perception and judgment in adulthood

Mitchell R. Spezzaferr¹, Warren S. Brown¹, Lynn K. Paul²

¹Fuller Graduate School of Psychology, Pasadena, California, USA. ²California Institute of Technology, Pasadena, California, USA

29 Adult Emotional Intelligence Following Childhood Hemispherectomy

Krista J Cowan¹, Lynn K Paul², Warren S Brown¹

¹Fuller Graduate School of Psychology, Pasadena, California, USA. ²California Institute of Technology, Pasadena, California, USA

30 Does severe acute respiratory syndrome coronavirus 2 impact the functioning of the anterior attentional-intentional system? A pilot study.

Michał Harciarek¹, Aleksandra Mańkowska², John B. Williamson³, Kenneth M. Heilman³

¹University of Gdańsk, Gdańsk, Poland. ²University of Gdańsk, Gdańsk, USA. ³University of Florida, Gainesville, FL, USA

31 Cognitive and Psychiatric Functioning Among Cushing's Disease Patients in Remission

Mary A Fernandes¹, Sabrina Na², Adriana G Ioachimescu², Suzanne Penna², Erin B Tone¹

¹Georgia State University, Atlanta, GA, USA. ²Emory University, Atlanta, GA, USA

32 Persistent Pain and Risk of Cognitive Impairment Across Multiple Domains in Older Men

Tyler R Bell¹, Rosemary Toomey², Jeremy Elman¹, Michael Lyons², Matthew Panizzon¹, Rahul C. Pearce¹, Chandra A. Reynolds³, Mark Sanderson¹, Carol E. Franz¹, William S. Kremen¹

¹University of California San Diego, San Diego, CA, USA. ²Boston University, Boston, MA, USA. ³University of California Riverside, Riverside, CA, USA

33 Associations between Preoperative Neuropsychological and Psychological Functioning in Lung Transplant Candidates

Se Yun Kim, Melissa Marie Gardner, Samuel Justin Sinclair, Nirmal Sharma, Hilary J Goldberg, Mary-Ellen Meadows
Mass General Brigham, Boston, MA, USA

34 Association of Carotid Atherosclerosis with Cognition in Multi-Ethnic, Urban-Dweller Cohorts

Joshua A. Pesantes, Antonio J. Spagnolo Allende, Farid Khasiyev, Angelica M. Ortiz, Jennifer J. Manly, Adam M. Brickman, Nicole Schupf, Kay Igwe, Joncarlos Berroa, Andres Rivera, Jose Gutierrez Contreras
Columbia University Irving Medical Center, Manhattan, New York, USA

35 Verbal Memory, Attention, and Executive Function Performance in Individuals with Autoimmune Encephalitis Compared to People with Temporal Lobe Epilepsy and Healthy Controls

Elina Talis^{1,2}, J. Cara Pendergrass¹, Laurie Miller³, Christina Kay⁴

¹William James College, Newton, MA, USA. ²Rusk Rehabilitation at NYU Langone, New York, NY, USA.

³Neuropsychology Unit, Royal Prince Alfred Hospital and Faculty of Medicine and Health Sciences, University of Sydney, Sydney, Australia. ⁴Massachusetts General Hospital, Boston, MA, USA

36 Neuropsychological Assessment in Burn Centers: Special Considerations and a Recommended Battery for Burn Intensive Care Unit Settings

Michael L. Turman¹, Jessica S. Spat-Lemus², Heidi A. Bender²

¹Long Island University, Brooklyn Campus, Brooklyn, New York, USA. ²Weill Cornell Medical College, New York, New York, USA

37 Inhalation Injuries & Systemic Poisoning: Neuropathological Sequelae and Recommendations for Neuropsychological Assessment & Treatment

Michael L. Turman¹, Heidi A. Bender², Jessica S. Spat-Lemus²

¹Long Island University, Brooklyn Campus, Brooklyn, New York, USA. ²Weill Cornell Medical College, New York, New York, USA

38 Cognitive Functioning and Frailty in Cirrhosis

Shonna J Schneider^{1,2}, Dennis D Lin^{1,3}, Xueting Zhang^{1,3}, Carolina Frankini^{1,2}, Samuel H Sigal¹

¹Hepatology Department, Montefiore Medical Center, Bronx, NY, USA. ²Ferkauf Graduate School of Psychology, Yeshiva University, New York, NY, USA. ³Albert Einstein College of Medicine, Bronx, NY, USA

39 Measures of Condition Severity as Predictors of Attention and Executive Functioning in Youth with Spina Bifida

Allison del Castillo, Eva L Darow, Grayson N Holmbeck

Loyola University Chicago, Chicago, IL, USA

40 Neuropsychological Functioning in Preschoolers with Sickle Cell Disease

Diana L. Cohen, Brian Potter, Jennifer Longoria, Victoria Okhomina, Jeremie H. Estepp, Misham Henley, Guolian Kang, Jane S. Hankins, Andrew M. Heitzer

St. Jude Children's Research Hospital, Memphis, TN, USA

41 Processing Speed Mediates the Relationship Between White Matter Hyperintensity Volumes and Adaptive Functioning in Survivors of Childhood Cerebellar Tumor

Holly A Aleksonis¹, Lisa C Krishnamurthy^{2,1}, Tricia Z King¹

¹Georgia State University, Atlanta, GA, USA. ²Atlanta VA Medical Center, Decatur, GA, USA

42 Neuropsychological Functioning in Children with Congenital Heart Disease and Autism Spectrum Disorder

Lindsay Katz, Annette Richard, Elise Hodges, Kaitlin Oswald, Hanjoo Kim, Kimberley Heinrich

Michigan Medicine, Ann Arbor, Michigan, USA

43 Preliminary Findings of Neurodevelopmental Outcomes in Patients with Septic Shock of a Non-Neurologic Origin

Rebekah Benkart¹, Tyler Busch¹, Timothy Horn¹, Daphne Vrantsidis^{1,2}, Kerry Orton¹, Marlina Lovett^{1,2}, H. Gerry Taylor^{1,2}

¹Nationwide Children's Hospital, Columbus, OH, USA. ²The Ohio State University, Columbus, OH, USA

44 Adaptive Functioning in Children and Adolescents with Sickle Cell Disease

Ana Trpchevska¹, Jennifer Longoria¹, Victoria I. Okhomina², Guolian Kang², Jerlym Porter¹, Jane S. Hankins³, Andrew M. Heitzer¹

¹Department of Psychology, St. Jude Children's Research Hospital, Memphis, TN, USA. ²Department of Biostatistics, St. Jude Children's Research Hospital, Memphis, TN, USA. ³Department of Hematology, St. Jude Children's Research Hospital, Memphis, TN, USA

45 Mother Knows Best: How Accurate are Caregiver Estimates of Intellectual Ability for Individuals with a Neurologically Complex Condition?

Ashley Whitmarsh, Samuel Kroening, Abigail Zatkalik, Ryan Shanley, Elizabeth Pierpont

University of Minnesota, Minneapolis, MN, USA

46 Early Childhood Neurodevelopmental Outcomes and Trajectories in Congenital Heart Disease

Julia Chen, Lyla E Hampton, Alisa Burnham, Lauren Zimmerman, Abigail C Demianczyk

Children's Hospital of Philadelphia, Philadelphia, PA, USA

47 Transcranial Doppler Ultrasound Velocities and Neurocognitive Outcomes in Children with Sickle Cell Disease

Jennifer Longoria¹, Andrew Heitzer¹, Winfred Wang¹, Guolian Kang¹, Jeffrey Gossett¹, Kevin Krull¹, Allison King², Jane Schreiber³, Darcy Raches¹, Jeremie H Estep¹, Jane Hankins¹

¹St. Jude Children's Research Hospital, Memphis, TN, USA. ²Washington University, St. Louis, MO, USA. ³Children's Hospital of Philadelphia, Philadelphia, PA, USA

48 A Comparison of Neurodevelopmental Outcomes at 18 months of Children born Preterm to Children Diagnosed with Congenital Heart Disease

Samantha D Roberts^{1,2}, Magdalena Wojtowicz², Renée Sananes¹, Michael Seed¹, Steven P Miller¹, Vann Chau¹, Tricia S Williams¹

¹The Hospital for Sick Children, Toronto, Ontario, Canada. ²York University, Toronto, Ontario, Canada

49 The Need for Neuropsychological Administration Modifications for Children with Multi-Factorial Neurodevelopmental, Multisensory, and Motor Challenges

Sarah A Mandelbaum, Rachel Ribakove, Aviva Kohn, Rachel Concha, Noreen Raja, Jessica Spat-Lemus, Heidi A Bender, Melinda Cornwell

Weill Cornell Medicine Neurological Surgery, New York, NY, USA

50 Does a Brief Cognitive Screening Measure Predict Candidacy for Bariatric Surgery?

Stephanie E Punt^{1,2}, Hilary Hicks¹, Genna Losinski¹, Ashley Rhodes³, Jessica Hamilton³

¹University of Kansas, Lawrence, KS, USA. ²University of California, Los Angeles, Los Angeles, CA, USA. ³University of Kansas Medical Center, Kansas City, KS, USA

51 Case Series: Neuropsychological profiles in patients with pre-existing cognitive disorders who developed Covid-19 infection.

Katherine Reiter, Kamini Krishnan

Cleveland Clinic, Cleveland, OH, USA

52 Executive Functioning and Pain in Young Adults with Spina Bifida: The Mediating Role of Pain Catastrophizing

Diana M. Ohanian, Grayson N. Holmbeck

Loyola University Chicago, Chicago, IL, USA

53 The Effects of Obesity-Related Health Factors on Connectivity within Resting State Networks

Kailey G Langer¹, Keyanni J Johnson¹, John B Williamson¹, Joseph M Gullett¹, Eric C Porges¹, John Gunstad², Adam J Woods¹, Ronald A Cohen¹

¹University of Florida, Gainesville, FL, USA. ²Kent State University, Kent, Ohio, USA

28 Neuropsychiatric Effects of SARS-CoV-2 Infection

Chair

Kristine Lokken

UAB, Birmingham, USA

Discussant

Kristine Lokken

UAB, Birmingham, USA

822 Neurologic Manifestations of COVID-19

Shruti Agnihotri, Stephen Benesh, Kristine Lokken

UAB, Birmingham, AL, USA

825 Postmortem Neuropathologic Findings of COVID19 Infection

Michael Williams, Richard Powers, Rati Chkheidze

UAB, Birmingham, AL, USA

826 Neurological Sequelae of COVID-19 in the Deep South: Examining Racial Disparities within a Social Determinants of Health Framework

Roy Martin, John Osborne, Shruti Agnihotri, Kristine Lokken, Richard Kennedy

UAB, Birmingham, AL, USA

832 Neurocognitive Outcomes and Dementia Risk in Adults with COVID-19: Using HIV as a Model

Pariya Wheeler, David Vance

UAB, Birmingham, AL, USA

842 Reduced Long-COVID Brain Fog: Findings from a Pilot Study of Constraint-Induced Cognitive Therapy

Gitendra Uswatte, Edward Taub, Karlene Ball, Brandon Mitchell, Jason Blake, Staci McKay, Victor Mark, Shruti Agnihotri, Terika Miller, Elizabeth Pollard, Riward Iftekhar, Kristine Lokken

UAB, Birmingham, AL, USA

5 min. break

1:55 - 2:00pm Friday, 4th February, 2022

***LIVE* Plenary F: The Complexity of Racial Differences in Studies of Alzheimer Disease --- Presenter: John Carl Morris**

2:00 - 2:55pm Friday, 4th February, 2022



John C. Morris, MD

Friedman Distinguished Professor of Neurology

Knight Alzheimer Disease Research Center

Washington University School of Medicine

Plenary F: The Complexity of Racial Differences in Studies of Alzheimer Disease

Instructional Level: Intermediate

Abstract & Learning Objectives:

The vast majority of research volunteers in observational studies of Alzheimer disease (AD) are non-Hispanic white persons (Whites). It is unknown to what extent findings from studies of non-diverse cohorts apply to members of groups under-represented in research. By far the largest such group in St. Louis, Missouri, self-identifies as African American (Blacks). Many, but not all, studies find that Blacks are at greater risk for AD than Whites despite a lower risk for AD conferred by the $\epsilon 4$ allele of apolipoprotein E in Blacks. The factors that may contribute to differences regarding AD risk and expression in Blacks and Whites are being examined, in part, by comparing molecular biomarkers of AD in individuals who self-identify their race. In this context, race is considered as a social, rather than a biological, construct. Social determinants of health (e.g., inequities in the quality and length of education) must be evaluated as potential mediators of any observed racial differences. To date, molecular biomarker differences between Blacks and Whites largely have been limited to cerebrospinal fluid concentrations of tau protein, both total tau and tau phosphorylated at threonine 191, and of soluble TREM2. However, small sample sizes, selection biases, and inadequate consideration of social determinants of health that relate to longstanding structural racism have limited interpretation of these observations.

Upon conclusion of this course, learners will be able to:

- Analyze race as a social construct
- Describe discordant findings as to differential risk for Alzheimer disease for Blacks versus Whites
- Incorporate social determinants of health in analyses of potential racial differences in Alzheimer biomarkers

Speaker Biography:

Dr. John C. Morris is the Harvey A. and Dorismae Hacker Friedman Distinguished Professor of Neurology; Professor of Pathology and Immunology; Professor of Physical Therapy; Professor of Occupational Therapy; and Director of the Charles F. and Joanne Knight Alzheimer's Disease Research Center at Washington University School of Medicine. Dr. Morris' research interests include healthy aging and Alzheimer dementia, antecedent biomarkers for Alzheimer disease, and trials of investigational drugs for the treatment of Alzheimer dementia. Dr. Morris has authored 4 books and more than 700 published articles (current h-index 156). Dr. Morris is a member of several professional societies and serves on numerous scientific and community advisory boards. He has received many honors and awards, including the MetLife Award for Medical Research in Alzheimer's Disease (2004); the Potamkin Prize for Research in Pick's, Alzheimer's, and Related Dementias (2005); and the Carl and Gerty Cori Faculty Achievement Award, Washington University (2010). In 2013, he received the 2013 Peter H. Raven Lifetime Achievement Award from the

Academy of Science of St. Louis, the Washington University School of Medicine Second Century Award, and the 2013 Medical & Scientific Honoree from the Alzheimer's Association. He is ranked in the top 1% of investigators in the field of Neuroscience and Behavior by Essential Science Indicators database.

Live Meeting Close

2:55 - 3:00pm Friday, 4th February, 2022

***LIVE* INS Business Meeting**

3:00 - 3:30pm Friday, 4th February, 2022

INS Student Liaison Committee Panel 02: Cross-Cultural Neuropsychology Across the Globe

3:00 - 4:30pm Friday, 4th February, 2022

Presenters: Dr. Alberto Fernandez, Dr. Sanne Franzen, Dr. Tedd Judd and Dr. Lingani Mbakile-Mahlanza

Symposium 09: Has Alzheimer's disease been cured? Perspectives on FDA approval of aducanumab, the first disease-modifying treatment for Alzheimer's disease

3:00 - 4:30pm Friday, 4th February, 2022

17 Has Alzheimer's disease been cured? Perspectives on FDA approval of aducanumab, the first disease-modifying treatment for Alzheimer's disease

Chair

Adam Brickman

Columbia University, New York, USA

Discussant

Robin Hilsabeck

The University of Texas at Austin Dell Medical School, Austin, USA

Alexandra Weigand

San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, USA

Jennifer Manly

Columbia University, New York, USA

cross-cultural issues

987 Introduction - Symposium 09: Has Alzheimer's disease been cured? Perspectives on FDA approval of aducanumab, the first disease-modifying treatment for Alzheimer's disease

Adam Brickman

Columbia University, New York, NY, USA

535 When "disease modification" does not include symptoms: Did the conceptualization of Alzheimer's disease contribute to the approval of an ineffective medication?

Adam M. Brickman

Columbia University, New York, NY, USA

536 Overview of clinical trials methodology and guidance for patient selection and treatment monitoring of aducanumab: what neuropsychologists need to know

Robin C. Hilsabeck

The University of Texas at Austin Dell Medical School, Austin, TX, USA

537 Keeping the focus of aducanumab on individuals with Alzheimer's disease and their loved ones

Alexandra J. Weigand

San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA

538 Inclusion was an afterthought: What the aducanumab approval reveals about Alzheimer's Disease research

Jennifer J. Manly¹, M. Maria Glymour²

¹Columbia University, New York, NY, USA. ²University of California, San Francisco, San Francisco, CA, USA

Symposium 10: Transitioning to Adulthood: Interventions to Guide the Way for Autistic Youth

3:00 - 4:30pm Friday, 4th February, 2022

16 Transitioning to Adulthood: Interventions to Guide the Way for Autistic Youth

Chair

Helen Genova

Kessler Foundation, East Hanover, USA

Discussant

Helen Genova

Kessler Foundation, East Hanover, USA

424 Development of a Protocol for Measuring the Transition Odyssey of Youth on the Autism Spectrum: Parent Perspectives

Anne Roux, Kristy Anderson, Tamara Garfield

Drexel University, Philadelphia, PA, USA

425 An RCT of Virtual Interview Training for Transition Age Youth with Autism in Special Education

Matthew J Smith¹, Kari Sherwood^{1,2}, Brittany Ross¹, Justin D Smith³, Leann Dawalt⁴, Lauren Bishop^{4,5}, Laura Humm⁶, Jeff Elkins⁶, Chris Steacy⁶

¹University of Michigan School of Social Work, Ann Arbor, MI, USA. ²University of Michigan Department of Psychology, Ann Arbor, MI, USA. ³Department of Psychiatry and Behavioral Sciences, Northwestern University Feinberg School of Medicine, Chicago, IL, USA. ⁴Waisman Center; University of Wisconsin, Madison, WI, USA. ⁵School of Social Work; University of Wisconsin, Madison, WI, USA. ⁶Simmersion, LLC, Colombia, MD, USA

440 The Development and Implementation of a Strength-Based Intervention to Improve Job Interview Skills in Youth with Autism: Perceptions of Community Stakeholders

Helen M Genova^{1,2}, Mikayla Haas¹, Yu-Lun Chen^{1,2}, Michael Dacanay¹, Alexandra Edwards¹, Lauren Hendrix¹, Robert E McGrath³, Matthew J Smith⁴

¹Kessler Foundation, East Hanover, NJ, USA. ²Rutgers University, Newark, NJ, USA. ³Fairleigh Dickinson University, Teaneck, NJ, USA. ⁴University of Michigan School of Social Work, Ann Arbor, MI, USA

544 Enhancing Work-Related Social Skills of Transition-Age Students with Autism: Efficacy of ASSET Intervention

Connie Sung¹, Amy Nasamran¹, Annemarie Connor², Alicia Strain¹

¹Michigan State University, East Lansing, MI, USA. ²Florida Gulf Coast University, Fort Myers, FL, USA

989 Discussion - Symposium 10: Transitioning to Adulthood: Interventions to Guide the Way for Autistic Youth

Helen Genova

Kessler Foundation, East Hanover, NJ, USA

Paper Session 12: Infectious Disease

3:00 - 4:30pm Friday, 4th February, 2022

1 Differential Associations Between BDNF and Memory Across Older Black and White Adults with HIV Disease

Pariya Fazeli Wheeler¹, Steven P Woods², Crystal Chapman Lambert¹, Wei Li¹, Cierra N Hopkins¹, David E Vance¹

¹UAB, Birmingham, AL, USA. ²UH, Houston, TX, USA

2 Plasma Biomarkers of Vascular Injury Uniquely Relate to a Classic 'Vascular' Profile of Neurocognitive Deficits in Virally Suppressed Adults with HIV

Rowan Saloner^{1,2,3}, Ni Sun-Suslow¹, Erin E Morgan¹, Judith D Lobo¹, Mariana Cherner¹, Ronald J Ellis^{1,4}, Robert K Heaton¹, Igor Grant¹, Scott L Letendre¹, Jennifer E Iudicello¹

¹HIV Neurobehavioral Research Program, Department of Psychiatry, University of California, San Diego, San Diego, CA, USA. ²San Diego State University/University of California, San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. ³Memory and Aging Center, Department of Neurology, University of California, San Francisco, San Francisco, CA, USA. ⁴Department of Neurosciences, University of California, San Diego, San Diego, CA, USA

3 Cognitive outcome in Long COVID-19 patients using a standard neuropsychological battery

Eric J Waldron¹, Douglas M Whiteside¹, Michael R Basso², Savana Naini¹, James Porter¹, Erin Holker¹, Sarah Taylor¹

¹University of Minnesota, Minneapolis, MN, USA. ²Mayo Clinic, Rochester, MN, USA

4 Neurocognitive Profile and Psychosocial Characteristics of Pediatric Patients with Long COVID

Rowena Ng^{1,2}, Gray Vargas¹, Dasal T Jashar¹, Amanda K Morrow^{1,2}, Ellen Henning¹, Laura A Malone^{1,2}

¹Kennedy Krieger Institute, Baltimore, MD, USA. ²Johns Hopkins University School of Medicine, Baltimore, MD, USA

5 Subjective and Objective Cognitive Impairment Following COVID-19 in a Finnish Cohort

Laura Hokkanen¹, Riikka Pihlaja^{1,2}, Henriikka Ollila³, Sanna Koskinen¹, Annamari Tuulio-Henriksson¹, Marjaana Tiainen⁴, Johanna Hästbacka³

¹Department of Psychology and logopedics, Faculty of Medicine, University of Helsinki, Helsinki, Finland. ²Division of Neuropsychology, HUS Neurocenter, University of Helsinki and Helsinki University Hospital, Helsinki, Finland.

³Intensive Care Units, Department of Anaesthesiology, Intensive Care and Pain Medicine, University of Helsinki and Helsinki University Hospital, Helsinki, Finland. ⁴HUS Neurocenter, University of Helsinki and Helsinki University Hospital, Helsinki, Finland

6 Cognitive Consequences of COVID-19: Results from A South American Cohort Study.

Nicolás Corvalán, Ismael Calandri, Agostina Carello, Greta Keller, Carlos Martínez, Micaela Arruabarrena, Ricardo Allegri, Lucia Crivelli

Fleni, Buenos Aires, Argentina

Paper Session 13: Cultural 2

3:00 - 4:30pm Friday, 4th February, 2022
Salon H

1 Is the MoCA a Culturally Fair Screener in a Diverse Geriatric Primary Care Setting? Lessons from the Bronx

Marnina B Stimmel, Emmeline Ayers, Joe Verghese, Erica Weiss

Department of Neurology, Albert Einstein College of Medicine, Montefiore Medical Center, Bronx, NY, USA

2 Associations Between Loneliness and Cognitive Performance in a Multi-Ethnic Sample of Midlife Women

Eleni A Kapoulea, Jasmine S. Dixon, Rebecca E. Ready

University of Massachusetts, Amherst, Amherst, MA, USA

3 Ethnic Enclaves, Nativity, and Their Relationship to Cognitive Ability in Hispanic/Latinx WHICAP Participants

Karen A Dorsman¹, Dominika Seblova^{2,3,4}, Daniel J Pohl⁵, Erin R Kulick^{4,6}, Joan A Casey⁷, Richard Mayeux^{2,3,4}, Jennifer J Manly^{2,3,4}

¹University of Texas Southwestern Medical Center, Dallas, Texas, USA. ²Taub Institute for Research on Alzheimer's Disease and the Aging Brain, Vagelos College of Physicians and Surgeons, Columbia University, New York, New York, USA. ³Gertrude H. Sergievsky Center, Vagelos College of Physicians and Surgeons, Columbia University, New York, New York, USA. ⁴Department of Neurology, Vagelos College of Physicians and Surgeons, Columbia University, New York, New York, USA. ⁵Vagelos College of Physicians & Surgeons, Columbia University, New York, New York, USA. ⁶Department of Epidemiology and Biostatistics, College of Public Health, Philadelphia, Pennsylvania, USA.

⁷Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University, New York, New York, USA

4 The Effect of Diabetes and Neighborhood Adverse Factors on Memory Functioning

Ana J Ramos-de Jesus¹, Silvia Chapman², Miguel Arce Rentería², Dominika Seblova², Karen A Dorsman³, Adam M Brickman², Jennifer J Manly²

¹Columbia University in the City of New York, New York, NY, USA. ²Columbia University Irving Medical Center, New York, NY, USA. ³UT Southwestern Medical Center, Dallas, TX, USA

5 Associations Between Healthcare Factors and Multidomain Neuropsychological Outcomes in Older Adults with Prediabetes and Diabetes

Kayla S Walker¹, Travis M Scott^{2,3}, Alexandra L Clark⁴, Alexandra J Weigand⁵, Danielle L Sanchez¹, Katherine J Bangen^{6,7}, Michelle R Madore^{2,3}, Kelsey R Thomas^{6,7}

¹San Diego State University, San Diego, California, USA. ²VA Palo Alto Healthcare System, Palo Alto, California, USA. ³Stanford University, Palo Alto, California, USA. ⁴University of Texas at Austin, Austin, Texas, USA. ⁵San Diego State University/University of California San Diego Joint Doctoral Program in Clinical Psychology, San Diego, California, USA. ⁶VA San Diego Healthcare System, San Diego, California, USA. ⁷University of California San Diego, La Jolla, California, USA

6 *Mirando Hacia el Futuro [Looking to the Future]: Bilingual Neuropsychological Training for Spanish/English-Speaking Neuropsychologists and Trainees*

Stephanie Torres¹, Alicia Ranucci², Janet Yañez³, Luis E Aguilar⁴, Michelle Miranda⁵

¹University of Houston, Houston, TX, USA. ²Kaiser Permanente Northern California Neuropsychology Consortium, San Francisco, CA, USA. ³UCLA Hispanic Neuropsychiatric Center of Excellence (HNCE), Cultural Neuropsychology Program (CNP), Semel Institute for Neuroscience & Human Behavior, Los Angeles, CA, USA. ⁴Alliant International University, San Francisco, CA, USA. ⁵University of Utah, Salt Lake City, UT, USA

***LIVE* Student Liaison Committee (SLC) Student Trivia & Social Event**

5:30 - 7:00pm Friday, 4th February, 2022

***LIVE* Student Liaison Committee (SLC) Optional Poster Zoom Sessions**

8:00 - 9:00am Saturday, 5th February, 2022