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
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/MP and serves as Co-I on numerous studies based in the US, Southeast Asia, and Africa. 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](image)

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 pathphysiology-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 pathphysiology of disease

Speaker Biography:

Dr. Stewart Graham is from Northern Ireland where he completed his B.Sc. (Hons) in Biochemistry, M.Sc. in Biomolecular 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
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 Holtzer¹,²
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 Wylie¹,²,³, Amanda Pra Sisto¹, Helen M Genova⁴, John DeLuca¹,²
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. Eichelberger¹,², Tanja H. Kakebeeke¹,³, Jon A. Cafisch¹,³, Oskar G. Jenni¹,²,², Flavia M. Wehrle¹,³,²
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 Alexander⁵, Kristina Visscher⁶, 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 Holtzer¹,⁴
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 Knoff¹,², 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
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
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. Thomas³,², Katherine J. Bangen³,²

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, Pradyuma K Bharadwaj², Hyun Song², Samantha G Smith², Eric Porges¹, Georg A Hishaw², Samuel Wu¹, Steven DeKosky¹, Gene E Alexander², Michael Marsiske², 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 Delgadillo¹², Peter Louras¹², Aidan Boese¹², Nesha Harper¹², Megan Frank¹, J. Kaci Fairchild²³

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**
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 Vito1,2, Stephen Correia1,2, Maria Theresa Coutinho2, Athene KW Lee1,2
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/Aβ42 Biomarker Clusters of Alzheimer's Disease Risk with Cognitive Function in Healthy Older Adults

Pradyumna K Bharadwaj1,2, Jessica R Andrews-Hanna1,2,3, Gene E Alexander1,2,4,5,6
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 Han1,2, 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 Kapoor3, Aimée Gaubert4, Katherine J Bangen3,4, 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, Tuscon, 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 Lee3, 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
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 Holtzer¹,²

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-Hanna²,³,⁴, Matthew D Grilli¹,²,⁴,⁵

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. Mayuex, 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 Fairchild¹,²,³
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. Weir¹,²,³, Justina F. Avila¹,²,³, Gloria Huei-Jong Graf⁴,⁵, Daniel W. Belsky⁴,⁵, Jennifer J. Manly¹,²,³
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
Adam Smith

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
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


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

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

Chair
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

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1. **Handicraft Art Leisure Activities and Cognitive Reserve**

   **Genna M Mashinchi, Craig P McFarland, Stuart Hall**

   University of Montana, Missoula, MT, USA

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

   **Batool Rizvi1, Patrick J. Lao2, Mithra Satishkumar1, 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

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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

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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

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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

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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**

   1Kent State University, Kent, OH, USA. 2Summa Akron City Hospital Center for Senior Health, Akron, OH, USA
7 Everyday Cognition (ECog) in a Clinical Context: Correlation with Clinical Tools and Concordance with Team Consensus Diagnosis

John B O'Hara¹, Danielle Kaplan²,¹, Kristin E Slyne¹,³

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 Woo¹,²

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 Ramdas³, Mary F Feitosa³, Anatoliy 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. Thomas¹,², Emily C. Edmonds¹,², Amanda Calcetas², Lauren Edwards³, Maria Bordyug², Katherine J. Bangen¹,²

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

Joshua T Fox-Fuller\(^1\), Celina F Pluim\(^1\), Jairo E Martinez\(^2\), Ana Baena\(^3\), Clara Vila-Castelar\(^2\), Justin S Sanchez\(^2,4\), Francisco Lopera\(^3\), Alice Cronin-Golomb\(^1\), Yakeel T Quiroz\(^2,3,5\)

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

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

Defne Yucebas\(^1\), Joshua T Fox-Fuller\(^1,2\), Alex L Badillo Cabrera\(^2\), Ana Baena\(^3\), Victoria Tirado\(^3\), Kathryn V Papp\(^4\), Clara Vila-Castelar\(^2\), Liliana Ramirez Gomez\(^5\), Alice Cronin-Golomb\(^1\), Francisco Lopera\(^3\), Yakeel T Quiroz\(^2,3,5\)

\(^1\)Boston University, Department of Psychological and Brain Sciences, Boston, MA, USA. \(^2\)Massachusetts General Hospital, Department of Psychiatry, Boston, MA, USA. \(^3\)Grupo de Neurociencias, Universidad de Antioquia, Medellin, Colombia. \(^4\)Department of Psychiatry, Brigham and Women's Hospital, Boston, MA, USA. \(^5\)Department 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 Gemelli\(^1\), Laura Elizabeth Korthauer\(^2,1\), Deirdre O'Shea\(^1,2\), Brian R Ott\(^2\), Jennifer D Davis\(^1,2\)

\(^1\)Rhode Island Hospital, Providence, RI, USA. \(^2\)Warren 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 Clark1,2, 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 Aschenbrenner1,2, Jason M Doherty1, Ann Johnson3, Catherine M Roe1,2, Ganesh M Babulal1,2

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 Woo1,2

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 Wright2,3, 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 Chia2, John Gunstad3, 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 Steinbach1,2, Corey J Bolton1,2, Angela L Jefferson1,2, Timothy J Hohman1,2, Katherine A Gifford1,2
1Vanderbilt Memory & Alzheimer's Center, Vanderbilt University Medical Center, Nashville, TN, USA. 2Department of Neurology, Vanderbilt University Medical Center, Nashville, TN, 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 Brickman¹,²,³, Jennifer J Manly¹,²,³, Nicole Schupf¹,²,⁴, Richard P Mayeux¹,²,³,⁴, Yian Gu¹,²,³,⁴

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 Blennow²,³, Henrik Zetterberg²,³,⁴,⁵, 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 Hestad1,2, Perter Otto Horndalsveen2, Knut Engedal3,4
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 Kramer¹, 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 Preston¹,², Jordan C Williams¹, Prasad R Padala¹,²,³
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 Ronat¹,², Lyna M El Haffaf¹,³, Alexandru Hanganu¹,³
¹Centre de Recherche de l'lнститut 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 Chapman¹, Megan S Barker¹, Jordan Dworkin²,¹, Jillian L Joyce¹, Stella M Garriga¹, Christopher Gonzalez³,¹, 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. Williams¹,²,³, Nathan A. Gillespie⁴, Tyler R. Bell²,¹, Anders M. Dale⁵,⁶, Jeremy A. Elman¹,², Lisa T. Eyler²,⁷, Christine Fennema-Notestine²,⁵, Donald J. Hagler, Jr.⁵, Michael J. Lyons⁸, Linda K. McEvoy⁹, Michael C. Neale⁴, Matthew S. Panizzon¹,², Chandra A. Reynolds⁹, Mark Sanderson-Cimino¹,²,³, Carol E. Franz¹,², William S. Kremen¹,²
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
Higher levels of trait mindfulness are associated with less amyloid, tau, cognitive decline, and brain atrophy in preclinical Alzheimer’s disease

Cherie Strikwerda-Brown1,2, Hazal Ozlen1,2, Alexa Pichet Binette1,2, Marianne Chapleau2, Sylvia Villeneuve1,2

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

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

Karen A Dorsman1,2, Leslie Rosenstein1,2

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

Machine learning models to predict the outcome of traumatic brain injury

Alexandra T Davis

Chaminade University of Honolulu, Honolulu, HI, USA

Closing the Gap: Increasing Access to Feedback in Pediatric Neuropsychology Through Teleneuropsychology

Kelsey D Grodner1, Emily Z Holding1, Sara M Scull1, Kelsey P Marschall1, Erica Pollock1, Jennifer Amato1,2, Jonathan D Lichtenstein1,2

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

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

Emily W. Paolillo1,2, 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

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

Hannah L Weiss1,2, Matthew P Marggraf1, Greg J Lamberty1,3
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 Mis, Taisei Ando, Takehiko Yamaguchi, Caroline Brough, Leah Michalski, Linda J. Hoffman, Ingrid Olson, Tania Giovannetti

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, Robert J. Kanser, Justin J. F. O'Rourke

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 Mckniff, Rebecca Marrero, Emma Pinsky, Molly Tassoni, Katherine Hackett, Tania Giovannetti

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 Maynard, Deirdre O'Shea, Geoffrey Tremont, Charles Denby, Brian R Ott

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
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, Franchesca 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
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.

MICAELE MARIA ARRUBARRENA, 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
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 illness (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
187 Use of Eye Tracker Technologies in Neurological Populations

Silvana L Costa
Kessler Foundation, East Hanover, NJ, USA


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. Crescenz (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

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, Ketylyne Sol4, Shellie-Anne Levy5, Mirella Diaz-Santos6, Franchesca Arias7, Carmen Carrion8, Tanisha G. Hill-Jarrett6, Luis Medina10, Sarah Tom2, Rebecca Melrose6, Richard Jones11, Nicole Schupf2, Richard Mayeux2, Adam M. Brickman2, Jennifer J. Manly2
1Morehouse School of Medicine, Atlanta, GA, USA. 2Columbia University Medical Center, New York City, NY, 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

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 Parson1,2, 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 Boots1,2, Sue Leurgans2, Douglas L Feinstein1, Debra Fleischman2, Konstantinos Arfanakis2,3, 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

1University of California, San Francisco, San Francisco, CA, USA. 2University of California, Santa Barbara, Santa Barbara, CA, USA

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 Schroyen1,2,3, Julie Vissers3, Michelle Melis1,2,3, Ann Smeets2,4,5, Céline R. Gillebert1,6, Jurgen Lemiere2,4,7, Stefan Sunaert1,3,8, Sabine Deprez1,2,3, Charlotte Sleurs1,2,4

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
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 Sekely¹,², Kristin L. Campbell³, Lori J. Bernstein²,¹, Warren P. Mason², Gregory Pond⁴, Normand Laperriere², Barbara-Ann Millar², David Shultz², Derek S. Tsang², Gelareh Zadeh⁵,¹, Kim Edelstein²,¹

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
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 Luo², 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 Gao¹,², Xiaozhen You¹, 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
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. Lynch1,2, Yingying Xu2, Kimberly Yolton2, Jane C. Khoury2, Aimin Chen3, Bruce P. Lanphear4, Kim M. Ceci2, Joseph M. Braun5, Jeffery N. Epstein2

1University of Cincinnati, Cincinnati, OH, USA. 2Cincinnati Children's Hospital Medical Center, Cincinnati, OH, USA. 3University of Pennsylvania, Philadelphia, PA, USA. 4Simon Fraser University, Burnaby, British Columbia, Canada. 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 Vespa2, David A Hovda3, 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
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'Neil¹,²
¹Eastern Michigan University, Ypsilanti, Michigan, USA. ²University of Michigan, Ann Arbor, Michigan, USA

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
¹Drexel University, Philadelphia, PA, USA. ²Lehigh University, Bethlehem, PA, USA. ³Boston Children's Hospital, Boston, MA, USA

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
¹Temple University, Philadelphia, PA, USA. ²Technion-Israel Institute of Technology, Haifa, Israel

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. Lacey¹,², Elizabeth L. Dvorak¹, Peter E. Turkeltaub¹,²
¹Center for Brain Plasticity and Recovery, Georgetown University, Washington, District of Columbia, USA. ²Research Division, MedStar National Rehabilitation Hospital, Washington, District of Columbia, USA

33 Burden Negatively Impacts Attention in Caregivers of Persons with TBI
34 A Prospection Intervention Engenders Greater Episodic Specificity

Chelsey M Maxson, Bethany Gorter, Stuart Hall
University of Montana, Missoula, MT, USA

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

Marie-Claude Guerrette1,2, Michelle McKerral1,2
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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, PhD1,2
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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, Krissey E Smith1, Enrique Lopez2, 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 Munoz1,2, Carolina Garza Castañeda3, Marina Piñeiro4, Paul Vespa5,6, David A Hovda6, David McArthur1, Deborah Budding1, David J Hardy7, Richard Everson1, Ellen Woo8, Kristina E Smith9, Daniel W Lopez-Hernandez1, Matthew J Wright1

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42 Speeded Attention, Bilingualism, and Functional Outcome Following TBI

Kristina E Smith1,2, Bethany A Nordberg1, Daniel W Lopez-Hernandez1, Isabel D Munoz1,2, Sarah Saravia1,4, Carolina Garza5, Tara L Victor2, Sarah Fatoorechi5, Selina Mangassarian6, Enrique Lopez2, Paul M Vespa4,8, Alexis Bueno1, David A Hovda5, 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 Saravia1,2, Daniel W Lopez-Hernandez1, Bethany Nordberg1, Alexis Bueno1, Nick Graub1, Winter Olmos1,3, Raymundo Cervantes1,4, Isabel D Munoz1,6, Jasman Sidhu1,3, 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 Olmos1,2, Daniel W Lopez-Hernandez1, Sarah Saravia1,2, Bethany A Nordberg1, Rachel A Rugh-Fraser1, Abril J Baez1,2, Isabel D Munoz1,2, Paul M Vespa3,4, 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 Wittine1,3, Kristen Dams-O’Connor4, Marc A. Silva1,5, Prathusha Maduri4, Risa Nakase-Richardson1,5,6

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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, Sofia 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 Hernandez1,2, Abril J Baez1,2, Daniel W Lopez-Hernandez1, Bethany A Nordberg1, Isabel D Munoz1,2, Jasman Sidhu1,2, 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
¹University of Nebraska - Lincoln, Lincoln, Nebraska, USA. ²Quality Living, Inc., Omaha, Nebraska, USA

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

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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

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

Aboli A. Kesbhat, Amery Treble-Barna

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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

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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

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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 reliable 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

Chair

Bruce Hermann
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 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 Mrakotsky1,2, Vanessa Mitsialis1,2, Ally Eran1, Anna Prohl1, Michael Field1, Simon Warfield1,2, Scott Snapper1,2

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'Neill1,2

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 Hardy1,2, Christina M Sharkey1, Kaitlyn Tiplady1, Hannah Weisman1, Belinda Barton3, Tena Rosser4, Jonathan M Payne5, Karin S Walsh1,2, Nicole J Ullrich6, Kathryn North2, 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 Powell1,2, Erin T Kaseda3,1, Clayton D Hinkle1,2, Lizabeth L Jordan1,2, Megan N Scott1,2, Frank A Zelko1,2
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 Gaudet1,2, Brian C Castelluccio1,2, Dov Gold1,2, Stephen Correia1,2, Nicole McLaughlin1,2
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
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 a 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. Trivedi3

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 Pocsai¹, Aditya Kulkaani¹, Vivian Q Chu¹, Isabelle K Avidsen¹, Laura A Rabin², Joel Erblich³, 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. Fellows¹,², Katherine J. Bangen¹,², Lisa V. Graves¹,², Mark W. Bondi¹,²
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
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, Ethan 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 Wit¹,², 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, Phoenix, Arizona, USA. ³Mayo Clinic, Jacksonville, Florida, USA. ⁴Mayo Clinic, La Crosse, Wisconsin, USA

15 Background Music and Recognition Memory in Amnestic Mild Cognitive Impairment

Marco Calabria¹, Nicholas Grunden²³, 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,

Aimee M Giammittorio
University of Texas Medical Branch, Galveston, TX, USA

17 Factors predicting adherence to behavioral interventions in participants with amnestic 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 HVLT 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
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 Investigators2,3
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 Leung1,3, Raymond Siu Ming Wong4, Chi Kong Li1,3,5, 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 Wasserman², Sheina Emrani¹, Bernice Marcopulos¹,⁵, David J. Libon³,⁶

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 Schindler³,¹, David Blum⁵
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 Amnestic Mild Cognitive Impairment

Theone S. E. Paterson¹,², Kathryn A. Stokes³, Brian Levine⁴, Angela K. Troyer²,⁴, Morris Freedman²,³,⁴,⁵
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
40 Differences in Learning Characteristics in People with Systemic Lupus Erythematosus (SLE)

Simran Kang1,2, 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


Wayne State University, Detroit, MI, USA

43 Subjective Memory and Spatial Abilities in Patients with Hippocampal Amnesia

Sara Pishdadian1,2, Morris Moscovitch3,2, R. Shayna Rosenbaum1,2

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 Campbell1,2, Christine Fennema-Notestine2, Averi Barrett2, Erin Sundermann2, Mark W Bondi2,3, Rowan Saloner1,2, 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 Sauber2,3, Cecilia J Hillard2,3, 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
52 Co-opting Neuropsychological Measures to Assess Pattern Separation and Perceptual Discrimination: Insights from Hippocampal Amnesia

Krista A Mitchnick¹, R. Shayna Rosenbuam¹ 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 Haffaf¹ ², Lucas A Ronat¹ ³, Alexandru Hanganu¹ 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
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
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

Lucía 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 Eggins1, 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
Sticky Thinking: An Examination of the Relationships Between Rumination and Reflection with Apathy and Depression Following Severe Traumatic Brain Injury

Travis Weame, Skye McDonald
University of New South Wales, Sydney, NSW, Australia

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 Ramanan1,2,3,4, Hashim El-Omar2, Daniel Roquet2,3,4, Rebekah M Ahmed2,5, John R Hodges2,6, Olivier Piguet2,3,4, Matthew A Lambon Ralph1, Muireann Irish2,3,4
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 Budgen1, 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
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 Raina⁶

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 Lamberty²,³

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 Aschenbrenner¹,², Sarah Adams¹, Marisol Tahan¹, Sarah Stout¹, John C Morris¹, Jason Hassenstab¹,²

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. Ludwig¹,², Calliope Holingue¹, Ji Su Hong¹,², Luke Kalb¹,³, Deepa Menon¹,², Danika Pfeiffer¹,², Rachel Reetzke¹,²

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 Ng¹,², Natasha N. Ludwig¹,², Rachel Peterson¹,², Lisa Jacobson¹,²

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 ABDC 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 Dotson1,3

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 Azar1,2, Silvia Chapman3, Jillian Joyce3, Maria Schultheis2, Zoe Zhang2, Preeti Sunderaraman1, 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. Vasterling1,2, Ginette LaFleche1,2, Virginie M. Patt1,2, Renee Hunsberger1, Mieke Verfaellie1,2

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 Gimbel1,2, 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 Obolsky1,2, 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
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


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
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 Irwin1,2, 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
20 Sexually dimorphic patterns of anomalous volume, surface area, and cortical thickness in ADHD

Rebecca Rochowiak1, Deana Crocetti1, Yi Zhao2, Keri Rosch1,3, Mitch Batschelett1, Joanne Beer4, Stewart H Mostofsky1,3, 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 Shambaugh1,2, Sophie I Leib1,2, Lindsey R Holbrook1,2, 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 Fruehauf1,2, Sean B Vanhille1, Noah Valentine1, Elliott Smith1, Greg Vanni3, Meredith S Pescatello1,4, 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 Rennison1,2, Niman Gajebasia1,2, 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 Romski2, 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 Guia³, Eva M. Moreno⁴, 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. Cole¹,²,³, Natasha N. Ludwig¹,², Lisa A. Jacobson¹,²
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 Genova¹,², Heba E Elsayed¹,², 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 Elsayed¹,², Zuzanna Myszko¹, Peter Meulenbroek³, Michael Dacanay¹, Jacob Gronemeyer¹, Helen M Genova¹,²
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 Arora1,2, Zuzanna Myszko1, Heba Elsayed1,2, Helen Genova1,2
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 Univesity, 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 Ludwig1,2, Emma V Cole1,2, Rowena Ng1,2, Rachel K Peterson1,2, Lisa A Jacobson1,2
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 Reese1,2, Pieter Vuijk1, Mary Colvin1,2, Drew Coman3, Lauren Fleming1, Alysa Doyle1,2, 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?
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. Grigorenko¹,²

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 Jones¹,², Natasha N Ludwig¹,², Lisa Jacobson¹,², Andy Zabel¹,²

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 Moreno¹,²

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 Vrantsidis¹, Tyler Busch¹, Rebekah Benkart¹, Kerry Orton¹, Mary Lauren Neel²,³, Nathalie Maitre²,³, H. Gerry Taylor¹,²

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 Klarr6, 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 Winston1,2,3, Neami B Tedla1,2,4, Susan M Lee1,2
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 Inkelis1,2, 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 Rochesterester Medical Center, Rochester, NY, USA

61 Late and Moderate Prematurity: Behavioral and Neuropsychological Outcomes in Attention, Working Memory, and Executive Functioning

Heather C. Hennrick1,2, 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
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 Walsh¹,², Allison del Castillo³, Sara Silber¹, Maegan Sady⁴, Jonathan M Payne⁵, Natalie Pride⁶, Kristina K Hardy¹,²
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 of 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 Dehais, 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-Hakeem1,2, Kylie Mallory2,3, Brendan Lam2, Brenda Knapp2, Kim Moody2, Tess Bardikoff2, Andrea Hickling2, Shannon Scratch2,3

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 Huckans3,4, Maya E O'Neil3,4, Amy J Jak5,6, Elizabeth W Twamley5,6

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 Jacobus2,1

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 Sobolesky1,2, Breland Smith1,3, Melissa Hoffman1,4, Jacqueline Hubbard1,5, 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
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 Rhodes1,2, Michelle T Kassel1,2, 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 McClintock2,3, Charles H Kelner4, 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
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 Murdough¹,²

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 Tonning 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
7 Cardiorespiratory Fitness is Associated with Hippocampal Functional Connectivity in Women Newly Diagnosed with Breast Cancer

Alina Lesnovskaya1,2, Hayley S Ripperger1,2, Shannon D Donofry1, Jermon A Drake1,2, Alexa Poniatowski1, Patrick T Donahue1,3, Mary E Crisafio1, Emily A Richards1, George Grove1, Amanda L Gentry1, Susan M Sereika1, Cathy M Bender1, Kirk I Erickson1,2

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

8 Cerebral Perfusion is Associated with Cardiorespiratory Fitness in Women with Breast Cancer

Hayley S Ripperger1,2, Chelsea M Stillman1, Sarah L Aghjayan1,2, George Grove1, Patrick T Donahue3,1, Mary E Crisafio1, Emily A Richards1, Amanda L Gentry1, Susan M Sereika1, Catherine M Bender1, Kirk I Erickson1,2

1University of Pittsburgh, Pittsburgh, PA, USA. 2Center for the Neural Basis of Cognition, Pittsburgh, PA, USA. 3Johns Hopkins University, Baltimore, MD, 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 Feller3, Joanna Pei-En Huang1, Emily Nishimura1, Abigail Onderwyzer Gold1, Nicole Delgado1, Alysia Bosworth3, Melissa Balderrama2, Grace Mucci2, Kimberly Kayser2, Kathleen Ingman2, Heather Huszt3, 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
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. Goodman1,2, Jayme M Palka1, Alina Nguyen1, Alice A Holland1,2
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 Holland1,2
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

¹University of Illinois at Chicago, Chicago, IL, USA. ²Northwestern University Feinberg School of Medicine, Chicago, IL, USA. ³Brigham Young University, Provo, UT, USA. ⁴Wake Forest School of Medicine, Winston-Salem, NC, USA. 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-Tracked 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 Balconi¹, Marco Bove³, Maurizio Bossola⁴, Laura Angioletti¹, Laura Fronda¹, Davide Crivelli¹

¹International Research Center for Cognitive Applied Neuroscience (IrcCAN), Faculty of Psychology, Università Cattolica del Sacro Cuore, Milan, Italy. ²Research Unit in Affective and Social Neuroscience, Department of Psychology, Università Cattolica del Sacro Cuore, Milan, Italy. ³Dipartimento di Scienze, Università Cattolica del Sacro Cuore, Rome, Italy. ⁴Dipartimento di Scienze, Università Cattolica del Sacro Cuore, Rome, Italy. ⁵Fondazione Policlinico Universitario A. Gemelli IRCCS, Rome, Italy
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 Garcia Tinoco¹, Bernarda Tellez Alanis², 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
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 Engelmann1,2, Nancy L Nussbaum3,1
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 Manning1,2, Caitlyn J Cap1,3, 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 Kalscheur1,2, Raquel Farias-Moeller1,2, Jennifer Koop1,2
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-Zink1,2, Donald J Bearden2,3, Robyn Selawski2, Susan Lee2,3, Ruba R Al-Ramadhan2,3, Sonam Bhalla2,3, Corinne Oliver2, Joshua Chem2,3, Kim E Ono2,3, Satyanarayana Gedela2,3, Jennifer Ganote2, Guojun Zhang2,3, Nigel P Pedersen1, Daniel L Drane1, Ammar Kheder2,3
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 Sepeta1,2, 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. Drane1,2, 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
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 Cap1,2, Madeline C Manning1,3, Byron Bernal1, Brandon M Korman1
1Nicklaus Children's Hospital, Miami, FL, USA. 2La Salle University, Philadelphia, PA, USA. 3Northeastern University, Boston, MA, USA

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 Thomas1,2, 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 McArdle1,2, Jason Osher1, Katherine King1, Margaret O'Connor3
1William James College, Newton, MA, USA. 2McLean Hospital, Belmont, MA, USA. 3Brigham and Women's, 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 Perinatally Acquired HIV in Thailand

Anthony F. Santoro1,2, Reuben N. Robbins1,2, Linda Aurpibul3, 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-Giller1,2, Sarah L Nolin3, Anne Glicksman3, Nicole Tortora3, Mohammad Arif3, Stephanie Sherman4, Emily Graves Allen4, Jessica Hunter5, Ariel Zucker1,2, Amanda Kenepp1,2, Veronica J Hinton1,2
1Queens College, City University of New York, New York, NY, USA. 2The Graduate Center, City University of New York, New York, NY, USA. 3NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, USA. 4Emory University School of Medicine, Atlanta, GA, USA. 5RTI International, Research Triangle Park, NC, USA

55 Gender- and Age-Specific Differences in Problem Behavior in Children with a Fragile X Premutation

Amanda Kenepp1,2, Sarah L Nolin3, Anne Glicksman3, Nicole Tortora3, Mohammad Arif3, Stephanie Sherman4, Emily Graves Allen4, Jessica E Hunter5, Shira Russell-Giller1,2, Ariel Zucker1,2, Veronica J Hinton1,2
1Queens College, City University of New York, Flushing, NY, USA. 2The Graduate Center, City University of New York, New York, NY, USA. 3NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, USA. 4Emory University School of Medicine, Atlanta, GA, USA. 5RTI International, Research Triangle Park, NC, USA
56 Social Communication and Interaction Deficits in Boys with a Fragile X Premutation

Ariel Zucker1,2, Sarah L Nolin3, Anne Glicksman3, Nicole Tortora3, Mohammad Arif3, Stephanie Sherman4, Emily Graves Allen4, Jessica E Hunter2, Amanda Kenepp1,2, Shira Russell-Giller1,2, Veronica J Hinton1,2

1Queens College, City University of New York, Flushing, NY, USA. 2The Graduate Center, City University of New York, New York, NY, USA. 3NYS Institute for Basic Research in Developmental Disabilities, Staten Island, NY, USA. 4Emory University School of Medicine, Atlanta, GA, USA. 5RTI International, Research Triangle Park, NC, USA

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 Wakeman1,2, Christa Hutaff-Lee1,3, Laura Pyle3, Anna Furniss3, Natalie Nokoff1,3, Canice Crerand4, Shanlee Davis1,5

1Children’s Hospital Colorado, Aurora, CO, USA. 2University of Colorado, Boulder, CO, USA. 3University of Colorado School of Medicine, Denver, CO, USA. 4Nationwide Children’s Hospital, Columbus, OH, USA. 5University of Colorado, Denver, CO, USA

59 Neuropsychological Findings in Adolescent-Onset Spinocerebellar Ataxia Type 7 (SCA7)

Laura K Winstone1,2, Diana Mihalache1,2, Cynthia A Austin5,2

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. 5Department 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

1Rossevelt 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
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 Barakat1,2, Michael Fisher1,2, Christine Hill-Kayser2, Robert Lustig2, Jane Mintum1,2, Iris Paltin1,2

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

1St. Jude Children's Research Hospital, Memphis, TN, USA. 2Queensland Children's Hospital, Brisbane, Australia. 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 Ris7, Anita Mahajan7, Andres Viana7, Murali Chintagumpala8, Lisa S Kahalley1

1Department of Pediatrics, Section of Psychology, Baylor College of Medicine, Houston, TX, USA. 2Department of Psychology, University of Houston, Houston, TX, USA. 3Department of Neuropsychology, Kennedy Krieger Institute, Baltimore, MD, USA. 4Division of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston, TX, USA. 5Department of Pediatrics, Section of Hematology Oncology, Baylor College of Medicine, Houston, TX, USA. 6Institute for Clinical and Translational Research, Baylor College of Medicine, Houston, TX, USA. 7Department of Radiation Oncology, The Mayo Clinic, Rochester, MN, USA

602 Patient-Centered Monitoring of Cognitive Late Effects in Pediatric Brain Tumor Survivors

Karin S Walsh1,2, Katilyn M Tiplady1, Shawna S van Scoyoc1, Hannah Weisman1, Kristina K Hardy1,2
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.
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 So¹,², Liesel Meusel², Bhanu Sharma³, Brenda Colella², Julien Poublanc⁴, Anne Wheeler⁵, Jenny Rabin⁶, David R Mikulis¹,⁴, Robin Green²,¹

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 Green¹,²

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 Mindt1,10

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. Warren1,2, Whitney Wharton3, Kay C. Igwe4,5, Maria Misiura1,6, Danielle D. Verble3, Adam M. Brickman4,7,8, Vonetta M. Dotson1,9

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. Oleas1,2, Maral N. Aghvinian1,2, Angela A. Summers1,2, Micah J. Savin1,2, Jordan Sliver1,2, Elizabeth A. Breen1,2, Alexander Slaughter1,2, Sandra Talavera2, Heining Cham1, Desiree Byrd2,3, Jessica Robinson-Papp2, Monica Rivera Mindt1,2

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 Olvera1,2, 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, Brigette 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, Karl 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 Landinez², David A Montoya³,⁴

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
6 Cognitive Telerehabilitation Group Intervention for Cognitive Impairments in Traumatic Brain Injury and Brain Tumor Populations: A Feasibility Study

Melissa S Brie¹,², Alexa R Greenstein¹, Stephanie Phan², Michele Diaz², Susan Chang¹, Christina Weyer Jamora¹,²

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. Goldberg³,⁴, Tracy L. Simpson¹,⁵,⁶, David J. Kearney¹,⁷, Kathleen F. Pagulayan¹,⁷

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 Haghighat¹, Brian Katz³, Robyn Woods³, Ryan D'Arcy³, Stella Babatunde³
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 Forges1, 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)
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-Lacombe1,2, Anna Hwang2,3, Brian A Maruyama2, Jerry Chen2, Sky Raptentsetsang2, Gary Abrams2, Tatjana Novakovic-Agopian2,3, Pratik Mukherjee2,3

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 Bailie2,3,4, Juan Lopez2,3,4, Melissa Jensen2,3,4, Angela Basham2,3,4, Ida Babakhanyan2,3,4

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 Hampstead1,2, 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
Angelie E. Cabrera Tuazon¹, Marina Nakhla¹,2, Erin Almklov¹, Raeanne C. Moore³, J. Vincent Filoteo⁴,5, Ece Bayram⁵,¹, Stephanie Lessig⁶,5, Irene Litvan⁵, Dawn M. Schiehser¹,³
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. ⁵Psychology Service, 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 Scott¹,², Robert S Eisinger³, Revath Sankar², Jared F Benge², Robin C Hilsabeck², Aysegul Gunduz³,⁴, 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 Scott¹,², Robert S Eisinger³, Amtul-noor Rana², Jared F Benge², Robin C Hilsabeck², Aysegul Gunduz³,⁴, 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, Massimilla Di Ruocco, Michela Balconi

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 Pizer, Stephen L Alta, Nanako A Hawley, Melissa A Myers, Victor A Del Bene, Dario A Marotta, Lindsay Niccolai, Harrison C Walker, Adam Gerstenecker, Roy C Martin, Olivia J Clay, Michael Crowe, Kristen L Triebe, Benjamin D Hill

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, Pat Olsen, Laura Sebrow, Shonna J. Schneider, Jennifer Miller, Paul J. Mattis

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 Crowley, James T Patrie, Scott A Sperling
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


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 Zuppichini, Dinesh K Sivakolundu, Kathryn L West, Darin T Okuda, Bart Rypma

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. Hoffmeister, Michael R. Basso, Ryan Mulligan, Douglas M. Whiteside, Dennis Combs, Eoin Flanagan

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 Riegler, Cristina A.F. Roman, Margaret H Cadden, Erin T Guty, Garrett A Thomas, Megan L Bradson, Peter A Arnett

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. Guty¹,², 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. Aita¹,², John J. Randolph¹,³, Grant G. Moncrief¹,², John D. Fisk⁴, Heather A. Wishart¹,²

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. Medaglia¹,²

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
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 Knoefel², Gerson Suarez Cedeno³, Amanda Deliglisch³, 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 Stone³, Chris Wertz¹, Alexandra Hartman¹, Andrew Mayer¹, John Adair³, Janice Knoefel², Gerson Suarez Cedeno², Amanda Deliglisch², 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 Davidson¹,²,³, Melissa McSweeney⁴, Walter Swardfager¹, Richard H. Swartz¹,⁴, Clement Hamani¹,²,³, Peter Giacobbe¹,²,³, Sean Nestor¹,³,⁵, Michael Schwartz¹,², Agessandro Abrahao¹,²,³,⁴, Nir Lipsman¹,²,³, Jennifer S. Rabin¹,²,³,⁴,⁵

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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 Neale¹,², Claire Speelman¹, Vibhor Krishna¹, Aristide Merola¹, Barbara Changizi¹, Laura Boxley¹, Erica Dawson¹, Samantha DeDios-Stern¹, Christopher M Nguyen¹, Darrin M Aase¹
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 Choi1,2, 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
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.
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.

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’Neill1,2, 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’Neill5,1

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’Neill1,2, 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’Neill1,3, 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. 3Institute 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
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 Haneef1,3

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 Goedde1,2, Kelly J Peterson1,2, 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 Haneef1,2

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 Schraegle1,2, Jenna A Chiang1,2, Julia M Guerin1,2, Rosario C DeLeon1,2, Jeffrey B Titus1,2

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 Stasenko, Adam Schadler, Erik Kaestner, Anny Reyes, Carrie R McDonald

UCSD, San Diego, CA, USA

Paper Session 11: Dementia 2
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 Rentz1,2, Rebecca E Amariglio1,2, Rachel F Buckley1,3, Michael J Properzi1, Paul Maruff1,5, Michael Yassa6, Craig E Stark6, Keith A Johnson1, Reisa A Sperling1,2, Kathryn V Papp1,2
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 Thomas1,3, Emily C Edmonds1,3, Mark W Bondi1,3, Katherine J Bangen1,3
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
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.
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, Cordoba, Cordoba, Argentina

03 Generating and Testing Neuropsychological Test Norms That are Fair, Reliable and Accurate in a Low- and Middle-income Country.

Hetta Gouse¹, Kevin G.F. Thomas¹, Jane C. Masson¹, Michelle Henry¹, John A. Joska¹,2, Lucette Cysique³, Simin Ling⁴, Elaine Ye⁴,5, Jun Liu⁶,7,4, Reuben N. Robbins⁶,7,4

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 Drake1,2, Kirk I Erickson1,2,3, 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-Hernandez2, 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 Lopez7, 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, Cordoba, 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
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 Byrd5,6,7, Reuben N Robbins2

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13 Research Engagement Recommendations for Neuropsychological Dementia Disparities Studies in South Asian Immigrant Elders

Sandra A Kennedy1,2, Alice Gavarette Olvera1,2, Ahnaf Annur2, Shana S Samuel1,2, Christopher Rincon1,2, 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 Abrams1,2, Diomaris E. Safi1,2

1Department of Psychiatry and Behavioral Sciences, UCLA, Los Angeles, CA, USA. 2UCLA Hispanic Neuropsychiatric Center of Excellence, Los Angeles, CA, USA
Adolescents and Youth Mental Health During the COVID-19 Pandemic: The Intersectionality of Race and Gender

Nara Côrtes Andrade¹,², Flavia Leal Ozaki³, Maria de Fátima Dórea³, Thiago Mangueira 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

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

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

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

A culturally-informed neuropsychological assessment: An illustrative case study of a Vietnamese patient with Dementia with Lewy Bodies

BaoChan Tran¹, Ann T Nguyen²,³, Caroline Ba⁴, Lindsay Vo⁵, Lauren Ma⁶, 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

The Wechsler Adult Intelligence Scale, Fourth-Edition, Greek Adaptation (WAIS-IV GR): Normative Data for Elderly Greek Australians

Mathew Staios¹, 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 Pyykonen
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 Hayes1,2
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, Mima 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 Bangen1,2, Emily C Edmonds1,2, Sophia L Holmqvist3, Lauren Edwards3, Maria Bordyug1, Kayla Walker4, Travis M Scott5,6, Alexandra L Clark7, Alexandra J Weigand3, Michelle R Madore5,6, Kelsey R Thomas1,2

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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

1UC Berkeley, Berkeley, CA, USA. 2UC Davis, Walnut Creek, CA, USA. 3University of Costa Rica, San Pedro, Costa Rica

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 Renteria1, Rachel Ostrand2, Katherine Chia3,2, 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 Carmona1,2, Melissa C Balderrama1,3, Sharon H O'Neil4,5,3

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


1The Lundquist Institute, Torrance, CA, USA. 2California State University, Dominguez Hills, Carson, CA, USA. 3California State University, Northridge, Northridge, CA, USA. 4California State University, Fresno, Fresno, CA, USA. 5Tecnológico de Monterrey, Monterrey, Nuevo León, Mexico. 6Instituto Tecnológico y de Estudios Superiores de Monterrey Campus Ciudad de México, Mexico City, Mexico. 7Loyola Marymount University, Los Angeles, CA, USA. 8The National University of Córdoba, Cordoba, Cordoba, 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 Dandurand, Michael Stein, Britni Surprenant, Heidi Sarles-Whittlesey, Kristen Grimone, Debra Herman, Ana Abrantes, Lawrence Sweet

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, Juliette Pollefeyt, Filip Raes, Ann Smeet, Stefan Sunaert, Sabine Deprez, Kathleen Van der Gucht

1Department of Imaging and Pathology, KU Leuven, Leuven, Belgium. 2Research Foundation Flanders (FWO), Brussels, Belgium. 3Leuven Mindfulness Centre, KU Leuven, Leuven, Belgium. 4Faculty of Psychology and Educational Sciences, KU Leuven, Leuven, Belgium. 5Multidisciplinary Breast Center, UZ Leuven, Leuven, Belgium. 6Department of Surgical Oncology, UZ Leuven, Leuven, Belgium. 7Department of Oncology, KU Leuven, Leuven, Belgium. 8Department of Radiology, UZ Leuven, Leuven, Belgium

38 Within-Individual Neural Variability in the N-back Task and its Associations with Neuropsychological Measures of Vigilance and Working Memory

Stephanie N. Steinberg, Jeffrey G. Malins, Jingyu Liu, Tricia Z. King

1Georgia State University, Atlanta, Georgia, USA. 2Center for Translational Research in Neuroimaging and Data Science (TReNDS), 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 Liu¹,², 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 McGlade¹,²,³, Margaret Legarreta¹,²,³, Deborah Yurgelun-Todd¹,²,³
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 Kohli¹,², Ian A Martinadale¹, Molly Wilkinson¹,², 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

Kharine 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 Facchinii, 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 Reddy2,3, Kim Ono1,3, Donald Bearden1,3
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 Olshan1,2, 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 Raz1,2, Noa Ofen1,2,3
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 LecCheminant1, 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. Nolty1, 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 Martin1, Carlos Martinez 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
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
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-Panday1,2, 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 Staios1, Kokkinis Nikolaos2, Mary H Kosmidis2, Evrim March2, Renerus J Stolwyk2
1Monash University, Melbourne, Victoria, Australia. 2Aristotle University of Thessaloniki, Thessaloniki, Greece
Development and validation of the European Cross-Cultural Neuropsychological Test Battery (CNTB)

T. Rune Nielsen
Danish Dementia Research Center, Copenhagen, Denmark

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

Technology Based Interventions for Neurodegenerative Disease

Chair
Jared Benge
University of Texas at Austin, Austin, USA

Discussant
Russell Bauer
University of Florida, Gainesville, USA

Dementia Caregiver Insights on Use of Assistive Technologies
Andrew M Kiselica¹, Anna Boone¹, Michael Scullin², Jared F Benge³
¹University of Missouri, Columbia, MO, USA. ²Baylor, Waco, TX, USA. ³University of Texas--Austin, Austin, TX, USA

A Randomized Controlled Trial of Smartphone Enabled Strategies to Improve Prospective Memory Functioning in Mild Cognitive Impairment and Mild Dementia
Jared F Benge¹,²,³, Winston E Jones⁴, Richard Phenis³, Samantha Beevers³, Sabra Rosen³, Kara Dinh³, Andrew Kiselica⁴,³, Francis J Keefe⁵, Michael K Scullin²,³
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 ActiviDaily 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 Fenton¹ ², Lisette Isenberg³, Vahan Aslanyan², Daniel Albrecht², Joy Stradford², Teresa Monreal², Judy Pa² 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 Saloner¹ ², Nina Djukic¹, Corrina Fonseca¹, Johanna Nilsson³, Ann Brinkmalm³ ⁴, Kaj Blennow³ ⁴, Henrik Zetterberg³ 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 Thomas4,5, Katherine J Bangen4, Mark W Bondi2,4

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 Wilde5,6, Keith Owen Yeates7, Kristen R Hoskinson1,8

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,
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 Hillary²,⁴
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
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. Edmonds2,3, Kelsey R. Thomas2,3, Kayla Walker4, Alexandra J. Weigand1, Mark W. Bondi5, Katherine J. Bangen2,3

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
Moving Beyond Movement: Contribution of Cerebellar Structure and Connectivity on Cognition and Mood in Multiple Sclerosis

Cristina A. F. Román1,2, 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 Shirley1,2, Maya E. O'Neil1,2, Jennifer M. Loftis1,2

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, Rabbiya Iqbal3, Olivia Dann3, Erin Stolz3, Peter Isquith1, Gerard Gioia3
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-McCaron, 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 Aita1,2, Grant G Moncrief1,2, Alicia Carrillo3, Jennifer Greene3, Sue Trujillo3, Gerard A. Gioia4, Peter K. Isquith5, Robert M. Roth1,2

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'Neil1
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 Murdaugh1,2

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 Christopher1,2, 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 Iverson1,2,3, 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 Godfrey1,2, Lucy Foulkes3, Carly McMorris2,4, Ashley D Harris1,2,5, Signe Bray1,2,5

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 Renteria2

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 Abreu3,4, 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. Roy1,2
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 Day1,2, Nicholas J Pastorek2, Maya Troyanskaya2,3, Michael W Williams1, Randall S Scheibel2,3

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

¹The Lundquist Institute, Carson, CA, USA. ²Tecnológico de Monterrey, Monterrey, Nuevo León, Mexico. ³UCLA, Los Angeles, CA, USA. ⁴CSU Fresno, Fresno, CA, USA. ⁵Loyola Marymount Univeristy, Los Angeles, CA, USA

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 Trifilio¹,², Jake D Reike¹,², Damon G Lamb¹,², John B Williamson¹,²

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 Kassel¹,², Emma Rhodes¹,², Philip Insel²,³, Cara Woodworth², Christina Garrison-Diehn², J. Craig Nelson², R. Scott Mackin²,¹

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 Cong¹,²,³, Andrew M Gradone¹,²,³, Vonetta M Dotson⁴,²,³

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
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 Etzel1,2, Robert D. Shura2,3,4, Holly M. Miskey2,3,4
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 Keller1,2, Chantal Muller-Cohn2,3, Amy J Jak4,5,6, Elizabeth W Twamley2,5,6
1SDSU/UC San Diego Joint Doctoral Program in Clinical Psychology, San Diego, CA, USA. 2Research Service, VA San Diego Healthcare System, San Diego, CA, USA. 3California School of Professional Psychology, Alliant International University, San Diego, CA, USA. 4Mental Health Service, VA San Diego Healthcare System, San Diego, CA, USA. 5Department of Psychiatry, University of California San Diego, San Diego, CA, USA. 6Center of Excellence for Stress and Mental Health, VA San Diego Healthcare System, San Diego, CA, USA

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 Egglefield1,2, Sophie Schiff1,2, Bret R Rutherford3, Joel R Sneed1,2,3

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 Thies1,2,3, Pamela DeRosse3,2,4, Juan A. Gallego3,2,4, Nehal Vadhan3,4, Philip Watson3,2, Whitney Muscat5, Taylor Marzouk3,2,6, Simran Kang3,2,1, Anil K. Malhotra3,2,4

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
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 Paolillo1,2, 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 Garcia1,2, Kristen Dams O’Connor3, Risa Nakase-Richardson1,4, Marc A. Silva1,4
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
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 Tu²,³, Kevin M Hellman²,³

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

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**CE Workshop 11: Elucidating the Neurocognitive Effects of Electroconvulsive Therapys -- Presenter: Shawn M. McClintock**

8:00 - 9:30am Friday, 4th February, 2022
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
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 Lussier¹,², Sylvain Miljour³, Michelle McKerral¹,²

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
04 Associations Between Health-Related Behaviors and Self-Reported Cognitive Symptoms in U.S. Military Personnel Injured on Deployment

Sarah M Jurick1,2, Cameron T McCabe1,2, Jessica R Watrous1,2, 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. 45Uniformed Services University, Bethesda, MD, USA. 6David 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 Guty1,2, Victoria C Merritt3,4, 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. Gelnnett2, Amanda C. Glueck4, Dong "Dan" Y. Han3

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 Kanser1,2, Tracy K Kretzmer1, Jason R Soble3, Robin A Hanks4,5
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 Chandran2,3, J. D. DeFreese2, Rebekah Mannix4, Ruben J. Echemendia5,6, 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
16 Multi-Domain Assessment of Concussion Recovery: A Scoping Review

Danielle C DuPlessis1,2, Emily Lam1,2, Lucy Xie2, Nick Reed1, F. Virginia Wright2,1, Elaine Biddiss2,1, Shannon Scratch2,1

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 DaCosta1,2, 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 Su1,2, Pei-Chin Wu3, Yu-Chi Liao4, Willy Chou5,6, Jinn-Rung Kuo7,8, Ming-Tsung Chuang9, Nai-Wen Guo10,11

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 Williamson2
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 Iverson2,3,4,5, Kathleen C West1, Jussi P Posti6,7, Henrik Zetterberg8,9,10,11, Kaj Blennow8,9, Teemu M Luoto12,13
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 Laing1,2, Heather C Bouchard1,2, Elliot Carlson3, Lonnie Albers3, Arthur Maerlender1, Julie Tuttle3, Kate Higgins3, Amanda I Rodriguez2,4, Mark Mayer3, Douglas H Schultz1,2, Maital Neta1,2, Cary R Savage1,2
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

Apolipoprotein E (APOE) ε4 Genotype Impacts Prospective Memory Performance in Veterans with Histories of Mild Traumatic Brain Injury
Scott F Sorg1,2, Erin D Ozturk3, McKenna S Sakamoto1, Alexandra L Clark4, Shayna J Fink1, Adan Ton Loy1, Karen L Hanson1,2, Dawn M Schiehser1,2, Lisa M Delano-Wood1,2, Victoria C Merritt1,2

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 Bouchard1,2, Julia M Laing1,2, Douglas H Schultz1,2, Elliot Carlson3, Lonnie Albers3, Julie Tuttle3, Kate Higgins3, Amanda I Rodriguez1,4, Arthur Maerlender1, Mark Mayer3, Maital Neta1,2, Cary R Savage1,2

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 Munoz1,2, Daniel W Lopez-Hernandez1, Bethanya A Nordberg1, Alexis Bueno1, Maya Farchi3, Jill Razani3, Robert C Cantu4, Kevin M Guskievicz6, Daniel F Kelly6, Ronald Svedloch1, Christina Wang1, David J Hardy7, Ellen Woo9, 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
31 Using Heart Rate Variability in the Follow-Up of Concussed College Athletes: Exploring the Effects of Symptoms and Cognitive Functions

Mariane Doucet¹,², Hélène Brisebois³, Michelle McKerral¹,²

¹Centre for Interdisciplinary Research in Rehabilitation of Greater Montreal (CRIR), IURDPM, CIUSSS du Centre-Sud-de-l’Île-de-Montréal, Montréal, Qc, Canada. ²Department of Psychology, Université de Montréal, Montréal, Qc, Canada. ³Collège Montmorency, Laval, Qc, Canada

32 Intra-individual Variability in Performance Across Neuropsychological Tests Among Military Veterans and Civilians with Chronic Phase Traumatic Brain Injury

Carson Teague¹,²,³, Lauren Ratcliffe¹,²,⁴, Maria Meinerding³, Lindsey Poe³, Jeffrey Gfeller³

¹VA Ann Arbor Healthcare System, Ann Arbor, MI, USA. ²University of Michigan, Ann Arbor, MI, USA. ³Saint Louis University, St. Louis, MO, USA. ⁴Mercer University - College of Health Professions, Atlanta, GA, USA

33 Somatic, Psychiatric, and Cognitive Symptom Markers of Intimate Partner Violence-Related Brain Injury

Kathy S. Chiou¹, Shireen Rajaram², Matthew Garlinghouse², Peggy Reisher³

¹University of Nebraska-Lincoln, Lincoln, NE, USA. ²University of Nebraska Medical Center, Omaha, NE, USA. ³Brain Injury Alliance of Nebraska, Lincoln, NE, USA

34 Efficacy of Intensive Outpatient Program for Cognitive Impairment in Service Members with a History of Traumatic Brain Injury

Ida Babakhanyan¹,²,³, Melissa Jensen¹,²,³, Susan Gallardo¹,²,³, Jason M Bailie¹,²,³

¹Traumatic Brain Injury Center of Excellence, San Diego, CA, USA. ²Naval Hospital Camp Pendleton, San Diego, Ca, USA. ³General Dynamics Information Technology, Falls Church, VA, USA

35 Multi-Disciplinary Approach to Performance and Symptom Validity in Pediatric Patients with Persistent Post-Concussion Symptoms

Emily K. DiVirgilio¹,², Sean C. Rose¹,², Kathleen M. Shiplett¹, Kelly A. McNally¹,²

¹Nationwide Children's Hospital, Columbus, Ohio, USA. ²The Ohio State University, Columbus, Ohio, USA
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 Bacevice3,4, Barbara A Bangert5, Daniel M Cohen6,7, Nicholas A Zumberge7, Leslie K Mihalov6,7, H Gerry Taylor6,7, Keith Owen Yeates1,8

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 DuPlessis1,2, Emily Lam1, Fanny Hotze2, Stephanie McFarland2, F Virginia Wright2,1, Nick Reed1, Elaine Biddiss2,1, Shannon Scratch2,1

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 Gioia1,2, Roger Zemek3,4,5

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 Pollock1,2, 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
42 The Role of Suspect Performance Validity in Evaluation of Pediatric Concussion

Kathryn A Ritchie1,2, 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 Allen1,2, 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 Nyman1,2,3, 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 Ohiro3, 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
48 Association between sleep and the quality of parent-child interaction after early mild traumatic brain injury (mTBI)

Jacqueline Nguyen Phuong Trieu1,2,3, Catherine Landry-Roy1,2, Lara-Kim Hyunh1,2, Gabrielle Lalonde1,2, Élizabel Leblanc1,2, Annie Bernier1,2, Miriam Beauchamp1,2

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
Classification Accuracy of the Dot Counting Test Across Verbal and Visual Memory Impairment Severity in a Mixed Neuropsychiatric Sample


The University of Illinois at Chicago, Chicago, IL, USA

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

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

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

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

Effects of Pre-Existing Stroke on Acute Hospital Outcomes for Older Adults Admitted with Traumatic Brain Injury and Orthopedic Injury

Samantha M Vervoort¹, Mohamad K Hamze², Kristine C Dell¹, Frank G Hillary¹
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. Cummings1,2, Kay Igwe1, Natalie A. Bello1, Ruth Landau1, Whitney Booker1, Christiane Hale1, Nicole Pimentel Soler2, Joncarlos Berroa1, Dejania Cotton-Samuels1, 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. Hereld1,2, 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 Benamer, 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 Oboltsky3, Anureet Gill4, 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
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
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 Sass²,³

¹Mercer University, Atlanta, GA, USA. ²Cognitive Rehabilitation of Georgia, Atlanta, GA, USA. ³Restore Health Group, Rosewell, GA, USA

04 Is the MoCA Culturally Biased?
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 Okolichany4, Haley Aaron1, A'mie Preston1, Prasad Padala1
Central 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 Kaplan1,2, Joanna M. Fiszdon3, Godfrey D. Pearlson1,3, 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
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. Cohen1,2, 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. Sullivan1,2, Matthew W. Gallagher3, Romola S. Bucks3, Michael Weinborn3, Steven Paul Woods1,3
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 VOS1,2,3, Ciaran Considine4,2, Elisabeth Harfmann5,2, Hillary A Parker6,2, Kathleen Patterson2,3
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-Canar1,2, Gabriel P. Ovsiew1, Karen S. Basurto1, Kyle J. Jennette1, Zachary J. Resch1, Woojin Song1, Neil H. Pliskin1, Jason R. Soble1
1 Department of Psychiatry, University of Illinois at Chicago College of Medicine, Chicago, Illinois, USA. 2 Department 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 Merritt¹,², Mark H. C. Lai³, Catherine Chanfreau-Coffinier⁴, McKenna S. Sakamoto¹, Lisa Delano-Wood¹,²
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, MA¹,², 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
29 The role of education and spontaneous speech on cognition in middle-aged adults

Katherine Chia\textsuperscript{1,2}, John Gunstad\textsuperscript{3}, Jet M.J. Vonk\textsuperscript{4}, Adam M. Brickman\textsuperscript{4}, Jennifer J. Manly\textsuperscript{4}, Rachel Ostrand\textsuperscript{2}

\textsuperscript{1}Florida State University, Tallahassee, FL, USA. \textsuperscript{2}IBM Research, Yorktown Heights, NY, USA. \textsuperscript{3}Kent State University, Kent, Ohio, USA. \textsuperscript{4}Columbia University, New York, New York, USA

30 Lexical-Semantic Properties of Spontaneous Speech Production are Predictive of Memory in a Multi-Ethnic Cohort

Rachel Ostrand\textsuperscript{1}, Katherine Chia\textsuperscript{2,1}, John Gunstad\textsuperscript{2}, Jet Vonk\textsuperscript{4}, Jennifer J. Manly\textsuperscript{4}, Adam M. Brickman\textsuperscript{4}

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

32 Level of Creativity Within Occupation May Be More Strongly Related to Crystalized Intelligence Skills Than Fluid Ones.

Maria Pleshkevich\textsuperscript{1,2}, Yian Gu\textsuperscript{1}, Yunglin Gazes\textsuperscript{1}, Jayant Sakhardande\textsuperscript{1}, Yaakov Stern\textsuperscript{1}

\textsuperscript{1}Columbia University, New York, NY, USA. \textsuperscript{2}New York University, New York, NY, USA

33 Reliable change scores of the Multicultural Neuropsychological Scale

Maximiliano Folmer\textsuperscript{1}, Alberto Luis Fernandez\textsuperscript{1,2}, Gabriel Enrique Jáuregui Arriondo\textsuperscript{1}, Marcelo Vaiman\textsuperscript{1,2}, Gazul María Rotela Leite\textsuperscript{1}

\textsuperscript{1}Universidad Católica de Córdoba, Córdoba, Córdoba, Argentina. \textsuperscript{2}Universidad Nacional de Córdoba, Córdoba, Córdoba, Argentina

34 The Mnemonic Similarity Task (MST) and Traditional Memory Measures: How Similar are They?

Adrianna M Ratajaska, 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-Cimino1,2, 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 Sparadeo1,2, 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 Williamson¹,²,³, 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
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 Clifford¹,², 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

Northwestern University, Chicago, IL, USA

54 Dialectical Tensions in Clinical Neuropsychology Supervision – A Narrative Review and Adapted Model

Nicole Weisemberg¹, Mark A Coates¹,²
55 Digital Methods of Delivering Education and Training in Neuropsychology

Ryan Van Patten1,2, 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 Babicz1,2, Anastasia Matchanova1, Robiann Broomfield3, Libby A DesRuisseaux4, Michelle M Gereau4, Stacy L Brothers4, Lauren Radigan3, Erik Porter6, Gregory P Lee5, Lisa J Rapport3, Yana Suchy4, Keith O Yeates6,7,8, 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?
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
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
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 perfluoralkyl 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
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 MacDonald1,2, 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

Franchesca 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 Craig9, Mathieu Dehaes6, Sylvain Deschenes6, Quynh Doan3, Stephen B Freedman2, Bradley G Goodyea1, Jocelyn Gravel6, Andrée-Anne Ledoux9, Roger Zemek6, Catherine Lebel1

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 Miller1,2, 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 Meehan5, Kevin M Guskiewicz4, 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. 2Synaptek 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.⁵, Elan D. Louis, M.D., M.Sc.⁶, 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 DeGutis¹,⁴

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 Feldman1,2, Claire M Champigny1,2, Nomazulu Dlamini2, Peter B Dirks2, Robyn Westmacott2, Mary E Desrocher1,2

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 Mrakotsky1,2, Julie Swanson1, Michael J. Rivkin1,2

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 Bowren1,2, Joel Bruss1, Kenneth Manzel1, Dylan Edwards3,4, Charles Liu6, 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. 6University 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
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 Vrantsidis1, Timothy Hom1, 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 Breen1,2, Maral N Aghvinian1,2, Micah J Savin1,2, Angela C Summers1,2, Jordan T Stiver1,2, Alexander W Slaughter2, Denise S Oleas1,2, Kaleigh E Fidaleo1,2, Cara Crook1,2, Monica G Rivera Mindt1,2
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 Naini1,2, 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 Lee³,¹, Adriana Hughes³,¹
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 Lichtenstein¹,², Kelsey Grodner¹, Jennifer Amato¹,², 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
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 Sundermann7, 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 Ham1,2, Judith D Lobo3,2, Ajay Bharti3,2, Ben Gouaux3,2, Thomas Marcotte3,2, Igor Grant3,2,4, David J Moore3,2

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, Karl 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
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 Tsima2, Ruben C Gur3, 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. Rodríguez, Kayci L. Vickers

Emory University, Atlanta, Georgia, USA

19 Psychological Impact of Pandemic-Related Social Isolation: Exploring Psychiatric Risk and Resilience

Somi Lee1,2, Vincent Koppelmans1, Andrew J. Smith1,2, Joseph U. Kim1,2

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 Hussain1,2,3, Erin E Morgan1,2, Robert K Heaton1,2, Jennifer E Iudicello1,2, Dilip V Jeste1,4,5, David J Moore1,2

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
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 Gottesman2,7,8, Jeremy Walston9, B. Gwen Windham10, Keenan A Walker2,11

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, Jackson, 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 SiblingsFunding 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 Price1,2, Leah Orlinsky1, Maxine H Krenge1,3, Kimberly Sullivan2, Clara G Zundel1,3
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. Spezzaferri1, 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 Tookey2, 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, Joncarlo 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 Talis1,2, 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 Schneider1,2, Dennis D Lin1,3, Xueling Zhang1,3, Carolina Frankini1,2, 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 Okhominia, 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 Krishnamurthy²-¹, 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 Vratsidis¹², Kerry Orton¹, Mariina Lovett¹², H. Gerry Taylor¹²

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. Okhominia², 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 Estepp¹, Jane Hankins¹

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48 A Comparison of Neurodevelopmental Outcomes at 18 months of Children born Preterm to Children Diagnosed with Congenital Heart Disease

Samantha D Roberts¹,², 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 Punt¹,², 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
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

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

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

Neuropsychiatric Effects of SARS-CoV-2 Infection

Chair
Kristine Lokken
UAB, Birmingham, USA

Discussant
Kristine Lokken
UAB, Birmingham, USA

Neurologic Manifestations of COVID-19

Shruti Agnihotri, Stephen Benesh, Kristine Lokken
UAB, Birmingham, AL, USA

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, Riwad 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
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 ε4 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
Adam Brickman
Columbia University, New York, NY, USA

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

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

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

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


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 Sherwood1,2, Brittany Ross1, Justin D Smith3, Leann Dawalt4, Lauren Bishop4,5, 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 Genova1,2, Mikayla Haas1, Yu-Lun Chen1,2, 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
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 Saloner1,2,3, Ni Sun-Suslow1, Erin E Morgan1, Judith D Lobo1, Mariana Cherner1, Ronald J Ellis1,4, 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 Ng1,2, Gray Vargas1, Dasal T Jashar1, Amanda K Morrow1,2, Ellen Henning1, Laura A Malone1,2
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 Pihlaja1,2, 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

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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 Seblova2,3,4, Daniel J Pohl5, Erin R Kulick4,6, Joan A Casey7, Richard Mayeux2,3,4, Jennifer J Manly2,3,4

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.
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 Scott²,³, Alexandra L Clark⁴, Alexandra J Weigand⁵, Danielle L Sanchez¹, Katherine J Bangen⁶,⁷, Michelle R Madore²,³, Kelsey R Thomas⁶,⁷

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