THE DALLAS
Aging & Cognition
CONFERENCE

January 28–30, 2017

Supported by the Center for Vital Longevity, the UT Dallas Department of Behavioral and Brain Sciences and the Office of the Provost.

Dallas Marriott City Center
650 N. Pearl St., Dallas, Texas
Thank you for joining us.

Welcome to the 2017 Dallas Aging & Cognition Conference (DACC), sponsored by the Center for Vital Longevity, the School of Behavioral and Brain Sciences, and the Office of the Provost at The University of Texas at Dallas. This is the fifth DACC—and the first one where the program is primarily submission-driven. The program is organized along one of four themes:

1. Biomarkers of Successful and Unsuccessful Aging
2. Neural Stimulation, Cognitive Training, and Enrichment
3. Cognitive Reserve
4. Neural Organization and Connectivity

An invited speaker will present an overview of the theme followed by related submitted papers. We thank our distinguished colleagues, Bill Jagust, Cindy Lustig, Yaakov Stern, and Cheryl Grady, for presenting the overviews. We have allowed plenty of time for interaction and questions with speakers during the conference, and we are sure many provocative discussions will occur over food and drinks in the evening, as well. We have a full agenda of excellent posters where you will have the opportunity to talk directly with investigators. It is our great pleasure to host the DACC.

Welcome to Dallas!

Warm wishes,

Mick Rugg
Denise Park
Chandramallika Basak
Kristen Kennedy
Karen Rodrigue
Gagan Wig
CONFERENCE WEBSITE. http://vitallongevity.utdallas.edu/events/dacc

DOWNLOAD THE APP. The conference app for the DACC is available in the App Store as well as the Google Play store. You can find it by searching “DACC” on your smart phone. There you will find the conference agenda, the conference program and many other helpful features, such as maps and dining suggestions.

TEXAS BARBEQUE ON SATURDAY NIGHT. You are invited to join Center for Vital Longevity scientists for a Texas-themed dinner and drinks on Saturday, Jan. 28, 2017 at 6:30 pm at the Center for Vital Longevity, 1600 Viceroy Drive, Suite 800, Dallas, TX 75235. Western attire is encouraged but not required. For conference attendees staying at Marriott City Center, continuous transportation will be provided to CVL and back between 6 pm–10 pm via shuttle bus. Look for the shuttle bus that says “DACC to CVL.”

WI-FI ACCESS. Free wi-fi access is available in the conference room using the hotel’s wireless network and the password: DACC2017

LENGTH OF TALKS. The length of each keynote talk is 28 minutes with 12 minutes for questions. Each submitted talk is 15 minutes, with 5 minutes for questions. You will be warned when you have five remaining minutes and two remaining minutes. When your time is up, the moderator will stand. You will have 30 seconds to wrap it up before something embarrassing happens to you.

POSTER PRESENTERS. You will be given a card to affix to your poster at the beginning of the session. The card will allow you to select a time interval when you will not be present so that you can eat lunch or conduct other business, and attendees will know when you are unavailable. The time and length of the interval is up to you.

FOOD. A full breakfast and lunch will be provided Sunday; and on Monday there will be a full breakfast and heavy hors d’oeuvres while lunch is on your own. Dinner Sunday and lunch on Monday are on your own. We also have plenty of snacks during the conference. Coffee and pitchers of water will be continuously available. Seating for lunch is adjacent to the posters area. You will be given a ticket at registration that has one of two times written on it. Following your time will result in less congestion at both the posters and at lunch.

SUNDAY NIGHT. Sign-ups are available for dinner groups on Sunday night, with a restaurant description and price range.

CONFERENCE SURVEY. We strive to make each conference better than the last. We ask that you complete the conference survey. You will receive a paper-and-pencil version just before the end of the conference and also via your email.

DAILY PARKING. Parking at Marriott City Center is $19 per day. Numerous satellite parking options exist around the hotel if you wish to seek lower daily rates.

OTHER MODES OF TRANSPORTATION. Dallas Area Rapid Transit has a train station stop next to the hotel. Uber is readily available and Marriott staff will be happy to call you a cab.

STILL HAVE QUESTIONS? Before the conference, please email us at cvlevents@utdallas.edu or call Chris at 972-883-3200. During the conference, please approach the registration desk or the conference office nearby for help. The cell phone number to be used in the event of an urgent need for assistance is (214) 704-3743.
**SATURDAY, JANUARY 28**

6:30 pm–9:00 pm  Informal Texas BBQ at the Center for Vital Longevity  
*All registrants welcome to attend*

**SUNDAY, JANUARY 29**

8:30 am–8:45 am  Welcome/Orientation to Conference  
*Denise C. Park, Ph.D. & Michael D. Rugg, Ph.D.*

**Session I**  Biomarkers of Successful and Unsuccessful Aging  
*Moderator: Kristen Kennedy, University of Texas at Dallas*

8:45 am–9:25 am  Invited Talk: Imaging the Borderland of Aging and Alzheimer’s Disease  
*William Jagust, M.D., University of California, Berkeley*

9:25 am–9:50 am  Cerebrovascular Contributions to Brain and Cognitive Aging  
*Monica Fabiani, Ph.D., University of Illinois*

9:50 am–10:15 am  Indicators of Altered Noradrenergic Modulation and Adult Age Differences in Emotional Memory  
*Dorothea Hämmerer, Ph.D., University College London*

10:15 am–10:35 am  Serum Protein Mediators of Age’s Association with Dementia  
*Donald Royall, M.D., University of Texas Health Science Center at San Antonio*

10:35 am–10:55 am  Hippocampal Activation is Associated with Longitudinal Amyloid Accumulation and Cognitive Decline  
*Stephanie Leal, Ph.D., University of California, Berkeley*

11:00 am–1:00 pm  Poster Session I and Conference Lunch  
*Posters listed on pages 7-9*
### Session II: Neural Stimulation, Cognitive Training, and Enrichment

**Moderator:** Gagan Wig, University of Texas at Dallas

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm–1:40 pm</td>
<td><strong>Invited Talk: Cognitive Training in Older Adults: Time for a ‘Personalized Medicine’ Approach?</strong></td>
<td>Cindy Lustig, Ph.D.</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>1:40 pm–2:00 pm</td>
<td><strong>Neural Correlates of Aerobic Exercise Benefits to Episodic Memory Function: A Randomized Control Intervention Study in Older Adults</strong></td>
<td>Ana Daugherty, Ph.D.</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>2:00 pm–2:20 pm</td>
<td><strong>The Effects of Different Cognitive Training Modules on Healthy Older Adults and Patients with Mild Cognitive Impairment (MCI): A Comprehensive Meta-Analysis of Randomized Controlled Trials</strong></td>
<td>Chandramallika Basak, Ph.D.</td>
<td>University of Texas at Dallas</td>
</tr>
<tr>
<td>2:20 pm–2:40 pm</td>
<td><strong>Independent Components of Neural Activation Before and After 100 Days of Cognitive Training</strong></td>
<td>Molly Simmonite, Ph.D.</td>
<td>University of Michigan</td>
</tr>
<tr>
<td>2:40 pm–3:00 pm</td>
<td><strong>Direct-Current Stimulation Fails to Improve the Outcome of Working-Memory Training</strong></td>
<td>Martin Lövdén, Ph.D.</td>
<td>Karolinska Institutet</td>
</tr>
<tr>
<td>3:00 pm–4:30 pm</td>
<td><strong>Poster Session II</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**MONDAY, JANUARY 30**

### Session III: Cognitive Reserve and Compensatory Processes

**Moderator:** Chandramallika Basak, University of Texas at Dallas

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>8:00 am–8:40 am</td>
<td><strong>Invited Talk: Cognitive Reserve: An Evolving Concept</strong></td>
<td>Yaakov Stern, Ph.D.</td>
<td>Columbia University</td>
</tr>
<tr>
<td>8:40 am–9:00 am</td>
<td><strong>Cognitive Reserve and Longitudinal Trajectories of AD Biomarkers</strong></td>
<td>Anja Solden, Ph.D.</td>
<td>Johns Hopkins University</td>
</tr>
<tr>
<td>9:00 am–9:20 am</td>
<td><strong>The Default-to-Executive Coupling Hypothesis of Aging: Semanticized Cognition in Older Adulthood</strong></td>
<td>Nathan Spreng, Ph.D.</td>
<td>Cornell University</td>
</tr>
</tbody>
</table>
9:20 am–9:40 am  Reduced Modulation to Difficulty with Age Predicts Poorer Task Performance and Reasoning Ability
Kristen Kennedy, Ph.D., University of Texas at Dallas

9:40 am–10:00 am  Different Subsequent Memory Effect in Healthy Older Adults with Subjective Memory Complaints
Jessica Damoiseaux, Ph.D., Wayne State University

10:00 am–11:30 am  Poster Session III and Break
Posters listed on pages 13-15

Session IV  Neural Organization and Connectivity
Moderator: Karen Rodrigue, University of Texas at Dallas

11:30 am–12:10 pm  Invited Talk: Age Differences in the Dynamic Flexibility of Brain Activity and Functional Connectivity
Cheryl Grady Ph.D., University of Toronto

12:10 pm–12:30 pm  Connectome-Enabled Biomarkers of Connectivity during Aging and Alzheimer’s Disease
Trey Hedden, Ph.D., Massachusetts General Hospital

12:30 pm–12:50 pm  Age-Related Changes to Oscillatory Dynamics in Hippocampal and Neocortical Networks
Jennifer Ryan, Ph.D., Rotman Research Institute

12:50 pm–1:10 pm  Functional Network Organization of the Healthy Adult Lifespan
Gagan Wig, Ph.D., University of Texas at Dallas

1:10 pm–1:30 pm  Preferential Degradation of Connections within Cognitive Networks Differentiates Autosomal Dominant and Preclinical Late-Onset AD from Aging
Jasmeer Chhatwal, Ph.D., Massachusetts General Hospital & Harvard Medical School

1:30 pm–1:45 pm  Closing Remarks
Denise Park, Ph.D., University of Texas at Dallas

Depart for airport at 1:45 pm
DFW 30 to 35-minute taxi ride; Love Field 10 to 15-minute taxi ride.
A-1: Consistent report of Subjective Cognitive Decline is associated with amyloid burden despite APOEε4 carrier status
Sarah L. Aghjayan¹, Elizabeth C. Mormino²,³, Rachel Buckley⁴, Dorene M. Rentz²,³, Reisa A. Sperling¹,²,³, Keith A. Johnson¹,²,³, Rebecca E. Amariglio¹,²,³
¹Brigham and Women’s Hospital, ²Massachusetts General Hospital, ³Harvard Medical School

A-2: No Impairment in a Striatal-Based Task Among Prodromal Autosomal Dominant Alzheimer’s Disease Mutation Carriers
Angelica Boeve¹, Sylvia Larson¹, Jessica R. Petok¹, Catherine E. Myers¹, David M. Wharton¹, Luis D. Medina³, Maria Casado¹, Giovanni Coppola³, Mark A. Gluck⁴, John M. Ringman⁵
¹Saint Olaf College, ²Rutgers-New Jersey Medical School, ³University of California Los Angeles, ⁴Rutgers University, ⁵University of Southern California

A-3: Age associated differences in resting-state network topology predict differences in task-evoked activity
Micaela Y. Chan¹, Fahd Alhazmi¹, Neil K. Savalia¹, Denise C. Park¹,², Phillip F. Agres¹, Gagan S. Wig¹,²
¹University of Texas at Dallas, ²University of Texas Southwestern Medical Center

A-4: Effects of Age on Extrastriatal Dopamine D2 Receptor Availability Are Overestimated without Partial Volume Correction
Jennifer L. Crawford¹, Kendra L. Seaman¹, Aishwarya Vijay¹, David Matuskey¹, Evan D. Morris¹, Gregory R. Samanez-Larkin¹
¹Yale University

A-5: Affect Facilitates Implicit Memory in Older Adults
Cassandra J. Dinius¹, Stephanie Dollinger¹
¹Southern Illinois University

A-6: Differential Effect of APOEε4 Carrier Status on BOLD Activation to Cognitive Difficulty
Chris M. Foster¹, Kristen M. Kennedy¹, Karen M. Rodrigue¹
¹University of Texas at Dallas
A-7: Assessing the Accuracy of Estimating Leisure Activity in Older Adults
Cassandra R. Hatt1, Allison A.M. Bielak1, Tim Windsor2, Morgan Dwyer1
1Colorado State University, 2Flinders University (Adelaide, Australia)

A-8: Relationship between subjective memory assessment and objective memory performance: Differential effects of sex and risk for Alzheimer’s disease
Marci M. Horn1, Kristen M. Kennedy1, Karen M. Rodrigue1
1University of Texas at Dallas

A-9: Dynamic Hippocampal Network Remodeling in Patients with High Amyloid Burden
Min Su Kang1,2, Sara Mohades1,2, Tharick Pascoal1,2,
Sulantha Mathotaarachchi1,2, Jean-Paul Soucy1, Serge Gauthier2,
Pedro Rosa-Neto3,4,5
1Translational Neuroimaging Laboratory, 2McGill Centre for Studying in Aging, 3Brain Imaging Centre—Douglas Research Centre, 4McConnell Brain Imaging Centre—McGill University

A-10: Effects of Age of Onset of Hypertension on Cognitive Decline
Asher Le1, Erica Appleman1, Elise Bohmer2, Yulin Liu2, Sandra Neargarder1,
Alice Cronin-Golomb1, Rhoda Au3
1Boston University, 2Framingham Heart Study, 3Bridgewater State University

A-11: The Role of Working Memory Capacity and Cognitive Load in Producing and Detecting Deception in Younger and Older Adults
Ted Maldonado1, Jessica A. Bernard1, Keith A. Hutchinson1
1Texas A&M University, 2Montana State University

A-12: African Americans with Elevated Beta-Amyloid Show Greater Signs of Neurodegeneration than Whites
Ian M. McDonough1
1The University of Alabama

A-13: Predictors of Verbal Working Memory Plasticity in Younger and Older Adults
Kyle D. Moored1, Katherine A. Cooke1, Benjamin Katz1, Martin Bushkuehl1,
Susanne M. Jaeggi1, Scott J. Peltier1, Thad A. Polk2, John Jonides1,
Patricia A. Reuter-Lorenz1
1Johns Hopkins University, 2University of Michigan, 3MIND Research Institute, 4University of California, Irvine

A-14: Separating Stimulus-Processing and Task-Specific Components of the ERP Dm Waveform
Colin M. Noe1, Simon J. Fischer-Baum1
1Rice University
A-15: White Matter Hyperintensity Location Differentially Predicts Working Memory at Different Points in the Lifespan
Samantha Owens¹, Linh Trieu¹, David A. Hoagey¹, Karen M. Rodriguez¹, Kristen M. Kennedy¹
¹University of Texas at Dallas

A-16: The Effects of Spacing on Working Memory Training Outcome in Older Adults
Chelsea M. Parlett¹, Shafee Mohammed¹, Benjamin Katz², Priti Shah², Chelsea Zabel³, Jacky Au³, Masha Jones¹, Martin Buschkuehl¹, Patricia A. Reuter-Lorenz³, John Jonides³, Susanne M. Jaeggi³
¹University of California Irvine, ²University of Michigan

A-17: Adult Age Differences in Skewed Financial Risk Taking
Kendra L. Seaman¹, Josiah Leong², Brian Knutson², Gregory R. Samanez-Larkin¹
¹Yale University, ²Stanford University

A-18: Past habits and attitudes as predictors of video game learning rates in two genres of video games
Evan T. Smith¹, Alex Hinerman¹, Christian Martin¹, Chandramallika Basak¹
¹University of Texas at Dallas

A-19: Emotional Inhibition in Healthy Older and Younger Adults
Jill D. Waring¹, Taylor Greif¹
¹Saint Louis University

Jordana S. Wynn¹², Rosanna K. Olsen¹, Malcolm A. Binns¹, Bradley R. Buchsbaum¹², Jennifer D. Ryan¹²
¹University of Toronto, ²Rotman Research Institute, Baycrest Hospital

A-21: Funding Opportunities at NSF
Alumit Ishai¹
¹Cognitive Neuroscience Program, National Science Foundation

A-22: Change in processing speed predicts change in other cognitive domains: Four-year longitudinal findings in the Dallas Lifespan Brain Study (DLBS)
Xi Chen¹, Sara B. Festini¹, Ian M. McDonough¹, Denise Park¹, Christopher Hertzog³
¹University of Texas at Dallas, ²The University of Alabama, ³Georgia Institute of Technology
POSTER SESSION II

Sunday, January 29
3:00 pm–4:30 pm

B-1: The role of prior knowledge during automatic and controlled memory retrieval in younger and older adults
  Tarek Amer¹, Kelly S. Giovanello², Cheryl L. Grady¹, Lynn Hasher¹
  ¹University of Toronto, ²University of North Carolina at Chapel Hill

B-2: Greater Fronto-Parietal Modulation with Aging is Associated with Better Cognitive Performance
  Maria A. Boylan¹, Jenny R. Rieck¹, Chris M. Foster¹, Karen M. Rodrigue¹, Kristen M. Kennedy¹
  ¹University of Texas at Dallas

B-3: Statistical Model of Dynamic Markers of the Alzheimer’s Pathological Cascade
  Steve Balsis¹, Lisa Geraci¹, Jared Benge¹, Deborah A. Lowe¹, Tabina K. Choudhury¹, Robert Tirso¹, Rachelle S. Doody¹,²
  ¹Texas A&M University, ²Baylor Scott & White Neurosciences Institute, ³Baylor College of Medicine, ⁴Alzheimer’s Disease Neuroimaging Initiative

B-4: Reliability of Self-Reported Neurological History in Older Adults With and Without Cognitive Impairment
  Nicholas Curcio¹, Kristin Wilmoth¹, Christian LoBue¹, C. Munro Cullum¹
  ¹The University of Texas Southwestern Medical School

B-5: Cognitive Reserve and Amyloid Status: Are Protective Effects Limited by Age?
  Michelle E. Farrell¹, Gerard N. Bischof², Denise C. Park¹
  ¹University of Texas at Dallas, ²University Hospital Cologne

B-6: Functional parcellation of the cerebral cortex across the healthy adult lifespan using resting-state functional connectivity
  Liang Han¹, Neil K. Savalia¹, Micaela Y. Chan¹, Phillip F. Agres¹, Gagan S. Wig¹,²
  ¹University of Texas at Dallas, ²University of Texas Southwestern Medical Center

B-7: Cognitive Reserve Moderates the Relation between Obstructive Sleep Apnea and Executive Function Deficit
  Ei E. Hlaing¹, Stephanie M. Clancy Dollinger¹, Terry M. Brown¹
  ¹Lynchburg College, ²Southern Illinois University Carbondale, ³St. Joseph Memorial Hospital
B-8: Age effects on encoding-related modulation of hippocampo-medial prefrontal connectivity
   Erin D. Horne¹, Marianne de Chastelaine¹, Danielle R. King¹,
   Jonathan T. Siegel¹, Michael D. Rugg¹
   ¹University of Texas at Dallas

B-9: Pre-stimulus subsequent memory effects in healthy young and older adults
   Joshua D. Koen¹, Erin D. Horne¹, Nedra Hauck¹, Michael D. Rugg¹
   ¹University of Texas at Dallas

B-10: Differential Age Effects of Transcranial Stimulation on Face-Name Associative Memory
   Ryan C. Leach¹, Matthew P. McCurdy¹, Michael C. Trumbo¹,
   Laura E. Matzen¹, Eric D. Leshikar¹
   ¹University of Illinois at Chicago

B-11: Differential Aging and Blood Pressure Effects in Regional Corpus Callosum Microstructure
   Stephanie Matijevic¹, Kristen Kennedy¹, David Hoagey¹, Karen Rodrigue¹
   ¹University of Texas at Dallas

B-12: Common Genetic Dopamine Polymorphisms Show Differential Effects on Aging of Frontal, Parietal and Cingulate Thickness
   Giuseppe G. Miranda¹, Karen M. Rodrigue¹, Kristen M. Kennedy¹
   ¹University of Texas at Dallas

B-13: The Impact of Anosognosia and Anosodiaphoria on the Prediction of Progression from Mild Cognitive Impairment to Alzheimer’s Disease
   Catherine E. Munro¹, Nancy J. Donovan¹, Rebecca Amariglio¹,
   Kate V. Papp¹, Gad A. Marshall¹, Dorene M. Rentz¹, Alvaro Pascual-Leone⁴,
   Reisa A. Sperling¹, Patrizia Vannini⁵
   ¹University of Texas at Dallas, ²Harvard Medical School, ³Brigham and Women’s Hospital,
   ⁴Beth Israel Deaconess Medical Center, ⁵Massachusetts General Hospital

B-14: Neuropeptides Predict Cognitive Decline across the Alzheimer’s Spectrum
   Hardeep K. Obhi¹, Brandon S. Klinedinst¹, Joseph L. Webb¹,
   Jennifer A. Margrett¹, Auriel A. Willette¹²
   ¹Iowa State University, ²University of Iowa
B-15: Reading with Robots: Towards an Intelligent Reading Companion that Promotes Cognitive Exercise in Older Adults
Natalie Parde1, Rodney D. Nielsen1
1University of North Texas

B-16: Trajectories of Brain System Maturation from Childhood to Older Adulthood: Implications for Lifespan Cognitive Functioning
Raluca Petrican1, Margot J. Taylor1, Cheryl L. Grady1
1University of Toronto

B-17: How Sleep Physiology is Associated with Memory Function in Older Adults
Stephanie M. Sherman1, David M. Schnyer1
1Boston College, 2University of Texas at Austin

B-18: Longitudinal Change in Diffusivity of Limbic Tracts in a Lifespan Sample of Healthy Adults: Effects on Episodic Memory
Zhuang Song1, Denise C. Park1
1University of Texas at Dallas

B-19: Hippocampal substrates of age-dependent impairment in spontaneous alternation behavior
Rachel M. Wilhelm1, Neha R. Tandon1, Lucien T. Thompson1
1University of Texas at Dallas

B-20: Self-referential Encoding Under Collectivistic Context: A cross-cultural and cross-age study
Wanbing Zhang1, I-Tzu Hong1, Jonathan Jackson1, Joshua Oon Soo Goh1, Angela Gutchess1
1Brandeis University, 2National Taiwan University, 3Massachusetts General Hospital

B-21: Exploring the experience of episodic past, future, and counterfactual thinking in younger and older adults: A study of a Colombian Sample
Felipe De Brigard1, Diana Carolina Rodriguez1, Patricia Montañés2
1Department of Philosophy—Duke University, 2Department of Psychology—National University of Colombia
C-1: Predictive Value of Baseline Resting State and Dopamine Synthesis Capacity for Cognitive Flexibility Performance

Anne S. Berry¹, Vyoma D. Shah¹, William J. Jagust¹
¹University of California, Berkeley

C-2: Integrity of functional connectivity networks presages cognitive decline in preclinical Alzheimer’s disease

Rachel F. Buckley¹,²,³,⁴, Aaron P. Schultz³, Trey Hedden³,⁴, Elizabeth Mormino³,⁴, Kathryn Papp³,⁴, Bernard Hanseeuw³,⁴, Gad Marshall³,⁴, Jorge Sepulcre⁵, Emily Smith⁴, Dorene M. Rentz³,⁴, Keith Johnson³,⁴, Reisa Sperling⁴,⁵, Jasmeer Chhatwal³,⁴
¹Florey Institutes of Neuroscience and Mental Health, ²University of Melbourne, ³Massachusetts General Hospital, ⁴Harvard Medical School, ⁵University of Texas Southwestern Medical Center, ⁶Brigham and Women’s Hospital

C-3: Evaluating CRUNCH: Age Differences in the Neural Response to Varying Working Memory Demand

Katherine A. Cooke¹, Alexandru D. Iordan¹, Kyle D. Moore¹, Benjamin Katz¹, Martin Buschkuehl¹, Susanne M. Jaeggi¹, Thad A. Polk¹, Scott J. Peltier¹, John Jonides¹, Patricia A. Reuter-Lorenz¹
¹University of Michigan, ²Johns Hopkins University, ³MIND Research Institute, ⁴University of California, Irvine

C-4: The relationships between age, fMRI correlates of familiarity and recognition memory

Marianne de Chastelaine¹, Julia T. Mattson¹, Tracy H. Wang¹, Brian E. Donley¹, Michael D. Rugg¹
¹University of Texas at Dallas

C-5: Relative contributions of lifestyle and health factors to cognition across the adult lifespan

Sara B. Festini¹, Michelle E. Farrell¹, Xi Chen¹, Denise C. Park¹
¹University of Texas at Dallas

C-6: Robust Estimates of Cognitive Aging in Healthy Older Adults

Karra D. Harrington¹, Yen Ying Lam¹, David Ames², Jason Hassenstab³, Stephanie Rainey-Smith⁴, Joanne Robertson⁴, Olivier Salvado⁵, Colin L. Masters⁵, Paul Maruff⁵
¹The Florey Institute of Neuroscience and Mental Health, ²The University of Melbourne, ³Washington University School of Medicine, ⁴Edith Cowan University, ⁵CSIRO Preventative Health National Research Flagship
C-7: Age-Related Reduction in Fronto-Posterior Tracts is Associated with Poorer Executive Function across the Lifespan
David A. Hoagey¹, Karen M. Rodrigue¹, Kristen M. Kennedy¹
¹University of Texas at Dallas

C-8: Functional polymorphisms in BDNF associated with feedback-based cognitive sequence learning in younger and older adults
Sylvia P. Larson¹, Angelica R. Boeve¹, Mark A. Gluck², Jessica R. Petok¹
¹Saint Olaf College, ²Center for Molecular and Behavioral Neuroscience

C-9: Level of Constraint Influences the Generation Effect for Item and Context Memory in Younger but not Older Adults
Matthew P. McCurdy¹, Ryan C. Leach¹, Eric D. Leshikar¹
¹University of Illinois at Chicago

C-10: Medial Temporal, Prefrontal, and Parietal Contributions to the Functional Networks Underlying Item and Source Memory in Older Adults
Zachary A. Monge¹, Matthew L. Stanley¹, Benjamin R. Geib¹, Simon Davis¹, Roberto Cabeza¹
¹Duke University

C-11: Age-related differences in task load, response compatibility and selective attention during multitasking: An fMRI study
Kaoru Nashiro¹, Shuo Qin¹, Margaret O’Connell¹, Chandramallika Basak²
¹University of Southern California, ²University of Texas at Dallas

C-12: Age-related differences in the relationship between structural integrity and task-related functional connectivity in a cognitive control task
Margaret A. O’Connell¹, Nicholas R. Ray¹, Shuo Qin¹, Kaoru Nashiro¹, Chandramallika Basak¹
¹University of Texas at Dallas

C-13: A lifespan approach to understanding the relationship of Amyloid Beta deposition to obesity: Results from the Dallas Lifespan Brain Study
Allison N. Parker¹, Michelle E. Farrell¹, Melissa M. Rundle¹, Denise C. Park¹
¹University of Texas at Dallas
C-14: Effect of previous knowledge and repeated testing on long-term retention of old and young adults
Alda Rivas¹, Margaret Beier¹
¹Rice University

C-15: Speech-in-noise Training in Older Adults
Kirsten E. Smayda¹, Bharath Chandrasekaran
¹University of Texas at Austin

C-16: White Matter Hyperintensity Burden in a Healthy Aging Sample: Effects on Inhibitory Processing
Linh Trieu¹, Samantha Owens¹, David A. Hoagey¹, Karen M Rodrigue¹, Kristen M. Kennedy¹
¹University of Texas at Dallas

C-17: A Novel Theoretical Life Course Framework for Triggering Cognitive Development Across the Lifespan
Rachel Wu¹, George Rebok¹, Feng Yankee Lin¹
¹University of California, Riverside, ²Johns Hopkins University, ³University of Rochester Medical Center

C-18: Age and Neural Modulation of BOLD Response to Task Difficulty: The Protective Effects of Crystallized Knowledge
Zhang Jingting¹, Zhuang Song¹, Patricia A. Reuter-Lorenz¹, Denise C. Park¹
¹University of Texas at Dallas, ²University of Michigan, Ann Arbor

C-19: Global White Matter Diffusion Characteristics Predict Longitudinal Cognitive Change in Healthy Older Adults
Jennifer S. Rabin¹, Rodrigo Peraea¹, Rachel Buckley¹,², Keith A. Johnson¹, Reisa A. Sperling¹,², Trey Hedden¹
¹Massachusetts General Hospital, ²University of Melbourne

C-20: Age-related differences in the organization of large-scale functional brain networks during successful memory formation
Neil K. Savalia¹, Fahd Alhazmi¹, Micaela, Y. Chan¹, Gagan S. Wig¹,²
¹University of Texas at Dallas, ²Department of Psychiatry, University of Texas Southwestern Medical Center

The Center for Vital Longevity thanks Akin Gump Strauss Hauer & Feld LLP for their contributions to the biennial Dallas Aging & Cognition Conference.