

● Monday, November 16

2:15 p.m.
3:15 p.m.

POSTER WALKING TOUR

3:15 p.m.
3:25 p.m.

Welcome Ceremony &

CTAD Lifetime Achievement Award in Alzheimer's Disease Therapeutic Research

Presented to Jeffrey Cummings, MD, in recognition of his foundational contributions to clinical trial methodology, drug development frameworks, and his decades of leadership in advancing the field through the annual Alzheimer's disease drug development pipeline analyses.

Introduction by the CTAD Organizing Committee

Reisa Sperling, Brigham and Women's Hospital Harvard Medical School, Boston (United States)

Paul Aisen, Alzheimer's Therapeutic Research Institute, University of Southern California, San Diego, CA (United States)

Sandrine Andrieu, Toulouse University Hospital and INSERM 1295, Toulouse (France)

Jacques Touchon, Montpellier University, Montpellier (France)

Bruno Vellas, IHU HealthAge, Toulouse University, Toulouse (France)

Mike Weiner, UCSF, San Francisco, CA (United States)

3:25 p.m.
3:50 p.m.

KEYNOTE 1

New Molecules in Phase 2b – Proof of Concept and Beyond

Jeffrey Cummings, University of Nevada Las Vegas (UNLV), Las Vegas, NV (United States)

Introduction: Bruno Vellas, IHU HealthAge, Toulouse University, Toulouse (France)

3:50 p.m.
4:50 p.m.

ORAL COMMUNICATIONS

3:50 p.m.

OC1 Top-Line Results of SINGER: A Two-Year Randomized Controlled Trial of Multidomain Lifestyle Intervention to Prevent Cognitive Decline

Kwong Hsia Yap¹, Liang Shen², David Matchar^{3,4}, Helen Zhou^{5,6}, Mitchell Kim Peng Lai⁷, Xin Xu⁸, Cynthia Huijun Chen⁹, Laura Baker¹⁰, Miia Kivipelto^{11,12,13}, Nagaendran Kandiah¹⁴, Christopher Chen^{1,7}

¹Memory, Ageing and Cognition Centre (MACC), Department of Pharmacology, Yong Loo Lin School of Medicine, National University of Singapore - Singapore (Singapore), ²Singapore Clinical Research Institute - Singapore (Singapore), ³Health Services and Systems Research Programme, Duke-NUS Medical School - Singapore (Singapore), ⁴Division of General Internal Medicine, Department of Medicine, Duke University, Durham - North Carolina (United States), ⁵Centre for Sleep and Cognition, Yong Loo Lin School of Medicine, National University of Singapore - Singapore (Singapore), ⁶Department of Electrical and Computer Engineering, National University of Singapore, - Singapore (Singapore), ⁷Department of Pharmacology, Yong Loo Lin School of Medicine, National University of Singapore - Singapore (Singapore), ⁸School of Public Health and the Second Affiliated Hospital, Zhejiang University School of Medicine, Hangzhou, - Zhejiang (China), ⁹Saw Swee Hock School of Public Health, National University of Singapore - Singapore (Singapore), ¹⁰Department of Internal Medicine, Wake Forest University School of Medicine, Winston-Salem - North Carolina (United States), ¹¹Department of Neurobiology, Care Sciences and Society, Division of Clinical Geriatrics, Center for Alzheimer Research, Karolinska Institutet, - Stockholm (Sweden), ¹²Ageing Epidemiology Research Unit, School of Public Health, Imperial College London - London (United Kingdom), ¹³Institute of Public Health and Clinical Nutrition, University of Eastern Finland - Kuopio (Finland), ¹⁴Dementia Research Centre (Singapore), Lee Kong Chian School of Medicine, Nanyang Technological University - Singapore (Singapore)

4:05 p.m.

OC2 POLARIS-AD: A Global Phase 3 Trial of AR1001 in Early Alzheimer's Disease: Efficacy Outcomes at 52 Weeks and Safety Through the Extension Phase

Sharon Sha¹, Alireza Atri², Fernando Melgar-Somoza³, Marzena Zboch⁴, Do Hoon Kim⁵, Yi Tang⁶, Jennifer Lynch⁷, Howard Chertkow⁸, Sangyun Kim⁹, David Greeley¹⁰, James Rock¹¹, Fred Kim¹¹, Tianyang Xi¹¹, Jai Jun Choung¹¹

¹Stanford - Palo Alto (United States), ²Banner Sun Health Research and Banner Alzheimer's Institutes - Sun City (United States), ³Melgar-Caro MedCenter and Community Research - Miami (United States), ⁴Wroclawskie Centrum Alzheimerowski - Wroclaw (Poland), ⁵Chuncheon Sacred Heart Hospital - Chuncheon (Republic of Korea), ⁶Xuanwu Hospital Capital Medical University - Beijing (China), ⁷Glasgow NeuroClin - Motherwell (United Kingdom), ⁸Baycrest Centre for Geriatric Care - Ontario (Canada), ⁹Seoul National University College of Medicine - Seoul (Republic of Korea), ¹⁰Northwest Neurological - Spokane (United States), ¹¹Aribio Co., Ltd - San Diego (United States)

4:20 p.m.

OC3 Ultrasensitive Immunoassay for Plasma eMTBR-243 Quantification

Alpana Singh¹, Marisa Denkinger¹, Geidy E. Serrano¹, Thomas G. Beach¹, Eric M. Reiman², Shorena Janelidze³, Oskar Hansson³, Niklas Mattsson-Carlsson³, Pedro Rosa Neto⁴, Nicholas Ashton¹

¹Banner Sun Health Research Institute - Sun City (United States), ²Banner Alzheimer's Institute - Phoenix (United States), ³Lund University - Lund (Sweden), ⁴UT Southwestern Medical Center - Austin (United States)

4:35 p.m.

OC4 Plasma p-tau217 outperforms neuroimaging biomarkers in predicting the risk of cognitive impairment in a multi-cohort study

Colin Birkenbihl¹, Madison Cuppels¹, Diana Townsend¹, Gillian Coughlan¹, Mabel Seto¹, Jane Brown¹, Michael Properzi¹, Annie Li¹, Bryan James², Robert Rissman³, Melissa Petersen⁴, Tobey Betthausen⁵, Doreen Rentz¹, Reisa Sperling¹, Rachel Buckley¹

¹Mass General Brigham - Boston (United States), ²Rush Alzheimer's Disease Center - Chicago (United States), ³University of Southern California - Los Angeles (United States), ⁴University of North Texas - Fort Worth (United States), ⁵University of Wisconsin-Madison - Madison (United States)

4:50 p.m.

5:30 p.m.

SYMPOSIUM 1

Visualizing the Brainshuttle™: Pioneering neuroimaging and mechanistic insights of amyloid clearance with trontinemab

Chair: Tammie L.S. Benzinger, Washington University in St. Louis -St. Louis, Missouri, (United States)

Presentation 1 Brain delivery and distribution of the novel Brainshuttle™ Aβ-targeting antibody trontinemab in participants with Alzheimer's disease measured with ⁸⁹Zr positron emission tomography
Elsmarieke Van De Giessen, Amsterdam UMC, Vrije Universiteit - Amsterdam (The Netherlands)

Presentation 2 Trontinemab in Alzheimer's disease – novel pharmacodynamic insights from the ongoing Phase Ib/IIa Brainshuttle™ AD study
Luka Kulic, F. Hoffmann-La Roche Ltd - Basel (Switzerland)

Presentation 3 Advanced imaging results from the Brainshuttle™ AD study with trontinemab in Alzheimer's disease
Gregory Klein, F. Hoffmann-La Roche Ltd - Basel (Switzerland)

5:30 p.m.

6:15 p.m.

LATE BREAKING

Late Breaking Communications

6:15 p.m.

7:15 p.m.

CTAD WELCOME RECEPTION with the Support of the Alzheimer's Association



● Tuesday, November 17

7:30 a.m.
8:30 a.m.

POSTER WALKING TOUR

8:30 a.m.
9:10 a.m.

SYMPOSIUM 2

When Target Engagement Is Not Enough: Lessons from Posdinemab on Bridging Tau Biology to Clinical Outcomes

Chair: Fiona Elwood, Johnson & Johnson, Cambridge, MA, USA

Presentation 1 Spatial Determinants of Posdinemab's Effect on Tau PET

Ziad S. Saad, Johnson & Johnson, San Diego, CA (United States)

Presentation 2 CSF and Plasma Biomarker Changes After Anti-Tau Therapy: Fluid Biomarker Results from the Autonomy Phase 2 Clinical Trial

Gallen Triana-Baltzer, Johnson & Johnson, San Diego, CA (United States)

Presentation 3 Biomarker Associations with Cognition: Results from the Autonomy Phase 2 Clinical Trial

Gil D. Rabinovici, University of California, San Francisco (UCSF) - San Francisco, CA (United States)

9:10 a.m.
9:35 a.m.

KEYNOTE 2

A Glimpse of the Future: How Diagnostics, Therapies, Trials, and Concepts of Prevention Must Evolve

Geoffrey A. Kerchner, MD, Vice President and Global Head of Neurodegeneration, F. Hoffmann-La Roche, Ltd., Basel (Switzerland)

Introduction: Reisa Sperling, Brigham and Women's Hospital Harvard Medical School - Boston (United States)

9:35 a.m.
10:35 a.m.

ORAL COMMUNICATIONS

9:35 a.m.

OC5 Efficacy and Safety of Remlifanserin in Patients With Alzheimer's Disease Psychosis

Sanjeev Pathak¹, Clive Ballard², Jeffrey Cummings³, Samantha Friend⁴, Becky Howell¹, Christine Murphy⁴, Xiaoshu Feng¹, Mona Darwish¹, Bryan Dirks¹

¹Acadia Pharmaceuticals Inc. - Princeton (United States), ²University of Exeter Medical School - Exeter (United Kingdom), ³Kirk Kerkorian School of Medicine, University of Nevada - Las Vegas (United States), ⁴Acadia Pharmaceuticals Inc. - San Diego (United States)

9:50 a.m.

OC6 Clinical Evidence for Disease Modification by Amyloid-Targeting Antibodies

Lon Schneider¹, Guoqiao Wang², Richard Kennedy³, Gary Cutter³, Robert Howard⁴

¹USC Keck School of Medicine - Los Angeles (United States), ²Washington University in St. Louis - St. Louis (United States), ³University of Alabama, Birmingham - Birmingham (United States), ⁴University College London - London (United Kingdom)

10:05 a.m.

OC7 Topline results from the Phase 2b PRIus-AD trial: Safety and efficacy of oral PRI-002 in early AD

Oliver Peters^{1,2}, Dagmar Jürgens^{2,3}, Gerhard Tischler³, Tina Bartsch³, Lorenzo Bulli³, Katja Lindner³, Julie-Anne Gabelich³, Julia Post-Schulz³, Gunther Kauselmann^{2,3}, Knut Adermann^{2,3}, Kathrin Zeiger³, Alexander Brener³, Dieter Willbold^{2,4}

¹Charité - Universitätsmedizin Berlin - Berlin (Germany), ²Priavoid - Düsseldorf (Germany), ³PRInnovation - Düsseldorf (Germany), ⁴Institut für Pysikalische Biologie, Heinrich-Heine Universität Düsseldorf - Düsseldorf (Germany)

10:20 a.m.

OC8 Sex Differences in Plasma p-tau217, Amyloid- β , and Tau-PET in Cognitively Unimpaired Adults from the AHEAD International Screening Cohort

Gillian Coughlan¹, Madison Cuppels¹, Aaron Schultz¹, Keith Johnson¹, Robert Rissman², Doris Molina-Henry², Michael Donohue², Oliver Longford², Paul Aisen², Joel Braunstein³, Michael Irizarry⁴, Shobha Dhadda⁴, Rachel Buckley¹, Reisa Sperling¹, Ahead 3-45 Study Team⁵

¹Mass General Brigham, Department of Neurology - Boston (United States), ²University of Southern California Alzheimer Therapeutic Research Institute - San Diego (United States), ³C²N Diagnostics - St. Louis (United States), ⁴EISAI - Nutley (United States), ⁵University of Southern California, Alzheimer Clinical Trials Consortium - San Diego (United States)

10:35 a.m.

11:05 a.m.

Coffee Break — Poster Session and Rising Star Showcase

11:05 a.m.

11:45 a.m.

SYMPOSIUM 3

Remote Digital Biomarkers in Alzheimer's Disease Clinical Trials: From Scalable Prescreening to Sensitive AI-Enabled Assessment

Co-chairs: Gustavo A. Jimenez-Maggiora, Alzheimer's Therapeutic Research Institute (ATRI), Epstein Family Center for Alzheimer's Disease Research, Keck School of Medicine of USC, San Diego, CA – (United States)
Duygu Tosun, — University of California, San Francisco (UCSF) - San Francisco, CA (United States)

Presentation 1 The voice Clinical Dementia Rating® (vCDR) to facilitate clinical assessment for dementia research and trials using a generative AI powered conversational agent

Rachel L. Nosheny, University of California, San Francisco (UCSF) - San Francisco, CA (United States)

Presentation 2 Using digital multi-day learning curves for scalable early detection and tracking of subtle cognitive decline in preclinical AD

Kathryn V. Papp, Center for Alzheimer Research and Treatment, Brigham and Women's Hospital and Massachusetts General Hospital; Harvard Medical School - Boston, MA (United States)

Presentation 3 Real world feasibility, utility and generalizability of self-administered speech-based testing for scalable pre-screening for Mild Cognitive Impairment: results from the full ADNI4 digital cohort

Emil Fristed, Novoic Ltd.; Coagen Limited – London (United Kingdom)

11:45 a.m.

12:20 p.m.

BIOTECH SHOWCASE

Biotech Showcase and introductory panel

BIOTECH SHOWCASE 1 Phase 2a AD Trial Results: NTRX-07 Reduces Neuroinflammation and Inhibits Neurodegeneration Following 28-days of Treatment

Joseph Foss¹, Marianna Kiraly¹, Peter Kovacs², Tony Giordano¹
¹NeuroTherapia, Inc. - Cleveland (United States), ²CRU Global - Budapest (Hungary)

BIOTECH SHOWCASE 2 A Next-Generation circRNA Blood Biomarker Platform for Alzheimer's Disease Detection, Progression Prediction, and Clinical Deployment

Nikolaos Mellios¹, Bridget Phillips², Jessie Sanford², Vaibhav Janve³, Grigorios Papageorgiou³, John Morris², Joel Perlmutter², Paul Kotzbauer², Richard Perrin², Timothy Hohman³, Laura Ibanez², Carlos Cruchaga²

¹Circular Genomics - San Diego (United States), ²Washington University School of Medicine - St. Louis (United States), ³Vanderbilt University Medical Center - Nashville (United States)

BIOTECH SHOWCASE 3 Sinaptica Therapeutics, Inc. ~ Precuneus-directed TMS-EEG precision-neuromodulation platform

Giacomo Koch¹

¹Sinaptica Therapeutics - Cambridge (United States)

12:20 p.m.

1:35 p.m.

Lunch and poster sessions

1:35 p.m.
2:35 p.m.

ORAL COMMUNICATIONS

1:35 p.m.

OC9 A Unified Timeline of Alzheimer's Disease: Linking Amyloid- β to Cognitive Decline

Rosita Shishegar¹, Timothy Cox², Marcela Cespedes³, Suzanne Schindler⁴, Tammie Benzinger⁵, Christopher C. Rowe⁶, Christopher J. Fowler⁷, Stephanie R. Rainey-Smith^{8,9,10}, Simon Laws¹¹, Mike Weiner¹², John Morris⁴, Colin L. Masters¹³, Hamid Sohrabi¹⁴, Paul Maruff¹⁵, James D Doecke^{3,11}

¹The Australian e-Health Research Centre, CSIRO - Parkville (Australia), ²The Australian e-Health Research Centre, CSIRO - Canberra (Australia), ³The Australian e-Health Research Centre, CSIRO - Herston (Australia), ⁴Department of Neurology, Washington University School of Medicine - St Louis (United States), ⁵Washington University School of Medicine - St Louis (United States), ⁶Austin Health - Heidelberg (Australia), ⁷The Florey Institute, The University of Melbourne - Parkville (Australia), ⁸Australian Alzheimer's Research Foundation - Perth (Australia), ⁹Centre for Precision Health and Collaborative Genomics Group, School of Medical and Health Sciences, Edith Cowan University - Joondalup, ¹⁰Centre for Healthy Ageing, Health Future Institute, Murdoch University - Murdoch, ¹¹Centre for Precision Health and Collaborative Genomics Group, School of Medical and Health Sciences, Edith Cowan University - Joondalup (Australia), ¹²University of California San Francisco, San Francisco, CA, USA; San Francisco Veterans Affairs Medical Center - San Francisco (United States), ¹³Alzheimer's Research Australia, University of Western Australia - Perth (Australia), ¹⁴Centre for Healthy Ageing, Health Future Institute, Murdoch University - Murdoch (Australia), ¹⁵Cogstate Ltd. - Parville (Australia)

1:50 p.m.

OC10 When Plasma ptau217 and A β PET Disagree: Factors Associated With Biomarker Concordance and Discordance Across Ethnoracial Groups

Mahnaz Shekari¹, Tessa Harrison¹, Yishu Chao¹, Robert Rissman², Sid O'Bryant³, Petersen Melissa⁴, William J Jagust¹, Susan M. Landau¹

¹University of California - Berkeley (United States), ²University of California - San Diego (United States), ³University of North Texas Health Science Center - Texas (United States), ⁴Institute for Translational Research, University of North Texas Health Science Center - Texas (United States)

2:05 p.m.

OC11 Lecanemab Treatment in Real-World Settings Across Multiple Countries: A Meta-Analysis on ARIA Rates and Safety Profiles in Clinical Practice

Samuel Dickson¹, John Whetten¹, Chenge Zhang¹, Suzanne Hendrix¹, Katherine Youmans-Kidder², Daryl Jones²

¹Pentara Corporation - Salt Lake City (United States), ²Eisai Inc. - Nutley (United States)

2:20 p.m.

OC12 Detecting cognitive decline in preclinical AD over 1.5 years using digital cognitive assessments

Hairin Kim¹, Mark Dubbelman¹, Lex Minto¹, Daniel Soberanes¹, Vivienne Lubbat¹, Dorene Rentz¹, Gad Marshall¹, Reisa Sperling¹, Laura Baker², Mark Espeland², Susan Landau³, Rebecca Amariglio¹, Kathryn Papp¹

¹Department of Neurology, Massachusetts General Hospital, Harvard Medical School - Boston (United States), ²Department of Internal Medicine, Wake Forest University School of Medicine - Winston-Salem (United States), ³Helen Wills Neuroscience Institute (SL), University of California - Berkeley (United States)

2:35 p.m.
3:15 p.m.

SYMPOSIUM 4

Neuroinflammation in Alzheimer's Disease: Targeting the NLRP3 Inflammasome and Neuroimmune Crosstalk

Chair: Malú Gámez Tansey, Neuroscience Research Institute, Indiana University School of Medicine – Indianapolis, IN (United States)

Presentation 1 Central-Peripheral Neuroimmune Crosstalk: Targeting Immune Dysfunction to Reduce Neurodegenerative Disease Progression

Malú Gámez Tansey, Neuroscience Research Institute, Indiana University School of Medicine – Indianapolis, IN (United States)

Presentation 2 NLRP3 regulates microglial immune and metabolic function in dementia

Róisín M. McManus, German Center for Neurodegenerative Diseases (DZNE), Venusberg Campus - Bonn (Germany)

Presentation 3 The NLRP3 inflammasome as a therapeutic target in Alzheimer's disease: biomarker, preclinical evidence and Phase I healthy participants' safety data of the oral inhibitor RG6434

Gennaro Pagano, F. Hoffmann-La Roche Ltd - Basel (Switzerland)

3:15 p.m.
4:15 p.m.

ORAL COMMUNICATIONS

3:15 p.m.

OC13 Treatment with Pepinemap, Anti-SEMA4D Blocking Antibody, Reduces a Unique Astrocyte Subset (Ast10) Correlated with Cognitive Decline and Associated Biomarkers of Synaptic Loss in People with Early-Stage AD

[Elizabeth Evans](#)¹, Terrence Fisher¹, Leslie Balch¹, Natacha Comandante-Lou², Vikas Mishra¹, John Leonard¹, Loretta Mueller¹, Alan Howell¹, Charlotte E. Teunissen³, Lisa Vermunt³, Anton Porsteinsson⁴, Hyun Keun Cho⁵, Howard H. Feldman⁵, Lon Scheider⁶, Maurice Zauderer¹

¹Vaccinex, Inc - Rochester (United States), ²Columbia University Irving Medical Center - New York (United States), ³Amsterdam UMC - Amsterdam (The Netherlands), ⁴University of Rochester, *on behalf of SIGNAL-AD investigators - Rochester (United States), ⁵University of California, San Diego - San Diego (United States), ⁶University of Southern California, Keck School of Medicine - Los Angeles (United States)

3:30 p.m.

OC14 Plasma Tau Isomerization at Residue D54 as a Scalable Biomarker of Brain Tau Aggregation in Early-Onset Alzheimer's Disease

[Nicolas R. Barthelemy](#)¹, Soumya Mukherjee¹, Yingxin He¹, Vitaliy Ovod¹, Kanta Horie¹, Rama Koppiseti¹, Ani Eloyan², Dustin B. Hammers³, Kelly N. Nudelman³, Maria C. Carrillo⁴, Bradford C. Dickerson⁵, Gil D. Rabinovici⁶, Liana G. Apostolova³, Randall J. Bateman¹, Jeffrey L. Dage¹

¹Washington University - St. Louis (United States), ²Brown University - Providence (United States), ³Indiana University - Indianapolis (United States), ⁴Alzheimer's Association - Chicago (United States), ⁵Harvard Medical School - Charlestown (United States), ⁶UCSF - San Francisco (United States)

3:45 p.m.

OC15 Preventing Dementia with Shingles Vaccination? Evidence from Quasi-Randomized Vaccine Rollouts

Richard Haarbarger¹, James Mbinta², Siu Yuat Wong¹, Alex Wang², Colin Simpson³, Noah Stegehuis¹, Till Baernighausen⁴, Greg Martin⁵, Yoram Barak⁶, Andrew Sporle³, Aliitasi Su'a-Tavalla², [Pascal Geldsetzer](#)¹

¹Stanford University - Stanford (United States), ²Victoria University - Wellington (New Zealand), ³University of Auckland - Auckland (New Zealand), ⁴Heidelberg University - Heidelberg (Germany), ⁵New Zealand Ministry of Health - Wellington (New Zealand), ⁶Dunedin School of Medicine - Dunedin (New Zealand)

4:00 p.m.

OC16 Metabolic-Inflammatory Burden Identifies Attenuated Responders to Lifestyle Intervention and Supports GLP-1RA Combination-Trial Design: Evidence from the FINGER study

[Adrian Noriega De La Colina](#)^{1,2,3}, Arvid Gollwitzer^{1,2}, Anna Matton^{4,5,6}, Francesca Mangialasche^{7,5,6}, Li-Huei Tsai^{1,8}, Alina Solomon^{6,4,9}, Tiia Ngandu^{6,9}, Giovanni Traverso^{1,2,3,10}, Miia Kivipelto^{4,5,11}

¹Broad Institute of MIT and Harvard - Cambridge (United States), ²Massachusetts Institute of Technology - Cambridge (United States), ³Brigham and Women's Hospital - Boston (United States), ⁴Division of Clinical Geriatrics, Centre for Alzheimer Research, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet - Solna (Sweden), ⁵Division of Neurogeriatrics, Centre for Alzheimer Research, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet - Solna (Sweden), ⁶FINGERS Brain Health Institute - Stockholm (Sweden), ⁷Division of Clinical Geriatrics, Centre for Alzheimer Research, Department of Neurobiology, Care Sciences and Society, Karolinska Institutet - Solna (Sweden) - Solna (Sweden), ⁸The Picower Institute for Learning and Memory - Cambridge (United States), ⁹Institute of Clinical Medicine/Neurology, University of Eastern Finland - Kuopio (Finland), ¹⁰Koch Institute for Integrative Cancer Research, MIT - Cambridge (United States), ¹¹FINGERS Brain Health Institute - Stockholm (Sweden)

4:15 p.m.
4:45 p.m.

Coffee Break — Poster Session and Rising Star Showcase

4:45 p.m.
5:25 p.m.

LATE BREAKING LATE BREAKING SYMPOSIUM 1

● Wednesday, November 18

7:30 a.m.
8:30 a.m.

POSTER WALKING TOUR

8:30 a.m.
9:30 a.m.

LATE BREAKING LATE BREAKING COMMUNICATIONS

9:30 a.m.
9:55 a.m.

KEYNOTE 3

Integration of Fluid Imaging and other Multimodal Biomarkers towards Optimizing Disease Understanding and New Therapeutics

Susan Landau, PhD, Research Neuroscientist, Helen Wills Neuroscience Institute University of California, Berkeley, CA (United States)

Introduction: Michael Weiner, University of California, San Francisco – San Francisco, CA (United States)

9:55 a.m.
10:35 a.m.

ORAL COMMUNICATIONS

Session on Study Design and Phase 1/Phase 2a Studies

9:55 a.m.

OC17 PrevenTRON: Evaluating the effect of trontinemab in cognitively unimpaired individuals with biomarkers of Alzheimer's disease at high risk of clinical decline

Reisa Sperling¹, Catherine Mummery², Jeffrey L. Cummings³, Gil Rabinovici⁴, Stephen Salloway⁵, Henrik Zetterberg⁶, Juan Fortea⁷, Frank G. Boess⁸, Christopher Lane⁹, Marion Monchalin⁸, Paul Delmar⁸, Luka Kulic⁸, Hanno Svoboda⁸, Geoffrey A. Kerchner⁸, Janice Smith⁹

¹Center for Alzheimer Research and Treatment, Brigham and Women's Hospital, Massachusetts General Hospital, Harvard Medical School - Boston (United States), ²Queen Square Institute of Neurology, University College London - London (United Kingdom), ³Chambers-Grundy Center for Transformative Neuroscience, Kirk Kerkorian School of Medicine, University of Nevada Las Vegas - Las Vegas (United States), ⁴Weill Institute for Neurosciences, Department of Radiology and Biomedical Imaging, University of California San Francisco - San Francisco (United States), ⁵Warren Alpert Medical School, Brown University - Providence (United States), ⁶Institute of Neuroscience and Physiology, Sahlgrenska Academy, University of Gothenburg - Mölndal (Sweden), ⁷Sant Pau Memory Unit, Neurology Department, Hospital de la Santa Creu i Sant Pau, Biomedical Research Institute Sant Pau, Universitat Autònoma de Barcelona, Carrer de Sant Antoni Maria Claret - Barcelona (Spain), ⁸F. Hoffmann-La Roche Ltd - Basel (Switzerland), ⁹Roche Products Ltd - Welwyn Garden City (United Kingdom)

10:05 a.m.

OC18 A Prospective, Observational, Fully Decentralized Global Study to Identify Individuals for Alzheimer's Disease Clinical Trials Using Digital Cognitive Assessments and Blood-Based Biomarkers

Jennifer Murphy¹, Joaquin Penalver De Andres², Josh Guo², Katie King², Richard Haslop², Matt Gifford², Luis Castelo Branco², Carrie Rubel², Peggy Kennedy², Ellen Huang², David Clifford²

¹Biogen - San Francisco, CA (United States), ²Biogen - Cambridge, MA (United States)

10:15 a.m.

OC19 Results of a Phase 1 Trial of Intracerebroventricular Injection of Autologous, Wnt-Activated, Adipose-Derived Stem Cells for Alzheimer's Disease; a First-in-Human Study

Christopher Duma¹, Jessica Buxton², Hans Keirstead³, Gabriel Nistor², Robert Lynn², Sawyer Farmer², Ashley Harris², Karlyssa Chung², Nathaniel Cho², Zoe Hareng², Jason Bock², Benjamin Rapaport², Gustavo Alva¹

¹Hoag Memorial Hospital - Newport Beach, CA (United States), ²Regeneration Biomedical, Inc. - Newport Beach, CA (United States), ³Aivita Biomedical, Inc. - Irvine, CA (United States)

10:25 a.m.

OC20 A phase 2 randomized, controlled trial of MK-2214, a novel antibody targeting pS413 tau, in early Alzheimer's disease: Study rationale and design

W. Joseph Herring¹, Yuchuan Wang¹, Li He¹, Yuki Mukai¹, Christine Furtek¹, Angela Gee¹, Andrei Popescu¹, Seth Robey¹, Michael F. Egan¹

¹Merck & Co., Inc. - Rahway, NJ (United States)

10:35 a.m.
11:05 a.m.

Coffee Break — Poster Session and Rising Star Showcase

11:05 a.m.
11:25 a.m.

BIOTECH SHOWCASE

Biotech Showcase and introductory panel

BIOTECH SHOWCASE 4 A First-in-Class CNS-Penetrant Small Molecule Targeting APOE4-mediated Neurovascular Dysfunction in Alzheimer's Disease

Caghan Kizil¹, Badri Vardarajan¹, Richard Mayeux¹

¹Department of Neurology, Columbia University Irving Medical Center - New York City (United States) Late breaking Biotech Showcase sessions

11:25 a.m.
12:05 p.m.

SYMPOSIUM 5

Lecanemab Three Years Post-Approval: A Comprehensive Multicenter, Real-World, Retrospective Study (LEADER) in Diverse US Clinical Settings

Chair: Marwan Sabbagh, Barrow Neurological Institute - Phoenix, AZ (United States)

Presentation 1 Real-World Lecanemab Utilization and Outcomes from Initiation Through Maintenance Therapy in Early Alzheimer's Disease: A Multicenter Retrospective Study (LEADER)

Jose Soria, The Neuron Clinic - Chula Vista, CA (United States)

Presentation 2 Sex-Based Outcomes of Lecanemab in Early Alzheimer's Disease: A Multicenter, Real-World, Retrospective Study (LEADER)

Tinatin Chabrashvili, SUNY Upstate Medical University - New York, NY (United States)

Presentation 3 At-Home Subcutaneous Lecanemab Administration: A Multicenter, Real-World, Retrospective Study (LEADER)

Brent Berry, Minneapolis Clinic of Neurology - Minneapolis, MN (United States)

12:05 p.m.
12:50 p.m.

ORAL COMMUNICATIONS

12:05 p.m.

OC21 Using Plasma P-tau217 and APOE Genotype to Predict Onset of Symptoms of Alzheimer's Disease

Yuxuan Xu¹, Tamil Gunasekaran¹, Yian Gu¹, Lawrence Honig¹, Jennifer Manly¹, Adam Brickman¹, Corinne Engelman², Sterling Johnson², David Bennett³, Sid O'Bryant⁴, Caghan Kizil¹, Badri Vardarajan¹, Richard Mayeux¹

¹Columbia University - New York (United States), ²University of Wisconsin-Madison - Madison (United States), ³Rush University - Chicago (United States), ⁴University of North Texas Health Science Center - Fort Worth (United States)

12:20 p.m.

OC22 AAV2-BDNF Gene Therapy in Alzheimer's Disease and Mild Cognitive Improvement Improves FDG-PET in Memory Circuitry

Yilong Ma¹, Gabriel Leger², Douglas Scharre³, Andrea Davis³, Kai Christman², Sara Rahman², Russell Lonser³, Krystopf Bankiewicz³, David Eidelberg¹, Bradley Elder³, Mark Tuszynski²

¹Feinstein Institute for Medical Research - Manhasset, NY (United States), ²UC San Diego - La Jolla, CA (United States), ³Ohio State University - Columbus, OH (United States)

12:35 p.m.

OC23 Leveraging the Global Neurodegeneration Proteomics Consortium Dataset to Identify Plasma Proteomic Profiles Associated with Alzheimer's Disease Progression and Biological Endotypes

Jennifer Panlilio¹, Lydia Wu², Olga Kahn¹, Jennifer Hsiao-Nakamoto¹, Varsha Krish², Farhad Imam², Ilya Barshai³, Sergey Feldman³, Laura Nisenbaum⁴, Aishwarya Sukumar²

¹Diagnostics Accelerator, Alzheimer's Drug Discovery Foundation - New York (United States), ²Gates Ventures - Seattle (United States), ³Data Cowboys - Seattle (United States), ⁴Alzheimer's Drug Discovery Foundation - New York (United States)

12:50 p.m.
2:05 p.m.

Lunch and Poster Sessions

2:05 p.m.
2:40 p.m.

LATE BREAKING LATE BREAKING COMMUNICATIONS

2:40 p.m.
3:40 p.m.

ORAL COMMUNICATIONS

2:40 p.m.

OC24 Harmonizing plasma pTau217 across immunoassay platforms: the Unified pTau217 Score (Units)

Wagner S. Brum¹, Marisa N. Denninger², Alpna Singh², Tainá Marques², Lennessa Mazo³, Rachael E. Wilson⁴, Ramiro Eduardo Rea Reyes⁴, Henrik Zetterberg⁵, Antoine Leuzy¹, Valentina Ghisays⁶, Reisa A. Sperling⁷, Eric M. Reiman⁶, Jessica B. Langbaum⁶, Sterling C. Johnson⁴, Nicholas J. Ashton⁶

¹ZRO Imaging - Santiago De Compostela (Spain), ²Banner Sun Health Research Institute - Sun City (United States), ³Arizona State University - Phoenix (United States), ⁴University of Wisconsin-Madison - Madison (United States), ⁵University of Gothenburg - Gothenburg (Sweden), ⁶Banner Alzheimer's Institute - Phoenix (United States), ⁷Harvard Medical School - Boston (United States)

2:55 p.m.

OC25 Rapamycin modulates disease-relevant processes in the central nervous system of patients with early Alzheimer's disease: data from PET, MRI and CSF with long-term follow-up

Jonas E. Svensson¹, Ruben Dörfel¹, Martin Schain², Martin Bolin¹, Simona Sacuiu¹, Göran Hagman¹, Anton Forsberg Morén¹, Miia Kivipelto¹, Sangram Nag¹, Pontus Plavén-Sigra¹

¹Karolinska Institutet - Stockholm (Sweden), ²Antaros Medical - Mölndal (Sweden)

3:10 p.m.

OC26 Longitudinal characterization of tau PET accumulation and spread anchored to amyloid and tau positivity timelines

Samira Maboudian¹, Karly Cody², William Coath¹, Julie Oomens¹, Jacob Morse¹, Hailey Bruzzone¹, Ramiro Rea Reyes¹, Matthew Zammit¹, Bradley Christian¹, Sanjay Asthana¹, Nathaniel Chin¹, Jessica Caldwell¹, Sterling Johnson¹, Tobey Betthausen¹

¹University of Wisconsin - Madison - Madison (United States), ²University of California San Francisco - San Francisco (United States)

3:25 p.m.

OC27 Beyond amyloid and tau: Hippocampal volume and cognitive performance in the AHEAD-345 Study screening cohort

Benjamin Zide¹, Aaron Schultz¹, Michael Properzi¹, Michael Rafii², Gustavo Jimenez-Maggiora², Michael Donohue², Oliver Langford², Paul Aisen², Jin Zhou³, Michael Irizzary³, Shobha Dhadda³, Keith Johnson¹, Rachel Buckley¹, Reisa Sperling¹, On Behalf Of The Ahead 3-45 Study Team⁴

¹Center for Alzheimer Research and Treatment, Mass General Brigham, Harvard Medical School - Boston, Ma (United States), ²Epstein Alzheimer's Therapeutic Research Institute, University of Southern California - San Diego, Ca (United States), ³Eisai Inc. - Nutley, Nj (United States), ⁴AHEAD ³⁻⁴⁵ Study Team, Alzheimer Clinical Trials Consortium (United States)

3:40 p.m.
4:10 p.m.

Coffee break — Poster session and Rising Star Showcase

4:10 p.m.
4:55 p.m.

ORAL COMMUNICATIONS

4:10 p.m.

OC28 Comparison of MK6240, Flortaucipir, PI2620 and RO948 tau PET tracers and plasma pTau217 across the Alzheimer's disease continuum

Guilherme Povala¹, Bruna Bellaver¹, Pamela C. L. Ferreira¹, Firoza Z. Lussier¹, Livia Amaral¹, Juan Fortea², Thomas K. Karikari¹, David N. Soleimani-Meigooni³, Val J. Lowe⁴, Hwamee Oh⁵, Brian A. Gordon⁶, Belen Pascual⁷, Pedro Rosa-Neto⁸, Suzanne Baker⁹, Tharick A. Pascoal¹

¹University of Pittsburgh, Department of Psychiatry - Pittsburgh (United States), ²Sant Pau Memory Unit, IR SANT PAU, Hospital de la Santa Creu i Sant Pau - Barcelona (Spain), ³University of California San Francisco, Edward and Pearl Fein Memory and Aging Center - San Francisco (United States), ⁴Mayo Clinic, Department of Radiology - Rochester (United States), ⁵Brown University, Department of Psychiatry and Human Behavior - Providence (United States), ⁶Washington University in St. Louis, Department of Radiology - St. Louis (United States), ⁷Houston Methodist Research Institute and Weill Cornell Medicine, Department of Neurology - Houston (United States), ⁸Translational Neuroimaging Laboratory, McGill University Research Centre for Studies in Aging, Douglas Research Institute - Montréal (Canada), ⁹Lawrence Berkeley National Laboratory - Berkeley (United States)

4:25 p.m.

OC29 Characterization of US Real-World Patients Receiving Donanemab with Modified Titration Using the NeuroDiscovery AI Database

Cara Leahy¹, Drew Spargo², Erin Gautier Doty², J. Scott Andrews², Krista Marie Schroeder², Vamsi Chandra Kasivajjala³, Akash Bhushan⁴, Anand Kumar Srirampurapu⁴, Ann Hartry²

¹Memorial Healthcare Institute for Neuroscience - Owosso (United States), ²Eli Lilly and Company - Indianapolis (United States), ³NeuroDiscovery AI - Alpharetta (United States), ⁴NeuroDiscovery AI - Bangalore (India)

4:40 p.m.

OC30 Combining Plasma p-Tau217 with Proteomic Signatures Enables Graded Risk Stratification for Alzheimer's Disease Progression

Menghan Liu¹, Katherine Gong¹, Yike Chen¹, Ying Xu¹, Jigyasha Timsina¹, John Budde¹, John Morris¹, Marco Giorgetti², David Holtzman¹, Jeremiah Hinson², Scott Levin², Suzanne Schindler¹, Kausik Das², Muhammad Ali¹, Carlos Cruchaga¹

¹Washington University School of Medicine - St. Louis, MO (United States), ²Danaher Diagnostics - Washington DC (United States)

● Thursday, November 19

7:30 a.m.
8:30 a.m.

POSTER WALKING TOUR

8:30 a.m.
9:10 a.m.

LATE BREAKING LATE BREAKING SYMPOSIUM 2

9:10 a.m.
10:10 a.m.

ORAL COMMUNICATIONS

9:10 a.m.

OC31 Early versus delayed cognitive effects of donanemab and lecanemab in early Alzheimer's disease: 24-month real-world trajectories and drug-specific baseline predictors of response

Yuki Kujuro¹

¹Tachikawa Hospital - Tokyo (Japan)

9:25 a.m.

OC32 CNS-selective plasma p-tau217 accurately captures Alzheimer's disease pathology and progression

Xuemei Zeng¹, Marissa F. Farinas¹, Michel N. Nafash¹, Neelesh Nadkarni¹, C. Elizabeth Shaaban¹, Tharick A. Pascoal¹, Victor L. Villemagne¹, Beth E. Snitz¹, Milos D. Ikonovic¹, Julia K. Kofler¹, M. Ilyas Kamboh¹, Annie D. Cohen¹, Oscar L. Lopez¹, Thomas K. Karikari¹

¹University of Pittsburgh - Pittsburgh (United States)

9:40 a.m.

OC33 Understanding intermediate values in two-point thresholds for PET, CSF, and plasma biomarkers across cohorts and p-tau217 assays

Jacob Zientz¹, Ganna Blazhenets¹, Zoe Lin¹, John Kornack¹, Susan Landau², Leslie Shaw³, Jeffrey Dage⁴, Dustin Hammers⁴, Ani Eloyan⁵, Robert Koeppe⁶, Maria Carrillo⁷, Bradford Dickerson⁸, Liana Apostolova⁴, Gil Rabinovici¹, Renaud La Joie¹

¹University of California, San Francisco - San Francisco, CA (United States), ²University of California, Berkeley - Berkeley, CA (United States), ³University of Pennsylvania - Philadelphia, PA (United States), ⁴Indiana University - Bloomington, IN (United States), ⁵Brown University - Providence, RI (United States), ⁶University of Michigan - Ann Arbor, MI (United States), ⁷Alzheimer's Association - Chicago, IL (United States), ⁸Massachusetts General Hospital - Boston, MA (United States)

9:55 a.m.

OC34 Diagnostic Performance of the Fujirebio Lumipulse Plasma p-tau217 and p-tau217/Aβ42 Assays for Detection of Amyloid Pathology in Cognitively Unimpaired Individuals

Daniel Figdore¹, Jeremy Syrjanen¹, Joshua Bornhorst¹, Jonathan Graff-Radford¹, Prashanthi Vemuri¹, David Knopman¹, Clifford Jack¹, Ronald Petersen¹, Alicia Algeciras-Schimnich¹

¹Mayo Clinic - Rochester (United States)

10:10 a.m.
10:30 a.m.

LATE BREAKING LATE BREAKING BIOTECH SHOWCASE SESSION

10:30 a.m.
11:00 a.m.

Coffee Break — Poster Session and Rising Star Showcase

11:00 a.m.
11:25 a.m.

KEYNOTE 4

Beyond Amyloid and Tau: Roles of Proteomics in Clinical Trials

Allan Levey, Professor of Neurology, Emory University's School of Medicine, Emory's Alzheimer's Disease Research Center, Emory University - Atlanta, GA (United States)

Introduction: Paul Aisen, ATRI-USC - La Jolla, CA (United States)

11:25 a.m.
12:25 p.m.

LATE BREAKING LATE BREAKING COMMUNICATIONS

12:25 p.m.
1:25 p.m.

Lunch and Poster Sessions

1:25 p.m.
2:25 p.m.

LATE BREAKING LATE BREAKING COMMUNICATIONS

2:25 p.m.
3:10 p.m.

ORAL COMMUNICATIONS

2:25 p.m.

OC35 A proof of concept trial of MIB-626, a sirtuin-NAD⁺ activator, in mild Alzheimer's disease dementia

Gad Marshall¹, Karol Pencina², Valentine Shang², Daniel Press³, Scott McGinnis⁴, Seth Gale⁴, Pamela Friedman⁴, Soyoun Lee⁴, Ricardo Salazar⁵, Brahyán Galindo Mendez⁴, Kirsten Glennon⁴, Danielle Lavey⁴, Alexander Lin¹, Shalender Bhasin²

¹Center for Clinical Spectroscopy, Department of Radiology, Brigham and Women's Hospital, Harvard Medical School – Boston, MA (United States), ²Section on Men's Health, Aging and Metabolism, Department of Medicine, Brigham and Women's Hospital, Harvard Medical School – Boston, MA (United States), ³Division of Cognitive Neurology, Department of Neurology, Beth Israel Deaconess Medical Center, Harvard Medical School – Boston, MA (United States), ⁴Center for Alzheimer Research and Treatment, Brigham and Women's Hospital, Harvard Medical School – Boston, MA (United States), ⁵Division of Geriatric Psychiatry, Department of Psychiatry, Brigham and Women's Hospital, Harvard Medical School – Boston, MA (United States)

2:40 p.m.

OC36 Distinct baseline topographies and short-interval spatiotemporal spread of [18F]MK-6240 tau PET in preclinical AD

Stephanie Doering^{1,2}, Praveen Honhar^{1,2}, Amal Tiss², Charles Chen^{1,2}, Elliott Slade², Emma Thibault², Jackson Thompson², Eva Pintucci², Alex Becker², Michelle Farrell², Reisa Sperling², Julie Price^{1,2}, Keith Johnson², Jessie Fanglu Fu^{1,2}

¹Athinoula A. Martinos Center for Biomedical Imaging - Charlestown, MA (United States), ²Massachusetts General Hospital, Harvard Medical School - Boston, MA (United States)

2:55 p.m.

OC37 Amyloid and Tau PET Biological Staging Across Ethnoracial Groups in a Multi-Cohort Alzheimer's Disease Study

Andrzej Sokolowski¹, Karly Cody^{1,2}, Luciah Medina Guerra¹, Isha Sai¹, Emily Johns¹, Alaina Durant³, Derek Archer³, Raul Vintimilla⁴, Sid O'Bryant⁴, Timothy Hohman³, Christina Young^{5,6}, Elizabeth Mormino¹

¹Department of Neurology and Neurological Sciences, Stanford University – Stanford, CA (United States), ²Department of Neurology, University of California San Francisco - San Francisco, CA (United States), ³Vanderbilt Memory and Alzheimer's Center, Vanderbilt University Medical Center – Nashville, TN (United States), ⁴Institute for Translational Research, University of North Texas Health Science Center, - Fort Worth, TX (United States), ⁵Department of Radiology, UC Davis – Davis, CA (United States), ⁶Department of Neurology, UC Davis, - Davis, CA (United States)

3:10 p.m.
4:10 p.m.

LATE BREAKING LATE BREAKING COMMUNICATIONS