



Clinical Trials on Alzheimer's Disease

**11<sup>th</sup>**

edition of

# Clinical Trials on Alzheimer's Disease

## Preliminary Program

PALAU DE CONGRESSOS DE CATALUNYA

Barcelona, October 24-27, 2018



Montpellier '08 / Las Vegas '09 / Toulouse '10 / San Diego '11  
Monte Carlo '12 / San Diego '13 / Philadelphia '14  
Barcelona '15 / San Diego '16 / Boston '17

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## BARCELONA, SPAIN

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Clinical Trials on Alzheimer's Disease

## CTAD Organizing Committee

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Hospital of Montpellier  
France

**Paul Aisen** MD  
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Therapeutic Research Institute (ATRI)  
University of Southern California (USC),  
San Diego, USA

**Bruno Vellas** MD, PhD  
University  
Hospital of Toulouse  
France

**Mike Weiner** MD  
University of California  
San Francisco (UCSF)  
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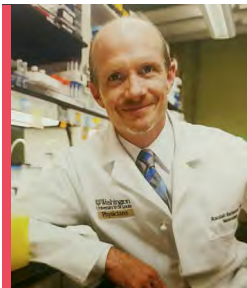
Michael W. WEINER (San Francisco)

Bengt WINBLAD (Stockholm)



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## KEYNOTE SKEAKERS



### «Blood biomarkers for AD clinical trials»

#### **Randall Bateman, MD, PhD**

*Charles F. and Joanne Knight Distinguished Professor of Neurology at the Washington University School of Medicine, St. Louis, USA*

Dr. Randall Bateman, the Charles F. and Joanne Knight Distinguished Professor of Neurology at the Washington University School of Medicine, is the PI of the Dominantly Inherited Alzheimer Network (DIAN) and DIAN Trials Unit which coordinates with pharmaceutical, regulatory, and patient advocacy groups for clinical trials in dominantly inherited Alzheimer's disease. Dr. Bateman's laboratory investigates the causes and future diagnosis and treatments of Alzheimer's disease utilizing a wide variety of assays and techniques. His lab measures the pathophysiology of Alzheimer's disease in humans utilizing amyloid-beta, apolipoprotein E, APP, and tau protein kinetics. His work has been supported by the NIH, foundations, and Pharma, and he has consulted for the FDA, NIH and Pharma. He has served as a co-investigator on multiple multi-site trials including ADNI and AD clinical trials. Dr. Bateman mentors junior faculty members, fellows, and students, all successful in their desired career trajectory. His contributions have been recognized with awards from the AlzForum Community, Alzheimer's Association (Zenith Award), Scientific American, the Glenn Award for Aging Research, and the MetLife Foundation.



### «What have we learned from Aducanumab?»

#### **Samantha Budd Haeberlein, PhD**

*Vice President of Alzheimer's Disease Discovery & Development, Biogen, Boston, USA*

Samantha Budd Haeberlein, Ph.D., joined Biogen in February 2015 as Vice President of Alzheimer's Disease Discovery & Development. Dr Budd Haeberlein was previously Vice President of Translational Science at AstraZeneca where for fifteen years she led multi-disciplinary teams and functions across Research, Strategy, Translational Medicine and Clinical Development in the US, Canada and Sweden. Dr Budd Haeberlein has a BSc (Hons.) and PhD in Biochemistry from the University of Dundee in Scotland, and conducted research at Brigham & Women's Hospital Harvard Medical School in Boston, and at The Burnham Institute in San Diego.



### «Anti-Tau Treatments: Potential, Challenges, and Progress»

#### **Lennart Mucke, MD**

*Director of the Gladstone Institute of Neurological Disease and Joseph B. Martin Distinguished Professor of Neuroscience and Professor of Neurology at the University of California, San Francisco (UCSF), USA*

Dr. Mucke is the founding director of the Gladstone Institute of Neurological Disease and holds joint appointments as the Joseph B. Martin Distinguished Professor of Neuroscience and Professor of Neurology at the University of California, San Francisco. He trained at the Free University Berlin, the Georg-August University and the Max Planck Institute for Biophysical Chemistry in Göttingen, the Cleveland Clinic, the Massachusetts General Hospital and Harvard Medical School, and The Scripps Research Institute. Dr. Mucke's research focuses on mechanisms that result in functional deficits in Alzheimer's disease and other cognitive disorders. He has generated informative experimental models of these conditions and used them to identify novel strategies to prevent neurological decline. For his contributions, Dr. Mucke has received the Potamkin Prize, MetLife Foundation Award for Medical Research, Kalid Iqbal Lifetime Achievement Award, Zenith Award, American Pacesetter Award, MERIT Award, and an Award for Excellence in Direct Teaching and Mentoring. He is a member of the American Neurological Association and the Association of American Physicians, chairs the Senate of the German Center for Neurodegenerative Diseases, and has served on the Medical and Scientific Advisory Council of the Alzheimer's Association and on the National Advisory Council on Aging for the NIH.



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## KEYNOTE SKEAKERS



### «How BIG and GOOD Data are revolutionizing Neurodegenerative Disease Research»

**Cristina Sampaio, MD, PhD**

*Chief Medical Officer, CHDI Foundation, Princeton, USA*

Professor Cristina Sampaio joined CHDI Foundation as Chief Clinical Officer 6 years ago. She also holds the position of Professor of Clinical Pharmacology and Therapeutics at Faculdade de Medicina de Lisboa (currently on unpaid leave). At CHDI Professor Sampaio oversees an extensive portfolio of clinical projects ranging from experimental medicine, through biomarker and rating scale development to support drug development activities, to the development and maintenance of a global clinical research platform, Enroll-HD. Professor Sampaio spent 25 years of her career in academia where her primary research interests centered on clinical research methodology, clinical trial design, and related aspects of meta-research applied to movement disorders. Together with several colleagues she founded the Cochrane Movement Disorders Group (MovDisCRG) and became its coordinating editor in 1996, a position that she has shared with Professor Joao Costa from 2013 to 2018. She is now an Editor of The MovDisCRG. Professor Sampaio published 170 peer review papers and book chapters. From 1998 to 2011, Professor Sampaio was a member of the Committee on Human Medicinal Products and the Scientific Advice Working Party at the European Medicines Agency. During this period, she had a very active role in the development of the standards of regulatory science for CNS medicinal products in the European Union. She was rapporteur, coordinator, or assessor of over 400 medicinal products files submitted to EMA for licensing or scientific advice and she coordinated the first clinical biomarker qualification in the EU. Professor Sampaio obtained her MD in 1986 and her PhD in clinical pharmacology in 1997 from the University of Lisbon. She is a board-certified clinical pharmacologist, receiving neurological training in the Neurology department of Hospital St Maria in Lisbon. She was a staff member of the Movement Disorders Clinic from 1988 to 2011, President of the Portuguese Movement Disorders Society 2008-2012, and Chair of the Evidence-based Medicine Committee of the International Parkinson and Movement Disorder Society 2010-2014.



### «Combination therapy in AD»

**Daniel M. Skovronsky, MD, PhD**

*Senior Vice President of Clinical and Product Development at Eli Lilly and Company, Indianapolis, USA*

Dr. Daniel M. Skovronsky, serves as Senior Vice President of Clinical and Product Development at Eli Lilly and Company. Dr. Skovronsky is responsible for developing the Lilly pipeline of molecules. He was the Founder, Chief Executive Officer and President at Avid Radiopharmaceuticals Inc. Dr. Skovronsky founded Avid Radiopharmaceuticals in 2004. Prior to establishing the firm, he served as Scientific Director of High Throughput Screening and Drug Discovery at the Center for Neurodegenerative Disease Research at the University of Pennsylvania. Dr. Skovronsky served as Vice President of Radiopharmaceutical Development at Theracor Pharmaceuticals. He served as a Member of Advisory Board of Safeguard Scientifics, Inc., until October 21, 2015 and previously served as a Member of its Life Sciences Advisory Board. Dr. Skovronsky serves as a Director of Avid Radiopharmaceuticals, Inc. He has more than 20 peer-reviewed publications and two NIH-funded grants on Alzheimer's disease research. He is the recipient of numerous scientific and business awards and was named by the Philadelphia Business Journal as one of their Forty under Forty business leaders in the region. Dr. Skovronsky received the Ernst & Young Entrepreneur Of The Year 2009 Award in the Emerging Company category, which recognizes outstanding entrepreneurs who are building and leading dynamic, growing businesses. He trained as a resident in Pathology and completed a Fellowship in Neuropathology at the Hospital of the University of Pennsylvania. Dr. Skovronsky received his MD and PhD from the University of Pennsylvania and did BS degree in Molecular Biochemistry at Yale University.



*2018 Recipient of the CTAD  
Lifetime Achievement Award*

**Rachelle Doody MD, PhD**

Rachelle Doody MD, PhD is the Global Head of Neurodegeneration in Pharma Development, Neuroscience for Roche Pharmaceutical Company and its US entity, Genentech. Prior to joining Genentech/Roche in September, 2016, Dr. Doody was the Effie Marie Cain Chair in Alzheimer's Disease Research at Baylor College of Medicine, in Houston, Texas where she founded and directed the Alzheimer's Disease and Memory Disorders Center over a period of 27 years.

While at Baylor, she published over 200 original research articles, served on the steering committees for the National Institutes of Health-funded Alzheimer's Disease Cooperative Study (ADCS) and Alzheimer's Disease Neuroimaging Initiative (ADNI), and the executive committee for the Alzheimer's Therapeutic Research Institute (ATRI).

In her role as a practicing Neurologist, Dr. Doody was elected to Best Doctors in America from 1996-2016. She has received many awards from professional and civic groups, including Distinguished Alumni Award from Rice University in 2009 and Distinguished Faculty Award from Baylor College of Medicine in 2011.

### Wednesday, October 24

4.00 - 4.30 p.m.

Opening Ceremony and CTAD Lifetime Achievement Award

4.30 - 5.00 p.m.

**Keynote 1 - Blood biomarkers for AD clinical trials**

5.00 - 5.50 p.m.

**Symposium 1 - APECS trial of the BACE1 inhibitor verubecestat for prodromal Alzheimer's disease**

5.50 - 6.40 p.m.

**Emerging Results From Other BACE Inhibitor Trials  
Discussion of BACEi Trial Findings: Challenges and Opportunities**

6.40 - 7.00 p.m.

**Late breaking oral communication**

### Thursday, October 25

8.30 - 10.00 a.m.

**Oral communications**

10.00 - 10.30 a.m.

Coffee break and poster session

10.30 - 11.30 a.m.

**Symposium 2 - Is BACE1 a suitable drug target for prevention and treatment of Alzheimer's disease?**

11.30 - 12.30 p.m.

**Oral communications**

12.30 - 1.30 p.m.

Lunch and poster session

1.30 - 2.00 p.m.

**Keynote 2 - What have we learned from Aducanumab?**

2.00 - 2.30 p.m.

**Late breaking oral communications**

2.30 - 3.30 p.m.

**Symposium 3 - Clinical and Biomarker Updates from BAN2401 Study 201 in Early AD**

3.30 - 4.30 p.m.

**Oral communications**

4.30 - 5.00 p.m.

Coffee break and poster session

5.00 - 6.00 p.m.

**Symposium 4 - A $\beta$  blood based test as surrogate markers of cortical amyloid pathology for clinical trials on Alzheimer's disease.**

## Friday, October 26

8.30 - 10.00 a.m.

**Oral communications**

10.00 - 10.30 a.m.

Coffee break and poster session

10.30 - 11.00 a.m.

**Keynote 3 - Anti-Tau treatments: Potential, challenges, and progress**

11.00 - 11.30 p.m.

**Late Breaking communications**

11.30 - 12.30 p.m.

**Symposium 5 - Towards the Development of a Complete Solution for Patients with Alzheimer's Disease (AD)**

12.30 - 1.30 p.m.

Lunch and poster session

1.30 - 2.45 p.m.

**Oral communications**

2.45 - 4.00 p.m.

**Late Breaking communications**

4.00 - 4.30 p.m.

Coffee break and poster session

4.30 - 5.00 p.m.

**Keynote 4 - Combination therapy in AD**

5.00 - 6.00 p.m.

**Symposium 6 - Endpoints for early Alzheimer's disease clinical trials: Interpretation and application of the draft FDA guidance**

## Saturday, October 27

8.30 - 9.15 a.m.

**Presentation and panel discussion: AMBAR (Alzheimer's Management By Albumin Replacement) Phase IIb/III Results**

9.15 - 9.45 a.m.

**Keynote 5 - How BIG and GOOD Data are revolutionizing neurodegenerative disease research**

9.45 - 10.15 a.m.

Coffee break and poster session

10.15 - 11.15 a.m.

**Oral communications**

11.15 - 12.15 p.m.

**Symposium 7 - Disclosure of Alzheimer's risk biomarkers to cognitively normal older adults**

12.15 - 1.15 p.m.

Lunch and poster session

1.15 - 3.45 p.m.

**Oral communications**

3.45 p.m.

End of conference



# Wednesday, October 24

4.00 - 4.30 p.m.

## Opening Ceremony and CTAD Lifetime Achievement Award

Jacques Touchon, Paul Aisen, Bruno Vellas, Mike Weiner, Merce Boada, Jose Luis Molinuevo. The recipient of this year's CTAD Lifetime Achievement Award is Rachelle S. Doody M.D., Ph.D. Global Head of Neurodegeneration, Roche, Basel - Switzerland for her work dedicated to academic and industrial research in AD clinical trials

4.30 - 5.00 p.m.

## Keynote 1

### Blood biomarkers for AD clinical trials

Randall Bateman, MD, PhD - Charles F. and Joanne Knight Distinguished Professor of Neurology at the Washington University School of Medicine, St. Louis, USA

5.00 - 5.50 p.m.

## Symposium 1

### APECS trial of the BACE1 inhibitor verubecestat for prodromal Alzheimer's disease

**Symposium moderator:** Jeffrey L. Cummings, MD, ScD, Cleveland Clinic, Las Vegas, NV, USA

#### Communication 1: Results from the APECS trial

Michael F. Egan, MD<sup>1</sup>, Tiffini Voss, MD<sup>1</sup>, Yuki Mukai, MD<sup>1</sup>, James Kost, PhD<sup>1</sup>, Paul S Aisen, MD<sup>2</sup>, Jeffrey L. Cummings, MD, ScD<sup>3</sup>, Pierre N. Tariot, MD<sup>4</sup>, Bruno Vellas, MD, PhD<sup>5</sup>, Christopher H. van Dyck, MD<sup>6</sup>, Ying Zhang, PhD<sup>1</sup>, Wen Li, PhD<sup>1</sup>, Christine Furtek, BS<sup>1</sup>, Erin Mahoney, BA<sup>1</sup>, Lyn Harper Mozley, PhD<sup>1</sup>, Yi Mo, PhD<sup>1</sup>, Cyrille Sur, PhD<sup>1</sup>, David Michelson, MD<sup>1</sup>

<sup>1</sup>Merck & Co., Inc., Kenilworth, NJ, USA <sup>2</sup>University of Southern California, San Diego, CA, USA <sup>3</sup>Cleveland Clinic, Las Vegas, NV, USA <sup>4</sup>Banner Alzheimer's Institute, Phoenix, AZ, USA <sup>5</sup>Gerontopole, INSERM U 1027, Alzheimer's Disease Research and Clinical Center, Toulouse University Hospital, Toulouse, France <sup>6</sup>Yale University School of Medicine, New Haven, CT, USA

#### Communication 2: Panel discussion

Paul S. Aisen, MD<sup>1</sup>, Maria C. Carrillo, PhD<sup>2</sup>, Pierre N. Tariot, MD<sup>3</sup>, Bruno Vellas, MD, PhD<sup>4</sup>

<sup>1</sup>University of Southern California, San Diego, CA, USA <sup>2</sup>The Alzheimer Association, Chicago, IL, USA <sup>3</sup>Banner Alzheimer's Institute, Phoenix, AZ, USA <sup>4</sup>Gerontopole, INSERM U 1027, Alzheimer's Disease Research and Clinical Center, Toulouse University Hospital, Toulouse, France

5.50 - 6.40 p.m.

## Emerging Results From Other BACE Inhibitor Trials Discussion of BACEi Trial Findings: Challenges and Opportunities

**CoChairs:** Reisa Sperling, MD, Brigham & Women's Hospital, Maria C. Carrillo, PhD, Alzheimer's Association

**Presentation 1:** Preliminary analyses of data from an ongoing trial of atabecestat in preclinical Alzheimer's disease. Gary Romano, MD, PhD Janssen R&D, USA

**Presentation 2:** LBI - Results from the phase 2 NAVIGATE-AD clinical trial evaluating LY3202626 BACE inhibitor in patients with mild Alzheimer's disease dementia.

Albert C. Lo<sup>1</sup>, Cynthia Duggan Evans<sup>1</sup>, Michele Mancini<sup>1</sup>, Qun Lin, Hong Wang<sup>1</sup>, Peng Liu<sup>1</sup>, Sergey Shcherbinin<sup>1</sup>, Ming Lu<sup>2</sup>, Arnaud Charil<sup>1</sup>, Brian A Willis<sup>1</sup>, Michael Irizarry<sup>3</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, IN, USA, <sup>2</sup>Avid Radiopharmaceuticals, a wholly owned subsidiary of Eli Lilly and Company, Indianapolis, IN, USA, <sup>3</sup>Eli Lilly and Company, Indianapolis IN, USA; now at Eisai Inc, Woodcliff Lake, NJ

**Panel discussion:** Reisa Sperling, MD, Brigham & Women's Hospital, Maria C. Carrillo, PhD, Alzheimer's Association, Mark Mintun, MD, Eli Lilly & Co., Michael Egan, MD, Merck & Co., Gary Romano, MD, PhD Janssen R&D, Ana Graf, MD, Novartis & Amgen, Inc., Johan Luthman, MD, Eisai Co., Ltd., John Sims, MD, Lilly/AZ Alliance

6.40 - 7.00 p.m.

## Late Breaking Oral communication

6.40 - 7.00 p.m.

### LB2 - TOMMORROW: a trial to delay the onset of MCI due to AD and qualify a genetic biomarker algorithm: topline results

Robert Alexander, MD<sup>1</sup>, Daniel K. Burns, PhD<sup>2</sup>, Kathleen A. Welsh-Bohmer, PhD<sup>3</sup>, Carl Chiang, PhD<sup>2</sup>, Meredith Culp, BS<sup>4</sup>, Janet O'Neil, MBA<sup>4</sup>, Brenda L. Plassman, PhD<sup>3</sup>, Craig Metz, PhD<sup>2</sup>, Deborah Yarbrough, MS, MBA<sup>4</sup>, Jingtao Wu, PhD<sup>1</sup>, Rebecca Evans, MD<sup>1</sup>, Kumar Budur, MD<sup>4</sup>, Stephen K. Brannan, MD<sup>4</sup>, Ann M. Saunders, PhD<sup>2</sup>, Emiliangelo Ratti, PhD<sup>1</sup>; for the TOMMORROW Study Investigators

<sup>1</sup>Takeda Development Center Americas, Inc., Cambridge, MA, USA, <sup>2</sup>Zinfandel Pharmaceuticals, Inc., Durham, NC, USA, <sup>3</sup>Duke University Bryan ADRC, Durham, NC, USA, <sup>4</sup>Takeda Development Center Americas, Inc., Deerfield, IL, USA



# Thursday, October 25

8.30 - 10.00 a.m.

## Oral communications

8.30 - 8.45 a.m.

### **OC1 - Phase 2a trial of AZD0530 evaluating 18F-FDG PET, safety, and tolerability in mild Alzheimer's dementia**

Christopher H. van Dyck, MD<sup>1</sup>, Haakon B. Nygaard, MD, PhD<sup>2</sup>, Kewei Chen, PhD<sup>3</sup>, Michael C. Donohue, PhD<sup>4</sup>, Rema Raman, PhD<sup>4</sup>, Robert A. Rissman, PhD<sup>4,5</sup>, James B. Brewer, MD, PhD<sup>5</sup>, Robert A. Koeppe, PhD<sup>6</sup>, Tiffany W. Chow, MD<sup>4</sup>, Michael S. Rafii, MD<sup>4</sup>, R. Scott Turner, MD, PhD<sup>7</sup>, Jeffrey A. Kaye, MD<sup>8</sup>, Seth A. Gale, MD<sup>9</sup>, Eric M. Reiman, MD<sup>3</sup>, Paul S. Aisen, MD<sup>4</sup>, Stephen M. Strittmatter, MD, PhD<sup>1</sup>

<sup>1</sup>Yale University School of Medicine, New Haven, USA <sup>2</sup>The University of British Columbia, Vancouver, Canada <sup>3</sup>Banner Alzheimer's Institute, Phoenix, USA <sup>4</sup>Alzheimer's Therapeutic Research Institute, University of Southern California, San Diego, USA <sup>5</sup>University of California San Diego, La Jolla, USA <sup>6</sup>University of Michigan, Ann Arbor, USA <sup>7</sup>Georgetown University, Washington, DC, USA <sup>8</sup>Oregon Health & Science University, Portland, USA <sup>9</sup>Harvard Medical School, Boston, USA

8.45 - 9.00 a.m.

### **OC2 - Primary results from a phase II/III trial of intranasal insulin: A novel multi-target molecule and delivery mode for AD therapeutics**

Suzanne Craft, PhD<sup>1</sup>, Rema Raman, PhD<sup>2</sup>, Tiffany Chow, MD<sup>2</sup>, Michael S Rafii, MD<sup>2</sup>, Robert A. Rissman, PhD<sup>3</sup>, James B. Brewer, MD<sup>3</sup>, Michael Donohue, PhD<sup>2</sup>, Chung-Kai Sun, MS<sup>2</sup>, Kelly Harless<sup>2</sup>, Devon Gessert<sup>2</sup>, Paul S. Aisen, MD<sup>2</sup>

<sup>1</sup>Wake Forest School of Medicine, Winston-Salem, USA, <sup>2</sup>University of Southern California, Los Angeles, USA, <sup>3</sup>University of California, San Diego, USA

9.00 - 9.15 a.m.

### **OC3 - Phase3 clinical trial for a novel and multi-targeted oligosaccharide in patients with mild-moderate AD in China**

Shifu Xiao, MD<sup>1</sup>, Zhenxin Zhang, MD<sup>2</sup>, Meiyu Geng, PhD<sup>3</sup>, GV-971 Study Group

<sup>1</sup>Department of Gerontology, Shanghai Mental Health Center, Shanghai Jiao Tong University, Shanghai, China <sup>2</sup>Peking Union Medical College Hospital, Beijing, China <sup>3</sup>State Key Laboratory of Drug Research, Shanghai Institute of Materia Medica, Chinese Academy of Sciences, Shanghai, China

9.15 - 9.30 a.m.

### **OC4 - Active Anti-amyloid Immunotherapy with UB-311 Vaccine: Design, baseline data and study update of a Phase IIa, Randomized, Double-Blind, Placebo-Controlled, 3-Arm Parallel-Group, Multicenter Study**

Ajay Verma, Hui Jing Yu, Hui-Chen Chen, and Chang Yi Wang on behalf of the UB-311 Phase IIa Study Team

United Neuroscience, Inc. Hauppauge, NY, USA

9.30 - 9.45 a.m.

### **OC5 - Elenbecestat in MCI-to-moderate Alzheimer's disease: Safety and effectiveness as measured by amyloid PET and the ADCOMS clinical endpoints**

Shau Yu Lynch, PhD<sup>1</sup>, June Kaplow, PhD<sup>1</sup>, Jim Zhao, MS, MM<sup>1</sup>, Shobha Dhadda, PhD<sup>1</sup>, Johan Luthman, PhD, DDS<sup>1</sup>, Bruce Albala, PhD<sup>1</sup>

<sup>1</sup>Eisai Inc., Woodcliff Lake, NJ, USA

9.45 - 10.00 a.m.

### **OC6 - ALLOPREGNANOLONE regenerative therapeutic for mild cognitive impairment and mild Alzheimer's disease: Phase Ib/2a outcomes update**

Roberta D. Brinton, PhD<sup>1</sup>, Gerson D. Hernandez, MD, MPH<sup>1</sup>, Naoko Kono, MPH<sup>2</sup>, Claudia M. Lopez, BS<sup>1</sup>, Christine Solinsky, PhD<sup>3</sup>, Kathleen Rodgers, PhD<sup>1</sup>, Jin Gahn, PhD<sup>4</sup>, Dogu Aydogan, PhD<sup>4</sup>, Yonggang Shi, PhD<sup>4</sup>, Sonia Pawluczylk, MD<sup>5</sup>, Meng Law, MD<sup>6</sup>, Wendy Mack, PhD<sup>2</sup>, Lon Schneider, MD, MS<sup>5</sup>

<sup>1</sup>Center for Innovation in Brain Science, University of Arizona, Tucson, Arizona, USA <sup>2</sup>Department of Preventive Medicine, University of Southern California, Los Angeles, CA, USA <sup>3</sup>School of Pharmacy, University of Southern California, Los Angeles, CA, USA <sup>4</sup>USC Institute for Neuroimaging and Informatics, University of Southern California, Los Angeles, CA, USA <sup>5</sup>Department of Psychiatry & The Behavioral Sciences, Keck School of Medicine of the University of Southern California, Los Angeles, CA, USA <sup>6</sup>Department of Radiology, University of Southern California, Los Angeles, CA, USA

10.00 - 10.30 a.m.

## Coffee break and poster session



# Thursday, October 25

10.30 - 11.30 a.m.

## Symposium 2

### Is BACE1 a suitable drug target for prevention and treatment of Alzheimer's disease?

**Symposium moderator:** Randall J. Bateman, MD, Department of Neurology, St. Louis, MO, USA

**Communication 1: Physiological substrates of BACE1: safety issues or biomarkers ?**

Stefan F. Lichtenthaler, PhD German Center for Neurodegenerative Diseases (DZNE) and Technical University of Munich (TUM), Germany

**Communication 2: Secretase inhibitors in AD prevention trials: optimizing success and mitigating risk.**

Eric McDade, DO, Department of Neurology, St. Louis, MO, USA

**Communication 3: Considerations and lessons learned for the design and implementation of AD clinical trials evaluating BACE inhibitors.**

Bruce Albala, PhD and Johan Luthman, PhD; Eisai, Inc., NJ, USA

11.30 - 12.30 p.m.

## Oral communications

11.30 - 11.45 a.m.

### OC7 - Impact of Amyloid PET on the management of cognitively impaired patients: Results from the IDEAS study

Gil D. Rabinovici<sup>1</sup>, Constantine Gatsonis<sup>2</sup>, Charles Apgar<sup>3</sup>, Kiran Chaudhary<sup>1</sup>, Ilana Gareen<sup>2</sup>, Lucy Hanna<sup>2</sup>, James Hendrix<sup>4</sup>, Bruce E. Hillner<sup>5</sup>, Cynthia Olson<sup>3</sup>, Orit Lesman-Segev<sup>1</sup>, Justin Romanoff<sup>2</sup>, Barry A. Siegel<sup>6</sup>, Rachel A. Whitmer<sup>7</sup>, Maria C. Carrillo<sup>4</sup>, on behalf of the IDEAS investigators.

<sup>1</sup>Department of Neurology, University of California San Francisco, <sup>2</sup>Center for Statistical Sciences, Brown University, <sup>3</sup>American College of Radiology, <sup>4</sup>Alzheimer's Association, <sup>5</sup>Department of Medicine, Virginia Commonwealth University, <sup>6</sup>Department of Radiology, Washington University, <sup>7</sup>Division of Research, Kaiser Permanente

11.45 - 12.00 p.m.

### OC8 - Safety and efficacy of estrogen receptor- $\beta$ targeted PhytoSERM formulation for cognitive complaints and vasomotor symptoms: Phase 1b/2a trial outcomes

Lon S. Schneider, MD<sup>1</sup>, Gerson Hernandez MD MPH<sup>2</sup>, Liqin Zhao PhD<sup>3</sup>, Sonia Pawluczyk MD<sup>1</sup>, Wendy J. Mack, PhD<sup>1</sup>, Roberta D. Brinton PhD<sup>2</sup>

<sup>1</sup>Keck School of Medicine of the University of Southern California, Los Angeles, USA, <sup>2</sup>University of Arizona, Center for Innovation in Brain Science, Tucson, USA, <sup>3</sup>University of Kansas, USA

12.00 - 12.15 p.m.

### OC9 - Interim safety and efficacy results of pilot trial of GM-CSF/sargramostim in mild to moderate AD

Huntington Potter, PhD Jonathan H. Woodcock, Timothy Boyd, Stefan H. Sillau, Thomas Borges, Brianne M. Bettcher, Joseph Daniels

Rocky Mountain Alzheimer's Disease Center, Department of Neurology University of Colorado School of Medicine

12.15 - 12.30 p.m.

### OC10 - Untangled – peptide-based inhibitors of tau aggregation as a potential treatment for Alzheimer's disease

David Allsop PhD<sup>1,2</sup>, Anthony Aggidis MSc<sup>1</sup>, Nigel Fullwood PhD<sup>1</sup>, Mark Taylor PhD<sup>1,2</sup>, Penny Foulds PhD<sup>1,2</sup>, Shoona Vincent PhD<sup>2</sup>, Mark Dale MD<sup>2</sup>

<sup>1</sup>Division of Biomedical and Life Sciences, Faculty of Health and Medicine, Lancaster University, Lancaster, UK, <sup>2</sup>Peptide Innovations Limited, Affiliated Company of MAC Research, Blackpool, UK

12.30 - 1.30 p.m.

## Lunch and poster session

1.30 - 2.00 p.m.

## Keynote 2

### What have we learned from Aducanumab?

Samantha Budd Haerberlein, PhD - Vice President of Alzheimer's Disease Discovery & Development, Biogen, Boston, USA

# Thursday, October 25

2.00 - 2.30 p.m.

## Late Breaking Oral communications

2.00 - 2.15 p.m.

### **LB3 - Lu AF20513, an active immunotherapy against amyloid beta, in development for patients in early stages of Alzheimer's disease**

Bjørn Sperling, MD<sup>1</sup>, Lars Østergaard Pedersen, PhD<sup>1</sup>, Neli Boneva, MD<sup>1</sup>, Dorthe Daugaard, MD<sup>1</sup>, Yudong Zhao, PhD<sup>1</sup>  
<sup>1</sup>H. Lundbeck A/S, Valby, Denmark

2.15 - 2.30 p.m.

### **LB4 - Predictors of [18F]flortaucipir (tau) load in Alzheimer's disease and other neurodegenerative disorders**

Oskar Hansson, MD, PhD<sup>1,2</sup>, Gil D. Rabinovici MD, PhD<sup>3</sup>, Chul H. Lyoo, MD, PhD<sup>4</sup> & Rik Ossenkoppele, PhD<sup>1,5</sup>  
<sup>1</sup>Lund University, Clinical Memory Research Unit, Lund, Sweden, <sup>2</sup>Memory Clinic, Skåne University Hospital, Malmö, Sweden, <sup>3</sup>Department of Neurology, University of California San Francisco, San Francisco, USA, Memory and Aging Center, <sup>4</sup>Department of Neurology, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea, <sup>5</sup>VU University Medical Center, Department of Neurology and Alzheimer Center, Amsterdam Neuroscience, Amsterdam, the Netherlands

2.30 - 3.30 p.m.

## Symposium 3

### Clinical and Biomarker Updates from BAN2401 Study 201 in Early AD

Eisai Inc, Woodcliff Lake, NJ, USA

3.30 - 4.30 p.m.

## Oral communications

3.30 - 3.45 p.m.

### **OC11 - Safety and efficacy of lemborexant for sleep-wake regulation in patients with irregular sleep wake rhythm disorder and Alzheimer's disease dementia**

Margaret Moline, PhD<sup>1</sup>, Mohammad Bsharat, PhD<sup>1</sup>, Manuel Kemethofer, MSc<sup>2</sup>, Gleb Filippov, MD, PhD<sup>1</sup>, Naoki Kubota, MPharm<sup>3</sup>, Patricia Murphy, PhD<sup>1</sup>  
<sup>1</sup>Eisai, Inc., Woodcliff Lake, USA, <sup>2</sup>The Siesta Group, Vienna, Austria, <sup>3</sup>Eisai Co. Ltd., Tokyo, Japan

3.45 - 4.00 p.m.

### **OC12 - Tau PET imaging as a screening tool for clinical trials of disease modifying therapies**

Adam S Fleisher<sup>2</sup>, Michael J Pontecorvo<sup>2</sup>, Michael D Devous<sup>2</sup>, Ming Lu<sup>2</sup>, Sergey Shcherbinin<sup>1</sup>, Anupa K Arora<sup>2</sup>, Mark A Mintun<sup>1,2</sup>.  
<sup>1</sup>Eli Lilly & Co, Indianapolis, IN, USA, <sup>2</sup>Avid Radiopharmaceuticals, Inc., Philadelphia, PA, USA

4.00 - 4.15 p.m.

### **OC13 - BACE inhibition by verubecestat produces a rapid, non-progressive reduction in brain and hippocampal volume in Alzheimer's disease**

Cyrille Sur, PhD<sup>1</sup>, James Kost, PhD<sup>1</sup>, David Scott, PhD<sup>2</sup>, Katarzyna Adamczuk, PhD<sup>2</sup>, Nick C Fox, PhD<sup>3</sup>, Jeffrey Cummings, MD, ScD<sup>4</sup>, Pierre Tariot, MD<sup>5</sup>, Paul Aisen, MD<sup>6</sup>, Bruno Vellas, MD, PhD<sup>7</sup>, Tiffini Voss, MD<sup>1</sup>, Yuki Mukai, MD<sup>1</sup>, David Michelson, MD<sup>1</sup>, Michael Egan, MD<sup>1</sup>  
<sup>1</sup>Merck & Co., Inc., Kenilworth, NJ, USA, <sup>2</sup>Bioclinica, Newark, CA, USA, <sup>3</sup>University College London, London, UK, <sup>4</sup>Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, USA, <sup>5</sup>Banner Alzheimer's Institute, Phoenix, AZ, USA, <sup>6</sup>University of California San Diego, San Diego, CA, USA, <sup>7</sup>Gerontopole, Toulouse University Hospital, Toulouse, France

4.15 - 4.30 p.m.

### **OC14 - Distinct Tau PET Patterns in Atrophy-Defined Subtypes of Alzheimer's disease**

Rik Ossenkoppele, Ph.D.<sup>1,2</sup>, Gil D. Rabinovici, M.D.<sup>3</sup>, Chul H. Lyoo, M.D., Ph.D.<sup>4</sup> & Oskar Hansson, M.D., Ph.D.<sup>1,5</sup>  
<sup>1</sup>Lund University, Clinical Memory Research Unit, Lund, Sweden, <sup>2</sup>VU University Medical Center, Department of Neurology and Alzheimer Center, Amsterdam Neuroscience, Amsterdam, the Netherlands, <sup>3</sup>Department of Neurology, University of California San Francisco, San Francisco, USA, Memory and Aging Center, <sup>4</sup>Department of Neurology, Gangnam Severance Hospital, Yonsei University College of Medicine, Seoul, South Korea, <sup>5</sup>Memory Clinic, Skåne University Hospital, Malmö, Sweden.

4.30 - 5.00 p.m.

## Coffee break and poster session



Thursday, October 25

5.00 - 6.00 p.m.

## Symposium 4

### **A $\beta$ blood based test as surrogate markers of cortical amyloid pathology for clinical trials on Alzheimer's disease.**

**Moderator :** Pedro Pesini PhD. Araclon Biotech-Grifols, Spain.

**Communication 1: Developing A $\beta$  blood based test into pre- screening tools for clinical trials in early stages of AD**  
Victor L. Villemagne, M.D. Dept of Molecular Imaging & Therapy, Austin Health, Dept of Medicine, The University of Melbourne.

**Communication 2: Plasma ratio of total A $\beta$ 42 to total A $\beta$ 40 in amnesic MCI patients is associated with FDG-PET, amyloid- PET, CSF and the risk of progression to AD dementia.**  
Anne Fagan PhD, Washington University, Saint Louis, Missouri.

**Communication 3: Total A $\beta$ 42 to total A $\beta$ 40 as a biomarker of cortical amyloid burden in subjects with subjective memory complains.**

Agustín Ruiz MD PhD. Research Director, Research Center and Memory Clinic. Fundació ACE. Institut Català de Neurociències Aplicades. Universitat Internacional de Catalunya (UIC), Barcelona, Spain.



Friday, October 26

8.30 - 10.00 a.m.

## Oral communications

8.30 - 8.45 a.m.

### OC15 - Cocoa supplement and multivitamin outcomes study of cognitive function (cosmos-mind): design of a large randomized clinical trial

[Laura D. Baker](#), PhD<sup>1</sup>, Mark A. Espeland, PhD<sup>1</sup>, Stephen R. Rapp, PhD<sup>1</sup>, Sally A. Shumaker, PhD<sup>1</sup>, Sarah A. Gaussoin, MS<sup>1</sup>, Howard D. Sesso, ScD<sup>2</sup>, JoAnn E. Manson, MD, DrPH<sup>2</sup>

<sup>1</sup>Wake Forest School of Medicine, Winston-Salem, USA, <sup>2</sup>Brigham and Women's Hospital, Harvard Medical School, Boston, USA

8.45 - 9.00 a.m.

### OC16 - Rationale and design of a prospective, randomized, double-blind, dose-comparison safety and tolerability study of GRF6019 in mild-to-moderate Alzheimer's disease

[Jonas Hannestad](#), MD PhD<sup>1</sup>, Ian Gallager, PhD<sup>1</sup>, Katie Koborsi, MS<sup>1</sup>, S. Sakura Minami, PhD<sup>1</sup>, Darby Stephens, MBA<sup>1</sup>, Viktoria Kheifets, PhD<sup>1</sup>, Steven Braithwaite, PhD<sup>1</sup>

<sup>1</sup>Alkermest, Inc., San Carlos, USA

9.00 - 9.15 a.m.

### OC17 - Machine learning algorithm helps identify non-diagnosed prodromal Alzheimer's disease patients in general population

[Olga Uspenskaya-Cadoz](#)<sup>1</sup>, Chaitanya Alamuri<sup>2</sup>, Sam Khinda<sup>3</sup>, Yuliya Nigmatullina<sup>2</sup>, Carolina Rubel<sup>3</sup>, Lanhui Wang<sup>2</sup>, Mengting Yang<sup>2</sup>, Tao Cao<sup>2</sup>, Nikhil Kayal<sup>2</sup>

<sup>1</sup>IQVIA CNS Center of Excellence, <sup>2</sup>IQVIA Analytics Center of Excellence, <sup>3</sup>IQVIA Project Leadership

9.15 - 9.30 a.m.

### OC18 - ABBV-8E12, a humanized anti-tau monoclonal antibody, for treating early Alzheimer's disease: Updated design and baseline characteristics of phase 2 study

[Hana Florian](#), MD<sup>1</sup>, Steven E. Arnold, MD<sup>2</sup>, Randall J. Bateman, MD<sup>3</sup>, Joel B. Braunstein, MD, MBA<sup>4</sup>, Kumar Budur, MD<sup>1</sup>, Diana R. Kerwin, MD<sup>5</sup>, Holly Soares, PhD<sup>1</sup>, Deli Wang, PhD<sup>1</sup>, David M. Holtzman, MD<sup>3</sup>

<sup>1</sup>AbbVie, Inc., North Chicago, IL, USA, <sup>2</sup>Massachusetts General Hospital, Boston, MA, USA, <sup>3</sup>Washington University, St. Louis, MO, USA, <sup>4</sup>C<sub>N</sub> Diagnostics LLC, St. Louis, MO, USA, <sup>5</sup>Texas Health Presbyterian Hospital, Dallas, TX, USA

9.30 - 9.45 a.m.

### OC19 - Assessment of clinical meaningfulness of endpoints in the Generation Program by the Insights to Model Alzheimer's Progression in real life (IMAP) study

[A. Graf](#)<sup>1</sup>, V. Risson<sup>1</sup>, S. Tzivelekis<sup>2</sup>, A. Gustavsson<sup>3</sup>, V. Bezlyak<sup>1</sup>, A. Caputo<sup>1</sup>, P.N. Tariot<sup>4</sup>, J.B. Langbaum<sup>4</sup>, C. Lopez Lopez<sup>1</sup>, V. Viglietta<sup>2</sup>

<sup>1</sup>Novartis Pharma AG, <sup>2</sup>Amgen, Inc., <sup>3</sup>Quantify Research, <sup>4</sup>Banner Alzheimer's Institute

9.45 - 10.00 a.m.

### OC20 - Characterizing clinical severity among biomarker positive individuals: Applying the 2018 NIA-AA research criteria for Alzheimer's disease to four large study cohorts.

[Roos J. Jutten](#), MSc<sup>1</sup>, Rebecca E. Amariglio, PhD<sup>2,3</sup>, Gad A. Marshall, MD, PhD<sup>2,3</sup>, Dorene M. Rentz, PhD<sup>2,3</sup>, Wiesje M. Van der Flier, PhD<sup>1</sup>, Philip Scheltens, MD, PhD<sup>1</sup>, Keith A. Johnson<sup>2,4</sup>, Reisa A. Sperling, MD<sup>2,3</sup>, PhD, Sietske A.M. Sirkes, PhD<sup>1,3</sup>, Kathryn V. Papp, PhD<sup>2,3</sup>

<sup>1</sup>Alzheimer Center, VU University Medical Center, Amsterdam, The Netherlands, <sup>2</sup>Department of Neurology, Brigham and Women's Hospital, Harvard Medical School, Boston MA, USA, <sup>3</sup>Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston MA, USA, <sup>4</sup>Department of Radiology, Massachusetts General Hospital, Harvard Medical School, Boston MA, USA

10.00 - 10.30 a.m.

## Coffee break and poster session

10.30 - 11.00 a.m.

## Keynote 3

### Anti-Tau treatments: Potential, challenges, and progress

[Lennart Mucke](#), MD Director of the Gladstone Institute of Neurological Disease and [Joseph B. Martin](#) Distinguished Professor of Neuroscience and Professor of Neurology at the University of California, San Francisco (UCSF), USA



# Friday, October 26

11.00 - 11.30 p.m.

## Late Breaking communications

11.00 - 11.30 a.m.

### **LB5 - 18F-AV-1451-A16: A clinico-pathological study of the correspondence between flortaucipir PET imaging and post-mortem assessment of tau pathology**

[Mark A. Mintun](#)<sup>1,2</sup>, Adam S. Fleisher<sup>2</sup>, Michael D. Devous<sup>2</sup>, Ming Lu<sup>2</sup>, Anupa K. Arora<sup>2</sup>, Thomas G. Beach<sup>3</sup>, Thomas J. Montine<sup>4</sup>, Michael J. Pontecorvo<sup>2</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, IN, USA, <sup>2</sup>Avid Radiopharmaceuticals, Inc., Philadelphia, PA, USA, <sup>3</sup>Civin Laboratory for Neuropathology, Banner Sun Health Research Institute, Phoenix, AZ, USA, <sup>4</sup>Department of Pathology, Stanford University, Stanford, CA, USA

11.30 - 12.30 p.m.

## Symposium 5

### Towards the Development of a Complete Solution for Patients with Alzheimer's Disease (AD)

**Moderator:** Rachele Doody, MD, PhD<sup>1,2</sup>

<sup>1</sup>Genentech, Inc., South San Francisco, CA, USA, <sup>2</sup>F. Hoffmann-La Roche Ltd, Basel, Switzerland

#### **Communication 1: Self-detection of cognitive problems: benefits and challenges of online and digital tools**

Mary Sano, PhD<sup>1,2</sup>

<sup>1</sup>Director, Alzheimer's Disease Research Center, Icahn School of Medicine at Mount Sinai, New York, NY, <sup>2</sup>Department of Psychiatry, Icahn School of Medicine at Mount Sinai, New York, NY, USA

#### **Communication 2: Enhancing earlier and more reliable diagnosis of AD through the use of emerging biomarkers**

Christopher van Dyck, MD<sup>1-4</sup>

<sup>1</sup>Alzheimer's Disease Research Unit, Yale University School of Medicine, New Haven, CT, USA, <sup>2</sup>Department of Psychiatry, Yale University School of Medicine, New Haven, CT, USA, <sup>3</sup>Department of Neuroscience, Yale University School of Medicine, New Haven, CT, USA, <sup>4</sup>Department of Neurology, Yale University School of Medicine, New Haven, CT, USA

#### **Communication 3: Moving towards combination therapies for disease modification in AD**

Dennis J. Selkoe, MD<sup>1,2</sup>

<sup>1</sup>Ann Romney Center for Neurologic Diseases, Brigham and Women's Hospital, Boston, MA, USA, <sup>2</sup>Harvard Medical School, Boston, MA, USA

12.30 - 1.30 p.m.

## Lunch and poster session

1.30 - 2.45 p.m.

## Oral communications

1.30 - 1.45 p.m.

### **OC21 - Extension and validation of an amyloid staging model: Associations with clinical measures**

Lyduine Collij, MSc,<sup>1</sup> Fiona Heeman, MSc,<sup>1</sup> Gemma Salvadó Blasco, MSc,<sup>2</sup> Elles Konijnenberg, MD, MSc,<sup>3</sup> Anouk den Braber, PhD,<sup>4</sup> Maqsood Yaqub, PhD,<sup>1</sup> Pieter Jelle Visser, MD, PhD,<sup>3</sup> Alle Meije Wink, Ir, PhD,<sup>1</sup> Philip Scheltens, MD, PhD,<sup>3</sup> Ronald Boellaard, PhD,<sup>1</sup> Bart N.M. van Berckel, MD, PhD,<sup>1</sup> Juan Domingo Gispert López, PhD,<sup>2</sup> Mark Schmidt, MD, PhD,<sup>5</sup> [Frederik Barkhof](#), MD, PhD,<sup>1,6</sup> Isadora Lopes Alves, PhD.<sup>1</sup>

<sup>1</sup>Dept. of Radiology and Nuclear Medicine, VU University Medical Center, Amsterdam, The Netherlands, <sup>2</sup>BarcelonaBeta Brain Research Center, Barcelona, Spain, <sup>3</sup>Alzheimer Center and Dept. of Neurology, VU University Medical Center, Amsterdam, The Netherlands, <sup>4</sup>Dept. of Biological Psychology, VU University Amsterdam, The Netherlands, <sup>5</sup>Janssen Pharmaceutica, Beerse, Belgium, <sup>6</sup>Institute of Neurology and Healthcare Engineering, University College London, London, United Kingdom.

1.45 - 2.00 p.m.

### **OC22 - Twenty-four-month amyloid PET results of the gantenerumab high-dose SCarlet and Marguerite RoAD open-label extension studies**

[Gregory Klein](#), PhD<sup>1</sup>, Paul Delmar, PhD<sup>2</sup>, Carsten Hofmann, PhD<sup>1</sup>, Danielle Abi-Saab, PsyD<sup>2</sup>, Mirjana Andjelkovic, PhD<sup>2</sup>, Smiljana Ristic, MD<sup>2</sup>, Nicola Voyle, PhD<sup>3</sup>, Jacob Hesterman, PhD<sup>4</sup>, John Seibyl<sup>4</sup>, Ken Marek<sup>4</sup>, Ferenc Martenyi, MD<sup>2</sup>, Monika Baudler, PhD<sup>2</sup>, Paulo Fontoura, MD, PhD<sup>2</sup>, Rachele Doody, MD, PhD<sup>2</sup>

<sup>1</sup>Roche Pharma Research and Early Development, Basel, Switzerland, <sup>2</sup>Roche / Genentech Product Development, Neuroscience, Basel, Switzerland, <sup>3</sup>Roche Products Ltd, Welwyn Garden City, UK, <sup>4</sup>InviCRO, LLC, Boston, MA, US

# Friday, October 26

- 2.00 - 2.15 p.m.** **OC23 - Multi-domain interventions to prevent dementia: from FINGER to World-Wide FINGERS**  
Miia Kivipelto<sup>1,2,3</sup>, On behalf of the World-Wide FINGERS network  
*<sup>1</sup>Karolinska Institutet, Department of Clinical Geriatrics, Center for Alzheimer Research, Stockholm, Sweden, <sup>2</sup>University of Eastern Finland, Institute of Clinical Medicine/Neurology, Kuopio, Finland, <sup>3</sup>Imperial College London, NEA, School of Public Health, UK*
- 2.15 - 2.30 p.m.** **OC24 - Identifying risk of cognitive decline in Mild Cognitive Impairment for population enrichment of clinical trials**  
Christian Dansereau<sup>1,2</sup>, PhD, Maor Zaltzhendler<sup>1</sup>, MEng, Angela Tam<sup>2,3</sup>, MSc, Pedro Rosa-Neto<sup>3</sup>, MD, PhD, Serge Gauthier<sup>3</sup>, MD, Pierre Bellec<sup>2,4</sup>, PhD  
*<sup>1</sup>Perceiv Research Inc., Montreal, CAN, <sup>2</sup>Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal, CAN, <sup>3</sup>Douglas Mental Health University Institute, McGill University, CAN, <sup>4</sup>Department of Computer Science and Operations Research, University of Montreal, CAN*
- 2.30 - 2.45 p.m.** **OC25 - Study update on XanADu: Phase II study of Xanamem™ in subjects with mild dementia due to Alzheimer's disease**  
Craig Ritchie, MD, PhD, Centre for Dementia Prevention, University of Edinburgh, UK

2.45 - 4.00 p.m.

## Late Breaking communications

- 2.45 - 3.00 p.m.** **LB6 - Age and ApoE genotype-specific population frequencies of cerebral  $\beta$ -amyloidosis and hippocampal atrophy among cognitively normal individuals in CHARIOT-PRO**  
Hany Rofaef, MD, PhD<sup>1</sup>, Gerald Novak MD<sup>1</sup>, Luc Bracoud MSc<sup>2</sup>, Nandini Raghavan PhD<sup>1</sup>, Ziad Saad PhD<sup>3</sup>, S Einstein MS<sup>1</sup>, Robert Brashear<sup>1</sup>, David Scott PhD<sup>4</sup>, Joel Schaerer PhD<sup>2</sup>, Celeste de Jager PhD<sup>5</sup>, Chi Udeh-Momoh, PhD<sup>5</sup>, the Alzheimer's Disease Neuroimaging Initiative (ADNI), and Lefkos Middleton MD<sup>5</sup>
- 3.00 - 3.15 p.m.** **LB7 - Safety and efficacy results from the phase 3, multicenter, 18-month STEADFAST trial of azeliragon in participants with mild Alzheimer's disease**  
Marwan Sabbagh, MD<sup>1</sup>, Imogene Dunn, PhD<sup>2</sup>, Ann Gooch, PhD<sup>2</sup>, Tom Soeder, MS<sup>3</sup>, Karl Kiebertz, MD, MPH<sup>4</sup>, Carmen Valcarce, PhD<sup>2</sup>, Larry D Altstiel, MD, PhD<sup>2\*</sup>, Aaron H Burstein, PharmD<sup>2</sup>  
*<sup>1</sup>Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, USA, <sup>2</sup>vTv Therapeutics LLC, High Point, NC, USA, <sup>3</sup>Cato Research LTD, Durham, NC, USA, <sup>4</sup>Clintrex LLC, Longboat Key, FL, USA*
- 3.15 - 3.30 p.m.** **LB8 - Aducanumab titration dosing regimen: 36-month analyses from PRIME, a Phase 1b study in patients with early Alzheimer's disease**  
Samantha Budd Haeberlein, PhD<sup>1</sup>, Carmen Castrillo-Viguera, MD<sup>1</sup>, Tianle Chen, PhD<sup>1</sup>, John O'Gorman, PhD<sup>1</sup>, Raj Rajagovindan, PhD<sup>1</sup>, Dakshaben Patel, PhD<sup>2</sup>, Philipp von Rosenstiel, MD<sup>1</sup>, Guanfang Wang, PhD<sup>3</sup>, Spyros Chalkias, MD<sup>1</sup>, LeAnne Skordos PharmD<sup>1</sup>, Claudia Prada, MD<sup>1</sup>, Christoph Hock, MD<sup>4</sup>, Roger M Nitsch, MD<sup>4</sup>, Alfred Sandrock, MD, PhD<sup>1</sup>  
*<sup>1</sup>Biogen, Cambridge, MA, USA, <sup>2</sup>Biogen, Maidenhead, UK, <sup>3</sup>Cytel, Cambridge, MA, USA, <sup>4</sup>Neurimmune, Schlieren-Zurich, and University of Zurich, Switzerland*
- 3.30 - 3.45 p.m.** **LB9 - Longitudinal 148-Week Extension Study for ANAVEX®2-73 Phase 2a Alzheimer's Disease Demonstrates Maintained Activities of Daily Living Score (ADCS-ADL) and Reduced Cognitive Decline (MMSE) for Patient Cohort on Higher Drug Concentration and Confirms Role of Patient Selection Biomarkers**  
Harald Hampel, MD, PhD<sup>1</sup>, Mohammad Afshar, MD, PhD<sup>2</sup>, Frédéric Parmentier, PhD<sup>2</sup>, Coralie Williams, MSc<sup>2</sup>, Adrien Etcheto, MSc<sup>2</sup>, Federico Goodsaid, PhD<sup>3</sup>, Christopher U Missling, PhD<sup>4</sup>  
*<sup>1</sup>Department of Neurology, Sorbonne University, Paris, France, <sup>2</sup>Ariana Pharma, Paris, France, <sup>3</sup>Regulatory Pathfinders LLC, San Francisco, CA, <sup>4</sup>Anavex Life Sciences Corp., New York, NY*
- 3.45 - 4.00 p.m.** **LB10 - Predictive performance of CSF and imaging AD biomarkers in ADNII/GO/2 MCI participants using the NIA-AA research framework**  
Leslie M Shaw, PhD<sup>1</sup>, Michal Figurski, PhD<sup>1</sup>, Susan Landau, PhD<sup>2</sup>, William Jagust, MD<sup>2</sup>, Clifford R Jack, MD<sup>3</sup>, Paul S Aisen, MD<sup>4</sup>, Ronald C Petersen, MD<sup>3</sup>, Michael W Weiner, MD<sup>5</sup>, John Q Trojanowski, MD, PhD<sup>1</sup>  
*<sup>1</sup>University of Pennsylvania, Philadelphia, USA, <sup>2</sup>University of California, Berkeley, Berkeley, USA, <sup>3</sup>Mayo Clinic, Rochester, USA, <sup>4</sup>University of Southern California, San Diego, USA, <sup>5</sup>University of California, San Francisco, San Francisco, USA*





Friday, October 26

4.00 - 4.30 p.m.

Coffee break and poster session

4.30 - 5.00 p.m.

## Keynote 4

### Combination therapy in AD

*Daniel M. Skovronsky, MD, PhD - Senior Vice President of Clinical and Product Development at Eli Lilly and Company, Indianapolis, USA*

5.00 - 6.00 p.m.

## Symposium 6

### Endpoints for early Alzheimer's disease clinical trials: Interpretation and application of the draft FDA guidance

**Symposium moderator:** Eric Siemers, MD, Cogstate Ltd, New Haven, CT, USA

#### **Communication 1: Clinical Endpoints in Stage 1, 2 and 3 Disease**

**Reisa Sperling, MD<sup>1</sup>, Ronald C. Petersen, MD, PhD<sup>2</sup>, Gary Romano, MD, PhD<sup>3</sup>, Paul Maruff, PhD<sup>4</sup>**

*<sup>1</sup>Department of Neurology, Brigham and Women's Hospital, Boston, MA, USA, <sup>2</sup>Department of Neurology, Mayo Clinic, Rochester, MN, USA, <sup>3</sup>Janssen R&D, Titusville, NJ, USA, <sup>4</sup>Cogstate Ltd, Melbourne, Victoria, Australia*

#### **Communication 2: Biomarkers in Stage 1, 2 and 3 Disease**

**Samantha Budd Haeberlein PhD<sup>1</sup>, Jose Luis Molinuevo, MD, PhD<sup>2</sup>, Christopher C. Rowe, PhD<sup>3</sup>, Maria C. Carrillo PhD<sup>4</sup>, Clifford R. Jack, Jr., MD<sup>5</sup>**

*<sup>1</sup>Biogen, Cambridge, MA, USA, <sup>2</sup>BarcelonaBeta Brain Research Center, Pasqual Maragall Foundation and Hospital Clinic-IDIBAPS, Barcelona, Spain, <sup>3</sup>Department of Molecular Imaging, Austin Health, University of Melbourne, Melbourne, Australia, <sup>4</sup>Alzheimer's Association, Chicago, IL, USA, <sup>5</sup>Department of Radiology, Mayo Clinic, Rochester, MN, USA*

#### **Communication 3: Approaches to Establishing the Meaningfulness of Treatment Effects**

**Chris J. Edgar, PhD<sup>1</sup>, George Vradenburg, JD<sup>2</sup>, Jason Hassenstab, PhD<sup>3</sup>**

*<sup>1</sup>Cogstate Ltd, London, UK, <sup>2</sup>UsAgainstAlzheimer's and Alzheimer's Disease Patient and Caregiver Engagement (AD PACE), Chevy Chase, MD, USA, <sup>3</sup>Department of Neurology, Washington University School of Medicine, St. Louis, MO, USA*



# Saturday, October 27

8.30 - 9.15 a.m.

## Presentation and panel discussion: AMBAR (Alzheimer's Management By Albumin Replacement) Phase IIb/III Results

**Presentation** by Antonio Páez MD, Grifols S.A., Barcelona, Spain

**Followed by Panel Discussion with:**

**Panel discussion moderator:** Jeffrey L. Cummings, MD, ScD, Cleveland Clinic, Las Vegas, NV, USA

- Mercè Boada MD, PhD, Fundació ACE, Universitat Internacional de Catalunya, Barcelona, Spain
- Oscar L. Lopez MD, PhD, University of Pittsburgh School of Medicine, Pittsburgh, PA, USA
- Zbigniew M. Szczepiorkowski, MD, PhD, Dartmouth Hitchcock Medical Center, Lebanon, NH, USA
- Bruno Vellas, MD, PhD, University Hospital, Toulouse, France

9.15 - 9.45 a.m.

## Keynote 5 How BIG and GOOD Data are revolutionizing neurodegenerative disease research

*Cristina Sampaio, MD, PhD - Chief Medical Officer, CHDI Foundation, Princeton, USA*

9.45 - 10.15 a.m.

## Coffee break and poster session

10.15 - 11.15 a.m.

## Oral communications

10.15 - 10.30 a.m.

**OC26 - First longitudinal evaluation of the tau tracer [18F]MK-6240 for the use in clinical trials**  
[Tharick A. Pascoal MD<sup>1</sup>](#), [Sulantha Mathotaarachchi MSc<sup>1</sup>](#), [Mira Chamoun PhD<sup>2</sup>](#), [Joseph Therriault BSc<sup>1</sup>](#), [Robert Hopewell PhD<sup>2</sup>](#), [Gassan Massarweh PhD<sup>2</sup>](#), [Andrea L. Benedet<sup>1</sup>](#), MSc, BSc, [Min Su Kang<sup>1</sup>](#), [Jean-Paul Soucy MD<sup>1</sup>](#), [Serge Gauthier<sup>1</sup>](#), MD, [Pedro Rosa-Neto<sup>1</sup>](#), MD, PhD

<sup>1</sup>Translational Neuroimaging Laboratory, McGill University Research Centre for Studies in Aging, McGill University, Montreal, Canada, <sup>2</sup>Montreal Neurological Institute, McGill University, Montreal, Canada

10.30 - 10.45 a.m.

**OC27 - Implementation of the NIA-AA research framework: toward a biological definition of Alzheimer's disease in AIBL**

[Samantha C. Burnham<sup>1,2</sup>](#), [Preciosa M Coloma<sup>3</sup>](#), [Qiao-Xing Li<sup>4</sup>](#), [Steven Collins<sup>5</sup>](#), [Greg Savage<sup>6</sup>](#), [Simon Laws<sup>2</sup>](#), [James Doecke<sup>7</sup>](#), [Paul Maruff<sup>8</sup>](#), [Ralph N Martins<sup>2,9</sup>](#), [David Ames<sup>10</sup>](#), [Christopher C Rowe<sup>11</sup>](#), [Colin L Masters<sup>4</sup>](#), [Victor L Villemagne<sup>4,11</sup>](#)  
<sup>1</sup>eHealth, CSIRO, Parkville, VIC, Australia, <sup>2</sup>School of Medical Sciences, Edith Cowan University, Joondalup, Australia, <sup>3</sup>Product Development Personalised Health Care - Data Science, F. Hoffmann-La Roche Ltd, Basel, Switzerland, <sup>4</sup>The Florey Institute of Neuroscience and Mental Health, The University of Melbourne, Victoria, Australia, <sup>5</sup>Department of Pathology, University of Melbourne, Parkville, Australia, <sup>6</sup>Macquarie University, Sydney, Australia, <sup>7</sup>eHealth, CSIRO, Herston, QLD, Australia, <sup>8</sup>Cogstate Ltd, Melbourne, Australia, <sup>9</sup>Macquarie University, North Ryde, Australia, <sup>10</sup>National Ageing Research Institute, Melbourne, Australia, <sup>11</sup>Austin Health, Melbourne, Australia  
[Brain Health, Las Vegas, NV, USA](#)

10.45 - 11.00 a.m.

**OC28 - The neuroprotective effect of a new photobiomodulation technique on Aβ25-35 peptide-induced toxicity dramatically impact gut microbiota dysbiosis**

[Jacques Touchon, MD, PhD<sup>1,2</sup>](#), [Laura Auboyer, PhD<sup>3</sup>](#), [Johann Meunier, PhD<sup>4</sup>](#), [Laura Ceolin, PhD<sup>4</sup>](#), [François J. Roman, PhD<sup>4</sup>](#), [Rémy Burcelin, PhD<sup>5</sup>](#), [Guillaume J. Blivet, MS<sup>3</sup>](#)

<sup>1</sup>Montpellier University, France, <sup>2</sup>INSERM U1061, Montpellier, France, <sup>3</sup>REGENLIFE SAS, Montpellier, France, <sup>4</sup>Amylgen SAS, Montferrier-sur-Lez, France, <sup>5</sup>Vaiomer SAS, Labège, France



# Saturday, October 27

11.00 - 11.15 a.m.

## OC29 - Elecsys® CSF biomarker immunoassays demonstrate concordance with results of Amyloid-PET imaging in AIBL patient samples

Larry Ward, PhD<sup>1</sup>, Samantha C. Burnham, PhD<sup>4,7</sup>, Victor L. Villemagne MD<sup>5,6</sup>, Qiao-Xin Li, PhD<sup>5</sup>, Steven Collins MBBS PhD<sup>5</sup>, Christopher J Fowler PhD<sup>5</sup>, Ekaterina Manuilova, PhD<sup>2</sup>, Monika Widmann, ChTech<sup>3</sup>, Stephanie Rainey-Smith PhD<sup>7</sup>, Colin L Masters MD<sup>5</sup>, James D Doecke, PhD<sup>1,8</sup>

<sup>1</sup>Cooperative Research Council for Mental Health, Melbourne, Vic, Australia, <sup>2</sup>Roche Diagnostics GmbH, Penzberg, Germany, <sup>3</sup>Roche Diagnostics GmbH, Mannheim, Germany, <sup>4</sup>Commonwealth Scientific Industry and Research Organisation/Australian E- Health Research Centre, Parkville, Melbourne, QLD, Australia, <sup>5</sup>The Florey Institute, The University of Melbourne, Parkville, Australia, <sup>6</sup>Austin Health, Department of Molecular Imaging and Therapy, Center for PET, Heidelberg, Victoria, Australia, <sup>7</sup>School of Medical and Health Sciences, Edith Cowan University, Joondalup, Australia, <sup>8</sup>Commonwealth Scientific Industry and Research Organisation/Australian E- Health Research Centre, Brisbane, QLD, Australia

11.15 - 12.15 p.m.

## Symposium 7

### Disclosure of Alzheimer's risk biomarkers to cognitively normal older adults

**Symposium co-moderators:** Athene Lee PhD<sup>1,2</sup> and Jessica Alber PhD<sup>1,2</sup>

<sup>1</sup>Warren Alpert Medical School of Brown University, Providence, RI, USA <sup>2</sup>Butler Hospital, Providence, RI, USA

#### Communication 1: "Not just a colonoscopy" – cognitively normal older adults reactions to learning an amyloid PET result

Jason Karlawish, MD<sup>1</sup>, Kristin Harkins, MPH<sup>2</sup>, Emily Largent, JD, PhD<sup>3</sup>, Pamela Sankar, PhD<sup>3</sup>, Jeff Burns, MD<sup>4</sup>, David Sulzer, MD<sup>5</sup>, Joshua Grill, PhD<sup>6</sup>

<sup>1</sup>Departments of Medicine, Medical Ethics and Health Policy, and Neurology, University of Pennsylvania, Philadelphia, PA, USA, <sup>2</sup>Department of Medicine, University of Pennsylvania, Philadelphia, PA, USA, <sup>3</sup>Department of Medical Ethics and Health Policy, University of Pennsylvania, Philadelphia, PA, USA, <sup>4</sup>Department of Neurology, University of Kansas, Kansas City, KS, USA, <sup>5</sup>Department of Psychiatry, University of California, Los Angeles, CA, USA, <sup>6</sup>Department of Psychiatry and Human Behavior, University of California, Irvine, CA, USA

#### Communication 2: Remote genetic counseling and disclosure of APOE genotype within the Generation study I

Elisabeth McCarty Wood, MS<sup>1</sup>, Cara Cacioppo, MS<sup>1</sup>, Neeraja Reddy, MS<sup>2</sup>, Dare Henry-Moss, MPH<sup>1</sup>, Demetrios Ofidis, BS<sup>1</sup>, Brian L. Egleston, PhD<sup>3</sup>, Jason Karlawish, MD<sup>1</sup>, J Scott Roberts, PhD<sup>4</sup>, Scott Kim, MD, PhD<sup>5</sup>, Carolyn Langlois, MA<sup>6</sup>, Eric M. Reiman, MD<sup>6</sup>, Pierre N. Tariot, MD<sup>6</sup>, Jessica B. Langbaum, PhD<sup>6</sup>, Angela R. Bradbury, MD<sup>1</sup>

<sup>1</sup>University of Pennsylvania, Philadelphia, PA, USA, <sup>2</sup>Mapmygenome, Navi Mumbai, India, <sup>3</sup>Fox Chase Cancer Center, Philadelphia, PA, USA, <sup>4</sup>University of Michigan, Ann Arbor, MI, USA, <sup>5</sup>National Institutes of Health, Bethesda, MD, USA, <sup>6</sup>Banner Alzheimer's Institute, Phoenix, AZ, USA

#### Communication 3: Application of an APOE disclosure model at a clinical trial site and the impact of dual disclosure of amyloid PET results

Louisa Thompson, PhD<sup>1,2</sup>, Athene Lee, PhD<sup>1,2</sup>, Meghan Collier, PhD<sup>1,2</sup>, Danielle Goldfarb, MD<sup>1</sup>, Brittany Dawson, FNP<sup>2</sup>, Stephen Salloway, MD<sup>1,2</sup>, Jessica Alber, PhD<sup>1,2</sup>

<sup>1</sup>Warren Alpert Medical School of Brown University, Providence, RI, USA, <sup>2</sup>Butler Hospital, Providence, RI, USA

12.15 - 1.15 p.m.

## Lunch and poster session

1.15 - 3.45 p.m.

## Oral communications

1.15 - 1.30 p.m.

### OC30 - Adult conditional BACE1 knockout mice exhibit axonal organization defects in the hippocampus

Robert Vassar, PhD Department of Neurology, Feinberg School of Medicine, Northwestern University, Chicago, USA

1.30 - 1.45 p.m.

### OC31 - TRC-PAD: Accelerating participant recruitment in AD clinical trials through innovation

Gustavo A. Jimenez-Maggiora, MBA<sup>1</sup>, Rema Raman, PhD<sup>1</sup>, Michael S. Rafii, MD, PhD<sup>1</sup>, Reisa Anne Sperling, MD<sup>2,3</sup>, Jeffrey Lee Cummings, MD<sup>4</sup>, Paul S. Aisen, MD<sup>1</sup>

<sup>1</sup>Alzheimer's Therapeutics Research Institute, University of Southern California, San Diego, CA, USA, <sup>2</sup>Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA, <sup>3</sup>Department of Radiology, Division of Nuclear Medicine and Molecular Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA, <sup>4</sup>Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, USA



# Saturday, October 27

- 1.45 - 2.00 p.m.** **OC32 - Detecting brain amyloid status using fully automated plasma A $\beta$  biomarker assays**  
Sebastian Palmqvist<sup>1</sup>, Shoren Janelidze, PhD<sup>1</sup>; Erik Stomrud, MD PhD<sup>1</sup>; Henrik Zetterberg, MD PhD<sup>2</sup>; Johann Karl, PhD<sup>3</sup>; Niklas Mattsson, MD PhD<sup>1</sup>; Kaj Blennow, MD PhD<sup>2</sup>; Udo Eichenlaub, PhD<sup>3</sup>; Oskar Hansson, MD PhD<sup>1</sup>  
<sup>1</sup>Clinical Memory Research Unit, Lund University, Sweden, <sup>2</sup>Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, the Sahlgrenska Academy at the University of Gothenburg, Sweden, <sup>3</sup>Roche Diagnostics GmbH, Penzberg, Germany
- 2.00 - 2.15 p.m.** **OC33 - Concordance of florbetapir (18F) PET and Elecsys<sup>®</sup>  $\beta$ -Amyloid(1-42) CSF immunoassay in the CREAD (BN29552) study of crenezumab in prodromal-to-mild AD**  
Timo Grimmer, MD<sup>1</sup>, Christina Rabe, PhD<sup>2</sup>, Mercidita Navarro, PhD<sup>2</sup>, David Clayton, PhD<sup>2</sup>, Ekaterina Manuilova, MSc<sup>3</sup>, Udo Eichenlaub, PhD<sup>3</sup>, Jillian Smith, BSc<sup>4</sup>, Susanne Ostrowitzki, MD, PhD<sup>2</sup>, Lee Honigberg, PhD<sup>2</sup>, Tobias Bittner, PhD<sup>5</sup>  
<sup>1</sup>Department of Psychiatry, Klinikum rechts der Isar, Technical University of Munich, Munich, Germany, <sup>2</sup>Genentech, Inc., South San Francisco, CA, USA, <sup>3</sup>Roche Diagnostics GmbH, Penzberg, Germany, <sup>4</sup>Roche Products Ltd, Welwyn Garden City, UK, <sup>5</sup>F. Hoffmann-La Roche Ltd, Basel, Switzerland
- 2.15 - 2.30 p.m.** **OC34 - Development of A $\beta$ , tau and cognitive changes during the time course of sporadic Alzheimer's disease**  
Niklas Mattsson, MD, PhD<sup>1</sup>, Oskar Hansson, MD, PhD<sup>1</sup>, Michael W. Weiner, MD<sup>2</sup>, Philip S. Insel, MS<sup>1,2</sup>  
<sup>1</sup>Clinical Memory Research Unit, Faculty of Medicine, Lund University, Lund, Sweden, <sup>2</sup>Center for Imaging of Neurodegenerative Diseases, Department of Veterans Affairs Medical Center, San Francisco, CA, USA
- 2.30 - 2.45 p.m.** **OC35 - U.S. POINTER: Study design and trial kick-off**  
Laura Baker, Ph.D.<sup>1</sup>; Mark Espeland, Ph.D.<sup>1</sup>; Miia Kivipelto, M.D., Ph.D., Gustavo Jimenez-Maggiora, MBA, Martha Clare Morris, Sc.D., Rema Raman, Ph.D., Scott Rushing, Heather M. Snyder, Ph.D., Jeff Williamson, M.D.<sup>1</sup>, Rachel Whitmer, Ph.D., Nancy Woolard<sup>1</sup>, Maria C. Carrillo, Ph.D.  
<sup>1</sup>Wake Forest School of Medicine On Behalf of the U.S. POINTER Study Team
- 2.45 - 3.00 p.m.** **OC36 - Implications for AD clinical trials and opportunities to leverage the first Alzheimer's association U.S. National Best Clinical Practice Guidelines for the evaluation of cognitive behavioral syndromes, Alzheimer's disease and related dementias**  
Alireza Atri, MD/PhD<sup>1,2</sup>, Mary Norman, MD<sup>3</sup>, David S. Knopman, MD<sup>4</sup>, Jason Karlawish, MD<sup>5</sup>, Mary Sano, Ph.D.<sup>6</sup>, Carolyn Clevenger, DNP<sup>7</sup>, Chiadi U Onyike, MD, MHS<sup>8</sup>, Susan Scanland, MSN, CRNP, GNPBC<sup>9</sup>, Paige Lin, PhD<sup>10</sup>, James Hendrix, PhD<sup>11</sup>, Maria C. Carrillo, Ph.D.<sup>11</sup>, Brad C. Dickerson, MD<sup>12</sup> and Alzheimer's Association Best Clinical Practices Workgroup  
<sup>1</sup>Banner Sun Health Research Institute/Banner Health, Sun City, AZ, USA, <sup>2</sup>Center for Brain/Mind Medicine, Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA, <sup>3</sup>Erickson Living, Dallas, TX, USA, <sup>4</sup>Mayo Clinic, Rochester, MN, USA, <sup>5</sup>University of Pennsylvania, Philadelphia, PA, USA, <sup>6</sup>James J. Peters VA Medical Center, New York, NY, USA, <sup>7</sup>Emory University, Atlanta, GA, USA, <sup>8</sup>Johns Hopkins University, Baltimore, MD, USA, <sup>9</sup>Dementia Connection, Clarks Summit, PA, USA, <sup>10</sup>Tufts Medical Center, Boston, MA, USA, <sup>11</sup>Alzheimer's Association, Chicago, IL, USA, <sup>12</sup>Massachusetts General Hospital/Harvard Medical School, Charlestown, MA, USA
- 3.00 - 3.15 p.m.** **OC37 - Pros and cons of AD composite endpoints considering recently revised regulatory guidance and 2018 NIA-AA research framework**  
Michael T. Ropacki, PhD<sup>1</sup>, Suzanne Hendrix, PhD<sup>2</sup>  
<sup>1</sup>Strategic Global Research & Development, Half Moon Bay, USA, <sup>2</sup>Pentara Corporation, Salt Lake City, USA
- 3.15 - 3.30 p.m.** **OC38 - The European Prevention of Alzheimer's Dementia (EPAD); Summary of First Formal Data Lock (EPAD V500.0) and predictors of amyloid status**  
Craig Ritchie, MD, PhD, Centre for Dementia Prevention, University of Edinburgh UK

3.45 p.m.

End of conference

- **Theme 1. Clinical trials: Methodology** pages 22 - 24  
*P21, P45, P54, P59, P61, P82, P86, P90, P91-P101 and LBP1 to LBP12*
- **Theme 2. Clinical trials: Results** pages 25 - 27  
*P7, P12, P13, P15-P18, P36, P80, P109-P112 and LBP13 to LBP21*
- **Theme 3. Clinical trials: Imaging** pages 28 - 29  
*P10, P35, P62, P76, P113-P124 and LBP21 to LBP24*
- **Theme 4. Clinical trials: Biomarkers including plasma** pages 30 - 34  
*P1, P4, P22, P28, P30, P39, P44, P57, P64-P66, P73, P78, P81, P125-P130 and LBP25 to LBP40*
- **Theme 5. Clinical trials: Cognitive and functional endpoints** pages 35 - 38  
*P2-P3, P8-P9, P19, P25-P27, P53, P67, P69, P71, P74, P77, P83, P140-P144, PP146-149 and LBP41 to LBP46*
- **Theme 6. Cognitive assessment and clinical trials** pages 39 - 42  
*P6, P14, P24, P29, P33-P34, P41-P42, P47-P52, P55, P63, P68, P70, P72, P75, P87-P89, P151-P159, P162 and LBP47 to LBP52*
- **Theme 7. Behavioral disorders and clinical trials** page 43  
*P32, P37, P43, P163 and LBP53*
- **Theme 8. Health economics and clinical trials** page 44  
*P17, P40, P58, P164*
- **Theme 9. Epidemiology and clinical trials** pages 45 - 46  
*P17, P38, P46, P165-P168 and LBP54 to LBP56*
- **Theme 10. Clinical Trials: Animal Models** page 47  
*P102-P104 and LBP58*
- **Theme 11. New therapies and clinical trials** pages 48 - 49  
*P5, P11, P20, P23, P56, P60, P79, P84-P85, P105-P108 and LBP59 to LBP62*

## Theme 1. Clinical trials: Methodology

### P21 - Patterns of MMSE subtest scores in amyloid-positive and -negative participants in J-ADNI

Ryoko Ihara, MD<sup>1</sup>, Kazushi Suzuki, MD<sup>1</sup>, Atsushi Iwata, MD<sup>2</sup>, Takeshi Iwatsubo, MD<sup>1,3</sup>, the Japanese Alzheimer's Disease Neuroimaging Initiative

<sup>1</sup>The Unit for Early and Exploratory Clinical Development, The University of Tokyo Hospital, Tokyo, Japan, <sup>2</sup>Department of Neurology, The University of Tokyo, Tokyo, Japan, <sup>3</sup>Department of Neuropathology, The University of Tokyo, Tokyo, Japan

### P45 - Innovations in care community-based recruitment to clinical trial research

Jacobo Mintzer, MD, MBA<sup>1</sup>, Mike Splaine<sup>2</sup>, Erin Beck, MPH<sup>3</sup>

<sup>1</sup>Research and Innovation Center, Roper St. Francis, Charleston, SC, USA; <sup>2</sup>Managing Partner, Recruitment, Partners LLC, Columbia, MD, USA, <sup>3</sup>Managing Partner, Recruitment Partners LLC, Columbia, MD, USA, <sup>3</sup>Director of Site Recruitment and Management, Recruitment Partners LLC, Columbia, MD, USA

### P54 - Validation of alzheimer's biomarkers: $\beta$ -amyloid 1-42 and total tau in CSF by automated CLEIA on lumipulse g 1200 platform

Satya Nandana Narla<sup>1</sup>, Amanda Dider<sup>1</sup>, Ming Hu<sup>1</sup>, Tina LV<sup>2</sup>, Yuan Xueling<sup>2</sup> and Martine Florent<sup>1</sup>

<sup>1</sup>Immunology Department, Covance Central Laboratories, Indianapolis, USA, <sup>2</sup>Immunology Department, Covance Central Laboratories, Shanghai, China

### P59 - The impact of frailty on the risk of screen failure in randomized controlled trials on Alzheimer's disease

Alessandro Trebbastoni, MD, PhD<sup>1</sup>, Marco Canevelli, MD, PhD<sup>1</sup>, Giuseppe Bruno, MD<sup>1</sup>, Carlo de Lena, MD<sup>1</sup>, Letizia Imbriano<sup>1</sup>, Fabrizia D'Antonio, MD<sup>1</sup>, Laura Pieroni<sup>1</sup>

<sup>1</sup>Department of Human Neuroscience, «Sapienza» University of Rome, Italy

### P61 - Concierge site services: site-specific support and capacity development improves recruitment performance

Jacobo Mintzer, MD, MBA<sup>1</sup>, Mike Splaine<sup>2</sup>, Erin Beck, MPH<sup>3</sup>

<sup>1</sup>Research and Innovation Center, Roper St. Francis, Charleston, SC, USA, <sup>2</sup>Managing Partner, Recruitment Partners LLC, Columbia, MD, USA, <sup>3</sup>Managing Partner, Recruitment Partners LLC, Columbia, MD, USA, <sup>3</sup>Director of Site Recruitment and Management, Recruitment Partners LLC, Columbia, MD, USA

### P82 - Meotis3rc: Efficient network for clinical research on cognitive disorders in North and Pas-de-Calais

Catherine Adnet-Bonte, MD<sup>1</sup>, Brigitte Leprince<sup>1</sup>, Laetitia Breuilh, PhD<sup>2,3</sup>, Florence Pasquier, MD, PhD<sup>2,3</sup>

<sup>1</sup>Meotis, Centre Hospitalier Universitaire de Lille, France, <sup>2</sup>Neurology Department, Centre Hospitalier Universitaire de Lille, France, <sup>3</sup>Excellence Laboratory DISTALZ, Inserm U1171, Univ Lille

### P86 - Recruiting older Latinos in senior centers with a culturally tailored Alzheimer's presentation

Jaime Perales, PhD<sup>1</sup>, MPH; W Todd Moore, MS<sup>1</sup>, Mariana Ramirez, LMSW<sup>1</sup>; Linda Lara, BA<sup>2</sup>; Erica Davis, BA<sup>3</sup>; Jason Resendez, MS<sup>4</sup>; Eric D Vidoni, PhD<sup>1</sup>

<sup>1</sup>University of Kansas Medical Center, Kansas-USA, <sup>2</sup>Guadalupe Center, Kansas City-USA, <sup>3</sup>Don Bosco Senior Center, Kansas City-USA, <sup>4</sup>LatinosAgainstAlzheimer's Coalition, Chevy Chase-USA U1171, Univ Lille

### P90 - REVERSE-SD: ongoing phase-2b study of neflamapimod designed in accordance with emerging scientific and regulatory concepts of early Alzheimer's disease (AD)

John Alam<sup>1</sup>, Kelly Blackburn<sup>1</sup>, Niels Prins<sup>2,3</sup>, Philip Scheltens<sup>2</sup>

<sup>1</sup>EIP Pharma Inc., Cambridge, MA, USA, <sup>2</sup>Department of Neurology and Alzheimer Centre, VU University Medical Center, Amsterdam, NL, <sup>3</sup>Brain Research Center, Amsterdam, NL

### P91 - A Phase 2b/3, Double-Blind, Randomized, Placebo-Controlled 48-Week Trial of ANAVEX®-2-73 for the Treatment of Early Alzheimer's Disease Together with Precision Medicine Genetic Biomarkers

Stephen Macfarlane, MBBS FRANZCP<sup>1</sup>, Michael Kornhauser BPharm<sup>1</sup>, Ella Modini BSc<sup>1</sup>, Harald Hampel, MD PhD<sup>2</sup>, Stephan Toutain MS<sup>3</sup>, Christopher Missling PhD<sup>3</sup>

<sup>1</sup>HammondCare Dementia Centre, NSW, Australia, <sup>2</sup>Sorbonne University, Paris, France, <sup>3</sup>Anavex Life Sciences Corp., New York, USA

### P92 - Impact of genetic testing on clinical trial participation and subject selection, a pilot study

Marieke Cajal-Berman, PhD<sup>1</sup>, Jessica Branning<sup>2</sup>, Vishnukartik Nitta, MS<sup>2</sup>

<sup>1</sup>Bioclinica Research, Orlando, FL, USA, <sup>2</sup>ClinCloud, Orlando, FL, USA

### P93 - The impact of Transcranial Magnetic Stimulation on diagnostic confidence in patients with Alzheimer Disease eligible for clinical trials

Alberto Benussi, MD<sup>1\*</sup>, Antonella Alberici, MD<sup>1\*</sup>, Clarissa Ferrari, MD<sup>2\*</sup>, Valentina Cantoni, MS<sup>1,3</sup>, Valentina Dell'Era, MD<sup>1</sup>, Rosanna Turrone, MS<sup>1</sup>, Maria Sofia Cotelli, MD<sup>4</sup>, Giuliano Binetti, MD<sup>2</sup>, Barbara Paghera, MD<sup>5</sup>, Giacomo Koch, MD<sup>6,7</sup>, Barbara Borroni, MD<sup>1</sup>, Alessandro Padovani, MD, PhD<sup>1</sup>

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**P94 - Applying patient-centred insights to optimize protocol design and increase biomarker collection acceptability in AD trials**Kenneth Stanley<sup>1</sup>, Carolina Rubel<sup>1</sup>, Lynne Hughes<sup>1</sup><sup>1</sup>IQVIA Project Leadership Unit**P95 - CSF biomarkers outcomes in the ETHERAL AD study**Harald Hampel<sup>1,2,3,4</sup>, Carlos Buesa<sup>5</sup>, Tamara Maes<sup>5</sup>, Mabel Arevalo<sup>5</sup>, Michele Lufino<sup>5</sup>, Roger Bullock<sup>5</sup><sup>1</sup>AXA Research Fund & Sorbonne University Chair, Paris, France, <sup>2</sup>Sorbonne University, GRC n° 21, Alzheimer Precision Medicine (APM), AP-HP, Pitié-Salpêtrière Hospital, Paris, France, <sup>3</sup>Brain & Spine Institute (ICM), INSERM U 1127, CNRS UMR 7225 Paris, France, <sup>4</sup>Institute of Memory and Alzheimer's Disease (IM2A), Department of Neurology, Pitié-Salpêtrière Hospital, AP-HP, Paris, France, <sup>5</sup>Oryzon Genomics SA, Barcelona, Spain**P96 - EMIF-AD: A unique pan-European platform for large-scale research on biomarkers and risk factors for Alzheimer's Disease**Preciosa M. Coloma<sup>1</sup>, Stephanie J. B. Vos<sup>2</sup>, Isabelle Bos<sup>2</sup>, Andy Simmons<sup>3</sup>, Rik Vandenberghe<sup>4</sup>, Philip Scheltens<sup>5</sup>, José Luis Molinuevo<sup>6,7</sup>, Flavio Nobili<sup>8</sup>, Sebastiaan Engelborghs<sup>9,10</sup>, Giovanni Frisoni<sup>11,12</sup>, Gaël Chetelat<sup>13</sup>, Alberto Lleó<sup>14</sup>, Anders Wallin<sup>15</sup>, Julius Popp<sup>16,17</sup>, Pablo Martinez-Lage<sup>18</sup>, Gonzalo Duran-Pacheco<sup>1</sup>, Pieter Jelle Visser<sup>2,5</sup>, Mark F Gordon<sup>19</sup>, Gerald Novak<sup>20</sup><sup>1</sup>Personalised Health Care, Data Science, F. Hoffmann-La Roche AG, Basel, Switzerland, <sup>2</sup>Department of Psychiatry and Neuropsychology, Alzheimer Center Limburg, Maastricht University, Maastricht, the Netherlands, <sup>3</sup>Institute of Psychiatry, Kings College, London, UK, <sup>4</sup>University Hospital Leuven, Leuven, Belgium, <sup>5</sup>Alzheimer Center, VU University Medical Center, Amsterdam, the Netherlands, <sup>6</sup>Alzheimer's disease & other cognitive disorders unit, Hospital Clinic-IDIBAPS, Barcelona, Spain, <sup>7</sup>Barcelona Beta Brain Research Center, Fundació Pasqual Maragall, Barcelona, Spain, <sup>8</sup>Clinical Neurology, Department of Neurosciences (DINO GMI), University of Genoa and IRCCS Polyclinic San Martino Hospital, Genoa, Italy, <sup>9</sup>Department of Neurology and Memory Clinic, Hospital Network Antwerp (ZNA) Middelheim and Hoge Beuken, Antwerp, Belgium, <sup>10</sup>Reference Center for Biological Markers of Dementia (BIODEM), Institute Born-Bunge, University of Antwerp, Antwerp, Belgium, <sup>11</sup>University of Geneva, Geneva, Switzerland, <sup>12</sup>IRCCS Istituto Centro San Giovanni di Dio Fatebenefratelli, Brescia, Italy, <sup>13</sup>Inserm, Inserm UMR-S U1237, Université de Caen-Normandie, GIP Cyceron, Caen, France, <sup>14</sup>Department of Neurology, Hospital de la Santa Creu i Sant Pau, Barcelona, Spain, <sup>15</sup>University of Gothenburg, Sahlgrenska Academy, Institute of Neuroscience and Physiology, Section for Psychiatry and Neurochemistry, Gothenburg, Sweden, <sup>16</sup>Geriatric Psychiatry, Department of Mental Health and Psychiatry, Geneva University Hospitals, Switzerland, <sup>17</sup>Department of Psychiatry, University Hospital of Lausanne, Lausanne, Switzerland, <sup>18</sup>CITA-Alzheimer Foundation, San Sebastian, Spain, <sup>19</sup>Teva Pharmaceuticals, Malvern, PA, USA, <sup>20</sup>Janssen Pharmaceutical Research and Development, Titusville, NJ, USA**P97 - Using transcription phenotypes to utilise basket trial methodology from oncology to create new targets in CNS disorders**Roger Bullock<sup>1</sup>, David Rotllant<sup>2</sup>, Michele Lufino<sup>2</sup>, Cristina Mascaro<sup>2</sup>, Carlos Buesa<sup>2</sup>, Tamara Maes<sup>2</sup>, Sonia Gutierrez<sup>2</sup>, Marta Valverde<sup>3</sup>, Tony Ramos<sup>3</sup><sup>1</sup>Oryzon Genomics, Barcelona, Spain, <sup>2</sup>Vall D'Hebron Hospital, Barcelona, Spain**P98 - Can online registers with small amounts of phenotypic data reduce screen failure rates in Alzheimer's disease trials?**Piers Kotting, MBA<sup>1</sup>, Kris Beicher<sup>2</sup>, Adam Smith<sup>3</sup>, Clare Shaw, PhD<sup>2</sup><sup>1</sup>University of Exeter Medical School, Exeter, UK, <sup>2</sup>University of Leeds, Leeds, UK, <sup>3</sup>Institute of Neurology, University College London, London, UK**P99 - Trial design of the GRADUATE studies: Phase III, randomized, placebo-controlled studies evaluating gantenerumab in patients with early Alzheimer's disease**Smiljana Ristic, MD<sup>1</sup>, Mercè Boada, MD, PhD<sup>2</sup>, Nathalie Pross, PhD<sup>1</sup>, Danielle Abi-Saab, PsyD<sup>1</sup>, Szofia Bullain, MD<sup>1</sup>, Mirjana Andjelkovic, PhD<sup>1</sup>, Paul Delmar, PhD<sup>1</sup>, Carsten Hofmann, PhD<sup>1</sup>, Alison Searle, BSc<sup>3</sup>, Monika Baudler, PhD<sup>1</sup>, Paulo Fontoura, MD, PhD<sup>1</sup>, Rachelle Doody, MD, PhD<sup>4</sup><sup>1</sup>F. Hoffmann-La Roche Ltd, Basel, Switzerland, <sup>2</sup>Barcelona Alzheimer Treatment and Research Center, Barcelona, Spain, <sup>3</sup>Roche Products Ltd, Welwyn Garden City, UK, <sup>4</sup>Genentech, Inc., South San Francisco, CA, USA**P100 - Study enrollment and Alzheimer's disease pathology in relation to cohort type and participant characteristics in the EPAD Registry**Lisa Vermunt, MD<sup>1</sup>, Graciela Muniz-Terrera, PhD<sup>2,3,4</sup>, Lea ter Meulen, MSc<sup>1</sup>, Colin Veal, PhD<sup>5</sup>, José Luis Molinuevo, MD, PhD<sup>6</sup>, Pierre-Jean Ousset, MD<sup>7,8</sup>, Niels D Prins, MD, PhD<sup>1,9</sup>, David Porteous, PhD<sup>2</sup>, Craig W Ritchie, PhD<sup>2</sup>, Philip Scheltens, MD, PhD<sup>1</sup>, Gerald Luscan, MSc<sup>10</sup>, Anthony J Brookes, PhD<sup>5</sup>, Pieter Jelle Visser, MD, PhD<sup>11</sup><sup>1</sup>VU University Medical Center, Amsterdam, Netherlands, <sup>2</sup>University of Edinburgh, Edinburgh, Scotland, <sup>3</sup>University of Victoria, Victoria, Canada, <sup>4</sup>University of Cambridge, Cambridge, England, <sup>5</sup>University of Leicester, Leicester, England, <sup>6</sup>Barcelona Beta Research Center, Barcelona, Spain, <sup>7</sup>Clinic University Hospital, Barcelona, Spain, <sup>8</sup>CHU Toulouse, Gérontopôle and INSERM UMR 1027, Toulouse, France, <sup>9</sup>Brain Research Center, Amsterdam, Netherlands, <sup>10</sup>Pfizer, Paris, France, <sup>11</sup>Maastricht University, Maastricht, Netherlands**P101 - The effects of participant characteristics and selection criteria on Alzheimer disease clinical trial outcomes**Richard E. Kennedy, MD, PhD<sup>1</sup>, Guoqiao Wang, PhD<sup>2</sup>, Mackenzie E. Fowler, MPH<sup>3</sup>, Gary R. Cutter, PhD<sup>4</sup>, Lon S. Schneider, MD, MS<sup>5</sup><sup>1</sup>Department of Medicine, University of Alabama at Birmingham, USA, <sup>2</sup>Division of Biostatistics, Washington University, St. Louis, USA, <sup>3</sup>Department of Epidemiology, University of Alabama at Birmingham, USA, <sup>4</sup>Department of Biostatistics, University of Alabama at Birmingham, USA, <sup>5</sup>Department of Psychiatry and the Behavioral Sciences, Keck School of Medicine of the University of Southern California, Los Angeles, USA

## Late Breaking Posters

### **LBP1 - Harnessing the power of big data and technology innovations to advance Alzheimer's disease clinical development**

Olga Uspenskaya-Cadoz<sup>1</sup>, Yuliya Nigmatullina<sup>2</sup>, Kenneth Stanley<sup>3</sup>, Chaitanya Alamuri<sup>2</sup>, Penny Randall<sup>1</sup>, Sam Khinda<sup>3</sup>, Lanhui Wang<sup>2</sup>, Mengting Yang<sup>2</sup>, Carolina Rubel<sup>3</sup>, Lynne Hughes<sup>3</sup>, Tao Cao<sup>2</sup>, Michelle O'Keefe<sup>2</sup>, Nikhil Kayal<sup>2</sup>

<sup>1</sup>IQVIA CNS Center of Excellence; <sup>2</sup>IQVIA Analytics Center of Excellence; <sup>3</sup>IQVIA Project Leadership

### **LBP2 - Course correction in A4: implementation of dose escalation**

Karen Holdridge, MPH<sup>1</sup>, Roy Yaari, MD<sup>1</sup>, Brian A. Willis, PhD<sup>1</sup>, Isabella Velona, MS<sup>1</sup>, Paul Aisen, MD<sup>2</sup>, Reisa Sperling, MD<sup>3</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, USA, <sup>2</sup>University of Southern California, San Diego, USA, <sup>3</sup>Brigham and Women's Hospital, Boston, USA

### **LBP3 - Dose escalation in the DIAN-TU solanezumab arm. Was solanezumab in mild to moderate AD dementia too little, too late?**

Karen Holdridge, MPH<sup>1</sup>, Roy Yaari, MD<sup>1</sup>, Brian A. Willis, PhD<sup>1</sup>, Isabella Velona, MS<sup>1</sup>, Susan Mills<sup>2</sup>, Randall Bateman<sup>2</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, USA, <sup>2</sup>Washington University, Saint Louis, USA

### **LBP4 - Does the US have enough clinical trials sites to keep up with the demand of new chemical and device compounds entering the NDA?**

Sean Stanton<sup>1</sup>, Dan Davis<sup>4</sup>, Vishnukartik Nitta, MS<sup>2</sup>, Jessica Branning, BS<sup>2</sup>, John Dwyer, JD<sup>3</sup>, Jason Bork, MBA<sup>3</sup>, James Taylor<sup>5</sup>, and George Vradenburg, JD<sup>6</sup>

<sup>1</sup>LifeCore Solutions, LLC, <sup>2</sup>ClinCloud, LLC, <sup>3</sup>Global Alzheimer's Platform, <sup>4</sup>Bioclinica Research, <sup>5</sup>Independent Consultant, Caregiver

### **LBP5 - Goal Attainment Scaling scores, without defined attainment levels, were associated with standardized measures in people with vascular and mixed dementia**

Kenneth Rockwood<sup>1,2</sup>, Justin Stanley<sup>1</sup>, Taylor Dunn<sup>1</sup>, Susan E Howlett<sup>1,2</sup>

<sup>1</sup>DGI Clinical Inc., Halifax, NS, Canada, <sup>2</sup>Dalhousie University, Halifax, NS Canada

### **LBP6 - Consultation for Alzheimer's disease prevention: an effective recruitment strategy for preventive trials**

Isabelle Carrie, PhD<sup>1</sup>, Julien Delrieu, MD<sup>1,2,3</sup>, Françoise Lala, MD<sup>1</sup>, Christophe Hein, MD<sup>1</sup>, Delphine Pennetier, PhD<sup>1</sup>, Pierre Jean Ousset, MD<sup>1,2,3</sup>, Bruno Vellas, MD, PhD<sup>1,2,3</sup>

<sup>1</sup>Gerontopole, Toulouse University Hospital, Toulouse-France, <sup>2</sup>Inserm Unit 1027, Toulouse, France, <sup>3</sup>University of Toulouse III, Toulouse, France

### **LBP7 - Finding a common baseline: Insights from latent disease-time progression modeling in Alzheimer's disease**

Lars Lau Raket, PhD<sup>1</sup>

<sup>1</sup>H. Lundbeck A/S, Denmark

### **LBP8 - The use of Machine Learning algorithms in Clinical Trials on Alzheimer's Disease**

Delia A. Gheorghe, MSc<sup>1</sup>, Sarah Bauermeister, PhD<sup>1</sup>, John Gallacher, PhD<sup>1</sup>

<sup>1</sup>University of Oxford, Department of Psychiatry, Oxford, UK

### **LBP9 - Predicting cerebral amyloid status and cognitive performance in cognitively normal adults**

Alette Wessels, PhD<sup>1</sup>, Adrian Schembri, DPsych<sup>2</sup>, Pav Kalinowski, PhD<sup>2</sup>, Reisa Sperling, MD<sup>3</sup>, Roy Yaari, MD<sup>1</sup>, Paul Aisen, MD<sup>4</sup>, David Barfield, MS<sup>1</sup>, Scott Andersen, MS<sup>1</sup>, John R. Sims, MD<sup>1</sup>, A4 Study Team, Paul Maruff, PhD<sup>2</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, IN, USA, <sup>2</sup>Cogstate Ltd, New Haven, Connecticut, CT, USA, <sup>3</sup>Center for Alzheimer Research and Treatment, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA, <sup>4</sup>Alzheimer's Therapeutic Research Institute, University of Southern California, San Diego

### **LBP10 - Novel patient identification and pre-screening model improves patient recruitment and retention and reduces screen-failure rates for AD clinical trials**

Lucianne Dobson PhD<sup>1</sup>, Miguel Rosa Grilo MD<sup>1</sup>, Catherine Mummery PhD, FRCP<sup>1</sup>

<sup>1</sup>Dementia Research Centre, National Hospital for Neurology and Neurosurgery, Queen Square, London, UK

### **LBP11 - Delivery of a Patient Focused In-Trial Online Community in a Multi-Year Alzheimer's Disease Study**

Adam Butler<sup>1</sup>, Denis Curtin, PhD<sup>1</sup>, Mackenzie Johnson<sup>1</sup>, and Jeff Lee<sup>1</sup>

<sup>1</sup>CRF Bracket, Arlington, VA, USA

### **LBP12 - Multi-crossover randomized controlled trial designs in Alzheimer's disease**

Steven E. Arnold, MD<sup>1</sup>, Rebecca A. Betensky, PhD<sup>2</sup>

<sup>1</sup>Massachusetts General Hospital and Harvard Medical School, Boston, USA, <sup>2</sup>Harvard T.H. Chan School of Public Health, Boston, MA



## Theme 2. Clinical trials: Results

### **P7 - Effects of vortioxetine on cognitive functions in patients with Alzheimer's disease and depressive symptoms: interim results of an observational study**

Eduardo Cumbo MD<sup>1</sup>, Silvia Cumbo MD<sup>1</sup>, Salvatore Torregrossa PsyD<sup>1</sup>, Daniela Migliore PsyD<sup>1</sup>

<sup>1</sup>Neurodegenerative Disorders Unit, ASP, <sup>2</sup>Caltanissetta, Caltanissetta (Italy)

### **P12 - Critical Path for Alzheimer's Disease (CPAD) consortium's vision for an aggregated, standardized, and actionable global Alzheimer disease clinical trial database**

Volker D. Kern, PhD<sup>1</sup>, Stephen P. Arneric, PhD<sup>1</sup>, Maria C. Carrillo, PhD<sup>2</sup>, James Hendrix, PhD<sup>2</sup>, Billy Dunn, MD<sup>3</sup>, Stacie Weninger, PhD<sup>4</sup>, Jeffrey A. Kaye, MD<sup>5</sup>, Daniel R. Karlin, MD<sup>6</sup>, Lisa H. Gold, PhD<sup>7</sup>, Michael Gold, MD<sup>8</sup>, Samantha Budd Haeberlein, PhD<sup>9</sup>, Molly Shea, PhD<sup>10</sup>, George VradenburgII, Daniela J. Conrado, PhD<sup>1</sup>, and Klaus Romero, MS, MD<sup>1</sup>

<sup>1</sup>Critical Path for Alzheimer's Disease Consortium, Critical Path Institute, Tucson, AZ, USA, <sup>2</sup>Alzheimer's Association, Chicago, IL, USA, <sup>3</sup>U.S. Food and Drug Administration, Silver Spring, MD, USA, <sup>4</sup>F-Prime Biomedical Research Initiative, Cambridge, MA, USA, <sup>5</sup>Oregon Health & Science University, Portland, OR, USA, <sup>6</sup>Pfizer, Boston, MA, USA, <sup>7</sup>Merck & Co., Inc., Kenilworth, NJ, USA, <sup>8</sup>AbbVie, North Chicago, IL, USA, <sup>9</sup>Biogen, Cambridge, MA, USA, <sup>10</sup>Novartis Pharmaceuticals Corporation, East Hanover, NJ, USA, <sup>11</sup>UsAgainstAlzheimer's, Washington, DC, USA

### **P13 - Effects of body weight on safety of 23mg donepezil in Alzheimer's disease: A post-hoc analysis of a multicenter, randomized trial**

Yun Jeong Hong, MD, PhD<sup>1,2</sup>, Hyun Jeong Han, MD, PhD<sup>3</sup>, Young Chul Youn, MD, PhD<sup>4</sup>, Kyung Won Park, MD, PhD<sup>5</sup>, Dong Won Yang, MD, PhD<sup>6</sup>, Sang Yun Kim, MD, PhD<sup>7</sup>, Hwa Jung Kim, MD, PhD<sup>8</sup>, Ji Eun Kim, MD, PhD<sup>9</sup>, Jae-Hong Lee, MD, PhD<sup>1</sup>, the ODESA study group

<sup>1</sup>Neurology, Asan Medical Center, University of Ulsan College of Medicine, Seoul, <sup>2</sup>Biomedical research institute, Pusan National University Hospital, Pusan, <sup>3</sup>Neurology, Dementia and Neurocognitive Center, Myongji Hospital, Seonam University College of Medicine, Ilsan, <sup>4</sup>Neurology, Chung-Ang University Hospital, Seoul, <sup>5</sup>Neurology, Dong-A University College of Medicine, Busan, <sup>6</sup>Neurology, The Catholic University of Korea, Seoul, <sup>7</sup>Neurology, Seoul National University College of Medicine & Neurocognitive Behavior Center, Seoul National University Bundang Hospital, Seongnam, <sup>8</sup>Preventive Medicine, Asan Medical Center, University of Ulsan College of Medicine, Seoul, <sup>9</sup>Neurology, University of Ulsan College of Medicine, Gangneung Asan Medical Center, Gangneung, Korea

### **P15 - A single ascending dose study to assess the safety, pharmacokinetics, and pharmacodynamics of LY3303560, a tau-specific antibody, in healthy volunteers**

Stephen Lowe<sup>1</sup>, Jeffrey Dage<sup>2</sup>, Ann Cleverley<sup>3</sup>, Albert Lo<sup>2</sup>, Elizabeth S. LaBell<sup>2</sup>, Hakop Gevorkyan<sup>4</sup>, Stanford Jhee<sup>5</sup>, Larry Huffman<sup>2</sup>, Boris Calderon<sup>2</sup>, Brian A. Willis<sup>2</sup>

<sup>1</sup>Lilly Centre for Clinical Pharmacology, Singapore, <sup>2</sup>Eli Lilly and Co, Indianapolis, IN, <sup>3</sup>Eli Lilly and Co, Erl Wood, UK, <sup>4</sup>California Clinical Trials Medical Group, Inc., <sup>5</sup>PAREXEL Early Phase, Glendale, CA, USA

### **P16 - CNP520, a novel oral BACE1 inhibitor, has no clinically meaningful effect on QTc interval up to supratherapeutic doses**

Stefan Viktor Vormfelde, MD/PhD<sup>1</sup>, Nicole Pezous<sup>1</sup>, Gilbert Lefèvre, PhD<sup>1</sup>, Carine Kolly, PhD<sup>1</sup>, Ulf Neumann, PhD<sup>1</sup>, Pierre Jordaan, MD<sup>2</sup>, Guenter Heimann, PhD<sup>2</sup>, Mike Ufer, MD/PhD<sup>1</sup>, Ana Graf, MD<sup>2</sup>, Eric Legangneux, MD<sup>1</sup>

<sup>1</sup>Novartis Institutes for BioMedical Research, Basel, Switzerland, <sup>2</sup>Novartis Pharma AG, Basel, Switzerland

### **P18 - Differences in treatment response between males and females with mild-moderate Alzheimer disease being treated with cholinesterase inhibitors**

Kenneth Rockwood, MD<sup>1,2</sup>, Justin Stanley, BSc<sup>1</sup>, Susan E Howlett, PhD<sup>1,2,3</sup>

<sup>1</sup>DGI Clinical Inc., Halifax, NS, Canada, <sup>2</sup>Division of Geriatric Medicine, Dalhousie University, Halifax, NS Canada, <sup>3</sup>Department of Pharmacology, Dalhousie University, Halifax, NS, Canada

### **P36 - Phase 1 Clinical Studies in Alzheimer's Disease: Cerebrospinal Fluid Oligomer Change and Other Exploratory Outcomes of amyloid $\beta$ Aggregate-Specific Antibody KHK6640**

Marc Cantillon, MD<sup>1</sup>, Hiroyuki Shimada, MD, PhD<sup>2</sup>, Kenichiro Sugiyama, Phar.B.<sup>3</sup>, Wei Sun, Ph.D.<sup>1</sup>, Yoshiumi Ouchi, M Eng<sup>3</sup>, Katsuyoshi Tsukii, MSc<sup>1</sup>, Gemma Clark, RGN RM<sup>4</sup>

<sup>1</sup>Kyowa Kirin Pharmaceutical Development, Inc., USA, <sup>2</sup>Osaka city university hospital, Osaka, Japan, <sup>3</sup>Kyowa Hakko Kirin Co., Ltd., Japan, <sup>4</sup>Kyowa Kirin International plc, UK

### **P80 - Cumulative aducanumab safety data from PRIME: a randomized, double-blind, placebo-controlled, Phase 1b study**

Philipp von Rosenstiel MD<sup>1</sup>, Tianle Chen, PhD<sup>1</sup>, John O'Gorman, PhD<sup>1</sup>, Min Yee, PharmD<sup>1</sup>, Carmen Castrillo-Viguera, MD, PhD<sup>1</sup>, Claudia Prada, MD<sup>1</sup>, Christoph Hock, MD<sup>2</sup>, Roger M Nitsch, MD<sup>2</sup>, Samantha Budd Haeberlein, PhD<sup>1</sup>, Alfred Sandrock, MD, PhD<sup>1</sup>

<sup>1</sup>Biogen, Cambridge, MA, USA, <sup>2</sup>Neurimmune, Schlieren-Zurich, and University of Zurich, Switzerland

**P109 - The action for health in diabetes clinical trial: does a 10-year intensive multidomain lifestyle intervention provide cognitive benefits?**

Kathleen M. Hayden, PhD<sup>1</sup>; José A. Luchsinger, MD<sup>2</sup>; Stephen R. Rapp, PhD<sup>1</sup>; Delilah R. Cook, CCRP<sup>1</sup>; Rebecca H. Neiberg, MS<sup>1</sup>; Judy L. Bahnsen, BA<sup>1</sup>; Tara D. Beckner<sup>1</sup>; Jerry M. Barnes, MA<sup>1</sup>; and Mark A. Espeland, PhD<sup>1</sup> for the Look AHEAD MIND Study Group

<sup>1</sup>Wake Forest School of Medicine, Winston-Salem, USA, <sup>2</sup>Columbia University, New York, USA

**P110 - Single and multiple dose safety, tolerability and pharmacokinetics of the selective M1 receptor partial agonist HTL0018318 in healthy volunteers**

Tim Tasker MBBS<sup>1</sup>, Jan Liptrot PhD<sup>1</sup>, Charlotte Bakker PhD<sup>2</sup>, Ellen 't Hart PhD<sup>2</sup>, Erica Klaassen PhD<sup>2</sup>, Samantha Prins MD<sup>2</sup>, Thalia van der Doef PhD<sup>2</sup>, Mike Walker<sup>2</sup>, Giles A. Brown PhD<sup>1</sup>, Alastair Brown PhD<sup>1</sup>, Miles Congreve PhD<sup>1</sup>, Malcolm Weir PhD<sup>1</sup>, Fiona H. Marshall PhD<sup>1</sup>, David M. Cross PhD<sup>4</sup>, Geert Jan Groeneveld MD, PhD<sup>2</sup>, Pradeep J. Nathan PhD<sup>1,3</sup>

<sup>1</sup>Sosei Heptares, Cambridge UK, <sup>2</sup>Centre for Human Drug Research (CDHR), Leiden, Netherlands, <sup>3</sup>Department of Psychiatry, University of Cambridge, UK, <sup>4</sup>Cross Pharma Consulting Limited, Cambridge, UK

**P111 - Assessing the psychological and emotional impact of APOE and amyloid disclosure in the API Generation Program: interim findings**

Jessica B. Langbaum, PhD<sup>1</sup>, Jason Karlawish, MD<sup>2</sup>, Scott Roberts, PhD<sup>3</sup>, Angela Bradbury, MD<sup>2</sup>, Scott Kim, MD, PhD<sup>4</sup>, Elisabeth McCarty Wood, MS<sup>2</sup>, Carolyn Langlois, MA<sup>1</sup>, Fonda Liu PharmD<sup>5</sup>, Marie-Emmanuelle PhD<sup>6</sup>, Marie-Laure Rouzade-Dominguez, PhD<sup>6</sup>, Angelika Caputo, PhD<sup>6</sup>, Mauritz Bezuidenhout, M.Sc<sup>6</sup>, Cristina Lopez-Lopez, MD, PhD<sup>6</sup>, Ana Graf, MD<sup>6</sup>, Pierre N. Tariot, MD<sup>1</sup>, Eric M. Reiman, MD<sup>1</sup>

<sup>1</sup>Banner Alzheimer's Institute, Phoenix, USA, <sup>2</sup>University of Pennsylvania, Philadelphia, USA, <sup>3</sup>University of Michigan, Ann Arbor, USA, <sup>4</sup>National Institutes of Health, Bethesda, USA, <sup>5</sup>Novartis Pharmaceuticals Corporation, East Hanover, USA, <sup>6</sup>Novartis Pharma AG, Basel, Switzerland

**P112 - Meta-analysis of two tau aggregation inhibitor Phase 3 trials in mild Alzheimer's disease with low dose hydromethylthionine**

Bjoern Schelter, PhD<sup>1,2</sup>, Claude Wischik, MD, PhD<sup>1,2</sup>

<sup>1</sup>Institute for Complex Systems and Mathematical Biology, University of Aberdeen, Aberdeen, UK, <sup>2</sup>TauRx Therapeutics, Aberdeen, UK

## Late Breaking Posters

**LBP13 - Cognitive and mobility training as preventive measures in cognitively healthy patients and patients with MCI**

Carine Federspiel, MD<sup>1,2</sup>, Elisabeth Bourkel, PhD<sup>1</sup>, Jean-Paul Steinmetz, PhD<sup>1,2</sup>

<sup>1</sup>Centre for memory and mobility, ZithaAktiv, Luxembourg, <sup>2</sup>ZithaSenior, Research&Development, Luxembourg

**LBP14 - Evidence of Sustained Low Dose Bryostatin Efficacy for Treatment of Alzheimer's Disease: Consistency of Multiple Evaluation Analyses**

Daniel Alkon, PhD<sup>1</sup>, LJ Wei, PhD<sup>2</sup>, Richard Thompson, PhD<sup>3</sup>

<sup>1</sup>Neurotope, Inc, <sup>2</sup>Harvard University, <sup>3</sup>Johns Hopkins University

**LBP15 - Enterovirus might be involved in Alzheimer's disease - results from a phase IIa trial evaluating Apovir, an antiviral drug combination**

Lars-Olof Wahlund, MD, PhD<sup>1</sup>, Lars Lindqvist MD, PhD<sup>2</sup>, Mikael Åström MSc, PhD<sup>3</sup>, Jacob Westman PhD<sup>4</sup>, Roger Bullock MD, PhD<sup>5</sup>, Suzanne Hendrix<sup>6</sup>, Nina Lindblom, PhD<sup>4</sup>

<sup>1</sup>Karolinska University Hospital, Huddinge, Sweden, <sup>2</sup>Karolinska University Hospital, Huddinge, Sweden, <sup>3</sup>StatCons, Limhamn, Sweden, <sup>4</sup>Apodemus AB, Solna, Sweden, <sup>5</sup>Roger Bullock Consulting Ltd, Swindon, UK, <sup>6</sup>Pentara Corporation, Salt Lake City, USA

**LBP16 - A randomized, placebo controlled, repeat dose phase 1 study of COR388 in older healthy volunteers and patients with Alzheimer's disease**

Samer Kaba, MD<sup>1</sup>, Casey Lynch<sup>1</sup>, Mark Ryder, DMD<sup>2</sup>, Ira Goodman, MD<sup>3</sup>, Steve Thien, MD<sup>4</sup>, Steve Dominy, MD<sup>1</sup>

<sup>1</sup>Cortexyme, S. San Francisco, CA, <sup>2</sup>UCSF, San Francisco, CA, <sup>3</sup>Bioclinica, Orlando, FL, <sup>4</sup>Pacific Research Network, San Diego, CA

**LBP17 - Souvenaid in cognitive deterioration. Our experience after 5 years of treatment and follow-up**

Miquel Aguilar MD, PhD<sup>1</sup> and Paquita Soler, Nurse<sup>1</sup>

<sup>1</sup>Àptima Mutua Terrassa, Catalunya, SPAIN

### **LBP18 - Is RAGE the missing link between diabetes and dementia? Results from a subgroup analysis of the STEADFAST trial**

Carmen Valcarce, PhD<sup>1</sup>, Imogene Dunn, PhD<sup>1</sup>, Tom Soeder, MS<sup>2</sup>, and Aaron Burstein, PharmD<sup>1</sup>

<sup>1</sup>Viv Therapeutics LLC, High Point, NC, USA, <sup>2</sup>CATO Research Ltd, Durham, NC, USA

### **LBP19 - Aducanumab 48-month analyses from PRIME, a Phase 1b study in patients with early Alzheimer's disease**

Philipp von Rosenstiel, MD<sup>1</sup>, Samantha Budd Haeberlein, PhD<sup>1</sup>, Carmen Castrillo-Viguera, MD<sup>1</sup>, Tianle Chen, PhD<sup>1</sup>, John O'Gorman, PhD<sup>1</sup>, Raj Rajagovindan, PhD<sup>1</sup>, Dakshaben Patel, PhD<sup>2</sup>, Guanfang Wang, PhD<sup>3</sup>, Spyros Chalkias, MD<sup>1</sup>, LeAnne Skordos PharmD<sup>1</sup>, Claudia Prada, MD<sup>1</sup>, Christoph Hock, MD<sup>4</sup>, Roger M Nitsch, MD<sup>4</sup>, Alfred Sandrock, MD, PhD<sup>1</sup>

<sup>1</sup>Biogen, Cambridge, MA, USA, <sup>2</sup>Biogen, Maidenhead, UK, <sup>3</sup>Cytel, Cambridge, MA, USA, <sup>4</sup>Neurimmune, Schlieren-Zurich, and University of Zurich, Switzerland

### **LBP20 - Lu AF20513, an active immunotherapy against amyloid beta, in development for patients in early stages of Alzheimer's disease**

Bjørn Sperling, MD<sup>1</sup>, Lars Østergaard Pedersen, PhD<sup>1</sup>, Neli Boneva, MD<sup>1</sup>, Dorthe Daugaard, MD<sup>1</sup>, Yudong Zhao, PhD<sup>1</sup>

<sup>1</sup>H. Lundbeck A/S, Valby, Denmark

### **LBP21 - Baseline Data from the API Autosomal Dominant Alzheimer's Disease Colombia Trial**

Pierre N. Tariot<sup>1\*</sup>, Francisco Lopera<sup>2\*</sup>, Kaycee M. Sink<sup>3</sup>, Nan Hu<sup>3</sup>, Heather Guthrie<sup>3</sup>, Jillian Smith<sup>4</sup>, William Cho<sup>3</sup>, Jessica B. Langbaum<sup>1</sup>, Ronald G. Thomas<sup>5</sup>, Kewei Chen<sup>1</sup>, Yi Su<sup>1</sup>, Dhruvan Goradia<sup>1</sup>, Pradeep Thiyyagura<sup>1</sup>, Paul S VanGilder<sup>1</sup>, Ji Luo<sup>1</sup>, Valentina Ghisays<sup>1</sup>, Wendy Lee<sup>1</sup>, Michael H. Malek-Ahmadi<sup>1</sup>, Hillary D. Protas<sup>1</sup>, Yinghua Chen<sup>1</sup>, Carole Ho<sup>3</sup>, Shehnaaz Suliman<sup>3</sup>, Sergio Alvarez<sup>5</sup>, Yakeel T. Quiroz<sup>6</sup>, Robert Paul<sup>7</sup>, Silvia Rios Romenets<sup>2\*\*</sup>, Eric M. Reiman<sup>1\*\*</sup>, and the API ADAD Colombia Trial Group

<sup>1</sup>Banner Alzheimer's Institute, Phoenix, AZ, USA, <sup>2</sup>Grupo de Neurociencias de Antioquia of Universidad de Antioquia, Medellin, CO, <sup>3</sup>Genentech Inc., South San Francisco, CA, USA, <sup>4</sup>Roche Products Ltd, Welwyn Garden City, UK, <sup>5</sup>University of California, San Diego, CA, USA, <sup>6</sup>Hospital Pablo Tobon Uribe, Medellin, CO, <sup>7</sup>Harvard Medical School and Massachusetts General Hospital, Boston MA, USA

## Theme 3. Clinical trials: Imaging

### P10 - Diagnostic accuracy of [18F]FC119S PET for identifying Alzheimer's disease

Byung Hyun Byun, MD, PhD<sup>1</sup>, Sang Moo Lim, MD, PhD<sup>1</sup>

<sup>1</sup>Department of Nuclear Medicine, Korea Cancer Center Hospital, Korea Institute of Radiological & Medical Sciences, Seoul, Republic of Korea

### P35 - Annual atrophy rate in normal aging from a large single-center cohort in Korea

Yu Yong Choi<sup>1</sup>, Byeong C. Kim<sup>2</sup>, Seong-Min Choi<sup>2</sup>, Kee Hyung Park<sup>3</sup>, Kyu Yeong Choi<sup>1</sup>, Kun Ho Lee<sup>1,4</sup>

<sup>1</sup>National Research Center for Dementia, Chosun University, Gwangju, South Korea, <sup>2</sup>Department of Neurology, Chonnam National University Hospital, Gwangju, South Korea, <sup>3</sup>Department of Neurology, Gachon University College of Medicine, Incheon, South Korea, <sup>4</sup>Department of Biomedical Science, Chosun University, Gwangju, South Korea

### P62 - Impact of cerebral blood flow changes on 18F-florbetaben SUVR. A simulation study

Santiago Bullich, PhD<sup>1</sup>, Norman Koglin, PhD<sup>1</sup>, Susan De Santi, PhD<sup>2</sup>, Georg A. Becker, PhD<sup>3</sup>, Audrey Perrotin, PhD<sup>1</sup>, Aleksandar Jovalekic, PhD<sup>1</sup>, Andrew Stephens, MD, PhD<sup>1</sup>, Henryk Barthel, MD, PhD<sup>3</sup>, Osama Sabri, MD, PhD<sup>3</sup>

<sup>1</sup>Piramal Imaging GmbH, Berlin, Germany, <sup>2</sup>Piramal Pharma Inc., Boston, MA, USA, <sup>3</sup>Department of Nuclear Medicine, University Hospital Leipzig, Leipzig, Germany

### P76 - F-AV-1451 in TDP-43 associated frontotemporal dementia

Ruben Smith, MD, PhD<sup>1</sup>, Alexander F Santillo, MD, PhD<sup>1</sup>, Maria Landqvist Waldö, MD, PhD<sup>2</sup>, Oskar Hansson, MD, PhD<sup>1,3</sup>

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### P113 - Predicting amyloid burden from cognitive assessment

Donald R. Royall, MD<sup>1,4</sup>, Raymond F. Palmer, PhD<sup>3</sup> for the Alzheimer's Disease Neuroimaging Initiative

<sup>1</sup>Department of Psychiatry, The University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, Texas, USA, <sup>2</sup>Department of Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>3</sup>Department of Family & Community Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>4</sup>South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC), San Antonio, Texas, USA

### P114 - The triple use of amyloid PET in Alzheimer's disease

Federica Ribaldi, MS<sup>1,2</sup>, Moira Marizzoni, PhD<sup>1</sup>, Valentina Garibotto, MD<sup>3</sup>, Michela Pievani, PhD<sup>1</sup>, Giovanni B Frisoni, MD<sup>1,3</sup>

<sup>1</sup>IRCCS Fatebenefratelli, Brescia, Italy, <sup>2</sup>University of Brescia, Brescia, Italy, <sup>3</sup>Geneva University Hospitals, Geneva, Switzerland

### P115 - A comparison of cortical reporter regions for longitudinal analysis of 18F-AV1451 PET data

David Scott, PhD<sup>1</sup>, Katarzyna Adamczuk, PhD<sup>1</sup>, Beth Gorman, BS CNMT<sup>2</sup>, Maureen Runkle, BS CNMT R.T.(N.)<sup>2</sup>, Joyce Suhy, PhD<sup>1</sup> and the Alzheimer's Disease Neuroimaging Initiative

<sup>1</sup>Bioclinica, Newark, CA, USA, <sup>2</sup>Bioclinica, Philadelphia, PA, USA

### P116 - Can tau PET imaging be instrumental in predicting an elevated amyloid level in clinical trials?

Sergey Shcherbinin, PhD<sup>1</sup>, Michael J. Pontecorvo, PhD<sup>2</sup>, Ming Lu, MD, MS, MPH<sup>2</sup>, Michael D. Devous Sr, PhD<sup>2</sup>, A. Joshi, PhD<sup>2</sup>, Sudeepti Southekal, PhD<sup>2</sup>, Emily C. Collins, PhD<sup>1,2</sup>, Adam S. Fleisher, MD<sup>2</sup>, Mark A. Mintun, MD<sup>1,2</sup>

<sup>1</sup>Eli Lilly & Co, Indianapolis, IN, USA, <sup>2</sup>Avid Radiopharmaceuticals, Inc., Philadelphia, PA, USA

### P117 - Supratentorial white matter is a better reference for longitudinal quantification of [18F]Flutemetamol scans

Gemma Salvadó MSc<sup>1</sup>, Chris Foley PhD<sup>2</sup>, Elisabetta Grecchi, PhD<sup>2,3</sup>, M. Jorge Cardoso, PhD<sup>4,5</sup>, Isadora Lopes-Alves, PhD<sup>6</sup>, Pawel Markiewicz, PhD<sup>5</sup>, Carles Falcon, PhD<sup>1</sup>, Mark Battle MSc<sup>2</sup>, Adriaan A. Lammertsma, PhD<sup>6</sup>, Mark Schmidt, MD, PhD<sup>7</sup>, José Luis Molinuevo MD PhD<sup>1</sup>, Frederik Barkhof, MD, PhD<sup>5,6</sup>, Juan Domingo Gispert, PhD<sup>1</sup>

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### P118 - Clinical validation of 18F-PI-2620 for quantification of tau in subjects with Alzheimer's disease

Andrew Stephens<sup>1</sup>, Andre Mueller<sup>1</sup>, Santiago Bullich<sup>1</sup>, Mathias Berndt<sup>1</sup>, John Seibyl<sup>2</sup>, Olivier Barret<sup>2</sup>, Jennifer Madonia<sup>2</sup>, Heiko Kroth<sup>3</sup>, Andrea Pfeifer<sup>3</sup>, Andreas Muhs<sup>3</sup>, Gilles Tamagnan<sup>2</sup>, Kenneth Marek<sup>2</sup>, Ludger Dinkelborg<sup>1</sup>

<sup>1</sup>Piramal Imaging, Berlin, Germany, <sup>2</sup>Invicro, New Haven, USA, <sup>3</sup>AC Immune SA, Lausanne, Switzerland

### P119 - Cut-off for 18F-flutemetamol SUVr with white matter reference region

Katarzyna Adamczuk, PhD<sup>1</sup>, David Scott, PhD<sup>1</sup>, Ben Newton, PhD<sup>3</sup>, Joyce Suhy, PhD<sup>1</sup>, Michael Egan, MD<sup>2</sup>, Cyrille Sur, PhD<sup>2</sup>

<sup>1</sup>Bioclinica, Newark, CA, USA, <sup>2</sup>Merck Sharp & Dohme, Kenilworth, NJ, USA, <sup>3</sup>General Electric Health Care, Amersham, UK

### P120 - Amyloid PET Imaging in a Phase IIa, Randomized, Double-Blind, Placebo-Controlled, 3-Arm Parallel-Group, Multicenter Study with UB-311

Hui Jing Yu<sup>1</sup>, Hui-Chen Chen<sup>1</sup>, Jacob Hesterman<sup>2</sup>, Jack Heimann<sup>2</sup>, Sean Holmes<sup>2</sup>, Alex Whittington<sup>2</sup>, Xue Wang<sup>2</sup>, Roger Gunn<sup>2</sup>, Ajay Verma<sup>1</sup>

<sup>1</sup>United Neuroscience, Inc. Hauppauge, NY, USA, <sup>2</sup>Invicro, A Konica Minolta Company, Boston, MA, USA

**P121 - Cortical dopamine depletion and cognition in Lewy bodies disorders: a 123I-FP-CIT single-subject study**

Andrea Pilotto<sup>1,2</sup> and Francesca Schiano di Cola<sup>1</sup>, MD and, MD; Enrico Premi<sup>1</sup>, MD; Roberto Grasso<sup>1</sup> PsyD, Rosanna Turrone<sup>1</sup>, PsyD; MD; Stefano Gipponi<sup>1</sup>, MD, Andrea Scalvini<sup>1</sup>, MD; Elisabetta Cottini<sup>1</sup>, Barbara Paghera<sup>3</sup>, Laura Bonanni<sup>4</sup>, PhD; MD; Maria Cristina Rizzetti<sup>2</sup>, PhD; Barbara Borroni<sup>1</sup>, MD; **Alessandro Padovani<sup>1</sup>**, PhD, MD

<sup>1</sup>Neurology Unit, Department of Clinical and Experimental Sciences, University of Brescia, Brescia, Italy, <sup>2</sup>Parkinson's Disease Rehabilitation Centre, FERB ONLUS S. Isidoro Hospital, Trescore Balneario (BG), Italy, <sup>3</sup>Nuclear Medicine Unit, University of Brescia, Brescia, Italy, <sup>4</sup>Department of Neuroscience Imaging and Clinical Sciences, University G. d'Annunzio of Chieti-Pescara, Chieti, Italy

**P122 - Very early detection and treatment monitoring of Alzheimer's Disease in the retina by multimode, hyperspectral confocal scanning ophthalmoscopy**

**Daniel L. Farkas**, PhD<sup>1,2</sup>, Fartash Vasefi, PhD<sup>1</sup>, Jeanne M. Fontana, MD, PhD<sup>1</sup>

<sup>1</sup>The Brain Window, Inc., Sherman Oaks CA, USA, <sup>2</sup>University of Southern California, Los Angeles CA, USA

**P123 - Quantitative Analysis on The Goodness of Harmonization with Multivariate Analysis of Field Strength, Sex, Age and Total Intracranial Volume**

**Mirza Faisal Beg**, PhD<sup>1</sup>, Da Ma, PhD<sup>1</sup>, Karteek Popori<sup>1</sup>, Mahadev, MD<sup>2</sup>, Lei Wang, PhD<sup>3</sup>

<sup>1</sup>School of Engineering Science, Simon Fraser University, Vancouver, BC, Canada, <sup>2</sup>Faculty of Medicine, University of British Columbia, Vancouver, BC, Canada, <sup>3</sup>Feinberg School of Medicine, Northwestern University, Chicago, Illinois, USA

**P124 - Prescribing Cholinesterase inhibitors in mild cognitive impairment – observations from the Alzheimer's Disease Neuroimaging Initiative**

Eddie Stage<sup>1</sup>, Diana Svaldi PhD<sup>1</sup>, Sophie Sokolow PhD MPharm<sup>2,5,6</sup>, Shannon L. Risacher PhD<sup>1</sup>, Krisztina Marosi<sup>2</sup>, Kwangsik Nho PhD<sup>1</sup>, Jerome I Rotter MD<sup>3,4</sup>, Andrew J. Saykin PsyD<sup>1</sup>, **Liana G. Apostolova** MD MS<sup>1</sup>

<sup>1</sup>Indiana Alzheimer Disease Center, Indianapolis, IN, USA, <sup>2</sup>UCLA School of Nursing, Los Angeles, CA, USA, <sup>3</sup>Division of Genomic Outcomes, Department of Pediatrics and Medicine, Harbor-UCLA Medical Center, Torrance, CA, USA, <sup>4</sup>Institute for Translational Genomics and Population Sciences and Department of Pediatrics, Los Angeles Biomedical Research Institute, Torrance, CA, USA, <sup>5</sup>UCLA Brain Research Institute, Los Angeles, CA, USA, <sup>6</sup>UCLA Clinical and Translational Science Institute, Los Angeles, CA, USA

## Late Breaking Posters

**LBP21 - Prediction of Treatment Response to Donepezil using Automated Hippocampal Subfields Volumes Segmentation in Patients with Mild Alzheimer's Disease**

**Sheng-Min Wang**, MD, PhD<sup>1</sup>, Yoo Hyun Um, MD, PhD<sup>2</sup>, Chang-Uk Lee MD, PhD<sup>3</sup>, and Hyun Kook Lim, MD, PhD<sup>3</sup>

<sup>1</sup>Department of Psychiatry, Yeouido St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea, <sup>2</sup>St. Vincent's Hospital, College of Medicine, The Catholic University of Korea, Suwon, Republic of Korea, <sup>3</sup>Department of Psychiatry, Seoul St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Seoul, Republic of Korea

**LBP22 - Role of Confluent White Matter Lesions in the progression to Alzheimer's dementia in an Asian Clinic Cohort**

Nagaendran Kandiah

National Neuroscience Institute, Singapore

**LBP23 - APOE4/4 Early to Mild AD Subjects Show High Rates of Hippocampal Atrophy and Cognitive Decline in ADNI-1 and Tramiprosate Datasets**

**Susan Abushakra** MD<sup>1</sup>, Luc Bracoud MS<sup>2</sup>, Joël Schaerer<sup>2</sup>, Aidan Power MD<sup>1</sup>, John Hey PhD<sup>1</sup>, David Scott PhD<sup>3</sup>, Joyce Suh PhD<sup>3</sup>, Martin Tolar MD PhD<sup>1</sup> & the Alzheimer Disease Neuroimaging Initiative (ADNI)

<sup>1</sup>Alzheon Inc., Framingham, MA, USA, <sup>2</sup>Bioclinica, Lyon France, <sup>3</sup>Bioclinica, Newark CA, USA

**LBP24 - Preliminary characterization of 18F-RO948 PET imaging among cognitively unimpaired and patients with MCI or dementia in the BioFINDER2 study**

**Gregory Klein<sup>1</sup>**, Ruben Smith<sup>2</sup>, Sebastian Palmqvist<sup>2</sup>, Niklas Mattsson<sup>2</sup>, Danielle van Westen<sup>2</sup>, Olof Strandberg<sup>2</sup>, Jonas Jögi<sup>2</sup>, Tomas Ohlsson<sup>2</sup>, Edilio Borroni<sup>1</sup>, Preciosa Coloma<sup>1</sup>, Erik Stomrud<sup>2</sup>, Oskar Hansson<sup>2</sup>

<sup>1</sup>Roche Pharma Research and Early Development, Basel, Switzerland, <sup>2</sup>Clinical Memory Research Unit, Lund University, Sweden

## Theme 4. Clinical trials: Biomarkers including plasma

### P1 - Sustained attention and memory tasks with concurrent EEG provide potential biomarkers for mild cognitive impairment

Shani Waninger, Ph.D.<sup>1</sup>, Chris Berka<sup>1</sup>, Amir Meghdadi, Ph.D.<sup>1</sup>, David Salat, M.D.<sup>2</sup> and Ajay Verma, M.D., Ph.D.<sup>3</sup>

<sup>1</sup>Advanced Brain Monitoring, Inc., Carlsbad, CA, <sup>2</sup>MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging, Department of Radiology, Massachusetts General Hospital, Charlestown, MA, <sup>3</sup>United Neuroscience, Dublin, Ireland

### P4 - High correlation in the A $\beta$ 40 and A $\beta$ 42 levels in human cerebrospinal fluid as measured by ELISA and HPLC-MS/MS

José A. Allué, PhD, Leticia Sarasa, PhD, Virginia Pérez-Grijalba, PhD, Noelia Fandos, PhD, Pedro Pesini, PhD, Manuel Sarasa, PhD.

Araclon Biotech S.L., Via Hispanidad 21, 50.009, Zaragoza, Spain

### P22 - Cerebrospinal fluid biomarkers in J-ADNI: diagnostic accuracy in AD and predictability of future clinical change in MCI

Kazushi Suzuki MD, PhD<sup>1</sup>, Ryoko Ihara MD, PhD<sup>1</sup>, Atsushi Iwata MD, PhD<sup>1</sup>, Takeshi Iwatsubo MD, PhD<sup>1</sup>, Kenji Ishii MD<sup>2</sup>, Takeshi Ikeuchi MD, PhD<sup>3</sup>, Ryozo Kuwano MD, PhD<sup>3</sup>, Japanese Alzheimer's Disease Neuroimaging Initiative

<sup>1</sup>The University of Tokyo, Tokyo, Japan, <sup>2</sup>Tokyo Metropolitan Institute of Gerontology, Tokyo, Japan, <sup>3</sup>Niigata University, Niigata, Japan

### P28 - Analytical performance of the Lumipulse® G pTau 181 and Lumipulse® G $\beta$ -Amyloid 1-40 assays

Manu Vandijck, Martine Dauwe, Rosina Degrieck, Els Huyck, Nathalie Le Bastard, Geert Jannes, Vesna Kostanjevecki

Fujirebio Europe NV, Ghent, Belgium

### P30 - Curcumin is Detectable in Human Cerebrospinal Fluid after Oral Administration of Turmeric Extract HSRx-888

Norman Relkin MD, PhD<sup>1</sup>, Dan Li PhD<sup>2</sup>, Joshua Costin PhD<sup>2</sup>, David Wyatt MD<sup>3</sup>

<sup>1</sup>Relkin Consulting LLC, Harrington Park, NJ 07640, <sup>2</sup>HerbalScience Group, Naples FL, USA, <sup>3</sup>Syneos Health, Miami FL, USA

### P39 - Diagnostic biomarkers' clinical applicability in early onset Alzheimer's disease

Neus Falgàs<sup>1</sup>, Raquel Sánchez-Valle<sup>1</sup>, Mircea Balasa<sup>1,2</sup>, Sergi Borrego<sup>1</sup>, Magdalena Castellví<sup>1</sup>, Adrià Tort-Merino<sup>1</sup>, Jaume Olives<sup>1</sup>, Beatriz Bosch<sup>1</sup>, Guadalupe Fernández<sup>1</sup>, Francisco Lomeña<sup>3</sup>, Núria Bargalló<sup>4</sup>, Albert Lladó<sup>1</sup>

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### P44 - Inverse association between A $\beta$ 42/40 plasma ratios and fibrillary amyloid deposition in the brain: results of the FACEHBI study

Itziar de Rojas, MSc<sup>1</sup>, Judith Romero, MSc<sup>2</sup>, Octavio Rodríguez-Gomez, MD<sup>1</sup>, Pedro Pesini, PhD<sup>2</sup>, Angela Sanabria, PhD<sup>1</sup>, Alba Pérez-Cordon, MSc<sup>1</sup>, Carla Abdelnour, MD<sup>1</sup>, Isabel Hernández, MD, PhD<sup>1</sup>, Maitee Rosende-Roca, MD<sup>1</sup>, Ana Mauleón, MD<sup>1</sup>, Liliana Vargas, MD<sup>1</sup>, Montserrat Alegret, PhD<sup>1</sup>, Ana Espinosa, PhD<sup>1</sup>, Gemma Ortega, PhD<sup>1</sup>, Silvia Gil, MD, PhD<sup>1</sup>, Marina Guitart, MSc<sup>1</sup>, Anna Gailhajane, MSc<sup>1</sup>, Miguel Angel Santos-Santos, MD, PhD<sup>1</sup>, Sonia Moreno-Grau, MSc<sup>1</sup>, Oscar Sotolongo-Grau, PhD<sup>1</sup>, Susana Ruiz, MN<sup>1</sup>, Laura Montreal, MLT<sup>1</sup>, Elvira Martín, MSc<sup>1</sup>, Esther Pelejà<sup>1</sup>, Francisco Lomeña, MD, PhD<sup>3</sup>, Francisco Campos, PhD<sup>3</sup>, Assumpta Vivas, MD<sup>4</sup>, Marta Gómez-Chiari, MD<sup>4</sup>, Miguel Angel Tejero, MSc<sup>4</sup>, Joan Giménez, MD<sup>4</sup>, Virginia Pérez-Grijalba, PhD<sup>2</sup>, Marta Marquí, MD, PhD<sup>1</sup>, Gemma Monté-Rubio, PhD<sup>1</sup>, Sergi Valero, PhD<sup>1</sup>, Adelina Orellana, PhD<sup>1</sup>, Lluís Tàrraga, MSc<sup>1</sup>, Manuel Sarasa, PhD<sup>2</sup>, Agustín Ruiz, MD, PhD<sup>1</sup>, Mercè Boada, MD, PhD<sup>1</sup>, on behalf of the FACEHBI study

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### P57 - Concordance of the CSF Abeta42/Abeta40 ratio with amyloid-PET in the BioFINDER study

Oskar Hansson MD PhD<sup>1,2</sup>, Katharina Zink MSc<sup>3</sup>, Simone Wahl PhD<sup>3</sup>, Monika Widmann ChTech<sup>4</sup>, Sandra Rutz PhD<sup>3</sup>, Maryline Simon PhD<sup>5</sup>, Kaj Blennow MD PhD<sup>6,7</sup>, Erik Stomrud MD PhD<sup>1,2</sup>

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### P64 - Novel pre-analytical protocol for handling of cerebrospinal fluid samples for the analysis of Alzheimer's Disease biomarkers in clinical practice

Oskar Hansson MD PhD<sup>1,2</sup>, Erik Stomrud, MD PhD<sup>1,2</sup>, Sandra Rutz PhD<sup>3</sup>, Valeria Lifke PhD<sup>3</sup>, Ekaterina Bauer MBA PhD<sup>3</sup>, Udo Eichenlaub PhD<sup>3</sup>, Richard Batrla MD PhD<sup>4</sup>, Ekaterina Manuilova MSc<sup>4</sup>, Mehmet Can Mert PhD<sup>4</sup>, Simone Wahl PhD<sup>4</sup>, Kaj Blennow, MD, PhD<sup>5,6</sup>

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**P65 - Serum-Based Proteins as Novel Biomarkers for the Diagnosis of Alzheimer's Disease**Shu Yu<sup>1\*</sup>, Yue-Ping Liu<sup>2</sup>

<sup>1</sup>State Key Laboratory of Military Stomatology and National Clinical Research Center for Oral Disease and Shaanxi Clinical Research Center for Oral Disease, Department of Laboratory Medicine, School of Stomatology, Fourth Military Medical University, Xi'an, Shaanxi Province 710000, China, <sup>2</sup>Department of Laboratory Medicine, 477th Hospital of PLA, Xiangyang, Hubei Province 400013, China, \*: Corresponding author

**P66 - TREM2 DNA methylation: A potential biomarker or therapeutic target**Lynn Bekris<sup>1</sup>, Rumana Akhter<sup>1</sup>, Yvonne Shao<sup>1</sup>, Maria Khrestian<sup>1</sup>, Giana D'Aleo<sup>1</sup>, Shane Formica<sup>1</sup>, James B. Leverenz<sup>2</sup>

<sup>1</sup>Genomic Medicine Institute, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, <sup>2</sup>Cleveland Clinic Lou Ruvo Center for Brain Health, Cleveland Clinic, Cleveland, Ohio

**P73 - Immune state in cognitive impairment of aged and the use of Actovegin and Ceraxone in out-patients of Alzheimer's centre**Nataliya Mikhaylova<sup>1</sup>, Lubov Androsova<sup>2</sup>

<sup>1</sup>MD, PhD Geriatric psychiatry Department, Mental health research centre, Moscow, Russia, <sup>2</sup>PhD, Immunology laboratory, Mental health research centre, Moscow, Russia

**P78 - Modifiable Alzheimer's risk biomarkers**Christine Ganzer<sup>1</sup>, Alon Seifan, MD<sup>2</sup>, Krista Ryon<sup>3</sup>, Elizabeth Maiche MCMSc, PA-C<sup>4</sup>

<sup>1</sup>Hunter College, NY, <sup>2</sup>NeuroWell Free, Ft. Lauderdale, Florida, <sup>3</sup>Hunter College, NY, <sup>4</sup>NeuroWell Free, Ft. Lauderdale, Florida

**P81 - Serum NFL, TAU, GFAP and UCHL-1 in Alzheimer disease patients with different decline profile**Mélissa Jacob, MD<sup>1,2,3</sup>, Aleksandra Maceski, PhD<sup>3</sup>, Stiene Rickaert PhD<sup>3</sup>, Audrey Gabelle MD, PhD<sup>1,2,4</sup>, Sylvain Lehmann MD, PhD<sup>2,3</sup>

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**P125 - An ultra-sensitive molecular immuno-assay for quantification of human SNAP25 in cerebrospinal fluid**Eugeen Vanmechelen, PhD<sup>1</sup>, Jeroen Vanbrabant, PhD<sup>1</sup>, Naomi De Roeck, BcS2, Maria Bjerke, PhD<sup>2</sup>, Sebastiaan Engelborghs, MD, PhD<sup>2,3</sup>, Ann De Vos, PhD<sup>1</sup>

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**P126 - Plasma and CSF biomarkers for the diagnosis of Alzheimer's disease in adults with Down Syndrome. A cross-sectional study**Maria Carmona-Iragui, MD, PhD<sup>1,2,3</sup>, Bessy Benejam, MSc<sup>2</sup>, Susana Fernández, MD<sup>2</sup>, Laura Videla, MSc<sup>1,2,3</sup>, Isabel Barroeta, MD, PhD<sup>1,3</sup>, Daniel Alcolea, MD, PhD<sup>1,3</sup>, Jordi Pegueroles, MSc<sup>1,3</sup>, Laia Muñoz, MSc<sup>1,3</sup>, Olivia Belbin, PhD<sup>1,3</sup>, Jordi Clarimón, PhD<sup>1,3</sup>, Mony John de Leon, Ed.D<sup>4</sup>, Sebastián Videla, MD, PhD<sup>2,5</sup>, Aleksandra Maleska Maceski, MSc<sup>6</sup>, Christophe Hirtz, PhD<sup>6</sup>, Constance Delaby, PhD<sup>6</sup>, Sylvain Lehmann, PhD<sup>6</sup>, Rafael Blesa, MD PhD<sup>1,3</sup>, Alberto Lleó, MD, PhD<sup>1,3</sup>, Juan Fortea, MD PhD<sup>1,2,3</sup>

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**P127 - The application of Polygenic Risk Score analysis to Stratification of Subjects for Clinical Trials in Alzheimer's Disease in carriers and non-carriers of the ApoE4 risk allele**Richard Pither PhD<sup>3</sup>, Ganna Leonenko<sup>1</sup>, Rebecca Simms<sup>1</sup>, Paula Daunt PhD<sup>3</sup>, Greg Davidson PhD<sup>3</sup>, Alex Gibson PhD<sup>3</sup>, Olusegun Oshota PhD<sup>3</sup>, Maryam Shoai PhD<sup>2</sup>, Kevin Banks<sup>3</sup>, Simon M Laws PhD<sup>4</sup>, Zsuzsanna Nagy<sup>6</sup> and John Hardy, PhD, DSc<sup>2</sup>, Julie Williams PhD<sup>1,6</sup>, Valentina Escott-Price, PhD<sup>1,6</sup>

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**P128 - Do short Aβ-peptides impact the time course of cognitive decline? An ADNI analysis**Markus von Kienlin, PhD<sup>1</sup>, Paul Delmar, PhD<sup>1</sup>, Katharina Buck, PhD<sup>2</sup>, Charlotta Schärfe<sup>2</sup>, Simone Wahl, PhD<sup>2</sup>, Karlheinz Baumann, PhD<sup>2</sup>, Irene Gerlach, PhD<sup>1</sup>, Tania Nikolcheva, MD, PhD<sup>1</sup>

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**P129 - Measuring oligomerization tendency of plasma as a new blood-based biomarker for Alzheimer's disease**SangYun Kim, MD, PhD<sup>1,2</sup>, Sungmin Kang, MS<sup>3</sup>, Seong Soo A. An, PhD<sup>4</sup>, Young Chul Youn, MD, PhD<sup>5</sup>

<sup>1</sup>Department of Neurology, Seoul National University College of Medicine, <sup>2</sup>Clinical Neuroscience Center, Seoul National University Bundang Hospital, <sup>3</sup>PeopleBio Company, <sup>4</sup>Department of Bionano Technology, Gachon Medical Research Institute, Gachon University, <sup>5</sup>Department of Neurology, Chung-Ang University College of Medicine

### **P130 - Transcranial magnetic stimulation predicts cognitive decline in Alzheimer's disease patients**

Giacomo Koch MD, PhD<sup>1,2</sup>, Caterina Motta MD<sup>2</sup>, Francesco Di Lorenzo MD<sup>2</sup>, Maria Concetta Pellicciari PhD<sup>2</sup>, Sonia Bonni PhD<sup>2</sup>, Silvia Picazio PhD<sup>2</sup>, Carlo Caltagirone MD<sup>2</sup>, Alessandro Martorana MD<sup>3</sup>

<sup>1</sup>Department of Behavioral and Clinical Neurology, <sup>2</sup>Santa Lucia Foundation IRCCS, Rome, Italy, <sup>3</sup>University of Tor Vergata, Rome, Italy

### **P131 - Non-core biomarkers (neurofilament light, neurogranin, 14-3-3 and YKL-40) in the Alzheimer's disease continuum, frontotemporal dementia and prion diseases diagnosis**

Anna Antonell, PhD<sup>1</sup>, Adrià Tort, MSc<sup>1</sup>, José Ríos, MSc<sup>2</sup>, Sergi Borrego, MD<sup>1</sup>, Mircea Balasa, MD<sup>1</sup>, Cristina Muñoz-García<sup>1</sup>, Beatriz Bosch, PhD<sup>1</sup>, Neus Falgàs, MD<sup>1</sup>, Lorena Rami, PhD<sup>1</sup>, Kaj Blennow, MD, PhD<sup>3</sup>, Henrik Zetterberg, PhD<sup>4,5</sup>, José Luis Molinuevo, MD, PhD<sup>1</sup>, Albert Lladó, MD, PhD<sup>1</sup>, Raquel Sánchez-Valle, MD, PhD<sup>1</sup>

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### **P132 - Amyloid blood biomarker detect Alzheimer's disease**

Klaus Gerwert, Prof. Dr.<sup>1</sup>

<sup>1</sup>Ruhr-Universität Bochum, Bochum, Germany

### **P133 - Early diagnosis of Mild Cognitive Impairment and Alzheimer's disease based on salivary lactoferrin**

Eva Carro<sup>1</sup>, Gorka Orive<sup>2</sup>

<sup>1</sup>Networked Biomedical Research Center in Neurodegenerative Diseases (CIBERNED), Spain; Group of Neurodegenerative Diseases, Hospital 12 de Octubre Research Institute (imas12), Madrid, Spain, <sup>2</sup>Laboratory of Pharmacy and Pharmaceutical Technology, Faculty of Pharmacy, University of the Basque Country, Vitoria, Spain; Networked Biomedical Research Center in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), Spain

### **P134 - Exome-sequencing in patients with early-onset Alzheimer's disease and Frontotemporal dementia: causal mutations and genetic variants in risk genes for dementia**

Anna Antonell, PhD<sup>1</sup>, Raquel Sánchez-Valle, MD, PhD<sup>1</sup>, Neus Falgàs, MD<sup>1</sup>, Mircea Balasa, MD, PhD<sup>1</sup>, Debayan Datta, PhD<sup>2</sup>, Lluís Armengol, PhD<sup>2</sup>, Sergi Borrego, MD<sup>1</sup>, Guadalupe Fernández<sup>1</sup>, Beatriz Bosch, PhD<sup>1</sup>, Jaume Olives<sup>1</sup>, Cristina Muñoz-García<sup>1</sup>, María León<sup>1</sup>, Magdalena Castellví<sup>1</sup>, Adrià Tort<sup>1</sup>, Albert Lladó, MD, PhD<sup>1</sup>

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### **P135 - The future of blood-based kinase biomarkers in Alzheimer's disease**

Jacques Hugon, Julien Dumurgier, Emmanuel Cognat, Claire Paquet

Center of Cognitive Neurology, Lariboisière Hospital, AP-HP, University of Paris Diderot, Paris France

### **P136 - A prototype SIMOA assay quantifying plasma amyloid beta 1-42 and 1-40 isoforms can differentiate AD from healthy control subjects**

Charlotte E. Teunissen, PhD<sup>1</sup>, Elisabeth Thijssen, MSc<sup>2</sup>, Inge M. W. Verberk, MSc<sup>2</sup>, Hugo Marcel Vanderstichele, PhD<sup>3</sup>, Hans Heijst<sup>2</sup>, Harry Twaalfhoven<sup>2</sup>, Kimberley Mauroo BSc<sup>3</sup>, Philip Scheltens, MD, PhD<sup>4</sup>, and Erik Stoops, Eng<sup>3</sup>

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### **P137 - Serum-Based Proteins as Novel Biomarkers for the Diagnosis of Alzheimer's Disease**

Shu Yu<sup>1\*</sup>, Yue-Ping Liu<sup>2</sup>

<sup>1</sup>State Key Laboratory of Military Stomatology and National Clinical Research Center for Oral Disease and Shaanxi Clinical Research Center for Oral Disease, Department of Laboratory Medicine, School of Stomatology, Fourth Military Medical University, Xi'an, Shaanxi Province China, <sup>2</sup>Department of Laboratory Medicine, 477th Hospital of PLA, Xiangyang, Hubei Province, China. \*: Corresponding author

### **P138 - Inflammatory markers tracking cognitive and biomarker heterogeneity in MCI stage of Alzheimer's Disease**

Jagan A Pillai MBBS PhD<sup>1,2,3</sup>, James Bena MS<sup>4</sup>, Lynn M Bekris PhD<sup>5</sup>, James B Leverenz MD<sup>1,2,3</sup>

<sup>1</sup>Lou Ruvo Center for Brain Health, <sup>2</sup>Neurological Institute and <sup>3</sup>Department of Neurology, <sup>4</sup>Quantitative Health Sciences, <sup>5</sup>Genomic Medicine Institute, Cleveland Clinic, Cleveland, OH, USA

### **P139 - The pitfalls for clinical trials of the use of time points earlier than 90 min for the [18F]MK-6240 SUVR calculation**

Tharick A. Pascoal MD<sup>1</sup>, Sulantha Mathotaarachchi MSc<sup>1</sup>, Mira Chamoun PhD<sup>2</sup>, Joseph Therriault BSc<sup>1</sup>, Robert Hopewell PhD<sup>2</sup>, Gassan Massarweh PhD<sup>2</sup>, Andrea L. Benedet<sup>1</sup>, MSc, BSc, Min Su Kang<sup>1</sup>, Serge Gauthier<sup>1</sup>, MD, Pedro Rosa-Neto<sup>1</sup>, MD, PhD

<sup>1</sup>Translational Neuroimaging Laboratory, McGill University Research Centre for Studies in Aging, McGill University, Montreal, Canada



## Late Breaking Posters

### LBP25 - Discovery of AN Endogenous Metabolite of Tramiprosate and its Prodrug ALZ-801 that Inhibits Beta Amyloid Oligomer Formation in Human Brain

John A. Heyl<sup>1</sup>, Petr Kocis, Jakub Hort<sup>2,3</sup>, Susan Abushakral, Aidan Power<sup>1</sup>, Martin Vyhnaček<sup>2,3</sup>, Jeremy Y. Yu<sup>1</sup> and Martin Tolar<sup>1</sup>

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### LBP26 - Novel use of aptamer libraries for prediction of amyloid status from blood serum

Gregory Penner<sup>1</sup>, Soizic Lecocq<sup>1</sup>, Anaëlle Chopin<sup>1</sup>, Simone Lista<sup>2,3,4,5</sup>, Andrea Vergallo<sup>2,3,4,5</sup>, Enrica Cavedo<sup>2,3,4,5</sup>, Francois-Xavier Lejeune<sup>4</sup>, and Harald Hampel<sup>2,3,4,5</sup> the INSIGHT-preAD study group and the Alzheimer Precision Medicine Initiative (APMI)

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### LBP27 - Novel cerebrospinal fluid synaptic markers in Alzheimer's disease for potential use in clinical trials

Alberto Lleó MD, PhD<sup>1,2</sup>, Raúl Núñez-Llaves<sup>2,3</sup>, Daniel Alcolea MD, PhD<sup>1,2</sup>, Martí Colom-Cadena PhD<sup>2,3</sup>, Laia Muñoz<sup>2,3</sup>, Marta Querol-Vilaseca<sup>2,3</sup>, Jordi Pegueroles<sup>2,3</sup>, Lorena Rami PhD<sup>4</sup>, Albert Lladó MD, PhD<sup>4</sup>, José L. Molinuevo MD, PhD<sup>4</sup>, Mikel Tainta MD, PhD<sup>5</sup>, Jordi Clarimón PhD<sup>2,3</sup>, Tara Spire-Jones PhD<sup>6</sup>, Rafael Blesa MD, PhD<sup>1,2</sup>, Juan Fortea MD, PhD<sup>1,2</sup>, Pablo Martínez-Lage MD, PhD<sup>5</sup>, Raquel Sánchez-Valle MD, PhD<sup>4</sup>, Àlex Bayés PhD<sup>7,8</sup>, Olivia Belbin PhD<sup>2,3</sup>

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### LBP28 - Diminished platelet-derived hsa-miR-150-5p expression as biomarker for dementia with Lewy bodies versus Alzheimer's disease

Katrin Beyer, PhD<sup>1</sup>, Ana Gámez-Valero, PhD<sup>1,2</sup>, Jaume Campdelacreu, MD, PhD<sup>3</sup>, Dolores Vilas, MD, PhD<sup>4</sup>, Lourdes Ispuerto, MD, PhD<sup>4</sup>, Jordi Gascón-Bayarri, MD<sup>3</sup>, Ramón Reñé, MD, PhD<sup>3</sup>, Ramiro Álvarez, MD<sup>4</sup>, Maria P Armengol, PhD<sup>5</sup>, Francesc E. Borràs, PhD<sup>2</sup>

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### LBP29 - Development of polygenic risk scores (PRS) for common neuropathology

Julie Collens, PhD<sup>1</sup>, Mike Nalls, PhD<sup>1</sup>, Marcel van der Brug, PhD<sup>1</sup>

<sup>1</sup>Vivid Genomics, Inc. San Diego, CA, USA

### LBP30 - The Italian Inter-Societal consensual algorithm for the biomarker-based diagnosis of mild cognitive impairment

Marina Boccardi, PhD<sup>1,2</sup>, Valentina Nicolosi, MS<sup>1</sup>, Cristina Festari, MS<sup>1,3</sup>, Angelo Bianchetti, MD<sup>4,5</sup>, Stefano Cappa, MD<sup>1,6,7</sup>, Davide Chiasserini, PhD<sup>8,9</sup>, Andrea Falini, MD<sup>10-13</sup>, Ugo Paolo Guerra, MD<sup>14,15</sup>, Flavio Nobili, MD<sup>15-17</sup>, Alessandro Padovani, MD<sup>7,18</sup>, Giulia Maria Sancesario, PhD<sup>9,19</sup>, Francesca Benedetta Pizzini, PhD<sup>13,20</sup>, Alberto Beltramello, MD<sup>13,21</sup>, Marcello Ciaccio, MD<sup>9,22</sup>, Orazio Schillaci, MD<sup>15,23</sup>, Marco Trabucchi, MD<sup>5,24</sup>, Fabrizio Tagliavini, MD<sup>25</sup>, Giovanni Battista Frisoni, MD<sup>22,26</sup>

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### LBP31 - Secondary structure of Aβ as blood biomarker

Klaus Gerwert Department of Biophysics Ruhr University Bochum, Germany

**LBP32 - BDNF as a biomarker for the effects of p38 MAPK $\alpha$  inhibition on IL-1 $\beta$ -induced impairment of hippocampal synaptic plasticity**John Alam MD<sup>1</sup>, Charlotte Teunissen PhD<sup>2</sup>, Niels Prins MD PhD<sup>3,4</sup>, Hui-May Chu PhD<sup>5</sup>, Philip Scheltens MD PhD<sup>3</sup><sup>1</sup>EIP Pharma Inc, Cambridge MA, USA, <sup>2</sup>Department of Clinical Chemistry, VU University Medical Center, Amsterdam, NL, <sup>3</sup>Department of Neurology and Alzheimer Centre, VU University Medical Center, Amsterdam, NL, <sup>4</sup>Brain Research Center, Amsterdam, NL, <sup>5</sup>Anoixis Corporation, Framingham MA, USA**LBP33 - Impact of pre-analytical sample handling on Elecsys A $\beta$ 40, A $\beta$ 42 and tTau immunoassays in plasma**Malgorzata Rozga, PhD<sup>1</sup>, Tobias Bittner, PhD<sup>2</sup>, Richard Batrla-Utermann, MD, MBA<sup>3</sup>, Johann Karl, PhD<sup>1</sup><sup>1</sup>Roche Diagnostics GmbH, Penzberg, Germany, <sup>2</sup>Genentech, A member of the Roche Group, Basel, Switzerland, <sup>3</sup>Roche Diagnostics International AG, Rotkreuz, Switzerland**LBP34 - Agreement between visual amyloid PET and cerebrospinal fluid A $\beta$ 1-42, A $\beta$ 1-40, t-Tau and p-Tau on the LUMIPULSE G fully automated platform**Alberto Lleó<sup>1,2</sup>, Jordi Pegueroles<sup>1,2</sup>, Laia Muñoz<sup>1,2</sup>, Valle Camacho<sup>3</sup>, Diego López-Mora<sup>3</sup>, Alejandro Fernández-León<sup>3</sup>, Nathalie Le Bastard<sup>4</sup>, Els Huyck<sup>4</sup>, Alicia Nadal<sup>5</sup>, Verónica Olmedo<sup>5</sup>, Víctor Montal<sup>1,2</sup>, Eduard Vilaplana<sup>1,2</sup>, Rafael Blesa<sup>1,2</sup>, Juan Fortea<sup>1,2</sup>, Daniel Alcolea<sup>1,2</sup><sup>1</sup>Sant Pau Memory Unit, Neurology Department, Hospital de la Santa Creu i Sant Pau, Biomedical Research Institute Sant Pau, Universitat Autònoma de Barcelona, Barcelona, Spain, <sup>2</sup>Centro de Investigación Biomédica en Red de Enfermedades Neurodegenerativas. CIBERNED, Spain, <sup>3</sup>Nuclear Medicine Department, Hospital de la Santa Creu i Sant Pau, Biomedical Research Institute Sant Pau, Universitat Autònoma de Barcelona, Barcelona, Spain, <sup>4</sup>Fujirebio Europe NV, Gent, Belgium, <sup>5</sup>Fujirebio Iberia, SLU, Barcelona, Spain**LBP35 - Does non-disclosure of APOE genotyping prevent subject interest or participation in clinical trials?**Sean Stanton<sup>1</sup>, Vishnukartik Nitta, MS<sup>2</sup>, Jessica Branning, BS<sup>2</sup><sup>1</sup>LifeCore Solutions, Winter Park, USA, <sup>2</sup>ClinCloud, LLC, Orlando, USA**LBP36 - Measurement of pathological amyloid in a patient cohort in routine clinical assessment: comparison of visual [18F]Flutemetamol PET read and CSFs measures**Nenad Bogdanovic<sup>1</sup>, Enrico Fantoni<sup>2</sup> & Gill Farrar<sup>2</sup><sup>1</sup>Karolinska Institutet, Stockholm, Sweden and University Hospital Oslo, Oslo University, Norway, <sup>2</sup>GE Healthcare Life Sciences. Amersham, UK and Boston, USA**LBP37 - Kinetic measurement of newly generated BACE1-cleaved APP in the human central nervous system in Alzheimer's disease: a pilot study**Robert J. Vassar, PhD<sup>1</sup>, Randall J. Bateman, MD<sup>2</sup>, Bruce W. Patterson, PhD<sup>3</sup>, Justyna A. Dobrowolska Zakaria, PhD<sup>1</sup><sup>1</sup>Department of Neurology, Northwestern University, Feinberg School of Medicine, Chicago, IL, USA, <sup>2</sup>Department of Neurology, Washington University in St. Louis, St. Louis, MO, USA, <sup>3</sup>Department of Medicine, Washington University in St. Louis, St. Louis, MO, USA**LBP38 - Reliability of a rapid APOE assay for Alzheimer's risk assessment and clinical trial screening**Athene Lee, PhD<sup>1,2</sup>, William Menard, BA<sup>2</sup>, Gina Tonini, MBA<sup>2</sup>, Louisa Thompson, PhD<sup>1,2</sup>, Jessica Alber, PhD<sup>1,2</sup>, Stephen Salloway, MD<sup>1,2</sup><sup>1</sup>Warren Alpert Medical School of Brown University, Providence, RI, USA, <sup>2</sup>Butler Hospital, Providence, RI, USA**LBP39 - Cerebrospinal fluid profiling of multiple pathophysiological pathways in Alzheimer's disease**Steven Arnold MD, PhD<sup>1</sup>, Bianca A. Trombetta<sup>2</sup>, Becky C. Carlyle, PhD<sup>2</sup><sup>1</sup>Massachusetts General Hospital and Harvard Medical School, <sup>2</sup>Department of Neurology, Massachusetts General Hospital, Harvard Medical School, Boston, MA**LBP40 - Interim biomarker analyses of phase II study data on safety and efficacy of GMCSF in mild-to-moderate Alzheimer's disease**Timothy D. Boyd, PhD<sup>1,2</sup>, Jonathan Woodcock, MD<sup>1,3</sup>, Stefan Sillau, PhD<sup>1,3</sup>, Vanesa Adame, BS<sup>1,2</sup>, Thomas Borges, MD<sup>1,4</sup>, Ashesh Thaker, MD<sup>1,4</sup>, Brianne Bettscher, PhD<sup>1,5</sup>, Joseph Daniels, MS<sup>1,3</sup>, Kate Heffernan, BS<sup>1</sup>, Huntington Potter, PhD<sup>1,2,3</sup><sup>1</sup>Rocky Mountain Alzheimer's Disease Center, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, <sup>2</sup>Linda Crnic Institute for Down Syndrome, University of Colorado Anschutz Medical Campus, Aurora, CO, USA, <sup>3</sup>Department of Neurology, University of Colorado at Anschutz Medical Campus, Aurora, CO, USA, <sup>4</sup>Department of Radiology, University of Colorado at Anschutz Medical Campus, Aurora, CO, USA, <sup>5</sup>Department of Neurosurgery, University of Colorado at Anschutz Medical Campus, Aurora, CO, USA

## Theme 5. Clinical trials: Cognitive and functional endpoints

### P2 - Objectively measured physical activity and cognitive function

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### P3 - D-Cycloserine improves difficult discriminations in a pattern separation task in Alzheimer's disease: Implications for dentate gyrus activity and neurogenesis

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### P8 - A Multicenter, Open-label, 24-week Follow-up Study for Efficacy on Cognitive Function of Donepezil in Binswanger-Type Subcortical Vascular Dementia

Jay Cheol Kwon, M.D.<sup>1</sup>, Eung Gyu Kim, M.D.<sup>2</sup>, Jae Woo Kim, M.D.<sup>3</sup>, Oh Dae Kwon, M.D.<sup>4</sup>, Bong Goo Yoo M.D.<sup>5</sup>, Nam-Gon Kim, M.D.<sup>6</sup>, Nack Cheon Choi, M.D.<sup>7</sup>, Seon young Ahn, M.A., Byung Hwa Lee, M.D.<sup>8</sup>, Myong Jin Kang, M.D.<sup>9</sup>, Dae Seob Choi, M.D.<sup>10</sup>, The BKVD Study Group

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### P9 - The Correlation of Diabetic Status, Ischemic and Atrophic Burdens on Brain MRI and Cognitive Decline in Seventh Decade Diabetic Patients with Cognitive Impairment. -1 Year Prospective, Observational Study

Jay Choel Kwon, MD, PhD., Kyungsoo Lee, MD, Yohan Jung, MD, PhD., Sungrae Cho, MD, PhD. And Nack-cheon Choi, MD, PhD.

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### P19 - Lanabecestat: Central monitoring of rater performance and error characteristics of efficacy assessments in the AMARANTH study

Alette M. Wessels<sup>1</sup>, Lisle R. Kingery<sup>2</sup>, Edward I. Bartolic<sup>2</sup>, Laura E. Nickell<sup>3</sup>, Jamie A. Mullen<sup>3</sup>, John R. Sims<sup>1</sup>

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### P25 - Effects of sex, educational background, and CKD grading on cognitive and functional decline in Japanese ADNI study

Atsushi Iwata, MD<sup>1</sup>, Ryoko Ihara, MD<sup>2</sup>, Kazushi Suzuki, MD<sup>2</sup>, Takeshi Iwatsubo, MD<sup>2</sup>, and the Japanese ADNI<sup>1</sup>

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### P26 - A German version of the "Five Word Test" – Discriminating patients with mild cognitive impairment/mild Alzheimer's disease, healthy controls and patients with depression

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### P27 - Use of Medications on Transcranial Doppler Vasoreactivity in Mild Cognitive Impairment

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Department of Neurology, College of Medicine, The Catholic University of Korea, Seoul, Korea, Department of Neurology, Hallym University Medical Center, Kang Nam Sacred Heart Hospital, Seoul, Korea, Department of Neurology, Bucheon St. Mary's Hospital, College of Medicine, The Catholic University of Korea, Republic of Korea

### P53 - MMSE screening data quality for Alzheimer's disease studies across countries

Jordan Mark Barbone, BA<sup>1</sup>, Todd M. Solomon, PhD<sup>2</sup>, H. Todd Feaster, PsyD<sup>1</sup>, Macarena Garcia-Valdecasas Colell, MSc<sup>3</sup>, & David S. Miller, MD, MA<sup>1</sup>

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### P67 - The presence of identical scoring on the MMSE and ADCS-ADL in Alzheimer's disease clinical trials using enhanced eCOA devices

Todd M. Solomon, Ph.D.<sup>2</sup>, Jordan Mark Barbone, B.A.<sup>1</sup>, Sarah M. Karas, Psy.D<sup>1</sup>, Danielle T. DiGregorio, Psy.D<sup>1</sup>, Michael R. Maddock<sup>1</sup>, MA David M. Miller, MD<sup>1</sup>, H. Todd Feaster, Psy.D<sup>1</sup>

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**P69 - Neuroplasticity-based visual alertness training and improvements in declining executive functions in healthy older adults**Thomas Van Vleet, PhD<sup>1</sup>, Joseph DeGutis, PhD<sup>2,3</sup>, Michelle Voss, PhD<sup>4</sup><sup>1</sup>Research and Development, Posit Science, San Francisco, CA, USA, <sup>2</sup>School of Medicine, Harvard University, Boston, MA, USA, <sup>3</sup>Boston VA, Boston, MA, USA, <sup>4</sup>Psychology Department, University of Iowa, Iowa City, IA, USA**P71 - The treatment response of Goal Attainment Scaling in relation to goal number in a clinical trial of Alzheimer's Disease Patients**Kenneth Rockwood, MD<sup>1,2</sup>, Lisa McGarrigle, PhD<sup>1,2</sup><sup>1</sup>Division of Geriatric Medicine, Dalhousie University, Halifax, NS, Canada, <sup>2</sup>DGI Clinical Inc., Halifax, NS, Canada**P74 - Predictive value and test-retest reliability of the tablet-based Brief Assessment of Cognition (BAC App) for assessment of cognition in aging: preliminary findings from an ongoing normative study**Anzalee Khan PhD<sup>1,2</sup>, Danny Ulshen BA<sup>1</sup>, Alexandra Atkins PhD<sup>1</sup>, Danela Balentin BA<sup>1</sup>, Adam Vaughan PhD<sup>1</sup>, Heather Dickerson PhD<sup>1</sup>, Brenda L. Plassman PhD<sup>3</sup>, Kathleen A. Welsh-Bohmer PhD<sup>3</sup>, Rich Keefe PhD<sup>1,3</sup><sup>1</sup>NeuroCog Trials, Durham, NC, USA, <sup>2</sup>Nathan S. Kline Institute for Psychiatric Research, Orangeburg, NY, USA, <sup>3</sup>Duke University, Durham, NC, USA**P77 - Clinical and Amyloid Screen Failure Rates in Episodic Memory Measures of Early AD Trials**Selam Negash<sup>1</sup>, Christopher Weber<sup>1</sup>, Christopher Randolph<sup>1,2</sup><sup>1</sup>MedAvante-ProPhase, <sup>2</sup>Loyola University Medical Center**P83 - Determinants of care refusal: from patients suffering from dementia to their caregivers characteristics'**

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Memory Center, Bagatelle Hospital, Talence, France

**P140 - Item bias in the measurement of functional impairment: a cross-cultural comparability study in eight international cognitive aging studies**Sietske A. M. Sikkes, PhD<sup>1,2</sup>, Mark A. Dubbelman, MSc<sup>1</sup>, Merike Verrijp, MSc<sup>1</sup>, Gonzalo Sánchez Benavides, PhD<sup>3</sup>, David Facal, PhD<sup>5</sup>, Bruno Dubois, MD, PhD<sup>4</sup>, Wiesje M. van der Flier, PhD<sup>1,2</sup>, Hanna Jokinen, PhD<sup>6</sup>, Cristina Lojo-Seoane<sup>5</sup>, José Luis Molinuevo, MD, PhD<sup>3</sup>, Arturo X. Pereiro Rozas, PhD<sup>5</sup>, Craig Ritchie, MD, PhD<sup>7</sup>, Magdalini Tsolaki, MD, PhD<sup>8,9</sup>, Ya-Huei Wu, PhD<sup>10</sup>, Stelios Zygouris, MSc<sup>8,11</sup>, Stephane Epelbaum, MD, PhD<sup>4</sup>, Philip Scheltens, MD, PhD<sup>1</sup><sup>1</sup>Alzheimer Center, Department of Neurology, VU University Medical Center, Amsterdam Neuroscience, Amsterdam, the Netherlands, <sup>2</sup>Department of Epidemiology and Biostatistics, VU University Medical Center, Amsterdam, the Netherlands, <sup>3</sup>BarcelonaBeta Brain Research Center, Fundació Pasqual Maragall, Barcelona, Spain, <sup>4</sup>Hôpital Pitié-Salpêtrière, IM2A, PARIS, France, <sup>5</sup>Department of Developmental Psychology, University of Santiago de Compostela, Spain, <sup>6</sup>Clinical Neurosciences, Neurology, University of Helsinki and Helsinki University Hospital, Finland, <sup>7</sup>University of Edinburgh, United Kingdom, <sup>8</sup>1st Department of Neurology, Aristotle University of Thessaloniki, Greece, <sup>9</sup>Greek Association of Alzheimer's Disease and Related Disorders, Greece, <sup>10</sup>Broca Hospital, Paris, France <sup>11</sup>Network Aging Research, University of Heidelberg, Germany**P141 - Clinical Effects of Oral Tramiprosate in APOE4/4 Homozygotes with Mild Alzheimer's Disease (AD): Responder Analyses of Cognitive and Functional Outcomes**Susan Abushakra MD<sup>\*1</sup>, Bruno Vellas MD<sup>2</sup>, Serge Gauthier MD<sup>3</sup>, Anton Porsteinsson MD<sup>4</sup>, Carl Sadowsky MD<sup>5</sup>, Aidan Power MD<sup>1</sup>, Larry Shen PhD<sup>6</sup>, Lu Wang MS<sup>6</sup>, Tim Lin MS<sup>6</sup>, John Hey PhD<sup>1</sup>, Martin Tolar MD PhD<sup>1</sup><sup>1</sup>\*Alzheon, Inc., Framingham, MA, USA, <sup>2</sup>University of Toulouse, Toulouse, France, <sup>3</sup>McGill University, Montreal, Canada, <sup>4</sup>University of Rochester, Rochester, New York, <sup>5</sup>Palm Beach Neurology and Nova SE University, Fort Lauderdale, Florida, <sup>6</sup>Pharmapace, Inc., San Diego, CA**P142 - Exploring Genetic Associations of Alzheimer's Disease Loci with Mild Cognitive Impairment Neurocognitive Endophenotypes. Impact on cognitive and functional endpoints**Ana Espinosa, PhD<sup>1</sup>, Begoña Hernández-Olasagarre, PhD<sup>1</sup>, Sonia Moreno-Grau, MSc<sup>1</sup>, Luca Kleineidam, MSc<sup>2,3,4</sup>, Stefanie Heilmann, PhD<sup>5,6</sup>, Isabel Hernández, MD, PhD<sup>1</sup>, Steffen Wolfgruber, Dipl.-Psych<sup>7,8</sup>, Holger Wagner, MSc<sup>7</sup>, Maitée Rosende-Roca, MD<sup>1</sup>, Ana Mauleón, MD<sup>1</sup>, Lilita Vargas, MD<sup>1</sup>, Asunción Lafuente, MD<sup>1</sup>, Octavio Rodríguez-Gómez, MD<sup>1</sup>, Carla Abdelnour, MD<sup>1</sup>, Silvia Gil, MD, PhD<sup>1</sup>, Marta Marquié, MD, PhD<sup>1</sup>, Miguel A. Santos-Santos, MD, PhD<sup>1</sup>, Ángela Sanabria, PhD<sup>1</sup>, Gemma Ortega, PhD<sup>1</sup>, Gemma Monté, PhD<sup>1</sup>, Alba Pérez, MSc<sup>1</sup>, Marta Ibarria, MSc<sup>1</sup>, Susana Ruiz, MSc<sup>1</sup>, Johannes Kornhuber, MD, PhD<sup>9</sup>, Oliver Peters, MD<sup>9</sup>, Lutz Frölich, MD, PhD<sup>10</sup>, Michael Hüll, MD<sup>11</sup>, Jens Wiltfang, MD<sup>12</sup>, Martin Scherer, MD<sup>13</sup>, Tobias Luch, Dipl.-Psych<sup>14</sup>, Steffi Riedel-Heller, MD<sup>14</sup>, Laura Montreal, MSc<sup>1</sup>, Pilar Cañabate, PhD<sup>1</sup>, Mariola Moreno, MSc<sup>1</sup>, Silvia Preckler, MSc<sup>1</sup>, Nuria Aguilera, MSc<sup>1</sup>, Itziar de Rojas, MSc<sup>1</sup>, Adela Orellana, PhD<sup>1</sup>, Montserrat Alegret, PhD<sup>1</sup>, Sergi Valero, PhD<sup>1</sup>, Markus M Nöthen, MD<sup>2,3</sup>, Michael Wagner, PhD<sup>4,5</sup>, Frank Jessen, PhD<sup>4,5,7</sup>, Wolfgang Maier, MD<sup>4,5</sup>, Lluís Tàrraga, MSc<sup>1</sup>, Mercè Boada, MD, PhD<sup>1</sup>, Alfredo Ramirez, MD, PhD<sup>2,3,4,5</sup> and Agustín Ruiz, MD, PhD<sup>1\*</sup><sup>1</sup>Research Center and Memory Clinic. 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**P143 - Baseline characterization of the European prevention of Alzheimer's dementia (EPAD) longitudinal cohort study (LCS)**

Michael T. Ropacki, PhD<sup>1</sup>, John Harrison, PhD<sup>2,3</sup>, Joel Kramer, PsyD<sup>3</sup>, Christopher Randolph, PhD<sup>4</sup>, Jeffrey Kaye, MD<sup>5</sup>, Bruce Albala, PhD<sup>6</sup>, Karen Ritchie, PhD<sup>7,8,9</sup>

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**P144 - Two distinct modelling approaches of cognitive decline and time to diagnosis of MCI/dementia to inform study design and to improve risk prediction in preclinical Alzheimer's Disease**

Angelika Caputo, PhD<sup>1</sup>, Ana Graf, MD<sup>1</sup>, Cristina Lopez Lopez, PhD, MD<sup>1</sup>, Valery Risson, PhD<sup>1</sup>, Giulia Lestini, PhD<sup>1</sup>, Neva Coello, PhD<sup>1</sup>, Amy Racine, PhD<sup>1</sup>, Ines Paule, PhD<sup>1</sup>, Luyuan Qi, PhD<sup>2</sup>, Helene Karcher, PhD<sup>3</sup>

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**P146 - Comparison of sleep measurements from actigraphy to self-reported sleep diaries**

Kirsi Kinnunen PhD<sup>1</sup>, Richard Joules, PhD<sup>1</sup>, Janet Munro, MPhil<sup>1</sup>, Iain Simpson PhD<sup>1</sup>, Robin Wolz, PhD<sup>1,2</sup>, Yves Dauvilliers, MD PhD<sup>3</sup>

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**P147 - Using DCTclock's clinically-interpretable artificial intelligence for differentiating cognitively healthy subjects from amnesic Mild Cognitive Impairment and probable Alzheimer's Disease**

William Souillard-Mandar<sup>1</sup>, Braydon Schaible<sup>1</sup>, Randall Davis PhD<sup>1,2</sup>, Rhoda Au PhD<sup>3</sup>, Dana Penney PhD<sup>1,4</sup>

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**P148 - Advancing Clinical and Biomarker Research in AD: The LEAD Study**

Liana G. Apostolova, MD, Paul Aisen, MD, Ani Eloyan, PhD, Anne Fagan, PhD, Tatiana Foroud, PhD, Constantine Gatsonis, PhD, Clifford Jack, MD, Joel Kramer, PsyD, Robert Koeppe, PhD, Andrew Saykin, PsyD, Arthur Toga, PhD, Prashanthi Vemuri, PhD, Gregory Day, MD, MSc, Neill Graff-Radford, MD, Lawrence Honig, MD, David Jones, MD, Sterling Johnson, PhD, Joseph Masdeau, MD, Mario Mendez, MD, Chiadi Onyike, MD, Emily Rogalski, PhD, Steve Salloway, MD, David Wolz, MD, Thomas Wingo, MD, Maria Carrillo, PhD, Brad Dickerson, MD, Gil Rabinovici, MD

**P149 - Measuring Pre-Clinical Cognitive Decline over Time: Separating and Combining Alzheimer's Specific Decline and Cognitive Decline Related to Aging in Cognitive Composite Scores**

Suzanne Hendrix, PhD<sup>1</sup>, Noel Ellison, MS<sup>1</sup>, Jessica B. Langbaum, PhD<sup>2</sup>, Kewei Chen, PhD<sup>3</sup> and David A. Bennett, MD<sup>4</sup>

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## Late Breaking Posters

**LBP41 - Effects of 2-year walnut supplementation on cognitive decline in healthy elders: The Walnuts And Healthy Aging (WAHA) study**

Nina Coll-Padrós<sup>1</sup>, Aleix Sala-Vila<sup>2,3</sup>, Cinta Valls-Pedret<sup>2</sup>, Mercè Serra-Mir<sup>2,3</sup>, Montserrat Cofán<sup>2,3</sup>, Irene Roth<sup>2</sup>, Tania Freitas-Simoes<sup>2</sup>, Mónica Doménech<sup>2</sup>, Lúcia Vaqué-Alcázar<sup>4</sup>, David Bartrés-Faz<sup>4</sup>, Sujatha Rajaram<sup>5</sup>, Joan Sabaté<sup>5</sup>, Emilio Ros<sup>2,3</sup>

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**LBP42 - ADCOMS: a post-hoc analysis using data from the LipiDiDiet trial in prodromal Alzheimer's disease**

Suzanne B. Hendrix, PhD<sup>1</sup>, Hilkkä Soininen, MD, PhD<sup>2,3</sup>, Pieter Jelle Visser, PhD<sup>4,5</sup>, Alina Solomon, MD, PhD<sup>2,6,7</sup>, Miia Kivipelto, MD, PhD<sup>2,6,7</sup>, Tobias Hartmann, PhD<sup>8,9</sup> on behalf of the LipiDiDiet clinical study group

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### **LBP43 - Intraventricular Injection of Human Umbilical Cord Blood Mesenchymal Stem Cells in Patients with Alzheimer's Disease Dementia: A Phase I Clinical Trial**

Hee Jin Kim, MD, PhD<sup>1,2</sup>, Kyung Rae Cho, MD<sup>2,3</sup>, Hyemin Jang, MD, PhD<sup>1,2</sup>, Jung Il Lee, MD, PhD<sup>2,3</sup>, Seongbeom Park, MS<sup>1,2</sup>, Soo Jin Choi<sup>4</sup>, Sung Tae Kim, MD, PhD<sup>5</sup>, Seung Hwan Moon, MD, PhD<sup>6</sup>, Kyung-Han Lee, MD, PhD<sup>6</sup>, Sang Won Seo, MD, PhD<sup>1,2,7</sup>, Duk L. Na, MD, PhD<sup>1,2,8</sup>

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### **LBP44 - Exploratory analysis of results from the NILVAD trial suggest benefit in very mild AD subjects**

Michael Mullan, MBBS, PhD<sup>1,2</sup>, Laila Abdullah, PhD<sup>2</sup>, Heather Langlois<sup>2</sup>, Fiona Crawford, PhD<sup>1,2</sup>, Anders Wallin, MD<sup>3</sup>, Suzanne Hendrix, PhD<sup>4</sup>, Kaj Blennow, MD, PhD<sup>5</sup>, Brian Lawlor, MBBS<sup>6</sup>. The NILVAD consortium

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### **LBP45 - Can digital footprints capture clinically relevant gait endpoints in non-clinically setting: a Proof of Concept?**

Marie Mc Carthy<sup>1</sup>, Crystal Gon<sup>2</sup>

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### **LBP46 - Using the power of Dementias Platform UK (DPUK) cohorts to investigate the longitudinal effects of childhood adversity on adult cognition and health outcomes: implications for cognitive change and dementia outcomes**

Sarah Bauermeister, PhD and John Gallacher, PhD

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## Theme 6. Cognitive assessment and clinical trials

### P6 - Evaluation of titers of antibodies against peptides of subunits NR1 and NR2B of glutamate receptor by enzyme-linked immunosorbent assay in psychiatric patients with anti-thyroid antibodies

Takahiro Ikura, MD, PhD, Yokohamacity University Psychiatry

### P14 - Anosognosia in Mild Cognitive Impairment and Dementia

Dong Won Yang<sup>1</sup>, Ahro Kim<sup>1</sup>, Dong Woo Lee<sup>2</sup>, Hyun Jeong Han<sup>3</sup>, Jee Hyang Jeong<sup>4</sup>, Jun Hong Lee<sup>5</sup>, Jun-Young Lee<sup>6</sup>, Kee Hyung Park<sup>7</sup>, Kyung Won Park<sup>8</sup>, SangYun Kim<sup>9</sup>, Seong Hye Choi<sup>10</sup>, Young Chul Youn<sup>11</sup>

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### P24 - Clinical correlates of types of memory complaints in mild cognitive impairment

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### P29 - A comparison between brief episodic memory and semantic memory tasks within a screening test for mild cognitive impairment

Pamela Voccia EdS<sup>1</sup>, Katherine Kruczek, MS<sup>1</sup>

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### P33 - Comparative evaluation of tests for the cognitive dysfunction screening in the national medical check-up

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### P34 - A multicentre, pilot study to evaluate an Augmented Reality test (ALTOIDATM) for mild cognitive impairment detection

Mircea Balasa, MD, PhD<sup>1,2</sup>, Adrià Tort-Merino, MSc<sup>1</sup>, Ioannis Tarnanas, PhD<sup>2,3</sup>, David Bartrés-Faz, PhD<sup>4</sup>, Rory Boyle, MSc<sup>5</sup>, Laura Rai MSc<sup>5</sup>, Rob Whelan, PhD<sup>2,5</sup>, Raquel Sanchez-Valle, MD, PhD<sup>1</sup>

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### P41 - Cognitive impairment under treatment with 2nd and 3rd generation antihistamines in elderly subjects

Georg Adler, Nadja Baumgart

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### P42 - Using Bayesian methods to model normative CANTAB cognition data across adulthood

Pasquale Dente<sup>1</sup>, Elizabeth Baker<sup>1</sup>, Jack Cotter<sup>1</sup>, Francesca Cormack<sup>1</sup>, Jennifer H Barnett<sup>1,2</sup>

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### P47 - Predicting the course of Alzheimer's

Samuel Iddi, PhD<sup>1,3</sup>, Dan Li, PhD<sup>1</sup>, Wesley K Thompson, PhD<sup>2</sup>, Michael S. Rafii, MD, PhD<sup>1</sup>, Paul S. Aisen, MD<sup>1</sup>, and Michael C Donohue, PhD<sup>1</sup>

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### P48 - Impaired delayed recall on the International Shopping List Task predicts amyloid positivity and longitudinal decline in CDR-SB scores in MCI

Sharon Rosenzweig-Lipson, PhD<sup>1</sup>, Richard Mohs, PhD<sup>1</sup>, Paul Maruff, PhD<sup>2</sup>, Michela Gallagher, PhD<sup>1,3</sup> and Arnold Bakker, PhD<sup>3</sup>

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### P49 - MMSE screening data quality for Alzheimer's disease studies across countries

Jordan Mark Barbone, BA<sup>1</sup>, Todd M. Solomon, PhD<sup>1</sup>, H. Todd Feaster, PsyD<sup>1</sup>, Macarena Garcia-Valdecasas Colell, MSc<sup>3</sup>, David S. Miller, MD, MA<sup>1</sup>

<sup>1</sup>Bracket, Wayne, PA, USA, <sup>2</sup>Boston University School of Medicine, Boston, MA, USA, <sup>3</sup>Bracket, Reading, UK

### **P50 - Affective variability predicts cognitive fluctuation and decline in older adults**

Edward Zamrini, MD<sup>1</sup>, Michael Malek-Ahmadi, PhD<sup>2</sup>, Kathy O'Connor<sup>1</sup>, Sharon Schofield<sup>1</sup>

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### **P51 - Validation of the geriatric depression scale in the elderly Korean with Alzheimer's disease**

Moon Ho PARK, MD, PhD, Do-Young KWON, MD, PhD

Department of Neurology, Korea University Ansan Hospital, Ansan, South Korea

### **P52 - Can TMT-black and white predict the white matter hyperintensity of MRI in the community based elderly?**

Young Chul Youn, MD, PhD

Neurology Department, Chung-Ang University College of Medicine, Seoul, Korea

### **P55 - CANTAB tests predict change in global functioning in patients with amnesic mild cognitive impairment**

Elizabeth Baker PhD<sup>1</sup>, Peter Annas PhD<sup>1</sup>, Giovanni B. Frisoni, MD, PhD<sup>2,19</sup>, David Bartres-Faz, MD, PhD<sup>3</sup>, Beatriz Bosch PhD<sup>3</sup>, José Luis Molinuevo, MD, PhD<sup>3</sup>, Mira Didic, MD, PhD<sup>4,5</sup>, Francesca De Anna<sup>4,5</sup>, Lucilla Parnetti, MD, PhD<sup>6</sup>, Nicola Salvadori PhD<sup>6</sup>, Jens Wiltfang, MD, PhD<sup>7,15</sup>, Flavio Nobili, MD, PhD<sup>8</sup>, Nicola Girtner, Psy.D<sup>8</sup>, Peter Schönknecht, MD, PhD<sup>9</sup>, Pieter J. Visser, MD, PhD<sup>10</sup>, Paolo M. Rossini, MD, PhD<sup>11</sup>, Paola Chiovenda, MA<sup>11</sup>, Pierre Payoux, MD, PhD<sup>12</sup>, Andrea Soricelli, MD, PhD<sup>13</sup>, Marco Salvatore, PhD<sup>13</sup>, Magda Tsolaki, MD, PhD<sup>14</sup>, Jill C. Richardson, PhD<sup>16</sup>, Régis Bordet, MD, PhD<sup>17</sup>, Olivier Blin, MD, PhD<sup>18</sup>, Gianluigi Forloni<sup>20</sup> on behalf of the PharmaCog Consortium

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### **P63 - Validating simulated cognition trajectories based on ADNI against trajectories from the National Alzheimer's Coordinating Center (NACC) dataset**

Ali Tafazzoli, PhD<sup>1</sup>, Josh Weng, PhD<sup>2</sup>, Kelly Sutton, PhD<sup>3</sup>, Michal Litkiewicz, MSc<sup>3</sup>, Ameya Chavan, BS<sup>1</sup>, Mira Krotneva, MSc<sup>4</sup>, Anuraag Kansal, PhD<sup>1</sup>

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### **P68 - Recruitment using the DCTclockTM**

Daniel Lawler MD<sup>1</sup>, Stephen Thein PhD<sup>1</sup>

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### **P70 - Strategy or symptom: semantic clustering and risk of Alzheimer's disease**

Jamie Ford, MSc<sup>1</sup>, Bang Zheng, MSc, MD<sup>1</sup>, Barbara Hurtado, M.A, CPsychol<sup>1</sup>, Chi Udeh-Momoh, MSc, PhD<sup>1</sup>, Geraint Price, MSc, D Clin Psy<sup>1</sup>

<sup>1</sup>Imperial College London, UK

### **P72 - Tau is associated with longitudinal memory decline in healthy subjects: the need for an early detection of subtle cognitive changes**

Adrià Tort-Merino, MSc<sup>1</sup>, Jaume Olives, MSc<sup>1</sup>, María León, MSc<sup>1</sup>, Claudia Peñalosa, PhD<sup>2</sup>, Natalia Valech, MSc<sup>1</sup>, Petra Grönholm-Nyman, PhD<sup>3</sup>, Pablo Martínez-Lage, MD, PhD<sup>4</sup>, Juan Fortea, MD, PhD<sup>5,6</sup>, José Luis Molinuevo, MD, PhD<sup>1,7</sup>, Raquel Sánchez-Valle, MD, PhD<sup>1,8</sup>, Matti Laine, PhD<sup>3</sup>, Antoni Rodríguez-Fornells, PhD<sup>2,9,10</sup>, Lorena Rami, PhD<sup>1,8</sup>

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### **P75 - Flunks and flukes: recognising unrepresentative performance on cognitive tests**

Geraint Price, D Clin Psy<sup>1</sup>, Bowen Su, MD<sup>1</sup>

<sup>1</sup>Imperial College London, UK



**P87 - Assessing decline in visuospatial working memory associated with subjective cognitive impairment using a tablet-based measure of hippocampal-dependent learning**Alexandra S. Atkins<sup>1</sup>, Anzalee Khan<sup>1,2</sup>, Daniel Ulshen<sup>1</sup>, John Harrison<sup>3,4</sup>, Brenda L. Plassman<sup>5</sup>, Kathleen A. Welsh-Bohmer<sup>5</sup> & Richard S.E. Keefe<sup>1,6</sup><sup>1</sup>NeuroCog Trials, Durham, NC, <sup>2</sup>Nathan S. Kline Institute for Psychiatric Research, Orangeburg, NY, <sup>3</sup>Alzheimer Center, VUmc, Amsterdam, The Netherlands, <sup>4</sup>oPPN, King's College, London, UK, <sup>5</sup>Duke University Bryan ADRC, Durham, NC, <sup>6</sup>Duke University Medical Center, Durham, NC, <sup>7</sup>Duke University Medical Center, Durham, NC**P88 - Severe cognitive impairment in older adult heart failure patients: Preliminary findings from the Deus ex Machina study**Emília Moreira, Psy, MPH, PhD<sup>1</sup>, Sónia Martins, Psy, PhD<sup>1,2</sup>, Luís Filipe Azevedo, MD, PHD<sup>1,3</sup>, José SilvaCardoso, MD, PhD<sup>1,4,5</sup>, Lia Fernandes, MD, PhD<sup>1,2,6</sup><sup>1</sup>Center for Health Technology and Services Research/CINTESIS, Faculty of Medicine, University of Porto, Portugal, <sup>2</sup>Department of Clinical Neurosciences and Mental Health, Faculty of Medicine, University of Porto, Portugal, <sup>3</sup>Department of Community Medicine, Information and Health Decision Sciences/MEDCIDS, Faculty of Medicine, University of Porto, Portugal, <sup>4</sup>Department of Medicine, Faculty of Medicine, University of Porto, Portugal, <sup>5</sup>Department of Cardiology, S. João Hospital Center, Porto, Portugal, <sup>6</sup>Clinic of Psychiatry and Mental Health, S. João Hospital Center, Porto, Portugal**P89 - The effect of dizziness in patients with cognitive impairments**

Seunghee Na, MD, In-Uk Song, MD, PhD

Department of Neurology, Incheon St. Mary's Hospital, the Catholic University of Korea, Incheon, Korea

**P151 - Selection of depression-specific dementia cases with replication in two cohorts**Donald R. Royall, MD<sup>1,4</sup>, Raymond F. Palmer, PhD<sup>3</sup><sup>1</sup>Department of Psychiatry, The University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, Texas, USA, <sup>2</sup>Department of Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>3</sup>Department of Family & Community Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>4</sup>South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC), San Antonio, Texas, USA**P152 - Selection of depression-specific dementia cases with replication in two cohorts**Donald R. Royall, MD<sup>1,4</sup>, Raymond F. Palmer, PhD<sup>3</sup><sup>1</sup>Department of Psychiatry, The University of Texas Health Science Center at San Antonio (UTHSCSA), San Antonio, Texas, USA, <sup>2</sup>Department of Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>3</sup>Department of Family & Community Medicine, UTHSCSA, San Antonio, Texas, USA, <sup>4</sup>South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC), San Antonio, Texas, USA**P153 - Assessment and speech-language intervention program in Non-Fluent Primary Progressive Aphasia: A case study**Beatriz Valles-González<sup>1</sup> & Vicent Rosell-Clari<sup>1,2</sup><sup>1</sup>Speech and Language Pathology Clinic. Lluís Alcanyis Foundation-Universitat de Valencia, <sup>2</sup>Basic Psychology Department, Universitat de Valencia**P154 - Prediction of APOE ε4 Burden from Cognitive Assessment**Royall DR<sup>1,4</sup>, Palmer RF<sup>3</sup> for the Alzheimer's Disease Neuroimaging Initiative\*<sup>1</sup>Departments of Psychiatry, <sup>2</sup>Medicine, Family & <sup>3</sup>Community Medicine, The University of Texas Health Science Center at San Antonio and the <sup>4</sup>South Texas Veterans Health Administration Geriatric Research Education and Clinical Center (GRECC)**P155 - Could Telemedicine improve neurocognitive disorders detection and diagnosis in nursing home?**Armelle Leperre-Desplanques<sup>1</sup>, Isabelle Hauger<sup>2</sup>, Sylvain Gaulier<sup>1</sup>, Antonis Politis<sup>3</sup>, Shima Mehrabian<sup>4</sup>, Audrey Maillat<sup>1</sup>, Pierre Krolak-Salmon<sup>1</sup><sup>1</sup>Clinical and Research Memory Centre, Lyon Institute for Elderly, Hospices Civils de Lyon, Inserm UMRI028, CNRS UMR 5292, Lyon University, France, <sup>2</sup>Résidence Talanssa, Talence, France, <sup>3</sup>National and Kapodistrian University of Athens, Athens, Greece, <sup>4</sup>Clinic of Neurology, UH "Alexandrovskia", Medical University, Sofia, Bulgaria**P156 - Cognitive Blackouts in Mild Cognitive Impairment of the Amnesic Type and mild Alzheimer's Dementia**

Georg Adler, Agnies Marczak, Jana Binder, Katharina Gnosa

Institut für Studien zur Psychischen Gesundheit, Mannheim, Germany

**P157 - Feasibility of the neuropsychological battery camcomg-ds for the detection of cognitive decline in people with down syndrome**Laura Videla<sup>1,2,3</sup>, Bessy Benejam<sup>1</sup>, María Carmona-Iragui<sup>1,2,3</sup>, Susana Fernández<sup>1</sup>, Isabel Barroeta<sup>1,2,3</sup>, Sebastián Videla<sup>2</sup>, Alberto Lleó<sup>2,3</sup>, Rafael Blesa<sup>2,3</sup>, Juan Fortea<sup>1,2,3</sup><sup>1</sup>Alzheimer Unit - Down, Down Medical Center, Fundació Catalana Síndrome de Down, <sup>2</sup>Memory Unit of the Neurology Service of the Hospital de la Santa Creu and Sant Pau, Biomedical Research Institute of Sant Pau, Universitat Autònoma de Barcelona, <sup>3</sup>Central Biomedical Research Center (CIBERNED)**P158 - Distinct patterns of cognitive decline between early-onset Alzheimer's disease and late-onset Alzheimer's disease**Adrià Tort Merino, MSc<sup>1</sup>, Jaume Olives, MSc<sup>1</sup>, Neus Falgàs, MD<sup>1</sup>, Mircea Balasa, PhD<sup>1</sup>, Magda Castellví, MSc<sup>1</sup>, Sergi Borrego, MD<sup>1</sup>, Beatriz Bosch, PhD<sup>1</sup>, María León, MSc<sup>1</sup>, Ana Salinero, MSc<sup>1</sup>, Guadalupe Fernández, RN<sup>1</sup>, Anna Antonell, PhD<sup>1</sup>, Raquel Sánchez-Valle, MD, PhD<sup>1</sup>, Lorena Ramí, PhD<sup>1</sup>, Albert Lladó, MD, PhD<sup>1</sup><sup>1</sup>Alzheimer's Disease and other Cognitive Disorders Unit, Neurology Service, Hospital Clinic, Barcelona, Spain

**PI159 - High level of plasmatic amyloid A $\beta$  1-40 increase the risk of cognitive decline in 3C study with 14 years of follow-up**

Audrey Gabelle, MD, Ph.D.<sup>1,2,3</sup>, Laure-Anne Gutierrez, MSc<sup>2,3</sup>, Thibault Mura M.D, Ph.D.<sup>2,3</sup>, Jean-François Dartigues, Ph.D.<sup>4,5</sup>, Olivier Rouaud, MD<sup>6</sup>, Jean-Charles Lambert Ph.D.<sup>7,8,9,10</sup>, Catherine Helmer, Ph.D.<sup>4,5</sup>, Claudine Berr M.D, Ph.D.<sup>2,3</sup>

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**PI162 - Using graphical hierarchical bayesian cognitive process models applied to common memory tests to detect ad pathology within normal subjects**

William R. Shankle, MS, MD<sup>1,2,3</sup>, Junko Hara, PhD<sup>1,3</sup>, Jason R. Bock, MA<sup>1</sup>, Dennis Fortier, MBA<sup>1</sup>, Tushar Mangrola, MS<sup>1</sup>, Michael Lee, PhD<sup>2</sup>, Gregory E. Alexander, PhD<sup>2</sup>, William H. Batchelder, PhD<sup>2</sup>, Ronald C. Petersen, MD, PhD<sup>4</sup>, Walter Kremers, PhD<sup>4</sup>

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## Late Breaking Posters

**LBP47 - Strategic Memory Alzheimers Rehabilitation Training (SMART) Memory Program for Amnesic Mild Cognitive Impairment (aMCI): Reporting the Results of a Randomized Clinical Trial**

John W. DenBoer, Ph.D., SMART Brain Aging, Inc

**LBP48 - Memory errors of commission rather than errors of omission discern aging and early Alzheimer's disease**

Matthias W. Riepe, MD, Claudia Lanza, PhD, Karolina Sejunaite, MS

Department of Psychiatry and Psychotherapy II, Mental Health & Old Age Psychiatry, Ulm University, Ulm, Germany

**LBP49 - Standard cognitive assessment in the era of biomarkers and disease-modifiers**

Marina Boccardi, PsyD, PhD<sup>1,2</sup>, Stefano Cappa, MD, PhD<sup>2</sup>, Bruno Dubois, MD<sup>3</sup>, Jean Georges<sup>4</sup>, Matthias Kliegel, PsyD, PhD<sup>5</sup>, Bengt Winblad, MD, PhD<sup>6</sup>, David Salmon, PhD<sup>7</sup>, Giovanni Frisoni, MD<sup>1,2</sup>, Andreas Monsch, PsyD, PhD<sup>8</sup>, for the Task Force for Harmonizing Neuropsychological Assessment for Dementing Neurodegenerative Disorders

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**LBP50 - Lanabecestat: Rater performance and error characteristics of efficacy assessments in the DAYBREAK-ALZ study**

Alette M. Wessels, PhD<sup>1</sup>, Jordan Mark Barbone, BA<sup>2</sup>, Danielle T. DiGregorio, PsyD<sup>2</sup>, David S. Miller, MD, MA<sup>2</sup>, Jamie A. Mullen, MD<sup>3</sup>, & John R. Sims, MD<sup>1</sup>

<sup>1</sup>Eli Lilly and Company, Indianapolis, IN, USA, <sup>2</sup>Bracket, Wayne, PA, USA, <sup>3</sup>AstraZeneca Pharmaceuticals, Cambridge, MA, USA

**LBP51 - iPSC model of CHR7A effect on a7 nicotinic acetylcholine receptor function may explain the translational gap in drug development**

Ivanna Ihnatovych<sup>1</sup>, Tapan Nayak<sup>1</sup>, Aya Ouf<sup>1</sup>, Norbert Sule<sup>2</sup>, Barbara Birkaya<sup>1</sup>, Lee Chaves<sup>1</sup>, Anthony Auerbach<sup>1</sup>

<sup>1</sup>SUNY at Buffalo, <sup>2</sup>Roswell Park Cancer Institute

**LBP52 - Effects of Age and CSF measures of Tau on Mnemonic Discrimination of Objects and Scenes in Medial Temporal Lobe Pathways**

David Berron, PhD<sup>1,2,3</sup>, Arturo Cardenas-Blanco, PhD<sup>4</sup>, Daniel Bittner, MD<sup>2</sup>, Coraline D. Metzger, MD, PhD<sup>5</sup>, Annika Spottke, MD<sup>6,7</sup>, Michael Heneka, MD<sup>7,8</sup>, Klaus Fließbach, MD<sup>9,10</sup>, Anja Schneider, MD<sup>7,8</sup>, Stefan J. Teipel, PhD, MD<sup>11,12</sup>, Michael Wagner, PhD<sup>13</sup>, Oliver Speck, Prof. Dr.<sup>14</sup>, Frank Jessen, MD, Prof.<sup>7,15</sup>, Emrah Düzel, MD<sup>4,5</sup> and the DELCODE study group

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## Theme 7. Behavioral disorders and clinical trials

### **P32 - Effect of memantine on behavioral and psychological symptoms of dementia (BPSD) of Alzheimer's disease - Study of changes in cerebral blood flow by spect imagingAims**

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### **P37 - Clusterization of behavioral and psychological symptoms of dementia (BPSD)**

Timofey L. Galankin, MD, PhD<sup>2</sup>, Anton Y. Bepalov, MD, PhD<sup>1,2</sup>, Hans J. Moebius, MD, PhD<sup>1</sup>

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### **P43 - The effect of dizziness in patients with cognitive impairments**

Seunghye Na, MD, In-Uk Song, MD, PhD

Department of Neurology, Incheon St. Mary's Hospital, the Catholic University of Korea, Incheon, Korea

### **P163 - A multicenter, randomized trial to assess efficacy of Therapeutic Intervention Program for Dementia Caregivers (I-CARE)**

Jihye Hwang, MD, PhD<sup>2</sup>, Geon-Ha Kim, MD, PhD<sup>3</sup>, Hae-Ri Na, MD, PhD<sup>4</sup>, Soo-Jin Cho, MD, PhD<sup>5</sup>, Kyung-Ho Yu, MD, PhD<sup>6</sup>, Do Hoon Kim, MD, PhD<sup>7</sup>, Jae-Hong Lee, MD, PhD<sup>8</sup>, Seong-Hye Choi, MD, PhD<sup>9</sup>

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## Late Breaking Posters

### **LBP53 - Prevalence of obstructive sleep apnea in Alzheimer's disease patients**

Anna Carnes, PhD<sup>1</sup>, Carme Jorge<sup>1</sup>, MD, Benitez ID<sup>2,3</sup>, Faride Dakterzada<sup>1</sup>, Olga Minguez<sup>2</sup>, Raquel Huerto<sup>1</sup>, Montse Pujol<sup>2</sup>, MD, PhD, Anna Gaeta, MD<sup>2</sup>, Alfonso Arias<sup>1</sup>, MD, Aurora Gibert<sup>1</sup>, Manuel Sanchez de la Torres<sup>2,3</sup>, MD, PhD, Ferran Barbé<sup>2,3</sup>, MD, PhD, Gerard Piñol-Ripoll<sup>1</sup>, MD, PhD

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## Theme 8. Health economics and clinical trials

### P17 - Effect of physical activity on the progression of Alzheimer's disease: the CREDOS study

Seong Hye Choi<sup>1</sup>, Jee Hyang Jeong<sup>2</sup>, Eun-Joo Kim<sup>3</sup>, Kyung Won Park<sup>4</sup>, Bora Yoon<sup>5</sup>, Soo Jin Yoon<sup>6</sup>, Yang-Ki Minn<sup>7</sup>, Young Ju Suh<sup>8</sup>

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### P40 - The Survey for Current State and Dognition of Activities of Daily Living in Korean dementia patients

Kee Hyung Park, MD, PhD<sup>1</sup>, Chan-Nyoung Lee, MD, PhD<sup>2</sup>, Hojin Choi, MD, PhD<sup>3</sup>

<sup>1</sup>Department of Neurology, Gachon University, Gil Medical Center, Incheon, Korea, <sup>2</sup>Department of Neurology, Korea University College of Medicine, Seoul, Korea, <sup>3</sup>Department of Neurology, Hanyang University Guri Hospital, Guri, Korea

### P58 - Young onset diseases care pathways. Parcours des malades Alzheimer et apparentés jeunes - PARMAAJ

Adeline Rollin-Sillaire, MD<sup>1,2</sup>, Brigitte Leprince<sup>3</sup>, Catherine Adnet-Bonte, MD<sup>3</sup>, Laetitia Breuilh, PhD<sup>2</sup>, Florence Pasquier, MD, PhD<sup>1,2</sup>

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### P164 - Dutch online registry for recruitment of participants for dementia studies

Marissa D. Zwan, PhD<sup>1</sup>, Derek Flenniken<sup>2,3</sup>, Shannon Finley, MA<sup>2</sup>, Aaron Ulbricht<sup>2,3</sup>, Rachel Nosheny, PhD<sup>2,3</sup>, Wiesje M. van der Flier, PhD<sup>1</sup>, Philip Scheltens, MD, PhD<sup>1</sup>, Diana Truran-Sacrey<sup>2</sup>, Michael W. Weiner, MD<sup>2,3</sup>, Niels D. Prins, MD, PhD<sup>1</sup>

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## Theme 9. Epidemiology and clinical trials

### P17 - Awareness of Alzheimer's dementia as their own disease in Asian Countries

San Jung, [YongSoo Shim](#), SangYun Kim

Department of Neurology, Hallym University Medical Center, Kang Nam Sacred Heart Hospital, Seoul, Korea, Department of Neurology, College of Medicine, The Catholic University of Korea, Bucheon St. Mary's Hospital, Seoul, Korea, Department of Neurology, Seoul National University College of Medicine & Clinical Neuroscience Center, Seoul National University Bundang Hospital, Seoul, Korea

### P38 - Subjective memory complaints are related to the social participation and leisure activities: TOyoake Integrated Care Study (TOICS)

[Hajime Takechi](#), MD, PhD<sup>1</sup>, Akira Tsuzuki, RPT, DMSc<sup>2</sup>, Komaki Matsumoto, Ms<sup>3</sup>, Hiroyuki Nishiyama, Mr<sup>4</sup>, Masatoshi Ogawa, Mr<sup>3</sup>, Yoshiaki Kanada, RPT, DMSc<sup>2</sup>

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### P46 - Alzheimer's disease drug development pipeline: 2018

[Jeffrey Cummings](#), MD, ScD<sup>1</sup>, Garam Lee, PharmD<sup>1</sup>, Aaron Ritter, MD<sup>1</sup>, Kate Zhong, MD<sup>2</sup>

<sup>1</sup>Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, NV, USA, <sup>2</sup>Global Alzheimer Platform, Washington, D.C., USA

### P165 - Association between amyloid status and multiple chronic diseases in European Prevention of Alzheimer's Dementia (EPAD): network and cluster analyses

[Lucy E Stirling](#), MBChB, MRCPsych<sup>1</sup>, Tom C Russ MBChB, PhD, MRCPsych<sup>1,2</sup>, Graciela Muniz Terrera, PhD<sup>1</sup>, Craig W Ritchie MBChB, PhD, MRCPsych<sup>1</sup>

<sup>1</sup>Centre for Dementia Prevention, University of Edinburgh, Edinburgh, UK, <sup>2</sup>Alzheimer Scotland Dementia Research Centre, Edinburgh, UK

### P166 - Concord-AD: An International Network of Cohorts for Better Understanding Alzheimer's Disease

[Samantha C Burnham](#), PhD<sup>1</sup>, Preciosa M Coloma, MD, PhD<sup>2</sup>, Teresa J. Christainson<sup>3</sup>, BS, Jean-François Dartigues, MD, PhD<sup>4,5</sup>, Rachele Doody, MD, PhD<sup>6</sup>, Oskar Hansson, MD, PhD<sup>7</sup>, Catherine Helmer, MD, PhD<sup>4,8</sup>, Joseph S Kass, MD, JD<sup>9</sup>, Colin L Masters, MD<sup>10</sup>, Sebastian Palmqvist, MD, PhD<sup>7,11</sup>, Valory N Pavlik, PhD<sup>9</sup>, Ronald C. Petersen, MD, PhD<sup>3,12</sup>, Rosebud O. Roberts, MB ChB, MS<sup>3,12</sup>, Maria Vassilaki, MD, MPH, PhD<sup>3</sup>, Barbara Schauble<sup>13</sup> and Mary Sano, Ph.D.<sup>14,15</sup>

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### P167 - Cognitive and brain structural correlates of insomnia symptoms in middle-aged healthy adults

[Oriol Grau-Rivera](#)<sup>1</sup>, Juan Domingo Gispert<sup>1,2</sup>, Grégory Operto<sup>1</sup>, Carles Falcón<sup>1,2</sup>, Raffaele Cacciaglia<sup>1</sup>, Gonzalo Sánchez-Benavides<sup>1</sup>, Anna Bugulat<sup>1</sup>, Nina Gramunt<sup>1,3</sup>, Gemma Salvadó<sup>1</sup>, Marc Suárez-Calvet<sup>1</sup>, Carolina Minguillón<sup>1</sup>, Karine Fauria<sup>1</sup>, José Luis Molinuevo<sup>1,3,4</sup>

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### P168 - A Phase II randomized clinical trial of high-dose versus standard-dose Vitamin D3 in an ethnically diverse sample of older adults

[John Olichney](#), MD<sup>1</sup>, Charlie DeCarli, MD<sup>1</sup>, Joshua W Miller, PhD<sup>2</sup>, David Johnson, PhD<sup>1</sup>, Sarah Tomaszewski-Farias, PhD<sup>1</sup>, Bruce Hammock, PhD<sup>3</sup>, Brittany Dugger, PhD<sup>4</sup>, Lee-Way Jin, MD, PhD<sup>4</sup>, Mary McPhail-Ciufo, DO<sup>1</sup>, Robert Soohoo, BS<sup>5</sup>, Dan Mungas, PhD<sup>1</sup>, Danielle Harvey, PhD<sup>6</sup>

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## Late Breaking Posters

### LBP54 - Psychometric methodologies to increase scale-reliability in dementia-focused epidemiology: Outcomes from the European Prevention of Alzheimer's Disease Study and UK Biobank

[Sarah Bauermeister](#), PhD and John Gallacher, PhD

University of Oxford, Department of Psychiatry, Oxford, UK

### **LBP55 - STOPBANG and Berlin Questionnaire as screening tools to identify obstructive sleep apnea in Alzheimer's disease**

Anna Carnes, PhD<sup>1</sup>, Benítez ID<sup>2,3</sup>, Faride Dakterzada<sup>1</sup>, Olga Minguéz<sup>2</sup>, Raquel Huerto<sup>1</sup>, Montse Pujol<sup>2</sup>, MD, PhD, Anna Gaeta, MD<sup>2</sup>, Alfonso Arias<sup>1</sup>, MD, Aurora Gibert<sup>1</sup>, Manuel Sanchez de la Torres<sup>2,3</sup>, MD, PhD, Ferran Barbé<sup>2,3</sup>, MD, PhD, Gerard Piñol-Ripoll<sup>1</sup>, MD, PhD

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### **LBP56 - Exposure to benzodiazepines and development of Alzheimer's disease: a cohort study in a Health Region of Catalonia between 2002 and 2015**

Carnes A, Torres-Bondia, F<sup>1</sup>, de Batlle J<sup>2</sup>, Piñol-Ripoll, G<sup>1</sup>

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## Theme 10. Animal model and clinical trials

### **P102 - Concussive head injury exacerbates Alzheimer's disease brain pathology. Superior neuroprotection by Co-administration of TiO2 nanowired Cerebrolysin together with antibodies to neuronal nitric oxide synthase and mesenchymal stem cells**

**Hari Shanker Sharma**<sup>1\*</sup>, José V Lafuente<sup>2</sup>, Dafin F Muresanu<sup>3a</sup>, Rudy J Castellani<sup>4</sup>, Mark A Smith<sup>5</sup>, Ala Nozari<sup>6</sup>, Ranjana Patnaik<sup>7</sup>, Z Ryan Tian<sup>8</sup>, Asya Ozkizilcik<sup>9</sup>, Stephen D Skaper<sup>10</sup>, Herbert Mössler<sup>1a</sup>, Aruna Sharma<sup>1</sup>

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### **P103 - Sleep deprivation aggravates Alzheimer's disease brain pathology. Enhanced neuroprotection by nanowired delivery of cerebrolysin with alpha melanocyte stimulating hormone and antibodies to alpha-synuclein**

**Aruna Sharma**<sup>1\*</sup>, José V Lafuente<sup>2</sup>, Dafin F Muresanu<sup>3a</sup>, Rudy J Castellani<sup>4</sup>, Mark A Smith<sup>5</sup>, Ala Nozari<sup>6</sup>, Ranjana Patnaik<sup>7</sup>, Z Ryan Tian<sup>8</sup>, Asya Ozkizilcik<sup>9</sup>, Herbert Mössler<sup>10</sup>, Hari S Sharma<sup>1</sup>

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### **P104 - The effect of crenezumab on beta-amyloid toxicity-induced synapse loss, neurofibrillary tangles and cell death in human neurons in vitro**

**Ben Chih**, PhD, Reina A. Bassil, BS, Shirley Ng, BS, Maureen Beresini, PhD

Genentech, Inc., South San Francisco, CA, US

## Late Breaking Posters

### **LBP58 - Disease modifying therapy by targeting generic protein secondary structure of pathological oligomers at any stages of Alzheimer's Disease models**

**Fernando Goni**, PhD<sup>1</sup>, Krystal Herline, PhD<sup>1</sup>, Mitchell Marta-Ariza, MSc<sup>1</sup>, Frances Prelli, MSc<sup>1</sup> and Thomas Wisniewski, MD<sup>1</sup>

<sup>1</sup>New York University School of Medicine, New York, USA

## Theme 11. New therapies and clinical trials

### P5 - Therapeutic monitoring and prediction of the effectiveness of neurotrophic therapy in patients with mild cognitive impairment of the amnesic type

Gavrilova S.<sup>2</sup>, Volpina O.<sup>1</sup>, Kolykhalov I.<sup>2</sup>, Ponomareva E.<sup>2</sup>, Selezneva N.<sup>2</sup>, Fedorova Y. B., Karaev D.<sup>1</sup>, A. V. Kamynin

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### P11 - 11 $\beta$ -hydroxysteroid dehydrogenase type I inhibitors pharmacological mechanism of potential therapeutic uses - a systematic review

Sarah Gregory<sup>1</sup>, John W. Ketelbey<sup>2</sup>, Tamara Miller<sup>2</sup>, Vincent S Ruffles<sup>2</sup>, Craig W. Ritchie<sup>1</sup>

<sup>1</sup>University of Edinburgh, Edinburgh, UK, <sup>2</sup>Actinogen Medical Ltd, Sydney, New South Wales, Australia

### P20 - SUVN-502 - Baseline characteristics of phase 2a study in moderate Alzheimer's disease - First-in-class Triple combination of SUVN-502+Donepezil+Memantine - A Promising new approach for the symptomatic treatment of Alzheimers Disease

Ramakrishna Nirogi, PhD<sup>1</sup>, Jyothsna Ravula, MS<sup>1</sup>, Satish Jetta, MS<sup>1</sup>, Koteswara Mudigonda, PhD<sup>1</sup>, Vinod Kumar Goyal, MS<sup>1</sup>, Santosh Kumar Pandey, MS<sup>1</sup>, Gopinadh Bhyrapuneni, PhD<sup>1</sup>, Renny Abraham, PhD<sup>1</sup>, Vijay Benade, MS<sup>1</sup>, Pradeep Jayarajan, PhD<sup>1</sup>, Anil Shinde, PhD<sup>1</sup>, John Ieni, PhD<sup>1</sup> and Venkat Jasti, MS<sup>1</sup>

<sup>1</sup>Discovery Research, Suven Life Sciences Ltd, Hyderabad, India

### P23 - Efficacy and safety of trigriluzole (BHV-4157) in patients with mild to moderate Alzheimer's dementia: T2 PROTECT AD phase 2 study design

Irfan A. Qureshi, M.D.<sup>1</sup>, Karen Messer, Ph.D.<sup>2</sup>, Kirsten Erickson, Ph.D.<sup>2</sup>, Robert M. Berman, M.D.<sup>1</sup>, Carolyn Revta<sup>2</sup>, Tilman Oltersdorf, M.D.<sup>2</sup>, Branko Huisa, M.D.<sup>2</sup>, Diane Jacobs, Ph.D.<sup>2</sup>, David Salmon, Ph.D.<sup>2</sup>, Doug Galasko, M.D.<sup>2</sup>, Thomas O. Obisesan, M.D.<sup>3</sup>, Neelum Aggarwal, M.D.<sup>4</sup>, Jacobo Mintzer, M.D.<sup>5</sup>, Judith Heidebrink, M.D.<sup>6</sup>, Amanda Smith, M.D.<sup>7</sup>, Miranda N. Reed, Ph.D.<sup>8</sup>, Holly C. Hunsberger, Ph.D.<sup>8</sup>, Lia Donahue<sup>1</sup>, Kimberly Gentile<sup>1</sup>, David A. Stock, Ph.D.<sup>1</sup>, Vladimir Coric, M.D.<sup>1</sup>, Howard Feldman, M.D.<sup>2</sup>

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### P56 - Gamma-secretase modulation has multiple anti-amyloidogenic effects in vivo

Bengt Winblad<sup>4,6</sup>, Gunnar Nordvall<sup>2,3,4</sup>, Ping Yan<sup>5</sup>, Johan Lundkvist<sup>1,2,3,4</sup>, Johan Sandin<sup>1,2,3,4</sup>, Henrik Biverstål<sup>4</sup>, Henrik Zetterberg<sup>7</sup>, Rebecka Klintonberg<sup>3</sup>, Mats Ferm<sup>3</sup>, John R Cirrito<sup>5</sup>, Jin-Moo Lee<sup>5</sup>

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### P60 - Discovery of novel molecular chaperone modulators for the treatment of tau pathogenesis in Alzheimer's disease

Rajnish Kumar, PhD<sup>1</sup>, Pavel Pavlov, PhD<sup>1</sup>, Bengt Winblad, MD, PhD<sup>1,2</sup>

<sup>1</sup>Department of Neurobiology, Care Sciences and Society, Center for Alzheimer Research, Division of Neurogeriatrics, Karolinska Institutet, Solna, Sweden, <sup>2</sup>Department of Geriatric Medicine, Karolinska University Hospital, Huddinge, Sweden

### P79 - CogniXtra preventive treatment affords neuroprotection against amyloid beta 25-35 peptide-induced toxicity in mice

Francois J. Roman<sup>1</sup>, PhD, Johann Meunier<sup>1</sup>, PhD, Laura Ceolin<sup>1</sup>, PhD, Jean-Marie Butterlin<sup>2</sup>, MS, Guillaume Blivet<sup>3</sup>, MS, Jacques Touchon<sup>4</sup>, MD, PhD

<sup>1</sup>Amylgen, Montferrier-sur-Lez, France, <sup>2</sup>Health Optimization Devices B.V., Maastricht, Netherlands, www.cognixtra.com, <sup>3</sup>Montpellier, France, <sup>4</sup>INSERM UI061 & Montpellier University, Montpellier, France

### P84 - Clinical Development of AXS-05 (Dextromethorphan/Bupropion) for Agitation Associated with Alzheimer's Disease

Herriot Tabuteau, MD<sup>1</sup>, Amanda Jones, PharmD<sup>1</sup>, Cedric O'Gorman, MD<sup>1</sup>

<sup>1</sup>Axsome Therapeutics Inc., USA

### P85 - Pharmacokinetics and safety profile of intravenous administration of Allopregnanolone in patients with early Alzheimer's disease

Gerson D. Hernandez, MD, MPH<sup>1</sup>, Naoko Kono, MPH<sup>2</sup>, Claudia M. Lopez, BS<sup>1</sup>, Ron Irwin, PhD<sup>3</sup>, Kathleen Rodgers, PhD<sup>1</sup>, Jimmy Wu, PhD<sup>4</sup>, Rosario Mollo, PhD<sup>4</sup>, Sonia Pawluczyk, MD<sup>5</sup>, Meng Law, MD<sup>6</sup>, Wendy Mack, PhD<sup>2</sup>, Lon Schneider, MD, MS<sup>5</sup>, Roberta D. Brinton, PhD<sup>1</sup>

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**PI05 - SM07883, a novel DYRK1A inhibitor, reduced Tau pathology – discovery and preclinical development of a potential therapeutic for Alzheimer's disease**

Benoît Melchior, PhD<sup>1</sup>, Carolyn Lai<sup>1</sup>, Karen Duong-Polk<sup>1</sup>, Amanda Tjitro<sup>1</sup>, Lauren Pitzer<sup>1</sup>, Joshua Stewart<sup>1</sup>, Luis Dellamary<sup>1</sup>, Scott Anderson<sup>1</sup>, Brian Hofilena<sup>1</sup>, Chiao-Wen Chen, PhD<sup>1</sup>, Charlene Barroga, PhD<sup>1</sup>, Gopi Mittapalli, PhD<sup>1</sup>, Sunil KC, PhD<sup>1</sup>, Philippe Marchand, PhD<sup>1</sup>, and Yusuf Yazici, MD<sup>1</sup>

*Samumed, LLC, San Diego, USA*

**PI06 - Apabetalone, a BET bromodomain inhibitor, suppresses inflammatory mediators in microglia and vascular endothelial cells that contribute to neurodegenerative disease**

Ewelina Kulikowski<sup>1</sup>, Emily Daze<sup>1</sup>, Sylwia Wasiak<sup>1</sup>, Dean Gilham<sup>1</sup>, Laura M. Tsujikawa<sup>1</sup>, Brooke Rakai<sup>1</sup>, Stephanie C. Stotz<sup>1</sup>, Christopher Halliday<sup>1</sup>, Ravi Jahagirdar<sup>1</sup>, Norman C. W. Wong<sup>1</sup>, Michael Sweeney<sup>2</sup> and Jan O. Johansson<sup>2</sup>

*<sup>1</sup>Resverlogix Corp, Calgary, AB, Canada, <sup>2</sup>Resverlogix Inc, San Francisco, CA, USA*

**PI07 - Clinico-radiological recovery of ARIA-like events in corticosteroid-treated CAA-ri patients: implications for the management of ARIA side effects of anti-amyloid immunotherapy**

Fabrizio Piazza, PhD<sup>1,2,3,4</sup>, on behalf of The iCA $\beta$  International Network Collaborators and The CAA Study Group of the Italian Society of Neurology for dementia\* Jacopo C. DiFrancesco<sup>1,2,3</sup>, Marialuisa Zedde<sup>1,5</sup>, Federica Angiulli<sup>1,3</sup>, Rosario Pascarella<sup>5</sup>, Roberto Marconi<sup>6</sup>, Francesco Perini<sup>7</sup>, Alberto Villarejo-Galende<sup>8</sup>, Mario Cirillo<sup>9</sup>, Bernardino Orlandi<sup>10</sup>, Ihara Masafumi<sup>11</sup>, Mehdi Touat<sup>12</sup>, Hagiwara Yuta<sup>16</sup>, Juan F. Vázquez-Costa<sup>16</sup>, Massimo Caulo<sup>15</sup>, Shima Atsushi<sup>16</sup>, Alessia Giossi<sup>17</sup>, Ricardo Nitrini<sup>18</sup>, Massimo Musicco<sup>2,4</sup> \*Main Network Collaborators :

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**PI08 - Clinical Pharmacokinetics and Pharmacodynamics Demonstrate Once-Weekly Corplex™ Donepezil Transdermal System as a Therapeutic Alternative to Daily Oral Aricept**

Bobby Singh, Corium International, Inc., 235 Constitution Drive, Menlo Park, California, USA

**Late Breaking Posters****LBP59 - Triple therapy with SUVN-502, a 5-HT<sub>6</sub> antagonist, donepezil and memantine in moderate Alzheimer's disease: Baseline patient characteristics in phase-2a study**

Alireza Atri, MD, PhD<sup>1,2</sup>, Jeffrey L. Cummings, MD, ScD<sup>3</sup>, John Ieni, PhD<sup>4</sup>, Venkat Jasti, MS<sup>4</sup>, Ramakrishna Nirogi, PhD<sup>4</sup>

*<sup>1</sup>Banner Sun Health Research Institute/Banner Health, Sun City, AZ, USA, <sup>2</sup>Center for Brain/Mind medicine, Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, USA, <sup>3</sup>Cleveland Clinic, Las Vegas, NV, USA, <sup>4</sup>Discovery Research, Suvon Life Sciences, Hyderabad, India*

**LBP60 - Clinical polysomnography trial of suvorexant for treating insomnia in Alzheimer's disease: trial design and baseline characteristics of participants**

W.J. Herring, MD, PhD<sup>1</sup>, P. Ceesay, PhD<sup>1</sup>, E. Snyder, PhD<sup>1</sup>, D. Bliwise, MD<sup>2</sup>, K. Budd, BS<sup>1</sup>, J. Hutzelmann, BS<sup>1</sup>, J. Stevens, BS<sup>1</sup>, D. Michelson, MD<sup>1</sup>

*<sup>1</sup>Merck & Co. Inc., Kenilworth, NJ, USA, <sup>2</sup>Emory University School of Medicine, Atlanta, GA, USA*

**LBP61 - Neuroprotective effect of a new photobiomodulation technique against amyloid A $\beta$ 25-35 peptide induced toxicity in mice might support a novel hypothesis for therapeutic approach of Alzheimer's disease**

Guillaume J. Blivet, MS<sup>1</sup>, Laura Auboyer, PhD<sup>1</sup>, Johann Meunier, PhD<sup>2</sup>, François J. Roman, PhD<sup>2</sup>, Jacques Touchon, MD, PhD<sup>3,4</sup>

*<sup>1</sup>REGENLIFE SAS, Montpellier, France, <sup>2</sup>Amylgen SAS, Montferrier-sur-Lez, France, <sup>3</sup>INSERM U1061, Montpellier, France, <sup>4</sup>Neurology Department, University of Montpellier, France*

**LBP62 - Interest of REGENLIFE RGN530 photobiomodulation medical device for the treatment of Alzheimer's disease: a double-blind, randomized sham-controlled trial to evaluate the safety and efficacy**

Audrey Gabelle, MD, PhD<sup>1,2</sup>, Thibault Mura, MD, PhD<sup>2,3</sup>, Karim Bennys, MD<sup>1,2</sup>, Sophie Navucet, MS<sup>1,2</sup>, Martine Flores, MS<sup>1,2</sup>, Laura Auboyer, PhD<sup>4</sup>, Guillaume J. Blivet, MS<sup>4</sup>, Jacques Touchon, MD, PhD<sup>1,2</sup>

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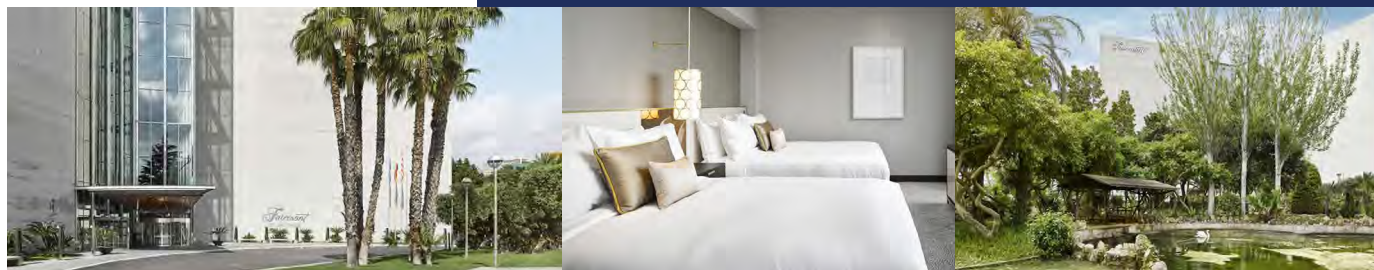
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