

# POSTER PRESENTATIONS

## THEME 1: Clinical trials methodology

### **P1: Underrepresented Elders in The Brain Health Registry: US Representativeness and Registry Behavior**

*Miriam ASHFORD (1, 2), Joseph EICHENBAUM (1, 2, 3), Tirzah WILLIAMS (1, 2, 3), Juliet FOCKLER (2, 3), Monica CAMACHO (1, 2), Aaron ULBRICHT (2, 3), Derek FLENNIKEN (1, 2), Diana TRURAN (1, 2), R. Scott MACKIN (2, 4), Michael W. WEINER (1, 2, 3), Rachel L NOSHENY (2, 4) - (1)Northern California Institute for Research and Education (NCIRE), United States, (2)Department of Veterans Affairs Medical Center, Center for Imaging and Neurodegenerative Diseases, United States, (3)Department of Radiology and Biomedical Imaging, University of California, United States, (4)Department of Psychiatry, University of California San Francisco, United States*

### **P2: A Phase 3- Efficacy and Safety Study Protocol of Traneurocin (NA-831) in Participants Who Are Asymptomatic at Risk for Developing Alzheimer's Dementia (PREVENTION)**

*Lloyd TRAN, Fern VU, Stephanie NEAVE, Brian TRAN - (1)NeuroActiva, Inc., United States*

### **P3: Using Network Analysis and Machine Learning Methods to Evaluate the Efficacy of Lemborexant in Patients with Irregular Sleep Wake Rhythm Disorder and Alzheimer's Disease Dementia**

*Margaret MOLINE, Nusrat RABBEE - (1)Eisai, Inc., United States*

### **P4: Medicare Advantage – Impact of New Memory Fitness Benefit and Reimbursement Structure to Increase Referrals to Alzheimer's Disease Clinical Trials**

*John DWYER, Cyndy CORDELL - (1)The Global Alzheimer's Platform (GAP) Foundation, United States*

### **P5: Suitability of EPAD Longitudinal Cohort Study (EPAD LCS) population from memory clinics for preventive clinical trials**

*Isabelle CARRIE (1), Pierre Jean OUSSET (1, 2, 3), Delphine PENNETIER (1), Julien DELRIEU (1, 2, 3), Nathalie SASTRE HENGAN (1), Françoise LALA (1), Bruno VELLAS (1, 2, 3) - (1)Gerontopole, Toulouse University Hospital, France, (2)INSERM Unit 1027, France, (3)Toulouse University III, France*

### **P6: A 48-Week Phase 3 Clinical Trial Method to Evaluate the Efficacy and Safety of NA-831 in Subjects With Early Alzheimer's Disease**

*Lloyd TRAN, Fern VU, Brian TRAN, Stephanie NEAVE - (1)NeuroActiva, Inc., United States*

### **P7: Diversity & Inclusion in Alzheimer's Disease Clinical Trials Workforce: a survey to assess baseline membership and climate in the Alzheimer's Clinical Trials Consortium (ACTC)**

*Rema RAMAN (1), Amanda SMITH (2), Gustavo JIMENEZ-MAGGIORA (1), Karin ERNSTROM (1), Jia-Shing SO (1), Marian WONG (1), Paul AISEN (1), Reisa SPERLING (3), Neelum AGGARWAL (4) - (1)Alzheimer's Therapeutic Research Institute, University of Southern California, United States, (2)USF Health Byrd Alzheimer's Institute & Department of Psychiatry and Behavioral Neurosciences, University of South Florida Morsani College of Medicine, United States, (3)Department of Neurology,*

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**P8: The impact of patient selection strategies on clinical trial power**

*Kaanan SHAH (1, 2), Michael DONOHUE (3), Jared CARA (1), Lon SCHNEIDER (3), Tom BEACH (1), Julie COLLENS (1) - (1)Vivid Genomics, United States, (2)Banner Sun Health Research Institute, United States, (3)University of Southern California, United States*

**P9: Physical Activity and Alzheimer's Disease - 2: Clinical Trial Protocol**

*Jennifer ETNIER (1), Laurie WIDEMAN (1), William KARPER (1), Jeffrey LABBAN (1), Christopher WAHLHEIM (1), Tomeka WILLIAMS (2), Shonda MOBLEY (1), Alexis SLUTSKY (1, 3), Kyoung Shin PARK (1), Nathaniel BERRY (1) - (1)University of North Carolina at Greensboro, United States, (2)East Carolina University, United States, (3)UNC Greensboro Gateway MRI Center, United States*

**P10: Reproducibility and Replicability of Digital Biomarkers for Reducing Sample Sizes in Preclinical Alzheimer Trials**

*Chao-Yi WU (1, 2), Hiroko DODGE (1, 2, 3), Zachary BEATTIE (1, 2), Nora MATTEK (1, 2), Jeffrey KAYE (1, 2) - (1)Department of Neurology, Oregon Health & Science University, United States, (2)Oregon Center for Aging and Technology (ORCATECH), Oregon Health & Science University, United States, (3)Michigan Alzheimer's Disease Center, Department of Neurology, University of Michigan, United States*

**P11: Novel analytics framework for augmenting single-arm Phase 2a open label trials with Real-World external control data: Application to the Blarcamesine (ANAVEX®2-73) study in Alzheimer's disease matched with propensity corrected patients from Alzheimer's D**

*Mohammad AFSHAR (1), Coralie WILLIAMS (1), Nanthara SRITHARAN (1), Frederic PARMENTIER (1), Federico GOODSID (2), Christopher MISSLING (3) - (1)Ariana Pharma, France, (2)Regulatory Pathfinders, United States, (3)ANAVEX, United States*

**P12: Using Direct-to-Consumer Genetic Testing Results in Alzheimer's Disease Clinical Trial Recruitment**

*Mary RYAN (1, 2), Chelsea COX (3), Joshua GRILL (4, 5, 3), Daniel GILLEN (1) - (1)Department of Statistics, University of California, Irvine, United States, (2) Institute for Memory Impairments and Neurological Disorders, University of California, Irvine, United States, (3)Institute for Memory Impairments and Neurological Disorders, University of California, Irvine, United States, (4)Department of Psychiatry & Human Behavior, University of California, Irvine, United States, (5)Department of Neurobiology & Behavior, University of California, Irvine, United States*

**P13: Differences in Willingness to Participate in Clinical Research According to Diagnostic Groups**

*Lovingly PARK, Svetlana SEMENOVA, Gaby ALARCON, Zyanya MENDOZA, Lydia MORRIS, Lev GERTSIK, Sophie LEE, Stan JHEE - (1)Parexel International, United States*

**P14: Gene- and Age-Informed Screening for Preclinical Alzheimer's Disease Trials**

*Barbara SPENCER, Leonardo DIGMA, Robin JENNINGS, James BREWER - (1)UC San Diego, United States*

**P15: ECT-AD Study Design: A Randomized Controlled Trial of Electroconvulsive Therapy plus Usual Care versus Simulated-ECT plus Usual Care for the Management of Treatment-Refractory Agitation in Alzheimer's Dementia**

*Maria LAPID (1), Brent FORESTER (2), Adriana HERMIDA (3), Louis NYKAMP (4), Martina MUELLER (5), Rebecca KNAPP (5), Bruce SUTOR (1), Emily JOHNSON (1), Monica WALTON (1), Steve SEINER (2), David HARPER (2), Emily KILPATRICK (2), Hannah HEINTZ (2), William MCDONALD (3), Patricio RIVA POSSE (3), Rebecca SEIDEMANN (3), Amitha DHINGRA (3), Jack MAHDASIAN (4), Sohag SANGHANI (6), Georgios PETRIDES (6) - (1)Mayo Clinic, United States, (2)McLean Hospital, United States, (3)Emory University, United States, (4)Pine Rest Christian Mental Health Center, United States, (5)Medical University of South Carolina, United States, (6)Zucker Hillside Hospital/Northwell Health, United States*

**P16: Generating synthetic control subjects using machine learning for Alzheimer's Disease clinical trials**

*Aaron SMITH, Charles FISHER, Jonathan WALSH - (1)Unlearn.Health, United States*

**P17: A paradigm shift in AD clinical trial design: Sequential, temporal, overlapping combination therapy from the cognitively normal at risk population to preclinical disease stage and beyond**

*Jennifer MURPHY (1), Claudine BRISARD (2), Joanne BELL (1) - (1)Syneoshealth.com, United States, (2)Syneoshealth.com, France*

**P18: Development of a machine learning algorithm to classify dementia stage based on symptoms reported online.**

*Kenneth ROCKWOOD (1, 2), Aaqib SHEHZAD (2), Justin STANLEY (2), Taylor DUNN (2), Susan HOWLETT (1, 2), Arnold MITNITSKI (1, 2), Chere CHAPMAN (2) - (1)Dalhousie University, Canada, (2)DGI Clinical, Canada*

**P19: A frailty index based on routinely collected laboratory safety data is associated with cognitive decline in clinical trials for anti-dementia drugs.**

*Kenneth ROCKWOOD (1, 2), Taylor DUNN (2), Susan HOWLETT (1, 2), Justin STANLEY (2), Arnold MITNITSKI (1, 2), Chere CHAPMAN (2) - (1)Dalhousie University, Canada, (2)DGI Clinical, Canada*

**P20: Comparison of the FCSRT and RBANS in screening early Alzheimer's disease patients for clinical trials**

*Edmond TENG, Stevan DJAKOVIC, Paul MANSER, Nan HU, Heavenly SWENDSEN, Kaycee SINK - (1)Genentech, United States*

**P21: Primary Analysis Model for Sporadic Alzheimer Disease: Univariate model for the composite score or Multivariate model for all the component scores?**

*Yan LI (1), Guoqiao WANG (1), Andrew ASCHENBRENNER (1), Jason HASSENSTAB (1), Eric MCDADE (1), Jorge LLIBRE-GUERRA (1), Scott BERRY (2), Randall BATEMAN (1), Chengjie XIONG (1) - (1)Washington University in St. Louis, United States, (2)Berry Consultants, LLC, United States*

**P22: Study Partner Type and Dropout in Alzheimer's Disease Registration Clinical Trials**

*Olivia M. BERNSTEIN (1), Joshua D. GRILL (2), Daniel L. GILLEN (1) - (1)Department of Statistics, Institute for Memory Impairments and Neurological Disorders, University of California, Irvine, United States*

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**P23: A Phase II study evaluating efficacy and safety of oral BI 425809 in patients with cognitive impairment due to Alzheimer's disease dementia**

*Glen WUNDERLICH (1), Frank JESSEN (2), Miguel GARCIA JR. (3), Zuzana BLAHOVA (4) - (1)Boehringer Ingelheim, Canada, (2)Klinik und Poliklinik für Psychiatrie und Psychotherapie, Uniklinik Köln, Germany, (3)Boehringer Ingelheim Pharmaceuticals Inc, United States, (4)Boehringer Ingelheim RCV GmbH & Co KG, Austria*

**P24: The Cognitive Task Force; A novel approach to improving the efficiency of cognitive screening for the Elenbecestat MissionAD Global Phase 3 Studies in Early Alzheimer's disease**

*Thomas DOHERTY (1), Jennifer MURPHY (2), Robert SMITH (3), Julie MARSH (4), Luke KOSCHALKA (5), Mairelys MARTINEZ (2), Michelle GEE (6), Bruce ALBALA (7) - (1)Universtiy of Westminster, United Kingdom, (2)Syneos Health, United States, (3)Worldwide Clinical Trials, France, (4)Medavante, United States, (5)Syneos Health, Spain, (6)Eisai Ltd, United Kingdom, (7)Eisai Inc., United States*

**P25: Quantifying Impact of Enrichment in Alzheimer's Disease Trials when Pre-Post Models are Utilized**

*Navneet HAKHU (1), Daniel GILLEN (1, 2), Joshua GRILL (1, 3) - (1)Institute for Memory Impairments and Neurological Disorders, University of California, Irvine, United States, (2)Department of Statistics, University of California, Irvine, United States, (3)Department of Psychiatry and Human Behavior, University of California, Irvine, United States*

**P26: Validation of Alzheimer's Biomarkers: Amyloid beta 1-40 and Phosphorylated Tau in Cerebrospinal fluid (CSF) by Automated CLEIA on Fujirebio's Lumipulse Platform**

*Satya /Nandana NARLA (1), Amanda DIDER (1), Florent FLORENT (2) - (1)Covance, United States, (2)Covance, Switzerland*

**P27: A cohort study to identify predictors for the clinical progression to mild cognitive impairment or dementia from subjective cognitive decline**

*Seonghee HO, Dong Won YANG - (1)The Catholic University of Korea, Seoul St. Mary's Hospital, Korea, Republic of*

**P28: Consistence in assaying plasma amyloid and Tau protein using two different protocols of preparing plasma samples via immunomagnetic reduction**

*W.P. CHEN (1), Shieh-Yueh YANG (2, 1), Ming-Jang CHIU (3) - (1)MagQu LLC, United States, (2)MagQu Co., Ltd., Taiwan, Republic of china, (3)NationalTaiwan University Hospital, Taiwan, Republic of china*

**P29: Dense Longitudinal Molecular Data for Turbocharging Clinical Trials**

*Jared ROACH (1), Junko HARA (2), Jennifer LOVEJOY (1), Deborah FRIDMAN (2), Laura HEIM (2), Molly RAPOZO (1), Laura HEATH (1), Cory FUNK (1), Maria FISCHER (1), Leroy HOOD (1), Nathan PRICE (1), Michael BRANT- ZAWADSKI (2), William SHANKLE (2) - (1)Institute for Systems Biology, United States, (2)Hoag Memorial Hospital Presbyterian, United States*

**P30: Study Design for Preventing Alzheimer's with Cognitive Training: The PACT Trial.**

David MORGAN (1), Aryn HARRISON-BUSH (2), Alisa HOUSEKNECHT (2), Jennifer O'BRIEN (2), Jerri EDWARDS (2) - (1)Michigan State University, United States, (2)University of South Florida, United States

**P31: Feasibility of Remote Collection of Genetic Material from Participants Enrolled in an Internet-Based Registry**

Winnie KWANG (1, 2), Juliet FOCKLER (1, 2), Derek FLENNIKEN (1, 2), Joshua HWANG (1, 2), Diana TRURAN (1), R. Scott MACKIN (1, 3), Ruth O'HARA (4), Joachim HALLMAYER (4), Jerome YESAVAGE (4), Michael WEINER (1, 2), Rachel NOSHENY (1, 3) - (1)Center for Imaging of Neurodegenerative Diseases, San Francisco Veteran's Administration Medical Center, United States, (2)University of California, San Francisco Department of Radiology and Biomedical Imaging, United States, (3)University of California, San Francisco Department of Psychiatry, United States, (4)Stanford University Department of Psychiatry and Behavioral Sciences, United States

**P32: Proposed methods for disclosing beta-amyloid status to cognitively unimpaired late-middle aged adults**

Claire ERICKSON, Nathaniel CHIN, Lindsay CLARK, Sterling JOHNSON - (1)University of Wisconsin-Madison, United States

**P33: Don't Forget This! The patient in your study may be in another**

Thomas SHIOVITZ, Brittany STEINMILLER, Chelsea STEINMETZ, Sandra PEREZ - (1)CTSdatabase, LLC, United States

**P34: Data-Driven Participant Recruitment: Findings from the Alzheimer's Disease Neuroimaging Initiative 3**

Charissa BARGER (1), Juliet FOCKLER (2), Winnie KWANG (2), Shelley MOORE (1), Derek FLENNIKEN (2), Aaron ULBRICHT (2), Paul AISEN (1), Michael WEINER (2) - (1)USC Alzheimer's Therapeutic Research Institute, United States, (2)UCSF Department of Radiology and Biomedical Imaging & Center for Imaging of Neurodegenerative Diseases, San Francisco Veteran's Administration Medical Center, United States

**P35: Learning from failed trials : virtual patient analysis of Aducanumab trial using a Quantitative Systems Pharmacology approach**

Hugo GEERTS, Athan SPIROS - (1)In Silico Biosciences, United States

**P36: A seamless phase 2a-2b randomized double-blind placebo-controlled trial to evaluate the efficacy and safety of PQ912 in patients with early Alzheimer's disease: design and methods**

Howard FELDMAN (1), Karen MESSER (1), Frank WEBER (2), Kirsten ERICKSON (1), Branko HUISA (1), Tilman OLTERS DORF (1), Diane JACOBS (1), David SALMON (1), Carolyn REVTA (1), Suzanne BRUINS (2), Doug GALASKO (1), Oscar LOPEZ (3), Mary QUICENO (4), Murray RASKIND (5), Marwan SABBAGH (6), Raymond Scott TURNER (7) - (1)Alzheimer's Disease Cooperative Study, University of California at San Diego, United States, (2)Probiobdrug AG, Germany, (3)University of Pittsburgh Medical Center, United States, (4)University of North Texas Health Science Center, United States, (5)University of Washington, United States, (6)Cleveland Clinic Lou Ruvo Center for Brain Health, United States, (7)Georgetown University, United States

## THEME 2 : Clinical Trials Results

**P37: Masupirdine (SUVN-502) in combination with donepezil and memantine in patients with moderate Alzheimer's disease: Exploratory subgroup analyses of memantine regimen, concentrations and duration of treatment**

*Alireza ATRI (1), Jeffrey CUMMINGS (2), Ramakrishna NIROGI (3), Vinod GOYAL (3), Gopi BHYRAPUNENI (3), Pradeep JAYARAJAN (3), Venkat JASTI (3) - (1)Banner Sun Health Research Institute, Banner Alzheimer's Institute, Banner Health; Department of Neurology, Brigham and Women's Hospital and Harvard Medical School, Boston, United States, (2)Department of Brain Health, School of Integrated Health Sciences, University of Nevada, Las Vegas; Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States, (3)Suvan Life Sciences, India*

**P38: Potential benefits of Masupirdine (SUVN-502) on behavioral and psychological symptoms in patients with moderate Alzheimer's Disease**

*Jeffrey CUMMINGS (1), Ramakrishna NIROGI (2), Pradeep JAYARAJAN (2), Anil SHINDE (2), Venkat JASTI (2) - (1)Department of Brain Health, School of Integrated Health Sciences, University of Nevada; Cleveland Clinic, Lou Ruvo Center for Brain Health, United States, (2)Suvan Life Sciences, India*

**P39: Phase 1 Single Ascending Dose Study Of The Muscarinic Positive Allosteric Modulator VU319**

*Paul NEWHOUSE, Alexander CONLEY, Alexandra KEY, Jenni BLACKFORD, Jerri ROOK, P. Jeffery CONN, Craig LINDSLEY, Carrie JONES - (1)Vanderbilt, United States*

**P40: Reversal of Alzheimer's Memory Impairment by Transcranial Electromagnetic Treatment: Associated A-beta and Tau Changes in CSF/Blood and Brain Imaging Benefits**

*Gary ARENDASH (1), Chuanhai CAO (2), Haitham ABULABAN (3), Rob BARANOWSKI (4), Gary WISNIEWSKI (5), Lino BECERRA (5), Ross ANDEL (6), John ARRINGTON (7), Amanda SMITH (3) - (1)NeuroEM Therapeutics, Inc., United States, (2)College of Pharmacy, University of South Florida, United States, (3)University of South Florida Health/Byrd Alzheimer's Institute, United States, (4)Left Coast Engineering, United States, (5)Invicro, United States, (6)School of Aging Studies, University of South Florida, United States, (7)University Diagnostic Institute, United States*

**P41: A 48-week, observational, longitudinal multicenter study on the effectiveness of 9.5 mg/24 h (10 cm<sup>2</sup>) rivastigmine in patients with mild to moderate dementia of the Alzheimer's type**

*Chiung-Chih CHANG - (1)Kaohsiung Chang Gung Memorial Hospital, Taiwan, Republic of China*

**P42: Tau aggregation inhibitor dose-selection for further Phase 3 trial determined from population pharmacokinetic analysis in completed studies showing exposure-dependent activity of hydromethylthionine on cognitive decline and brain atrophy in mild-moderate**

*Claude WISCHIK (1, 2), Serge GAUTHIER (3) - (1)TauRx Therapeutics Ltd, United Kingdom, (2)University of Aberdeen, United Kingdom, (3)McGill Centre for Studies in Aging, Canada*

**P43: Alzheimer's Disease Drug Development Pipeline 2019**

*Aaron RITTER, Kate ZHONG, Garam LEE, Jeffrey CUMMINGS, Marwan SABBAGH - (1)Cleveland Clinic, United States*

**P44: Allopregnanolone shows significant effect on the lipid pathways from plasma metabolomic analysis of Alzheimer's clinical trial**

Roberta BRINTON (1), Yuan SHANG (1), Gerson HERNANDEZ (1), Claudia LOPEZ (1), Fei YIN (1), Lon SCHNEIDER (2) - (1)the University of Arizona, United States, (2)University of Southern California, United States

**P45: Association between a cholinesterase inhibitor and choline alfoscerate in Alzheimer's disease: The results at the end of the trial.**

Francesco AMENTA (1), Anna CAROTENUTO (1, 2), Angiola FASANARO (2), Valentino MANZO (2), Enea TRAINI (3) - (1)Clinical Research, Telemedicine and Telepharmacy Centre, University of Camerino,, Italy, (2)Neurology Unit, National Hospital, "A. Cardarelli",, Italy, (3)Clinical Research, Telemedicine and Telepharmacy Centre, University of Camerino, Italy

**P46: Exposure and Safety Data from an Ongoing Open Label Extension to a Phase II Study with the BACE Inhibitor Elenbecestat in Subjects with Mild Cognitive Impairment due to Alzheimer's Disease and Mild to Moderate Dementia due to Alzheimer's Disease**

Michelle GEE (1), Monique GIROUX (2), Michio KANEKIYO (2), Albala BRUCE (2) - (1)Eisai Ltd., United Kingdom, (2)Eisai Inc., United States minor outlying islands

**P47: Amyloid Positive Subject Characteristics in the Elenbecestat MISSIONAD Phase 3 Program**

Claire ROBERTS (1), Michio KANEKIYO (2), June KAPLOW (2), Bruce ALBALA (2) - (1)Eisai Ltd, United Kingdom, (2)Eisai Inc, United States

**P48: Concentration-dependent reduction in clinical decline and brain atrophy in a Phase 3 trial of leuco-methylthioninium bis(hydromethanesulphonate) (LMTM) in behavioural variant frontotemporal dementia**

Christopher M KIPPS (1), Helen C SHIELLS (2), Bjoern O SCHELTER (2, 3), Serge GAUTHIER (4), Claude M WISCHIK (2, 3) - (1)University Hospital, United Kingdom, (2)TauRx Therapeutics Ltd, United Kingdom, (3)University of Aberdeen, United Kingdom, (4)McGill Centre for Studies in Aging, Canada

**P49: Reduction of clinical decline and brain atrophy in mild to moderate Alzheimer's disease is concentration-dependent for leuco-methylthioninium bis(hydromethanesulphonate) (LMTM) as monotherapy and as add-on therapy in two Phase 3 clinical trials**

Bjoern O SCHELTER (1, 2), Helen C SHIELLS (1), Serge GAUTHIER (3), Christopher M RUBINO (4), Claude M WISCHIK (1, 2) - (1)TauRx Therapeutics Ltd, United Kingdom, (2)University of Aberdeen, United Kingdom, (3)McGill Centre for Studies in Aging, Canada, (4)Institute of Clinical Pharmacodynamics, United States

**P50: The Anti-Amyloid Treatment in Asymptomatic Alzheimer's Disease (A4) Study in Japan: Report of Screening Data Results**

Takeshi IWATSUBO (1), Kazushi SUZUKI (1), Ryoko IHARA (1), Chie SAKANAKA (1), Yumi UMEDA-KAMEYAMA (1), Shinya ISHII (1), Kenji KIRIHARA (1), Atsushi IWATA (1), Chung-Kai SUN (2), Michael DONOHUE (2), Paul AISEN (2), Reisa SPERLING (3) - (1)The University of Tokyo Hospital, Japan, (2)Alzheimer's Therapeutic Research Institute, United States, (3)Brigham and Women's Hospital, United States

**P51: Effect of intensive cognitive intervention in mid Alzheimer's disease: a pilot study**

Soo Hyun JOO, Chang Uk LEE, Dong Woo KANG - (1)Seoul St. Mary's hospital, Korea, Republic of

**P52: Is amyloid still a valid target for AD drug development? A meta-analysis of solanezumab mild AD dementia studies**

*Karen HOLDRIDGE, Roy YAARI, Scott ANDERSEN, John SIMS - (1)Eli Lilly and Company, United States*

**P53: Lower serum calcium as a potentially associated factor for conversion of mild cognitive impairment to early Alzheimer's disease in Japanese Alzheimer's disease Neuroimaging Initiatives**

*Atsushi IWATA, Sato KENICHIRO, Ihara RYOKO, Suzuki KAZUSHI, Iwatsubo TAKESHI - (1)The University of Tokyo, Japan*

## **THEME 3: Clinical Trials Imaging**

**P54: Entorhinal Cortical Tau Accumulation is Inversely Associated with Hippocampal Synaptic Density in Older Individuals with Normal Cognition and Early Alzheimer's Disease**

*Christopher VAN DYCK, Adam MECCA, Ming-Kai CHEN, Mika NAGANAWA, Takuya TOYONAGA, Tyler GODEK, Joanna HARRIS, Hugh BARTLETT, Jean-Dominique GALLETZOT, Nabeel NABULSI, Yiyun HUANG, Amy ARNSTEN, Richard CARSON - (1)Yale School of Medicine, United States*

**P55: Distinguishing Alzheimer's Disease with ventriculomegaly from Normal Pressure Hydrocephalus using MRI biomarkers**

*Minkyung KIM, Jun-Hyung LEE, Sang Hyung LEE - (1)Seoul National University, Medical College, Korea, Republic of*

**P56: Diagnostic accuracy of whole brain cortical DTI changes measured in Alzheimer's disease**

*Steven CHANCE (1), Mario TORSO (1), Marco BOZZALI (2), Omar EHSAN (1), Giovanna ZAMBONI (3), Mark JENKINSON (4) - (1)Oxford Brain Diagnostics, United Kingdom, (2)Santa Lucia Foundation, Italy, (3)Universita` di Modena e Reggio Emilia,, Italy, (4)University of Oxford, United Kingdom*

**P57: One-year longitudinal change of 18F-RO948 PET among cognitively unimpaired and patients with MCI or dementia in the BioFINDER2 study**

*Gregory KLEIN (1), Antoine LEUZY (2), Ruben SMITH (2), Sebastian PALMQVIST (2), Niklas MATSSON (2), Danielle VAN WESTEN (2), Olof STRANDBERG (2), Jonas JÖGI (2), Tomas OHLSSON (2), Edilio BORRONI (1), Preciosa COLOMA (3), Erik STROMRUD (2), Oskar HANSSON (2) - (1)Roche Pharma Research and Early Development, Switzerland, (2)Clinical Memory Research Unit, Department of Clinical Sciences, Sweden, (3)Roche Pharma Development Personalized Health Care, Switzerland*

**P58: Significant change of EEG biomarker in Parkinson's disease with MCI after 1year of donepezil intake**

*Seung Wan KANG (1, 2), Seon Myeong KIM (1), Seok Min KIM (1), Dong Won KANG (1), Hannah LEE (1), Ukeob PARK (1), Suk Yun KANG (3), Young Ho SOHN (4), Phil Hyu LEE (4), Kyoung Won BAIK (4) - (1)iMediSync Inc, Korea, Republic of, (2)Data Center for Korean EEG, College of Nursing, Seoul National University, Korea, Republic of, (3)Department of Neurology, Dongtan Sacred Heart Hospital, Hallym University College of Medicine, Korea, Republic of, (4)Department of Neurology, Yonsei University College of Medicine, Korea, Republic of*

**P59: Diagnostic Validity of an Automated Probabilistic Tractography in Amnesic Mild Cognitive Impairment**

*Bo-Hyun YOON (1), Won-Myong BAHK (2), Sang-Yeol LEE (3), Kwanghun LEE (4), Moon-Doo KIM (5), Beomwoo NAM (6), Se-Hoon SHIM (7), Hyun Kook LIM (2), Won Sang JUNG (8), Dae Bo LEE (9) - (1)Department of Psychiatry, Naju National Hospital, Korea, Republic of, (2)Department of Psychiatry, College of Medicine, The Catholic University of Korea, Korea, Republic of, (3)Department of Psychiatry, College of Medicine, Wonkwang University, Korea, Republic of, (4)Department of Psychiatry, School of Medicine, Dongguk University, Korea, Republic of, (5)Department of Psychiatry, School of Medicine, Jeju National University Hospital, Korea, Republic of, (6)Department of Psychiatry, Konkuk University, Korea, Republic of, (7)Department of Psychiatry, College of Medicine, Soonchunhyang University, Korea, Republic of, (8)Department of Radiology, St. Vincent Hospital, Korea, Republic of, (9)Department of Psychiatry, Mirae Hospital, Korea, Republic of*

**P60: qEEG changes in mild cognitive impairment with choline alphoscerate.**

*Young Chul YOUN (1), Seung-Wan KANG (2) - (1)Dept. of Neurology, Chung-Ang Univ. Hospital, Korea, Republic of, (2)Data Center for Korean EEG, College of Nursing, Seoul National University, Korea, Republic of*

**P61: The Normalization of Brain 18F-fluorodeoxy-D-glucose Positron Emission Tomography Hypometabolism following Electroconvulsive Therapy in a 55-year-old Woman with Treatment-resistant Late Onset Depression: A Case Report**

*Se-Hoon SHIM (1), Won-Myong BAHK (2), Bo-Hyun YOON (3), Sang-Yeol LEE (4), Kwanghun LEE (5), Moon-Doo KIM (6), Beomwoo NAM (7), Dae Bo LEE (8) - (1)Department of psychiatry, College of Medicine, Soonchunhyang University Hospital, Korea, Republic of, (2)Department of Psychiatry, College of Medicine, The Catholic University of Korea, Seoul, Korea, Korea, Republic of, (3)Department Of Psychiatry, Naju National Hospital, Korea, Republic of, (4)Department of Psychiatry, College of Medicine, Wonkwang University, Korea, Republic of, (5)Department Of Psychiatry, School Of Medicine, Dongguk University, Korea, Republic of, (6)Department of Psychiatry, School of Medicine, Jeju National Hospital, Korea, Republic of, (7)Department of Psychiatry, Konkuk University, Korea, Republic of, (8)Department of psychiatry, Mirae Hospital, Korea, Republic of*

**P62: APOE4/4 Subjects with Early Alzheimer's Disease Show Accelerated Loss of Cortical Thickness and Cognitive Decline Compared to APOE3/3 Subjects**

*Susan ABUSHABRA, John HEY - (1)Alzheon Inc, United States*

**P63: ATN Characteristics of Imaging Biomarkers of the Current LEADS Sample**

*Brad DICKERSON (1), Jessica COLLINS (1), Prashanthi VEMURI (2), Bret BOROWSKI (2), Leonardo IACCARINO (3), Renaud LA JOIE (3), Orif LESMAN-SEGEV (3), Ani ELOYAN (4), Paul AISEN (5), Anne FAGAN (6), Tatiana FAROUD (7), Constantine GATSONIS (4), Clifford JACK (8), Joel KRAMER (3), Robert KOEPPE (9), Arthur TOGA (5), Maria CARILLO (10), Liana APOSTOLOVA (7), Gil RABINOVICI (3), Leads LEADS CO-INVESTIGATORS AND STAFF (7) - (1)MGH/Harvard, United States, (2)Mayo Clinic, United States, (3)UCSF, United States, (4)Brown, United States, (5)USC, United States, (6)Washington U, United States, (7)Indiana U, United States, (8)Mayo, United States, (9)U Michigan, United States, (10)Alzheimer's Assoc, United States*

**P64: Changes in [18F]GTP1 SUVR correlate with cognitive decline over 18 months and depend on baseline SUVR intensity and spatial distribution**

*Robby WEIMER, Sandra SANABRIA BOHÓRQUEZ, Edmond TENG, Suzanne BAKER, Jan MARIK, Paul MANSER - (1)Genentech, United States*

**P65: Tau-IQ: an analytical algorithm with greater power than SUVR for quantification of Tau PET tracers illustrated with [18F]Flortaucipir and [18F]GTP1**

*Roger GUNN (1), Alex WHITTINGTON (1), Jacob HESTERMAN (2), Sandra SANABRIA (3), Robby WEIMER (3), John SEIBYL (2) - (1)Invicro, United Kingdom, (2)Invicro, United States, (3)Genentech, United States*

**P66: Relationships between glucose metabolism, volume, tau burden, and clinical endpoints in patients with mild to moderate Alzheimer's disease**

*Dawn MATTHEWS (1), Aaron RITTER (2), Ronald THOMAS (3), Randolph ANDREWS (1), Ana LUKIC (1), Carolyn REVTA (3), Babak TOUSI (2), James LEVERENZ (2), Howard FILLIT (4), Kate ZHONG (2), Howard FELDMAN (3), Jeffrey CUMMINGS (3) - (1)ADM Diagnostics Inc, United States, (2)Cleveland Clinic - Lou Ruvo Center for Brain Health, United States, (3)Alzheimer's Disease Cooperative Study, University of California San Diego, United States, (4)Alzheimer's Drug Discovery Foundation, United States*

**P67: Diffusion tensor imaging informs the detection and prediction of white matter hyperintensity load**

*David SCOTT (1), Luc BRACOUD (2), Chris CONKLIN (1), Joyce SUHY (1) - (1)Bioclinica, United States, (2)Bioclinica, France*

**P68: Classifying cognitively healthy subjects from mild cognitive impaired and Alzheimer's disease patients using Tau-PET: the role of spatial resolution and PET pre-processing**

*Richard JOULES (1), Alessandro PALOMBIT (1), Richard MANBER (1), Richard PARKER (1), Robin WOLZ (1, 2) - (1)IXICO Plc, United Kingdom, (2)Imperial College London, United Kingdom*

**P69: Combined therapy between the cholinesterase inhibitor donepezil and the cholinergic precursor, choline alphoscerate in Alzheimer's disease: Effect on brain atrophy.**

*Enea TRAINI (1), Anna CAROTENUTO (1, 2), Angiola FASANARO (1, 2), Francesco AMENTA (1) - (1)Clinical Research, Telemedicine and Telepharmacy Centre, University of Camerino,, Italy, (2)Neurology Unit, National Hospital, "A. Cardarelli", Italy*

**P70: A fully automatic pipeline for estimation of regional brain volume change using Jacobian Integration**

*Richard JOULES (1), Robin WOLZ (1, 2), Richard PARKER (1) - (1)IXICO Plc, United Kingdom, (2)Imperial College London, United Kingdom*

**P71: Observational study of focal amyloid uptake using 18F-florbetaben PET in patients with cognitive impairment**

*Sung Eun CHUNG, Jae-Hong LEE, Hyung Ji KIM, Eunjoo RHEE - (1)Neurology, Asan Medical Center, Korea, Republic of*

**P72: Imaging markers of cerebral small vessel disease and ambulatory blood pressure monitoring profile in older adults with cognitive complaints**

*Yongsoo SHIM - (1)The Catholic University of Korea, Korea, Republic of*

**P73: A pipeline for automated diffusion MRI analysis: overview and application to the study of Alzheimer's Disease**

*Richard JOULES (1), Richard PARKER (1), Robin WOLZ (1, 2) - (1)IXICO plc, United Kingdom, (2)Imperial College London, United Kingdom*

**P74: Prediction of clinical progression using amyloid biomarkers in subjective cognitive decline: A longitudinal observational study**

*Yong Bang KIM (1), Yunjeong HONG (1), Seong Hoon KIM (1), Hae Eun SHIN (2), Si Baek LEE (1), Dong Woo RYU (1), Jeong Wook PARK (1), Kyung Won PARK (3) - (1)Department of Neurology, Uijeongbu St. Mary's Hospital, Korea, Republic of, (2)Department of Neurology, Bucheon St. Mary's Hospital, Korea, Republic of, (3)Department of Neurology, Dong-A University Medical Center, Korea, Republic of*

**P75: Validation of Resting State Neurovascular Coupling in the OASIS-brains Dataset to Differentiate Normal Elderly Brains from Alzheimer's Disease**

*Taylor KUHN (1), F. Scott PERELES (2), Michael WHITNEY (2), Sergio BECERRA (3), Sheldon JORDAN (4), Hrishikesh KACHHIA (2) - (1)UCLA, Department of Psychiatry, United States, (2)Rad Alliance, United States, (3)Neurological Associates of West Los Angeles, United States, (4)Neurological Associates of West Los Angeles, UCLA Department of Neurology, United States*

**P76: Prediction of Treatment Response to Donepezil using Automated Hippocampal Subfields Volumes Segmentation in Patients with Mild Alzheimer's Disease**

*Hae Ran NA - (1)catholic medical center, Korea, Republic of*

**P77: Distinctive relationship between functional connectivity of default mode network and cognitive functions in early and late mild cognitive impairment patients**

*Chang Uk LEE, Dong Woo KANG, Soo Hyun JOO - (1)The Catholic University of Korea, Korea, Republic of*

## THEME 4 : Clinical Trials Biomarkers

### **P78: Low testosterone levels relate to higher cerebrospinal p-tau levels: implications for sex differences in pathological tau**

*Erin SUNDERMANN, Xu CHEN, Matthew PANIZZON, Douglas GALASKO, Sarah BANKS - (1)University of California, San Diego, United States*

### **P79: Association between serum markers of intestinal permeability and CSF biomarkers of Alzheimer's disease and neurodegeneration**

*Margo HESTON (1, 2), Nicholas VOGT (1), Jack HUNT (1), Tyler ULLAND (3), Sanjay ASTHANA (1, 4), Sterling JOHNSON (1, 5, 4), Cynthia CARLSSON (1, 5, 4), Kaj BLENNOW (6), Henrik ZETTERBERG (7, 6, 8), Federico REY (9), Barbara BENDLIN (1), Nathaniel CHIN (1) - (1)Wisconsin Alzheimer's Disease Research Center, University of Wisconsin School of Medicine and Public Health, United States, (2)Cellular and Molecular Pathology, Department of Pathology and Laboratory Medicine, University of Wisconsin School of Medicine and Public Health, United States, (3)University of Wisconsin School of Medicine and Public Health, United States, (4)Geriatric Research Education and Clinical Center, William S. Middleton Memorial Veterans Hospital, United States, (5)Wisconsin Alzheimer's Institute, University of Wisconsin School of Medicine and Public Health, United States, (6)Institute of Neuroscience and Physiology, Department of Psychiatry and Neurochemistry, The Sahlgrenska Academy at University of Gothenburg, Sweden, (7)Clinical Neurochemistry Laboratory, Sahlgrenska University Hospital, Sweden, (8)University College London, United Kingdom, (9)University of Wisconsin-Madison Department of Bacteriology, United States*

### **P80: Prediction of amyloid pathology by the plasma A $\beta$ (1-42)/A $\beta$ (1-40) ratio measured with fully automated immunoassay system (HISCL™ series).**

*Kazuto YAMASHITA (1), Takehiro HASEGAWA (1), Takuya IINO (1), Masahiro MIURA (1), Toshihiro WATANABE (1), Shunsuke WATANABE (1), Shigeki IWANAGA (1), Amane HARADA (1), David VERBEL (2), Shobha DHADDA (2), Hiroyuki AMINO (3), Mitsuhiro INO (3), Akihiko KOYAMA (2), Takehiko MIYAGAWA (3), Tomokazu YOSHIDA (1) - (1)Sysmex Corporation, Japan, (2)Eisai Inc., United States, (3)Eisai Co., Ltd., Japan*

### **P81: Assessing A $\beta$ clearance aided by mass spectrometry**

*Silje TORSETNES (1, 2), Marianne WETTERGREEN (2, 1), Erik CHRISTENSEN (3), Tormod FLADBY (1, 4) - (1)Department of Neurology, Akershus University Hospital, Norway, (2)Clinical Molecular Biology (EpiGen), Medical Division, Akershus University Hospital and University of Oslo, Norway, (3)PreDiagnostics AS, Norway, (4)Institute of Clinical Medicine, Campus Ahus, University of Oslo, Norway*

### **P82: A new blood-based biomarker of A $\beta$ clearance – the monocyte A $\beta$ mid-domain assay**

*Marianne WETTERGREEN (1, 2), Silje B TORSETNES (1), Berglind GISLADOTTIR (1), Erik CHRISTENSEN (3), Tormod FLADBY (1, 4) - (1)Department of Neurology, Akershus University Hospital, Norway, (2)Clinical Molecular Biology (EpiGen), Medical Division, Akershus University Hospital and University of Oslo, Norway, (3)Pre Diagnostics AS, Norway, (4)Institute of Clinical Medicine, Campus Ahus, University of Oslo, Norway*

**P83: Design of an Alzheimer's Disease Specific SNP Array for Driving Polygenic Risk Scoring Algorithms**

*Richard PITHER (1), Alex GIBSON (1), Paula DAUNT (1), Greg DAVIDSON (2), Olusegun OSHOTA (1), Julie WILLIAMS (3), Valentina ESCOTT-PRICE (3), Rebecca SIMS (3), Eftychia BELLOU (3), John HARDY (4), Maryam SHOAI (4), Zsuzsanna NAGY (5) - (1)Cytox Ltd, United Kingdom, (2)Ledcourt Associates, United Kingdom, (3)University of Cardiff, United Kingdom, (4)University College London, United Kingdom, (5)University of Birmingham, United Kingdom*

**P84: Performance of a high-throughput plasma amyloid assay for diagnosis of Alzheimer's disease**

*Oliver PETERS (1), Insa FEINKOHL (2), Carola SCHIPKE (3), Jochen KRUPPA (1), Georg WINTERER (1), Tobias PISCHON (2), Isabella HEUSER (1) - (1)Charité, Germany, (2)MDC, Germany, (3)Predemtec, Germany*

**P85: Misfolding of A $\beta$  as precise plasma structure biomarker for preclinical Alzheimer's**

*Klaus GERWERT (1, 2) - (1)Ruhr University Bochum, Center for Protein Diagnostics (ProDi), Biospectroscopy, Germany, (2)Ruhr University Bochum, Faculty of Biology and Biotechnology, Department of Biophysics, Germany*

**P86: Identifying healthy elderly subjects with Alzheimer pathology more efficiently for clinical trial participation**

*Samantha PRINS, Ahnjili ZHUPARRIS, Ellen 'T HART, Dimitrios ZIAGKOS, Geert Jan GROENEVELD - (1)CHDR, Netherlands*

**P87: Clinical utility of plasma amyloid beta measurements by immunoaffinity enrichment and LC-MS/MS.**

*Shunsuke WATANABE (1), Takuya IINO (1), Kazuto YAMASHITA (1), Eiya TAMADA (1), Takehiro HASEGAWA (1), Kazuya MATSUMOTO (1), Shigeki IWANAGA (1), Amane HARADA (1), Kouzou SUTO (1), Hiroyuki AMINO (2), Mitsuhiro INO (2), Takehiko MIYAGAWA (2), Tomokazu YOSHIDA (1) - (1)Sysmex Corporation, Japan, (2)Eisai Co. Ltd, Japan*

**P88: RetiSpec Technology used for Patient Recruitment**

*Stephen THEIN (1), Jamie JIRIK (2) - (1)Medical Director, United States, (2)Recruitment & Marketing Manager, United States*

**P89: Amyloid-targeting, Blood-based Biomarker of Alzheimer's disease: Staging and Classification**

*Sangyun KIM (1), Young Chul YOUN (2) - (1)Seoul National University Bundang H, Korea, Republic of, (2)ChungAng University Hospital, Korea, Republic of*

**P90: Gut Microbiota and Response to Blarcamesine (ANAVEX2- 73) in Alzheimer's Disease Patients: Abundance of Lachnospiraceae and Enterobacteriaceae Families as Potential Biomarker of Response from a 2-Year Study Interim Clinical Data Analysis using KEM Artific**

*Mohammad AFSHAR (1), Coralie WILLIAMS (1), Frederic PARMENTIER (1), Adrien ETCHETO (1), Christopher MISSLING (2) - (1)Ariana Pharma, France, (2)Anavex, United States*

**P91: Plasma neurofilament light is a marker of incident cognitive decline associated with Mild Behavioral Impairment – lessons for clinical trial recruitment**

*Zahinoor ISMAIL, James NAUDE, Sascha GILL, Sophie HU, Alexander MCGIRR, Nils FORKERT, Oury MONCHI, Peter STYS, Eric SMITH - (1)University of Calgary, Canada*

**P92: APOE-ε4 carrier identification; results from the Generation Program at Glasgow Memory Clinic**

*Kirsty HENDRY, Jennifer LYNCH, Susan WILLIAMSON, Emma LEE, Lorna WALLACE, Alison CRANMER, Laura MAIN, Fraser INGLIS - (1)Glasgow Memory Clinic, United Kingdom*

**P93: The Generation Program Alzheimer's Disease prevention clinical trials - Final results of recruitment strategy for APOE4 carriers at Glasgow Memory Clinic**

*Kirsty HENDRY, Jennifer LYNCH, Susan WILLIAMSON, Emma LEE, Lorna WALLACE, Alison CRANMER, Laura MAIN, Fraser INGLIS - (1)Glasgow Memory Clinic, United Kingdom*

**P94: Association of APOE e2 Genotype with Neuroprotection in Alzheimer's and Non-Alzheimer's Neuropathologies: A Transdiagnostic Study of 1557 Brains in the NACC Version 10 Database**

*Terry GOLDBERG - (1)Columbia University Medical Center, United States*

**P95: Synchronized Cell Cycle Gene Expression Test for Alzheimer's Disease**

*Florin CHIRILA, Daniel ALKON - (1)NeuroDiagnostics LLC, United States*

**P96: Soluble TREM2 (Triggering Receptor Expressed on Myeloid cells 2) as a new blood based biomarker in Alzheimer's disease**

*Jae-Hong LEE (1), Eun-Hye LEE (2, 3), Hyung-Ji KIM (1), Seong-Ho KOH (2, 3), So-Hee PARK (4) - (1)Department of Neurology, University of Ulsan College of Medicine, Asan Medical Center, Korea, Republic of, (2)Department of Neurology, Hanyang University College of Medicine, Korea, Republic of, (3)Department of Translational Medicine, Hanyang University Graduate School of Biomedical Science & Engineering, Korea, Republic of, (4)Seongnam Center of Senior Health, Korea, Republic of*

**P97: Neuroinflammation genomic markers in genome-wide association study of Parkinson's disease**

*Sun Ju CHUNG (1), Choi NARI (1), Kim JUYEON (2), Kim KIJU (1), Kim MI-JUNG (3), Ryu HO-SUNG (4), Jo SUNGYANG (1), Park KYE WON (1) - (1)Asan Medical Center, Korea, Republic of, (2)Metro hospital, United States, (3)Bobath Memorial Hospital, Korea, Republic of, (4)Kyungpook National University Hospital, Korea, Republic of*

**P98: Elevated plasma soluble TREM2 in elderly individuals with high neocortical Amyloid-β load**

*Prita Riana ASIH (1, 2), Hong WANG (3), Pratihtha CHATTERJEE (1), Kathryn GOOZEE (2, 4), Ralph MARTINS (1, 2, 5) - (1)Macquarie University, Australia, (2)KaRa Institute of Neurological Disease, Australia, (3)Eli Lilly and Company, United States, (4)Anglicare, Australia, (5)Edith Cowan University, Australia*

**P99: Levels of gut microbiota potentially regulated through anti-inflammatory effect identified as associated to response to Blarcamesine (ANAVEX2-73) in Alzheimer's disease patients in 2-year Interim clinical data using KEM Artificial Intelligence analysis**

*Mohammad AFSHAR (1), Coralie WILLIAMS (1), Frederic PARMENTIER (1), Adrien ETCHETO (1), Christopher MISSLING (2) - (1)Ariana Pharma, France, (2)ANAVEX, United States*

**P100: Use of translational electroencephalography biomarker in early phase clinical studies for Alzheimer's disease.**

*Svetlana SEMENOVA (1), Lovingly PARK (1), Lev GERTSIK (2), Stanford JHEE (1) - (1)PAREXEL International, United States, (2)California Clinical Trials Medical Group, United States*

**P101: Neurophysiological biomarkers parallel glucose hypometabolism in Alzheimer's disease patients**

*Shani WANINGER (1), Emily ANGELOPOLOUS (1), Chris BERKA (1), Amir MEGHDADI (1), David SALAT (2), Ajay VERMA (3) - (1)Advanced Brain Monitoring, United States, (2)MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging, United States, (3)Biogen, United States*

**P102: Blood-based Biomarkers for Predicting Neurological Response in Patients with Alzheimer's disease**

*Aari MISHRA (1), Gerson HERNANDEZ (1), Claudia LOPEZ (1), Baran AYDOGAN (2), Yonggang SHI (2), Meng LAW (2), Lon SCHNEIDER (3), Roberta BRINTON (1) - (1)Center for Innovation in Brain Science, University of Arizona, United States, (2)Stevens Neuroimaging and Informatics Institute, Keck School of Medicine of USC, United States, (3)Psychiatry, Keck School of Medicine of USC, United States*

**P103: Inflammation markers predicting longitudinal clinical progression in early Alzheimer's disease**

*Jagan PILLAI, James BENA, Lynn BEKRIS, Stephen RAO, Bruce LAMB, James LEVERENZ - (1)Cleveland Clinic, United States*

**P104: Predicting cognitive decline in late middle life using neuronal-derived extracellular vesicles**

*Erden EREN (1), Jack HUNT (2), Nick VOGT (2), Sterling JOHNSON (2), Barbara BENDLIN (2), Dimitrios KAPOGIANNIS (1) - (1)Laboratory of Clinical Investigations, Intramural Research Program, National Institute on Aging, United States, (2)Wisconsin Alzheimer's Disease Research Center, University of Wisconsin, United States*

**P105: Combining Sex, APOE Genotype, and Mitochondrial Genetic Variance As Predictive Responder Identifier to Regenerative Therapeutic Allopregnanolone for Alzheimer's Disease**

*Yiwei WANG (1), Christine SOLINSKY (2), Gerson HERNANDEZ (1), Lon SCHNEIDER (2), Roberta BRINTON (2) - (1)University of Arizona, United States, (2)University of Southern California, United States*

**P106: Soluble TREM2 and Other Immune Factors in Young Adult Down Syndrome**

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**P107: Identifying subsets of patients with mild cognitive impairment and cardiovascular risk factors based on differential expression of angiogenic and inflammatory biomarkers**

*Zachary WINDER (1), Tiffany L SUDDUTH (2), David FARDO (3), Qiang CHENG (4), Larry B GOLDSTEIN (5), Peter T NELSON (2), Fred A SCHMITT (2), Greg A JICHA (2), Donna M WILCOCK (2) - (1)University of Kentucky Physiology Department, United States, (2)University of Kentucky Sanders-Brown Center on Aging, United States, (3)University of Kentucky Biostatistics Department, United States, (4)University of Kentucky Division of Biomedical Informatics, United States, (5)University of Kentucky Neurology Department, United States*

**P108: A conformation variant of p53 as a promising blood-biomarker for Alzheimer's diagnosis at pre-clinical and prodromal stages of the disease.**

*Daniela UBERTI (1, 2), Giulia ABATE (1), Marika VEZZOLI (1), Antonio GUAITA (3), Chris FOWLER (4, 5), Maurizio MEMO (1, 2) - (1)University of Brescia, Italy, (2)Diadem s.r.l., Italy, (3)Golgi Cenci Foundation, Italy, (4)The Florey Institute, Australia, (5)The University of Melbourne, Australia*

**P109: Neural injury biomarker profiles from the EPOCH Phase 3 trial of verubecestat in patients with mild-to-moderate Alzheimer's disease**

*Matthew E. KENNEDY (1), Cyrille SUR (2), James KOST (3), Debra POST (4), Christine FURTEK (5), Julie STROMSWOLD (5), Nicole DUPRE (5), Ryan CLARK (1), Michael F. EGAN (4) - (1)Department of Neuroscience, Merck & Co., Inc., United States, (2)Department of Translational Biomarkers, Merck & Co., Inc., United States, (3)Department of Statistics, Merck & Co., Inc., United States, (4)Department of Clinical Research, Merck & Co., Inc., United States, (5)Department of Clinical Operations, Merck & Co., Inc., United States*

**P110: A Machine Learning Approach with Biomarkers for Classification of Mixed Dementia Patients**

*Gary ROSENBERG (1), Rajikha RAJA (2), Jillian PRESTOPNIK (1), Arvind CAPRIHAN (2) - (1)University of New Mexico, United States, (2)MIND Research Network, United States*

**P111: Blood Amyloid- $\beta$  oligomerization associated with brain volume reduction in the form of Alzheimer's disease**

*Young Chul YOUN (1), Sangyun KIM (2), Sungmin KANG (3), Seong Soo A. AN (4) - (1)Dept. of Neurology, Chung-Ang Univ. Hospital, Korea, Republic of, (2)Dept. of Neurology, Seoul National University College of Medicine, Seoul National University Bundang Hospital, Korea, Republic of, (3)Research and Development, PeopleBio Inc., Korea, Republic of, (4)Dept. of Bionanotechnology, Gachon University, Korea, Republic of*

**P112: Stability of plasma amyloid- $\beta$  1-40, amyloid- $\beta$  1-42 and total Tau protein over repeated freeze/thaw cycles**

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**P113: Clinical characteristics and amyloid accumulation in the brain and the blood in amnesic subjective cognitive decline**

*Yang DONG WON (1), Hong YUN JUNG (1), Ho SEONGHEE (1), Jeong JEE HYANG (2), Park KEE HYUNG (3), Kim SANGYUN (4), Wang MIN JEONG (4), Choi SEONG HYE (5), Han SEUNGHYUN (6) - (1)Department of Neurology, Catholic University of Korea, Korea, Republic of, (2)Department of Neurology, Ewha Womans University Mokdong Hospital, Ewha Womans University School of Medicine, Korea, Republic of, (3)Department of Neurology, Gachon University Gil Hospital,, Korea, Republic of, (4)Department of Neurology, Seoul National University College of Medicine, Seoul National University Bundang Hospital, Korea, Republic of, (5)Department of Neurology, Inha University School of Medicine, Korea, Republic of, (6)ROWAN Inc., Korea, Republic of*

**P114: Development of Alzheimer's disease Biomarker using A $\beta$ \*56 Soluble Oligomer in Human Nasal Secretions**

*Hyun-Kook LIM (1), In-Ho PAIK (2) - (1)Department of Psychiatry, Catholic University of Korea, Korea, Republic of, (2)Department of Psychiatry, Geyo Hospital, Korea, Republic of*

**P115: Qualification of the Fujirebio Lumipulse G  $\beta$  -Amyloid(1-40),  $\beta$  -Amyloid(1-42), Total Tau, and pTau (181) Assays for Measurements in Clinical Study Protocols**

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**P116: Correlation between cognition and plasma noradrenaline level in Alzheimer's disease: a potential new blood marker of disease evolution**

*Laure-Elise PILLET (1), Camille TACCOLA (1), Justine COTONI (1), Hervé THIRIEZ (2), Karine ANDRÉ (3), Romain VERPILLOT (1) - (1)Alzohis, France, (2)HEC, France, (3)Statitec, France*

**P117: Longitudinal trajectories of Alzheimer's ATN biomarkers in nondemented elderly adults**

*Jin-Tai YU (1), Meng-Shan TAN (2), Ji XI (3), Jie-Qiong LI (2), Qiang DONG (1), Chuan-Tao ZUO (1), Lan TAN (2), John SUCKLING (4) - (1)Huashan Hospital, Shanghai Medical College, Fudan University, China, (2)Qingdao Municipal Hospital, Qingdao University, China, (3)Dalian Medical University, China, (4)University of Cambridge, United Kingdom*

**P118: Prevalence and longitudinal clinical outcomes of Alzheimer's ATN biomarker profiles: a longitudinal study**

*Yu JIN-TAI (1), Li JIE-QIONG (2), Suckling JOHN (3), Feng LEI (4), Pan AN (5), Wang YAN-JIANG (6), Dong QIANG (1), Tan LAN (2), Mok VINCENT (7), Aisen PAUL (8), Weiner MICHAEL (9) - (1)Shanghai Medical College, Fudan University, China, (2)Qingdao Municipal Hospital, Qingdao University, China, (3)University of Cambridge, United Kingdom, (4)Yong Loo Lin School of Medicine, National University of Singapore, Singapore, (5)Tongji Medical College, Huazhong University of Science and Technology, China, (6)Third Military Medical University, China, (7)Faculty of Medicine, The Chinese University of Hong Kong, China, (8)Alzheimer's Therapeutic Research Institute, University of Southern California, United States, (9)University of California, San Francisco, United States*

**P119: Differential effects of the interaction between the education and APOE ε4 allele on amyloid-beta retention and memory performances in cognitively normal older adults and Alzheimer's disease patients**

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## **THEME 5: Clinical trials: cognitive and functional endpoints**

**P120: Development of social cognition enhancement training program for amnesic mild cognitive impairment and early dementia of Alzheimer's type patients, based on facial emotion recognition pattern analysis**

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**P121: Using a Global Statistical Test as an Overall Measure of Alzheimer's**

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**P122: MemTrax – a powerful, efficient outcome measure for clinical trials: On-line at: [www.MemTrax.com](http://www.MemTrax.com)**

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**P123: Leveraging Sex Differences in Cognition and Alzheimer's to Optimize Clinical Trial Design**

*Sarah BANKS, Benjamin SHIFFLETT, Erin SUNDERMANN, Steve EDLAND - (1)University of California, San Diego, United States*

**P124: The OLFACT Test Battery (OTB) predicts Alzheimer's disease**

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**P125: Identifying What Matters to People with and at Risk for Alzheimer's Disease and Their Care Partners: Concept Elicitation and Item Development**

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**P126: Analysis of the Rates and Types of Errors on Paper Administration of the Neuropsychiatric Inventory**

*Sarah KARAS, Todd FEASTER, Bomi HONG - (1)Signant Health, United States*

**P127: Analysis of the Rates and Types of Errors on the Cohen-Mansfield Agitation Inventory in Agitation in Dementia Clinical Trials**

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**P128: Functional activity of the muscarinic positive allosteric modulator VU319 during a Phase 1 Single Ascending Dose study**

*Alexander C. CONLEY (1), Alexandra P. KEY (1, 2), Jennifer U. BLACKFORD (1), Jerri M. ROOK (3), P. Jeffrey CONN (3), Craig W. LINDSLEY (3), Carrie K. JONES (3), Paul A. NEWHOUSE (1, 4) - (1)Center for Cognitive Medicine, Vanderbilt University Medical Center, United States, (2)Vanderbilt Kennedy Center, Vanderbilt University Medical Center, United States, (3)Vanderbilt Center for Neuroscience Drug Discovery, Vanderbilt University, United States, (4)Geriatric Research, Education, and Clinical Center, Veterans Affairs Tennessee Valley Health System, United States*

**P129: LIFE-DSR Study: A 3-year longitudinal observational cohort study**

*William MOBLEY (1), James HENDRIX (2), Anna BURKE (3), George CAPONE (4), Brian CHICOINE (5), Alberto COSTA (6), Anna ESBENSEN (7), Sarah HART (8), Elizabeth HEAD (9), Priya KISHNANI (8), Florence LAI (10), Ira LOTT (9), Cesar OCHOA-LUBINOFF (11), Herminia Diana ROSAS (10), Tracie ROSSER (12), Stephanie SANTORO (10), Frederick SCHMITT (13), Stephanie SHERMAN (12), Brian SKOTKO (10), Amy TALBOY (12) - (1)UCSD, United States, (2)LumindIDSC, United States, (3)Barrow Neurological Institute, United States, (4)Kennedy Krieger Institute, United States, (5)Advocate Health, United States, (6)Case Western Reserve University, United States, (7)Cincinnati Children's Hospital, United States, (8)Duke University, United States, (9)UCI, United States, (10)Massachusetts General Hospital, United States, (11)Rush University Medical Center, United States, (12)Emory University, United States, (13)University of Kentucky, United States*

**P130: An observational study in real world daily clinical practice to evaluate the effect of the medical food Souvenaid on instrumental activities of daily living in people with mild Alzheimer's Disease**

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**P131: Relationship between Delusion of Theft and Cognitive Functions in Patients with Mild Alzheimer's Disease**

*Won-Myong BAHK (1), Bo-Hyun YOON (2), Sang-Yeol LEE (3), Kwanghun LEE (4), Moon-Doo KIM (5), Beomwoo NAM (6), Se-Hoon SHIM (7), Dae Bo LEE (8), Hyun Kook LIM (1), Hae-Ran NA (1) - (1)Department of Psychiatry, College of Medicine, The Catholic University of Korea, Korea, Republic of, (2)Department of Psychiatry, Naju National Hospital, Korea, Republic of, (3)Department of Psychiatry, College of Medicine, Wonkwang University, Korea, Republic of, (4)Department of Psychiatry, School of Medicine, Dongguk University, Korea, Republic of, (5)Department of Psychiatry, School of Medicine, Jeju National Hospital, Korea, Republic of, (6)Department of Psychiatry, Konkuk University, Korea, Republic of, (7)Department of Psychiatry, College of Medicine, Soonchunhyang University, Korea, Republic of, (8)Department of psychiatry, Mirae Hospital, Korea, Republic of*

**P132: Comparing the Results of a Consensus Expert Diagnosis with Outcomes Based on the Syndrom-Kurztest (SKT), a Short Cognitive Performance Test: Indications for Convergent Validity**

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**P133: Comparisons between ADAS-Cog 11 and CDR System measures in the assessment of cognitive dysfunction in mild to moderate Alzheimer's disease.**

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**P134: Precision Functional Assessment for Alzheimer's Disease (PFA-AD): A pilot study framework.**

*Gerson HERNANDEZ (1), Claudia LOPEZ (1), Tran GISLER (2), Dana WERSHINER (2), Vicki SEYFERT-MARGOLIS (2), Roberta BRINTON (1) - (1)CIBS, University of Arizona, United States, (2)Myownmed, United States*

**P135: Effects of Dietary Flaxseed on Memory and Cognition**

*Benedict ALBENSI, Claudia CORTES-PEREZ, Aida ADLIMOGHADDAM - (1)St Boniface Hospital Research, Canada*

**P136: Neuropsychological correlates of Alzheimer disease biomarkers**

*Matthias RIEPE, Claudia LANZA, Karolina SEJUNAITE - (1)Ulm University, Germany*

**P137: Effects of Supplement Containing Anserine on Cognitive Functions in People with Mild Cognitive Impairment: A Randomized, Double-Blind, Placebo-Controlled Trial**

*Tatsuhiro HISATSUNE (1), Nobutaka MASUOKA (1), Shigenobu SHIOTANI (2), Nobuya YANAI (2), Kenichiro SATO (2) - (1)The University of Tokyo, Japan, (2)Tokai Bussan Co., Ltd, Japan*

**P138: An observational study in real world daily clinical practice to evaluate the effect of a medical food on activities of daily living in people with early Alzheimer's Disease**

*Gijsbertus ZIERE (1), Vincent VANNESTE (2), Kees KALISVAART (3), Janneke DE WILDE (4), Megan HERBERT (4), Leo BOELAARTS (5), Sietske SIKKENS (6) - (1)1. Department of Geriatrics, Havenpolikliniek, Maasstad Ziekenhuis, Netherlands, (2)2. Franciscus Ziekenhuis, Netherlands, (3)3. Department of Geriatrics, Spaarne Gasthuis, Netherlands, (4)4. Danone Nutricia Research, Nutricia Advanced Medical Nutrition, Netherlands, (5)5. Department of Geriatric Medicine, Noordwest Hospital Group, Netherlands, (6)6. Alzheimer Center Amsterdam, Amsterdam University Medical Centers (Location VUmc), Netherlands*

**P139: Sex Differences in Predictors of Cognitive and Functional Outcomes in Patients with Alzheimer's Disease**

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**P140: The ADAS-Cog-Exec: A Novel Cognitive Composite Outcome to Assess Therapeutic Effects of Exercise in the EXERT Trial for Adults with MCI**

*Diane JACOBS (1), Ronald THOMAS (1), David SALMON (1), Shelia JIN (1), Howard FELDMAN (1), Carl COTMAN (2), Laura BAKER (3) - (1)Alzheimer's Disease Cooperative Study, UC San Diego, United States, (2)Institute for Memory Impairments and Neurological Disorders, UC Irvine, United States, (3)Wake Forest School of Medicine, United States*

**P141: A multicenter, open-label, 24-week follow-up study for efficacy on cognitive function of donepezil in Binswanger-type subcortical vascular dementia**

*Jay KWON (1), Kyungsoo LEE (2), Nack-Cheon CHOI (2) - (1)Changwon Fatima Hospital, Korea, Republic of, (2)Samsung Medical Center, Korea, Republic of*

**P142: Traumatic Encephalopathy Assessment Measure: a new outcome tool for Chronic Traumatic Encephalopathy syndrome trials**

*Charles BERNICK (1), Guogen SHAN (2), Lauren BENNETT (3), Jeffrey CUMMINGS (3) - (1)University of Washington, United States, (2)UNLV, United States, (3)Cleveland Clinic, United States*

**P143: The effect of multi-tasking exercise intervention on cognitive function in elderly and cognitive impairment patients: a pilot multicenter study**

*Kyung Won PARK (1, 2), Hee Jae LEE (3), Jae Woo KIM (1) - (1)Dong-A University College of Medicine, Korea, Republic of, (2)Busan Metropolitan Dementia Center, (3)Busan Metropolitan Dementia Center, Korea, Republic of*

**P144: Validation of the SKT short cognitive performance test for the detection of early cognitive decline in English-speaking countries**

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## **THEME 6 : Cognitive assessment and clinical trials**

**P145: Estimating subject-specific variance in unsupervised, high-frequency, mobile app based cognitive testing: feasibility of using mobile apps for monitoring cognitive safety**

*Emrah DÜZEL (1), David BERRON (2), Michael T. HENEKA (1), Anja SCHNEIDER (1), Stefan J. TEIPEL (1), Michael WAGNER (1), Frank JESSEN (1) - (1)German Center for Neurodegenerative Diseases, Germany, (2)Clinical Memory Research Unit, Lund University, Sweden*

**P146: Inter-Site Variability and Standardization of AD and MCI Diagnoses**

*Nicolas PANNETIER, Thomas LIEBMANN, Elham KHOSRAVI, Pavan KRISHNAMURTHY, Padideh KAMALI-ZARE, Kaveh VEJDANI - (1)Darmiyan, Inc, United States*

**P147: Frequency of and Factors Associated with Environmental Distraction During Unsupervised Digital Cognitive Assessment**

*Nicholas BOTT (1, 2), John ANDERSON (2), Doug NEWTON (2), Aidan HALL (2), Jordan GLENN (2), Erica MADERO (2), Nami FUSEYA (2) - (1)Stanford University School of Medicine, United States, (2)Neurotrack Technologies, Inc., United States*

**P148: Evaluating a method for automatic and objective scoring of verbal responses for the Montreal Cognitive Assessment (MoCA)**

*Liam KAUFMAN, Aparna BALAGOPALAN, Jekaterina NOVIKOVA, Fariya MOSTAFA - (1)Winterlight Labs, Canada*

**P149: Staging Early Alzheimer's Disease Using the Alzheimer's Disease Composite Score (ADCOMS)**

*Amir Abbas TAHAMI MONFARED (1), Katherine STULL (2), Quanwu ZHANG (1) - (1)Eisai Inc., United States, (2)RTI Health Solutions, United States*

**P150: Altoida Neuro Motor Index (NMI): Digital Biomarkers for Rapid and Reliable Cognitive and Functional Assessment in Alzheimer's Disease Clinical Trials**

*Ioannis TARNANAS (1), Irene MEIER (1), Maximilian BÜGLER (1), Robbert HARMS (1), Claudio BABILONI (2), Mircea BALASA (3), Giovanni FRISONI (4), Michaela RAMPINI (4), Robert WHELAN (5), Vlamos PANAYIOTIS (6) - (1)Altoida, United States, (2)Sapienza University of Rome, Italy, (3)Hospital Clinic de Barcelona, Spain, (4)IRCCS S Giovanni di Dio-Fatebenefratelli, Italy, (5)Trinity Inst. of Neurosciences, Ireland, (6)Ionian University, Greece*

**P151: Effects of Dementia-Friendly Community Development on Changes in Dementia Awareness and Attitude**

*Kwanghun LEE (1), Bahk WON-MYONG (2), Yoon BO-HYUN (3), Lee SANG-YEOL (4), Kim MOON-DOO (5), Nam BEOMWOO (6), Shim SE-HOON (7) - (1)Department of Psychiatry, School of Medicine, Dongguk University, Korea, Republic of, (2)Department of Psychiatry, College of Medicine, The*

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**P152: Early development of a unified, speech and language composite to assess clinical severity of Frontotemporal Lobar Degeneration (FTLD)**

*William SIMPSON (1), Aparna BALAGOPALAN (2), Liam KAUFMAN (2), Jekaterina NOVIKOVA (2), Omer SIDDIQUI (3), Robert PAUL (3), Mike WARD (3) - (1)McMaster University, Canada, (2)Winterlight Labs, Canada, (3)Alector, United States*

**P153: The Comparison of Cognitive Inclusion Scores Between Subjects Screened in the Morning versus Screened in the Afternoon**

*Katherine KRUCZEK, Pamela VOCCIA - (1)Bioclinica Research, United States*

**P154: Underlying Potential Mechanism of Anti-Alzheimer's Disease Using Maysin Derivative Isoorientin 2-O-a-L-rhamnoside using in Vitro Assay System**

*Grace LENA, Hong-Duck KIM - (1)New York Medical College, United States*

**P155: Evaluation of Proper Names in Semantic Memory Tasks with Subjects Presenting for Alzheimer's Dementia Research Trials**

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**P156: Gender bias in clinical trial recruitment in AD: an analysis by Fundació ACE**

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**P157: A Look at Practice Effect for Word List Recall in Subjects Presenting for Clinical Trials in Alzheimer's Disease.**

*Katherine KRUCZEK, Pamela VOCCIA, Michelle COHEN - (1)Bioclinica Research, United States*

**P158: Using Hierarchical Bayesian Cognitive Processing and Latent-Mixture Models to Predict Impending Cognitive Decline with Common Memory Tests**

*Michael LEE (1), Jason BOCK (2), William SHANKLE (2, 1, 3), Junko HARA (2, 3), Dennis FORTIER (2), Tushar MANGROLA (2), Ronald PETERSEN (4) - (1)Dept. of Cognitive Sciences, University of California at Irvine, United States, (2)Medical Care Corporation, United States, (3)Pickup Family Neurosciences Institute, Hoag Memorial Hospital, United States, (4)Mayo Clinic, United States*

**P159: Changes in semantic memory due to cognitive impairment in Alzheimer's patients**

*Holly WESTFALL (1), Jason BOCK (2), Tushar MANGROLA (2), Michael LEE (1) - (1)University of California, Irvine, United States, (2)Medical Care Corporation, United States*

**P160: Progress & Challenges in the Development of Electronic Instruments to Predict and Monitor Cognitive Decline**

*Taylor HOWELL (1), Rachel NOSHENY (1), Scott MACKIN (1), Diana TRURAN (1), Erik ROBERSON (2), Richard KENNEDY (2), Martin ROY (2), Daniel MARSON (2), Adam GERSTENECKER (2), John MORRIS (3), Virginia BUCKLES (3), Krista MOULDER (3), Chengjie XIONG (3), Yan LI (3), Andrew ASCHENBRENNER (3), Dan MUNGAS (4), Michael WEINER (1) - (1)University of California, San Francisco, United States, (2)University of Alabama - Birmingham - Birmingham (United States), United States, (3)Washington University at St. Louis, United States, (4)University of California, Davis, United States*

**P161: Elucidating the risk factors for disease progression to dementia in patients with amyloid negative amnesic mild cognitive impairment**

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**P162: Strategic Memory Alzheimer's Rehabilitation Training (SMART): Cognitive Protection and Intervention for Amnesic-type Mild Cognitive Impairment (MCI)**

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**P163: Comparing the Standard and Electronic Versions of the Alzheimer's Disease Assessment Scale – Cognitive Subscale: A Validation Study**

*Diana MICHALCZUK (1), Todd SOLOMON (2, 3), Jordan BARBONE (2), Todd FEASTER (2), David MILLER (2), Guy DEBROS (1), Cynthia MURPHY (1) - (1)The Memory Clinic, United States, (2)Signant Health, United States, (3)Boston University School of Medicine, United States*

**P164: Asian and Non-Asian Countries Screen Subjects with Similar MMSE Scores to the Elenbecestat MissionAD Global Phase 3 Studies in Early Alzheimer's disease**

*Jennifer MURPHY (1), Thomas DOHERTY (2), Michelle GEE (3), Satoshi ITO (4), Kanekiyo MICHIO (4), Bruce ALBALA (5) - (1)Syneos Health, United States, (2)Syneos Health, United Kingdom, (3)Eisai, United Kingdom, (4)Eisai, Japan, (5)Eisai, United States*

**P165: Comparing a speech-based digital biomarker to the Montreal Cognitive Assessment (MoCA) for tracking cognition over a 6 month period in a naturalistic cohort of older adults**

*William SIMPSON (1, 2), Aparna BALAGOPALAN (2), Liam KAUFMAN (2), Maria YANCHEVA (2) - (1)McMaster University, Canada, (2)Winterlight Labs, Canada*

**P166: Discrimination of Alzheimer's dementia from other dementia with three different dementia screening questionnaires**

*Seonghee HO (1), Dong Won YANG (1), Ahro KIM (1), Dong Woo LEE (2), Hyun Jeong HAN (3), Jee Hyang JEONG (4), Jun Hong LEE (5), Jun-Young LEE (6), Kee Hyung PARK (7), Kyung Won PARK (8), Sangyun KIM (9), Seong Hye CHOI (10), Young Chul YOUN (11) - (1)The Catholic University of Korea, Seoul St. Mary's Hospital, Korea, Republic of, (2)Inje University Sanggye Paik Hospital, Korea, Republic of, (3)Myongji Hospital, Korea, Republic of, (4)Ewha Womans University Mokdong Hospital, Ewha*

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**P167: Novel Digitalized Markers for Screening, Cognitive Assessments and Disease Trajectory Tracking in Clinical trials**

*Alexandra KÖNIG (1), Nicklas LINZ (2), Johannes TRÖGER (2), Rachid GUERCHOUCHE (3), Zeghari RADIA (4), Ramakers INEZ (5), Aalten PAULINE (5), Robert PHILIPPE (4) - (1)INRIA, Cobtek (Cognition, Behaviour, Technology) Lab, University Côte d'azur, France, (2)German Research Center for Artificial Intelligence (DFKI), Germany, (3)INRIA, France, (4)Cobtek (Cognition, Behaviour, Technology) Lab, University Côte d'azur, France, (5)Alzheimer Limburg Center, Maastricht University, Netherlands*

**P168: Tracking functional decline in Mild Cognitive Impairment**

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**P169: Cognitive functioning on the RBANS and APOE status**

*Kevin DUFF, Kayla SUHRIE, Sariah PORTER, Ava DIXON, Dustin HAMMERS, John HOFFMAN - (1)University of Utah, United States*

**P170: The predictive validity of the SKT short cognitive performance test for the detection of early cognitive decline**

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**P171: The Frequency Of Orthostatic Hypotension In Older Patients With Alzheimer Disease Is Similar In Those With Lewy Body Dementia**

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**P172: Neuropsychological, Psychiatric, and Functional Correlates of Clinical Trial Enrollment**

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## THEME 7: Behavioral disorders and clinical trials

### **P173: Relationship between awareness disturbance and behavioural disorders in Alzheimer disease**

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### **P174: Very common in CADASIL patients : depressive disorder, cognitive impairment, and decreased quality of life.**

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### **P175: The Effect of Dance and Movement Therapy on the Cognitive Function, Activity of Daily Living, Anxiety and Depression and Quality of Life in Patients with Alzheimer's dementia : prospective controlled study**

*Sang-Yeol LEE (1), Won-Myong BAHK (2), Bo-Hyun YOON (3), Kwanghun LEE (1), Moon-Doo KIM (1), Beomwoo NAM (1), Se-Hoon SHIM (1), Dae Bo LEE (3) - (1)Professor, Korea, Republic of, (2)professor, Korea, Republic of, (3)Dr, Korea, Republic of*

### **P176: Searching for the best outcome for clinical trials for Agitation symptoms in AD: CMAI vs NPI-C. Results from the A3C study**

*Maria SOTO MARTIN (1), Adelaide DE MAULEON (1), Zahinoor ISMAIL (2), Jeannie Marie LEOUTSAKOS (3), David MILLER (4), Paul ROSENBERG (3), Sandrine ANDRIEU (1), Bruno VELLAS (1), Constantine LYKETSOS (3) - (1)Alzheimer Disease Clinical and Research Center. Gerontopole. Toulouse University Hospital, France, (2)Hotchkiss Brain Institute and O'Brien Institute for Public Health. University of Calgary, Canada, (3)Department of Psychiatry and Behavioral Sciences, Johns Hopkins Bayview. Johns Hopkins University, United States, (4)Signant Healt, United States*

### **P177: Measuring apathy in Alzheimer's disease in the Apathy in Dementia Methylphenidate Trial 2 (ADMET 2): a comparison of instruments**

*Krista LANCTOT (1), Roberta SCHERER (2), Abby LI (3), Mahwesh SALEEM (3), Danielle VIEIRA (3), Paul ROSENBERG (2), Nathan HERRMANN (4), Alan LERNER (5), Prasad PADALA (6), Olga BRAWMAN-MINTZER (7), Christopher VAN DYCK (8), Anton PORSTEINSSON (9), Suzanne CRAFT (10), Allan LEVEY (11), William BURKE (12), Jacobo MINTZER (13) - (1)Sunnybrook Research Institute, Canada, (2)Johns Hopkins University, United States, (3)Sunnybrook Resesarch Institute, Canada, (4)Sunnybrook Health Sciences Centre, Canada, (5)Case Western Reserve University, United States, (6)University of Arkansas for Medical Sciences, United States, (7)Medical University of South Carolina, United States, (8)Yale*

University, United States, (9)University of Rochester, United States, (10)Wake Forest School of Medicine, United States, (11)Emory University, United States, (12)Banner Alzheimer's Institute, United States, (13)Roper St. Francis Healthcare, United States

**P178: Behavioral symptoms in Alzheimer's disease: Results of cholinergic loading therapies with a cholinesterase inhibitor and the cholinergic precursor choline alfoscerate.**

Enea TRAINI (1), Anna CAROTENUTO (2, 3), Angiola FASANARO (3), Valentino MANZO (3), Francesco AMENTA (1) - (1)Clinical Research, Telemedicine and Telepharmacy Centre, University of Camerino, Italy, (2)Clinical Research, Telemedicine and Telepharmacy Centre, University of Camerino,, Italy, (3)Neurology Unit, National Hospital, "A. Cardarelli", Italy

**P179: Empirically-defined Neuropsychiatric Syndromes of Dementia**

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**P180: REIMAGINE-AD: Safety and efficacy of vafidemstat for the treatment of Alzheimer's disease related aggression**

Michael ROPACKI (1), Merce BOADA (2), Sonia GUTIERREZ (1), Roger BULLOCK (1), Carlos BUESA (1) - (1)Oryzon Genomics SA, Spain, (2)Fundació ACE. Barcelona Alzheimer Treatment and Research Center, UIC-Barcelona, Spain

**P181: Sex Differences in Subjective Age-Associated Changes in Sleep: A Prospective Elderly Cohort Study**

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## Theme 8: Health economics and clinical trials

**P182: The Effects of physical, intellectual, social and healthy diet activities to the instrumental activities of daily living and caregiver burden of the patients with minor or major neurocognitive disorders.**

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## Theme 9: Epidemiology and clinical trials

**P183: Cognitive and functional progression along the continuum from MCI to Alzheimer's disease: a latent class analysis using the NACC data set**

Keith BETTS (1), Julie MOUCHET (2), Raluca IONESCU-ITTU (3), Lesley BUTLER (2), Paul DELMAR (2), Mihaela GEORGIEVA (1), Thomas KULALERT (4), Urvi DESAI (1) - (1)Analysis Group, Inc., United States, (2)F. Hoffmann-La Roche Ltd, Switzerland, (3)Groupe d'Analyse, Canada, (4)Analysis Group, Inc., United Kingdom

**P184: Tumor Necrosis Factor Blocking Agents Reduce Risk for Alzheimer's Disease in Patients with Co-morbid Rheumatoid Arthritis and Psoriasis**

Mark GURNEY (1), Mengshi ZHOU (2), Rong XU (2) - (1)Tetra Therapeutics, United States, (2)Case Western Reserve University, United States

**P185: Antiviral therapy reduces the risk of dementia in patients with herpes zoster: a propensity score-matched analysis**

Woon YOON (1), Seongman BAE (1), Sung-Cheol YUN (2), Min-Chul KIM (3), Sang-Oh LEE (1), Sang-Ho CHOI (1), Yang Soo KIM (1), Jun Hee WOO (1), Seong Yoon KIM (1), Sung-Han KIM (1) - (1)Asan Medical Center, Korea, Republic of, (2)Asan Medical Center - Seoul (Korea, Republic of), Korea, Republic of, (3)Chung-Ang University Hospital, Korea, Republic of

**P186: Effectiveness of the open screening programs in recruiting subjects to prodromal and mild Alzheimer's disease clinical trials**

Daniel WÓJCIK (1, 2), Katarzyna SZCZECZOWIAK (1), Marzena ZBOCH (1) - (1)Wroclaw Alzheimer's Center, Poland, (2)Division of Quality Services, Procedures and Medical Standards, Medical University in Lodz, Lodz, Poland, Poland

**P187: Transition of Prescription Pattern of Antidepressants in Parkinson's disease and Dementia patients; 2012-2015, South Korea**

Yoonah PARK - (1)Koshin university Gospel hospital, Korea, Republic of

**P188: Risk of stroke in patients with Alzheimer's disease**

Jun Hong LEE - (1)National Health Insurance Service Ilsan Hospital, Korea, Republic of

**P189: Potentially inappropriate medication of psychotropic drugs among elderly people with dementia**

Ricardo SALINAS-MARTINEZ, Rocio MORALES-DELGADO, Daniel Gerardo GAMEZ-TREVIÑO, Edgar JIMENEZ-ALARCON, Alfonso DE LA GARZA-VILLARREAL, David Alberto AGUILAR-MACIAS - (1)Geriatrics Unit Hospital Universitario "Dr Jose Eleuterio González" UANL, Mexico

## Theme 10: Animal models and clinical trials

**P190: Neuronal Pentraxin 2: Biomarker and Mechanism Across the Aging/Alzheimer's Spectrum**

Michela GALLAGHER, Audrey BRANCH, Rebecca HABERMAN - (1)Johns Hopkins University, United States

**P191: Isogenic iPSC model of CHRFAM7A effect on  $\alpha 7$  nicotinic acetylcholine receptor for preclinical high throughput screen**

Kinga SZIGETI (1), Ivanna IHNATOVYCH (1), Barbara BIRKAYA (1), Dinesh INDURTHI (1), Radhakrishnan GNANASAMBANDAM (1), Aya OUF (1), Norbert SULE (2), Lee CHAVES (1), Anthony AUERBACH (1) - (1)SUNY at Buffalo, United States, (2)Roswell Park Comprehensive Cancer Center, United States

**P192: Pharmacological profiles of anti-amyloid  $\beta$  aggregate-specific antibody KHK6640 both in vitro and in vivo including a novel clinically relevant rodent model of Alzheimer's disease**

Shinichi UCHIDA, Koji YAMADA, Takako HORITA, Nobuyuki SUZUKI, Yui SUZUKI, Kenichiro SUGIYAMA - (1)Kyowa Kirin Co., Ltd., Japan

**P193: The BUENA Study: A Phase 2A Clinical Trial To Test Safety and Efficacy of Montelukast Versafilm™ in Alzheimer's Patients**

Ludwig AIGNER (1), Johanna MICHAEL (1), Justin CONWAY (2), Frank PIETRANTONIO (2), Horst ZERBE (2), Nadine PAIEMENT (2) - (1)Paracelsus Medical University, Austria, (2)Intelgenx, Canada

**P194: Nanoparticles exacerbate Alzheimer's disease brain pathology. Neuroprotection with nanowired cerebrolysin and mesenchymal stem cells**

Aruna SHARMA (1), Dafin Fior MURESANU (2), Herbert MOESSLER (3), Ala NOZARI (4), Rudy J CASTELLANI (5), Z Ryan TIAN (6), Seaab SAHIB (6), Hari Shanker SHARMA (1) - (1)Uppsala University Hospital, Sweden, (2)RoNeuro Institute of Neurology, Romania, (3)Ever NeuroPharma, Austria, (4)Harvard Medical School, United States, (5)University of Maryland, United States, (6)University of Arkansas, United States

**P195: Methamphetamine exacerbates Alzheimer's disease pathology. Neuroprotective effects of nanowired cerebrolysin with neprilysin**

Hari Shanker SHARMA (1), Dafin Fior MURESANU (2), Herbert MOESSLER (3), Ala NOZARI (4), Rudy J CASTELLANI (5), Z Ryan TIAN (6), Seaab SAHIB (6), Aruna SHARMA (1) - (1)Uppsala University Hospital, Sweden, (2)RoNeuro Institute of Neurology, Romania, (3)Ever NeuroPharma, Austria, (4)Harvard Medical School, United States, (5)University of Maryland, United States, (6)University of Arkansas, United States

**P196: Mechanisms of interference by Alzheimer's Disease symptomatic treatments with tau aggregation inhibitor activity in a tau-transgenic mouse model**

Gernot RIEDEL (1), Jochen KLEIN (2), Grazyna NIEWIADOMSKA (3), Charles R HARRINGTON (1, 4), Claude M WISCHIK (1, 4) - (1)University of Aberdeen, United Kingdom, (2)Goethe University Frankfurt, Germany, (3)Nencki Institute, Poland, (4)TauRx Therapeutics Ltd, United Kingdom

**P197: Low dose brain irradiation reduces amyloid  $\beta$  and tau in 3x-Tg mice.**

James FONTANESI (1), Thomas G WILSON (1), Alaa HANNA (1), Daniel B MICHAEL (1), Prakash CHINNAIYAN (1), Michael M MADDEN (1), Alvaro A MARTINEZ (2), George D WILSON (3) - (1)Beaumont Health Systems, United States, (2)Michigan Healthcare partners, United States, (3)Beaumont Heal Sysytems, United States

## Theme 11: New therapies and clinical trials

**P198: A 12-week physical exercise intervention to prevent cognitive decline and disability in Korean at-risk elderly people: a pilot study**

Sun Min LEE (1), Hong-Sun SONG (2), Muncheong CHOI (3), Hye Mi KWON (1), Hyesu JEON (4), Da Eun SEO (4), Seonghye CHOI (5), So Young MOON (1) - (1)Department of Neurology, Ajou University School of Medicine, Korea, Republic of, (2)Department of Sports Sciences, Korea Institute of Sports Science, Korea, Republic of, (3)College of Physical Education and Sports Science, Kookmin University, Korea, Republic of, (4)Department of Psychology, Ajou University, Korea, Republic of, (5)Department of Neurology, Inha University College of Medicine, Korea, Republic of

**P199: BAN2401 In Early Alzheimer's Disease: A Placebo-Controlled, Double-Blind, Parallel-Group, 18-Month Study With An Open-Label Extension Phase To Confirm Safety And Efficacy (CLARITY AD)**

*Shau Yu LYNCH (1), Michael IRIZARRY (1), Shobha DHADDA (1), Yong ZHANG (1), Jinping WANG (1), Tanya BOGOSLOVSKY (1), Larisa REYDERMAN (1), June KAPLOW (1), Heather BRADLEY (1), Martin RABE (1), Keiichiro TOTSUKA (2), Lynn KRAMER (1), Harald HAMPEL (1), Chad SWANSON (1) - (1)Eisai Inc, United States, (2)Eisai Co., Ltd, Japan*

**P200: Masupirdine (SUVN-502), in combination with donepezil and memantine in moderate Alzheimer's Disease - Effect of AD duration since diagnosis on efficacy endpoints**

*Ramakrishna NIROGI (1), John IENI (1), Vinod GOYAL (1), Pradeep JAYARAJAN (1), Venkat JASTI (1), Jeffrey CUMMINGS (2) - (1)Suven Life Sciences, Serene Chambers, Banjara Hills, Hyderabad, India, (2)Department of Brain Health, School of Integrated Health Sciences, University of Nevada, Las Vegas; Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States*

**P201: AD diagnosis duration in combination with memantine exposures on Masupirdine (SUVN-502) efficacy - Masupirdine in combination with donepezil and memantine in moderate Alzheimer's disease patients**

*Ramakrishna NIROGI, Pradeep JAYARAJAN, Jyothsna RAVULA, Vinod GOYAL, Anil SHINDE, Satish JETTA, Abraham RENNY, Gopi BHYRAPUNENI, Venkat JASTI - (1)Suven Life Sciences, Serene Chambers, Banjara Hills, Hyderabad, India*

**P202: Exploratory subgroup analyses based on patient's age and its effect on cognitive endpoints - Masupirdine (SUVN-502), triple therapy with donepezil and memantine in moderate Alzheimer's disease patients**

*Ramakrishna NIROGI, Anil SHINDE, Vijay BENADE, Gopi BHYRAPUNENI, Satish JETTA, Pradeep JAYARAJAN, Vinod GOYAL, Santoshkumar PANDEY, Venkat JASTI - (1)Suven Life Sciences, Serene Chambers, Banjara Hills, Hyderabad, India*

**P203: Baseline ADAS-Cog 11 scores and its effect on cognitive endpoints - Masupirdine (SUVN-502), triple therapy with donepezil and memantine in patients with moderate Alzheimer's Disease**

*Ramakrishna NIROGI, Satish JETTA, Gopi BHYRAPUNENI, Raghava PALACHARLA, Anil SHINDE, Pradeep JAYARAJAN, Vinod GOYAL, Subramanian RAMKUMAR, Venkat JASTI - (1)Suven Life Sciences, Serene Chambers, Banjara Hills, Hyderabad, India*

**P204: Repurposing igmesine for the treatment of neurodegenerative diseases**

*Vanessa VILLARD (1, 2), Johann MEUNIER (1), Alexander PREGIZER (2), Dorothée BUTTIGIEG (3), Francois ROMAN (1, 2) - (1)Amylgen SAS, France, (2)SigmaThera SAS, France, (3)NeuronExperts SAS, France*

**P205: Evaluation of digital application MUSIC CARE© associated with personal hygiene care based on the good practices of nursing aides in long-term care facilities (EHPAD): a controlled, randomised study**

*Jacques TOUCHON (1, 2), Auguste LOKO (3), Stephane GUETIN (4) - (1)University Montpellier 1, France, (2)INSERM U1061, France, (3)University UPMC Paris, France, (4)University Paris 5, France*

**P206: In vivo efficacy of a small molecule inhibitor targeting tau self-association in both AD and tauopathy models**

*James MOE (1), Patricia LOPEZ (1), Heidy JIMENEZ (2), Leslie ADRIEN (2), Peter DAVIES (2), Eliot DAVIDOWITZ (1) - (1)Oligomerix.com, United States, (2)The Feinstein Institutes for Medical Research, United States*

**P207: The Neuroprotective Effect Of A New Photobiomodulation Technique On A $\beta$ 25-35 Peptide-Induced Toxicity Dramatically Impact Gut Microbiota Dysbiosis**

*Jacques TOUCHON (1, 2), Guillaume BLIVET (3), Laura AUBOYER (3), Johann MEUNIER (4), Laura CEOLIN (4), François J. ROMAN (4), Rémy BURCELIN (5) - (1)INSERM U1061, France, (2)Neurology Department, University of Montpellier, France, (3)REGENLIFE SAS, France, (4)AMYLGEN SAS, France, (5)Vaiomer SAS, France*

**P208: A Precision Medicine Multimodal Lifestyle Intervention for Treating Cognitive Impairment: Conceptual Framework of the PREVENTION Trial**

*Sarah MCEWEN (1, 2), David MERRILL (1, 2), Jennifer BRAMEN (1, 2), Verna PORTER (1, 2), Stella PANOS (1), Scott KAISER (1), Laura HEATH (3), Cory FUNK (3), Molly RAPOZO (1), Nathan PRICE (3), Mary Kay ROSS (3), Lee HOOD (3), Jared ROACH (3) - (1)Pacific Neuroscience Institute, 2125 Arizona Avenue, United States, (2)John Wayne Cancer Institute, Department of Translational Neurosciences & Neurotherapeutics, 2200 Santa Monica Blvd, United States, (3)Institute for Systems Biology, 401 Terry Avenue North, United States*

**P209: New therapeutic targeting of Alzheimers disease.Potential use of Proline-Rich-Polypeptide complex to correct an immunological deficits**

*Jerzy LESZEK - (1)Wroclaw Medical University Dpt.of Psychiatry, Poland*

**P210: A novel approach for developing new drugs based on decoding brain glucose hypometabolism in Alzheimer's disease**

*Chunjiu ZHONG - (1)Deaprtment of Neurology, Zhongshan Hospital, State Key Laboratory of Medical Neurobiology, Institute of Brain Science, Fudan University, China*

**P211: Clinical Trials and the etiology of AD.**

*Anastasios GEORGAKOPOULOS, Md RAHIM - (1)MSSM, United States*

**P212: A novel orally-available disease-modifying small molecule drug candidate for the prevention and treatment of Alzheimer's disease: Evaluation of Pharmacokinetic Properties in Rat Plasma and CSF Following Intravenous and Oral Administration.**

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**P213: Synaptic intervention in Alzheimer's disease: soluble A $\beta$  oligomer directed ACU193 monoclonal antibody therapeutic for treatment of early Alzheimer's disease**

*Ericka CLINE (1), Kirsten VIOLA (1), William KLEIN (1), Xueying WANG (2), Brian BACSKAI (2), Gerhard RAMMES (3), Jc DODART (4), Jorge PALOP (5), Eric SIEMERS (6), Jasna JERECIC (6), Grant KRAFFT (6) - (1)Northwestern University, United States, (2)Harvard University, United States, (3)Technische Universitat Munchen, Germany, (4)United Neuroscience, Ireland, (5)Gladstone Institute, United States, (6)Acumen Pharmaceuticals, United States*

**P214: Lysergic Acid Diethylamide as a Prospective Multi-Target Disease Modifying Therapeutic in AD: Phase 1 Safety, Tolerability, Pharmacokinetics, and Pharmacodynamics**

*Neiloufar FAMILY, Emeline MAILLET, Charles NICHOLS, Shlomi RAZ - (1)Eleusis, United Kingdom*

**P215: Conducting clinical trial simulation to study heterogeneity of trial outcomes in amyloid-modifying drugs**

*Ali TAFAZZOLI, Ameya CHAVAN, Anuraag KANSAL - (1)Evidera, United States*

**P216: Epigenetic Modulator Apabetalone Inhibits Monocyte Adhesion To Brain Endothelial Cells By Downregulating Key Neuroinflammation Markers In Vitro And In Vivo**

*Ewelina KULIKOWSKI (1), Sylwia WASIAK (1), Emily DAZE (1), Laura M. TSUJIKAWA (1), Shovon DAS (1), Li FU (1), Dean GILHAM (1), Brooke D. RAKAI (1), Stephanie C. STOTZ (1), Christopher D. SARSONS (1), Deborah STUDER (2), Kristina D. RINKER (2), Ravi JAHAGIRDAR (1), Norman C. W. WONG (1), Michael SWEENEY (3), Jan O. JOHANSSON (3) - (1)Resverlogix Corp, Canada, (2)University of Calgary, Canada, (3)Resverlogix Corp, United States*

**P217: Acupuncture with Golden Thread in Chronic Headache**

*Yoonah PARK - (1)Koshin university Gospel hospital, Korea, Republic of*

**P218: A Single Ascending Dose Study to Evaluate the Safety and Pharmacokinetics of PU-AD, an Anti-Alzheimer's Disease Epichaperome Inhibitor**

*Michael H SILVERMAN (1), Jeffrey CUMMINGS (2), Susan DUGGAN (1), Barbars WALLNER (1) - (1)Samus Therapeutics, United States, (2)Cleveland Clinic Lou Ruvo Center for Brain Health, United States*

**P219: Next-generation drug discovery for neurodegenerative disorders caused by gene dysregulations: Gene-therapy for synucleinopathies mediated by downregulation of SNCA transcription**

*Ornit CHIBA-FALEK, Lidia TAGLIAFIERRO, Ekaterina ILICH, Logan BROWN, Jeffrey GU, Boris KANTOR - (1)Duke University, United States*

**P220: Clinical phase I data of the first orally available anti-A $\beta$ -prionic PRI-002 that reverses behavior and cognitive deficits, and decelerates neurodegeneration in transgenic AD mouse models**

*Dieter WILLBOLD (1, 2, 3), Janine KUTZSCHE (1), Antje WILLUWEIT (1, 3), Dagmar JÜRGENS (1, 3), Manfred WINDISCH (4), Michael WOLZT (5) - (1)Forschungszentrum Jülich, Germany, (2)Heinrich-Heine-Universität Düsseldorf, Germany, (3)Priavoid, Germany, (4)Neuroscios, Austria, (5)Medical University of Vienna, Austria*