

210<sup>th</sup> OMICS Group Conference

# *Scientific Program*



2<sup>nd</sup> International Conference on

# **Alzheimer's Disease and Dementia**

September 23-25, 2014 Valencia Convention Centre, Spain



## **“Organize your Events at OMICS Group Conferences”**

Proposals are invited for organizing Symposia/Workshops at OMICS Group Conferences or OMICS Group will sponsor small events at your universities in related areas under the title of your own. These proposals can be sent to respective conference mail ids or to [symposia@omicsonline.org](mailto:symposia@omicsonline.org)

## **OMICS Group Conferences**

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## Auditorium 3 A-B



08:30-09:00

## Opening Ceremony

## Keynote Forum

- 09:00-09:25 **Eric G Tangalos**  
Mayo Clinic, USA
- 09:25-09:50 **Sanjay Asthana**  
University of Wisconsin, USA
- 09:50-10:15 **Toru Itakura**  
Wakayama Medical University, Japan
- 10:15-10:40 **Howard Rowley**  
University of Wisconsin, USA

Coffee Break 10:40-11:00 @ Auditorium 3 Foyer

## Group Photo

## Special Category

- 11:00-11:20 **Remembrance of things present - A poem with pictures**  
Peter Maeck, Writer, USA

## Session Introduction

## Session: Causes and Prevention of Alzheimer's

Session Chair: David Borchelt, University of Florida, USA

Session Co-Chair: Ken Nagata, Research Institute for Brain and Blood Vessels, Japan

- 11:20-11:40 **Disruption of proteostatic networks in Alzheimer's disease**  
David Borchelt, University of Florida, USA
- 11:40-12:00 **A carboxylated Zn-phthalocyanine inhibits the fibril formation of Alzheimer's amyloid  $\beta$  peptide**  
Atsushi Nagai, Shimane University, Japan
- 12:00-12:20 **Astrocytic contribution to deficient  $Ca^{2+}$  signalling and oxidative stress mediated by TRPV4 channels in  $A\beta_{40}$ -induced hippocampal cell death**  
Ji Zhong Bai, University of Auckland, New Zealand
- 12:20-12:40 **Common risk factors for Alzheimer's disease and vascular dementia**  
Ken Nagata, Research Institute for Brain and Blood Vessels, Japan

## Lunch Break 12:40-13:20 @ Multi Purpose Hall 2

- 13:20-13:40 **Copper dysfunction in Alzheimer's disease (AD): Alleles in *ATP7B* gene and increased levels of non-ceruloplasmin-copper rise the risk for AD**  
Rosanna Squitti, Fatebenefratelli Foundation, Italy
- 13:40-14:00 **Body mass index and risk of future dementia over two decades in two million people**  
Nawab Qizilbash, London School of Hygiene and Tropical Medicine, UK
- 14:00-14:20 **Traumatic Brain Injury (TBI) as a missed cause of dementia**  
Anne Felicia Ambrose, Mount Sinai School of Medicine, USA
- 14:20-14:40 **Addressing nutritional requirements in early Alzheimer's disease: What, why and when?**  
Laus Broersen, Nutricia Research, The Netherlands

## Session Discussion

## Session: Alzheimer's Disease Diagnosis and Imaging

## Session Introduction

**Session Chair:** Piotr Lewczuk, Universitätsklinikum Erlangen, Germany

**Session Co-Chair:** Fangyu Peng, University of Texas Southwestern Medical Center, USA

**14:40-15:00** **Neurochemical dementia diagnostics for the early diagnosis of Alzheimer's disease: State-of-the-art and the perspectives**

Piotr Lewczuk, Universitätsklinikum Erlangen, Germany

**15:00-15:20** **Altered copper metabolism as a theranostic biomarker in neurodegeneration**

Fangyu Peng, University of Texas Southwestern Medical Center, USA

**15:20-15:40** **The A $\beta$  oligomer count in CSF is a useful biomarker for Alzheimer's disease**

Dieter Willbold, Heinrich-Heine-Universität Dusseldorf, Germany

**Coffee Break 15:40-16:00 @ Auditorium 3 Foyer**

**16:00-16:20** **CSF anti-A $\beta$  autoantibodies as novel biomarker for cerebral amyloid angiopathy-related inflammation: Implications for amyloid-related imaging abnormalities (ARIA) during passive immunization in Alzheimer's disease**

Fabrizio Piazza, University of Milano-Bicocca, Italy

**16:20-16:40** **Cerebral blood flow by means of xenon-enhanced computed tomography: From trans-axial to surface quantitative images**

Shigeru Sase, Anzai Medical Co., Ltd., Japan

**16:40-17:00** **PZP: A novel biomarker for early Alzheimer's disease?**

Diana A T Nijholt, Erasmus Medical Center, The Netherlands

**17:00-17:20** **Unexpected brain MRI abnormalities in aging research studies**

Howard Rowley, University of Wisconsin, USA

**17:20-17:40** **Tau PET imaging: New insight into early diagnosis of tauopathy**

Naruhiko Sahara, National Institute of Radiological Sciences, Japan

**17:40-18:00** **Early dysfunctions preceding neurodegeneration in synucleinopathy**

Elvira De Leonibus, Institute of Genetics and Biophysics, Italy

**Session Discussion**

**Day 2 September 24, 2014**

**Auditorium 3B**

## **Keynote Forum**

**08:30-08:55** **Alan M Palmer**  
Cerebroscience Ltd., UK

**08:55-09:20** **Barbara C Fisher**  
United Psychological Services, USA

**09:20-09:45** **Nigel M Hooper**  
University of Manchester, UK

**09:45-10:10** **Federico Licastro**  
University of Bologna, Italy

**Coffee Break 10:10-10:30 @ Auditorium 3 Foyer**

**Session: Alzheimers Disease Pathophysiology and Disease Mechanisms**

**Session Introduction**

**Session Chair:** Tayfun Uzbay, Uskudar University, Turkey

**Session Co-Chair:** Rona K Graham, University of Sherbrooke, Canada

**10:30-10:50** **Alzheimer disease and neuroplasticity: New approaches and new targets**

Tayfun Uzbay, Uskudar University, Turkey

**10:50-11:10** **Rescue of TGF- $\beta$ 1 signaling as a new strategy for neuroprotection in AD: Role of antidepressant drugs**

Filippo Caraci, University of Catania, Italy

**11:10-11:30** **Stealth adapted viruses, alternative cellular energy (ACE) pathway and Alzheimer's disease**

W John Martin, Institute of Progressive Medicine, USA

**11:30-11:50** **The role of apoptotic mechanisms in the pathophysiology of Alzheimer's Disease**

Rona K Graham, University of Sherbrooke, Canada

- 11:50-12:10** **Amyloid- $\beta$  precursor protein presence on the neuron surface is required for the iron pore ferroportin to efflux iron**  
James A Duce, University of Leeds, UK
- 12:10-12:30** **P53 family pathway activation in microglia; implications for Neurodegeneration**  
Jennifer Pocock, University College London, London

**Lunch Break 12:30-13:10 @ Multi Purpose Hall 2**

- 13:10-13:30** **Optogenetic investigation of brain network dysfunction in Alzheimer's disease**  
Mondragon-Rodriguez Siddhartha, McGill University, Canada
- 13:30-13:50** **Metabolic syndrome, neuroinflammation and cognitive impairment: State of the art and results from a second level outpatient clinic in Italy**  
Valeria Calsolaro, University of Pisa, Italy

**Session Discussion**

**Session: Dementia: An Underlying Disease Mechanisms**

**Session Introduction**

**Session Chair:** Natalie Rasgon, Stanford University, USA  
**Session Co-Chair:** Toru Itakura, Wakayama Medical University, Japan

- 13:50-14:10** **Insulin resistance: Risk factor of dementia**  
Natalie Rasgon, Stanford University, USA
- 14:10-14:30** **A prophylactic daily program for dementia**  
Toru Itakura, Wakayama Medical University, Japan
- 14:30-14:50** **Neurochemical dementia diagnostics - Interlaboratory variation of analysis, reference ranges and interpretations in the European CSF Survey of INSTAND**  
Hansotto Reiber, INSTAND, Germany
- 14:50-15:10** **Dementia in children and young adults with Niemann-Pick disease type C (NPC)**  
Jacqueline Imrie, Manchester University, UK

**Session: Geriatrics, Cognitive Disorder and Care Practice**

**Session Introduction**

- Session Chair:** Eric G Tangalos, Mayo Clinic, USA & Sanjay Asthana, University of Wisconsin, USA
- 15:10-15:30** **Managing mood and behaviors in long-term care facilities in the United States**  
Eric G Tangalos, Mayo Clinic, USA
- 15:30-15:50** **KEEPS cognitive and affective study: Effects of estrogen on cognition and mood in recently postmenopausal Women**  
Sanjay Asthana, University of Wisconsin, USA

**Coffee Break 15:50-16:10 @ Auditorium 3 Foyer**

- 16:10-16:30** **Different types of soy products and their possible benefit and risk associated with dementia in China and Indonesia**  
Eef Hogervorst, Loughborough University, UK
- 16:30-16:50** **Vitamin B12 deficiency and cognitive impairment: Re-visiting an old acquaintance**  
Belinda Vicioso, University of Texas Southwestern, USA
- 16:50-17:10** **Indicators of quality of care for patients with dementia in the acute care setting**  
Melinda Martin Khan, The University of Queensland, Australia
- 17:10-17:30** **A theoretical framework for environmental design intervention to support neurodegenerative disease management**  
Attila Lawrence, University of Nevada, USA
- 17:30-17:50** **Latent Herpes virus infection cognitive deterioration and dementia**  
Federico Licastro, University of Bologna, Italy
- 17:50-18:10** **Long-term ongoing structured support in early stage of dementia: PER-model**  
Annika Kjallman Alm, Mid Sweden University, Sweden
- 18:10-18:30** **Black and minority ethnic communities and dementia: Where are we now?**  
David Truswell, Race Equality Foundation, UK
- 18:30-18:50** **Dementia and public health: Promise, pitfalls and progress**  
Melinda Martin-Khan, The University of Queensland, Australia
- 18:50-19:10** **The frequency of cognitive impairment and dementia one year after ischemic stroke in Bulgarian patients**  
Neli Petrova, MHAT "Ruse", Bulgaria

**Session Discussion**



Session: Therapeutic Targets & Animal Models

Session Introduction

Session Chair: Alan Palmer, Cerebroscience Ltd., UK

Session Co-Chair: Charles DeCarli, University of California, USA

08:30-08:50 **What are the prospects of slowing the progression of Alzheimer's disease?**

Alan Palmer, Cerebroscience Ltd., UK

08:50-09:10 **Neuropsychiatric symptoms in Alzheimer's disease: Contradictory interpretations between caregiver report and clinician impression**

Florindo Stella, Universidade Estadual Paulista, Brazil

09:10-09:30 **Amylin: what might be its role in Alzheimer's disease and how could this affect therapy ?**

Charles DeCarli, University of California, USA

09:30-09:50 **Insulin-like growth factor 2 reverses memory and synaptic impairments in APP transgenic mice**

Ana Gracia Osta, Center for Applied Medical Research, Spain

09:50-10:10 **Epigenetic approaches for the treatment of Alzheimer's disease**

Cuadrado Tejedor M, University of Navarra, Spain

Coffee Break 10:10-10:30 @ Auditorium 3 Foyer

10:30-10:50 **Contributions of translational behavioral neuroscience to the advanced diagnostic and therapeutic approaches towards dementia**

Lydia Gimenez Llori, Autonomous University of Barcelona, Spain

10:50-11:10 **Discovery and development of novel functionally-selective S1R ligands as potential Alzheimer's disease-modifying therapeutics**

John A. Schetz, University of North Texas Health Science Center, USA

11:10-11:30 **Pyroloquinoline quinone nutritional status revert synaptosomal mitochondrial dysfunction and behavioral alterations in a transgenic rat model of Alzheimer's disease**

Laura Morelli, Fundacion Instituto Leloir-IBBA, Argentina

11:30-11:50 **New cellular models for drug discovery in Alzheimer's disease**

Jordon Holtzman, University of Minnesota, USA

11:50-12:10 **Involvement of PKR in Alzheimer's disease**

Jacques Hugon, University of Paris, France

12:10-12:30 **Development of polysorbate-80 coated galantamine nanorticles to treat Alzheimer's disease**

C Vijaya Raghavan, PSG College of Pharmacy, India

Lunch Break 12:30-13:10 @ Multi Purpose Hall 2

Session Discussion

Young Research Forum

13:10-13:25 **Bridging Tau and Amyloid- $\beta$  pathologies in sporadic Alzheimer's disease: Mitochondria under the spotlight**

Diana F Silva, Center for Neuroscience and Cell Biology, Portugal

13:25-13:40 **Computer-based measures of attentional function in aging and dementia**

Amy Jenkins, Swansea University, UK

13:40-13:55 **Development and feasibility of an Internet-based self-management intervention for spousal caregivers of people with early-stage dementia**

Lizzy Boots, Maastricht University, The Netherlands

13:55-14:10 **Vitamin D deficiency among the elderly: Insights from Qatar**

Navas Nadukkandiyil, Hamad Medical Corporation, Qatar

14:10-14:25 **A feasibility study of the experience sampling methodology in spousal caregivers of dementia patients**

Rosalie van Knippenberg, Maastricht University, The Netherlands

14:25-14:40 **Quality of life of family carers of individuals with dementia living at home: Systematic literature review**

Deborah Cristina de Oliveira, University of Nottingham, UK

- 14:40-14:55** **Andrographolide attenuates activation of NF-kB, JNK signaling pathways and chemokines gene expression in astrocytes. An implication for anti-neuroinflammation therapy**  
**Siew Ying**, University of Singapore, Singapore
- 14:55-15:10** **Novel antidiabetic compounds improve hippocampal insulin sensitivity and attenuate tau hyperphosphorylation in model of diabetic mice**  
**Andrea Spolcova**, University Lille, France
- 15:10-15:25** **Modifiers of amyloid beta toxicity in Alzheimer's disease**  
**Mayida Azhar**, University of Cambridge, UK
- 15:25-15:40** **Service-related needs of older people with dementia as reported by service users and their unpaid carers**  
**Sylwia Gorska**, Queen Margaret University, UK
- 15:40-16:00** **Closing Ceremony**
- Coffee Break 16:00-16:20 @ Auditorium 3 Foyer**
- Session for Students @ Committee Room 1-2**
- 16:30-17:30** **Scientific Writing, Journal Review, Grant Writing, Strategies for building a scientific carrier and scientific carrier outside Research**  
**Nikolai Patrovsky**, Flinders University, Australia

## Bookmark your dates



# 3<sup>rd</sup> International Conference on **Alzheimer's Disease and Dementia**

August 31-September 02, 2015 Toronto, Canada



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