

5th Edition of Innovations and State of the Art in

ALZHEIMER'S & DEMENTIA

September 12-13, 2024 at Lisbon, Portugal



Venue:

**Masa Hotel Campo Grande,
Campo Grande 56 56A, 1700-093,
Lisbon, Portugal**

Website URL: <https://alzheimers-dementia.org/> | Email: dementiacongress@innovinc.org

Day
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THURSDAY

5th Edition of Innovations and State of the Art in

ALZHEIMER'S & DEMENTIA

September 12-13, 2024 at Lisbon, Portugal

Meeting Hall - Lapa

Moderator: Aline Freyssin, France

Registrations Open 08:00-08:45

Welcome Remarks by Moderator(08:45:09:00)

KEYNOTE FORUM

- 09:00-09:30 -----

Title: Blood-brain barrier role in cognitive impairment and Alzheimer's disease and therapeutic opportunities

Berislav Zlokovic, *University Of Southern California, USA*
- 09:30-10:00 -----

Title: Epigenetic Dysregulation of Cholesterol Biosynthesis Gene Expression in Alzheimer's Disease: Implications in Therapy

Tapas K Kundu, *JNCASR, India*
- 10:00-10:30 -----

Title: Key indicators for Aging Well: housing solutions to promote health and social integration of older adults

Masi Mohammadi, *Eindhoven University of Technology and HAN University, The Netherlands*

Group Photo & Refreshment Break (10:30-10:50)

Technical session-I

Themes:
*Alzheimer's Research and Therapy,
Advances in Alzheimer's and Dementia Research*

Session Chairs:

Dr. Ottavio Arancio, USA,
Dr. Berislav Zlokovic, USA &
Dr. Tapas K Kundu, India

- 10:50-11:10 -----

Title: Towards a unitary hypothesis of Alzheimer disease pathogenesis

Eric A. Schon, *Columbia University, USA*
- 11:10-11:30 -----

Title: Vascular Dysfunction in Alzheimer's Disease: towards anti-angiogenic therapeutics

Giorgia Caspani, *University of British Columbia, Canada*

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- 11:30-11:50 ----- Title: Neuroprotective effects of a new NMDA receptor antagonist in Alzheimer's Disease**
Aline Freyssin, ReST therapeutics, France
- 11:50-12:10 ----- Title: AIBP controls TLR4 inflammarafcts and mitochondrial dysfunction in a mouse model of Alzheimer's disease**
Yury Miller, University of California, San Diego, USA
- 12:10-12:30 ----- Title: Cell-free chromatin particles released from dying cells inflict mitochondrial damage and ROS production in living cells: implications for Alzheimer's disease and Dementia**
Indraneel Mittra, Tata Memorial Centre, India
- 12:30-12:50 ----- Title: Induction and characterisation of A β and tau pathology in AppNL-F/NL-F mice following inoculation with Alzheimer's disease brain homogenate**
Silvia A. Purro, University College London, UK
- Lunch Break @ Restaurant (12:50-13:40)**
- 13:40-14:00 ----- Title: Targeting the Mitochondrial Protein VDAC1 Mitigates Brain Pathology in Models of Alzheimer's Disease**
Varda Shoshan-Barmaz, Ben-Gurion University of the Negev, Israel
- 14:00-14:20 ----- Title: Alzheimer's Disease risk gene PICALM as a therapeutic target to improve amyloid-beta clearance at the blood-brain barrier and prevent development of amyloid-beta pathology**
Kassandra Kisler, University of Southern California, USA
- 14:20-14:40----- Title: Whole Genome Deconvolution Unveils Alzheimer's Resilient Epigenetic Signature**
Eloise Berson, Stanford University, USA
- 14:40-15:00 ----- Title: Behaviour hallmarks in 5xFAD transgenic mice**
Mafalda S. Pádua, University of Lisbon, Portugal

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15:00-15:20 ----- Title: The association between BCG treatment in patients with bladder cancer and subsequent risk of developing Alzheimer and other dementia - A Swedish nationwide cohort study from 1997 to 2019

Eugen Yuhui Wang, *Uppsala University, Sweden*

15:20-15:40 ----- Title: Characteristics and correlates of perceived physical and psychological health among family caregivers living with persons with advanced dementia

Gabriella Engström, *The Karolinska Institute, Sweden*

Refreshment Break (15:40:16:00)

Technical session-II

THEMES: Aging and Dementia, Healthy Aging

Session Chairs:

Dr. Brian Lithgow, USA

Dr. Carlos Gutierrez-Merino, Spain

16:00-16:20 ----- Title: Understanding the etiology of dementia: Role of Non-Demented Alzheimer Neuropathology (NDAN) Subjects

Paul L Wood, *Lincoln Memorial University, USA*

16:20:16:40 ----- Title: Gradient copolymers prepared by living cationic polymerization of 2-oxazolines for the inhibition of amyloid fibril formation

Juraj Kronek, *Polymer Institute of the Slovak Academy of Sciences, Slovakia*

16:40-17:00 ----- Title: Examining the intersection of cognitive and physical function measures in the brain networks and mobility (B-NET) study

Atalie Carina Thompson, *Wake Forest Baptist Health, USA*

17:00-17:20 ----- Title: Difference of Cerebrospinal Fluid Biomarkers and Neuropsychiatric Symptoms Profiles among Normal Cognition, Mild Cognitive Impairment, and Dementia Patient.

Ching-Chi Hsu, *Wizcare Hospital in Taichung Taiwan, Taiwan*

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- 17:20-17:40 ----- Title: Using Natural Language Processing to identify social determinants of Health and dementia from Electronic Health Records
- Elham Mahmoudi, *University of Michigan, USA*
- 17:40-18:00 ----- Title: Astroglia as a key player in the pathology of Alzheimer's Disease and other Dementias
- Jose Julio Rodríguez Arellano, *IKERBASQUE, Spain*
- 18:00-18:20 ----- Title: Astroglia as a key player in the pathology of Alzheimer's Disease and other Dementias
- Marshall G Hussain Shuler, *Johns Hopkins University, USA*
- 18:20-18:40 ----- Title: Identification of Intron Retention in the Slc16a3 Gene Transcript Encoding the Transporter MCT4 in the Brain of Aged and Alzheimer-Disease Model (APPswePS1dE9) Mice
- Veronique Ladeveze, *University of Poitiers, France*
- 18:40-19:00 ----- Title: The Role of Chinese Acupuncture for Chemotherapy Induced Cognitive Impairment in Elderly Cancer Patients: preliminary clinical trial data of the ongoing project
- Yongling Gong, *Nanjing Medical University, China*

Day-1 Concludes

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Meeting Hall - Lapa

Moderator: Zahra Moussavi, Canada

Welcome Remarks by Moderator(08:45-09:00)

KEYNOTE FORUM

09:00-09:30 ----- Title: Membrane Catalyzed Polymorphic Amyloid Aggregates Implicated in Alzheimer's Disease

Ayyalusamy Ramamoorthy, *Florida State University, USA*

09:30-10:00 ----- Title: Brain Hydrophobic Peptides Antagonists of Neurotoxic Amyloid β Peptide Monomers/Oligomers-Protein Interactions

Carlos Gutierrez-Merino, *University of Extremadura, Spain*

10:00-10:30 ----- Title: Clinical Utility Of A Reaction-Time Attention Task In The Evaluation Of Cognitive Impairment In Elderly With Mci, Early Ad, And Hcv (Hepatitis C)

Sergio L. Schmidt, *Federal University of the State of Rio de Janeiro, Brazil*

Refreshment Break (10:30-10:45)

Technical session-III

THEMES:

*Dementia care research and Practice,
Dementia diagnosis, treatment*

Session Chairs:

*Dr. Azita Emami, USA
Dr. Sergio Luis Schmidt, Brazil*

10:45-11:05 ----- Title: PDE5 inhibitors against synaptic and cognitive impairment in Alzheimer's disease and related dementia

Ottavio Arancio, *Columbia University, USA*

11:05-11:25 ----- Title: Assessing stress using repeated saliva concentration of steroid hormones in dementia care dyads: results from a controlled pilot care music intervention

Azita Emami, *Yale- School of Nursing, USA*

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- 11:25-11:45 ----- Title: Neuroprotective Effects of Asparagus Officinalis Stem Extract in Transgenic Mice Overexpressing APP**
- Marie-Francoise Joelle Doursout**, *McGovern Medical School, University of Texas Health Science Center at Houston, USA*
- 11:45-12:05 ----- Title: Hospital Readmission and Frequent Hospitalizations among Patients with dementia in the U.S**
- Elham Mahmoudi**, *University of Michigan, USA*
- 12:05-12:25 ----- Title: Engagement with People with Dementia, their Care Partners with Participatory Action Research Facilitating Hospital-to-Home Care Transitions**
- Ann MacLeod**, *Trent Fleming School of Nursing, Canada*
- 12:25-12:45 ----- Title: Electrovestibulography as a physiological monitoring tool for tACS treatment in dementia**
- Brian Lithgow**, *University of Manitoba, Canada*
- 12:45-13:05 ----- Title: Neuropsychological, plasma marker, and functional connectivity changes in Alzheimer's disease patients infected with COVID-19**
- Shouzi Zhang**, *Beijing Geriatric Hospital, China*

Lunch Break @ Restaurant (13:05-14:00)

- 14:00-14:20 ----- Title: Overnight Single-Channel EEG and Entropy for Detection of Alzheimer's Disease in Older Adults**
- Shahab Haghayegh**, *Massachusetts General Hospital / Harvard Medical School, USA*
- 14:20-14:40 ----- Title: Longitudinal non-pharmaceutical treatment of a patient with Alzheimer's disease: a case study**
- Zahra Moussavi**, *University of Manitoba, Canada*
- 14:40-15:00 ----- Title: Neurotrophic Factor- $\alpha 1$ reverses memory loss and Alzheimer's Disease pathology**
- Yoke Peng Loh**, *National Institutes of Health, USA*

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15:00-15:20 ----- Title: The Challenge of Japan for the Dementia in Super-aged Society as Frontrunner of the World

Miwa Ishihara, Kanagawa University for Human Services, Japan

Technical Session-IV

**THEMES: Neurodegenerative Diseases,
Amyloid and Tau Protein, Molecular and Cell Biology, Case Studies**

Session Chairs:

Dr. Charles R Joseph, USA

Dr. Akira Naito, Japan

15:20-15:40 ----- Title: Blood Brain Barrier (BBB): The Nexus of Neurodegenerative Dementia

Charles R Joseph, Liberty University College of Osteopathic Medicine, USA

15:40-16:00 ----- Title: The role of NEDD4 family members in neurodegenerative diseases

Edgar R. Kramer, University of Plymouth, UK & HMU, Potsdam, Germany

Refreshment Break (16:00-16:10)

16:10-16:30 ----- Title: Meningitis in the guise of dementia: Lyme-induced normal pressure hydrocephalus

Ryan Liu, Cooper University Health Care, USA

16:30-16:50 ----- Title: Amyloid fibril formation mechanism and dynamic membrane interaction of human calcitonin and glucagon

Akira Naito, Yokohama National University, Japan

16:50-17:10 ----- Title: Cross-Seeding Mechanism for Modulating Amyloid Features by Antimicrobial Peptides

Jie Zheng, University of Akron, USA

Day-2 Concludes

Virtual Scientific Program



Join Zoom Meeting



Meeting ID: 837 9791 4980

Passcode: 715508

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Virtual Program(Lisbon Time-WEST)

- 08:10-08:30 ----- An aid diagnostic platform to detect the transition of mild cognitive impairment (MCI) to Alzheimer's disease (AD) based on 48,116 AD and MCI patients
Jing Li, University of Hong Kong, China
- 08:30-09:00 ----- **Keynote Talk:** Efficacy of cognitive-behavioral therapy-based intervention on type 2 diabetes patients with comorbid metabolic syndrome: a randomized controlled trial
Jing Sun, Charles Sturt University, Australia
- 09:00-09:20 ----- Title: Gut microbiota may be involved in Alzheimers disease pathology by dysregulating pyrimidine metabolism in APP/PS1 mice
Yingjun Zhang, Hunan University of Medicine, China
- 09:20-09:40 ----- Title: Increased expression of protein O-linked mannose beta-1,2-N-acetylglucosaminyltransferase 1 ameliorates Alzheimer's disease-like pathologies in its cell and mouse models
Xiaofeng Li, Chongqing Medical University, China
- 09:40-10:00 ----- Title: Ketogenic diet and BHB rescue LTP memory in Alzheimer's mouse and are dose-dependently anti-inflammatory to mouse and human microglia
Gino Cortopassi, University of California Davis, USA
- 10:00-10:20 ----- Title: Young CSF restores oligodendrogenesis and memory in aged mice via Fgf17
Tal Iram, Weizmann Institute of Science, Israel
- 10:20-10:40 ----- Title: A personalized methodology for assessing early post-stroke cognitive impairment
Elina Reznik, Immanuel Kant Baltic Federal University, Russia

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- 10:40-11:00 ----- Title: **Catching the threads: caregiving in Alzheimer's disease**
Elizabeth Kuipers, *IOPPN, King's College London, UK*
- 11:00-11:20 ----- Title: **Bioinformatic Analysis of Diverse Amyloids**
Marcel Zamocky, *Slovak Academy of Sciences, Slovakia*
- 11:20-11:40 ----- Title: **Deciphering Anti_Alzheimer Drug Candidate Mechanism of Action Using a Bioorthogonal Chemistry-derived Pharmacophore Strategy**
Nicolas Sergeant, *Inserm Nord-Ouest, France*
- 11:40-12:00 ----- Title: **Increased telomerase improves motor function and alpha_synuclein pathology in a transgenic mouse model of Parkinson's disease associated with enhanced autophagy**
Gabriele Saretzki, *Newcastle University, UK*
- 12:00-12:20 ----- Title: **Advance Directives: Knowledge of the Topic Among Psychiatrists**
Vania Novelli Domingues & Monica Domingues Monteiro, *University of Porto, Portugal & Oswaldo Cruz Foundation (FIOCRUZ), Brazil*
- 12:20-12:40 ----- Title: **Spike Timing-Dependent Plasticity and brain oscillations in Alzheimer's disease: Dissecting the earliest time point of hippocampal functional impairment during the disease progression**
Yuniesky Andrade-Talavera, *University Pablo de Olavide, Spain*
- 12:40-13:00 ----- Title: **The Cpt-2 Cascade Hypothesis For Alzheimer's Disease**
Hiskias G.Keizer, *Alloksys/AMRIF, The Netherlands*
- 13:00-13:20 ----- Title: **Particulate matter composition as a risk factor for neurodegenerative diseases**
Ernesto Alfaro-Moreno, *International Iberian Nanotechnology Laboratory, Portugal*

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13:20-13:40 -----	Title: Astrocytic and ECoG Signatures of Stearoyl-CoA Desaturase Inhibition in the Triple Transgenic Mouse Model of Alzheimer's Disease Jonathan Brouillette, <i>University of Montreal, Canada</i>
13:40-14:00 -----	Title: Amyloid b Ion Channels in Alzheimer's Disease Suren Tatulian, <i>University of Central Florida, USA</i>
14:00-14:20 -----	Title: Chronic Subdural Hematoma: Overview of Recent Therapeutic Advancements Rouzbeh Motiei-Langroudi, <i>University Of Kentucky, Neurosurgery, USA</i>
14:20-14:40 -----	Title: Association of region-specific hippocampal reduction of neurogranin with inflammasome proteins in post-mortem brains of Alzheimer's disease Regina T Vontell, <i>University of Miami, USA</i>
14:40-15:00 -----	Title: Soft detection and prediction of mild cognitive impairment using resting-state EEG Tongtong Li, <i>Michigan State University, USA</i>
15:00-15:20 -----	Title: Transformative Advances in Alzheimers Disease Diagnosis: Harnessing the Power of Generative AI for Early Detection and Research Advancements Surabhi Sinha, <i>Adobe, USA</i>
15:20-15:40 -----	Title: Lifestyle Changes Significantly Improve Cognition and Function in Early Alzheimer's Disease for the First Time in a Randomized Controlled Trial Dean Ornish, <i>University of California, USA</i>
Panel Discussion & End of the day	

We wish to see you again at



6th Edition of Innovations and State of the Art in

ALZHEIMER'S & DEMENTIA

October 01-02, 2025 at Berlin, Germany

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