

## PRECONFERENCE

FRIDAY, JULY 10TH



### WORKSHOP SESSION

**8:00 am - 5:00 pm (BST)**

#### Unlocking the Secrets of Alzheimer's Disease and Related Dementias: Mastering Fluid Biomarkers.

This workshop aims to provide participants with an in-depth understanding of the fundamental principles, differences in methodology, and clinical and research applications of AD biomarkers present in cerebrospinal fluid (CSF) and blood. This workshop will include fundamental laboratory-focused sessions that capture the advances in neurochemistry, sample handling, assay methods and development, quality control, and regulatory considerations. It will also incorporate clinical practice-focused sessions that cover considerations for AD fluid biomarker implementation, the context of use, disclosure, and the gaps and opportunities in this field.

##### SPEAKERS

**Henrik Zetterberg, Ph.D.**  
**Nicholas Ashton, Ph.D.**  
**Inge Verberk, Ph.D.**  
**Frederica Anastasi, Ph.D.**  
**Charlotte Teunissen, Ph.D.**  
**Carlos Cruchaga, Ph.D.**  
**Alicia Algeciras Schimmich, Ph.D.**  
**Michelle Mielke, Ph.D.**  
**Jeff Dage, Ph.D.**

#### Jonathan Schott, Ph.D. Suzanne Schindler, Ph.D.

##### ORGANIZING COMMITTEE

**Jeff Dage, Ph.D. - Emily Meyers, Ph.D. Nicholas Ashton, Ph.D. - Charlotte Teunissen, Ph.D. - Laia Montoliu-Gaya, Ph.D. - Alicia Algeciras-Schimmich, Ph.D. - Ashvini Keshavan, Ph.D.**

##### SESSION DETAILS

**PENINSULA EAST  
INTERCONTINENTAL-THE O2.**

**1:00 pm - 5:00 pm (BST)**

#### Basics of Genetic Analysis.

The workshop will provide an immersive introduction to the fundamentals of genetic analysis within the framework of brain imaging genetics research. Tailored for participants interested in exploring the interplay between genetic data and imaging-based studies, the sessions will integrate theoretical concepts with hands-on practice to provide a comprehensive learning experience.

##### SPEAKERS

**Tavia E. Evans, Ph.D.**  
**Emma S. Lockett, Ph.D.**  
**Eugenia Domingo-Güell, M.Sc**  
**Da Ma, Ph.D.**  
**Derek Archer, Ph.D.**  
**Gerard Temprano-Sagrera, Ph.D.**  
**Natalia Vilor-Tejedor, Ph.D.**

##### ORGANIZING COMMITTEE

**Tavia E Evans, PhD - Natalia Vilor-Tejedor, PhD - Emma S. Lockett, PhD - David Cash, PhD.**

##### SESSION DETAILS

**AURORA BALLROOM 2, 3, 5, 6  
INTERCONTINENTAL-THE O2.**

Explore all our contributions at the conference

## AAIC

SUNDAY, JULY 12TH (1/2)



### FEATURED RESEARCH SESSION

9:00 - 10:30 am (BST)

#### Limits Of Plasma P-tau217 For Pathology-Specific Alzheimer's Disease Staging: A Multicohort Study.

PRESENTING AUTHOR

**Vasiliki Bikou, MSc**

SESSION DETAILS

Advances and Real-World Impact of Blood-Based Biomarkers.

ROOM: GEORGE V 3/4.

9:00 - 10:30 am (BST)

#### Differential Impact Of Renal Function On Alzheimer's Disease Blood-based Biomarkers.

PRESENTING AUTHOR

**Gianmarco Iaccarino, MD**

SESSION DETAILS

Advances and Real-World Impact of Blood-Based Biomarkers.

ROOM: GEORGE V 3/4.

4:15 - 5:45 pm (BST)

#### CSF Proteomic Signatures Predicting Acceleration Of Cognitive Decline In Alzheimer's Disease Dementia Depend On Tau Status.

PRESENTING AUTHOR

**Federica Anastasi, PhD**

SESSION DETAILS

Understanding molecular resilience and vulnerability in AD.

ROOM: VICTORIA 5/6.



### POSTERS

Sunday-0503

#### Occipital Amyloid PET Deposition Across The AD Spectrum: A Multi-cohort Study.

PRESENTING AUTHOR

**Alba Martos Sánchez, MSc**

AREA

Biomarkers: Neuroimaging.

Explore all our contributions at the conference

## AAIC

SUNDAY, JULY 12TH (2/2)



### POSTERS (cont.)

Sunday-0793

#### Baseline profile of participants in a psychological intervention for people with early-stage Alzheimer's disease: A pilot study.

PRESENTING AUTHOR

**Elena de Andrés Jiménez, PhD**

AREA

Basic Science and Pathogenesis:  
Human Neuropathology.

Sunday-0117

#### Plasma And CSF Biomarkers Are Associated With Trajectories Of Everyday Functioning In Preclinical Alzheimer's Disease.

PRESENTING AUTHOR

**Eloi Jacomet Cecilia, MSc**

AREA

ISTAART Professional Interest Area (PIA)  
Student / Postdoctoral Poster Competition.

Sunday-1187

#### Serum $\alpha$ -klotho differentially modifies AD-related cognitive decline across the AD continuum in a Sex-specific manner.

PRESENTING AUTHOR

**Felipe Hernández Villamizar, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

Sunday-0995

#### Amyloid Deposition modifies the association of CSF PDGFR $\beta$ and LCN2 with Cognitive Function.

PRESENTING AUTHOR

**Helena Blasco, MSc**

AREA

Developing Topics: Biomarkers.

Sunday-0518

#### Astroglial reactivity is associated with early cortical microstructural changes in preclinical Alzheimer's disease.

PRESENTING AUTHOR

**Wiesje Pelkmans, PhD**

AREA

Biomarkers: Neuroimaging.

Sunday-0011

#### Biomarker-Based Dementia Risk Disclosure in Asymptomatic Individuals: An Ethical and Evidence-Based Framework.

PRESENTING AUTHOR

**Andrea Horta-Barba, MSc**

AREA

AAIC Postdoctoral Poster Competition.

Explore all our contributions at the conference

## AAIC

MONDAY, JULY 13TH (1/2)



### LIGHTNING PRESENTATION ROUND

8:00 - 8:45 am (BST)

#### Early Menopause Is Associated With Increased Neurodegeneration And Cognitive Decline In High Alzheimer's Pathology Risk Women.

PRESENTING AUTHOR

**Anna Brugulat, PhD**

SESSION DETAILS

Astrogliosis, Inflammation, and Lifestyle/  
Endocrine Impacts.

ROOM S11.



### FEATURED RESEARCH SESSION

9:00 - 10:30 am (BST)

#### Genetic Profiles Shapes Air Pollution-related Brain Volume Loss Across The Amyloid-tau Continuum.

PRESENTING AUTHOR

**Natàlia Vilor-Tejedor, PhD**

SESSION DETAILS

Exposomes, Environment, and Dementia Risk:  
New Evidence at the Population Level.

ROOM: VICTORIA 2/3.



### POSTERS

Monday-0200

#### Multi Network-based Analysis Reveal Sex-dependent Plasma Protein Co-expression Linked To Alzheimer's Genetic Risk.

PRESENTING AUTHOR

**Alba Fernández-Bonet, MSc**

AREA

Basic Science and Pathogenesis: Genetics.

Monday-0643

#### Parity Interacts with APOE-ε4 Status to Accelerate Hippocampal Volume Decline in Postmenopausal Women.

PRESENTING AUTHOR

**Clara Gallay, MSc**

AREA

Biomarkers: Neuroimaging.

Monday-0444

#### Longitudinal remote speech biomarkers enable early detection of Alzheimer's disease pathology-related cognitive change in individuals with Subjective Cognitive Decline.

PRESENTING AUTHOR

**Clàudia Porta-Mas, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

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## AAIC

MONDAY, JULY 13TH (2/2)



### POSTERS (cont.)

#### Monday-0935

**Pilot study of satisfaction with the Plenament Actives psychological intervention for people with early-stage Alzheimer's disease.**

PRESENTING AUTHOR

**Glòria Mas Vall-Ilosera, MSc**

AREA

Dementia Care Research and Psychosocial Factors: Dementia Care and Health.

#### Monday-0761

**Longitudinal Multimodal Machine Learning For Dementia: Methods, Challenges, And Implications For Clinical Translation.**

PRESENTING AUTHOR

**Sara Calhas, MSc**

AREA

Clinical Manifestations: Neuropsychiatry and Behavioral Neurology.

#### Monday-0640

**Multivariate Non-parametric PQL Analysis Reveals Sex-dependent Genetic Architecture Of Blood-brain Barrier Dysfunction.**

PRESENTING AUTHOR

**Kahina Baouche, MSc**

AREA

Biomarkers: Neuroimaging.

#### Monday-0425

**Comparison Of Plasma-derived Small Extracellular Vesicle (sEV) Isolation Methods Using LC-MS/MS Proteomics.**

PRESENTING AUTHOR

**Marina de Diego, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

## AAIC

TUESDAY, JULY 14TH (1/2)



### FEATURED RESEARCH SESSION

9:00 - 10:30 am (BST)

#### Plasma Biomarkers For Preclinical Alzheimer's Disease: Population Context, Cognition, And Sex-specific Effects.

PRESENTING AUTHOR

**Marc Suárez-Calvet, PhD, MD**

SESSION DETAILS

Interpretation and clinical applicability of blood biomarkers of Alzheimer's disease across contexts, settings, and health care systems.

📍 ICC AUDITORIUM.



### POSTERS

Tuesday-1134

#### Blood Palmitoleic Acid Is Associated With Brain Structural Markers Of Neurodegeneration In Individuals At Risk Of Alzheimer's Disease.

PRESENTING AUTHOR

**Eugenia Domingo-Güell, MSc**

AREA

Public Health: Population Health Prevention Strategies.

Tuesday-0396

#### Longitudinal remote speech biomarkers enable early detection of Alzheimer's disease pathology-related cognitive change in individuals with Subjective Cognitive Decline.

PRESENTING AUTHOR

**Clàudia Porta-Mas, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

Tuesday-1158

#### Multimodal Intervention Intensity and Change in Dementia Risk: A Harmonized Analysis Across Five Prevention Trials.

PRESENTING AUTHOR

**Natàlia Soldevila-Domenech, PhD**

AREA

Public Health: Population Health Prevention Strategies.

Tuesday-0927

#### Area Alzheimer: Design, Implementation And Evaluation Of A User-centred Digital Platform For Informal Alzheimer's Caregivers.

PRESENTING AUTHOR

**Desiree Piromalli, MSc**

AREA

Dementia Care Research and Psychosocial Factors: Dementia Care and Health Services Research.

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## AAIC

TUESDAY, JULY 14TH (2/2)



### POSTERS (cont.)

Tuesday-0310

#### Plasma proteome profiling identified biomarkers for the differential diagnosis and molecular staging of neurodegenerative dementias.

PRESENTING AUTHOR

**Marta del Campo, PhD**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

Tuesday-1148

#### Alzheimer Without Myths: An Interactive Community Program Addressing Misconceptions and Promoting Brain Health Behaviors.

PRESENTING AUTHOR

**Nina Gramunt, PhD**

AREA

Public Health: Population Health Prevention Strategies.

Tuesday-0417

#### Vascular Injury and Glial Biomarkers Moderate the Association Between Neurodegeneration and Cognitive Decline in Preclinical Alzheimer's Disease.

PRESENTING AUTHOR

**Anna Coward, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

Tuesday-0487

#### Prognostic Value Of Blood-based Phosphorylated Tau Biomarkers And NfL By Amyotrophic Lateral Sclerosis Clinical Phenotype.

PRESENTING AUTHOR

**Paula Ortiz, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

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## AAIC

WEDNESDAY, JULY 15TH (1/2)



### FEATURED RESEARCH SESSION

4:15 - 5:45 pm (BST)

#### CSF Proteomics Reveals An MCI-specific Enrichment Of Neuronal-structure Pathways Associated With WMH.

PRESENTING AUTHOR

**Gerard Temprano-Sagrera, PhD**

SESSION DETAILS

Cerebrovascular Contributions and Multi-Omics in Brain Aging.

ROOM: GEORGE V 1/2.



### POSTERS

Wednesday-0527

#### Effect of parity and $\beta$ -amyloid on cognition and hippocampal volume in postmenopausal women.

PRESENTING AUTHOR

**Clara Gally, MSc**

AREA

Biomarkers: Neuroimaging.

Wednesday-0191

#### Better Slow-wave Sleep Quality Associates With Better Glymphatic Function And Slows Down Cognitive Decline In Preclinical AD.

PRESENTING AUTHOR

**Núria Tort-Colet, PhD**

AREA

Basic Science and Pathogenesis: Human Neuropathology.

Wednesday-0945

#### Optialz: User-centred Optimization Of A Digital Dplatform Supporting People With Demencia, Caregivers And Professionals.

PRESENTING AUTHOR

**Desiree Piromalli, MSc**

AREA

Dementia Care Research and Psychosocial Factors: Dementia Care and Health Services Research.

Wednesday-1272

#### Midlife Cardiovascular Risk And Amyloid Status Interact To Accelerate Cognitive Decline In Cognitively Unimpaired Individuals.

PRESENTING AUTHOR

**Lidia Mulet Pons, PhD**

AREA

Developing Topics: Clinical Manifestations.

Explore all our contributions at the conference

## AAIC

WEDNESDAY, JULY 15TH (2/2)



### POSTERS (cont.)

**Wednesday-0404**

#### Autoencoder-based Deep Learning Of CSF Proteomics Uncovers Sex-associated Latent Factors For Alzheimer's Disease.

PRESENTING AUTHOR

**Chiara Zambon, MSc**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

**Wednesday-0347**

#### Enhanced Identification Of Preclinical Alzheimer's Disease Using Repeated Plasma P-tau217 Measurements.

PRESENTING AUTHOR

**Gemma Salvadó, PhD**

AREA

Biomarkers: Biomarkers (non-neuroimaging).

**Wednesday-1286**

#### Short-term And One-week Delayed Recall Latent Trajectory Analysis As A Sensitive Cognitive Marker Of Early Alzheimer's Disease Pathology.

PRESENTING AUTHOR

**Ana Perez, MSc**

AREA

Developing Topics: Clinical Manifestations.

**Wednesday-0619**

#### Dissociable Network Topologies Are Associated With Cognitive And Hippocampal Resilience In Ageing And Preclinical Alzheimer's Disease.

PRESENTING AUTHOR

**Maria Pujol-Torrens, MSc**

AREA

Biomarkers: Neuroimaging.

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## AAIC FOR ALL

THURSDAY, JULY 16TH



### AAIC FOR ALL CLINICIANS

10:00 - 11:30 am (BST)  ALSO ONLINE

#### Clinical Practice Guideline: Blood Biomarkers In Alzheimer's Disease.

PRESENTING AUTHOR

**Marc Suárez-Calvet, MD, PhD**

 EXCEL LONDON, U.K., AND ONLINE.