

Explore **BBRC research**
at the **AAIC 2022**

July 31 – August 4, 2022
San Diego, USA and Online

Alzheimer's Association
International Conference®

A GLOBAL FORUM
TO ADVANCE DEMENTIA SCIENCE



FEATURED RESEARCH SESSIONS

Monday, August 1

9:30 am (Pacific) / 6:30 pm (CEST)

Evaluating the sensitivity of Centiloid quantification to pipeline design and image resolution.

> PRESENTING AUTHOR

Mahnaz Shekari, MSc

> SESSION DETAILS:

**VIRTUAL FEATURED RESEARCH
OR FOCUSED TOPIC SESSION**

Progressing the clinical and technical value
of amyloid PET in dementia - the AMYPAD
experience.

Thursday, August 4

8:20 am (Pacific) / 5:20 pm (CEST)

Stress, anxiety and depression in older adults at increased risk for cognitive decline: association with biomarkers and sex/gender differences.

> PRESENTING AUTHOR

Eider Arenaza-Urquijo, PhD

> SESSION DETAILS:

**VIRTUAL FEATURED RESEARCH
OR FOCUSED TOPIC SESSION**

Moving the focus beyond education in
neuropathology and imaging studies of
reserve: brain mechanisms, psychological
factors, and nicotine mimetics.



ORAL SESSIONS

Sunday, July 31

11:45 am (Pacific) / 8:45 pm (CEST)

[18F]RO-948 Tau PET Retention and Correlation with Fluid Tau Biomarkers in the Early AD Continuum.

> PRESENTING AUTHOR

Juan Domingo Gispert, PhD

> SESSION DETAILS:

HYBRID ORAL SESSION

Neuroimaging: PET studies: novel markers
and applications.

Sunday, July 31

2:35 pm (Pacific) / 11:35 pm (CEST)

Multiparity and brain-age interact with amyloid aggregation to determine cognitive performance in cognitively unimpaired middle- aged women.

> PRESENTING AUTHOR

Anna Brugulat-Serrat, PhD

> SESSION DETAILS:

HYBRID ORAL SESSION

Neuroimaging: Imaging early brain changes
in AD and aging.

ORAL SESSIONS

Monday, August 01
03:03pm (Pacific) / 12:03 am +1d (CEST)

Air pollution has a more deleterious effect on Alzheimer's disease biomarkers in genetic predisposition to larger hippocampal volumes.

- > PRESENTING AUTHOR
Natalia Vilor-Tejedor, PhD
- > SESSION DETAILS:
VIRTUAL ORAL SESSION
Epidemiology: Air pollution, the built environment, and cognition.

Tuesday, August 2
09:35 am (Pacific) / 06:35 pm (CEST)

A head-to-head comparison of plasma phosphorylated tau assays in the real-world memory clinic.

- > PRESENTING AUTHOR
Marc Suárez-Calvet, MD, PhD
- > SESSION DETAILS:
HYBRID ORAL SESSION
Biomarkers (non-neuroimaging): Plasma biomarkers for the diagnosis of AD and Down syndrome.

Thursday, August 4
10:05 am (Pacific) / 7:05 pm (CEST)

Becoming physically active or maintaining physical activity during midlife is associated with biomarkers of amyloid-beta, microglia, and temporal lobe integrity.

- > PRESENTING AUTHOR
Müge Akinci, MSc
- > SESSION DETAILS:
HYBRID ORAL SESSION
Prevention (non-pharmacological): Exercise and Cognition: More evidence from across the lifespan.

POSTERS

Sunday, July 31

Polygenic determinants of White Matter Hyperintensities and sex-specific genetic profiles in the Alzheimer's continuum.

- > PRESENTING AUTHOR
Patricia Genius, MSc
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Plasma biomarkers associations with cognitive change in preclinical Alzheimer's disease.

- > PRESENTING AUTHOR
Marta Milà-Alomà, PhD
- > SESSION DETAILS:
Biomarkers: Biomarkers (non-neuroimaging).

Genetically predicted Telomere Length and its relationship with Alzheimer's disease and Life Expectancy.

- > PRESENTING AUTHOR
Blanca Rodríguez-Fernández, MSc
- > SESSION DETAILS:
Public Health: Epidemiology.

Voxel-wise Staging of Tau Pathology using [18F] RO-948 PET in the Early AD Continuum.

- > PRESENTING AUTHOR
Mahnaz Shekari, MSc
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Overestimation of performance after a memory task in cognitively unimpaired individuals is related to lower cortical thickness in Alzheimer's disease vulnerable

regions and to executive decline, particularly in men.

- > PRESENTING AUTHOR
Gonzalo Sánchez-Benavides, PhD
- > SESSION DETAILS:
Clinical Manifestations: Neuropsychiatry and Behavioral Neurology.

Monday, August 01

Re-examining the impact of adjusting for education and sex the RBANS delayed memory score: Implications on the cut-offs used to detect cognitive impairment in prodromal Alzheimer's disease. Data from the EPAD-LCS study.

- > PRESENTING AUTHOR
Gonzalo Sánchez-Benavides, PhD
- > SESSION DETAILS:
Clinical Manifestations: Neuropsychology.



POSTERS

Monday, August 01

Associations between brain iron deposition and structural Alzheimer's disease signature in cognitively unimpaired adults.

- > PRESENTING AUTHOR
Laura Stankeviciute, MSc
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Functional brain networks reorganization in the absence of medial temporal lobe structures: an example of neuroplasticity.

- > PRESENTING AUTHOR
Eider Arenaza-Urquijo, PhD
- > SESSION DETAILS:
Basic Science and
Pathogenesis: Genetics;
Human Neuropathology.

Evaluating the sensitivity of Centiloid quantification to pipeline design and image resolution.

- > PRESENTING AUTHOR
Mahnaz Shekari, MSc
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Sex differences in CSF biomarkers profile of accelerated biological aging individuals at risk of Alzheimer's disease.

- > PRESENTING AUTHOR
Blanca Rodríguez-Fernández, MSc
- > SESSION DETAILS:
Public Health:
Epidemiology.

Tuesday, August 02

Self-reported sleep quality interacts with Alzheimer's disease biomarkers on brain structure and metabolism in cognitively unimpaired adults.

- > PRESENTING AUTHOR
Laura Stankeviciute, MSc
- > SESSION DETAILS:
Public Health: Prevention
(nonpharmacological).

Impact of CSF pTau/A β 42 ratio on brain structure and metabolism in middle-aged cognitively unimpaired individuals.

- > PRESENTING AUTHOR
Raffaele Cacciaglia, PhD
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Wednesday, August 03

Sex modifies the association between hippocampal blood flow and episodic memory in cognitively unimpaired individuals.

- > PRESENTING AUTHOR
Anna Brugulat-Serrat, PhD
- > SESSION DETAILS:
Basic Science and
Pathogenesis: Human
Neuropathology.

Structural and metabolic brain correlates of excess A β accumulation at the earliest AD continuum.

- > PRESENTING AUTHOR
Raffaele Cacciaglia, PhD
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Biological Brain Age Prediction Using Machine Learning on Structural Neuroimaging Data: Multi-Cohort Validation

Against Biomarkers of Alzheimer's Disease and Neurodegeneration.

- > PRESENTING AUTHOR
Irene Cumpulido-Mayoral, MSc
- > SESSION DETAILS:
Biomarkers: Neuroimaging.

Exploring the role of sleep in Alzheimer's disease: The AlfaSleep project.

- > PRESENTING AUTHOR
Oriol Grau-Rivera, MD, PhD
- > SESSION DETAILS:
Public Health: Epidemiology



SHORT TALKS

Monday, August 01

8:00 am (Pacific) / 5:00 pm (CEST)

Modifying effect of AD pathology in the association between CSF synaptic biomarkers and brain function and structure in preclinical Alzheimer.

- > PRESENTING AUTHOR
Marta Milà-Alomà, PhD
- > SESSION DETAILS:
VIRTUAL LIGHTNING PRESENTATION ROUND
Fluid biomarkers of AD pathology.

Wednesday, August 03

8:08 am (Pacific) / 5:08 pm (CEST)

The Effects of Stressful Life Events on Alzheimer's Disease Biomarkers, Neuroinflammation and Brain Integrity in Later Life: A Life Course Perspective.

- > PRESENTING AUTHOR
Eleni Palpatzis, MSc
- > SESSION DETAILS:
HYBRID LIGHTNING PRESENTATION ROUND
Modifiable Risk Factors and Brain Biomarkers.