

PRESENTATION TYPES:

Featured Research Sessions

Oral Sessions

Posters

Other Activities

Collaborations



**FEATURED  
RESEARCH SESSIONS**

Wednesday, **July 28, 10:00 AM / 11:15 AM (MT)**

**Sex, caregiver status and amyloid positivity predict increased anxiety and depression during the Covid19-related confinement.**

Presenting author  
Muge Akinci, MSc

Session details: Hybrid Session #53907  
3-H-06 The impact of COVID-19 pandemic on reserve and resilience and vice versa: which are the main consequences on reserve and the main determinants of emotional resilience?



**ORAL  
SESSIONS**

Monday, **July 26, 1:00 PM / 2:15 PM (MT)**

**Association between APOE-ε4 allele and CSF amyloid in memory performance differ by sex.**

Presenting author  
Anna Brugulat-Serrat, PhD

Session details: Hybrid Oral Session #55181  
1-HO-II Neuropsychology: Race, Ethnicity, Sex Differences.

Tuesday, **July 27, 10:00 AM / 11:15 AM (MT)**

**Imaging neurodegeneration markers are associated with multiple pathophysiological mechanisms in the early stages of the Alzheimer's continuum.**

Presenting author  
Gemma Salvadó, MSc

Session details: Virtual Oral Session #52293  
2-VO-04 Neuroimaging: Multimodal Imaging.

Wednesday, **July 28, 1:00 PM / 2:15 PM (MT)**

**Perivascular spaces are associated with tau pathophysiology and synaptic dysfunction in early Alzheimer's continuum.**

Presenting author  
Natalia Vilor-Tejedor, PhD

Session details: Virtual Oral Session #51799  
3-VO-09 Neuroimaging: Neuroimaging Biomarkers - Clinical Implications.

Thursday, **July 29, 10:00 AM / 11:15 AM (MT)**

**Distinctive effect of biological sex in AD-related CSF and plasma biomarkers.**

Presenting author  
Marta Milà-Alomà, MSc

Session details: Virtual Oral Session #52959  
4-VO-05 Biomarkers (non-neuroimaging): Sex and Race Interactions with Fluid AD Biomarkers.

Friday, **July 30, 10:00 AM / 11:15 AM (MT)**

**Higher levels of the astrocytic marker CSF YKL40 are associated to better memory performance only in amyloid positive individuals with subjective cognitive decline.**

Presenting author  
Gonzalo Sánchez-Benavides, PhD

Hybrid Oral Session #53463  
5-HO-08 Neuropsychology: Cognitive, Clinical and Biomarker Features of Preclinical Disease.



**POSTERS**

alzheimer's  
association

**AAIC**21

AAIC Poster #52507

**Structural, metabolic and cognitive characteristics of cognitively unimpaired subjects with mismatching  $\beta$ -amyloid biomarkers.**

Presenting author: Juan Domingo Gispert, PhD

AAIC Poster #52996

**Association between telomere length and cognitive function among cognitively unimpaired individuals at risk of Alzheimer's disease.**

Presenting author: Blanca Rodríguez-Fernández, MSc

AAIC Poster #53173

**Sex differences in genetic susceptibility of hippocampal subfields: a polygenic association study.**

Presenting author: Patricia Genius, BSc

AAIC Poster #53531

**Association of body mass index with brain structure and biomarkers of inflammation in cognitively unimpaired middle-aged adults with and without evidence of  $\beta$ -amyloid pathology.**

Presenting author: Oriol Grau-Rivera, MD, PhD

AAIC Poster #53588

**Brain structural alterations in cognitively unimpaired individuals with discordant amyloid- $\beta$  PET and CSF A $\beta$ 42 status: findings using Machine Learning.**

Presenting author: Irene Cumplido-Mayoral, MSc

AAIC Poster #53650

**Synergistic effects of CSF A $\beta$ 42 and p-Tau on functional resting-state connectivity in cognitively unimpaired individuals.**

Presenting author: Raffaele Cacciaglia, PhD

AAIC Poster #53661

**Prediction of amyloid pathology in cognitively unimpaired individuals using structural MRI.**

Presenting author: Irene Cumplido-Mayoral, MSc

AAIC Poster #53806

**Impaired default mode network along with increased functional connectivity of the medial temporal lobe as a function of CSF p-Tau/A $\beta$ 42 ratio in cognitively unimpaired individuals.**

Presenting author: José María González-de-Echávarri, MD

AAIC Poster #55401

**Subjective cognitive decline is associated with higher anxiety and depression during the Covid19-related confinement.**

Presenting author: Gonzalo Sánchez-Benavides, PhD

AAIC Poster #55540

**Current Status and Quantitative Results of the AMYPAD Prognostic and Natural History Study.**

Presenting author: Juan Domingo Gispert, PhD

AAIC Poster #55726

**Evaluating robustness of the Centiloid scale against variations in amyloid PET image resolution.**

Presenting author: Mahnaz Shekari, MSc

Developing Topics Poster #57495

**Cross-sectional associations between sleep quality reports and core Alzheimer's disease biomarkers in cognitively unimpaired adults from the European Prevention of Alzheimer's Dementia Longitudinal Cohort Study (EPAD LCS).**

Presenting author: Laura Stankeviciute, MSc

Developing Topics Poster #57546

**Amyloid aggregation in temporal regions is associated with longitudinal memory decline in cognitively unimpaired Apoe- $\epsilon$ 4 carriers.**

Presenting author: Anna Brugalat-Serrat, PhD



## POSTERS

alzheimer's  
association

AAIC 21

### Developing Topics Poster #57608

**Machine learning on combined neuroimaging and plasma biomarkers for triaging participants of secondary prevention trials in Alzheimer's Disease.**

Presenting author: Irene Cumplido-Mayoral, MSC

### Developing Topics Poster #57768

**Data-driven approach for early detection of pathological pathways in middle-aged adults with family history of sporadic Alzheimer's disease.**

Presenting author: Cleofé Peña-Gomez, PhD



## OTHER ACTIVITIES

**Anna Brugulat-Serrat**, will chair the Hybrid Oral Session 1-HO-11 *Neuropsychology: Race, Ethnicity, Sex Differences*.

**Eider M Arenaza-Urquijo**, will chair the Hybrid Oral Session 5-HO-08 *Neuropsychology: Cognitive, Clinical and Biomarker Features of Preclinical Disease*.



## COLLABORATIONS

### Featured Research Sessions

#### Virtual Session #51944

Neuroimaging in neurodegeneration. A global diversity problem.

#### Oral Sessions

#### Virtual Oral Session #56186

Plasma p-tau231 in the Alzheimer's disease continuum: a multi-cohort evaluation of diagnostic performance, detection of A $\beta$  pathology and preclinical application.

#### Hybrid Oral Session #55700

Successful cognitive aging definitions and associated demographic, biomarker profiles and lifestyles in the 80+ MCSA population.

#### Hybrid Oral Session #51342

Midlife subclinical atherosclerosis and cardiovascular risk factors linked to hypometabolism in Alzheimer's disease relevant regions.

#### Hybrid Oral Session #55409

Regional amyloid accumulation predicts memory decline in initially cognitively unimpaired individuals.

### Posters

#### AAIC Poster #49693

Sex differences in the behavioral variant of frontotemporal dementia: a new window to executive and behavioral reserve.

#### AAIC Poster #55076

Distinct patterns of associations between cognitive performance and Alzheimer's disease biomarkers in a multinational cohort of clinically normal older adults.

#### AAIC Poster #55273

Men and women show partly distinct effects of physical activity on markers of brain integrity.

#### AAIC Poster #55417

Data-driven evidence for three distinct patterns of amyloid- $\beta$  accumulation.

#### Developing Topics Poster #57528

Clinical reporting following the quantification of cerebrospinal fluid biomarkers in Alzheimer's disease: an international overview.

#### AAIC Poster #55425

Differential gray matter connectivity correlates of CSF biomarkers: results from the EPAD cohort.

#### AAIC Poster #55495

Neuroimaging-Derived Phenotypes in the European Prevention of Alzheimer Dementia (EPAD) Cohort Study.

#### AAIC Poster #55894

Cognitive function and neuroimaging correlates in a subjective cognitive decline population within a multimodal intervention supplemented with green tea extract (PENSA Study): preliminary results of a voxel-based morphometry study.

#### AAIC Poster #55940

Quantitative Amyloid PET in the AMYPAD Diagnostic and Patient Management Study.

#### AAIC Poster #51683

Optimal parametric imaging methods for dual-time-window [18F]Flutemetamol and [18F]Florbetaben PET studies.

### ACKNOWLEDGMENTS



"la Caixa" Foundation

