

## Programme

08:00	Registration	
08:25	Welcome and opening	
08:30	Cognitive assessments	Session Chairs, Viktorija Smith & Dr Rhian Convery
09:30	Physiological and behavioural biomarkers	Session Chairs, Kalliopi Mavromati & Rebecca Egerton
10:30	Refreshments and poster viewing	
11:00	Neuroimaging	Session Chairs, Dr Michael Stringer & Dr Darragh O'Brien
12:00	Lunch and poster viewing	
13:00	Fluid Biomarkers (Livestream)	Session Chair, Dr Amanda Heslegrave
14:00	AAIC Neuroscience Next Awards	Session Chair, Dr Oz Ismail
15:00	Introduction to ISTAART	Hosts: Love Onwuzuruike, Rahul Sidhu, Rebecca Egerton
15:15	Refreshments	
15:30	Technology biomarkers	Session Chairs, Dr Ria Kodosaki & Dr Mosi Li
16:30	Panel discussion - Plenary Speakers	Session Chair, Dr Selina Wray
17:00	Closing & local prizes	

# Cognitive Assessments

Senior Plenary



**Professor Masud Husain, University of Oxford**

New methods and insights for assessing cognition in research and clinical settings.

ECR Plenary



**Dr Chloe Fawns Ritchie, The University of Edinburgh**

Remote cognitive assessment: investigating the impact of device type on cognitive test performance.

Lightning



**Toya Pauwels Romero, University College London**

Performance on gene specific cognitive composites GENFI Cog in the Genetic Frontotemporal dementia GENFI study.

Lightning



**Dr Laura Stankeviciute, University of Gothenburg**

Associations between plasma biomarkers and digital cognition for preclinical Alzheimer's disease in the population based REAL AD study.

Lightning



**Dr Kirsty Lu, University College London**

Associations between biomarkers of preclinical Alzheimer's disease at age 70 and cognitive performance over the subsequent 7 years.

Lightning



**Dr Alex Kaula, Cambridge Cognition**

Novel PAL RT measures: development, clustering, association with plasma P tau217.

**Followed by Q&A**

**Physiological & Behavioural biomarkers**

Senior Plenary



**Professor Francesca Cormack, Cambridge Cognition**

Exploring research into diverse markers that reflect movement, communication and interaction.

ECR Plenary



**Dr Thomas Wilcockson, Loughborough University**

Eye movement tasks can predict cognitive decline in preclinical stages of dementia.

Lightning



**Christine Weaver, The University of Edinburgh**

Acoustic speech analysis and machine learning in the diagnosis and monitoring of neurodegenerative disorders.

Lightning



**Dr Matt Bancroft, University College London**

Gait in atypical dementia: a comparison between posterior cortical atrophy, Alzheimer's disease and Lewy body disease.

Lightning



**Dr Kiran KG Ravindran, UKDRI University of Surrey**

Extracting essential sleep aspects from consumer sleep technologies in older adults and people living with dementia.

Lightning



**Dr George Devitt, University Hospital Southampton NHS FT**

Holistic optical biomarkers to transform dementia diagnosis HOpE.

**Followed by Q&A**

## Neuroimaging

Senior Plenary



**Professor David Cash, University College London**

Exploring the latest research and advances in imaging techniques and their application to dementia and related disorders.

ECR Plenary



**Dr Andreia Rocha, University of Pittsburgh**

Tracking tau spread: MK6240 assigns higher Braak stages than Flortaucipir.

Lightning



**Harry Crook, University of Cambridge**

TSPO PET binding in white versus grey matter in FTLD..

Lightning



**Lorenzo Barcellos, Universidade Federal do Rio Grande do Sul**

Brain atrophy patterns associate with biological staging defined by PET in preclinical Alzheimer's disease.

Lightning



**Grace Gillis, University of Oxford**

Added value of UK Biobank aligned multimodal MRI in a real world memory clinic setting.

Lightning



**Dr Fatemeh Tabassi Mofrad, University of Oxford**

Volumetric biomarkers in subcortical structures for dementia detection.

**Followed by Q&A**

## Fluid Biomarkers

Senior Plenary



**Dr Marc Suarez Calvet, BarcelonaBeta**

Exploring the latest in fluid biomarkers, to diagnose dementias.

Lightning



**Ellie Crispin, UKDRI University College London**

Measuring Nptx1 in extracellular vesicles from genetic frontotemporal dementia mutation carriers.

Lightning



**Dr Sonia Wagner Reguero, Fundación CIEN**

Linking seeding to pathology: insights from  $\alpha$  synuclein RT QuIC in postmortem CSF.

Lightning



**Hanjun Zhao, University of Oxford**

Plasma proteomic signatures of Alzheimer's neuropathology: insights from Bio Hermes study.

Lightning



**Dr Sujin Kang, Imperial College London**

Organ specific proteomic aging and cognitive performance.

### LIVESTREAM

This session will be delivered both in person and online via the AAIC Neuroscience Next Event Platform find out more [alz.org/neurosciencenext](https://alz.org/neurosciencenext)

Followed by Q&A

# Technology Biomarkers

Senior Plenary



**Dr Cynthia Sandor, UKDRI Imperial College London**

Exploring emerging tools and technologies that support measurement, diagnosis and monitoring.

ECR Plenary



**Dr Lukas Hughes Noehrer, The University of Manchester**

Exploring emerging tools and technologies that support measurement, diagnosis and monitoring.

Lightning



**Dr Zeke Steer, Milbotix**

Smart Socks gathering data to inform research, diagnosis and disease.

Lightning



**Labhpreet Kaur, The University of Sheffield**

Automatic analysis of informant based collateral information for dementia detection: a large language model study.

Lightning



**Luna Nordenström, University College London**

Online keyboard tapping as a digital biomarker for early frontotemporal dementia.

Lightning



**Dr Ahmet Begde, University of Oxford**

Digital cognition plus plasma P tau217 and aβ42 40 predict Alzheimer's progression.

**Followed by Q&A**