

## **The Basics of Fluid Biomarkers for Alzheimer's disease and other dementia**

Friday, July 26, 2024 | 8:00a.m. – 5 p.m.  
Marriott (Grand Ballroom H) — Philadelphia, USA  
All times are in Eastern Standard Time  
In-person attendance only

### **Overview**

The Basics of Fluid Biomarkers in Alzheimer's Disease was organized by leading scientists in this field from the ISTAART Biofluid Based Biomarker PIA (BBB-PIA) and by the Alzheimer's Association Global Biomarkers Standardization Consortia (GBSC). The fluid biomarkers field for Alzheimer's disease (AD), and other causes of dementia is rapidly expanding. This workshop aims to provide participants with an in-depth understanding of the fundamental principles, inherent limitations, and clinical and research applications of the most common AD biomarkers present in cerebrospinal fluid (CSF) and blood. The workshop is aligned with ongoing research efforts in other fields and thus also provides an overview of the status of fluid biomarkers for other causes of dementia. This workshop will include fundamental laboratory-focused sessions that capture the basics of neurochemistry, sample pre-analytics, 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. These sessions will cover both standard AD biomarkers and emerging biomarkers and novel platforms in development. Lectures will include interactive poll questions within presentations followed by Q&A sessions and discussions to ensure that participants understand the current and future state of fluid biomarkers.

### **Organizing Committee**

- Marta del Campo, Barcelona  $\beta$  Brain Research Center
- Charlotte Teunissen, Amsterdam UMC
- Alicia Algeciras-Schimnich,
- Thomas Karikari, University of Pittsburgh
- Jeff Dage, Indiana University School of Medicine

### **Presenters**

- Kaj Blennow, Sahlgrenska Academy at the University of Gothenburg
- Michelle Mielke, Wake Forest University School of Medicine
- Pedro Rosa-Neto, Translational Neuroimaging Laboratory
- Sebastian Palmqvist, Lund University
- Jonathan Schott, Dementia Research Centre
- Inge Verberk, Vrije Universiteit Amsterdam
- Henrik Zetterberg, Sahlgrenska Academy at the University of Gothenburg

## **Target Audience**

This ISTAART Immersive workshop is targeted to attendees who are in clinical practice, research and teaching roles and is pitched at a beginner-intermediate-advanced level.

## **Learning Objectives**

1. Define the fundamental principles, inherent limitations, and clinical and research applications of the most common biomarkers used in AD and found in CSF and blood.
2. Summarize the fundamentals of CSF physiology, basics of neurochemistry, technical issues of sample collection, storage, analysis methods, quality control, and regulatory issues.
3. Discuss the latest in cutting-edge biomarker technology, including blood-based biomarkers, with the current understanding of how biomarkers track the progression in AD and their use in other dementias.

## **Registration**

Educational workshops are offered for in-person attendance only. Workshops require a separate registration fee in addition to AAIC full conference registration, or they may be purchased as stand-alone events.

**Agenda**

Time	Session Details	Speakers and Moderator