



## **Biofluid Based Biomarkers PIA**

### **Scientific Session**

Introductions of Presenters by Henrik Zetterberg (outgoing Chair) and Charlotte Teunissen (incoming Chair)

Presentations from top scoring abstracts

- 1) Yanaika S. Hok-A-Hin – PhD student from the Netherlands presenting on novel biomarkers for AD: Thimet oligopeptidase as a potential CSF biomarker for AD (cross-platform validation study)
- 2) Wagner Brum – PhD student at University of Gothenburg presenting on a 3-pronged approach for enhancing prognostic utility of CSF AD biomarkers
- 3) Ashish Kumar – Researcher from Wake Forest Baptist Health, North Carolina, USA presenting on the effect of a modified Mediterranean-ketogenic diet on MCI via plasma neuron-derived exosomes
- 4) Sherif Bayoumy – From VUMC Amsterdam to speak on comparisons of blood phospho tau (181,217 and 231) Simoa assays for AD detection
- 5) Karly Cody – researcher from Wisconsin AD research centre, presenting on amyloid, tau and neurodegeneration CSF biomarkers and longitudinal cognitive decline in preclinical AD
- 6) Anna Dittrich – PhD student from University of Gothenburg presenting on differential associations of plasma and CSF NFL with biomarker evidence of neurodegeneration in general populations
- 7) Laia Montoliu-Gaya; 2021 Best Abstract Award - Post-doctoral Researcher from University of Gothenburg presenting on mass spec measurements of 6 site-specific tau phosphorylation in CSF and blood of AD patients

Q&A

### **Annual Business Meeting**

**145 members registered for this program and 89 attended the live presentation.**

Welcome address was given by Rebecca Edelmayer

Henrik Zetterberg, Outgoing Chair, provided a brief review of the annual Report.

The Programs Report was given by Fabricio Oliveira, Incoming Programs Chair.

He highlighted two upcoming BBB-PIA hosted webinars, and urged for registration to these events. This included "Biofluid Based Biomarkers in Neuropsychiatric Syndromes - The First Webinar", October 6th, 2021: [https://act.alz.org/site/R?i=LjKYtEFmhqoGxOzt60TljlleCfyA-D9RtgsCVX-sacZQN18lo11nv3w](https://act.alz.org/site/R?i=LjKYtEFmhqoGxOzt60TljlleCfyA-D9RtgsCVX-sacZQN18lo11nv3w;); "Clinical implementation of blood-based biomarkers: global perspectives, science and health economics", October 12th, 2021:

<https://act.alz.org/site/R?i=pS6MFy2YHdi2uVQmgxmWWRxX3wmdWCUmGcSWgrhD57NAqHp1H6Ombw>

Fabricio also discussed the possibility of a cross-PIA FRS for AAIC>22 with the Immunity and Neurodegeneration PIA, who approached the BBB-PIA with a proposal for such collaboration. Abstracts will be sought from EC members from both PIAs, and also potentially a call for abstracts will be issued to the BBB-PIA membership

Chi Udeh-Momoh, Communications Chair provided a brief overview of Communications and Social Media plans and goals for the coming year, including a new initiative to provide highlight of special topics through member interview via podcasts that will be shared, also through social media and ISTAART. She urged members to engage with each other via social media platforms by joining the BBB-PIA LinkedIn group - <https://www.linkedin.com/groups/13628964/>; On Twitter? Follow @ISTAART and use #FluidMarkersPIA to share news.

Work Group Reports were provided by the WG contacts and leads

- Blood Biomarkers for Alzheimer's Disease in Down Syndrome (Henrik Zetterberg)
- Biofluid Based Biomarkers in Frontotemporal Dementia and Related Disorders (cross-collaboration between BBB PIA and FTD PIA) (Marta del Campo, Incoming General Member): paper under review
- Biofluid Based Biomarkers and Neuroimaging PIA Cross-Collaboration (Charlotte Teunissen, Incoming Chair): meeting on 4<sup>th</sup> of October, If interested to participate, please contact From Charlotte Teunissen: for the cross-BBB-Imaging PIA working group at [c.teunissen@amsterdamumc.nl](mailto:c.teunissen@amsterdamumc.nl)
- Biofluid Based Biomarkers in Neuropsychiatric Syndromes (Fabricio Oliveira): contact Fabricio Oliveira: [fabricioferreiradeoliveira@hotmail.com](mailto:fabricioferreiradeoliveira@hotmail.com). <http://www.linkedin.com/in/fabricioferreiradeoliveira>
- Biofluid Based Biomarkers in TBI (including concussion and neurodegenerative subtypes) (Andreas Jeromin, General Member): call for participants for white paper on biomarkers associated with cognitive decline based on world trade centre responders-related brain syndromes that involved unique neuropsychiatric continuum of PTSD-like/ AD-like pathologies; peripheral biomarker based classification to guide interventions before window of opportunity for therapeutic benefit closes; multi-omic approach. Please contact Sam Gandy and Andreas Jeromin to participate.
- Contexts of Use and Statistical Methods (Jeff Dage, Work Group Co-Chair)
- CSF Reporting (Sylvain Lehmann, Outgoing General Member)
- Exosomes in Dementia Research (Robert Rissman, General Member)
- Saliva Biomarkers in Dementia Research (Paul Slowey, Work Group Co-Chair)

The Incoming Chair Charlotte Teunissen provided a brief review of 2021 - 2022 Goals. Next meeting will address how the BBB-PIA EC and members can help move these efforts forward.

Handover speech was made by outgoing chair, Henrik Zetterberg which was followed by a Thank you address by Incoming Chair as well as the Closing remarks.