PRELIMINARY SCIENTIFIC PROGRAM

March	h 19,	2024
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9:20- 9:30	Opening Remarks	
Andrei Kovac	Institute of Neuroimmunology SAS	Slovakia

9:30 - 10:40 **PLENARY SESSION 1**

(Chair: Andrej	Kovac, Slovak Academy of Sci <mark>ences, Slovak)</mark>
9:30- 10:00	Anti-Amyloid Antibody (AAb) Binding to Amyloid Precursor Protein (APP) as a Mechanism for Amyloid Related Imaging Abnormalities (ARIAs) William A Banks, University of Washington, Seattle, USA
10:00- 10:20	Regulation of claudin-5 at the blood brain barrier in health and disease Matthew Campbell, Trinity College, Dublin, Ireland
10:20-10:40	Translational PET imaging of P-glycoprotein activity at the blood-brain barrier in health and disease Oliver Langer, Medical University of Vienna
10:40-11:00	Coffee Break
11:00 - 12:00	PLENARY SESSION 2
(Chair: Yoichi N	Aorofuji, Nagasaki University, Japan)
11:00-11:20	Synergistic induction of blood-brain barrier properties in culture models Maria Deli, Biological Research Centre, Szeged, Hungary

11:20-11:40 Development of a novel organ-on-a-chip model combining a human cell-based culture model of the blood-brain barrier and human midbrain organoids

Fruzsina Walter, Biological Research Centre, Szeged, Hungary

11:40-12:00 Development of blood-cerebrospinal fluid barrier model expressing pharmaceutically important transporters

Krutika Khiratkar, Institute of Neuroimmunology SAS, Slovakia

12:00-13:00 Lunch

POSTER DISCUSSION 13:00-14:00

14:00- 15:10 **PLENARY SESSION 3**

(Chair: Maria Deli, Biological Research Centre, Szeged, Hungary)

Penetration of Micro- and Nanoplastics Across the Blood-Brain Barrier: Unveiling 14:00- 14:30

the Influence of Biomolecular Coronas Lukas Kenner, Medical University of Vienna

14:30-14:50 Tick-borne encephalitis virus at BBB and behind

Martin Palus, Veterinary Research Institute, Brno, Czechia

14:50-15:10	Drug delivery nanosystem to treat neuroinfections
717	Mangesh Bhide, University of Veterinary Medicine and Pharmacy, Slovakia
15:10-15:30	Nanoparticles decorated with targeting ligand combinations to cross the blood- brain barrier
	Szilvia Veszelka, Biological Research Centre, Szeged, Hungary
15:30-16:00	Coffee Break
16:00- 16:40	PLENARY SESSION 4
(Chair: Jozef H	anes, Institute of Neuroimu <mark>nology</mark> SAS, Sl <mark>ovakia</mark>)
16:00- 16:20	Deciphering the mechanisms involved in the development of breast cancer brain metastases by combining in vitro and ex vivo approaches
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16:20-16:40	Deconvolution identifies cell type specific transcription patterns after loss of DNA methylation in the mouse brain
	Sabine Lagger, University of Veterinary Medicine, Vienna
16:40-17:00	To be announced: Aloïse Mabondzo, Paris Saclay University, Paris, France
17:00- 17:40	PLENARY SESSION 5
(Chair: Mange	sh Bhide, University of <mark>Veterinary Medicine and Pharmacy, Slovakia)</mark>
17:00-17:20	Accumulation of α-synuclein in the brain of mice with DSS-induced colitis
	Fuyuko Takata, <mark>Fukuoka University, Japan</mark>
17:00-17:40	To be announced: Carola Foster, University of Würzburg, Würzburg, Germany
17:40-18:00	Concluding remarks
19:00-22:00	Dinner and Wine tasting