

Thursday, May 11th

8:45 Welcome (Jens Kreisel and Michael Heneka, Luxembourg)

9:00 Plenary Talk 1: Cerebrospinal fluid proteogenomic analyses: identification of novel proteins and therapeutic targets for AD & PD (Carlos Cruchaga, St. Louis)

Session 1 - Genetics

10:00 Evaluating the contribution of biological age in the risk of progressing to dementia (Alfredo Ramirez, Bonn)

10:30 Coffee Break

11:00 Cortical PU.1 ChIPseq profiles uncover a role for PU.1 in microglial polarization (Philip de Jager, New York)

11:30 Step by step: towards a better understanding of the Genetic architecture of AD (Jean-Charles Lambert, Lille)

12:00 Luxembourg National Research Fund presentation

12:15 Lunch and Poster Session

13:30 Plenary Talk 2: Host microbiome interaction in health and disease (Eran Elinav, Rehovot) - *virtual*

Session 2 - Microbiome

14:30 The microbiota-gut-brain axis as a modulator of cognitive function in brain disorders (Anthony Hannan, Melbourne)

15:00 Natural microbiota-shaped immune responses (Barbara Rehermann, Washington)

15:30 Coffee Break

16:00 2 Blitz Talks (F. Evans & J. Rueda-Carrasco)

Session 3 - Microglia

16:15 Microglial dysfunction and brain disease: mechanisms awaiting exploration in compartment-specific neurovascular interactions (Adam Denez, Budapest)

16:45 Autophagy-phagocytosis crosstalk in microglia (Amanda Sierra, Bilbao)

17:15 Mitochondrial metabolism and microglial activity (Alberto Pascual, Sevilla)

17:45 Microglial gene regulatory networks (Nicole Coufal, San Diego)

18:15 Anti-inflammatory clearance of amyloid beta by a novel chimeric phagocytosis inducer (Hyuk Chan Kim, Daejeon)

Friday, May 12th

8:30 Plenary Talk 3: TBD (Renzo Mancuso, Antwerpen)

Session 4 - Cancer

9:30 Brain macrophages in inflammation and cancer (Kiavash Movahedi, Brussels)

10:00 The functional heterogeneity of glioma-associated brain immune cells (Bozena Kaminska, Warsaw)

10:30 Coffee Break

11:00 The early neurodegeneration and immune mechanisms in AD (Stefan Teipel, Rostock)

11:30 Plenary Talk 4: Control of neuron activity by microglia (Anne Schäfer, Cologne)

12:30 Lunch and Poster Session

13:45 2 Blitz Talks (A. Michelucci & A. Mohebiany)

Session 5 - Emerging Targets

14:00 Cerebrospinal fluid immunity in healthy brain aging and neurodegenerative disease (David Gate, Chicago)

14:30 T lymphocytes in aging and animal models of neurodegeneration (Alon Monsonego, Beer-Sheva)

15:00 2 Blitz Talks (O. Gokce & P. Martorell)

15:15 Coffee Break

15:45 Sensing DNA as a danger signal through the cGAS-STING pathway (Andrea Ablasser, Lausanne)

16:15 Plenary Talk 5: TREM2 risk polymorphisms in AD (Marco Colonna, St. Louis)

Session 6 - Inflammation

17:15 Galectin-3 in AD: a future target in AD? (Tomas Deierborg, Lund)

17:45 Inflammation and immune dysfunction in Parkinson's disease: targeting the gut-brain axis to reduce risk and progression (Malú Tansey, Gainesville)

18:15 2 Blitz Talks (C. Cangalaya & S. Brioschi)

18:30 Carousel Dinner and Poster Session

Saturday, May 13th

9:00 Plenary Talk 6: Modeling neurological disease for drug research (Richard Ransohoff, Boston) - *virtual*

Session 7 - Disease Modeling

10:00 Elucidating disease states of glia by CRISPR-based functional genomics (Martin Kampmann, San Francisco)

10:30 Coffee Break

11:00 Brain imaging across scales: studying neuronal-microglial interactions during CNS development (Francesca Peri, Zurich)

11:30 Mechanisms and modulators of alpha-synuclein pathology (Donato Di Monte, Bonn)

12:00 2 Blitz Talks (S. Castro-Gomez & M. Zattoni)

12:15 Lunch

13:30 Plenary Talk 7: Role of APOE and the immune response in tau-mediated neurodegeneration (David Holtzman, St. Louis)

Session 8 - Clinical Aspects of Neuro-inflammation

14:30 Surfing on waves: fluid biomarkers for neuroinflammation in AD (Charlotte Teunissen, Amsterdam)

15:00 Effect of Aging and Amyloid on Viral-Vector Induced Tauopathy (Marcia Gordon, East Lansing / Michigan)

15:30 Coffee Break

16:00 2 Blitz Talks (N. Afang & J. Jauregui-Lozano)

16:15 Genetic analysis of the human microglial transcriptome across disease pathologies (Towfique Raj, New York)

16:45 Immune dysregulation and astrogliosis as potential mechanisms of cognitive decline in late life (Brienne Bettcher, Denver)

17:15 Wrap up and closing (Michael Heneka, Luxembourg)

