



3rd Symposium on

LIPIDS IN BRAIN DISEASES

SEPTEMBER 10-12, 2025



HASSELT, BELGIUM

ORGANIZERS

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PROGRAM

Wednesday, 10 September 2025	
12:00 – 13:00	Registration
13:00 – 13:15	Opening
Session 1	
13:15 – 14:00	Keynote 1: Dr. Fei Yin (Arizona, USA) <i>Astrocytic Lipid Clearance in Neurodegeneration: from Mechanism to Therapeutic Strategy</i>
14:00 – 14:20	Selected oral talk: Sascha J. Koppes-den Hertog <i>Cholesterol regulates astrocyte reactivity and is dysregulated by ApoE4</i>
14:20 – 14:40	Selected oral talk: Marta Turri <i>Inhibition of stearyl-CoA desaturase leads to fatty acid normalization, improved dendritic spine density and neuronal regulation in hippocampus of Alzheimer's disease</i>
14:40 – 15:00	Selected oral talk: Dr. Melissa Birol <i>Tau spreading orchestrates lipid export and metabolic vulnerability in Tauopathies</i>
15:00 – 15:30	Coffee break
Session 2	
15:30 – 16:15	Keynote 2: Prof. Dr. Stephan Kemp (Amsterdam, The Netherlands) <i>Adrenoleukodystrophy, Lipidomics, and Newborn Screening: Connecting Science and Society</i>
16:15 – 17:00	Keynote 3: Dr. Rik van der Kant (Amsterdam, The Netherlands) <i>Coupling of Lipid Metabolism and Immune Function in Human iPSC-Derived Astrocytes</i>
17:00 – 18:30	Reception

PROGRAM

Thursday, 11 September 2025

8:00 – 9:00	Registration
Session 1	
9:00 – 9:45	Keynote 1: Prof. Dr. Agnès Nadjar (Bordeaux, France) <i>Neuroimmunology of Metabolic Resilience</i>
9:45 – 10:05	Selected oral talk: Dr. Anil G Cashikar <i>Role of an oxysterol pathway in neuroinflammation and neurodegeneration</i>
10:05 – 10:25	Selected oral talk: Dr. Julie Jacquemyn <i>Glucosylceramide induced ectosomes propagate pathogenic α-synuclein in Parkinson's disease</i>
10:25 – 10:50	Coffee break
Session 2	
10:50 – 11:35	Keynote 2: Dr. Tess Dierckx (Stanford, USA) <i>Circadian Control of Oligodendroglial Metabolism</i>
11:35 – 11:55	Selected oral talk: Dr. Sam Vanherle <i>Loss of CD36 disrupts OPC differentiation and remyelination in the brain via pro-inflammatory eicosanoid signaling</i>
11:55 – 12:15	Selected oral talk: Dr. Tom van der Wel <i>Genetic and pharmacological inactivation of glycerophosphodiesterase GDE4 promotes oligodendrocyte differentiation and remyelination</i>
12:15 – 13:30	Lunch
Session 3	
13:30 – 13:50	Sponsor talk: Sciex
13:50 – 14:35	Keynote 3: Prof. Dr. Ron Heeren (Maastricht, The Netherlands) <i>Spatial Lipidomics; Translational Research From Cells To Tissue</i>
14:35 – 16:00	Poster session and break
16:00 – 16:45	Keynote 4: Prof. Dr. Özgün Gökce (Bonn, Germany) <i>Immune and Lipid Pathways in Brain Aging and Injury: Insights from Single-Cell and Spatial Transcriptomics</i>
16:45 – 17:05	Selected oral talk: Dr. Andreia Gomes-Duarte <i>AAV-Delivered Anti-PC-OxPL Antibody Fragments: A Novel Therapeutic Approach to Target ALS</i>
18:00	Conference dinner @Lac Bleu, Hasselt

PROGRAM

Friday, 12 September 2025

8:00 – 9:00	Registration
Session 1	
9:00 – 09:45	Keynote 1: Prof. Dr. Johan Swinnen (Leuven, Belgium) <i>Application of Lipidomics Technologies to Unravel Lipid Metabolic Changes Underlying Brain Diseases</i>
9:45 – 10:05	Selected oral talk: Dr. Leandro Cruz Rodriguez <i>Fingolimod's underlying mechanism of action: a multimodal biophysical study using model membranes</i>
10:05 – 10:25	Selected oral talk: Dr. Melanie Loix <i>UBE3A promotes foam cell formation and counters remyelination by targeting ABCA1 for proteasomal degradation</i>
10:25 – 10:50	Coffee break
Session 2	
10:50 – 11:10	Selected oral talk: Gema Muñoz González <i>Lipid profile of normal-appearing myelin in Multiple Sclerosis</i>
11:10 – 11:55	Keynote 2: Prof. Dr. Klaus-Armin Nave (Göttingen, Germany) <i>Myelin Lipids in Brain Energy Metabolism</i>
11:55 – 12:20	Prices and Closing Remarks