

THE LANCET Summit

Inflammation and Immunity in Disorders of the Brain and Mind



Programme

Thursday, November 15, 2018

- 16:00-18:00 Registration
18:00-19:30 Welcome Reception

Friday November 16, 2018

- 07:30-08:45 Registration
08:45-09:00 Welcome and introduction
Josep Dalmau^{1,2}, ¹University of Pennsylvania, USA, ²University of Barcelona, Spain
- 09:00-10:30 Session 1 – Neuroinflammation and microglia**
- 09:00-09:30 **Is neuroinflammation a promising therapeutic target for Alzheimer's disease?**
Michael Heneka^{1,2}, ¹University of Bonn, Germany, ²German Center for Neurodegenerative Disease, Germany
- 09:30-10:00 **From yolk sac to neurodegeneration: the multiple facets of microglia**
Marco Prinz, University of Freiburg, Germany
- 10:00-10:30 **Manipulating the microglia in chronic neurodegenerative disease**
V. Hugh Perry, University of Southampton, UK
- 10:30-11:00 Refreshment break**
- 11:00-12:30 Session 2 – Inflammation and immunity in schizophrenia and other mental disorders**
- 11:00-11:30 **Potential role of inflammation in Depression and Schizophrenia: cause and effective treatment**
Golam Khandaker, University of Cambridge, UK
- 11:30-12:00 **Interleukin 6 in treatment-resistant depression**
Wayne Drevets, Johnson & Johnson, Inc, USA
- 12:00-12:30 **Molecular and imaging biomarkers for first episode psychosis: novel cytokine and chemokine signaling pathways**
Akira Sawa, Johns Hopkins University and Hospital I, USA
- 12:30-13:30 Lunch**
- 12:30-13:30 Poster Session**
- 14:00-15:30 Session 3 – Systemic signals and the BBB, a wall with selective door**
- 14:00-14:30 **The gut brain axis: how commensal bacteria may influence risk of neurological disease**
Sergio Baranzini, University of California San Francisco, USA
- 14:30-15:00 **The gut-brain axis: mind -altering microbiotica**
P. Bercik, McMaster University, Canada
- 15:00-15:30 **Regulation of the blood-brain barrier in health and disease**
Richard Daneman, University of California San Diego, USA
- 15:30-16:00 Refreshment break**

16:00-17:50	Session 4 – Neuropsychiatric manifestations of neuronal autoantibodies
16:00-16:20	Case studies in autoimmune encephalitis and psychiatry Thomas Pollak, <i>Kings College London, UK</i>
16:20-16:50	Anti-NMDA receptor encephalitis: an immune-mediated synaptopathy that presents with psychosis Josep Dalmau ^{1,2} , <i>¹University of Pennsylvania, USA, ²University of Barcelona, Spain</i>
16:50-17:20	Antibody-mediated sleep diseases Joan Santamaria, <i>University of Barcelona, Spain</i>
17:20-17:50	Antibody mediated psychosis - new hope or false dawn? Belinda Lennox, <i>University of Oxford, UK</i>
17:50-18:40	Session 5 – “Is it time to start screening for autoantibodies in first-episode psychosis?”
	Panel discussion: 10 minutes “A neurologist with autoimmune psychosis” (presented by a patient - The identity of the patient will be revealed at the end of the presentation) 10 minutes comments (Francesc Graus, <i>University of Barcelona</i>) 10 minutes comments (Akira Sawa or Marion Leboyer) 20 minutes general discussion (Francesc Graus, Akira Sawa, Marion Leboyer)

Saturday November 17, 2018

08:30-10:00	Session 6 – Immune molecules in the brain
08:30-09:00	Beyond autoimmunity: Immune proteins in neural homeostasis Lisa Boulanger, <i>Princeton University, USA</i>
09:00-09:30	Mechanisms of cognitive dysfunction in SLE Betty Diamond, <i>The Feinstein Institute for Medical Research, USA</i>
09:30-10:00	Cytokines signatures and response to treatment in psychiatric disorders Nicolas Glaichenhaus, <i>CNRS, University of Nice, France</i>
10:00-10:30	Refreshment break
10:30-12:00	Session 7 – B and T cells in brain diseases
10:30-11:00	CNS phagocytes presenting myelin autoantigen direct autoimmune T cells into the target tissue Harmut Wekerle, <i>Max Plank Institute, Germany</i>
11:00-11:30	The T-cell side of multiple sclerosis Reinhard Hohlfeld, <i>Ludwig Maximilians University, Munich, Germany</i>
11:30-12:00	Antibody independent Contributions of B cells to CNS Inflammation Ami Bar-Or, <i>University of Pennsylvania, USA</i>
12:00-13:00	Lunch
13:00-13:30	Poster Viewing Session
	Session 8 – Poster presentations
13:30-14:00	Presentations of the 3 best posters by the authors 5 minutes each followed by 15 minutes discussion
14:00-15:30	Session 9 – Infectious and genetic triggers of immune-inflammation of the brain
14:00-14:30	Inborn errors of immunity underlying childhood viral encephalitis Shen-Ying Zhang, <i>Rockefeller University, USA</i>
14:30-15:00	The genetics of narcolepsy : immune and viral mechanisms Emmanuel Mignot, <i>Stanford University, USA</i>

15:00-15:30 **Immunogenetics of major psychiatric disorders**
Marion Leboyer, *University of Paris-Est-Créteil, France*

15:30-16:00 **Refreshment break**

16:00-17:00 **Session 10 – Immune-inflammation in Neurology and Psychiatry: treatment implications and future directions**

16:00-16:30 **Immunological aspects of psychotic disorders**
Iris Sommer, *University Medical Center, The Netherlands*

16:30-17:00 **Fighting Alzheimer's disease by unleashing innate and adaptive immune cells**
Michal Schwartz, *Weizmann Institute of Science, Israel*

17:00-17:10 **Closing ceremony**
Josep Dalmau^{1,2}, Elena Becker-Barroso³
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