

Oral programme

Thursday, November 15, 2018

- 16:00-18:00 Registration | **Foyer Sedna**
18:00-19.30 Welcome Reception | **Mercurio and Neptuno**

Friday November 16, 2018

- 08:00-08:45 Registration | **Foyer Sedna**
08:45-09:00 Welcome and introduction | **Jupiter**
J. Dalmau, University of Pennsylvania, USA and University of Barcelona, Spain

09:00-10:30 Session 1 – Neuroinflammation and microglia

Room: Jupiter

Session chair *J. Dalmau, University of Pennsylvania, USA and University of Barcelona, Spain and M. Heneka, University of Bonn, Germany*

09:00-09:30 **[INV.01] Is neuroinflammation a promising therapeutic target for Alzheimer's disease?**
M. Heneka^{1,2}, ¹University of Bonn, Germany, ²German Center for Neurodegenerative Disease, Germany

09:30-10:00 **[INV.02] Microglia somatic mutations and neurodegeneration**
F. Geissmann, Memorial Sloan Kettering Cancer Center, New York

10:00-10:30 **[INV.03] Manipulating the microglia in chronic neurodegenerative disease**
H. Perry, University of Southampton, UK

10:30-11:00 Refreshment break | **Mercurio and Neptuno**

11:00-12:30 Session 2 – Inflammation and immunity in schizophrenia and other mental disorders

Room: Jupiter

Session chair *M. Leboyer, University of Paris-Est-Créteil, France*

11:00-11:30 **[INV.04] Potential role of inflammation in depression and schizophrenia: Cause and effective treatment**
G. Khandaker, University of Cambridge, UK

11:30-12:00 **[INV.05] Interleukin 6 in treatment-resistant depression**
W. Drevets, Janssen Research & Development, USA

12:00-12:30 **[INV.06] Molecular and imaging biomarkers of first episode psychosis: Novel cytokine and chemokine signalling pathways**
A. Sawa, Johns Hopkins University Hospital, USA

12:30-13:30 Lunch | **Mercurio and Neptuno**
(Sponsored by)



12:30-14:00 Poster Session 1 | **Mercurio and Neptuno**

14:00-15:30 Session 3 – Systemic signals and the BBB, a wall with selective door

Room: Jupiter

Session chair *H. Wekerle, Max Planck Institute, Germany*

14:00-14:30 **[INV.07] The gut brain axis: How commensal bacteria may influence risk of neurological disease**
S. Baranzini, University of California San Francisco, USA

14:30-15:00 **[INV.08] The gut-brain axis: mind -altering microbiota**
P. Bercik, McMaster University, Canada

15:00-15:30 **[INV.09] Regulation of the blood-brain barrier in health and disease**
R. Daneman, *University of California San Diego, USA*

15:30-16:00 Refreshment break | Mercurio and Neptuno

16:00-17:50 Session 4 – Neuropsychiatric manifestations of neuronal autoantibodies

Room: Jupiter

Session chair F. Graus, *University of Barcelona*

16:00-16:20 **[INV.10] Case studies in autoimmune encephalitis and psychiatry**
T. Pollak*¹, G. Blackman¹, N. Moran², A. David¹, ¹*Kings College London, UK*, ²*King's College Hospital NHS Foundation Trust, UK*

16:20-16:50 **[INV.11] Anti-NMDA receptor encephalitis: An immune-mediated synaptopathy that presents with psychosis**
J. Dalmau, *University of Barcelona, Spain*

16:50-17:20 **[INV.12] Antibody-mediated sleep diseases**
J. Santamaria, *University of Barcelona Medical School, Spain*

17:20-17:50 **[INV.13] Antibody-mediated psychosis: New hope or false dawn?**
B. Lennox, *University of Oxford, UK*

17:50-18:40 Session 5 – “Is it time to start screening for autoantibodies in first-episode psychosis?”

Room: Jupiter

Session chair N. Boyce, *Editor, The Lancet Psychiatry, UK*

17:50-18:00 **Panel discussion:** “A neurologist with autoimmune psychosis” (presented by a patient - The identity of the patient will be revealed at the end of the presentation)

18:00-18:10 Comments by Francesc Graus

18:10-18:20 Comments by Akira Sawa or Marion Leboyer

18:20-18:40 General discussion by Francesc Graus, Akira Sawa and Marion Leboyer

Saturday November 17, 2018

08:30-10:00 Session 6 – Immune molecules in the brain

Room: Jupiter

Session chair A Bar-Or, *University of Pennsylvania, USA*

08:30-09:00 **[INV.14] Beyond autoimmunity: Immune proteins in neural homeostasis**
L. Boulanger, *Princeton University, USA*

09:00-09:30 **[INV.15] Mechanisms of cognitive dysfunction in SLE**
J. Nestor¹, N. Kello¹, Y. Arinuma², P. Huerta¹, B. Volpe¹, B. Diamond*¹, ¹*The Feinstein Institute for Medical Research, USA*, ²*Kitasato University School of Medicine, Japan*

09:30-10:00 **[INV.16] Cytokine signatures and response to treatment in psychiatric disorders**
E. Martinuzzi¹, S. Barbosa¹, C. Gilet¹, E. Ibrahim², R. Belzeaux², W. Bel Haj Ali³, S. Jamain³, M. Leboyer⁵, N. Galichenhaus*¹, ¹*Université Nice Sophia Antipolis, France*, ²*Aix-Marseille Université, France*, ³*Université Paris-Est Créteil, France*, ⁴*INSERM, AP-HP, France*

10:00-10:30 Refreshment break | Mercurio and Neptuno

10:30-12:00 Session 7 – B and T cells in brain diseases

Room: Jupiter

Session chair E. Becker-Barroso, *Editor, The Lancet Neurology, UK*

10:30-11:00 **[INV.17] CNS phagocytes presenting myelin autoantigen direct autoimmune T cells into the target tissue**
H. Wekerle*¹, N. Kawakami², ¹*Max-Planck Institute of Neurobiology, Germany*, ²*Munich University Biomedical Center, Germany*

11:00-11:30 **[INV.18] The T-cell side of multiple sclerosis**
R. Hohlfeld, *University of Munich, Germany, Munich, Germany*

11:30-12:00 **[INV.19] Antibody independent Contributions of B cells to CNS Inflammation**
A. Bar-Or, *University of Pennsylvania, USA*

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| 12:00-13:00 | Lunch Mercurio and Neptuno |
| 12:00-13:30 | Poster Session 2 Mercurio and Neptuno |
| 13:30-14:00 | Session 8 – Presentations of the 3 best posters by the authors (5 minutes each followed by 15 minutes discussion) |
| Room: | Jupiter |
| Session chair | A. Sawa, <i>Johns Hopkins University Hospital, USA</i> |
| 14:00-15:30 | Session 9 – Infectious and genetic triggers of immune-inflammation of the brain |
| Room: | Jupiter |
| Session chair | R. Hohlfeld, <i>University of Munich, Germany</i> |
| 14:00-14:30 | [INV.20] Inborn errors of immunity underlying childhood viral encephalitis S. Zhang, <i>The Rockefeller University, USA</i> |
| 14:30-15:00 | [INV.21] The genetics of narcolepsy: immune and viral mechanisms E. Mignot, <i>Stanford University, USA</i> |
| 15:00-15:30 | [INV.22] Immunogenetics of major psychiatric disorders M. Leboyer, <i>Université Paris Est Créteil, France</i> |
| 15:30-16:00 | Refreshment break Mercurio and Neptuno |
| 16:00-17:00 | Session 10 – Immune-inflammation in Neurology and Psychiatry: treatment implications and future directions |
| Room: | Jupiter |
| Session chair | N. Boyce, <i>Editor, The Lancet Psychiatry, UK</i> |
| 16:00-16:30 | [INV.23] Immunological aspects of psychotic disorders I. Sommer, <i>University Medical Center Groningen, The Netherlands</i> |
| 16:30-17:00 | [INV.24] Tackling Alzheimer's disease by unleashing innate and adaptive immune cells M. Schwartz, <i>Weizmann Institute of Science, Israel</i> |
| 17:00-17:10 | Closing ceremony J. Dalmau, <i>University of Pennsylvania, USA and University of Barcelona, Spain</i> and E. Becker-Barroso, <i>Editor – The Lancet Neurology, UK</i> |