



ISNI 2021
FRANCE

8-12 November

goes virtual

15th ISNI CONGRESS
3rd GSNI Course



Preliminary Scientific Program

15th ISNI Congress, Virtual November 8 – 12, 2021

DAY I | MONDAY NOVEMBER 8

GSNI | 10:30-6:00 – ALL TIMES IN GMT

Chairs: Gianvito Martino (*Italy*) & V. Wee Yong (*Canada*)

- 10:30 AM-10:45 AM: **Opening Remarks**
Gianvito Martino (*San Raffaele Hospital Milan, Italy*) & V. Wee Yong (*University of Calgary, Canada*)
- 10:45 AM-11:30 AM: **Autoantibodies in neuroimmunology**
Russell Dale (*University of Sydney, Australia*)
- 11:30 AM-11:45 AM: *Break*
- 11:45 AM-12:30 PM: **Microglia in brain injury**
Jana Vukovic (*University of Queensland, Australia*)
- 12:30 PM-1:15 PM: **Gut dysbiosis and neuroimmunology**
Sachiko Miyake (*Juntendo University Graduate School of Medicine, Japan*)
- 1:15 PM-1:30 PM: *Break*
- 1:30 PM-2:15 PM: **Neuroimmunology of stroke**
Marco Bacigaluppi (*San Raffaele Milano, Italy*)
- 2:15 PM-3:00 PM: **Neuroimmunology of neuropathic pain**
Willias Masocha (*Kuwait University, Kuwait*)
- 3:00 PM-3:15 PM: *Break*
- 3:15 PM-4:00 PM: **Neuroimmunology of remyelination**
Tanja Kuhlmann (*University of Münster, Germany*)
- 4:00 PM-4:45 PM: **Neuroimmunology of behavior and stress**
Staci Bilbo (*Duke University, USA*)
- 4:45 PM-5:00 PM: *Break*
- 5:00 PM-5:45 PM: **COVID19 neuroimmunology**
Catherine Larochelle (*Université de Montréal, Canada*)
- 5:45 PM-6:00 PM: **Closing Remarks**



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Gianvito Martino (*San Raffaele Hospital Milan, Italy*) & V. Wee Yong (*University of Calgary, Canada*)

DAY II | TUESDAY NOVEMBER 9 – ALL TIMES IN GMT

WELCOME REMARKS | 10:00 AM -10:30 AM

Welcome

PLENARY SESSION | 10:30 AM -12:00 PM

Plenary I: Neuroimmunology of CNS demyelinating disorders

Chairs: Samia Khoury (*Lebanon*) & David Laplaud (*France*)

10:30 AM-11:00 AM: **Functional involvement of the HLA-DR15 haplotype in the autoimmune pathogenesis of MS**

Roland Martin (*University of Zurich, Switzerland*)

11:00 AM-11:30 AM: **The T cell-Phagocyte Interface in Neuroinflammation**

Burkhard Becher (*University of Zurich, Switzerland*)

11:30 AM-12:00 PM: **Role of the inflammasome in MS**

Manuel Comabella (*Vall d'Hebron University Hospital, Spain*)

BREAK 12:00 PM – 12:15 PM

INDUSTRIAL SYMPOSIUM | 12:15 PM-1:15 PM

Sanofi Symposium

BREAK 1:15 PM – 1:30 PM

PLENARY SESSION | 1:30 PM-3:00 PM

Plenary II: Brain-Immune system interactions in physiological conditions

Chairs: Sonia Garel (*France*) & Jon Laman (*Netherlands*)

1:30 PM-2:00 PM: **Single-cell clonotype tracing of encephalitogenic T cells**

Vijay Kuchroo (*Harvard Medical School, USA*)

2:00 PM-2:30 PM: **Anticipating pathogen invasion: Neuroimmune activation preserves gut homeostasis**

Gabrielle Belz (*The University of Melbourne, Australia*)



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2:30 PM-3:00 PM:

Dissecting functions of Microglia and non-parenchymal CNS macrophages
Steffen Jung (*Weizmann Institute of Science, Israel*)

BREAK 3:00 PM – 3:15 PM

KEYNOTE LECTURE | 3:15 PM-4:15 PM

The Newsom-Davis Lecture

Chair: Amit Bar-Or (*USA*)

Immune mechanisms in neurologic disease

Howard Weiner (*Harvard Medical School, USA*)

BREAK 4:15 PM – 4:30 PM

PARALLEL SYMPOSIA | 4:30 PM-6:30 PM

Symposium I: Dialog between astrocytes and microglia in neuroimmunology

Chair: Ari Waisman (*Germany*)

4:30 PM-4:55 PM:

Microglia in early brain wiring: from circuit assembly to tissue integrity
Sonia Garel (*Université Paris, France*)

4:55 PM-5:10 PM:

59-Astrocyte-Oligodendrocyte interaction drives central nervous system remyelination
Irene Molina Gonzalez (*University of Eidenburgh, UK*)

5:10 PM-5:35 PM:

Regulation of CNS Macrophages in Health and Disease
Melanie Greter (*University of Zurich, Switzerland*)

5:35 PM-5:50 PM:

249-APOE4 IMPAIRS MICROGLIA RESPONSE TO NEURODEGENERATION IN ALZHEIMER'S DISEASE
Neta Rosenzweig (*Brigham and Women's Hospital, Harvard Medical School, USA*)

5:50 PM-6:15 PM:

Astrocyte heterogeneity in Multiple Sclerosis
Francisco Quintana (*Harvard Medical School, USA*)

6:15 PM-6:30 PM:

308-Selective inhibition of soluble TNF promotes beneficial neuroinflammatory responses and remyelination in the cortical grey matter.
Athena Boutou & Ilias Roufagalas (*Hellenic Pasteur Institute, Greece*)

Symposium II: Parasites and neuroinflammation

Chair: Nicolas Blanchard (*France*)

4:30 PM-4:55 PM:

A conserved GABAergic system in mononuclear phagocytes -implications for infection
Antonio Barragan (*Stockholm University, Sweden*)



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- 4:55 PM-5:10 PM: **246-Studying the mechanisms of neuroinflammation-induced cognitive alterations associated with *Toxoplasma gondii* infection**
Marcy Belloy (*University of Toulouse, France*)
- 5:10 PM-5:35 PM: **TBD**
William Heath (*The University of Melbourne, Australia*)
- 5:35 PM-5:50 PM: **108-Regional cyst localisation and innate immune activation of the retina and brain in murine toxoplasmosis.**
Dana Lee (*Queensland University of Technology, Australia*)
- 5:50 PM-6:15 PM: **Mechanisms of fatal blood barrier dysfunction during cerebral malaria**
Dorian McGavern (*NIH, USA*)

Symposium III: Antibody-mediated diseases: new targets and new mechanisms

Chairs: Laurent Groc (*France*) & Jérôme Honnorat (*France*)

- 4:30 PM-4:55 PM: **The different syndromes and mechanisms of neuronal synaptic autoantibodies**
Josep Dalmau (*ICREA-IDIBAPS, Spain*)
- 4:55 PM-5:10 PM: **191-Immunogenetics in autoimmune encephalitis and related disorders**
Sergio Muniz-Castrillo (*Hospices Civils de Lyon, Hôpital Neurologique, France*)
- 5:10 PM-5:35 PM: **The peculiar features of IgG4 and its role in autoimmune diseases**
Maartje Huijbers (*Leiden University Medical Center, the Netherlands*)
- 5:35 PM-5:50 PM: **259-The role of SWAP-70 and FCRL2 in pathophysiology of multiple sclerosis and their value as biomarker**
Elif Sanli (*Istanbul University, Turkey*)
- 5:50 PM-6:15 PM: **Autoimmune encephalitis and epilepsy**
Maarten Titulaer (*Erasmus MC University Medical Center, the Netherlands*)
- 6:15 PM-6:30 PM: **131-Clinical and laboratory features in anti-NF155 autoimmune nodopathy**
Lorena Martin-Aguilar (*University of Vienna, Austria*)

BREAK 6:30 PM – 6:45 PM

WORKSHOPS | 6:45 PM-8:45 PM

Workshop I: Innate and Adaptive Immunity in AD, Parkinson and ALS

Chairs: Stéphane Hunot (*France*)

- 6:45 PM-7:15 PM: **Lymphocyte trafficking to the CNS – does provenance matter?**
Thomas Korn (*Klinikum rechts der Isar Technische Universität München, Germany*)



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- 7:15 PM-7:30 PM: **38-Repurposing the anxiolytic drug buspirone to counteract inflammation in cellular and animal models of Parkinson's disease**
Sarah Thomas Broome (*University of Technology Sydney, Australia*)
- 7:30 PM-7:45 PM: **57-CYP46A1 in the choroid plexus: an unexpected safeguard of brain function lost in Alzheimer's disease**
Afroditi Tsitsou-Kampeli (*The Weizmann Institute of Science, Israel*)
- 7:45 PM-8:00 PM: **34-Effects of IgLON5 antibodies on neuronal cytoskeleton: A link between autoimmunity and neurodegeneration.**
Jon Landa (*Universitat de Barcelona, Spain*)
- 8:00 PM-8:15 PM: **55-Etiology-independent disease-associated oligodendrocytes in CNS pathologies**
Mor Kenigsbuch (*The Weizmann Institute of Science, Israel*)
- 8:15 PM-8:30 PM: **287-Disrupting the neuroimmune crosstalk in the spleen exacerbates cognitive loss in animal model of Alzheimer's disease**
Tommaso Croese (*Weizmann Institute of Science, Rehovot, Israel*)

Workshop II: Modeling neuroinflammation using iPSC, organoids and animal models

Chairs: Sandra Amor (*Netherlands*) & Lennart Mars (*France*)

- 6:45 PM-7:15 PM: **Th17 lymphocyte-induced neuronal cell death in Parkinson's disease**
Iryna Prots (*University Hospital Erlangen, Germany*)
- 7:15 PM-7:30 PM: **375-Human induced pluripotent stem cells-derived neurons to study CNS-reactive autoantibodies in COVID-19-mediated neurological syndromes**
Amandine Mathias (*Lausanne University Hospital and Lausanne University, Switzerland*)
- 7:30 PM-7:45 PM: **176-Human in vitro model to study the role of glial cells in multiple sclerosis**
Sanna Hagman (*Tampere University, Finland*)
- 7:45 PM-8:00 PM: **185-Intrinsic regulation of Th17 cell pathogenicity by IL-24**
Christopher Sie (*Technical University of Munich, Germany*)
- 8:00 PM-8:15 PM: **90-Division of Neural Stem Cell Resilience in Multiple Sclerosis**
Alexandra M. Nicaise (*University of Cambridge, UK*)
- 8:15 PM-8:30 PM: **184-Regulatory B cells required IL-2 signaling to control disease severity in EAE**
Juliette Gauthier (*University of Rennes, France*)
- 8:30 PM-8:45 PM: **356-Using hiPSC-derived CNS cells as antigen presenting cells for unbiased identification of CNS-autoreactive CD8+ T cells**
Sylvain Perriot (*Lausanne University Hospital, Switzerland*)



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Workshop III: Single cell analyses in neuroimmunology: essential or overrated?

Chair: Rejane Rue (*France*) & Simon Fillatreau (*France*)

- 18:45-19:15: **Oligodendroglia cell states in multiple sclerosis: insights from single-cell transcriptomics and epigenomics**
Gonçalo Castelo-Branco (*Karolinska Institutet, Sweden*)
- 19:15-19:30: **304-Antibody-mediated diseases: new targets and new mechanisms**
Alicia Zou (*University of Sydney, Australia*)
- 19:30-19:45: **363-Single-cell transcriptome profiling revealed the distinct transcriptional response of microglia-like cells during herpes simplex encephalitis**
Olus Uyar (*Université Laval, Canada*)
- 19:45-20:00: **54-Exploring reported genes of microglia RNA-seq studies: uses and considerations**
Techla van Wageningen (*Amsterdam UMC, the Netherlands*)
- 20:00-20:15: **298-Diverse human astrocyte and microglial transcriptional responses to Alzheimer's pathology**
Amy Smith (*University of Auckland, New Zealand*)
- 20:15-20:30: **200-CXCR4-positive T cells are increased in people with radiologically isolated syndrome**
Raphael Schneider (*Keenan Research Center for Biomedical Science, Canada*)
- 20:30-20:45: **225-CanProCo study; Determining technical parameters for large scale single-cell RNA sequencing of MS patients**
Fiona Tea (*CrCHUM, Canada*)

Workshop IV: Immunomodulation and remyelination

Chairs: Violetta Zujovic (*France*) & Abdelhadi Saoudi (*France*)

- 6:45 PM-7:15 PM: **Promoting macrophage/microglia activity for remyelination**
V. Wee Yong (*University of Calgary – Canada*)
- 7:15 PM-7:30 PM: **187-TNFR2 regulates the response of oligodendrocyte precursor cells to neuroinflammation**
Haritha Desu (*University of Miami, USA*)
- 7:30 PM-7:45 PM: **17-Targeting lipophagy in macrophages improves repair in multiple sclerosis**
Melanie Loix (*Hasselt University, Belgium*)
- 7:45 PM-8:00 PM: **61-Exogenous fractalkine enhances oligodendrogenesis and remyelination in the cuprizone-induced demyelination mouse model**
Monique Marilyn Alves de Almeida (*University of Alberta, Canada*)
- 8:00 PM-8:15 PM: **123-Stearoyl-CoA desaturase-1 impairs the reparative properties of macrophages and microglia in the brain**
Jeroen F.J. Bogie (*Hasselt University, Belgium*)



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- 8:15 PM-8:30 PM: **220-Themis1/Vav1 signaling hub controls T cell pathogenicity in a mouse model of Multiple Sclerosis**
Rémi Marrocco (*INFINITY, France*)
- 8:30 PM-8:45 PM: **65-Elevated expression levels of Ephrins on Immune Cells of Patients With Multiple Sclerosis Affects Oligodendrocyte Differentiation**
Maya Golan (*Tel Aviv Sourasky Medical Center, Israel*)

DAY III | WEDNESDAY NOVEMBER 10 – ALL TIMES IN GMT

POSTER SESSION | 10:30 AM-12:30 PM

Posters

BREAK 12:30 PM – 12:45 PM

INDUSTRIAL SYMPOSIUM | 12:45 PM-1:45 PM

BMS/Celgene Symposium

BREAK 1:45 PM – 2:00 PM

PLENARY SESSION | 2:00 PM-3:30 PM

Plenary III: Neuroimmunology of neurodegenerative diseases and ageing

Chairs: Shohreh Issazadeh-Navikas (*Denmark*) & Guillaume Dorothée (*France*)

- 2:00 PM-2:30 PM: **TBD**
Jordi Bové (*Vall d'Hebron, Spain*)
- 2:30 PM-3:00 PM: **Systemic blockade of anti-PD-I1 can potentially overcome Trem2 polymorphism in combating Alzheimer's disease**
Michal Schwartz (*Weizmann Institute of Science, Israel*)
- 3:00 PM-3:30 PM: **TBD**
Marco Colonna (*Washington University School of Medicine St. Louis, USA*)

BREAK 3:30 PM – 3:45 PM



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PARALLEL SYMPOSIA | 3:45 PM-5:45 PM

Symposium IV: Barriers of the CNS: actors in neuroinflammation

Chairs: Catharina C. Gross (*Germany*) & Julie Ribot (*Portugal*)

- 3:45 PM-4:10 PM: **Regulation of the blood-brain barrier in health and disease**
Richard Daneman (*University of California San Diego – USA*)
- 4:10 PM-4:25 PM: **282-DICAM Promotes TH17 Lymphocyte Trafficking Across the Blood-Brain Barrier during Neuroinflammation**
Marc Charabati (*Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM)/Université de Montréal, Canada*)
- 4:25 PM-4:50 PM: **Modelling T-cell autoimmunity of the CNS grey and white matter**
Francesca Odoardi (*University Medical Center Göttingen – Germany*)
- 4:50 PM-5:05 PM: **157-Immune protection at the CNS borders: heterogeneity and maturation of meningeal macrophages**
Elisa Eme-Scolan (*Immunology Center of Marseille-Luminy, France*)
- 5:05 PM-5:30 PM: **Unbiased and large-scale CNS endothelium transcriptomic analyses in human and mouse**
Alexandre Prat (*Université de Montréal – Canada*)
- 5:30 PM-5:45 PM: **311-B cells and their progenitors reside in non-diseased meninges**
David Schafflick (*University Hospital Münster, Germany*)

Symposium V: Autoimmune neurological disorders (other than MS)

Chair: Patrick Vermersch (*France*)

- 3:45 PM-4:10 PM: **Neuromyelitis optica spectrum disorders: Pathobiology predicts treatment response for AQP4-IgG-associated subtype**
Brian Weinschenker (*Mayo Clinic – USA*)
- 4:10 PM-4:25 PM: **71-T cell-mediated neuronal destruction in GAD65-Encephalitis calls for early immunosuppressive treatment**
Anna R. Tröscher (*Mecial University of Vienna, Austria*)
- 4:25 PM-4:50 PM: **Brain control of adaptive immunity**
Hai Qi (*Tsinghua University – China*)
- 4:50 PM-5:05 PM: **231-CX3CR1 but not CCR2 expression is required for the development of autoimmune peripheral neuropathy in mice**
Oladayo Oladiran (*The alan Edwrds Centre for Research on Pain, Canada*)
- 5:05 PM-5:30. PM: **New aspects of autoimmune neuromuscular junction disorders**
Angela Vincent (*University of Oxford – UK*)



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5:30 PM-5:45 PM:

281-Investigating anti-inflammatory and immunomodulatory properties of brivaracetam in experimental autoimmune encephalomyelitis (EAE)

Oumarou Ouédraogo (*CHUM research Center, Canada*)

Symposium VI: Viruses and neuroinflammation

Chairs: Daniel Gonzalez-Dunia (*France*) & Trevor Owens (*Denmark*)

3:45 PM-4:10 PM:

Innate immune mechanisms of pathological forgetting

Robyn Klein (*Washington University School of Medicine St. Louis – USA*)

4:10 PM-4:25 PM:

127-MAVS is required to mount IFN- β - and broad innate immune responses in VSV infected microglia

Olivia Luise Gern (*Hannover Medical School and the Helmholtz Centre for Infection Research, Germany*)

4:25 PM-4:50 PM:

Epstein-Barr virus and multiple sclerosis: from autoimmunity to virus-induced immunopathology?

Francesca Aloisi (*Istituto Superiore di Sanità – Italy*)

4:50 PM-5:05 PM:

156-Age-dependent meningeal macrophages protect against viral neuroinfection

Rejane Rua (*Immunology Center of Marseille-Luminy, France*)

5:05 PM-5:30 PM:

Disentangling pathological and protective T cell responses in the CNS

Doron Merkler (*Université de Genève – Switzerland*)

5:30 PM-5:45 PM:

52-Human iPSC-derived astrocytes as a model to understand JCV infection in the brain

Larise Oberholster (*Lausanne University Hospital, Switzerland*)

BREAK 5:45 PM – 6:00 PM

KEYNOTE LECTURE | 6:00 PM-7:00 PM

The Immunology Lecture

Chair: Gianvito Martino (*Italy*)

Unraveling the Complex Pathogenesis of Multiple Sclerosis Using Animal Models

Joan Goverman (*University of Washington – USA*)

BREAK 7:00 PM – 7:15 PM



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PARALLEL WORKSHOPS | 7:15 PM-9:15 PM

Workshop V: Does our food affect our brain via the immune system?

Chairs: Caroline Pöt (*Switzerland*) & Guy Gorochov (*France*)

- 7:15 PM-7:45 PM: **Diet and the gut microbiome shape the course of multiple sclerosis**
Aiden Haghikia (*Ruhr-Universität – Germany*)
- 7:45 PM-8:00 PM: **62-Diet-dependent regulation of TGFβ impairs reparative innate immune responses after demyelination**
M. Bosch Queralt (*Technical University Munich, Germany*)
- 8:00 PM-8:15 PM: **56-Sialic acid-driven untimely immune aging in obesity-Alzheimer's disease comorbidity accelerates cognitive decline**
Stefano Suzzi (*The Weizmann Institute of Science, Israel*)
- 8:15 PM-8:30 PM: **140-Neurological alterations and intestinal dysbiosis associated with subclinical food allergy**
Kumi Nagamoto-Combs (*University of North Dakota School of Medicine, USA*)
- 8:30 PM-8:45 PM: **171-Impact of methionine intake on neuroinflammatory processes in a spontaneous sex-biased animal model of multiple sclerosis**
Victoria Hannah Mamane (*Université de Montréal, Canada*)
- 8:45 PM-9:00 PM: **115-Dietary supplementation with conjugated linoleic acid ameliorates intestinal inflammation and CNS autoimmunity**
Ann-Katrin Fleck (*University of Münster, Germany*)
- 9:00 PM-9:15 PM: **289-Impact of high fibre diet and its combination with intermittent fasting in CNS autoimmunity**
Eileen Liao (*The University of Sydney, Australia*)

Workshop VI: Brain ageing: impact of immunity and infection

Chair: Serge Nataf (*France*)

- 7:15 PM-7:45 PM: **Uncovering immune responses driving cellular communities towards proteinopathy and cognitive decline in 1.6 million individual transcriptomes**
Philip De Jager (*Columbia University, USA*)
- 7:45 PM-8:00 PM: **110-Aging perturbs microglia function and upregulates osteopontin to accelerate oxidized phosphatidylcholine-mediated neurodegeneration**
Jeff Dong (*University of Calgary, Canada*)
- 8:00 PM-8:15 PM: **136-Aging blood factors promote CD8 T cell infiltration in the adult mouse brain**
Lynn van Olst (*Amsterdam UMC, the Netherlands*)



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- 8:15 PM-8:30 PM: **248-Towards manipulating microglial subsets in humans: an approach to polarize microglia in a targeted fashion**
Verna Haage (*Columbia University Irving Medical Center, USA*)
- 8:30 PM-8:45 PM: **328-Aged CNS-resident cells promote a non-remitting course of experimental autoimmune encephalomyelitis**
Jeffrey Atkinson (*The Ohio State University, USA*)
- 8:45 PM-9:00 PM: **267-Ageing promotes non-remitting experimental autoimmune encephalomyelitis with persistent meningeal inflammation and subpial demyelination in SJL/J mice**
Michelle Zuo (*University of Toronto, Canada*)
- 9:00 PM-9:15 PM: **307-Chronic demyelination-induced cell senescence is associated with motor impairment in a model of MS**
Irini Papazian (*Hellenic Pasteur Institute, Greece*)

Workshop VII: Neuroimmunology of the eye and the optic nerve

Chairs: Cécile Delarasse (*France*) & Sylvain Fisson (*France*)

- 7:15 PM-7:45 PM: **Microbiota and the eye – is there a gut-eye axis?**
Rachel Caspi (*National Eye Institute, NIH – USA*)
- 7:45 PM-8:00 PM: **150-T cells in NMO patients – insights from the peripheral blood and the CSF**
Maren Lindner (*University Hospital Münster, Germany*)
- 8:00 PM-8:15 PM: **254-The early emergence of aquaporin 4-specific B cells characterises neuromyelitis optica spectrum disorders**
Sudarshini Ramanathan (*John Radcliffe Hospital; University of Oxford, Oxford, UK/ University of Sydney; Kids Neuroscience Centre, Children's Hospital at Westmead, Australia/ Concord Hospital, Australia*)
- 8:15 PM-8:30 PM: **201-Aberrant DNA methylation of Runx1 promotes Th17 induced autoimmunity in Neuromyelitis Optica Spectrum Disorders**
Yuhan Qiu (*West China Hospital of Sichuan University, China*)
- 8:30 PM-8:45 PM: **73-ATP mediates neuropathic pain in neuromyelitis optica via microglial activation**
Teruyuki Ishikura (*Osaka University, Japan*)
- 8:45 PM-9:00 PM: **377-Subretinal Associated Immune Inhibition, a new antigen-specific immunosuppressive mechanism in the context of AAV gene transfer**
Sylvain Fisson (*Université Paris Saclay*)
- 9:00 PM-9:15 PM: **162-Role of P2X7 receptor in mouse experimental autoimmune uveitis (EAU)**
Cécile Delarasse (*Institut de la Vision, France*)



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Workshop VIII: Sex chromosomes and hormones in neuroimmunology

Chair: Sophie Laffont (*France*)

- 7:15 PM-7:45 PM: **Sex Chromosome Effects on Autoimmunity**
Rhonda Voskuhl (*UCLA Multiple Sclerosis Program – USA*)
- 7:45 PM-8:00 PM: **276-In utero exposure to maternal Anti-Caspr2 antibodies alters microglial activation and development in male offspring**
Ben Spielman (*The Feinstein Institutes for Medical Research*)
- 8:00 PM-8:15 PM: **67-Suppression of the disease-relevant brain-homing T cell in MS by nuclear receptor crosstalk**
Steven C. Koetzier (*Erasmus MC, University Medical Center*)
- 8:15 PM-8:30 PM: **116-Regulatory T cells contribute to sexual dimorphism in neonatal hypoxic-ischemic brain injury**
Josephine Herz (*University Hospital Essen, University Duisburg-Essen*)
- 8:30 PM-8:45 PM: **290-Protective Efficacy of Genistein And 17 β Estradiol Against Amyloid Beta Neurotoxicity In Aging Female Rats**
Pardeep Kumar (*Jawaharlal Nehru University, India*)
- 8:45 PM-9:00 PM: **133-CD300f immune receptor contributes to healthy aging by regulating inflammaging, metabolism and cognitive decline**
Hugo Peluffo (*UDELAR, Institut Pasteur de Montevideo, Uruguay*)

DAY IV | THURSDAY NOVEMBER 11

PARALLEL WORKSHOPS | 10:30 AM-12:30 PM

Workshop IX: Behavior and immunity

Chairs: Asya Rolls (*Israel*)

- 10:30 AM-11:00 AM: **Neuroimmune interactions in the skin, from molecular mechanisms to therapeutic perspectives**
Sophie Ugolini (*Parc Scientifique et technologique de Luminy, France*)
- 11:00 AM-11:15 AM: **203-Prolonged T cell expansion in neurological manifestations associated with COVID-19**
I-Na Lu (*University Hospital Münster, Germany*)
- 11:15 AM-11:30 AM: **42-Brain-Immune Axis Regulation is Responsive to Cognitive Behavioral Therapy and Mindfulness Intervention in Crohn's Disease patients**
Ilan Karny (*Ben-Gurion University of the Negev, Israel*)



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- 11:30 AM-11:45 AM: **92-The modulatory effect of melatonin on the behavior in rats under experimental conditions of inflammation models**
Asiance Tchang (Samara University, Russian Federation)
- 11:45 AM-12:00 PM: **222-Role of meninges in activity-induced neurogenesis**
Mathilde Marin Immunology Center of Marseille-Luminy, France)
- 12:00 PM-12:15 PM: **277-Deleterious role of microgliosis after perinatal cerebellar injury on anxious behaviors in adult mice**
Eloi Guarnieri (Université de Montréal, Canada)
- 12:15 PM-12:30 PM: **122-Cytotoxic NK-like CD8+T cells, the reservoir of clonal cells, are related to disease activity in MS**
Emilie Dugast (CRTI-INSERM U1064, France)

Workshop X: The sensory and autonomic nervous systems: links with inflammation

Chairs: Nicolas Gaudenzio (*France*)

- 10:30 AM-11:00 AM: **Neuroimmunometabolism**
Ana Domingos (University of Oxford, UK)
- 11:00 AM-11:15 AM: **63-Meningeal inflammation in multiple sclerosis induces phenotypic changes in cortical microglia that differentially associate with neurodegeneration**
Carla Rodriguez-Mogeda (Amsterdam UMC, MS Center Amsterdam, the Netherlands)
- 11:15 AM-11:30 AM: **316-Argonaute autoantibodies are diagnostic and prognostic biomarkers for autoimmune-related sensory neuropathies**
Christian P. Moritz (Université de Lyon, Université Claude Bernard Lyon 1, France)
- 11:30 AM-11:45 AM: **6-Flow cytometric detection of functionally relevant ganglionic acetylcholine receptor antibodies in Autoimmune Autonomic Ganglionopathy**
Nicolas Urriola (Royal Prince Alfred Hospital, Australia)
- 11:45 AM-12:00 PM: **19-Perforin and TNF-alpha are crucial mediators of neuronal destruction in experimental autoimmune enteric ganglionitis.**
Monica Sanchez-Ruiz (University of Cologne, Germany)
- 12:00 PM-12:15 PM: **12-High-dimensional immune profiling in traumatic spinal cord injury patients in relation to clinical parameters**
Judith Fraussen (Hasselt University, Belgium)
- 12:15 PM-12:30 PM: **211-The Potential of Systemic Contribution in Chronic Pain**
Wen Bo Zhou (McGill University, Canada)

Workshop XI: Immunology in neuro-oncology

- 10:30 AM-11:00 AM: **Glioma immunotherapy**
Gaetano Finocchiaro (Istituto Neurologico C.Besta, Italy)



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- 11:00 AM-11:15 AM: **195-Cervical lymph nodes and ovarian teratomas as germinal centres in NMDA receptor-antibody encephalitis**
Adam Al-Diwani (*University of Oxford, UK*)
- 11:15 AM-11:30 AM: **299-CLINICAL SPECTRUM AND LONG-TERM OUTCOME IN N-IRAES: THE CICLOPS STUDY**
Antonio Farina (*Hospices Civils de Lyon, Hôpital Neurologique*)
- 11:30 AM-11:45 AM: **32-Pretreatment Neutrophil-to-Lymphocyte/Monocyte-to-Lymphocyte Ratio as Prognostic Biomarkers in Glioma Patients**
Sher Ting Chim (*Monash University, Australia*)
- 11:45 AM-12:00 PM: **163-Identification of target antigens for glioblastoma-infiltrating CD4+ T cells**
Reza Naghavian (*University of Zurich, University Hospital Zurich, Switzerland*)
- 12:00 PM-12:15 PM: **212-Immune contexture of isocitrate dehydrogenase stratified human gliomas revealed by single-cell transcriptomics and accessible chromatin**
Pravesh Gupta (*The University of Texas MD Anderson Cancer Center, USA*)
- 12:15 PM-12:30 PM: **234-Is there a paraneoplastic neurologic syndrome associated to renal and bladder cancer?**
Macarena Villagran (*Hospices Civils de Lyon, France*)

Workshop XII: Myasthenia Gravis

Chairs: Sonia Berrih-Aknin (*France*) & Nils Erik Gilhus (*Norway*)

- 10:30 AM-11:00 AM: **Etiological and pathophysiological mechanism in myasthenia gravis**
Rozen Le Panse (*Sorbonne Université, France*)
- 11:00 AM-11:15 AM: **294-Higher Th17 and Th1 cells in thymoma may affect development of thymoma-associated-myasthenia gravis inducing Tfh cells**
Merve Cebi (*Istanbul University, Turkey*)
- 11:15 AM-11:30 AM: **36-Functional monovalency amplifies the pathogenicity of anti-MuSK IgG4 in myasthenia gravis**
Dana L. E. Vergoossen (*Leiden University Medical Center, the Netherlands*)
- 11:30. AM-11:45 AM: **91-Conditioned Mesenchymal Stromal Cells as tools for immunomodulation in Myasthenia Gravis**
Alexandra Bayer Wildberger (*Sorbonne Université, France*)
- 11:45 AM-12:00 PM: **341-Role of HIF-1 and Treg/Th17 Imbalance in the Thymus in Myasthenia Gravis**
Ilayda Altinonder (*Istanbul University, Turkey*)
- 12:00 PM-12:15 PM: **129-Monoclonal antibody anti -IL-23 ameliorates neuromuscular defects in Myasthenia Gravis mouse model**
Nadine Dragin (*Sorbonne Université, France*)



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12:15 PM-12:30 PM:

247-Endogenous nucleic acids induce an organ-specific type I interferon signature in Myasthenia Gravis thymus

Cloé Payet (*Sorbonne University, France*)

BREAK 12:30 PM – 12:45 PM

INDUSTRIAL SYMPOSIUM | 12:45 PM-1:45 PM

Alexion Symposium

BREAK 1:45 PM – 2:00 PM

PARALLEL SYMPOSIA | 2:00 PM-4:00 PM

Symposium VII: Neurons as active players in neuroinflammation

Chairs: Lesley Probert (*Greece*) & Angela Vincent (*UK*)

2:00 PM-2:25 PM:

TBD

TBD

2:25 PM-2:40 PM:

126-Vesicle-mediated transfer of ribosomes from glia to axons during neuroinflammation

Christina Vogelaar (*University Medical Center Mainz, Germany*)

2:40 PM-3:05 PM:

Adaptive and innate immune mechanisms: context dependent bystanders or active players in neurodegeneration

Hans Lassmann (*Medical University of Vienna, Austria*)

3:05 PM-3:20 PM:

81-Hypothalamic AgRP neurons control lymphoid hematopoiesis in bone marrow and Treg generation in thymus.

Tiziana Vigo (*IRCCS Ospedale Policlinico San Martino, Italy*)

3:20 PM-3:45 PM:

Neuronal structure and function in the inflamed gray matter

Martin Kerschensteiner (*Ludwig-Maximilians University Munich, Germany*)

3:45 PM-4:00 PM:

168-Macrophages Facilitate Repair of Damaged Ribbon Synapses After Noise-Induced Hearing Loss

Vijayprakash Manickam (*Creighton University, USA*)

Symposium VIII: Peripheral nervous system: a central target of neuroinflammation

Chairs: Maartje Huijbers (*the Netherlands*) & Jean-Christophe Antoine (*France*)

2:00 PM-2:25 PM:

Glial-axonal interdependency at the node of Ranvier in autoimmune injury

Hugh Willison (*South Glasgow Hospitals University, UK*)

2:25 PM-2:40 PM:

372-Anti-GM1 flow cytometry cell based assay is more specific for diagnosis of AMAN than ELISA methods

Sabrine Salhi (*AP-HM Marseille, France*)



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- 2:40 PM-3:05 PM: **Nodo-paranodopathies: how autoantibody valency affects conduction in peripheral nerves**
Jérôme Devaux (*Institut de Neurosciences de Montpellier, France*)
- 3:05 PM-3:20 PM: **44-Autoreactive T cells in Guillain-Barré syndrome**
Daniela Latorre (*ETH Zurich, Switzerland*)
- 3:20 PM-3:45 PM: **Nociceptor Neuron regulation of barrier immunity and host defense**
Isaac Chiu (*Harvard Medical School, USA*)
- 3:45 PM-4:00 PM: **240-Utilizing Epigenetics to Understand Mechanisms Underlying Primary Progressive Multiple Sclerosis**
Majid Pahlevan Kakhki (*Karolinska Institutet, Sweden*)

Symposium IX: Gut microbiota and CNS inflammation

Chairs: Jennifer Gommerman (*Canada*)

- 2:00 PM-2:25 PM: **How the microbiota regulates susceptibility to CNS autoimmunity**
Ari Waisman (*University Medical Center of the Johannes Gutenberg University, Germany*)
- 2:25 PM-2:40 PM: **113-Dysbiosis in the Salivary Microbiome as a Promising Biomarker for Early Detection of Multiple Sclerosis**
Daiki Takewaki (*National Center of Neurology and Psychiatry, Japan*)
- 2:40 PM-3:05 PM: **Myelin-specific T cell trafficking to the gut triggers neuroinflammation**
Caroline Pot (*CHUV, Switzerland*)
- 3:05 PM-3:20 PM: **135-Microbiota-derived factors modulate intestinal immune cell function via the aryl hydrocarbon receptor and influence stroke outcome**
Corinne Benakis (*University Hospital Munich, Germany*)
- 3:20 PM-3:45 PM: **Grey Matters – The ageing microbiome and neuroinflammation**
Jennifer Gommerman (*University of Toronto, Canada*)
- 3:45 PM-4:00 PM: **310-The respiratory symbionts *Moraxella catarrhalis* and *Klebsiella pneumoniae* promote pathogenicity in myelin-reactive Th17 cells**
Jenny Mannion (*Trinity College Dublin, Ireland*)

BREAK 4:00 PM – 4:15 PM

PLENARY SESSION | 4:15 PM-5:45 PM

Plenary IV: Regeneration and neuroimmunomodulation

Chairs: Catherine Lubetzki (*France*) & Heinz Wiendl (*Germany*)

- 4:15 PM-4:45 PM: **Microglia roles in myelin health**
Veronique Miron (*University of Edinburgh – UK*)



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- 4:45 PM-5:15 PM: **Brain Macrophage Ontogeny and Functions in Health and Disease**
Florent Ginhoux (*SingHealth – Singapore*)
- 5:15 PM-5:45 PM: **The central nervous system at risk – regulatory processes in health and disease**
Frauke Zipp (*University Medical Center of the Johannes Gutenberg University Mainz – Germany*)

BREAK 5:45 PM – 6:00 PM

KEYNOTE LECTURE | 6:00 PM-7:00 PM

The Rita Levi-Montalcini Neurobiology Lecture

Chair: Michal Schwartz (*Israel*)

Neurovascular Interactions: Mechanisms, Imaging, Therapeutics

Katharina Akassoglou (*University of California, San Francisco, USA*)

POSTER SESSION

DAY V | FRIDAY NOVEMBER 12 – ALL TIMES IN GMT

PARALLEL WORKSHOPS | 10:30 PM-12:30 PM

Workshop XIII: Immunoregulation of neuroinflammation

Chairs: Roland Liblau (*France*)

10:30 AM-11:00 AM: **Myosotoxicity: a dark side of The Checkpoint Immunotherapy Revolution**

Yves Allenbach (*University Hospital, France*)

11:00 AM-11:15 AM: **365-MCAM involvement in regulatory T cell migration across the blood brain barrier: implications for multiple sclerosis**

Stephanie Zandee (*CRCHUM, UdeM, Canada*)

11:15 AM-11:30 AM: **96-Investigation of the opsonizing capacity of patient-derived anti-MOG antibodies**

Marie Freier (*University Medical Center, Georg August University Göttingen, Germany*)

11:30 AM-11:45 AM: **297-Flanking residues of a self-dominant peptide harnesses immunity via determining the stability of antigen-specific effector Tregs**

Youwei Lin (*National Institute of Neuroscience and National Center Hospital, National Center of Neurology and Psychiatry, Japan*)



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- 11:45 AM-12:00 PM: **315-Impaired Treg suppressive function in MS is correlated with an age- and treatment-dependent altered Treg dynamics**
Tiziana Lorenzini (University Hospital Zürich, Switzerland)
- 12:00 PM-12:15 PM: **348-Selective deletion of IDO1+ cDC1 worsened CNS inflammation in an experimental model of multiple sclerosis**
Giulia Scalisi (University of Perugia, Italy)
- 12:15 PM-12:30 PM: **229-Regulatory B cells ameliorate chronic CNS inflammation in an interleukin-10-dependent manner**
Silke Häusser-Kinzel (University Medical Center, Göttingen, Germany)

Workshop XIV: Diversity of brain myeloid cells

Chairs:

- 10:30 AM-11:00 AM: **Heterogeneity of myeloid cells in the CNS**
Marco Prinz (University Hospital Freiburg, Germany)
- 11:00 AM-11:15 AM: **16-Migration and functional polarization of monocyte derived cells across the central nervous system barriers during neuroinflammation**
Daniela C. Ivan (University of Bern, Theodor Kocher Institute, Switzerland)
- 11:15 AM-11:30 AM: **274-Oxysterol-production by brain endothelial cells suppresses Myeloid-Derived Suppressor Cells and promotes experimental autoimmune encephalomyelitis**
Florian Ruiz (Lausanne University Hospital and University of Lausanne, Switzerland)
- 11:30 AM-11:45 AM: **268-Neutrophil plasticity in neonatal hypoxic-ischemic brain injury**
Josephine Herz (University Hospital Essen, Essen, Germany)
- 11:45 AM-12:00 PM: **237-Microglia heterogeneity in different regions of the healthy mouse central nervous system**
Fazeleh Etebar (Queensland University of Technology, Australia)
- 12:00 PM-12:15 PM: **350-IL-15 expression is distinctly modulated on myeloid cells by inflammatory factors in MS**
Negar Farzam-kia (University of Montreal, Centre de Recherche du CHUM, Canada)
- 12:15 PM-12:30 PM: **147-Exploring the transcriptomic diversity of live human microglia in aging, neurodegeneration, and neuroinflammation**
John Tuddenham (Columbia University Irving Medical Center, USA)

Workshop XV: Metabolism in Neuroimmunology

Chairs: Anne Dejean (France)

- 10:30 AM-11:00 AM: **Targeting the metabolism of T cells for the treatment of autoimmune disease**
Luciana Berod (Johannes Gutenberg University Mainz, Germany)



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- 11:00 AM-11:15 AM: **10-iPSC-derived astrocytes from patients with Multiple Sclerosis show metabolic alterations**
Bruno Ghirrotto (*University of São Paulo, Brazil*)
- 11:15 AM-11:30 AM: **24-Dissecting the role of IGF1R in neuroinflammation: a parallel focus on oligodendrocytes and myeloid cells**
Giuseppe Locatelli (*University of Bern, Switzerland*)
- 11:30 AM-11:45 AM: **182-Regulation of human oligodendrocytes process extension by the integrated stress response.**
Florian Pernin (*McGill University, Canada*)
- 11:45 AM-12:00 PM: **233-Eomes regulates mitochondrial function and promotes survival of pathogenic CD4+ T cells during CNS autoimmunity**
Emeline Joulia (*Institut Toulousain Des Maladies Infectieuses Et Inflammatoires (Infinity), France*)
- 12:00 PM-12:15 PM: **68-Alterations in adipokine levels in MS patient cohort project Y**
Merel Rijnsburger (*Amsterdam UMC, MS Center Amsterdam, the Netherlands*)
- 12:15 PM-12:30 PM: **146-Metabolic regulation of MS specific neural stem cells**
Rosana-Bristena Ionescu (*University of Cambridge, UK*)

Workshop XVI: Tissue-resident T cells in CNS inflammation

Chairs: Hans Lassmann (*Austria*) & Doron Merkler (*Switzerland*)

- 10:30 AM-11:00 AM: **Tissue resident memory T cells in multiple sclerosis**
Joost Smolder (*University Medical Center Rotterdam, the Netherlands*)
- 11:00 AM-11:15 AM: **18-CD8 T cells target enteric neurons in patients with gastrointestinal dysmotility**
Anna Brunn (*University of Cologne, Germany*)
- 11:15 AM-11:30 AM: **215-Tissue-resident memory CD8+ T cells drive compartmentalized and chronic autoimmune damage against CNS neurons**
David Frieser (*Toulouse Institute for infectious and inflammatory diseases (Infinity), France*)
- 11:30 AM-11:45 AM: **309-Regulatory T cells counteract CNS neuroinflammation via TGF- β signalling in CNS myeloid cells**
Stefan Bittner (*University Medical Center of the Johannes Gutenberg University Mainz, Germany*)
- 11:45 AM-12:00 PM: **319-Cytotoxic-like Eomes+ Th cells in secondary progressive multiple sclerosis**
Ben Raveney (*National Institute of Neuroscience, NCNP, Japan*)
- 12:00 PM-12:15 PM: **117-Activated Eomes-Tfh1 cells infiltrate the cerebrospinal fluid in early Multiple Sclerosis**
Marion Mandon (*Univ Rennes, France*)



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12:15 PM-12:30 PM:

292-Contact-dependent granzyme B-mediated cytotoxicity of Th17 cells towards human oligodendrocytes

Hélène Jamann (*Centre de Recherche du Centre Hospitalier de l'Université de Montréal (CRCHUM), Université de Montréal, Canada*)

BREAK 12:30 PM – 12:40 PM

PANEL DISCUSSION | 12:45 PM-1:45 PM

Panel Discussion: Immunotherapy in MS: 8 key questions

Chairs: Giancarlo Comi (*Italy*) & Roland Liblau (*France*)

12:40 PM-12:48 PM

MS one or several diseases?

Catherine Lubetzki

12:48 PM – 12:56 PM

Is anti MOG a disease or one of the many variants of MS?

Kazuo Fujihara

12:56 PM-1:04 PM

Is MRI sensitive enough to detect inflammatory activity?

Heinz Wiendl

1:04 PM-1:12 PM

Is there any useful serum or CSF biomarker to detect and predict inflammatory activity?

Hans Peter Hartung

1:12 PM-1:20 PM

Immunotherapy of MS: induction or escalation?

Gilles Edan

1:20 PM-1:28 PM

Is there a role for cellular therapy?

Frauke Zipp

1:28 PM-1:36 PM

Can we fully block neuroinflammation in MS?

Howard Weiner

1:36 PM-1:44 PM

Which combination immunotherapy can we foresee for MS?

Patrick Vermersch

BREAK 1:45 PM – 2:00 PM

KEYNOTE LECTURE | 2:00 PM-3:00 PM

The Dale McFarlin Lecture

Chairs: Tomas Olsson (*Sweden*)

Translational research towards personalized medicine for MS and NMOSD

Takashi Yamamura (*NCNP, Japan*)



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BREAK 3:00 PM – 3:15 PM

PARALLEL SYMPOSIA | 3:15 PM-5:30 PM

Symposium X: Drainage and immunosurveillance of the CNS

Chair: Alexandre Prat (*Canada*)

- 3:15 PM-3:30 PM: **153-Pericytes play a protective role during neuroinflammation**
Dila Atak (*Koç University, Turkey*)
- 3:30 PM-3:55 PM: **Breaking (Bad) Brain Barriers Beliefs**
Jonathan Kipnis (*Washington University in St. Louis, School of Medicine, USA*)
- 3:55 PM-4:10 PM: **169-The role of the meningeal layers in CNS autoimmunity**
Arianna Merlini (*University Medical Center, Göttingen, Germany*)
- 4:10 PM-4:35 PM: **Harnessing brain T cells to modulate neurodegeneration**
Adrian Liston (*CHU PURPAN, AAA*)
- 4:35 PM-4:50 PM: **322-Migration across the blood-brain barrier affects mTOR signalling in regulatory T cells**
Pauline Baeten (*Hasselt University, Belgium*)
- 4:50 PM-5:15 PM: **Oligodendrocyte-derived extracellular vesicles as antigen-specific therapy for CNS inflammatory demyelination**
Abdolmohamad Rostami (*Thomas Jefferson University, USA*)
- 5:15 PM-5:30 PM: **166-Multiple sclerosis and circadian rhythm: a systematic review**
Francisco Lima-Neto (*State University of Montes Claros, Brazil*)

Symposium XI: Multi-omics in Neuroimmunology

Chair: Naomi Habib (*Israel*) & Burkhard Becher (*Switzerland*)

- 3:15 PM-3:30 PM: **82-Transcriptome guided optimization of in vitro culture conditions for adult primary microglia**
Raissa Timmerman (*Biomedical Primate Research Centre, the Netherlands*)
- 15:30-15:55: **TBD**
David Hafler
- 3:55 PM-4:10 PM: **262-Investigating B cells and their depletion in relapsing-remitting Multiple Sclerosis using DNA methylation patterns**
Ewoud Ewing (*Karolinska Institutet, Sweden*)
- 4:10 PM-4:35 PM: **Integrating genome, metagenome and data science to understand MS**
Sergio Baranzini (*University of California San Francisco, USA*)



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- 4:35 PM-4:50 PM: **326-Transcriptomic characterization of CSF reveals T and Myeloid cells as early players during MS disease onset**
Hanane Touil (*Columbia University Irving Medical Center, USA*)
- 4:50 PM-5:15 PM: **Applied epigenomics: insights into the pathogenesis of Multiple Sclerosis**
Maja Jagodic (*Karolinska Institutet, Sweden*)
- 5:15 PM-5:30 PM: **368-Large-scale phosphoproteomic mapping of RTKs reveals dynamic architecture and microglia expression in blunt TBI**
Rida Rehman (*Ulm University, Germany*)

Symposium XII: Immunopsychiatry: is it a nascent field?

Chair: Roberto Furlan (*Italy*)

- 3:15 PM-3:30 PM: **33-Encephalitis with Autoantibodies against the Glutamate Kainate Receptor (GluK2)**
Jon Landa (*Universitat de Barcelona, Spain*)
- 3:30 PM-3:55 PM: **Towards a clinical immunological diagnosis of psychiatric disorders**
Hemmo A. Drexhage (*University Medical Center Rotterdam, the Netherlands*)
- 3:55 PM-4:10 PM: **164-GABAAR autoantibodies have differential effect on GABAAR and contribute differently to GABAAR encephalitis**
Adriana van Castern (*Charité universitätsmedizin, Germany*)
- 4:10 PM-4:35 PM: **Modulatory roles of the immune system in shaping animal behaviors**
Jun Huh (*Harvard Medical School, USA*)
- 4:35 PM-4:50 PM: **80-Deviated B cell receptor repertoire in Myalgic Encephalomyelitis/Chronic Fatigue Syndrome**
Wakiro Sato (*National Institute of Neuroscience, National Center of Neurology and Psychiatry, Japan*)
- 4:50 PM-5:15 PM: **Remembering immunity: brain representation of peripheral immune activity**
Asya Rolls (*Technion, Israel Institute of Technology, Israel*)
- 5:15 PM-5:30 PM: **279-Slow disease progression and clinical heterogeneity make anti-CASPR2 encephalitis a diagnostic challenge**
Jeanne Benoit (*Hospices Civils de Lyon, Hôpital Neurologique, France*)

BREAK 17:30 – 17:45



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WE ARE NEUROIMMUNOLOGY | 17:45-18:30

CLOSING

