2020 FASEB Conference
Translational Neuroimmunology: From Mechanisms to Therapeutics

Organizers:
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*(All times are based on Eastern Standard Time)*

June 29, 2020 – Day 1

9:00 – 9:15 AM  Welcome

9:15 – 9:45 AM  Keynote Address: Immunotherapy of MS: A Historical Perspective –
Jeff Cohen (Cleveland Clinic)

9:45 -10:00 AM  Break

10:00 AM – 12:00 PM  Session 1: CNS Regulation of Peripheral Inflammation –
Session Chair: Dana McTigue (The Ohio State University)

10:00 – 10:30 AM  Brain and Peripheral Cholinergic Signaling in the Regulation of
Inflammation - Valentin Pavlov (Feinstein Institute for Medical Research)

10:30 – 11:00 AM  Spinal Cord Injury Causes Chronic Hepatic Inflammation and
Metabolic Disruption in Rodents - Dana McTigue (The Ohio State
University)

11:00 – 11:30 AM  Regulation of Proliferation and Differentiation of Myeloid Progenitors
by the Sympathetic Nervous System - Partha Dutta (University of
Pittsburgh Medical Center)
11:30 – 11:45 AM  Panel Discussion

11:45 AM – 12:00 PM  Break

12:00 – 12:30 PM  Short Talks

12:00 – 12:15 PM  Splenic Sympathetic Signaling Contributes for Acute Neutrophil's Infiltration of the Injured Spinal Cord – Susan Monteiro (University of Minho, Braga, Portugal)

12:15 – 12:30 PM  Arginase 1-expressing Myeloid Cells Regulate Th17-mediated EAE – Jefferey R. Atkinson (The Ohio University)

12:30 – 1:30 PM  Lunch Break/ Meet the Expert Session with Dana McTigue, Veronique Miron, and Craig Walsh

1:30 – 3:30 PM  Session 2: Immune Cells as Mediators of CNS Repair
Session Chair: Veronique Miron (University of Edinburgh)

1:30 – 2:00 PM  The Rise and Fall of Microglia Driving CNS Remyelination – Veronique Miron (University of Edinburgh)

2:00 – 2:30 PM  The Roles of Regulatory T Cell in Remyelination and Tissue Regeneration in the CNS – Craig Walsh (University of California, Irvine)

2:30 – 3:00 PM  Neutrophil heterogeneity: A Pro-regenerative Neutrophil Stimulates Axon Regeneration After CNS Trauma - Andrew Sas (The Ohio State University)

3:00 – 3:30 PM  Neuregulin-1 Regulation of Neuroprotection, Neuroinflammation and Neurorepair After Ischemic Stroke - Byron Ford (University of California Riverside)

3:30 – 3:45 PM  Panel Discussion

3:45 – 5:00 PM  Poster Session #1 (Posters will be available online one to two days prior to the meeting. Session time will be devoted to live chat among
attendees) (Exhibit Hall)

5:00 – 5:15 PM  
**Break**

5:15 – 6:00 PM  
**Short Talks**

5:15 – 5:30 PM  
Microglia Influence Host Defense, Disease, and Repair Following Murine Coronavirus Infection of the Central Nervous System - **Amber Syage** *(University of California Irvine)*

5:30 – 5:45 PM  
IFN-γ Signaling in Astrocytes Leads to Proteasome Activation, Reduces Accumulation of Oxidized Proteins and is Protective During EAE - **Jessica Williams** *(Cleveland Clinic)*

5:45 – 6:00 PM  
RIPK3 Activation in Astrocytes During Zika Virus Infection Limits CNS Viral Burden and Promotes Protective Neuroinflammation. **Marissa Lindman** *(Rutgers University)*

June 30, 2020 – Day 2

8:30 – 8:45 AM  
Welcome and Lessons Learned from Day 1

8:45 – 9:15 AM  
Keynote Address1: Examples of Translational Neuroimmunology – **Alex Prat** *(University of Montreal)*

9:15 – 9:45 AM  
Keynote Address 2: The Brain Barriers Maintain CNS Immune Privilege – **Britta Engelhardt** *(University of Bern)*

9:45 – 10:00 AM  
**Break**

10:00 – 11:45 AM  
**Session 3: The Role of the Adaptive Immune System in Primary Neurological Diseases**  
Session Chair: **Manu Rangachari** *(Laval University)*

10:00 – 10:30 AM  
Improving Autoantibody Detection for the Diagnosis of Autoimmune Encephalitis - **Eric Lancaster** *(University of Pennsylvania)*
10:30 – 11:00 AM Male Sex and Th17 Cells Exacerbate Disease in a Mouse Model of Progressive CNS Autoimmunity - Manu Rangachari (Laval University)

11:00 – 11:30 AM Epigenetic Reprogramming of the Brain Tumor Immune Microenvironment in Mutant IDH1 Gliomas: Implications for Immunotherapies - Maria Castro (University of Michigan)

11:30 – 11:45 AM Panel Discussion

11:45 AM – 12:00 PM Break

12:00 – 12:30 PM Short Talks

12:00 – 12:15 PM Type III Interferon Limits Recovery and Promotes Axonal Injury During Autoimmune Neuroinflammation - Sindhu Manivasagam (Washington University)

12:15 – 12:30 PM Neurovascular Endothelial Cells Modulate Immune-brain Signaling After Psychosocial Stress - Wenyuan Yin (The Ohio State University)

12:30 – 1:30 PM Lunch Break/Meet the Experts Session with Britta Engelhardt, Manu Rangachari, and Tim Vartanian

1:30 – 3:45 PM Session 4: Innate Immune System in CNS Pathology
Session Chair: Tim Vartanian (Cornell University)

1:30 – 2:00 PM From Gut Microbe to Multi-focal Demyelination: Clostridium Perfringens Epsilon Toxin and the Newly Forming MS Lesion – Tim Vartanian (Cornell University)

2:00 – 2:30 PM Staphylococcus Aureus Biofilm Induces Immune Dysfunction During Craniotomy-associated Infection - Tammy Kielian (University of Nebraska)

2:30 – 3:00 PM Neutrophil Subsets in Brain-targeted Experimental Autoimmune Encephalomyelitis – Etty Benveniste (University of Alabama at Birmingham)
3:00 – 3:30 PM  Ex­am­in­ing the Func­tion of TREM2 with Hu­man Mi­cro­glia and Chi­méric Mice – Matt Blurton-Jones (Univer­sity of Cal­ifor­nia Irvine)

3:30 – 3:45 PM  Pa­nel Di­scus­sion

3:45 – 5:00 PM  Poster Ses­sion #2 (Post­ers will be avail­able online one to two days prior to the meet­ing. Ses­sion time will be de­voted to live chat among at­ten­dees) (Ex­hibit Hall)

5:00 – 5:30 PM  Wrap-up (The­a­ter/Main Stage)