

Peter O'Donnell Brain Institute Symposium

Neuroimmunology of CNS Disorders

Date: March 27-28, 2024

Venue: T. Boone Pickens Auditorium

Planning committee: Anna Victoria Molofsky
Jennifer Graves
Benjamin Segal
Olaf Stuve

Program:

Wednesday, March 27, 2024

8:15 a.m. – 8:30 a.m.: Welcome, opening remarks William Dauer, M.D.

Session 1: Multiple sclerosis – Pathogenesis and genetics

8:30 a.m. – 9:00 a.m.: The latest updates on MS pathogenesis Olaf Stüve, M.D., Ph.D.

9:00 a.m. – 9:30 a.m.: Radiologically isolated syndrome Darin Okuda, M.D.

9:30 a.m. – 10:00 a.m.: Childhood MS – differentiating it from other CNS autoimmune disorders Benjamin Greenberg, M.D.

10:00 a.m. – 10:30 a.m. Genetics of MS Philip De Jager, M.D., Ph.D.

10:30 a.m. – 10:45 a.m.: Coffee break

10:45 p.m. – 11:15 p.m.: Genetic ancestry effects vs. social determinants of health in the MS population Lilyana Amezcua, M.D.

11:15 p.m. – 11:45 pm Sex steroid hormones in MS: From bench to bedside Rhonda Voskuhl, M.D.

11:45 a.m. – 12:15 p.m.: Panel discussion

12:15 p.m. – 1:15 p.m.: Lunch

Session 2: Epstein Bar Virus and MS

1:15 p.m. – 1:45 p.m.:	EBV and other environmental factors in MS pathogenesis	Alberto Ascherio, M.D., Dr. P.H.
1:45 p.m. – 2:15 p.m.:	Antibodies to EBV and CNS autoantigens	Tobias Lanz, M.D.
2:15 pm. – 2:45 pm:	Coffee break	
2:45 p.m. – 3:15 p.m.:	Innate immune response in the brain to viral pathogens	John Beckham, M.D.
3:15 p.m. – 3:45 p.m.:	mRNA EBV vaccine to prevent MS	TBD
3:45 pm. – 4:15 pm:	Coffee break	

Young investigator presentations

4:15 p.m – 4:35 pm.:	Presentation: “Neuron-immune interactions in chemotherapy-induced peripheral neuropathy,” Grace Ji-eun Shin, Ph.D., Assistant Professor, Department of Neurology, The Ohio State University
4:35 p.m – 4:55 pm.:	Presentation: "The role of neuroinflammation in tauopathies," Barbara Stopschinski, M.D., Instructor, Department of Neurology, UT Southwestern
4:55 p.m – 5:15 pm.:	Presentation: Victor Salinas, M.D., Assistant Professor, Department of Neurology, UT Southwestern
5:15 p.m – 5:35 pm.:	Presentation 3

Day one adjourns

Thursday, March 28, 2024

Session 3: Cellular mediators of CNS inflammation

8:30 a.m. – 9:00 a.m.:	Microglia and other myeloid cells	John Lukens, Ph.D.
9:00 a.m. – 9:30 a.m.:	Astrocytes in inflammation	Francisco Quintana, Ph.D.
9:30 a.m. – 10:00 a.m.:	Neuroprotective innate immunity	Benjamin Segal, M.D.
10:00 a.m. – 10:30 p.m.:	B cell-mediated encephalitides	Jeffrey L. Bennett, M.D., Ph.D.
11:00 a.m. – 11:30 a.m.:	Panel discussion	

11:30 a.m. – 12:30 p.m.: Lunch

Session 4: The heterogeneity of multiple sclerosis

12:30 p.m. – 1:00 pm	MS Across the Lifespan: Age and Sex effects	Jennifer Graves, M.D., Ph.D., MAS
1:00 p.m. – 1:30 p.m.:	Pathological MS subtypes	Claudia Lucchinetti, M.D.
1:30 p.m. – 2:00 p.m.:	Biological underpinnings of imaging markers in MS s	Daniel Reich, M.D., Ph.D.
2:00 p.m. – 2:30 pm:	Panel discussion	

2:30 pm. – 3:00 pm: Coffee break

Session 5: Biological barriers in neuroinflammation

3:00 p.m. – 3:30 pm	The blood-brain barrier in CNS autoimmunity	Alexandre Prat, M.D., Ph.D.
3:30 p.m. – 4:00 p.m.:	The meninges in immune regulation	Jonathan Kipnis, Ph.D.
4:00 p.m. – 4:30 p.m.:	Visualization of CNS immune responses in the brain	Dorian McGavern, Ph.D.
4:30 p.m. – 5:00 pm:	Panel discussion	

Day two adjourns