

Scientific Program

August 19th

9:00-10:15 Keynote Lectures

9:00-9:45 KL-1

Hartmut Wekerle (x-Planck Institute of Neurobiology, Germany) (45 min)

Title to be announced

9:45-10:15 KL-2

Richard M. Ransohoff (Cleveland Clinic, USA) (30 min)

MS pathogenesis from the inside-out: A new perspective

10:15-10:30 Coffee Break

10:30-12:00 Session 1: T regs

10:30-11:00 **Stephen M. Anderton** (University of Edinburgh, UK) (30 min)

Foxp3-expressing T regulatory cells as natural and therapeutic suppressors of autoimmune inflammation in the CNS

11:00-11:30 **Margarita Dominguez-Villar** (Yale School of Medicine, USA) (30 min)

Identification of "Th1 type" Foxp3⁺ regulatory T cells in human autoimmune disease

11:30-12:00 **Sachiko Miyake** (National Institute of Neuroscience, Japan) (30 min)

Title to be announced

12:00-13:00 Lunch and Sponsored Seminar

Richard M. Ransohoff (Cleveland Clinic, USA) (50 min)

Identification of a biomarker for the treatment response to IFN

13:00-13:30 Intermission

13:30-15:00 Session 2: Th17 (I)

13:30-14:00 **Daniel J Cua** (Merck Research Laboratories, USA) (30 min)

Title to be announced

14:00-14:30 **Ari Waisman** (Johannes-Gutenberg University of Mainz, Germany) (30 min)

Th17 and IL-17 responses in autoimmunity

14:30-15:00 **Burkhard Becher** (University Hospital of Zurich, Switzerland) (30 min)

GM-CSF secretion by T_H cells is mediated by ROR γ t and essential for autoimmune neuro-inflammation

15:00-15:20 Coffee Break

15:20-16:55 Session 3: Th17 (II)

15:20-15:50 **Jingwu Z Zhang** (GlaxoSmithKline Research and Development Center, China) (30 min)
Critical role of interleukin 7 in T helper-17 survival and expansion in autoimmune disease

15:50-16:20 **Stephen D. Miller** (Northwestern University, Chicago, USA) (30 min)
Opposing roles of IL-17-producing gamma-delta T cells and antigen-specific tolerance in the pathogenesis of EAE

16:20-16:50 **Yuji Nakatsuji** (Osaka University, Japan) (30 min)
Sema4A as a diagnostic marker of multiple sclerosis and its implication in Th17 pathology

16:50-17:50 Poster Viewing

18:00 Bus Departure to the Dinner

August 20th

8:45-10:45 Session 4: Genetics

8:45-9:15 **Tomas Olsson** (Karolinska Institutet, Sweden) (30 min)
Genes and lifestyle/environmental factors in MS

9:15-9:45 **Maja Jagodic** (Karolinska Institutet, Sweden) (30 min)
Evidence for significant epigenetic regulation of neuroinflammation

9:45-10:15 **Caroline Whitacre** (Ohio State University, USA) (30 min)
MicroRNAs modulate immune function in multiple sclerosis (MS)

10:15-10:45 **Amy Lovett-Racke** (Ohio State University, USA) (30 min)
Therapeutic potential of small RNAs in multiple sclerosis

10:45-11:00 Coffee Break

11:00-12:00 Session 5: GLIA and BBB (I)

11:00-11:30 **Trevor Owens** (University of Southern Denmark, Denmark) (30 min)
Microglial modulation of CNS inflammation

11:30-12:00 **Akio Suzumura** (Nagoya University, Japan) (30 min)
Microglia and neuronal degeneration

12:00-13:00 Lunch

13:00-15:00 Session 6: GLIA and BBB (II)

13:00-13:30 Takashi Kanda (Yamaguchi University) (30 min)

Title to be announced

13:30-14:00 Roberto Furlan (San Raffaele Hospital, Italy) (30 min)

Microparticles in the cerebrospinal fluid reflect microglia/macrophage activation in rodent and human neurological disorders

14:00-14:30 Britta Engelhardt (University of Bern, Switzerland) (30 min)

T cell migration into the CNS during health and disease: Different molecular keys allow access to different CNS compartments

Two short talks (15 min each) selected from abstracts (30 min)

15:00~: Kyoto City Tour

August 21st

8:45-10:15 Session 7: MS Immunology

8:45-9:15 Zsolt Illés (University of Pecs Medical School, Hungary) (30 min)

Inhibiting poly(ADP-ribose) polymerase (PARP): a potential therapy against oligodendrocyte death and demyelination in multiple sclerosis

9:15-9:45 Amit Bar-Or (Montreal Neurological Institute, Canada) (30 min)

Experimental therapies and special population as windows into human CNS inflammatory disease

9:45-10:15 Takashi Yamamura (National Institute of Neuroscience, Japan) (30 min)

Asian type MS versus Western type MS: Immunological background

10:15-10:30 Coffee Break

10:30-12:00 Session 8: NMO and neuropathy

10:30-11:00 Kazuo Fujihara (Tohoku University, Japan) (30 min)

A clinical CSF biomarker study of astrocytic damage in NMO

11:00-11:30 Susumu Kusunoki (Kinki University) (30 min)

Anti-ganglioside complexes antibodies in Guillain-Barre syndrome

Two short talks (15 min each) selected from abstracts (30 min)

12:00 Closing remarks: Takashi Yamamura