

9th International Congress of Neuroimmunology Program

Sunday, October 26, 2008 – Course and Reception

Plenary Sessions

Monday, October 27, 2008 - Pathogenesis of Neuroimmune Disorders

Chair, Hartmut Wekerle and Scott Zamvil

- 9:00a.m. -9:15 a.m. Welcome, Hartmut Wekerle, ISNI President
- 9:15 a.m. – 10:00 a.m. McFarlin Memorial Lecture, Larry Steinman Stanford Univ.
“Large Scale Analysis of Proteins, Lipids and Gene Transcripts in MS Tissue Reveal Multiple Therapeutic Targets for Different Stages of Disease”
- 10:00 a.m. – 10:45 a.m. Newsome-Davis Memorial Lecture, Angela Vincent Univ. of Oxford
“Autoimmune channelopathies: John's legacy”
- 10:45 a.m. – 11:30 a.m. Josep Dalmau Univ. of Pennsylvania
“Immune-mediated disorders of memory, cognition, and psychosis”

Tuesday, October 28, 2008 - Advances in Imaging

Chair, Jerry Wolinsky

- 9:00 a.m. – 9:40 a.m. Jerry Wolinsky Univ. of Texas at Houston
“MRI's role in the modern diagnosis and management of MS”
- 9:40 a.m. – 10:20 a.m. Christoph Wuelfing Univ. of Texas Southwestern
“Dynamic spatiotemporal patterning in the immunological synapse as a regulator of T cell activation”
- 10:20 a.m. -11:00 a.m. Alexander Fluegel Max Planck Inst. Neurobiology
“Immune surveillance and autoimmunity: how encephalitogenic T cells enter their target organ”
- 11:00 a.m. – 11:40 a.m. Massimo Filippi Ospedale San Raffaele
“How MR-based technology is changing our views on the pathophysiology of multiple sclerosis”

Wednesday, October 29, 2008 – Effector Mechanisms

Chair, Arlene Sharpe and Takashi Yamamura

- 9:00 a.m. – 9:40 a.m. Dan Littman New York Univ.
“Transcriptional regulation of inflammatory T cell differentiation”
- 9:40 a.m. – 10:20 a.m. Vijay Kuchroo Harvard Univ.
“Interplay of pathogenic Th17 and regulatory T cells in CNS autoimmunity”
- 10:20 a.m. – 11:00 a.m. Arlene Sharpe Harvard Univ.
“Role of PD-1, PD-L1 and their ligands in regulating T cell activation and tolerance”

11:00 a.m. – 11:40 a.m.
Inst for Gene Therapy

Maria Grazia Roncarolo

San Raffaele Telethon

Thursday, October 30, 2008 – Neuroprotection

Chair, Douglas Kerr

9:00 a.m. – 9:40 a.m. Robin Franklin Univ. of Cambridge

“Stem cells, precursors and the biology of CNS remyelination”

9:40 a.m. – 10:20 a.m. Steve Strittmatter Yale Univ.

“Myelin proteins inhibiting axonal plasticity and regeneration in the adult brain and spinal cord”

10:20 a.m. – 11:00 a.m. Douglas Kerr Johns Hopkins Univ.

“Stem Cells, Inflammation and Neural Repair”

11:00 a.m. – 11:40 noon Steve Goldman Univ of Rochester

“Progenitor cell-based strategies for treating disorders of central myelin”

Lunch Symposia – Immuno Therapy 12:00 – 1:00 daily

Monday, October 27 Steve Hauser Univ. of California at San Francisco

“Targeted Therapy: B cells join the A-list”

Tuesday, October 28 Richard Nash Univ. of Washington

“Is There a Role for Hematopoietic Stem Cell Transplantation in Autoimmune Neurological Diseases?”

Wednesday, October 29 Gil Wolfe Univ of Texas Southwestern

“MGTX: Rationale for the thymectomy trial in non-thymomatous myasthenia gravis”

Concurrent Symposia

Monday October 27, 2008

Genetics of CNS Diseases 1:15p.m.-3:15p.m.

Chair, Jorge Oksenberg

1:15 p.m.-1:45p.m. Ward Wakeland Univ of Texas Southwestern

1:45p.m.-2:15p.m. Jorge Oksenberg Univ of California San Francisco

“Mapping genetic susceptibility and modeling pathogenesis in multiple sclerosis”

2:15p.m.-2:45p.m. James Lupski Baylor University

“Genomic disorders: mechanisms and clinical implementation of high resolution genome analysis”

Signal Transduction in Neuroimmunology 1:15p.m.-3:15p.m.

Chair, Walter Royal

- 1:15 p.m.-1:45p.m. Amy Weinmann Univ. of Washington
"The role for T-box proteins in the induction of epigenetic states"
- 1:45p.m.-2:15p.m. Amy Lovett-Racke Ohio State University
"Role of T-bet in Regulating Autoimmune Th1 and Th17 Cells"
- 2:15p.m.-2:45p.m. Hilde Cheroutre Univ of California at San Diego
"Gut feelings in Immunology"
- 2:45p.m.-3:15p.m. Walter Royal Univ. of Maryland
"Vitamin D and Retinoid Effects on Immune Function in Multiple Sclerosis"

Dendritic Cells in Neuroimmunology **1:15p.m.-3:15p.m.**

Chair, Steve Miller

- 1:15 p.m.-1:45p.m. J. Bancherau Baylor Univ
"Taking Dendritic Cells into Medicine"
- 1:45p.m.-2:15p.m. Burkhard Becher Univ. of Zurich
"Encephalitogenicity: on T cell flavors and knock-out mice"
- 2:15p.m.-2:45p.m. Yong-Jun Liu Univ of Texas MD Anderson
"Human dendritic cells in regulating innate and adaptive immune responses"
- 2:45p.m.-3:15p.m. B. Segal Univ of Michigan

"Cytokine networks that regulate myeloid cell trafficking and differentiation in CNS autoimmunity"

B-Cells in Neuroimmunologic Disease **1:15p.m.-3:15p.m.**

Chair, Francesca Aloisi

- 1:15p.m.-1:45p.m. Bernard Hemmer Technical University, Munich
"Antibodies and B cells in CNS inflammation"
- 1:45p.m.-2:15p.m. Bar-Or Amit McGill Univ.
'B cell subsets as targets in MS'
- 2:15p.m.-2:45p.m. Francesca Aloisi Istituto Superiore di Sanità in Rome
"Pathogenic relevance of ectopic B-cell follicles in MS"
- 2:45 p.m.-3:15p.m. Ann Cross Washington Univ
"B cell depletion as an add-on therapy in relapsing MS"

Tuesday October 28, 2008

Infection of the CNS **1:15p.m.-3:15p.m.**

Chair, Hugh Perry

- 1:15 p.m.-1:45p.m. Tammy Kielian Univ of Arkansas
"Toll-like receptors (TLRs): a link between innate and adaptive immunity and tissue injury in bacterial brain abscesses"
- 1:45p.m.-2:15p.m. Madeline Cunningham Univ of Oklahoma
"Autoimmunity and Behavior: Sydenham's Chorea and Related Disorders"
- 2:15p.m.-2:45p.m. Avi Nath Johns Hopkins Univ

"Immune reconstitution syndrome in HIV infection"
2:45p.m.-3:15p.m. Hugh Perry Univ. of Southampton

"The impact of systemic inflammation on the brain in health and disease"

Innate Immunity 1:15p.m.-3:15p.m.

Chair, Serge Rivest

1:15 p.m.-1:45p.m. Serge Rivest Laval University

"Bone marrow stem cells to the rescue of brain diseases"

1:45p.m.-2:15p.m. Tim Vartanian Harvard Univ.

"Innate Immunity in Degeneration and Regeneration of the CNS: The Good and Evil of Host Defense"

2:15p.m.-2:45p.m. Tony Wyss –Coray Stanford Univ.

"TGF beta signaling in immune mediated CNS disease"

2:45p.m.-3:15p.m. William Karpus Northwestern Univ

"Antigen presenting cell regulation of CNS chemokine expression"

Hormonal Regulation of Neuroimmunologic Disease 1:15p.m.-3:15p.m.

Chair, Betty Diamond

1:15 p.m.-1:45p.m. Rhonda Voskuhl Univ of California Los Angeles

"Estrogen treatments in EAE/MS"

1:45p.m.-2:15p.m. Halina Offner Oregon Health Sciences Univ

"Immunoregulatory and Neuroprotective Effect of Sex Steroids on EAE and MS"

2:15p.m.-2:45p.m. Lee Nelson Univ of Washington

"Microchimerism: The legacy of maternal-fetal cell traffic"

2:45p.m.-3:15p.m. Betty Diamond Columbia Univ.

"Hormonal influences on the B cell repertoire and predisposition to autoimmunity"

Developments in Myasthenia Gravis 1:15p.m.-3:15p.m.

1:15 p.m.-1:45p.m. Ellen Kraig Univ of Texas at San Antonio

"Use of a novel transgenic model to unravel mechanisms of tolerance to AChR"

1:45p.m.-2:15p.m. P. Christadoss Univ of Texas Medical Branch at Galveston

"Classical complement pathway and IL-6 in autoimmune myasthenia gravis pathogenesis"

2:15p.m.-2:45p.m. Kazuhiro Shigemoto

"Myasthenia gravis experimentally induced with muscle-specific kinase"

Wednesday October 29, 2008

T-Regulatory Cells in Human Immunology 1:15p.m.-3:15p.m.

Chair, Steven Ziegler

1:15 p.m.-1:45p.m. Clare Becher-Allen

"Functionally Distinct populations of human natural CD25^{high} Tregs in healthy donors and patients with Multiple Sclerosis"

1:45p.m.-2:15p.m. Steven Ziegler Benaroya Research Inst. At Virginia Mason

"FOXP3 and Regulatory T cell Function"
2:15p.m.-2:45p.m. Nitin Karandikar Univ of Texas Southwestern

"CD4 and CD8 regulatory T cells in multiple sclerosis"

Neuroprotective Strategies in Neuroimmunologic Disease 1:15p.m.-3:15p.m.

Chair, Samia Khoury

1:15 p.m.-1:45p.m. S Khoury Harvard Univ
"Interactions between the immune system and neural stem cells"

1:45p.m.-2:15p.m. J. Kipnis Univ of Virginia
"T cell-astrocyte crosstalk in health and disease"

2:45p.m.-3:15p.m. Gianvito Martino Univ Vita-Salute San Raffaele
"Regenerating the brain; the role of neural stem cells"

Paraneoplastic and Post-Infectious Syndromes 1:15p.m.-3:15p.m.

Chair, Steven Vernino

1:15 p.m.-1:45p.m. Steve Vernino Univ of Texas Southwestern
"Autoimmune Autonomic Ganglionopathy"

1:45p.m.-2:15p.m. Hugh Willison Univ of Glasgow
"Anti-glycolipid antibodies in Guillain Barre syndrome"

2:15p.m.- 2:45p.m. Susumu Kusunoki
"Antibodies to gangliosides and ganglioside complexes in autoimmune neuropathies"

Immune Regulation and Tolerance 1:15p.m.-3:15p.m.

Chair, Joan Goverman and Thomas Forsthuber

1:15 p.m.-1:45p.m. Joan Goverman Univ of Washington

1:45p.m.-2:15p.m. JM Van Noort
"The dual-face role of alpha B-crystallin in MS"

2:15p.m.-2:45p.m. Monica Carson Univ of California Riverside
"Defining molecular tipping points between CNS neuroregeneration and neurodegeneration: the impact of regulating microglial responses"

2:45p.m.-3:15p.m. Thomas Forsthuber Univ of Texas at San Antonio
"T cell tolerance to neuroantigens mediated by HLA-DR2 haplotype molecules"

Thursday October 30, 2008

Gene Therapy of Gliomas Noon-2:00p.m.

Chair, Maria Castro and Nino Chiocca

Noon-12:30p.m. Nino Chiocca Ohio State Univ

“Immune responses against gene and viral therapy in the brain”

12:30p.m.-1:00p.m. Maria Castro Univ of California Los Angeles

“Brain Tumor Cell Death Mediates Toll-like Receptor 2 Signaling and Contributes to Tumor Regression and Anti-tumor Adaptive Immunity”

Virus-Induced Autoimmune Disease

Noon-2:00p.m.

Chair, Robert Fujinami

Noon-12:30p.m. Robert Fujinami Univ of Utah

“Peripheral infections can lead to CNS disease – infection of the CNS is not required for inflammation and demyelination”

12:30p.m.-1:00p.m. Pedro Lowenstein Univ of California Los Angeles

“Immunological synapses: the cellular and molecular biology of antiviral immune responses in the brain”

1:00p.m.-1:30p.m. Matthias Von Herrath La Jolla Inst for Allergy and Immunology

“Understanding how viruses can enhance as well as stop autoimmune processes”

1:30p.m.-2:00p.m. Susan Weiss Univ of Pennsylvania

“Determinants of murine coronavirus pathogenesis in the central nervous system”

Nuclear Hormone Receptors in Neuroimmunologic Disease

Noon-2:00p.m.

Chair, Paul Drew and Gary Landreth

Noon-12:30p.m. Dana McTigue Ohio State Univ

“The role of PPARs after spinal cord injury”

12:30p.m.-1:00p.m. Paul Drew Univ of Arkansas

“Peroxisome Proliferator-Activated Receptor Agonists: Relevance to Multiple Sclerosis”

1:00p.m.-1:30p.m. Gary Landreth Case Western Univ

1:30p.m.-2:00p.m. Michael Heneka Univ of Bonn

“Role of PPAR γ in neurodegeneration and inflammation”

Neurodegeneration in the CNS

Noon-2:00p.m.

Chair, Claire Shepherd and Stan Appel

Noon-12:30p.m. Anna Bruce-Keller, Louisiana State University

“How free radical formation in microglia and macrophages impinges on neurodegenerative disease”

12:30p.m.-1:00p.m. Claire Shepherd, Prince of Wales Medical Research Inst (Sydney)

“Neuroinflammation, abnormal protein deposition and neuronal cell loss”

1:00p.m.-1:30p.m. Phil Popovich Ohio State Univ

“Manipulating the immune system to promote spinal cord repair”

1:30p.m.-2:00p.m. Akio Suzumura

“Therapeutic strategies against microglia-induced neurotoxicity”