Tri-Society Annual Conference 2009
of the Society for Leukocyte Biology, International Cytokine Society, & International Society for Interferon and
Cytokine Research

Cellular and Cytokine Interactions in Health and Disease

October 18-21, 2009
Lisbon Convention Center
Lisbon, Portugal

Meeting Chair: Luis Montaner
Executive Committee: Scott Durum, Luis Montaner and Michael Tovey
Organizers: Ana Costa-Pereira, Thomas Decker, David Levy, Alberto Mantovani, Michael Parkhouse, Giorgio Trinchieri
and Rui Victorino

(Note: The code preceding the title indicates its location in the Abstract Book. If no code appears, there is no abstract provided.)

Sunday, October 18th

11:00 AM – 5:30 PM  Registration – Ground Floor Foyer

12:30 PM – 2:15 PM  SLB Presidential Awards Presentations - Auditorium 1

Chairs: Matthew Fenton and William Nauseef

12:30 – 12:45 PM  Introduction Matthew Fenton and William Nauseef

POST – DOC AND JUNIOR FACULTY FINALISTS

12:45 – 1:00 PM  (SLBAW1-A) c-Myc Triggers Macrophage Alternative Activation and Controls Macrophage Activity and Survival in Tumour Oscar Pello, Istituto Clinico Humanitas, Milano, IT

1:00 – 1:15 PM  (SLBAW1-B) Granule Exocytosis Contributes to TNF-Alpha and PAF-Induced Priming in Human Neutrophils Silvia M. Uriarte, University of Louisville, Louisville, KY, USA

1:15 – 1:30 PM  (SLBAW1-C) Heightened Activation of Plasmacytoid Dendritic Cells and Increased NK Activity in HIV-1 Exposed, Uninfected Intra-venous Drug Users Costin Tomescu, The Wistar Institute, Philadelphia, PA, USA

STUDENT FINALISTS

1:30 – 1:45 PM  (SLBAW2-A) A Diffusion Barrier in the Plasma Membrane During the Closure Stage of Macropinocytosis Timothy P. Welliver, University of Michigan, Ann Arbor, MI, USA

1:45 – 2:00 PM  (SLBAW2-B) Long Range Genomic Cytokine-Receptor Interaction Regulates Gene Expression Chrysoula Deligianni, IMBB-FORTH, Heraklion, GR

2:00 – 2:15 PM  (SLBAW2-C) Soluble Human CXCR2: Structure, Properties, Bioactivity Kanstantsin Katlinski, The Research Center for Hematology & Transfusiology, Minsk, BY

2:20 PM – 5:30 PM  Plenary Award Session - Auditorium 1

Chairs: Eleanor Fish, Scott Durum, William M. Nauseef, and John Sims
2:20 – 2:25 PM  Awards and Recognitions Introduction: Luis Montaner

2:25 – 2:35 PM  Tri-Society Recognition of Joe Oppenheim: Scott Durum

2:35 – 2:50 PM  G. Jeanette Thorbecke Award, SLB: William Nauseef
Julie Margarian Blander, Mount Sinai School of Medicine, New York, NY, USA

2:50 – 3:10 PM  ISICR Awards Presentations: Robert Silverman
Honorary Membership – Sidney Grossberg and Charles Weissmann
2009 Seymour & Vivian Milstein Award – Glen Barber and Peter Staeheli
2009 Milstein Young Investigator Award – Hiroki Ishikawa, Xiao-Ling Li, Niamh Mangan,
Ramin Rahbar, Benjamin Tenover
2009 Christina Fleischmann Award - Caini Liu
2009 Outgoing President – Eleanor Fish

3:10 – 3:30 PM  ICS Awards Presentations: John Sims
Outstanding Scholar Awards: First Place – Frank van de Veerdonk, Second Place – Swaidani Shadi, Third Place – Jamie Flammer, Fourth Place – Christoph Menzel
Post-Doctoral Investigator Award: First Place – Julie Ribot, Second Place – Tracy Putoczki, Third Place – Annalisa Camporeale, Fourth Place – Tilmann Buerckstuemmer
Young Investigator Award: First Place – Tao Lu, second Place – Bruno Silva-Santos, Third Place – Yasuo Yoshioka

3:30 – 4:00 PM  Introduction of ICS Lifetime Achievement Award: John Sims
ICS – Lifetime Award Lecture, Nancy Ruddle, Yale University School of Medicine, New Haven, CT, USA - (PP2-099) Lymphotoxin: From Inflammation to Lymphoid Organs and Back

4:00 – 4:30 PM  Introduction of ISICR – Milstein Award Lecture I: Eleanor Fish
ISICR Milstein Award Lecture: Glen N. Barber Affiliation TBA – Innate Immune Signaling Pathways that Regulate Type I Interferon Production

4:30 – 5:00 PM  Introduction of ISICR – Milstein Award Lecture II: Michael Tovey
ISICR Milstein Award Lecture, Peter Staeheli, University of Freiburg, Freiburg, DE – Role of IFN and Mx genes in Influenza Virus Defense

5:00 – 5:30 PM  Introduction of SLB Bonazinga Award: William Nauseef
SLB – Bonazinga Award Lecture, Peter Ward, University of Michigan Medical School, Ann Arbor, MI, USA – Molecular Determinants of Sepsis

4:30 PM – 8:30 PM  Exhibits – Pavilion 4

5:30 PM – 7:30 PM  Joint Plenary Session 1: Opening Keynote Lectures - Auditorium 1
Chairs: Scott Durum and Luis Montaner

5:30 – 6:10 PM  (PL1-1) Requirement For Mature T Cells, Type I Interferon and STAT1 in Negative T Cell Selection Michael David, UCSD, CA, USA

6:10 – 6:50 PM  (PL1-2) Tracking Cytokine Expression in vivo: Getting to the Root of the Matter Richard Locksley, UCSF, CA, USA

6:50 – 7:30 PM  (PL1-3) Interchromosomal Cytokine Gene Expression Charalampos G. Spilianakism, Institute of Molecular Biology and Biotechnology, GR

7:30 PM – 8:30 PM  Opening Reception - Pavilion 4
Monday, October 19th

7:30 AM – 5:00 PM  
Registration – Ground Floor Foyer

8:30 AM – 6:30 PM  
Exhibits – Pavilion 4

8:00 AM – 9:30 AM  
Joint Plenary Session 2: Pattern Recognition Receptors & Inflammation - Auditorium 1  
Sponsored by PBL Interferon Source

8:00 – 8:30 AM  
(PL2-1) Zc3h12a, a Negative Regulator in the TLR Response  
Shizuo Akira, Osaka University, Osaka, Japan

8:30 – 9:00 AM  
(PL2-2) Activation of an Antiviral Program through the Cytoplasmic Recognition of Non-Self RNA Patterns by RLR  
Takashi Fujita, Kyoto University, Kyoto, JP

9:00 – 9:30 AM  
(PL2-3) The Inflammasome  
Jurg Tschopp, Universite de Lausanne, Epalinges, CH

9:30 AM – 10:00 AM  
Coffee Break - Pavilion 4  
Sponsored by Invitrogen

10:00 AM – 12:00 PM  
Concurrent Basic Science Symposia 1: Immunoregulation I - Auditorium 1  
Chairs: Richard Locksley and Rachel Caspi

10:00 – 10:30 AM  
(CBSS1-1) IL-35 and Regulatory T Cell Function  
Dario Vignali, St. Jude’s Children’s Research Hospital, Memphis, TN, USA

10:30 – 11:00 AM  
Modulating Vaccine Responses with Innate Immunity  
Bali Pulendran, Emory Vaccine Center, Atlanta, GA, USA

11:00 – 11:30 AM  
(CBSS1-3) The Transcription Factor XBP1 Regulates Hepatic Lipogenesis, Immunity and Inflammation  
Laurie Glimcher, Harvard School of Public Health, Boston, MA, USA

Selected Talks

11:30 – 11:45 AM  
(CBSS1-4) A Critical Function of TGF-beta in the Generation of Adaptive and Natural CD4+Foxp3+ Regulatory T Cells  
Wanjun Chen, NIDCR/NIH, Bethesda, MD, USA

11:45 – 12:00 PM  
(CBSS1-5) Dual Function for a Vision-Related Molecule: Retinoic Acid in the Eye May Contribute to Ocular Immune Privilege by Inducing T Regulatory Cells  
Rachel R Caspi, NIH, Bethesda, MD, USA

10:00 AM – 12:00 PM  
Concurrent Basic Science Symposia 2: Inflammation and Cancer - Auditorium 2  
Chairs: Thomas Decker and Giorgio Trinchieri  
Sponsored by Meso Scale Discovery

10:00 – 10:30 AM  
Inflammation as an Inducer of Tumor-Induced Immune Suppression  
Suzanne Ostrand-Rosenberg, University of Maryland, Baltimore, MD, USA

10:30 – 11:00 AM  
(CBSS2-2) Protumor Immunity and Breast Cancer Development  
Lisa Coussens, UCSF, CA, USA

Selected Talks

11:00 – 11:15 AM  
(CBSS2-3) GRIM-19: A Novel Growth Regulator that Inhibits STAT3 and Beyond  
Dhan V. Kalvakolanu, University of Maryland School of Medicine, Baltimore, MD, USA
11:15 – 11:30 AM  (CBSS2-4) IL-11 Mediated STAT3 Activation in Inflammation and Cancer  Tracy Putoczki
(Award Recipient), Ludwig Institute for Cancer Research, Melbourne, AU

11:30 – 11:45 AM  (CBSS2-5) Origin, Phenotype and Function of Monocyte/Macrophage Subsets in Distinct Mammary Tumor Microenvironments  Jo A. Van Ginderachter, VIB-Vrije Universiteit Brussel, Brussels, BE

11:45 – 12:00 PM  (CBSS2-6) Interferon-Alpha Boosts Anti-Tumor Immunity Through Effects on T Cells and Dendritic Cells and Amplifies the Clinical Efficacy of Regulatory T Cell Depletion  Tyler J. Curiel, CTRC, San Antonio, TX, USA

10:00 AM – 12:00 PM  Concurrent Immunopathogenesis Symposia 1: Immunopathogenesis I - Pavilion 5 A&B
Chairs: Nancy Reich and Michael Parkhouse

10:00 – 10:40 AM  (CIS1-1) Viral Pathogenesis and Interactions with Toll-Like Receptors: HIV  Maureen M. Goodenow, University of Florida College of Medicine, Gainesville, FL, USA

10:40 – 11:20 AM  Viral pathogenesis and interactions with Toll-like Receptors: CMV  Mariapia Degli-Esposti, Lions Institute Centre for Experimental Immunology, CITY, AU

11:20 – 12:00 PM  (CIS1-3) TLR Recognition of Self Nucleic Acids Hampers Glucocorticoids Anti-Inflammatory Activity in Lupus  Franck Barrat, Dynavax Technology Corporation, Berkeley, CA, USA

12:00 PM – 1:30 PM  Lunch on your own

1:30 PM – 3:00 PM  Joint Plenary Session 3: Anti-Tumor Immunity - Auditorium 1
Chairs: Eleanor Fish and Ana Costa-Pereira

1:30 – 2:00 PM  (PL3-1) Role of Myeloid Cells and Inflammation in Cancer Progression and Metastasis  Michael Karin, UCSD, La Jolla, CA, USA

2:00 – 2:30 PM  Innate and Adaptive Inflammation in Prostate Cancer  Charles (Chuck) Drake, John Hopkins University, MD, USA

2:30 – 3:00 PM  Late Breaking Abstract: Detection and Immune Correlates of an Infectious Retrovirus, XMRV, in Blood Cells of Patients with Chronic Fatigue Syndrome and Cancer  Judy Mikovits, University of Nevada, Reno, NV, USA

3:00 PM – 3:30 PM  Coffee Break - Pavilion 4
Sponsored by Amgen

3:30 PM – 6:00 PM  Concurrent Basic Science Symposia 3: Gene Activation - Auditorium 1
Chairs: Tom Hamilton and Ana Gamero

3:30 – 4:00 PM  (CBSS3-1) IKK/NK-kappaB Signaling in Chronic Inflammation  Manolis Pasparakis, University of Cologne, Cologne, DE

4:00 – 4:30 PM  Transcriptional and Epigenetic Regulation of Helper T Cell Differentiation  John O'Shea, NIAMS/NIH, MD, USA

4:30 – 5:00 PM  New Mechanisms in the Interferon-Gamma Signaling Network  Rod Bremner, University of Toronto, Toronto, CA

Selected Talks:
5:00 – 5:15 PM  (CBSS3-4) Inhibition of Dynamin-Dependent Endocytosis Interferes with Type III IFN Expression in Bacteria-Infected Human Dendritic Cells  Taija E. Pietilä, National Institute for Health and Welfare, Helsinki, FI

5:15 – 5:30 PM  (CBSS3-5) Regulation of c-maf by IL-2  Susan John, Kings College London, London, UK

5:30 – 5:45 PM  (CBSS3-6) Single-Stranded RNA Viruses Inhibit P53 Transcriptional Activity by Post Translational Activation of ΔNP63  Christophe Lallemand, CNRS, Paris, FR

5:45 – 6:00 PM  (CBSS3-7) Interferon Signaling is Activated in Response to DNA Damage  Nancy Reich, Stony Brook University, Stony Brook, NY, USA

3:30 PM – 6:00 PM  Concurrent Immunopathogenesis Symposia 2: Immunopathogenesis II  - Auditorium 2
Chairs: Michele Somes Swanson and Lee-Ann H. Allen
Sponsored by Celgene

3:30 – 4:00 PM  Immune Responses in Experimental Human Malaria Infections  Robert W. Sauerwein, NCLMS-Medical Microbiology, Nijmegen, NL

4:00 – 4:30 PM  (CIS2-2) Dendritic Cell-Derived Notch Ligand, Delta-Like 4, Regulates the Immune Environment via TLR9 during Mycobacterial Challenge  Steven L. Kunkel, University of Michigan Medical School, Ann Arbor, MI, USA

Selected Talks:

4:30 – 4:45 PM  (CIS2-3) p53 Regulates TLR3 Expression and Function in Human Epithelial Cells  Manabu Taura, Graduate School of Pharmaceutical Sciences, Kumamoto University, Kumamoto, JP

4:45 – 5:00 PM  (CIS2-4) The Anti-Inflammatory Cytokine IL-10 Inhibits miR-155 in Response to Toll-like Receptor Signaling  Claire E. McCoy, Trinity College Dublin, Dublin, IE

5:00 – 5:15 PM  (CIS2-5) Activation of NK Cells in vivo Following Leishmania Infection Requires Myeloid Dendritic Cells, TLR9 and a Unique Set of Cytokines  Ulrike Schleicher, University Hospital Erlangen, Erlangen, DE

5:15 – 5:30 PM  (CIS2-6) A Medium-Throughout, Microplate-Based ex vivo Model for Measuring Intramacrophage Growth of Mycobacterium Tuberculosis  Daniel Eklund (SLB Travel Award Recipient), Linköping University, Linköping, SE

5:30 – 5:45 PM  (CIS2-7) NLRP3 Inflammasome in Malaria: Role of Hemozoin-Induced Signaling on Inflammasome Activation  Marina Tiemi Shio, McGill University, Montreal, CA

5:45 – 6:00 PM  (CIS2-8) Subversion of Human CD4+CD25+ Regulatory T Cells to IL-17-Producing T Cells by an Inflammatory Milieu  Behdad Afzali, Kings College London, London, UK

3:30pm-6:00pm  Concurrent Immunopathogenesis Symposia 3: Pathogen Manipulation of Cytokine Responses  - Pavilion 5 A&B
Chairs: Eleanor Fish and Christopher Karp

3:30 – 4:00 PM  (CIS3-1) The IL-6/12 Family in Resistance to Infection  Chris Hunter, University of Pennsylvania, Philadelphia, PA, USA

4:00 – 4:30 PM  (CIS3-2) Virus Manipulation of the Interferon Response  Steve Goodbourn, St. Georges’s University, London, UK
Selected Talks

4:30 – 4:45 PM  
(CIS3-3) **Inhibition of Type I Interferon Transcription by IRF3/7 Sumoylation** Keiko Ozato, NICHD, NIH, Bethesda, MD, USA

4:45 – 5:00 PM  
(CIS3-4) **Interferon and Influenza Viruses: The Yin and Yang of Survival** Eleanor N. Fish, Toronto General Research Institute, Toronto, CA

5:00 – 5:15 PM  
(CIS3-5) **Microbial Immune Evasion Through Exploitation of Macrophage Pattern-Recognition Receptors** George Hajishengallis, University of Louisville, Louisville, KY, USA

5:15 – 5:30 PM  
(CIS3-6) **A Novel Function of the Crohn’s Disease–Associated NOD2 Mutant 1007fs in the Regulation of Human IL10 Gene Transcription** Xiaojing Ma, Weill Medical College of Cornell University, New York, NY, USA

5:30 – 5:45 PM  
(CIS3-7) **V Protein-Mediated Block of MX Transcription is Essential for Morbillivirus Virulence** Nicholas Svitek, INRS-Institut Armand-Frappier, Quebec, CA

5:45 – 6:00 PM  
(CIS3-8) **C1q Enhances Phagocytosis of Mycobacterium Avium through a Pertussis Toxin Sensitive Pathway** Suzanne S. Bohlson, Indiana University School of Medicine, South Bend, IN, USA

6:00 PM – 8:30 PM  
**Focus Workshop: A Spotlight on: Interferon-lambda (IL-29)** – Pavilion 5 A&B
Chairs: Raymond Donnelly and Eleanor Ramos
Sponsored by Bristol Myers Squibb

6:00 – 6:20 PM  
**Introduction and Brief Overview of IFN-lambda/IL-29**
Raymond Donnelly, Center for Drug Evaluation & Research, FDA, Bethesda, MD, USA

6:20 – 6:45 PM  
**IFN-lambda is Functionally an Interferon but Structurally More Related to the IL-10 Family**
Rune Hartmann, University of Aarhus, Aarhus, Denmark

6:45 – 7:10 PM  
**What Have He Learned From the IL-28R Knock-Out Mouse?**
Markus Mordstein and Peter Staeheli (Award Recipient), University of Freiburg, Freiburg, Germany

7:10 – 7:35 PM  
**Expression and Function of Type III IFNs During Viral Infection in vitro and in vivo**
Søren Paludan, University of Aarhus, Aarhus, DK

7:35 – 8:00 PM  
**Mechanisms of IFN-lambda Antiviral Activity Against HBV and HCV**
Michael Robek, Yale University School of Medicine, New Haven, CT, USA

8:00 – 8:30 PM  
**Preclinical and Clinical Development of Pegylated-IFN-lambda**
Eleanor Ramos, Zymogenetics, Inc. Seattle, WA, USA

7:30 PM-10:00 PM  
**Student/Post-Doc Mixer – Trindade**
Sponsored by The Society for Leukocyte Biology (SLB)
### Tuesday, October 20th

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<th>Time</th>
<th>Event</th>
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<td>8:00 AM – 5:00 PM</td>
<td>Registration – Ground Floor Foyer</td>
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<tr>
<td>8:30 AM – 6:30 PM</td>
<td>Exhibits – Pavilion 4</td>
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<td>8:00 AM – 9:30 AM</td>
<td>Joint Plenary Session 4: <strong>New T-helper Subsets</strong> - Auditorium 1</td>
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<td>Chairs: Warren Leonard and Elizabeth J. Kovacs</td>
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<td><strong>Sponsored by Biogen Idec, Inc.</strong></td>
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<td>8:00 – 8:30 AM</td>
<td><em>(PL4-1)</em> Role of Microbiota and Transcription Factors in Control of Th17 Cell Differentiation</td>
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<td>Dan Littman, NYU School of Medicine, New York, NY, USA</td>
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<td>8:30 – 9:00 AM</td>
<td>Control of Immune-Mediated Inflammation by Regulatory T Cells</td>
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<td>Sasha Rudensky, University of Washington School of Medicine Immunology, WA, USA</td>
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<td>9:00 – 9:30 AM</td>
<td>IL-10 Producing Th1 Cells</td>
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<td>Anne O’Garra, The National Institute for Medical Research, London, UK</td>
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<td>9:30 AM – 10:00 AM</td>
<td>Coffee Break - Pavilion 4</td>
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<td>10:00 AM – 12:00 PM</td>
<td>Concurrent Basic Science Symposia 4: <strong>Signaling Session I</strong> - Auditorium 1</td>
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<td>Chairs: Martha Cathcart and John Schrader</td>
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<td>10:00 – 10:30 AM</td>
<td><em>(CBSS4-1)</em> Structural and Functional Analyses of Protein Complexes in Immune and Inflammatory Pathways</td>
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<td>10:30 – 11:00 AM</td>
<td><em>(CBSS4-2)</em> Transcriptional Control of Dendritic Cell Development and Homeostasis</td>
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<td>Selected Talks</td>
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<tr>
<td>11:00 – 11:15 AM</td>
<td><em>(CBSS4-3)</em> Essential Regulatory Role of NOX2 in RIG-I-Mediated Innate Immune Responses</td>
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<td>11:15 – 11:30 AM</td>
<td><em>(CBSS4-4)</em> Regulation of NFkB by NSD1/FBXL11-Dependent Reversible Lysine Methylation of p65</td>
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<td>11:30 – 11:45 AM</td>
<td><em>(CBSS4-5)</em> TRAF3 Recruitment to Sec16A and p115 Reveals a New Role for the ER-TO-GOLGI Transport Compartments in Innate Immunity</td>
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<td>11:45 – 12:00 PM</td>
<td><em>(CBSS4-6)</em> Tank is a Negative Regulator of TLR Signaling and Critical for Preventing Autoimmune Nephritis</td>
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<td>10:00 AM – 12:05 PM</td>
<td>Concurrent Special Symposia 1: <strong>IFN in the Clinic: Immunotherapy of Multiple Sclerosis</strong> - Auditorium 2</td>
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<td>Chairs: Michael Tovey and John Hiscott</td>
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<td><strong>Sponsored by Bayer Schering Pharma AG add others</strong></td>
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<td>10:00 – 10:25 AM</td>
<td>Role of Interferons in the Pathogenesis of Autoimmune Disease</td>
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<td>10:25 – 10:50 AM</td>
<td><em>(CSS1-2)</em> Pharmacokinetic, Pharmacodynamic, and Safety Profiles of Pegylated Interferon Beta-1A in Healthy Volunteers: Results from Two Phase 1 Clinical Studies</td>
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10:50 – 11:15 AM (CSS1-3) **Clinical Significance of Antibodies to Interferon beta Therapy in Patients with Relapsing-Remitting Multiple Sclerosis** Klaus Bendtzen, **Rigshospitalet University Hospital, Copenhagen, DK**

11:15 – 11:40 AM (CSS1-4) **Translational Approaches and Patient Profiling to Identify Relevant Biomarkers of Interferon beta Activity in MS** Ed Croze, **Bayer HealthCare Pharmaceuticals, Inc., Richmond, CA, USA**

11:40 – 12:05 PM (CSS1-5) **Natalizumab Therapy of MS** Michael Hutchinson, **St Vincent’s University Hospital, Dublin, IE**

**10:00AM – 12:00 PM** Concurrent Special Symposia 2: **Recent Advances** - **Pavilion 5 A&B**

**Chairs:** Howard Young and **TBA**

**Selected Talks**

10:00 – 10:15 AM (CSS2-1) **Thymic CD70-CD27 Signals Promote the Differentiation of ab and gd T Cell Subsets** Julie C. Ribot (Award Recipient), **Instituto de Medicina Molecular, Lisbon, PT**

10:15 – 10:30 AM (CSS2-2) **Characterization of a New Population of CD4+ Innate Spleen Cells that Produce IL-22 During Inflammatory Processes** Laure Dumoutier, **Universite Catholique de Louvain, Brussels, BE**

10:30 – 10:45 AM (CSS2-3) **Caspase-8 Regulates Cellular Response to Pattern Recognition Receptors and Prevents Spontaneous Triggering of Chronic Inflammation by their Endogenous Activators** David Wallach, **Weizmann Institute of Science, Rehovot, IL**

10:45 – 11:00 AM (CSS2-4) **TGF-β1 Signals TIAF1 Self-Association, Amyloid Superinduction and Apoptosis** Nan-Shan Chang, **National Cheng Kung University Medical College, Tainan, TW**

11:00 – 11:15 AM (CSS2-5) **Genetic Variants and Disease-Associated Factors Contribute to IRF-5 Expression in Primary Blood Cells of SLE Patients** Betsy J. Barnes, **University of Medicine and Dentistry of New Jersey, Newark, NJ, USA**

11:15 – 11:30 AM (CSS2-6) **Acute T Cell Leukemia: An in vivo Struggle Between HTLV-1-Production and Type 1 Interferon Production** Francis Ruscetti, **NCI Laboratory of Experimental Immunology, Frederick, MD, USA**

11:30 – 11:45 AM (CSS2-7) **T Cell Receptor Agonist and Tumor Biomarkers For Gamma-Delta T-Cell-Based Immunotherapy of Lymphomas and Leukemias** Bruno Silva-Santos (Award Recipient), **Instituto de Medicina Molecular, Lisbon, PT**

11:45 - 12:00 PM (CSS2-8) **Intracellular Inhibitors of Cysteine Cathepsins in Activated Macrophages** Natasa Kopitar-Jerala, **Institute Jozef Stefan, Ljubljana, SI**

**10:00 AM – 12:15 PM** Concurrent Basic Science Symposia 5: **Immunoregulation II** – **Pavilion 5 C**

**Chairs:** David Artis and Anne O’Garra

**Sponsored by PBL Interferon Source**

**Selected Talks**

10:00 – 10:15 AM (CBSS5-1) **Immediate Mediators of the Inflammatory Response are Poised for Rapid Gene Activation Through RNA Polymerase Stalling** Inez Rogatsky, **HSS and Weill Cornell, New York, NY, USA**

10:15 – 10:30 AM (CBSS5-2) **LOX-1 as Natural IFN-β Mediated Signal for Apoptotic Cell Uptake and Antigen Presentation in Dendritic Cells** Filippo Belardelli, **Istituto Superiore di Sanita, Rome, IT**
10:30 – 10:45 AM (CBSS5-3) Novel Gene Expression Patterns in IFN-GAMMA 3′Untranslated Region Au-Rich Element-Deleted Mice Deborah L. Hodge, NCI/CCR, Frederick, MD, USA

10:45 – 11:00 AM (CBSS5-4) The IL-27 P28 Subunit Binds CLF to form a Cytokine Regulating NK and T Cell Activities Requiring IL-6R for Signaling Sandrine Crabé, Université de Montréal, Montreal, CA

11:00 – 11:15 AM (CBSS5-5) The Type I Interferon (IFN) α Mediates a More Severe Neurological Disease in the Absence of the Canonical Signaling Molecule Interferon Regulatory Factor (IRF) 9 Markus J. Hofer, University of Marburg, Marburg, DE

11:15 – 11:30 AM (CBSS5-6) Unc93 Homolog B1 Regulates the Balance of Toll-Like Receptor 7 and Toll-Like Receptor 9 Responses Reciprocally in Dendritic Cells Ryutaro Fukui, The Institute of Medical Science, The University of Tokyo, Tokyo, JP

11:30 – 11:45 AM (CBSS5-7) Identification of a Novel Antigen Presenting Cell Population Modulating Anti-Influenza Type-2 Immunity Jae-Kwang Yoo, University of Toronto, Toronto, CA

11:45 – 12:00 PM (CBSS5-8) Antiviral Effects of Cytokines Thomas Lavoie, PBL Interferonsource, Piscataway, NJ, USA

12:00 – 12:15 PM (PP2-173) Act1: A Novel U-box E3 Ubiquitin Ligase for IL-17R-Mediated Signaling Caini Liu (Award Recipient), Cleveland Clinic, Cleveland, OH, USA

12:15 PM – 1:30 PM Lunch On Your Own

1:30 PM – 3:00 PM Concurrent Basic Science Symposia 6: Neutrophil Biology - Auditorium 1 Chair: Marco Cassatella and William Nauseef

1:30 – 2:00 PM (CBSS6-1) Neutrophils as Active Participants in Cross-Talks with Other Cells of the Immune System Marco A. Cassatella, University of Verona, Verona, IT

Selected Talks

2:00 – 2:15 PM (CBSS6-2) Inter-Kingdom Signalling: A Quorum-Sensing Molecule of Pseudomonas Aeruginosa Activates Human Polymorphonuclear Neutrophils (PMN) Gertrud Maria Hänsch, University of Heidelberg, Heidelberg, DE

2:15 – 2:30 PM (CBSS6-3) Functional Cooperation between Fc Gamma RIIa AND Fc Gamma RIIib on Human Neutrophils Louis Marois, Laval University, Québec, CA

2:30 – 2:45 PM (CBSS6-4) A Critical Role of Nitric Oxide in the Resolution of Inflammation Yoshiro Kobayashi, Toho University, Funabashi, JP

2:45 – 3:00 PM (CBSS6-5) Leishmania Promastigotes Induce the Formation of Neutrophil Extracellular Traps Albert Descoteaux, Institut Armand-Frappier, Laval, CA

1:30 PM – 3:00 PM Concurrent Basic Science Symposia 7: IFN-Stimulated Genes - Auditorium 2 Chairs: Moira K. B. Whyte and Ganes Sen

1:30 – 2:00 PM (CBSS7-1) Signaling Pathways Controlling mRNA Translation of Interferon Regulated Genes Leon C. Platanias, Northwestern University Medical School, Chicago, IL, USA

2:00 – 2:30 PM UBP43 and ISG15 in the Innate Immune Response Dong Zhang, The Scripps Research Institute, La Jolla, CA, USA
Selected Talks

2:30 – 2:45 PM  
(CBSS7-3) A Novel Small RNA Regulatory Mechanism Employed by Interferons for Regulating Growth  
Dhan V. Kalvakolanu, University of Maryland School of Medicine, Baltimore, MD, USA

2:45 – 3:00 PM  
(CBSS7-4) Cooperation of Stat and NFkB in the Assembly of a Transcription Competent Initiation Complex  
Thomas Decker, University of Vienna, Vienna, AT

1:30 PM – 3:00 PM  
Concurrent Clinical Symposia: Biological Therapeutics - Pavilion 5 A&B  
Chairs: Kathy Zoon and John Sims

1:30 – 2:00 PM  
(CCS1-1) Interferons and Interferon Antagonists in Disease and Clinical Applications  
Sergei V. Kotenko, New Jersey Medical School, Newark, NJ, USA

2:00 – 2:30 PM  
(CCS1-2) Where are we with Anti-Chemokine Therapies?  
Amanda Proudfoot, Merck Serono, Geneva, CH

2:30 – 3:00 PM  
Developing Safe and Effective Immunotherapy: Lessons from Anti-CD28 Trials (TGN1412)  
Sir Gordon Duff, University of Sheffield Molecular Medicine, London, UK

1:30 PM – 3:00 PM  
Concurrent Immunopathogenesis Symposia 4: Inflammation & Pathogenesis - Pavilion 5 C  
Chairs: Sanna M. Goyert and Amanda Proudfoot

1:30 – 2:00 PM  
(CIS4-1) Immune Modulation by Virus-Encoded Cytokine Binding Proteins  
Antonio Alcami, Centro de Biologia Molecular Severo Ochoa CSIC-UAM, Madrid, Spain

2:00 – 2:30 PM  
(CIS4-2) Molecular Pathogenesis of West Nile Virus Encephalitis  
Phil Murphy, NIH-LMI/NIAID, Bethesda, MD, USA

2:30 – 3:00 PM  
(CIS4-3) Dissecting "Alternative Macrophage Activation": The Role of L-Arginine Metabolism in Chronic Inflammation and Fibrosis  
Tom Wynn, NIAID-NIH, Bethesda, MD, USA

3:00 PM – 5:00 PM  
Poster Session I - Pavilion 4

7:30 PM – 10:30 PM  
Conference Banquet  
National Agronomy Pavilion – Bus service provided from hotels
### Wednesday, October 21st

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 AM – 2:30 PM</td>
<td>Registration – Ground Floor Foyer</td>
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<tr>
<td>8:30 AM – 2:30 PM</td>
<td>Exhibits – Pavilion 4</td>
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<tr>
<td>8:00 AM – 9:00 AM</td>
<td>Joint Plenary Session 5: The Macrophages in Health and Disease - Auditorium 1  &lt;br&gt; Chairs: David Levy and Alberto Matovani</td>
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<tr>
<td>8:00 – 8:30 AM</td>
<td>(PL5-1) The Macrophage’s Dual Role in Health and Disease Siamon Gordon, NCI, SAIC-Frederick, MD, USA</td>
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<tr>
<td>8:30 – 9:00 AM</td>
<td>(PL5-2) Learning Tolerance from Cancer: Lessons from Myeloid-Derived Suppressor Cells Vincenzo Bronte, Universita Degli Studi Di Padova, Padova, IT</td>
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<tr>
<td>9:00 AM – 9:30 AM</td>
<td>Coffee Break – Pavilion 4 &lt;br&gt; Sponsored by BD Biosciences</td>
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<tr>
<td>9:30 AM – 11:30 AM</td>
<td>Concurrent Immunopathogenesis Symposia 5: The Role of Tissue-Specific Macrophages in Chronic Disease Processes - Auditorium 1  &lt;br&gt; Chairs: Joe Oppenheim and Jill Suttles</td>
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<tr>
<td>9:30 – 10:00 AM</td>
<td>(CIS5-1) Mechanisms and Consequences of Macrophage Apoptosis and Efferocytosis in Atherosclerosis Ira Tabas, Columbia University, New York, NY, USA</td>
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<tr>
<td>10:00 – 10:30 AM</td>
<td>(CIS5-2) Regulation of Macrophage Activation and Function by PPARs Ajay Chawla, Stanford University, Stanford, CA, USA</td>
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<tr>
<td><strong>Selected Talks</strong></td>
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<tr>
<td>10:30 – 10:45 AM</td>
<td>(CIS5-3) Macrophage Effector Function in Anti-Filarial Nematode Immunity is Independent of Arginase 1, Relmα and YM-1 Stephen Jenkins, University of Edinburgh, Edinburgh, UK</td>
</tr>
<tr>
<td>10:45 – 11:00 AM</td>
<td>(CIS5-4) Stabilin-1 –Multifunctional Receptor Linking Endocytosis and Secretion in Macrophages Alexei Gratchev, University of Heidelberg, Mannheim, DE</td>
</tr>
<tr>
<td>11:00 – 11:15 AM</td>
<td>(CIS5-5) Expression of the Inhibitory CD200 Receptor is Associated with Alternative Macrophage Activation Jörg Hamann, Academic Medical Center, University of Amsterdam, Amsterdam, NL</td>
</tr>
<tr>
<td>11:15 – 11:30 AM</td>
<td>(CIS5-6) Control of RSV-Induced Lung Injury by Alternatively Activated macrophages is IL-4Ralpha-, TLR4-, and IFN-beta-dependent Jorge C. Blanco, Virion Systems Inc., Rockville, MD, USA</td>
</tr>
<tr>
<td>9:30 AM –11:30 AM</td>
<td>Concurrent Basic Science Symposia 8: Signaling Session II - Auditorium 2  &lt;br&gt; Chairs: Sara Gaffen and Rui Victorino</td>
</tr>
<tr>
<td>9:30 – 10:00 AM</td>
<td>(CBSS8-1) NLR Genes and Adaptive and Innate Immunity Jenny Ting, UNC CCBC, Chapel Hill, NC, USA</td>
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<tr>
<td>10:00 – 10:30 AM</td>
<td>(CBSS8-2) Signaling Through SUMO Ligases to Regulate Immune Responses Ke Shuai, Biological Chemistry-UCLA, Los Angeles, CA, USA</td>
</tr>
</tbody>
</table>

**Selected Talks**
10:30 – 10:45 AM (CBSS8-3) **Deregulated Activation of Cytokine Signaling by Interleukin-6 (IL-6) in the Pathogenesis of Emphysema** Saleela M Ruwanpura, Monash University, Clayton, AU

10:45 – 11:00 AM (CBSS8-4) **IL-22, a TH17 Cytokine, Induces a Systemic Acute Phase Response** Lynette A. Fouser, Wyeth Research, Cambridge, MA, USA

11:00 – 11:15 AM (CBSS8-5) **Interleukin-6 Induces Translocation of the Adapter Protein GAB1 by MAPK-Dependent Phosphorylation of GAB1 on SERINE 552** Fred Schaper, RWTH Aachen University, Aachen, DE

11:15 – 11:30 AM (CBSS8-6) **Role of Small RNAs Generated by RNASE L in Signaling Innate Immunity against Hepatitis C Virus** Robert H. Silverman, Cleveland Clinic, Cleveland, OH, USA

**9:30 AM – 11:30 AM** *Concurrent Immunopathogenesis Symposia 6: Immunopathogenesis III* - Pavilion 5 A&B

Chairs: Patricia Fitzgerald-Bocarsly and TBA

9:30 – 10:00 AM (CIS6-1) **HIV-1 Escape from Innate Immune Response** Domenico Mavilio, Istituto Clinico Humanitas, Milano, IT

10:00 – 10:30 AM (CIS6-2) **Tumor Suppressors in Antiviral Immunity** Cesar Munoz-Fontela, Mount Sinai, New York, NY, USA

10:30 – 11:00 AM **Transcriptional Regulation of CD8 T Cell Differentiation During Chronic Viral Infection** John Wherry, The Wistar Institute, Philadelphia, PA, USA

**Selected Talks**

11:00 – 11:15 AM (CIS6-4) **Alpha-1-Antitrypsin Inhibits Influenza in vitro, Reduces Influenza Disease in vivo, and Genetic Deficiency is a Risk Factor for Human Influenza Infection** K. Scott Beard, University of Colorado Denver, Denver, CO, USA

11:15 – 11:30 AM (CIS6-5) **Lethal Viral Infection Results from STAT1 but not STAT2 or IRF9 Deficiency in Mice and is Mediated by CD4+ T-Cells** Markus J. Hofer, University of Marburg, Marburg, DE

**11:30 AM – 12:30 PM** *Lunch On Your Own - Boxed Lunches Available for Purchase at the Bar located near Pavilion 4*

ISICR General Society Meeting – Auditorium 1

ICS General Society Meeting – Auditorium 2

SLB General Society Meeting – Pavilion 5 A&B

**12:30 PM – 2:30 PM** *Poster Session II - Pavilion 4*

**2:30 PM – 4:30 PM** *Concurrent Basic Science Symposia 9: Allergy and Mast Cells* - Auditorium 1

Chairs: Matthew Fenton and Keiko Ozato

2:30 – 3:00 PM (CBSS9-1) **Mechanisms of Human Eosinophil Cytokine Secretion** Peter Weller, Harvard University, Boston, MA, USA

3:00 – 3:30 PM (CBSS9-2) **New Facets in Mast Cell Activation** Silvia Bulfone-Paus, Research Center Borstel, Borstel, DE

**Selected Talks**
3:30 – 3:45 PM  
**CBSS9-3**  
S100A8 – An Oxidant Scavenger and Immune Modulator in Allergic Inflammation  
Carolyn L. Geczy, University NSW, Sydney, AU

3:45 – 4:00 PM  
**CBSS9-4**  
T Cell-Specific Act1 Deficiency Leads to Attenuated Cellular and Humoral Allergic Responses  
Swaidani Shadi (Award Recipient), Cleveland Clinic, Cleveland, OH, USA

4:00 – 4:15 PM  
**CBSS9-5**  
Mast Cell Degranulation Requires Activation of PI3K by PKCβ  
Romy Walser, University of Basel, Basel, CH

4:15 – 4:30 PM  
**CBSS9-6**  
The Antimicrobial Peptides Human beta-Defensins Mediate Secretion of Pruritogenic Factors in Human Mast Cells  
Francois Niyonsaba, Juntendo University School of Medicine, Tokyo, JP

**2:30 PM – 4:30 PM**  
Concurrent Immunopathogenesis Symposia 7: Sensing of Fungal & Parasitic Infection and Host Response - Auditorium 2  
Chairs: Michael Tovey and Christian Bogdan

2:30 – 3:00 PM  
**CIS7-1**  
Sensing Danger Signals and Pathogen-Associated Molecular Patterns Defines Binary Signaling Pathways in Mammalian Response to Fungi  
Luigina Romani, University of Perugia, Perugia, IT

3:00 – 3:30 PM  
Role of beta-glucan in anti-fungal immunity  
Gordon D. Brown, University of Aberdeen, Aberdeen, UK

**Selected Talks**

3:30 – 3:45 PM  
**CIS7-3**  
Vitamin A Derived Retinoic Acid Signaling Mediates Intestinal Immune Homeostasis and Immunity  
Jason A. Hall, National Institutes of Health/ U Penn Partnership, Bethesda, MD, USA

3:45 – 4:00 PM  
**CIS7-4**  
The Induction of IL-10 by Fungi in Dendritic Cells Depends on CREB Activation by the Coactivators CBP and TORC2 and Autocrine PGE2  
Mariano Sánchez Crespo, CSIC, Valladolid, ES

4:00 – 4:15 PM  
**CIS7-5**  
Th17/IL-17 Receptor Signaling and not Th1 Cells are Essential for Mucosal Host Defense Against Oral Candidiasis  
Sarah L. Gaffen, University of Pittsburgh, Pittsburgh, PA, USA

4:15 – 4:30 PM  
**CIS7-6**  
Origin, Phenotype and Function of Monocyte/Macrophage Subsets in Distinct Mammary Tumor Microenvironments  
Shinobu Saijo, The University of Tokyo, The Institute of Medical Science, Tokyo, JP

**2:30 PM – 4:30 PM**  
Concurrent Immunopathogenesis Symposia 8: Chronic Inflammatory Disease –  
Pavilion 5 A&B  
Chairs: Sir Gordon Duff and Otto Haller

2:30 – 3:00 PM  
Cytokines and Innate Immunity in Intestinal Inflammation  
Fabio Cominelli, University of Virginia, Richmond, VA, USA

3:00 – 3:30 PM  
**CIS8-2**  
Linking Inflammation to Cancer - A Novel Role for Stat3  
Matthias Ernst, Ludwig Institute for Cancer Research, Melbourne, AU

3:30 – 4:00 PM  
Regulation of Immunity and Inflammation in the Gut  
David Artis, University of Pennsylvania, Philadelphia, PA, USA

4:00 – 4:30 PM  
Regulation of Macrophage Signaling and Function During Chronic Inflammation  
Lionel Ivashkiv, Cornell University, New York, NY, USA
Joint Plenary Session 6: Closing Keynote Lectures - Auditorium 1

Chairs: Luis Montaner and David Wallach

4:45 – 5:15 PM  
Violation of the Sanctity of the Cytosolic Compartment Provokes the Wrath of the Inflammasome  
Vishva Dixit, Genentech, South San Francisco, CA, USA

5:15 – 5:45 PM  
(PL6-2) How Specificity for Self-Peptides Shapes the Development and Function of Regulatory T Cells  
Andrew Caton, The Wistar Institute, Philadelphia, PA, USA

5:45 – 6:15 PM  
T Lymphocyte Trafficking in Immunity and Autoimmunity  
Federica Sallusto, Institute for Research in Biomedicine, Switzerland