

**PROGRAM**  
Annual Meeting of The  
Society for Leukocyte Biology &  
The International Endotoxin and Innate Immunity Society  
“The Three Rs of Immunity: Recognition, Response and Resolution”

October 7-9, 2010  
Fairmont Vancouver  
Vancouver, BC, Canada

**Organizers:** William M. Nauseef, Neil Reiner (SLB) & Alan Cross, Steven Opal (IEIIS)

(Note: First number denotes abstract number where applicable)  
\* denotes sponsorship opportunity

**Thursday, October 7th**

**8:00 am - 6:00 pm Registration**

(LOCATION)

**8:00 - 11:00 am Aging and Immunity**

**Satellite Symposium**

Session Chair: *Liz Kovacs*

(LOCATION)

**12:00-7:30 pm Exhibits**

(LOCATION)

**12:00-2:00 pm Plenary I \***

**From Bench to Bedside**

(LOCATION)

Session Chair: TBA

**12:00 pm Innate Immunity and the Pathogenesis of Shock**

*Steven Opal*, Brown University, RI

**12:30 pm A Genomics Approach to the Identification of Novel Mediators in a Clinical Setting**

*Joe Garcia*, University of Chicago Medical Center, IL

**1:00 pm The Innate and Adaptive Immune Response to Shock/Trauma**

*Stephen Lowry*, Robert Wood Johnson Medical School, NJ

**1:30 pm Have the Lessons of the Laboratory Provided the Proper Guidance to Our Understanding of Human Sepsis: A Critical Appraisal of What We Have Learned About the Innate Immune Response**

*Robert Munford*, NIAID, NIH, MD

**2:00 - 2:15 pm**

**Coffee Break\***

(LOCATION)

**2:15 - 5:00 pm**

**SLB and IEIIS Student Awards**

(LOCATION)

Session Chair: TBA

**2:15 pm Introductions**

*TBA, AFFL*

SLB Junior Faculty Presidential Award Finalists

**2:30 pm TITLE TBA**

*TBA, AFFL*

**2:45 pm TITLE TBA**

*TBA, AFFL*

**3:00 pm TITLE TBA**

*TBA, AFFL*

SLB Student/Post-Doc Presidential Award Finalists

**3:15 pm TITLE TBA**

*TBA, AFFL*

**3:30 pm TITLE TBA**

*TBA, AFFL*

**3:45 pm** TITLE TBA  
*TBA, AFFL*

IEIIS Young Investigator Award Finalists

**4:00 pm** TITLE TBA  
*TBA, AFFL*

**4:15 pm** TITLE TBA  
*TBA, AFFL*

**4:30 pm** TITLE TBA  
*TBA, AFFL*

**4:45 pm** TITLE TBA  
*TBA, AFFL*

**5:00 - 6:30 pm** SLB Senior Level Awards

**5:00 pm** Marie T. Bonazinga Award  
TITLE TBA  
*TBA, AFFL*

**5:30 pm** GJ Thorbecke Award  
TITLE TBA  
*TBA, AFFL*

**6:00 pm** Dolph Adams Award  
TITLE TBA  
*TBA, AFFL*

**6:30 - 7:30 pm** Opening Reception\*  
(LOCATION)

**7:30 - 8:30 pm** Plenary II \*

**Keynote Lecture**

(LOCATION)

Session Chair: TBA

**Lessons in Innate Immunity from Patients with Rare Clinical Disorders**

*Steven Holland*, NIH, NIAID, MD

**9:00 - 11:00 pm** Student Mixer\*  
(LOCATION)

**Friday, October 8th**

**8:00 am-5:00pm** Registration  
(LOCATION)

**8:00 am-5:30 pm** Exhibits  
(LOCATION)

**8:30 am-9:00 am** SLB Member Business Meeting  
(LOCATION)

**8:30 am-9:00 am** IEIIS Member Business Meeting  
(LOCATION)

**9:00-11:00 am** Plenary III\*  
**Recognition**  
(LOCATION)  
Session Chair: TBA

**9:00 am** Cellular Responsiveness to LPS, MD2 and TLR4  
*Jerrold Weiss*, University of Iowa, IA

**9:30 am** Endogenous Ligands Versus Microbially-Derived Ligands: DAMPs and PAMPs  
*Timothy Billiar*, University of Pittsburgh, PA

**10:00 am** Scavenger and Mannose Receptors, Dectin-1 (C-Type Lectins)  
*Siamon Gordon*, University of Oxford, UK

**10:30 am** NALPs and Innate Immune Recognition of Infectious Agents  
*Jenny Ting*, University of North Carolina, NC

**11:00 am - 1:00 pm** Poster Session I  
**Lunch\***  
(LOCATION)

*Please join us for lunch while you browse the first set of poster presentations.*

**1:00-3:00 pm** Concurrent Sessions

**Concurrent 1: Purinergic Receptors and Immunity \***  
(LOCATION)  
Session Chair: *Ofer Levy*

**1:00 pm** The Distinct Adenosine System of Human Newborns Polarizes Neonatal Innate Immune Responses  
*Ofer Levy*, Children's Hospital Boston, MA

**1:30 pm** Role of CD39 in Colitis/Inflammatory Bowel Disease  
*Simon Robson*, Harvard Medical School, MA

**2:00 pm Adenosine Receptors in Wound Healing**  
*Bruce Cronstein, NYU Lagone Medical Center, NY*

**2:30 pm Title TBA**  
*Selected Talk Presenter TBA*

**2:45 pm Title TBA**  
*Selected Talk Presenter TBA*

## **Concurrent 2: Soluble Pattern Recognition Receptors \***

(LOCATION)

Session Chair: *Jens Jensenius*

**1:00 pm Ficolins and Host Defense**  
*Jens Jensenius, Aarhus University, Denmark*

**1:30 pm SP-D, a Collagenous Pattern Recognition Molecule: Structure, Biology and Clinical Implications**  
*Jo Rae Wright, Duke University Medical Center, NC*

**2:00 pm Mannose Binding Lectin: Genetics, Deficiency, and Disease**  
*Alan Ezekowitz, Merck Research Laboratories, NJ*

**2:30 pm Title TBA**  
*Selected Talk Presenter TBA*

**2:45 pm Title TBA**  
*Selected Talk Presenter TBA*

## **Concurrent 3: Regulatory Myeloid Cells\***

(LOCATION)

Session Chair: *Dmitry Gaborilovich*

**1:00 pm Regulation of Myeloid-Derived Suppressor Cells, Expansion, and Function**  
*Dmitry Gaborilovich, Moffitt Cancer Center, FL*

**1:30 pm Myeloid-Derived Suppressor Cells in Sepsis**  
*Lyle Moldawer, University of Florida, FL*

**2:00 pm Myeloid-Derived Suppressor Cells in Influenza Infection**  
*Vincenzo Cerundolo, University of Oxford, UK*

**2:30 pm Title TBA**  
*Selected Talk Presenter TBA*

**2:45 pm Title TBA**  
*Selected Talk Presenter TBA*

**3:00-3:30 pm Networking Coffee Break\***  
(LOCATION)

**3:30-5:30 pm Concurrent Sessions**

## **Concurrent 4: Role of Exosomes in Immunity \***

(LOCATION)

Session Chair: *Clotilde Thery*

**3:30 pm Insights into the Molecular Mechanisms of Exosome Secretion**  
*Clotilde Thery, Institut National de la Santé et de la Recherche Médicale, France*

**4:00 pm Exosome Secretion During Dendritic Cell - T Cell Interactions**  
*Marca Wauben, Utrecht University, The Netherlands*

**4:30 pm Interaction between Dendritic Cells and Exosomes during Allorecognition in Transplantation**  
*Adrian Morelli, University of Pittsburgh, PA*

**5:00 pm Title TBA**  
*Selected Talk Presenter TBA*

**5:15 pm Title TBA**  
*Selected Talk Presenter TBA*

## **Concurrent 5: Leukocytic Phagolysosomes \***

(LOCATION)

Session Chair: *Guoshun Wang*

**3:30 pm Chloride Transport into the Neutrophil Phagosome**  
*Guoshun Wang, LSUHSC, LA*

**4:00 pm Phospholipid Metabolism and Maturation of Phagosomes**  
*Sergio Grinstein, The Hospital for Sick Childrens, Toronto, CA*

**4:30 pm Faulty Phagolysosome Maturation in the Pathogenesis of Tuberculosis**  
*David Russell, Cornell University College of Veterinary Medicine, NY*

**5:00 pm** Organization of the NADPH Oxidase on the Phagosomal Membrane: Critical Role of p40phox  
*Mary Dinauer*, Indiana University, IN

**8:30 am** The Epigenetic Control of Innate Immune Responses  
*Charles McCall*, Wake Forest University, NC

**9:00 am** Function and Regulation of Human T Regulatory and Th17 Cells  
*Megan Levings*, University of British Columbia, BC

**9:30 am** The Role of Fever and Heat Shock in Shaping the Innate Immune Response  
*Jeff Hasday*, University of Maryland Medical Center, MD

## Concurrent 6: TH17 Axis and Dendritic Cells \*

(LOCATION)

Session Chair: *TBA*

**3:30 pm** Studying Intestinal Mononuclear Phagocytes in Tissue and Microflora Context  
*Steffen Jung*, The Weizmann Institute of Science, Israel

**4:00 pm** Role of IL-17A in Inflammatory Immune Responses and Host Defense Against Pathogens  
*Yoichiro Iwakura*, University of Tokyo, Japan

**4:30 pm** Interactions between Gastrointestinal Bacteria and the TH17-Mediated Inflammatory Response  
*Kiyoshi Takeda*, Osaka University, Japan

**5:00 pm** Title TBA  
Selected Talk Presenter TBA

**5:15 pm** Title TBA  
Selected Talk Presenter TBA

## 6:30-9:00 pm Conference Banquet

**Saturday, October 9th**

**7:30 am-8:30 am** Meet the Speaker Breakfast – RSVP event  
(LOCATION)

Note: This is not an open event, you must have a confirmed RSVP to attend and space is limited

**8:00 am-5:00pm** Registration  
(LOCATION)

**8:00 am-4:30 pm** Exhibits  
(LOCATION)

**8:30-10:00 am** Plenary IV\*  
**Response**  
(LOCATION)  
Session Chair: *TBA*

**10:00 – 10:30 am** Networking Coffee Break\*  
(LOCATION)

**10:30 am - 12:00 pm** Plenary V\*  
**Resolution**  
(LOCATION)  
Session Chair: *Stefanie Vogel*

**10:30 am** Autophagy as a Component of the Innate Immune System  
*Michelle Swanson*, University of Michigan, MI

**11:00 am** MicroRNAs in the Control of Innate Immunity  
*Edward Abraham*, University of Alabama at Birmingham, AL

**11:30 am** Anti-Inflammatory Lipids: Resolvins, Lipoxins and Maresins  
*Charlie Serhan*, Harvard University, MA

**12:00 – 2:00 pm** Poster Session II Lunch\*  
(LOCATION)

Please join us for lunch while you browse the first set of poster presentations.

**2:00-4:00 pm** Concurrent Sessions

**Concurrent 7: Role of Non-Conventional, Non-Myeloid Cells in Bridging Innate and Adaptive Immunity \***  
(LOCATION)  
Session Chair: *Tim Sellati*

**2:00 pm** Human iNKT Cells  
*Jenny Gumperz*, University of Wisconsin, WI

**2:30 pm** Crosstalk of Human Gamma Delta T cells and Monocytes in Bacterially-Induced Inflammation

*Matthias Eberl*, Cardiff University, Wales

**3:00 pm** The Role of NK Cells in Early Viral Infection

*Christine Biron*, Brown University, RI

**3:30 pm** Title TBA

*Selected Talk Presenter TBA*

**3:45 pm** Title TBA

*Selected Talk Presenter TBA*

**2:45 pm** The Interactions of the Inflammasome and Signosome in Viral Pathogenesis

*Thierry Calandra*, Centre Hospitalier Universitaire Vaudois, Switzerland

**3:15 pm** Title TBA

*Selected Talk Presenter TBA*

**3:30 pm** Title TBA

*Selected Talk Presenter TBA*

**3:45 pm** Title TBA

*Selected Talk Presenter TBA*

## Concurrent 8: Regulation of LPS Signaling\*

(LOCATION)

Session Chair: *Kensuke Miyake*

**2:00 pm** Regulation of LPS-Dependent Signaling

*Kensuke Miyake*, University of Tokyo, Japan

**2:30 pm** Novel Signaling Interactions between Proteinase-activated Receptor 2 (PAR2) and Toll-like Receptors (TLRs) *in vitro* and *in vivo*

*Stefanie Vogel*, University of Maryland Medical Center, MD

**3:00 pm** Immune Cell Responses to Endotoxin and Other Microbial Elements

*Shizuo Akira*, Osaka University, Japan

**3:30 pm** Title TBA

*Selected Talk Presenter TBA*

**3:45 pm** Title TBA

*Selected Talk Presenter TBA*

## Concurrent 9: The Inflammasome System \*

(LOCATION)

Session Chair: *Fayyaz Sutterwala*

**2:00 pm** The Inflammasome: Sensor of Infectious and Sterile Threats

*Fayyaz Sutterwala*, University of Iowa, IA

**2:15 pm** Nod1/Nod2 in Innate Immune Responses

*Dana Philpott*, University of Toronto, Canada

**4:00-4:30 pm**

**Networking Coffee Break\***

(LOCATION)

**4:30-6:30 pm**

**Concurrent Sessions**

## Concurrent 10: Host-Microbe Interactions \*

(LOCATION)

Session Chair: *Neil Reiner*

**4:30 pm** Virus Infections and the TLRs

*Robert Finberg*, UMass Medical School, MA

**5:00 pm** The TLRs and PRRs in the Recognition of Fungal Pathogens

*Stuart Levitz*, UMass Memorial Medical Center, MA

**5:30 pm** Paradoxical Role of Retinoic Acid on Protective Immunity

*Yasmin Belkaid*, NIH, NIAID, MD

**6:00 pm** Title TBA

*Selected Talk Presenter TBA*

**6:15 pm** Title TBA

*Selected Talk Presenter TBA*

## Concurrent 11: LPS Structure and Function \*

(LOCATION)

Session Co-Chairs: *Koichi Fukase* and *Russell Bishop*

**4:30 pm** Structure-Activity Relationships in Synthetic Endotoxins

*Yukari Fujimoto*, Osaka University, Japan

**5:00 pm** Title TBA

*Russell Bishop*, McMaster University, Ontario, Canada

**5:30 pm**    **Molecular Remodeling of Endotoxin in Pathogenic Bacteria**  
*Stephen Trent*, University of Texas at Austin, TX

**6:00 pm**    **Title TBA**  
*Selected Talk Presenter TBA*

**6:15 pm**    **Title TBA**  
*Selected Talk Presenter TBA*

**5:00 pm**    **Evolutionary Insights in the Innate Immune Response from the Purple Sea Urchin**  
*Jonathan Rast*, Sunnybrook Health Sciences Centre, Canada

**5:30 pm**    **Receptor Dependent Recognition of Bacterial Products**  
*Richard Ulevitch*, Scripps Research Institute, CA

**6:00 pm**    **The Evolution of the IL-1 Family Through the Ages**  
*Charles Dinarello*, University of Colorado, CO

## **Concurrent 12: The Phylogeny of Innate Immunity \***

(LOCATION)

Session Chair: *TBA*

**4:30 pm**    **Metchnikoff and Other Historical Milestones in the Understanding of Immunology**  
*Jean-Marc Cavillon*, Institut Pasteur, France

**POSTER PRESENTATIONS**  
**Annual Meeting of The**  
**Society for Leukocyte Biology &**  
**The International Endotoxin and Innate Immunity Society**

**Poster Session I**  
**Friday, October 8<sup>th</sup>**  
**11:00 am - 1:00 pm**

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**Poster Session II**  
**Saturday, October 9<sup>th</sup>**  
**12:00 - 2:00pm**

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