

## PROGRAM

### Joint Meeting of Society for Leukocyte Biology & International Endotoxin and Innate Immunity Society “Development of Innate Immunity”

◆  
October 23-25, 2014  
Salt Lake City Sheraton  
Salt Lake City, Utah

**Organizers:** Daniel Remick, *Boston University School of Medicine (SLB)* &  
Ofer Levy, *Boston Children’s Hospital and Harvard Medical School (IEIS)*

*Abstract numbers are indicated in the left margin. Poster board numbers are listed where applicable.*

#### Thursday, October 23rd

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

*Location: Canyons Lobby*

##### 8:00 - 11:00 am Society Council Meetings

*Location: SLB – Emigration; IEIS- City Creek*

##### 11:00 am - 12:00 pm Street Smarts of Science

*Location: Wildcat*

Senior SLB advisors will impart their knowledge of how to survive in academia in a session designed around the needs of graduate students. Those currently enrolled in graduate school, medical school, and combined degree programs, may need help navigating the waters. Join us in Salt Lake City to do just that!

##### 12:00 - 6:00 pm Exhibits

*Location: Canyons Lobby*

##### 12:00 - 12:15 pm President’s Welcome Ann Richmond, SLB, and Jerry Weiss, IEIS

*Location: The Canyons*

##### 12:15 - 2:15 pm Plenary I -Immune Phylogeny

Chair: Lyle Moldawer, University of Florida

*Location: The Canyons*

12:15 pm **Limitations and Advantages of  
Mammalian Models for Inflammation**

**Research**, Lyle Moldawer, University of Florida

12:45 pm **Zebrafish Models for the Study of Inflammation and Immunity**, Stephen Renshaw, University of Sheffield Medical School, United Kingdom

1:15 pm ***Drosophila melanogaster* as a Model System to Investigate Host-Pathogen Interactions**, Laurence Rahme, Harvard Medical School

1 1:45 pm **Comparative Genomics for the Identification of Novel Innate Immunity Regulators**, Scott Alper, National Jewish Health, University of Colorado Health Science Center

##### 2:15 - 2:30 pm Coffee Break

##### 2:30 - 4:15 pm SLB and IEIS Student Awards

*Location: The Canyons*

2:30 pm **Award Introductions**

##### SLB Junior Faculty/Postdocs Presidential Award Finalist

2 2:45 pm **Damage Associated Molecular Patterns (DAMPs)-Activated Neutrophil Extracellular Trap Formation Exacerbates Sterile Inflammatory Liver Injury**, Hai Huang, University of Pittsburgh  
*Poster B1*

**Thursday, October 23<sup>rd</sup> continued**

- 3 3:00 pm **The Melanocortin-Adenosinergic Pathway Mediates Immune Tolerance through a PD-1/PD-1L Dependent Mechanism**, Darren Lee, Boston University School of Medicine *Poster B96*

**SLB Student Presidential Award Finalist**

- 4 3:15 pm **Sensing Death: How the SaeR/S System Hijacks Cell Fate to Promote Disease**, Oliwia Zurek, Montana State University *Poster B2*
- 5 3:30 pm **MHCII<sup>+</sup> PMN Arise during Acute Cutaneous Leishmania Infection and Can Influence T Cells**, Richard Davis, University of Iowa *Poster B3*

**IEIIS Young Investigator Awardees**

- 6 3:45 pm **Isolation of Oligopotent Granulocyte-Monocyte Progenitors and Lineage-Committed Granulocyte Progenitors and Monocyte Progenitors from Mouse Bone Marrow**, Alberto Yanez, Cedars-Sinai Medical Center *Poster B4*
- 7 4:00 pm **Massive Neutrophil Extravasation during Sepsis and TLR2-Induced Cytokine Production Are Regulated by Integrin  $\alpha_3\beta_1$** , Yelena Lerman, University of Rochester *Poster B5*

**4:15 – 4:30 pm** BREAK

**4:30 – 6:00 pm** SLB and IEIIS Senior Level Awards

*Location: The Canyons*

4:30 pm Award Introductions

**SLB – Dolph Adams Award**

- 8 4:40 pm **Intrabronchial Infection of Rhesus Macaques with Simian Varicella Virus Results in a Robust Mucosal Immune Response.**, Ilhem Messaoudi, University of California Riverside *Poster B56*

**SLB – G. Jeannette Thorbecke Award**

- 9 5:00 pm **Regulating the Regulators: Regulatory Programs of Dendritic Cell Migration**, Stephanie Eisenbarth, UCR Yale University *Poster B31*

**IEIIS – Senior Awards**

5:15 pm **IEIIS – Alois H. Nowotny Award**

5:30 pm **IEIIS – Frederick B. Bang Award**

5:45 pm **IEIIS – Sheldon E. Greisman Award**

**6:00 - 7:00 pm**

**Opening Reception**

**7:00 - 8:00 pm**

**Plenary II – Bonazinga Keynote Lecture**

*Sponsored by Accurate Chemical*

*Location: The Canyons*

**Defective Inflammation Resolution and Innate Immunity in Atherosclerosis: Mechanisms and Therapeutic Opportunities**

**Ira Tabas, Columbia University, Bonazinga Award Winner**

**Friday, October 24th**

**8:00 am-5:00 pm Registration**

*Location: Canyons Lobby*

**7:00 - 9:00 am Society Committee Meetings**

**8:00 am-6:30 pm Exhibits**

*Location: Canyons Lobby*

**9:30 - 10:00 am**

**SLB Member Business Meeting**

*Location: Bryce*

**Presentation of Outgoing SLB Councilor Awards and Announcement of Presidential Award Winners and Presentation of SLB Honorary Lifetime Member Awards**

**9:30 am-10:00 am IEIIS Member Business Meeting**

*Location: Arches*

**Presentation of Outgoing IEIIS Councilor Awards and Announcement of Young Investigator Award Winners**

**10:00 am -12:00 pm Plenary III – Immune Ontogeny**

*Location: The Canyons*

Chair: Ruth Montgomery, Yale University

10:00 am **Dysregulation of Innate Immunity in Aging**, Ruth Montgomery, Yale University

10:30 am **Ontogeny of Toll-Like Receptor Function in Human Newborns and Infants: Mechanisms, Clinical Correlates, and Translational Opportunities**, Ofer Levy, Boston Children's Hospital and Harvard Medical School

11:00 am **The Development and Functional Diversity of the Innate Immune Responses in Humans**, Pascal Lavoie, University of British Columbia

11:30 am **Hematopoietic Stem Cells, Aging and Rejuvenation**, Harmut Geiger, Cincinnati Children's Hospital Medical Center

**12:00 – 1:30 pm Grant Writing Workshop**

(pre-registration required)

*Location: Wildcat*

Organizer: Julian Cambronero, Wright State University

Presenter: Tina McIntyre, NIH

This workshop is hosted by the SLB Professional Development Committee, as part of the educational mission of the Society for Leukocyte Biology. This workshop is targeted to graduate students, postdoctoral fellows, and junior faculty, who are new to the grant writing process. A short presentation will be followed by small group discussion tables to discuss grant writing strategies from multiple perspectives.

**12:00 – 1:30 pm Networking Sessions with Lunch**

*Location: Wasatch (limited seating)*

Pick up a box lunch in the *Courtyard Lobby* and join fellow meeting attendees in conversation. Seating is available in the *Wasatch* room or you may find an alcove to meet on your own.

**1:30-3:00 pm Concurrent Sessions**

**Concurrent 1: Granulocytes and Their Progenitors**

*Location: Bryce*

Chair: Mariana Kaplan, National Institutes of Health

Co-Chair: Sergey Novitskiy, Vanderbilt University

1:30 pm **Neutrophils in the Pathogenesis of Systemic Autoimmune Diseases**, Mariana Kaplan, NIAMS/NIH

**10** 2:00 pm **The Role of CXCR2 in the Host Response to *Salmonella typhimurium* Colitis**, Suzi Klaus, University of California Irvine *Poster B6*

**Friday, October 24<sup>th</sup> (con't)**

**11** 2:15 pm **Dysregulation of Neutrophil-Maintained Bone Marrow Hematopoietic Niche Induces Inflammatory Myelopoiesis**, Norifumi Urao, University of Illinois at Chicago *Poster B7*

**12** 2:30 pm **Disruption of the Polyisoprenyl Diphosphate Phosphatase 1 Gene Enhances Neutrophil-Dependent Bacterial Clearance in a Murine Model of Pneumonia**, Carlo Troy, Brigham and Women's Hospital/Harvard Medical School *Poster B8*

**13** 2:45 pm **NADPH Oxidase Limits Sterile Inflammation by Modulating IL-1/G-CSF-Driven Neutrophilic Inflammation**, Juhi Bagaitkar, Washington University in St. Louis, \*SLB Travel Award Winner, *Poster B9*

**Concurrent 2: Regulation of Host-Microbe Interactions by Reprogramming/Remodeling of MAMPs/PAMPs**

*Location: The Canyons*

Co-Chairs: M. Stephen Trent, University of Texas, Austin; Robert Munford, NIAID/NIH; Robert Ernst, University of Maryland Sch. of Dent.

1:30 pm **Remodeling of Gram-Negative Lipopolysaccharides**, M. Stephen Trent, University of Texas, Austin

**14** 2:00 pm **New Roles for PagP in Bacterial Evasion of Host Immune Defenses**, Russell Bishop, McMaster University *Poster B16*

**15** 2:15 pm **Targeting TLR4 as an Efficacious Anti-influenza Strategy**, Kari Ann Shirey, University of Maryland Baltimore  
*Theresa L. Gioannini Women in Science Travel Award Winner, Poster B17*

**16** 2:30 pm **Effect of Core Polysaccharide in Activation of TLR4 by *Escherichia coli***

**Lipopolysaccharide**, Gregory Esparza, University of Iowa *Poster B18*

**17** 2:45 pm **The Bordetella Saga: Lipopolysaccharides Structure to Activity Relationships**, Martine Caroff, CNRS University Paris Sud *Poster B19*

**Concurrent 3: Special Journal Session: Best of JLB and Innate Immunity**

*Location: Arches*

Co-Chairs: Luis Montaner, Editor, *Journal of Leukocyte Biology* and The Wistar Institute  
Otto Holst, Editor, *Innate Immunity* and the Research Center Borstel

1:30 pm **Article Introduction by Editors**

**18** 1:45 pm **Women and Diversity Paper of the Year Award**  
**Natural Killer Cell-Mediated Adaptive Immunity in Trans-nuclear Mice and Humanized Mice**, Silke Paust, Leidos Baylor College of Medicine *Poster B30*

2:00 pm **The Role of DNA Sensing and Innate Immune Receptor TLR9 in Otitis Media**, Allen Ryan. *Innate Immunity* 2012 18 3-13

2:15 pm **Characterization of the Nature of Granulocytic Myeloid-Derived Suppressor Cells in Tumor-Bearing Mice**, Dimitry I. Gabrilovich, *Journal of Leukocyte Biology* 91: 167-181, 2012 (January)

2:30 pm **A Variety of Novel Lipid A Structures Obtained from *Francisella tularensis* Live Vaccine Strain**, Nilofer Qureshi, *Innate Immunity* April 2012 18: 268-278

2:45 pm **The Dectin-1/Inflammasome Pathway Is Responsible for the Induction of Protective T-Helper 17 Responses That Discriminate between Yeasts and Hyphae of *Candida albicans***, M. G. Netea (*Journal of Leukocyte Biology* 90: 357-366, 2011 (August))

**Friday, October 24<sup>th</sup> (con't)**

**3:00-3:30 pm Networking Coffee Break**

*Location: Canyons Lobby*

**3:30-5:00 pm Concurrent Sessions**

**Concurrent 4: Structure and Function of Pattern Recognition Receptors or Their Targets**

*Location: Bryce*

Chair: Kensuke Miyake, University of Tokyo

Co-Chair: Aaron Neumann, University of New Mexico

**19** 3:30 pm **Structure and Function in Toll-Like Receptors**, Kensuke Miyake, University of Tokyo

**20** 4:00 pm **Pellino-1 and Pellino-3b in TLR Signaling and Tolerance**, Andrei Medvedev, University of Connecticut Health Center  
*Poster B32*

**21** 4:15 pm- **Allergy- Protective Activation of Dendritic Cells by the Cowshed Bacterium *Lactococcus lactis* G121 Requires Endosomal Acidification and Activation through TLR13**, Holger Heine, Research Center Borstel  
*Poster B33*

**137** 4:30 pm **Inflammatory Caspases Are Innate Immune Receptors for Intracellular LPS**, Feng Shao, National Institute of Biological Sciences, Beijing, *Poster LB17*

**23** 4:45 pm **Micro- and Nanoscale Spatial Organization of *Candida*  $\beta$ -Glucan and C-Type Lectins during Innate Immune Fungal Recognition**, Aaron Neumann, University of New Mexico  
*Poster B35*

**Concurrent 5: Animal Models: Challenges and New Developments**

*Location: The Canyons*

Co-Chairs: Stefanie Vogel, University of Maryland Baltimore; H. Shaw Warren, Harvard Medical School, Massachusetts General Hospital

3:30 pm **Interplay of Innate Signaling Pathways in Response to Viral Infection**, Stefanie Vogel, University of Maryland Baltimore

4:00 pm **Animal Models for Human Diseases; A Possible Path Forward**, H. Shaw Warren, Harvard Medical School, Massachusetts General Hospital

**24** 4:30 pm **Mirroring the Complexity of Human Inflammatory Uveitis in Animal Models**, Rachel Caspi, NEI/NIH  
*Poster B51*

**25** 4:45 pm **C1q Modulation of Cytokine Production in Human and Mouse Macrophages during Clearance of Atherogenic Lipoproteins Correlates with Suppression of NF $\kappa$ B Activity**, Weston Spivia, California State University, Long Beach, *\*SLB Travel Award Winner, Poster B52*

**Concurrent 6: Immunological Assays**

*Location: Arches*

Chair: Julio Delgado, University of Utah School of Medicine

Co-Chair: Silke Paust, Baylor College of Medicine

3:30 pm **New Diagnostic Assays for Human Immune Diseases**, Julio Delgado, University of Utah School of Medicine

**26** 4:00 pm **New Challenges of Endotoxin Detection in Modern Pharmaceuticals**, Johannes Reich, University Regensburg, Germany  
*Poster B57*

**27** 4:15 pm **Acute Phase Deaths from Polymicrobial Sepsis are Characterized by Suppression, but Not Exhaustion, of Innate Immunity**, Evan Chiswick, Boston University, *\*SLB Travel Award Winner, Poster B58*

**28** 4:30 pm **Ethanol Intoxication Amplifies Pro-inflammatory Phenotype on Pre-alveolar Macrophages after Post-burn Pulmonary Infection**, Jill Ippolito, Loyola University Chicago, *\*SLB Travel Award Winner, Poster B59*

**Friday, October 24<sup>th</sup> (con't)**

**29** 4:45 pm **Identification of a Second Patient with p40phox Chronic Granulomatous Disease**, Douglas Kuhns, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research *Poster B60*

**5:00-6:30 pm**

**Poster Session I - Reception**

*Location: Alta-Deer Valley and Lodge Lobby*

Please join us for light fare and refreshments while you enjoy the poster presentations. *Only odd number posters present in Session I.*

**7:00 - 8:00 pm Individual Development Plan (IDP) Workshop**

(pre-registration required)

*Location: Wildcat*

Organizer: Louis Justement

The Individual Development Plan (IDP) Workshop is designed to introduce this web-based instrument that allows an investigator to assess her/his career objectives and delineate possible opportunities extending beyond academic research, such as pharmaceutical companies, science policy, science writing, patent law, etc. It will be led by Dr. Louis Justement, Professor at the Department of Microbiology, University of Alabama at Birmingham School of Medicine. Following the presentation of the IDP basics, participants will be assigned to 4-5 round tables where they will begin to work hands-on developing their individual IDPs on their laptops.

**8:00 - 9:00 pm Members in Transition and Training Committee – Exploratory Meeting (MTTC)**

*Location: Wildcat*

Join us for a conversation exploring the possibility of a new SLB committee.

**Saturday, October 25th**

**8:00 am-5:00 pm Registration**

*Location: Canyons Lobby*

**8:00 am-4:30 pm Exhibits**

*Location: Canyons Lobby*

**7:30 – 9:30 am Women and Diversity Session with Breakfast**

(pre-registration required)

*Location: Wildcat*

Organizer: Elizabeth Fitzpatrick

This annual *Women and Diversity* Committee Round Table Discussion will focus on *Negotiating*. Featured keynote speaker Dr. Jill Suttles, Associate Dean of Faculty Affairs, University of Louisville, Louisville, KY will offer a talk on tips for negotiating job offers/promotions. In addition, Dr. Luis Montaner, Editor-in-Chief of JLB, Professor, Wistar Institute Philadelphia, PA will speak on negotiating with Journal editors.

**9:30-11:00 am Plenary IV – Microphysiologic Systems and Bioengineering**

*Location: The Canyons*

Chair: Dan Huh, University of Pennsylvania

9:30 am **A Microphysiologic Human Tissue Construct Recreates In Vivo-Like Autologous Antigen-Specific Newborn CD4 T Cell Responses to BCG Vaccine**, Guzman Sanchez-Schmitz, Boston Children's Hospital and Harvard Medical School

10:00 am **Microengineered Physiological Bio-mimicry: Human Organs-on-Chips**, Dan Huh, University of Pennsylvania

10:30 am **Platform Technologies for Interacting Organ Microsystems**, Jeffery Borenstein, Draper Laboratory

**Saturday, October 25<sup>th</sup> (con't)**

**11:00 – 11:30 am Networking Coffee Break**

*Location: Canyons Lobby*

**11:30 am - 1:00 pm Plenary V – Targeting Immunity to Treat Disease**

*Location: The Canyons*

Chair: David Fox, University of Michigan

11:30 am **Targets for Biologic Therapeutics in the Treatment of Inflammatory Arthritis**, David Fox, University of Michigan

12:00 pm **Revising Therapeutic Strategies in Systemic Lupus**, Betty Diamond, The Feinstein Institute for Medical Research

12:30 pm **Jakinibs: Bedside to Genomic Switches**, John O'Shea, NIAMS/NIH

**1:00-2:30 pm Poster Session II - Lunch**

*Location: Alta-Deer Valley and Courtyard Lobby*  
Please join us for lunch while you enjoy the poster presentations. *Only even number posters present in Session II.*

**2:30-4:00 pm Concurrent Sessions**

**Concurrent 7: Mast Cells, Monocytes and Macrophages**

*Location: Bryce*

Chair: Stephen J. Galli, Stanford University School of Medicine

Co-Chair: Laura Sly, University of British Columbia

2:30 pm **Roles of Mast Cells and Th2 Responses in Enhancing Host Resistance to Venoms: Is This an Origin of Allergy?**  
Stephen J. Galli, Stanford University School of Medicine

30 3:00 pm **Big MAP Kinase 1/ERK5 Mediates Toll-Like Receptor 2- and 4-Dependent Inflammatory Responses in Endothelial Cells and Monocytes**, Katherine Farrar, University of California, San Francisco  
*Poster B64*

31 3:15 pm **Polyarginine and Hyaluronic Acid-Based Coating for Titanium Implants Suppresses Inflammatory Responses in Macrophages**, Vladimir Ryabov, Medical Faculty Mannheim, Heidelberg University  
*Poster B65*

32 3:30 pm **CD14-Independent Receptor Internalization and Signaling Mediated by TLR4/MD2 Agonistic Antibody**, Rajesh Rajaiah, University of Maryland Baltimore  
*IEIIS Travel Award Winner, Poster B66*

33 3:45 pm **Francisella tularensis Schu S4 O-Antigen and Capsule Mutants Induce Programmed Necrosis in Primary Human and Murine Macrophages**, Lee-Ann Allen, University of Iowa  
*Poster B67*

**Concurrent 8: The Human Microbiome in Health and Disease**

*Location: The Canyons*

Chair: Elizabeth Grice, University of Pennsylvania

Co-Chair: Kari Ann Shirey, University of Maryland, Baltimore

2:30 pm **Skin Microbiome and Host Responses in Health and Disease**, Elizabeth Grice, University of Pennsylvania

34 3:00 pm **TL1A Signaling Enhances the Differentiation of TH9 Cells and TH9-Driven Pathologies via STAT6 Signaling Pathways**, Kathrin Michelsen, Cedars-Sinai Medical Center  
*Poster B70*

35 3:15 pm **Chronic Ethanol Consumption Alters Intestinal Microbiota Impairing Immune Function**, Tasha Barr, University of California Riverside  
*Poster B71*

36 3:30 pm **Phosphoinositol Lipoarabinomannan Involvement in Mycobacterium smegmatis-Modulation of Neutrophil Functions**, Irina Miralda, University of Louisville, \*SLB Travel Award Winner, *Poster B72*

**Saturday, October 25<sup>th</sup> (con't)**

- 37** 3:45 pm ***Salmonella typhimurium* Co-opts the Mammalian Type I Interferon System to Restrict Innate inflammatory Responses Selectively and Promote Pathogenesis**, Darren Perkins, University of Maryland Baltimore *IEIIS Travel Award Winner, Poster B73*

**Concurrent 9: Epigenetic Regulation of Innate Immunity**

*Location: Arches*

Chair: Mihai Netea, Radboud University Nijmegen  
Co-Chair: Tiefu Liu, Wake Forest University School of Medicine

- 2:30 pm **Trained Immunity: An Epigenetic Memory for Innate Immune Response**, Mihai Netea, Radboud University Nijmegen
- 38** 3:00 pm **Jmjd3- Mediated Epigenetic Regulation of Inflammatory Cytokine Gene Expression in Serum Amyloid A-Stimulated Macrophages**, Lei Sun, Shanghai Jiao Tong University *Poster B75*
- 39** 3:15 pm **NAD-Dependent SIRT4 Participates in the Resolution of Acute Inflammatory Response by Restoring Immunometabolic Homeostasis**, Tie Fu Liu, Wake Forest School of Medicine *Poster B76*
- 40** 3:30 pm **Inhibition of Heat Shock Protein 90 Alters Epigenetic Genes Important in Innate Immune Responses and Metabolism in a Mouse Model of Alcoholic Liver Injury**, Pranoti Mandrekar, University of Massachusetts Medical School *Poster B77*
- 41** 3:45 pm **Dynamic Programming of Innate Immune Responses by Varying Dosages of Endotoxin**, Li Liwu, Virginia Tech *Poster B78*

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

**Networking Coffee Break**

**4:30-6:00 pm**

**Concurrent Sessions**

**Concurrent 10: Neonatal Inflammation**

*Location: Bryce*

Chair: Steve Reed, Infectious Diseases Research Institute Seattle

Co-Chair: Jessica Snowden, University of Nebraska Medical Center

- 4:30 pm **New Adjuvants for New Vaccines**, Steve Reed, Infectious Diseases Research Institute Seattle
- 42** 5:00 pm **The Alarmin High-Mobility Group Nucleosome-Binding 1 Protein Contributes to the Induction of Antitumor Immunity**, De Yang, National Cancer Institute *Poster B80*
- 43** 5:15 pm **Developmental Regulation of Human Immune Responses: Comparative Genome-Wide Profiling of Neonatal Monocytes**, Bernard Kan, University of British Columbia *Poster B81*
- 44** 5:30 pm **Do Peripheral Myeloid Cells Contribute to Brain Injury Following Neonatal Hypoxia-Ischemia?** Carina Mallard, University of Gothenburg *Poster B82*
- 45** 5:45 pm **Are Routine Automated Complete Blood Counts with Manual Differentials for Determining Neonatal Neutrophil Composition Antiquated?** Shelley Lawrence, University of California San Diego *Poster B83*
- Concurrent 11: Regulation of Innate Immune Signaling: Novel Mechanisms**
- Location: The Canyons*
- Co-Chairs: Ann Richmond, Vanderbilt University, SLB President; Jerry Weiss, University of Iowa, IEIIS President
- 4:30 pm **Mind Over Innate Immunity**, Luis Ulloa, New Jersey Medical School, Rutgers University
- 46** 5:00 pm **The Role of Kupffer Cells in the Response to Intoxication and Burn Injury**, Michael Chen, Loyola University Chicago *IEIIS Travel Award Winner, Poster B87*



**Saturday, October 25<sup>th</sup> (con't)**

- 47 5:15 pm **Human Host Defense Peptide LL-37 Enhances the LPS Uptake by Endothelial Cells without Cell Activation: A Possible Role in the LPS Clearance**, Kaori Suzuki, Juntendo University School of Medicine  
*Poster B88*
- 48 5:30 pm **The Palmitoylated  $\alpha$ -Peptide/ $\beta$ -Peptoid Hybrid Pam-(Lys- $\beta$ NSpe)6-NH<sub>2</sub> is a Novel Host Defense Peptide Mimetic with Potent Anti-inflammatory Activity**, Sarah Skovbakke, University of Copenhagen  
*Theresa L. Gioannini Women in Science Travel Award Winner, IEIIS Travel Award Winner, Poster B89*
- 49 5:45 pm **Refined Pathogenesis of *S. aureus* in Response to Neutrophil-Derived Signals Is Regulated by the Pathogen at the Single Amino Acid Level**, Delisha Meishery, Montana State University, \*SLB Travel Award Winner  
*Poster, B90*
- 22 6:00 pm **Molecular Requirements for Activation and Antagonism of TLR4**, Jerry Weiss, University of Iowa  
*Poster B34*

**Concurrent 12: Inflammasomes: Mechanisms of Sterile and Infectious Inflammation**

*Location: Arches*

Chair: Ed Miao, University of North Carolina at Chapel Hill

Co-Chair: Jason Barker, University of Iowa

- 50 4:30 pm **Cytoplasmic LPS Activates Caspase-11: Implications in TLR4-Independent Endotoxic Shock**, Ed Miao, University of North Carolina at Chapel Hill
- 51 5:00 pm **NLRP12 Mediates Neutrophil Recruitment during Pulmonary Bacterial Infection**, Fayyaz Sutterwala, University of Iowa  
*Poster B97*
- 52 5:15 pm **Guanylate Binding Proteins Promote Caspase-11 Activation but not the Release of LPS from *Chlamydia*-**

**Containing Vacuoles**, Jörn Coers, Duke University  
*Poster B98*

- 53 5:30 pm **The Roles of NLRP10 in Inflammation and Parasite Control in Cutaneous Leishmaniasis**, Gwendolyn Clay, University of Iowa, \*SLB Travel Award Winner,  
*Poster B99*

- 54 5:45 pm **Nod-Like Receptor Protein-3 Inflammasome Important in Early Stages of Wound Healing**, Eileen Weinheimer-Haus, University of Illinois at Chicago  
*Poster B100*

**6:30-9:30 pm SLB Council and Committee Working Dinner**

*Location: Off-Site, New Yorker*