



## Welcome from the Chairs

Dear 2018 Attendees,

Welcome to the 2018 meeting of the Society for Leukocyte Biology (SLB) and the International Endotoxin and Innate Immunity Society (IEIIS). We are very much looking forward to seeing you at this meeting in Chandler, Arizona October 14-16, 2018. This is the fourth joint meeting of our societies and the program has been carefully designed to highlight research that will be of interest to our members.

The program has plenary sessions focused loosely on “Myeloid Cells: Development, Environment, and Inflammation”, concurrent topic sessions of interest to our members and numerous awards lectures supported by both of our societies with national and international speakers. Be sure to check out the selection of the most highly cited recent papers from our flagship journals, *The Journal of Leukocyte Biology* and *Innate Immunity*.

Both of our societies are committed to supporting the next generation of young scientists and to career development at all stages, and this meeting reflects this with numerous workshops and networking opportunities. Many of the oral presentations will be made by our younger colleagues which should enhance the vitality of the meeting. Be sure check out the “Poster Flash Talks”, a session that has been well-received in previous meetings, and also the posters themselves.

The meeting organizers carefully selected Chandler Arizona as it provides easy international access via Phoenix, excellent meeting accommodations, and a beautiful setting in the American desert southwest. Working diligently with the meeting organizers, we have been able to keep the meeting affordable to allow investigators to stretch precious research dollars.

This meeting would not have been possible without the strong support from all of our sponsors. We are thankful to Bio-Techne, Dean McGee Eye Institute, BioLegend, Biogen, ThermoFisher, AbbVie, Genentech, Illumina, Cayman Chemical, Hycult Biotech, The Company of Biologists, InvivoGen, and Millipore. We would also like to thank the National Institutes of Health, specifically NIAID and NIBIB, for their generous support of this meeting. The organizers thank everyone in IEIIS and SLB who have contributed to the meeting, in particular Anne Pereira, SLB Development Chair, who helped with fundraising.

Thank you for your participation at the meeting and your ongoing support of our societies.

Sincerely,

David Underhill, Egil Lien, and Darren Lee



## Photography, Video Recording and Social Media



Photography and/or video recording of presentations, posters, slides and all data is prohibited unless otherwise explicitly stated by the presenter. Use of social media should not include any images or specifics of data presented unless otherwise explicitly stated by the presenter. Please note abstracts with the “no tweeting” symbols. SLB and IEIIS may take photographs of award presentations and social events to document the conference but will not include any presentation slides. Help us ensure your work is respected for the immense value it brings to our profession.

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### Table of Contents

Welcome Letter.....	1
SLB Society Officers.....	3
IEIIS Society Officers.....	4
2018 Awardees.....	5
2018 Exhibitors.....	6
General Information.....	7
Other Meetings.....	8
Pre-Meeting Satellites.....	9
Scientific Program.....	10
Poster Program.....	19
Author Index.....	20
Floorplan/Map.....	24

### Official Event App

- Explore the **professional profiles** of event speakers and attendees
- Send **in-app messages** and **exchange contact info**
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## SLB Society Officers

**President**

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*University of Iowa*

**President-Elect**

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*University of Michigan*

**Past-President**

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*University of Tennessee*

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*Montana State University*

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**Editor-in-Chief**

*Journal of Leukocyte Biology*  
Luis Montaner  
*The Wistar Institute*

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Veronique Witko-Sarsat  
*INSERM*

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Diane Bimczok  
*Montana State University*

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[www.leukocytebiology.org](http://www.leukocytebiology.org)



## IEIIS Society Officers

**President**

Egil Lien  
*UMASS*

**President-Elect**

Koichi Fukase  
*Osaka University*

**Past President**

Otto Holst  
*Research Center Borstel*

**Secretary**

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*Johns Hopkins University*

**Treasurer**

Amy Hise  
*Case Western University*

**Editor-in-Chief**

*Innate Immunity*  
Otto Holst  
*Research Center Borstel*

**Administrative Offices**

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**Scientific Councilors*****Chemistry:***

Francesco Peri  
*University of Milano-Bicocca*

Robert Ernst  
*University of Maryland*

***Immunology:***

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*University of Milano-Bicocca*

David Underhill  
*Cedars-Sinai*

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*Qatar University*

Russell Bishop  
*McMaster University*

***Pathology:***

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Amy Hise  
*Case Western University*

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Timothy Sellati  
*Global Lyme Alliance*

**Website Coordinator**

Holger Heine  
*Research Center Borstel*

2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society

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## 2018 Awards

### SLB Legacy Lecturer

Mary Dinauer, *Washington University St. Louis*

### IEIIS Senior Awards

#### Alois H. Nowotny Award

Alison Scott, *Uni. of Maryland*

#### Frederick B. Bang Award

Chris Whitfield, *Uni. of Guelph*

#### Sheldon E. Greisman Award

Andrei Medvedev, *posthumous*

### SLB Mid-Career Awards

#### Dolph O. Adams Award

Melissa Lodoen, *UC Irvine*

#### G. Jeanette Thorbecke

Qing Deng, *Purdue Uni.*

#### Paper of the Year

Amanda Jamieson, *Brown Uni.*

### SLB Presidential Award Nominees

#### **Student Category:**

Amanda Pulsifer, *University of Louisville*

Mandi Roe, *Montana State Uni.*

Charles Yin, *Western University*

#### **Junior Faculty/Post-Doc Category:**

Prajwal Gurung, *University of Iowa*

Matthew Long, *University of Washington*

### IEIIS Young Investigator Awards

Courtney Chandler, *Uni. of Maryland, Baltimore*

Yanyan Li, *Harvard Medical School*

### IEIIS Theresa L. Gioannini Award

Federica Agliano, *Uni. of Connecticut Hlth. Cntr*

### SLB Lifetime Honorary Members

Elizabeth J. Kovacs, *Uni. of Colorado, Denver*

William M. Nauseef, *University of Iowa*

### SLB Outgoing Council Awards

Claire Doerschuk, *Uni. of N. Carolina Med. Schl*

Anne Pereira, *OUHSC*

Bruce Walcheck, *University of Minnesota*

Diane Bimczok, *Montana State University*

### SLB Mentoring Diversity Travel Awards

Marcus Davis, *University of Alabama*

Chyna Gray, *Brown Uni./ Rhode Island Hospital*

Kathryn Woods, *Uni. of Arkansas for Med. Sci.*

### SLB First Year Lab Travel

Juhi Bagaitkar, *University of Louisville*

### 2018 SLB Travel Award Winners

Benjamin Avner	Lynn Frydrych	Marisa Luck	Fauziyya Muhammad	Michael Shehat
Devin Boe	Zhen Gu	Sarah Metcalfe	Christopher Nazarov	Gwenn Skar
Megan Bosch	Marziah Hashimi	Kathryn Michels	Wurood Neamah	Chanchal Surchowdhury
Elaine Bradford	Holly Hulsebus	Madelyn Miller	Seeun Oh	Suhas Sureshchandra
Yeonhee Cho	Artur Javmen	Irina Miralda	Allison Rahtes	Kelsey Yamada
Krystal Colon-Rivera	Mausita Karmakar	Hemant Mishra	Nicholas Rhoades	Chenxuan Yang
Felix Ellett	Paulius Kuprys	Fatemeh Momen-Heravi	Tatiane S. Lima	Dae-goon Yoo

### 2018 IEIIS Travel Awardee

Pontus Orning, *UMASS*



## 2018 Exhibitors

### Table #1

#### **BioLegend**

9727 Pacific Heights Blvd.  
San Diego, CA 92121 USA  
T: 858.455.9588

[sales@biolegend.com](mailto:sales@biolegend.com)

[www.biolegend.com](http://www.biolegend.com)

Jennifer Boyle

### Table #2

#### **Illumina**

5200 Illumina Way  
San Diego, CA 92122 USA  
T: 858.202.4500

[www.illumina.com](http://www.illumina.com)

Michele Langner: [mlangner@illumina.com](mailto:mlangner@illumina.com)

Sarah Baird: [sbaird@illumina.com](mailto:sbaird@illumina.com)

Wilson Braulio

### Table #3

#### **ThermoFisher Scientific**

5823 Newton Drive  
Carlsbad, CA 92008 USA  
T: 760.583.0065

[basile.siewe@thermofisher.com](mailto:basile.siewe@thermofisher.com)

[www.thermofisher.com](http://www.thermofisher.com)

Basile Siewe

### Table #4

#### **Cayman Chemical**

1180 East Ellsworth Road  
Ann Arbor, MI 48108  
T: 800.364.9897 or 734.971.3335

[Sales@CaymanChem.com](mailto:Sales@CaymanChem.com)

[www.CaymanChem.com](http://www.CaymanChem.com)

Olivia May

### Table #5

#### **Hycult Biotech**

987 Old Eagle School Road STE 709  
Wayne, PA 19087 USA  
T: 855.249.2858

[orders-us@hycultbiotech.com](mailto:orders-us@hycultbiotech.com)

[www.hycultbiotech.com](http://www.hycultbiotech.com)

Bianca DiCamillo

### Table #6

#### **MilliporeSigma**

400 Summit Drive  
Burlington, MA 01803  
T: 978.715.1380

[Richard.demarco@emdmillipore.com](mailto:Richard.demarco@emdmillipore.com)

[www.emdmillipore.com](http://www.emdmillipore.com)

[www.sigmaaldrich.com](http://www.sigmaaldrich.com)

Richard Demarco

### Table #7

#### **Journal of Leukocyte Biology / Wiley & Sons**

9650 Rockville Pike  
Bethesda, MD 20814-3998 USA  
T: 301.634.7814

[jlbstaff@leukocytebiology.org](mailto:jlbstaff@leukocytebiology.org)

<https://jlb.onlinelibrary.wiley.com/>

Barbara Vann, Jinnie Kim, and Mia Ricci

### Table #8

#### **Innate Immunity / Sage Publishing**

1 Oliver's Yard, 55 City Road  
London, EC1Y1SP UK  
T: +44 (0).20.7324.8633

[Gabriella.Anderson@sagepub.co.uk](mailto:Gabriella.Anderson@sagepub.co.uk)

[www.sagepublishing.com](http://www.sagepublishing.com)

Gabriella Anderson (*Publishing Editor*)



## General Information

### **Registration**

Registration fees include main conference scientific sessions, one program booklet and the included meals listed below. Registration fees **exclude** hotel and travel costs. Onsite registration will be accepted with payment via checks and credit cards.

### **Included Meals**

**10/13** - For registered special interest group satellite attendees, a lite lunch is included.

**10/14** - PM coffee break, reception dinner

**10/15** - breakfast, lunch, 2 PM coffee breaks, casual social reception dinner

**10/16** - breakfast, lunch, PM snacks

### **Abstracts**

Full abstracts are available on the website and in the event app.

URLs:

#### **App web version**

[https://whova.com/webapp/e/slbpr\\_201809/](https://whova.com/webapp/e/slbpr_201809/)

#### **Abstract PDF**

[https://slb.memberclicks.net/assets/docs/SLB2018/2018%20SLB IEIIS%20Abstract%20Book.pdf](https://slb.memberclicks.net/assets/docs/SLB2018/2018%20SLB%20IEIIS%20Abstract%20Book.pdf)

### **Meeting Space Internet Access**

Internet access is provided in the meeting spaces. Bring your own device. Access will work in the poster board area for mobile viewing of abstracts and posters simultaneously.

**Network = Sheraton-Meeting-Room**

**Passcode = SLBIEIIS2018**

### **Speaker Ready Room**

Speakers are to load their talks *at least* 2 hours prior to their session in the speaker ready room "Thunder 1". If you require assistance, please contact the AV Technicians well in advance of your presentation. Arrive in your session room at least 15 minutes prior to the start time.



### **Thunder 1 Speaker Ready Room Hours**

Sunday, October 14<sup>th</sup> – 8 am – 6 pm

Monday, October 15<sup>th</sup> – 8 am – 5 pm

Tuesday, October 16<sup>th</sup> – 8 am – 3:30 pm



### **Accompanying Persons**

Guests of attendees are encouraged to enjoy the resort and local area during conference hours. There are many activities and attractions to explore! See the hotel concierge for ideas.

### **Child Care**

There are multiple child care options onsite. The hotel offers an "Adventure Club" program for children 4-12 which is activity-based. The club has half day and full day priced options and is available through the hotel directly at (480)393-6183. Additionally, there are two babysitting service recommendations provided by the hotel.

1) A Child's Garden, (480)354-2122,

<http://achildsgardenaz.com/>

2) Arizona Lullaby Guild, (602) 852-0459,

<http://arizonalullabyguild.com/child-care/>.

A quiet room close to the meeting sessions will be provided for nursing mothers to have a private location for use during the daytime. Stop by the registration desk for availability.

### **Membership**

All SLB and IEIIS members are encouraged and invited to attend the relevant society business meetings. See the program for details. Membership inquiries for both societies are welcome at the registration desk.



**2018 Joint Meeting of the Society for Leukocyte Biology and  
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**Poster Set-up/Poster Sessions**

All posters are displayed throughout the entire conference and formally presented in two sessions. Lunch is provided for all registered attendees.



**Poster Schedule**

**Set-up begins:** Sunday, October 14<sup>th</sup> 12 pm

**Remove by:** Tuesday, October 16<sup>th</sup> 3:30pm

**ODD Numbered Abstracts - Session I**

Monday, October 15<sup>th</sup>, 11:00 am – 1:00 pm

**EVEN Numbered Abstracts - Session II**

Tuesday, October 16<sup>th</sup>, 11:00 am – 1:00 pm



**Awards**

SLB Travel awardees are required to attend the SLB business meeting for recognition and a brief photography session. All other awards will be presented during the named program session or during the society business meeting. Please refer to your notification letter for stipend and reimbursement details where applicable.

**Special Needs**

Registrants with special needs are invited to contact the Registration Desk or hotel concierge for assistance. Neither SLB nor IEIIS discriminate on any basis and remain available to ensure a positive conference experience for all attendees.

**Code of Conduct**

SLB and IEIIS are pleased to provide a collegial environment for the professional exchange of scientific ideas as well as a collaborative social network of researchers in the field. All participants are expected to behave appropriately; respecting fellow attendees, presenters, sponsor representatives, volunteers, and staff. Discrimination, harassment, or bullying, in any form, for any reason, will not be tolerated. If you have questions about the expectations or concerns about conference behavior, please visit the registration desk. Thank you for joining in these efforts to ensure a positive conference experience for everyone.

**Liability**

Neither the host venue nor the organizers can be held responsible for any personal injury, loss, damage to private property or additional expense incurred as a result of participating in the conference or for related delays or changes in air, rail, sea, road or other services. All participants are encouraged to make their own arrangements for health and travel insurance. The organizers are not responsible for materials posted or content presented.

**Other Meetings:** The following society administrative meetings will be held in conjunction with the annual conference and are by invitation only.

**Saturday, October 13<sup>th</sup>**

SLB Council – 5-9pm, Ant

IEIIS Council – 5-9pm, Quail

**Sunday, October 14<sup>th</sup>**

SLB MTTG – 8:30-9:30pm, Coyote

**Monday, October 15<sup>th</sup>**

SLB Women & Diversity Comm. – 7-7:40am, Ant

SLB Membership Committee – 7:40-8:20am, Ant

SLB Communications Committee – 8:20-9am, Ant

SLB Publications Comm. – 7-7:30am, Quail

JLB Editorial Board – 7:30-9am, Quail

**Tuesday, October 16<sup>th</sup>**

SLB Prof. Development Committee – 8-9am, Quail

*Innate Immunity* Editorial Board – 7-9am, Ant

MTTG – 2:30-3:30pm, Coyote

SLB Council – 6-9pm, Coyote/Buzzard/Eagle





## Pre-Program

**Saturday, October 13<sup>th</sup>**

### **1:00 – 4:00 pm** Special Interest Group Satellites

#### **Enabling Technologies for Leukocyte Research**

**Location:**

Chair: Daniel Irimia, *Harvard Medical School*

Coyote

- Microfluidic Devices for CD64+ Neutrophils Counting and Sepsis Diagnostic, Rashid Bashir, *U. Illinois Urbana Champaign #118*
- Neutrophil Extracellular Trap-Inspired Microfluidics and Biomaterials, Shuichi Takayama, *Georgia Tech*
- High-throughput Purification and Viral Transduction of Leukocytes, Ken Kotz, *DRAPER Labs, Boston*
- Label-free Enrichment of Mononuclear Cells from Blood, Thomas Laurell, *Lund Uni., Sweden #117*
- How Neutrophils Seal off Sites of Bacterial and Fungal Infections, Alex Hopke, *Harvard Medical School*

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#### **Microbiome, Mucosal Immunology and Aging**

**Location:**

Chairs: Rebecca Fuldner, *NIA/NIH* & Alan Landay, *Rush*

Buzzard

- Differential Effects of Aging on CD8+ T-cells in the Gut vs. Peripheral Blood, Beth Jamieson, *UCLA*
- Inflammaging and the Microbiome: A Dangerous Liaison, Alan Landay, *Rush*
- Inflammaging, Microbiome and the Multi-organ Response to Injury, Elizabeth J. Kovacs, *UC Denver*
- HIV and the Aging Gut: Inflammatory Consequences of Mucosal Immune Dysfunction, Cara Wilson, *UC Denver*
- The Impact of Age and Gut Microbiota on T Cells in Autoimmune Arthritis, Joyce Wu, *Uni. of Arizona*
- Impact of Chronic Viral Infections on Mucosal Immune Aging and Microbiome, Satya Dandekar, *University of California, Davis*

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#### **Emerging Concepts in NLR Sensing and Signaling**

**Location:**

Chairs: Irving Coy Allen, *Virginia Tech* & Ed Miao, *UNC Chapel Hill*

Eagle

- Inflammasomes: Linking infection and inflammation, Vijay Rathinam, *UConn Health Schl. of Med.*
- The NLRC4 Inflammasome in Host Defense, Youssef Achoui, *UNC Chapel Hill*
- The NLRP1 Inflammasome, Andrew Sandstrom, *University of California Berkeley*
- Regulation of Inflammasome and Inflammatory Responses by Myxoma Virus: An Oncolytic Poxvirus, Masmudur Rahman, *Arizona State University*
- Inflammasome Signaling in Neuroinflammation and Injury, John Lukens, *University of Virginia*
- Beyond the Inflammasome: Regulatory NLRs in Immune System Homeostasis, Irving Coy Allen, *Virginia Tech*

Joint Meeting of Society for Leukocyte Biology &  
International Endotoxin and Innate Immunity Society  
“Myeloid Cells: Development, Environment and Inflammation”



October 14-16, 2018  
Sheraton Grand at Wild Horse Pass, Chandler, Arizona

## Sunday, October 14<sup>th</sup>

**Registration**  
8:00 am – 6:00 pm  
Akimel Foyer

**Speaker Ready Room**  
8:00 am – 6:00 pm  
Thunder 1

**Exhibits**  
12:00 pm – 5:00 pm  
Akimel Foyer

**9:00 – 11:00 am Poster Flash Talks: Highlighted  
Poster Session Presentations**

**Chairs:**  
Stephania Libreros, *Harvard*;  
Shuvasree Sengupta, *University  
of Michigan*

**Location:**  
Pipai Kave  
Ballroom

**Neutrophils and Phagocyte Functions:** Co-Chair: Krystal Colon-Rivera

**Obese, Diabetic Mice Demonstrate Immune  
Dysfunction and Renal Injury Following Trauma,** Lynn  
Frydrych, *University of Michigan* #94

**A High Content Microfluidic Assay for Leukocyte  
Activity,** Felix Ellett, *Massachusetts General Hospital* #95

**Inhibition of Human Neutrophil Inflammatory and  
Apoptotic Caspases Regulate IL-1 $\beta$  Production and  
Neutrophil Lifespan during *Toxoplasma gondii* Infection,**  
Tatiane S. Lima, *University of California, Irvine* #96

**Mechanisms of *H. pylori*-Induced Neutrophil Nuclear  
Hypersegmentation,** Stephanie Silva-Del Toro, *University  
of Iowa* #102

**Myeloid Cell Development, Differentiation, and Novel Functions:** Co-Chair: Lynn Frydrych

**Adipose-Resident Myeloid-Derived Suppressor Cells  
Modulate Immune Cell Homeostasis in Healthy Mice,**  
Katlin Stivers, *University of Louisville* #77

**Ramifications of a Shift in Myeloid Cell Phenotype  
Exacerbates Anemia of Critical Illness,** Kuzhali  
Muthumalaiappan, *Loyola University Chicago, Stritch  
School of Medicine* #78

**Enhanced Myelopoiesis and Aggravated Arthritis in  
*S100a8*-deficient Mice,** Joan Defrene, *Université Laval* #79

**Characterization of Low-Density Neutrophil  
Subpopulations in HIV-1-Infected Individuals,** Krystle  
Ong, *University of Alabama at Birmingham* #93

2018 Joint Meeting of the Society for Leukocyte Biology and  
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**Inflammatory Signaling in Leukocytes:** Co-Chair: Kuzhali Muthumalaiappan

**Platelets Influence Regulatory T Cell Proliferation and Activity during Sepsis**, Elisabetta Liverani, *Temple University* #31

**The Effect of Advanced Age and Alcohol Consumption on Alveolar Macrophage Response to *Streptococcus pneumoniae***, Holly Hulsebus, *University of Colorado* #41

**JAK3 Restrains *Porphyromonas gingivalis*-Induced Inflammatory Responses Through Ubiquitination-mediated Wnt3a Signaling**, Zhen Gu, *University of Louisville* #42

**Chronic Super-low Dose Lipopolysaccharide Exposure Skews Macrophages to a Non-resolving Low-grade Inflammatory State through Simultaneous Upregulation and Suppression of Pro-inflammatory and Homeostatic Mediators**, Allison Rahtes, *Virginia Tech* #44

**Leukocytes and Host Interactions:** Co-Chair: Elisabetta Liverani

**The Role of Hyperuricemia in Modulating Autophagy Flux and Inflammasome Activation during Bacterial Infection in Macrophages**, Susu Zughair, *College of Medicine, Qatar University* #8

**Identification of LMAN1 as a Receptor for House Dust Mite (HDM)**, Madelyn Miller, *Uni. of Central Florida* #16

**IL-10 Protects Against Neuron Death in *Staphylococcus epidermidis* Biofilm and Microglia Co-cultures**, Kathryn Woods, *University of Arkansas for Medical Sciences* #54

**S100A14 can Stimulate Activation of Immune Cells and Crosstalk between NK Cells and Monocytes**, Krystal Colon-Rivera, *The Wistar Institute* #67

**11:00 am – 1:00 pm MTTG (Members in Transition and Training) Workshop: State-of-the-Art High-Resolution Imaging Modalities** Pre-

registration required, Presented in partnership with the Histochemical Society



**Chairs:**

Stephania Libreros, *Harvard*;  
Shuvasree Sengupta, *University of Michigan*

**Location:**

Coyote/Buzzard/  
Eagle

**Two to Tango: Imaging and scRNA-seq to Study Niche-related Macrophage Heterogeneity**, Daniel Saban, *Duke University*

**Multiscale Imaging: From Super-resolution to Optical Imaging**, Margarida Barroso, *Albany Medical College*

**Images of Industry: Finding Microscopic Answers with Megapixels**, Robert Moody, *GE Healthcare*

**12:00 – 1:00 pm Lunch on your own**

**1:00 – 1:05 pm Presidents' Welcome**

**Chairs:**

Lee-Ann Allen, *SLB President*;  
Egil Lien, *IEIIS President*

**Location:**

Pipai Kave  
Ballroom

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**1:05 – 3:00 pm SLB and IEIS Junior Awards**

**Chairs:**  
Nick Lukacs, *University of Michigan*; Egil Lien, *UMASS*

**Location:**  
Pipai Kave  
Ballroom

**SLB Student Presidential Award Finalist**

1:05 pm  
**Micro Manipulator: *Yersinia pestis* Actively Alters the Neutrophil Degranulation Response**, Amanda Pulsifer, *University of Louisville* #1

1:20 pm  
**A Novel Role of p38 MAPK in the Retinoic Acid-induced Expression of CD103 in Human Dendritic Cells**, Mandi Roe, *Montana State Uni.* #2

1:35 pm  
**Gene Expression Profiling of Intima-infiltrating Macrophages in Early Human Atherosclerosis**, Charles Yin, *Western University* #83

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

1:50 pm  
**TAK1 Restricts Spontaneous Activation of the NLRP3 Inflammasome**, Prajwal Gurung, *University of Iowa* #25

2:05 pm  
**MAPK Regulation of the Resolution of Inflammation Following LPS-Induced Acute Lung Injury**, Matthew Long, *University of Washington* #26

**IEIS Young Investigator Awardees**

2:20 pm  
**Structural Basis for Lipopolysaccharide Capture and Extrusion by ABC Transporter LptB2FG**, Yanyan Li, *Harvard Medical School* #3

2:35 pm  
**Role of Lipid A Hydroxylation in *Pseudomonas aeruginosa* Persistence and Infection**, Courtney Chandler, *University of Maryland, Baltimore* #55

**3:00 – 3:15 pm Coffee Break, Mesquite Terrace & Akimel Foyer**

**3:15 – 4:15 pm SLB Mid-Level Award Talks**

**Chairs:**  
Lee-Ann Allen, *University of Iowa*;  
Nick Lukacs, *University of Michigan*

**Location:**  
Pipai Kave  
Ballroom

**3:15 pm Dolph Adams Awardee**  
***Toxoplasma gondii* Induces IL-1 $\beta$  Production and Pyroptosis-independent Release from Primary Human Monocytes through the Syk Signaling Pathway**, Melissa Lodoen, *UC Irvine* #24

**3:45 pm Jeanette Thorbecke Awardee**  
**Neutrophil-specific Knockout Demonstrates a Role for Mitochondria in Regulating Neutrophil Motility in Zebrafish**, Qing Deng, *Purdue University* #82

**4:15 – 5:00 pm IEIS Senior Level Awards**

**Chair:**  
Egil Lien, *UMASS*

**Location:**  
Pipai Kave  
Ballroom

**4:15 pm Alois H. Nowotny Award**  
Alison Scott, *Uni. of Maryland*

**4:30 pm Frederick B. Bang Award**  
Chris Whitfield, *Uni. of Guelph*

**4:45 pm Sheldon E. Greisman Award**  
Andrei Medvedev, *posthumous*

**5:00 – 5:15 pm Comfort Break, Mesquite Terrace & Akimel Foyer**

2018 Joint Meeting of the Society for Leukocyte Biology and  
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**5:15 – 6:15 pm SLB Legacy Keynote Lecture**

*SLB Legacy Awardee*

**More than a License to Kill: The Many Roles of the  
Leukocyte NADPH Oxidase**

Mary Dinanuer, Washington University in St. Louis

**Chair:**

Lee-Ann Allen, *University of  
Iowa*

**Location:**

Pipai Kave  
Ballroom

**6:30 – 8:30 pm Opening Reception, Mesquite Terrace & Akimel Foyer**

**Monday, October 15<sup>th</sup>**

**Registration**

8:00 am – 5:00 pm  
Akimel Foyer

**Speaker Ready Room**

8:00 am – 5:00 pm  
Thunder 1

**Exhibits**

8:00 am – 5:00 pm  
Akimel Foyer

**7:00 – 9:00 am**

**Professional Development Workshop  
Breakfast: Team Science  
Coyote/Buzzard/Eagle**

Chair: Shannon Wallet, *East Carolina University*

Featuring: Kevin Wooten

Team Science, it's not just for trainees! Topics  
include Team Science definition, modeling, and  
dynamics. This session will benefit attendees at  
all career levels and includes experiential  
exercises. *Pre-registration required*

OR

**8:00 – 9:00 am**

**Networking Breakfast**

*Mesquite Terrace & Akimel Foyer*

Enjoy a continental breakfast while networking with  
fellow attendees.



Poster Presenters – Be sure to collect lunch at  
11am before heading to designated poster boards  
for your formal presentation.



**9:00 – 9:30 am IEIIS Member Business Meeting, Pipai Kave Ballroom**

Chaired by Egil Lien, *UMASS*, join fellow IEIIS members to learn the latest updates from the society.

**9:30 – 11:00 am Plenary II: Myeloid Cell  
Development, Differentiation, and Novel  
Functions**

**Chairs:**

Susu Zughaier, *Qatar College of  
Med.*; Robert Clark, *UTHSCSA*

**Location:**

Pipai Kave  
Ballroom

9:30 am

**TLR Signaling, Macrophage  
Development, and  
Macrophage Activation  
Syndrome**, Jessica  
Hamerman, *Benaroya  
Research Institute*

9:50 am

**Dendritic Cell  
Development and  
Function**, Ken Murphy,  
*Washington University in  
St. Louis*

10:10 am

**Monocyte Heterogeneity  
and Origins**, Helen  
Goodridge, *Cedars Sinai*

10:30 am

**The Role of Gasdermin D  
in IL-1 beta Production by  
Neutrophils**, Eric  
Pearlman, *University of  
California, Irvine*

11:00 am – 1:00 pm

Poster Session I Lunch, Akimel 3/4

Enjoy lunch while browsing the **odd** numbered poster presentations

1:00 pm – 2:30 pm

Concurrent Sessions 1 & 2

### Concurrent Session 1: Leukocytes in Immune Privilege Sites

**Chairs:** Darren Lee, *Uni. of Oklahoma Health Sci. Center*; Catherine Ptaschinski, *Uni. of Michigan*

**Location:** Pipai Kave Ballroom

#### Featured Speakers:

1:00 pm **Neuroprotective Specialization for Microglia in Degenerative Diseases of the Retina**, Daniel Saban, *Duke University School of Medicine*

1:20 pm **Obesity and Autoimmune Uveitis**, Darren Lee, *University of Oklahoma Health Sciences Center*



#### Selected Talks:

1:40 pm **The Early Expansion of Anergic NKG2A<sup>pos</sup>/CD56<sup>dim</sup>/CD16<sup>neg</sup> NK Represents a Therapeutic Target in Haploidentical Haematopoietic Stem Cell Transplantation**, Domenico Mavilio, *University of Milan* #50

1:55 pm **The Dark Side of a Commensal: A Commensal Bacterium Precipitates Ocular Surface Inflammation in a Model of Muckle-Wells Syndrome**, Rachel Caspi, *NIH, NEI* #51

2:10 pm **Macrophage-derived Tgf- $\beta$  Drives the Expansion of Tolerogenic CD103<sup>int</sup> DCs in the Lungs of Neonatal Mice**, Aaron Silva Sanchez, *University of Alabama at Birmingham* #52

### Concurrent Session 2: Best of JLB and Innate Immunity

**Chairs:** Luis Montaner, *Journal of Leukocyte Biology*; Otto Holst, *Innate Immunity*

**Location:** Akimel 1/2

#### Featured Speakers:

1:00 pm **Platelets at the crossroads of NETs**, Mirta Schattner, *Instituto de Medicina Experimental (IMEX) (Journal of Leukocyte Biology)*

1:20 pm **The Interrelationship between Phagocytosis, Autophagy and Formation of Neutrophil Extracellular Traps Following Infection of Human Neutrophils by Streptococcus pneumoniae**, Tom Evans, *University of Glasgow (Innate Immunity)*

#### Selected Talks:

1:40 pm **Immune Triage: Prioritization of the Innate Immune Response when Faced with Multiple Simultaneous Insults**, Amanda Jamieson, *Brown University* #84 (SLB Women & Diversity Paper of the Year Awardee)

2:00 pm **lincRNA-EPS and lincRNA-Cox2 Regulate Expression of Inflammatory Cytokines in Macrophages and Mice Treated with TLR2 and TLR4 Agonists or during *Klebsiella pneumoniae* Infection, but are Dispensable for Endotoxin Tolerance**, Federica Agliano, *University of Connecticut Health Center* #27 (IEIS Theresa L. Giovannini Awardee)

OR

2:30 – 3:00 pm Coffee Break, Mesquite Terrace & Akimel Foyer

OR

2:30 – 3:00 pm Coffee with the JLB EIC, Quail

Meet the *Journal of Leukocyte Biology* Editor-in-Chief, Luis Montaner, during this special coffee break. Discuss your manuscript ideas and learn about the submission process.

**3:00 pm – 4:30 pm      Concurrent Sessions 3 & 4**

**Concurrent Session 3: Inflammatory Signaling in Leukocytes**

**Chairs:** Jonathan Kagan, *Boston Children's Hosp., Harvard Med. Schl*; Jamie Sturgill, *Uni. of Kentucky*

**Location:** Pipai Kave Ballroom

**Featured Speakers:**

3:00 pm **Initiation and Regulation of Innate Immunity**, Jonathan Kagan, *Boston Children's Hospital, Harvard Medical School*

3:20 pm **Infectious Models Reveal a Unique Role for Caspase-7 after Cytotoxic Lymphocyte Attack**, Ed Miao, *University of North Carolina School of Medicine, Chapel Hill #116*

**Selected Talks:**

3:40 pm **Pellino-1 Promotes Toll-like Receptor-dependent Responses to *Mycobacterium smegmatis***, Federica Agliano, *University of Connecticut Health Center #28*

3:55 pm **Toll-like Receptor-10 is a Novel Regulator of Immune Responses in Human Plasmacytoid Dendritic Cells**, Patricia Fitzgerald-Bocarsly, *Rutgers New Jersey Medical School #29*

4:10 pm **TLR8-dependent Innate Recognition and inflammasome activation by Methanogenic Archaea in Human Phagocytes**, Holger Heine, *Research Center Borstel - Leibniz Lung Center #30*

OR

**Concurrent Session 4: Neutrophils and Phagocyte Functions**

**Chairs:** Sergio Grinstein, *University of Toronto*; Kari Ann Shirey, *University of Maryland*

**Location:** Akimel 1/2

**Featured Speakers:**


3:00 pm ***F. tularensis* BLPs and TLR1 Regulate Human Neutrophil Lifespan**, Lee-Ann Allen, *University of Iowa, Carver College of Medicine*

3:20 pm **The Cytoskeleton and the Pericellular Coat Dictate the Responsiveness of Phagocytic Receptors**, Sergio Grinstein, *University of Toronto*

**Selected Talks:**

3:40 pm **Extracellular Adenosine Enhances the Ability of Neutrophils to Kill *S. pneumoniae* by Blunting IL-10 Production**, Elsa Bou Ghanem, *University at Buffalo #85*

3:55 pm **Targeting ADAM17 with a mAb as a Potential Therapeutic Intervention in Sepsis**, Hemant Mishra, *University of Minnesota #86*

4:10 pm **The Nucleation Promoting Factor Wiskott-Aldrich Syndrome Protein and Scar Homolog (WASH) Differentially Regulates Granule Subsets Secretion and the Oxidative Response in Neutrophils**, Sergio Catz, *Scripps Institute #87* 

**4:30 – 5:00 pm    Coffee Break, Mesquite Terrace & Akimel Foyer**

OR

**4:30 – 5:00 pm    Coffee with the Innate Immunity EIC, Quail**

Meet the *Innate Immunity* Editor-in-Chief, Otto Holst, during this special coffee break. Discuss your manuscript ideas and learn about the submission process.



**2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society**

**5:00 – 6:30 pm Plenary III - Metabolism &  
Physiology in Inflammation and Immunity**


**Chairs:**  
Holger Heine, *Research Center  
Borstel*; Ruth Montgomery, *Yale  
University*

**Location:**  
Pipai Kave  
Ballroom

5:00 pm  
**Host-microbe Interactions:  
Harnessing Co-evolution  
to Treat Disease**, Janelle  
Ayres, *Salk Institute*

5:20 pm  
**Fueling Phagocyte  
Functions**, Daniel McVicar,  
*NIH/NCI*

5:40 pm  
**Innate Immune  
Recognition and Signaling  
in Drosophila**, Neal  
Silverman, *University of  
Massachusetts Medical  
School*

6:00 pm  
**Class IIa Histone  
Deacetylases are  
Molecular Links between  
Regulated Cell Metabolism  
and Inflammatory Outputs  
of TLR-Activated  
Macrophages**, Matthew  
Sweet, *The University of  
Queensland #115* 

**7:00 – 9:00 pm Social Mixer, Akimel Lawn**

**Tuesday, October 16<sup>th</sup>**

**Registration**  
8:00 am – 3:30 pm  
Akimel Foyer

**Speaker Ready Room**  
8:00 am – 3:30 pm  
Thunder 1

**Exhibits**  
8:00 am – 3:30 pm  
Akimel Foyer

**7:00 – 9:00 am**  
**Women & Diversity Workshop**  
**Breakfast: Effectively Communicating  
Science: Getting the Word Out**  
*Coyote/Buzzard/Eagle*

Chair: Amanda Brown, *Johns Hopkins University*  
Featuring: Lisa Borghesi and Cynthia Leifer  
Communication of research findings is at the  
core of what a scientist does. Come learn how  
to communicate your science to policy makers  
and the public. *Pre-registration required*

**OR**

**8:00 – 9:00 am**  
**Networking Breakfast**  
*Mesquite Terrace & Akimel Foyer*  
Enjoy a continental breakfast while networking with  
fellow attendees.



Visit the exhibitors, have your “passport” initialed,  
and drop it off at the reg desk. You’ll be entered  
into a drawing for a **WonderBoom** speaker!



**9:00 – 9:30 am SLB Member Business Meeting, Pipai Kave Ballroom**

Chaired by Lee-Ann Allen, *University of Iowa*, and Nick Lukacs, *University of Michigan*, join fellow SLB members for  
award announcements and to learn the latest updates from the society.

**9:30 – 11:00 am Plenary IV - The Microbiome in  
Inflammation and Immunity**

**Chairs:**

Anne Pereira, *OUHSC*; Jason  
Barker, *University of Iowa*

**Location:**

Pipai Kave  
Ballroom

9:30 am  
**Commensal Fungal  
Metabolism and Host  
Immunity**, Yan Shi,  
*Tsinghua University*

9:50 am  
**Host Immunity to  
Commensal Fungi**, David  
Underhill, *Cedars Sinai*

10:10 am  
**Microbial Dysbiosis Drives  
Age-associated  
Inflammation which  
Impairs Myeloid  
Development**, Dawn  
Bowdish, *McMaster  
University*

10:30 am  
**Mechanisms of Chronic  
Inflammation Associated  
with Microbial Dysbiosis in  
a Rhesus Macaque Model  
of Environmental Enteric  
Disease**, Ilhem Messaoudi,  
*UCI*

**11:00 am – 1:00 pm Poster Session II Lunch, Akimel 3/4**

Enjoy lunch while browsing the even numbered poster presentations

**1:00 – 2:30 pm Concurrent Sessions 5 & 6**

**Concurrent Session 5: Ligands of  
Innate Immunity: Structure & Function**

**Chairs:** Bob Ernst, *University of Maryland*; Michael  
Shehat, *University of Central Florida*

**Location:** Pipai Kave Ballroom

**Featured Speakers:**

1:00 pm **Recent Examples of Structure and  
Structure-function Analysis of LPS and Lipid A**,  
Otto Holst, *Research Center Borstel*

1:20 pm **Structure Matters – Modification of the  
Lipid A Component of Lipopolysaccharide (LPS)  
LPS Alters Host Immune Responses**, Bob Ernst,  
*University of Maryland*

**Selected Talks:**

1:40 pm **Synthesis and Function of Symbiotic  
Bacterial Lipopolysaccharide Partial Structures**,  
Atsushi Shimoyama, *Osaka University* #56

1:55 pm **The TLR4 Agonist Monophosphoryl Lipid  
A Induces Dynamic Reprogramming of  
Macrophage Metabolism for Enhancement of  
Antimicrobial Functions and Infection Resistance**,  
Julia Bohannon, *Vanderbilt* #57

2:10 pm **A Distinct Late Acyl Transferase  
Contributes to Synthesis of KDO-containing  
Lipopolysaccharide in *Francisella***, Jason Barker,  
*University of Iowa* #58

OR

**Concurrent Session 6: Host Receptors  
and Microbes**

**Chairs:** Trude Flo, *Norwegian Univ. of Science and  
Technology*; Hemant Mishra, *Univ. of Minnesota*

**Location:** Akimel 1/2

**Featured Speakers:**

1:00 pm **Single-cell Dynamics of Pyroptosis in M.  
tuberculosis Infected Macrophages**, Trude Flo,  
*Norwegian University of Science and Technology*

1:20 pm **Mechanisms Controlling Innate Immune  
Responses to Nucleic acids**, Kensuke Miyake,  
*University of Tokyo, Institute of Medical Science*

**Selected Talks:**

1:40 pm **Differential Signaling through TLR7 or  
TLR8 Determines the Phenotype of Human  
Monocytes during RNA Virus Infection**, Margarita  
Dominguez-Villar, *Yale University* #4

1:55 pm **Inflammasomes Confer Protection via IL-  
18 and Pyroptosis, and are Negatively Regulated  
by IFN- $\gamma$ -dependent Nitric Oxide during *Brucella*  
Infection**, Jerod Skyberg, *University of Missouri* #5

2:10 pm **Novel Role of Gastric Releasing Peptide  
(GRP)-Mediated Signaling in the Host Response to  
Influenza Infection**, Kari Ann Shirey, *University of  
Maryland School of Medicine* #6

**2:30 – 3:30 pm Closing Reception, Mesquite Terrace & Akimel Foyer**

**3:30 – 5:00 pm Plenary V - Inflammation and  
Cell Death in Host-pathogen Interactions**

**Chairs:**

Lou Justement, *UAB*; Amy Hise,  
*Case Western Reserve Uni.*

**Location:**

Pipai Kave  
Ballroom

3:30 pm

**Detecting and Responding  
to Microbial Viability**, Julie  
Blander, *Weill Cornell  
Medicine*

3:50 pm

**Bacterial Type III Secretion  
System Effectors Regulate  
of IL-1b Production and  
Cell Death**, Egil Lien,  
*University of  
Massachusetts Medical  
School*

4:10 pm

**Sensing and Reacting to  
Pathogens at the Skin  
Barrier**, Gabriel Nunez,  
*University of Michigan*

4:30 pm

**Novel Strategies for  
Targeting Innate Immune  
Responses to Influenza**,  
Stefanie Vogel, *University  
of Maryland School of  
Medicine*



## Special Opportunity with *JLB*!

*Be a part of a Special JLB Dedicated SLB/IEIS 2018 Meeting Issue.*

The Journal of Leukocyte Biology will publish a Special Focus issues with articles related to the SLB/IEIS 2018 meeting, both review papers ("overviews") and original investigations. The articles will be either invited or volunteered by the meeting participants, and all will be peer-reviewed according to the high standards of the JLB. The schedule for submissions is below...

### 2018 Meeting Special Issue for publication October 2019

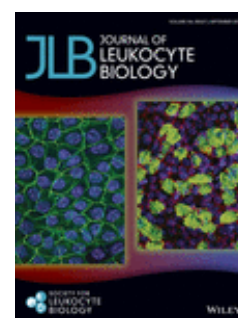
First submission is due by Feb 15, 2019

Review by: Apr 1, 2019

Revised papers will be due by May 15, 2019

Articles to be reviewed by June 15, 2019

Articles ACCEPTED by July 1, 2019 to publish **October 2019**





## Poster Program Summary

### **Host Receptors and Microbes**

Abstracts 1 – 16

### **Inflammation and Cell Death in Host-pathogen Interactions**

Abstracts 17 – 23

### **Inflammatory Signaling in Leukocytes**

Abstracts 24 – 49

### **Leukocytes in Immune Privilege Sites**

Abstracts 50 – 54

### **Ligands of Innate Immunity: Structure & Function**

Abstracts 55 – 69

### **Metabolism & Physiology in Inflammation and Immunity**

Abstracts 70 – 75

### **Myeloid Cell Development, Differentiation, and Novel Functions**

Abstracts 76 – 81

### **Neutrophils and Phagocyte Functions**

Abstracts 82 – 107

### **The Microbiome in Inflammation and Immunity**

Abstracts 108 – 109

### **Miscellaneous**

Abstracts 110 – 114

### **Late Breaking Research**

Abstracts LB1 – LB19



### **Poster Schedule**

**Set-up begins:** Sunday, October 14<sup>th</sup> 12 pm

**Remove by:** Tuesday, October 16<sup>th</sup> 3:30pm

#### **ODD Numbered Abstracts - Session I**

Monday, October 15<sup>th</sup>, 11:00 am – 1:00 pm

#### **EVEN Numbered Abstracts - Session II**

Tuesday, October 16<sup>th</sup>, 11:00 am – 1:00 pm





## 2018 Author Index

*The number following the name refers to the abstract number.*

### A

Abdel-Mohsen, M., 108  
Adkins, J., LB5  
Aglano, F., 28, 27  
Al-Awad, D., 8  
Albayati, S., 31  
Albina, J., 84  
Aldrich, A. L., 13, 72, 11, 75  
Al-Emadi, N., 8  
Allen, L. H., 102, 19, 20  
Alothaimeen, T., 80  
Alqarzaee, A., 72  
Al-Thani, A., 8  
Alvarez, A., 109  
Andersen, G., 92  
Aoudjit, F., 79  
Aranjuez, G. F., LB1  
Attri, K., 75  
Audley, J., 68  
Avner, B., 17  
Ayala, A., 22  
Aygun, A., 49  
Azadi, P., 68  
Azodi, E., LB17  
Azzoni, L., 108

### B

Lodoen, M., 96  
Bagaitkar, J., 106  
Bala, S., 39  
Bang, C., 30  
Barker, J. H., 58  
Barr, T., 109  
Barra, L., 83

Barroso, M., LB18  
Bashir, R., 118  
Beare, J. E., 77  
Beaver, M., 18, 54  
Berg, L., 68  
Bermick, J. R., 110, 71  
Bian, G., 94  
Biggs, M., LB8, LB12  
Billiar, T., 60  
Bimczok, D., 2, LB15  
Biron, B., 22  
Blanco, J. C., 6  
Blayney, D., 89  
Bley, M., LB6  
Blobel, C., LB9, LB12  
Boe, D., 98, 41  
Bohannon, J. K., 57, 62, 61  
Bosch, M., 72, 11, 75  
Bou Ghanem, E., 85  
Bradford, E., 104  
Bronich, T. K., 75  
Brown, C. R., 91  
Brown, A., 109  
Bruinen, A. L., 12  
Bukong, T., 100

### C

Cadnum, J., LB17  
Calvi, M., 50  
Cannon, A., 113  
Cao, L., 82  
Cao, M., 46  
Carlson, R. W., 68  
Carpenter, S., 27  
Caspi, R. R., 51  
Cassat, J., 72

Castagna, L., 50  
Catalano, D., 100  
Catz, S., 87  
Cervelli, J., LB14  
Cesaro, A., 79  
Cháñez-Paredes, S., 88  
Chandler, C., 55, 63  
Chang, T., 69  
Chaudari, S., 72  
Chen, Y., 22  
Chen, L., 37, 42  
Chen, J., LB2  
Chiang, N., 36  
Chilton, P. M., 77  
Cho, Y., 100  
Choudhry, M., 112, 113  
Chrzanowska-Wodnicka, M., 97  
Chung, C., 22  
Chweih, H., 47  
Colon-Rivera, K., 67  
Composto, G. M., LB16  
Connelly, A., 93  
Conrad, D., 33  
Conran, N., 47  
Costa, F., 47  
Crane, M. J., 84  
Croft, A., 103  
Curtis, B. J., 98, 41  
Cuttitta, F., 6

### D

Dadelahi, A., 5  
Dale, J., 77  
Das Gupta, K., 115  
Davis, M., 93, 99

Dayoub, A. S., 64  
de Marcken, M., 4  
Deb, P., 29  
Defrene, J., 79  
Delano, M. J., 94  
Demuth, D., LB13  
Den Dekker, A., 110  
Deng, Q., 82  
Deng, M., 60  
Desousa, J., LB19  
Dhaliwal, K., 4  
Dhyani, A., 93  
Di Lorenzo, F., 56  
Di Vito, C., 50  
Dinauer, M., 105  
Ding, X., 113  
Dixit, G., LB8  
Dominguez-Villar, M., 4  
Dominical, V., 47  
Dominique-Filippi, M., 97  
Donskey, C., LB17  
Duan, B., 13  
Duan, X., 37, 42

### E

Eberhardt, J., 113  
Eddy, W., 26  
Eicher, S. D., 43  
Elesela, S., 70  
Ellett, F., 95  
Elliot, D., LB8  
Ellis, S., 12  
Ensley, H. E., LB4  
Ernst, R. K., 12, 55, 63  
Ette, E., 89

**2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society**

**F**

Fairlie, D., 115  
Feng, Q., 69  
Fensterheim, B., 57, 62, 61  
Fitzgerald-Bocarsly, P., 29  
Fonseca Aguilar, W., 111  
Fortin, P., 79  
Frydrych, L. M., 94  
Fujimoto, Y., 56, 69  
Fujimura, K., 111  
Fukase, K., 56, 69  
Fults, J. B., 62  
Fuss, I. J., 51

**G**

Gallagher, K., 110  
Gallin, J., 68  
García-Ponce, A., 88  
Garcia, F., 47  
Garofalo, F., 117  
Geesala, R., LB8  
Gillis, S., 84  
Goedken, M., LB14  
Goldbach-Mansky, R., 51  
Gong, K., 26  
Goodlett, D., 63  
Gov, L., 24  
Gow, A., LB14  
Goyert, S. M., 59  
Grant, K., 40  
Graves, B., LB4  
Gray, C. C., 22  
Greenberg, D., 68  
Gries, C. M., 72  
Gruber, E., 49  
Gu, Z., 42  
Guerrero-Fonseca, I. M., 88  
Guo, Y., 61  
Guo, J., 81  
Gurung, P., 25, LB8

**H**

Hamade, H., 74  
Harberts, E. M., 63  
Harika, V., 31  
Hasan, S., 78  
Hasegawa, T., 45  
Hashimi, M., 7  
Hassan, U., 118  
Haughan, J., LB2  
Hayami, R., 45  
Heck, D., LB14, LB16  
Heeren, R. M., 12  
Heim, C. E., 72, 11, 75  
Heine, H., 30, 65  
Heiss, C., 68  
Heit, B., 83  
Hel, Z., 93  
Hendrickson, S., 33  
Hendrikson, S., 109  
Henry, W. L., 84  
Hernandez, A., 62  
Hess, N., 29  
Hessian, P., 48  
Hilliard, K., 91  
Hise, A. G., LB17  
Hiserodt, E., 108  
Holland, S. M., 68  
Hook, J., 46  
Hopke, A., 101  
Hoying, J. B., 77  
Huang, T., 9  
Huang, L., 89  
Huang, G., 105  
Huffnagle, G. B., 111  
Huijbregts, R., 93  
Hullsiek, R., 86  
Hulsebus, H. J., 98, 41

**I**

Ibraheem, W., 21  
Idol, R., 105  
Ilangumaran, S., 10  
Ingram, B., LB11  
Inoue, N., 45

Irimia, D., 101, 95, 107  
Issuree, P. D., LB8, LB9  
Iyer, A., 115

**J**

Jacobsen, E., 81  
Jalali, F., 95  
Jamieson, A., 84  
Javmen, A., 34  
Jeffries, J., 82  
Jewett, M. W., LB1  
Jiang, Z., LB2  
Jiao, Y., LB4  
Johnson, J. L., 87  
Jones, M. M., 21  
Joseph, L. B., LB16  
Joshi, H. S., 38

**K**

Kabayama, K., 69  
Kahlenberg, K., 92  
Kametani, Y., 69  
Kanneganti, T., 25  
Karlinsey, K., 27, 28  
Karmakar, M., 35  
Karpf, A., 72  
Kasus-Jacobi, A., 66  
Kaufman, J. W., 58  
Kay, J. G., 103  
Kielian, T., 11, 13, 72, 75  
Kim, K., LB10  
Kim, H., LB16  
Kinkead, L., 19  
Kinnare, N., 46  
Kiyono, H., 56  
Klinkebiel, D., 72  
Kodys, K., 100  
Kovacs, E. J., 98, 41  
Kozyr, A., 68  
Krauth, D. M., 106  
Krautwurst, D., 92  
Kruppa, M. D., LB4, LB5  
Krysa, S., 19  
Kumagai, Y., 90

Kumar, S., 70  
Kunisawa, J., 56  
Kunkel, S., 110  
Kuprys, P., 113  
Kuss, M., 13  
Kuznetsova, V., 93

**L**

Lacey, C., 5  
Lachhab, A., 79  
LaFratta, M., 16  
Lai, W., 6  
Lakowicz, J. R., 34  
Lakshmikanthan, S., 97  
Lalley-Chareczko, L., 108  
Lambrecht, N., 71  
Lamont, R. J., 106, 15  
Land, C. A., 66  
Lang, R., 92  
Larrocha, P. S., 78  
Laskin, D., LB14, LB16  
Laskin, J., LB14, LB16  
Laurell, T., 117  
Lawrenz, M. B., 1  
Lee, J., 85  
Lee, D., 53  
Lee, Y., LB10  
Leifer, C., 49  
Lenschof, A., 117  
Leong, J. M., 85  
Li, Y., 3  
Li, L., 104, 44  
Li, X., 112  
Libreros, S., 36  
Lien, E., 23  
Liles, W., 26  
Lima, T., 24, 96  
Lin, C., 69  
Liu, T., LB11  
Liverani, E., 31  
Lodoen, M. B., 24  
Lombard, D. B., 70  
Long, M., 26  
Long, D., LB11  
Lowe, P., 100



**2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society**

Lowman, D. W., LB4  
Luan, L., 57, 62, 61  
Luck, M., 112  
Lugli, E., 50  
Lukacs, N., 70, 71, 110, 111  
Lund, F., 52  
Luo, J., 106  
Lv, L., 42  
Lynch, S., 111  
Lynn, K., 108

## M

Ma, J., 86  
Ma, Z., LB4  
MacNamara, K., LB18  
Maddi, A., 21  
Malaviya, R., LB14  
Malech, H. L., 68  
Malinczak, C., 111  
Maloney, J., LB18  
Manabe, Y., 69  
Manicone, A., 26  
Mansour, M., 101  
Marand, A. L., 95  
Marcenaro, E., 50  
Marchant-Forde, J., 43  
Marcinek, P., 92  
Maretzky, T., LB8, LB9, LB12  
Markert, C., 73  
Mattapallil, M. J., 51  
Mavilio, D., 50  
Mayerholtz, D., LB8  
Mayhue, M., 10  
Mazza, E. M., 50  
McCall, C., LB11  
Medvedev, A., 28, 27  
Melendez-Ferro, M., 93  
Mendez, D., 86  
Mendonça, R., 47  
Menendez, A., 10  
Messaoudi, I., 109, 40  
Metcalfe, S. L., 103  
Metkar, S., 59  
Meyers, A. K., LB11

Meza Perez, S., 52  
Miao, E. A., 116  
Michelotti, E. F., LB3  
Michels, K. R., 71  
Michelsen, K., 74  
Miller, M. H., 16  
Millier, M. J., 48  
Min, A., LB7  
Miralda, I., 15  
Mishra, H. K., 86, LB3  
Mitchell, W. J., 5  
Miyamoto, A., 69  
Mizote, K., 56  
Mohanlal, R., 89  
Molinaro, A., 56  
Momen-Heravi, F., 39  
Monfregola, J., 87  
Monroe, I., LB15  
Montaner, L. J., 108, 67  
Moreland, J. G., 46  
Morley, S., 38  
Morris, S. B., 70  
Mounzer, K., 108  
Muhammad, F., 53  
Mulder, R., 80  
Murakami, T., 90, 114  
Murphy, M., 28  
Muszyński, A., 68  
Muthumalaiappan, K., 78

## N

Nagaoka, I., 90, 114  
Nagarkatti, M., 76  
Nagarkatti, P., 76  
Nagase, T., 45  
Nagpal, D., 83  
Najarro, K. M., 98, 41  
Nakao, K., 45  
Nam, C., 59  
Narayanan, S., 70  
Nauseef, W. M., 17  
Nazaroff, C. D., 81  
Neamah, W. H., 76  
Nguyen, C., 14  
Nimura, Y., 69

Niyonsaba, F., 114  
Norris, P., 36

## O

Ochkur, S., 81  
Ogenstad, S., 89  
Oh, S., 14  
Ohlsson, P., 117  
Ohshima, S., 69  
O'Malley, A., 46  
Ong, K., 93  
Opene, B., 63  
Orkhis, S., 10  
Orning, P., 23  
Overton, E., 93  
Oyler, B. L., 63  
Ozment, T. R., LB5  
Ozuna, H., LB13

## P

Pagé, N., 79  
Pal, H., 93  
Panasiewicz, M., 103  
Pandori, W., 24  
Patel, M., 6  
Patil, N. K., 57, 62, 61  
Pattabiraman, G., 28  
Pelletier, M., 79  
Pereira, H., 66  
Pore, N., LB3  
Pradhan, K., 44  
Prichard, A. S., 20  
Ptaschinski, C., 111  
Pu, Q., 9  
Pulsifer, A. R., 1

## Q

Qureshi, N., LB19

## R

Rahtes, A., 44  
Ramadass, M., 87

Ramanathan, S., 10  
Randall, T. D., 52  
Rank, M., 81  
Rasky, A., 111  
Raychaudhuri, K., 51  
Reddy, B., 118  
Reeves, S., 1  
Reich, J., 90, 114  
Ren, J., 37, 42  
Rhoades, N. S., 109  
Rice, P. J., LB4  
Roberto, A., 50  
Robinson, M., LB2  
Roe, M. M., 2, LB15  
Roggensack, S., 85  
Rosenberg, A., 52

## S

Saad, S., 47  
Sack, M., LB6  
Schaller, M., 110  
Schanz, W., LB8, LB12  
Scheding, S., 117  
Schmitz, R., 30  
Schnoor, M., 88  
Schutz, M. M., 43  
Schwartz, J. T., 19  
Scott, M. J., 60  
Scott, A. J., 63, 12  
Seaver, K., 80  
Sebrell, T., 7  
Serhan, C., 36  
Shakespeare, M., 115  
Sharma, P., 14  
Shehat, M. G., 32  
Sherwood, E., 57, 62, 61  
Sherwood, T., LB15  
Shibata, N., 56  
Shiloach, J., 68  
Shimoyama, A., 56  
Shin, M., LB7, LB10  
Shirey, K., 6  
Silswal, N., LB19  
Silva, E., 43  
Silva Sanchez, A., 52



**2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society**

---

Silva-Del Toro, S. L.,  
102

Silver, J., 59  
Singh, S., 29  
Singh, P., 75  
Siwapornchai, N., 85  
Skar, G., 18, 54  
Skurk, T., 92  
Skurski, J., LB8, LB9  
Skyberg, J. A., 5  
Slifka, M., 109  
Snowden, J., 54  
St. Leger, A. J., 51  
Staiger, C., 82  
Stamps, D., 74  
Stamps, J., 74  
Stivers, K. B., 77  
Stock, A. J., 66  
Stone, S. L., 52  
Stothers, C. L., 61  
Strober, W., 51  
Stull, C., 40  
Sturgill, J. L., 33  
Sugiyama, T., 45  
Sunday, M., 6  
Sunil, V., LB14  
Sur Chowdhury, C., 97  
Sureshchandra, S., 40  
Suzuki, K., 114  
Swain, S., 2  
Sweet, M. J., 115  
Szabo, G., 100  
Szasz, T. P., 38  
Szmackinski, H., 34

**T**

Takahashi, K., 45  
Tamura, H., 90, 114  
Tapping, R., 29  
Tardif, M., 79  
Tchalla, E., 85  
Tessier, P., 79  
Thomas, V., 72  
Thomas, L., 74  
Tigno-Aranjuez, J., 32,  
16  
Todd, E. M., 38  
Tomescu, C., 67  
Toshchakov, V. Y., 34  
Tsygankov, A. Y., 31  
Tweedie, E. J., 83

**U**

Ueda, H., 45  
Underhill, D., 14  
Urbansky, A., 117  
Uriarte, S. M., 1, 15,  
LB13  
Uto, T., 56

**V**

Vaccharajani, V., LB11  
Vadillo, E., 88  
Vanyo, S., 21  
Vargas-Robles, H., 88  
Vashishta, A., 15  
Vayas, K., LB14  
Vierbuchen, T., 30  
Visser, M. B., 21  
Vogel, S., 6  
Volk, J., 26  
Vu, T., LB12

**W**

Walcheck, B., 86, LB3  
Walter, N., 40  
Wang, H., 37, 42  
Ward, P. A., 94  
Ward, J., LB18  
Weiss, J., 58  
White, K., 118  
Whitmore, L., 102, 20  
Williams, D. L., LB4, LB5  
Woods, K., 54  
Wright, B. L., 81  
Wright, J., LB5  
Wu, M., 9  
Wu, J., LB6

**X**

Xi, X., 75  
Xu, Y., 84  
Xu, J., 97

**Y**

Yamada, K. J., 11, 72,  
75  
Yang, C., 60  
Yerke, L. M., 21  
Yin, C., 83  
Yoo, D., 105  
Yoza, B., LB11

**Z**

Zaghi, E., 50  
Zamyatina, A., 65  
Zarembek, K., 68  
Zhang, J., 87  
Zhou, W., 82  
Zhu, R., 118  
Zhu, X., LB11  
Zughaier, S. M., 8

2018 Joint Meeting of the Society for Leukocyte Biology and  
the International Endotoxin and Innate Immunity Society



## Floorplan/Map

