

**53rd ANNUAL MEETING OF THE
SOCIETY FOR LEUKOCYTE BIOLOGY**

Host-Microbial Interactions in Health and Disease: The Good, the Bad and the Ugly

CHAIRS

Ilhem Messaoudi
University of California, Irvine

Louis Justement
University of Alabama

**Registration,
Abstract, and
Award Systems
Now Open!**

**September 30 –
October 3, 2020**
Marriott Waterfront
PORTLAND, OREGON



The Society for Leukocyte Biology is pleased to announce their 53rd annual meeting. The event is set to be held in Portland, Oregon, U.S.A. from September 30 through October 3, 2020. The theme is “*Host-Microbial Interactions in Health and Disease: The Good, the Bad and the Ugly*” and promises to integrate the interests of a wide scientific audience. The meeting will stimulate exciting interactions among the participants and provide a unique experience for researchers and clinicians from academia, government and industry.

FOR ADDITIONAL INFORMATION:

Society for Leukocyte Biology
Phone: 301-204-2233 - Fax: 833-790-3450
Email: meetings@leukocytebiology.org
Web Address: www.leukocytebiology.org

MEETING LOCATION:

The SLB 2020 meeting will be held in Portland, Oregon, U.S.A. at the Marriott Waterfront. Beautifully located on the water, and conveniently within walking distance to the downtown area, restaurants, shopping etc, the venue is welcoming for attendees from all over the globe. 9 miles from Portland International Airport (PDX) and on the train line, we are excited to meet in Portland this year. For information on local touring activities, refer to the Portland tourism website. Some highlights include Powell’s Books, Lan Su Chinese Gardens, Pittock Mansion, and Washington Park which provides beautiful walks and gardens.

ACCOMMODATIONS:

Accommodations for the 2020 meeting will be provided by the conference hotel, The Marriott Waterfront.

Portland Marriott Downtown Waterfront

1401 SW Naito Parkway
Portland, Oregon 97201 USA
+1 503-226-7600

SLB has secured a significantly reduced room rate for our guests at **\$189 USD per night**. The deadline to book at the group rate is September 8, 2020. Book through the meeting website <https://www.leukocytebiology.org/accommodations-and-travel>

SPECIAL NEEDS:

SLB does not discriminate on the basis of disabilities. If you require services or auxiliary aids mentioned in the Americans with Disabilities Act in order to fully participate in this activity, please contact SLB directly at meetings@leukocytebiology.org or call 301-204-2233.

CHILDCARE:

For attendees requiring childcare, there are several options listed on the meeting website. To make arrangements, contact the listed resources or the hotel Concierge. A quiet room close to the meeting sessions will be provided for nursing mothers to have a private location for use during the daytime sessions.

MEMBERSHIP:

Membership to SLB is open to individuals in related scientific fields. Take advantage of the meeting registration discount and free abstract submission offered to SLB members and join or renew today! You must be a current member at the time of registration.

ABSTRACTS AND POSTERS:

All participants are highly encouraged to submit an abstract. Online abstract submissions will be accepted through July 9, 2020 with a late breaking abstract period in August 2020. You must register for the meeting prior to submitting an abstract. Abstracts submitted by July 9th will be considered for oral, poster, and poster flash talk presentations and are also eligible for award consideration. Late breaking abstracts will be considered for poster presentations only. To submit an abstract, register for the meeting online and then follow the links provided. Conference abstracts will be available to all participants as a PDF on the website and on the meeting app. There is a \$30 (regular) and \$50 (late breaking) abstract fee for non-members.

AWARDS:

SLB is pleased to offer a variety of award programs honoring, recognizing, and supporting investigators at various stages in their careers. Refer to <https://www.leukocytebiology.org/awards> to review the full list of opportunities and requirements. Apply during the abstract submission process.

- Dolph O. Adams Award
- G. Jeanette Thorbecke Award
- DEI* Paper of the Year
- Presidential Awards
- Travel Awards
- Early Career Faculty Travel Award
- Developing Nations Travel Award
- DEI* Travel Award

*DEI—Diversity, Equity, and Inclusion

DIVERSITY, EQUITY, INCLUSION, AND CODE OF CONDUCT

SLB is committed to providing a safe, productive and welcoming environment. All participants are expected to behave appropriately; respecting fellow attendees, presenters, sponsor representatives, volunteers, and staff. Discrimination, harassment, or bullying, in any form will not be tolerated. If you have questions about the expectations of conference behavior, please visit the full documentation of SLB Ethical Policies online (<https://slb.memberclicks.net/slb-ethical-policies>). Thank you for joining in these efforts to ensure a positive conference experience for everyone.

WEDNESDAY, SEPTEMBER 30, 2020

SLB MEMBER ORGANIZED SPECIAL INTEREST GROUP SATELLITE SESSIONS

1:00 – 4:00 PM

Innate Immune Training

CHAIRS: Julia Bohannon, *Vanderbilt University Medical Center*, and Liwu Li, *Virginia Tech*

- **Priming, Tolerance and Exhaustion Dynamics in Acute and Chronic Diseases**, Liwu Li, *Virginia Tech*
- **Innate Immune Training as an Approach for the Modulation of Sepsis and Septic Sequelae**, David Williams, *East Tennessee State University*
- **TLR Agonists Mediate Protection Against Severe Nosocomial Infections via Innate Immune Training**, Julia Bohannon, *Vanderbilt University Medical Center*
- **The Role of Mitochondrial Biogenesis, Irg1, and Itaconate in TLR4 Agonist-induced Innate Immune Training**, Naeem Patil, *Vanderbilt University Medical Center*
- **Modulation of Immune Tolerance Through Ubiquitination**, Jian Zhang, *University of Iowa School of Medicine*
- **Stimulating Pyruvate Dehydrogenase Complex Dampens Macrophage NLRP3 Inflammasome Activation by Enhancing TCA Cycle Anabolic Bioenergetics**, Xuewei Zhu, *Wake Forest School of Medicine*
- **Effects of Trained Immunity in Intergenerational Inheritance and Resistance to Infections**, Jorge Dominguez, *Radboud University Medical Center*

Maladaptive Host-Pathogen Responses and Autoimmunity in Airways Diseases

CHAIRS: Lael Yonker, *Massachusetts General Hospital* and Balazs Rada, *University of Georgia, Athens*

- **Neutrophil Responses in Disease-Specific States**, Michael Mansour, *Massachusetts General Hospital*
- **Dysregulation of Macrophage Signaling in Cystic Fibrosis**, Emanuela Bruscia, *Yale School of Medicine*
- **Dissecting and Defining PMN Responses in Cystic Fibrosis**, Lael Yonker, *Massachusetts General Hospital*
- **Autoantibodies Target Multiple Components of Neutrophil Extracellular Traps in Cystic Fibrosis**, Ruchi Yadav, *University of Georgia, Athens*
- **Creating a Sanctuary: Pseudomonas and Autoimmunity in Cystic Fibrosis**, William Rigby, *Dartmouth Geisel School of Medicine*

SYMPOSIUM FOR CAREER DEVELOPMENT AND HANDS-ON OPPORTUNITY TO LEARN

12:50 – 8:30 PM

12:50 - 1pm	Welcome and Introduction , Chairs: Kate Martin, Domenico Mavilio, Shuvasree Sengupta, and Michael Schnoor
1 - 2pm	History of Host-Pathogen Interactions , P'ng Loke, <i>New York University</i>
2 - 2:30pm	Break/Networking
2:30 - 3:30pm	Panoramic view of Microbiome and History , Gabriel Nunez, <i>University of Michigan</i>
3:30 - 4:15pm	How to prepare for "Chalk Talk" portion of a job interview , Luis Montaner, <i>Wistar</i>
4:15 - 4:45pm	Break/Networking
4:45 - 5:30pm	Sequencing Techniques , Raphael Valdivia, <i>Duke University</i>
5:30 - 6:15pm	Bioinformatics , Stacey Wagner, <i>University of Oregon</i>
6:15 - 7:45pm	Dinner and Round table discussions
7:45 - 8:30pm	Flow Cytometry 2.0 towards Computational Analyses Techniques , Priyanka Balasubrahmanyam, <i>Stanford University</i>

SLB THINK TANK: BUILDING BRIDGES FOR UNDERGRADUATE IMMUNOLOGY RESEARCH

6:00 – 9:00 PM

Presentations and discussion of strategies, advice, and ideas for connecting institutions large and small to engage more undergraduates in immunology research. Chaired by Jean Scholz and Tiffany Frey

THURSDAY, OCTOBER 1, 2020

Poster Flash Talks

Selected abstracts by junior attendees providing short talks organized by topic. Check the box during abstract submission to be considered.

MTTG (Members in Transition and Training) Workshop: Science Illustrations: Telling Your Story Through Images

Organized by the SLB Members in Transition and Training Group

Sponsored by:
 THE HISTOCHEMICAL
SOCIETY

GLOBAL SCIENCE: Top Cited Authors in the Americas (North, Central, South America)



Gene X Environment Interactions Govern Gut Microbiome Effects on Autoimmune Diabetes

Jayne Danska, *Hospital for Sick Kids*

The Emerging Role of Glyco-Checkpoints in Cancer, Autoimmunity and Infection: The Sweet Side of Immunotherapy

Gabriel Rabinovich, *Institute of Biology and Experimental Medicine*



Neutrophils Cast NET Against the Parasite *Entamoeba histolytica*

Carlos Rosales, *Univ Nacional Autonoma de Mexico*

Poster Session Reception

Poster presentations during a mid-day session. Limited quantity lunch available on a first-come, first-serve basis.

PLENARY I: Welcome and Disruptions of Microbial Communities with Disease



Using Bugs as Anticancer Drugs: Effects of Attenuated *Salmonella* on Tumor Environment and Anti-tumor Immunity

Kendle Maslowski, *University of Birmingham*

The Virtues of Simplicity: Vaginal Microbiome, Host Inflammation and Reproductive Outcomes

Doug Kwon, *Harvard*



Uninvited Guests in Undisclosed Locations: Microbes and Their Metabolites in the Cystic Fibrosis Airways

Katrine Whiteson, *University of California, Irvine*

SLB Award Talks

Presidential Finalists (Student and Junior Faculty/Postdoc categories). Dolph Adams, G. Jeannette Thorbecke, and DEI Paper of the Year

SLB LEGACY KEYNOTE LECTURE



Harnessing the Potential of Hematopoietic Stem Cells for Therapeutic Gene Delivery 2020 Legacy Awardee

Robert Clark, *University of Texas Health Science Center at San Antonio (UTHSCSA)*

Opening Reception

Join fellow attendees for a social evening with a light dinner reception

FRIDAY, OCTOBER 2, 2020

Poster Session Breakfast

Browse poster presentations during a lite breakfast session

PLENARY II: Immune Modulation by Microbes



Molecular Mechanisms of Chlamydia Subversion of Host Cellular Functions
Raphael Valdivia, *Duke University*

Parasitic Helminth Cooperation with Enteric Bacteria to Limit Inflammation
Derek McKay, *University of Calgary*



IL-4 Activated Macrophages During Helminth Infections
P'ng Loke, *New York University*

CONCURRENT SESSIONS 1-2:



Sepsis/Tissue Damage
Macrophages and RELM Proteins in Inflammation and Sepsis
Meera Nair, *Uni.of California, Riverside*

Harnessing the Immune System - Vaccination
New Strategies for Vaccine Development Against Enveloped Viruses
Hector Aguilar Carrero, *Cornell University*



Diversity, Equity and Inclusion Workshop: *Diversity, Equity, and Inclusion in Mentoring: Challenges and Opportunities*

Organized by the SLB DEI Committee. Limited quantity lunch available on a first-come, first-serve basis.

PLENARY III: Regulation of Gene Expression During Host-Microbe Interactions



Mechanisms of Varicella Zoster Virus Dissemination and Pathogenesis
Ilhem Messaoudi, *University of California, Irvine*

How the Ebola Virus VP35 Protein Modulates Innate and Adaptive Immunity to Promote Virulence
Christopher Basler, *Georgia State University*



Applying Functional Genomics to Reveal New Paradigms in Innate Immunity
Sara Cherry, *University of Pennsylvania*

CONCURRENT SESSIONS 3-4:



Early Life Microbial Exposure and Immune Ontogeny
Maternal Antibodies Regulate Neonatal Immunity to the Microbiome
Meagan Koch, *Fred Hutchinson Cancer Center*

Impact of Age on Host-Microbe Homeostasis
Host Versus Microbiome in Metabolic Disease
Kylie Kavanagh, *Wake Forest University*



GLOBAL SCIENCE: Top Cited Authors in Europe



Control of Adaptive Immunity by Lymph Node Stromal Cells

Reina Mebius, *Amsterdam University Medical Center*

Sugar Switches in Antibody-Mediated Effector Functions: What Turns Them On?

Gestur Vidarsson, *Amsterdam University Medical Center*



Metabolic Checkpoints in the Tumor Environment

Marina Kreutz, *Universitat Regensburg*

Poster Session Reception

Browse poster presentations during an evening reception with a lite dinner

SATURDAY, OCTOBER 3, 2020

Poster Session Breakfast

Browse poster presentations during a lite breakfast session

CONCURRENT SESSIONS 5-6:



Metabolic Regulation of Host-Microbe Interactions

Colonic Macrophages Dynamically Orchestrate Intestinal Immunity Against Bacterial Pathogens

Xiaoyu Hu, *Tsinghua University*

Cellular and Molecular Mechanisms of Mucosal Inflammation

Chemokine Receptor CCR6 Signalling in Gut Inflammation and Autoimmunity

Girdhari Lal, *National Centre for Cell Science, India*



CONCURRENT SESSIONS 7-8:



Co-Opting of the Host Immune System by Microbes

Defining the Roles of Host Lipids in Microbial Infection

Fikadu Tafesse, *Oregon Health and Science University*

Microbes and Neuro-Inflammation

The Ying and Yang of Osteopontin (SPP1) Proinflammatory Signaling at the Neuro-Immune Axes

Amanda Brown, *Johns Hopkins University*



Professional Development Workshop: *Beyond Academia: Career Paths and Options*

Organized by the SLB Professional Development Committee Limited quantity lunch available on a first-come, first-serve basis.

SLB Member Business Meeting and Award Presentations

Learn about SLB's activities and join us in announcing and congratulating several awardees, including onsite poster award announcements, and prize drawings.

TRENDING TOPIC: Coronavirus

Speakers to be announced!

PLENARY IV: Microbes as Triggers of Auto-immunity / Inflammation



Innate Control of Adaptive Immunity During Adulthood and Infancy

Beatriz Leon Ruiz, *University of Alabama, Birmingham*

Resident Microbes that Induce Aggressive vs Protective Responses in Genetically Predisposed vs Normal Hosts

Balfour Sartor, *University of North Carolina, Chapel Hill*



Persistent Triggers of Autoimmunity within the Microbiome

Martin Kriegel, *Yale University*

Thank you to our 2020 Sponsors



REGISTRATION INFORMATION

REGISTRATION:

Registration includes all main conference scientific sessions, workshops, one program booklet, limited quantity (first come, first serve) meals, and access to the event app. Registration fees exclude accommodation and other meal costs. Registration and payment may be made on the SLB meeting website at <https://www.leukocytebiology.org/registration-information>. Registration refunds will be provided less a 15% processing fee for refunds requested in writing prior to August 31, 2020. No refunds can be given after this date. Travel and accommodation cancellations remain the sole responsibility of the individual. All fees are listed in USD.

2020 REGISTRATION FEES:

REGISTRATION TYPE	Early Bird (Until July 9 th , 2020)	Regular (After July 9 th , 2020)
SLB Member	\$585	\$685
Non-Member	\$785	\$885
SLB Student Member	\$375	\$425
Student Non-Member	\$460	\$510
Abstract Submission Fee (non-members)	\$30	\$50
Special Interest Group Satellites add-on	\$20	
SLB SCHOOL Program add-on	\$50	
One Day Member Registration Regular/Student	\$300/\$200	
One Day Non-Member Registration Regular/Student	\$350/\$250	

Joining SLB in Portland from afar? Check out the tiered discounted registration options for our members from around the world on the society website and email jholland@leukocytebiology.org with questions.



SOCIETY FOR
LEUKOCYTE
BIOLOGY

10770 Columbia Pike, Suite 300
Silver Spring, MD 20901
www.leukocytebiology.org

IMPORTANT DATES:

- March 2020:** Registration, Abstract, and Award systems open
- July 9, 2020:** Abstract and award application deadline
- Early August 2020:** All award, selected talk, poster, and poster flash talk notifications sent
- August 10-21, 2020:** Late Breaking abstracts (for posters only) accepted
- Late August 2020:** Late Breaking notifications sent
- September 8, 2020:** Deadline to book hotel at group discount

JLB JOURNAL OF
LEUKOCYTE
BIOLOGY



SPECIAL JLB MEETING ISSUE!

JLB will publish a cluster of articles related to the 2020 meeting.

Look for more detailed information on the SLB website.

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