THANK YOU TO THE SUPPORTERS OF THE 2015 SLB MEETING!

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Contributor

Special Thanks

This conference was generously supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R13AI120518. The content is solely the responsibility of the authors and does not necessarily represent the official views of the National Institutes of Health.
Dear Colleagues,

It is our great pleasure to welcome you to the 2015 Annual Meeting of the Society for Leukocyte Biology (SLB).

In addition to an outstanding scientific program, our venue, the Hilton North Raleigh Midtown in Raleigh, NC, is in the Research Triangle Park region that boasts many outstanding universities, government research facilities, pharmaceuticals, and biotech companies. The overall theme for this year’s meeting is “Immunity in Health and Disease.” Our Keynote Speaker, and the recipient of the Bonazinga award, is Gail Bishop (University of Iowa). Her talk, entitled “The many faces of TRAF molecules and immune regulation” will provide an outstanding opening for the theme of the meeting. The program also contains 5 plenary sessions covering a variety of state-of-the-art topics in immunity, including Autophagy & Cellular, Epigenetics, Microbiome, Neural-Immune Interactions and Metabolic Control. Moreover, the 8 concurrent sessions have been designed to reflect the broader interests of our community and will be composed of invited speakers and short presentations chosen from submitted abstracts. These topics range from Lipid Mediator Regulation of Disease to Fibrosis & Tissue Repair. There will also be a special session on the “Best of the Journal of Leukocyte Biology.”

SLB has multiple special sessions beginning with the Alcohol and Immunology satellite symposium. There are a number of targeted educational sessions that deal with science career development issues such as “Street Smarts of Science: A Survival Guide for Students,” a session sponsored by the Women and Diversity Committee, and a Grant Writing Workshop. This year, for the first time, SLB introduces two new sessions. On Sunday before the meeting opening, selected posters will be highlighted in a session of brief poster talks. Finally, don’t miss the Immunology in the News session on Tuesday morning which features Ebola survivor and Dr. Ian Crozier who will share his unique perspective. In summary, there are sessions and activities for scientists at all levels.

Importantly, SLB meetings are known for having a number of outstanding opportunities for participants to meet and greet colleagues and establish future collaboration. At the 2015 meeting, this will begin with an opening reception that will be held the first night of the meeting immediately before the Bonazinga award presentation. SLB will also host a mixer on Monday evening that should provide a great chance to socialize, connect or reconnect with colleagues.

In case you are not aware, the greater Raleigh area is full of historic landmarks. Additionally, it is the center of culture and entertainment for the southeast with both leisure and business activities. As the state capital, Raleigh’s environment is lively, uniquely welcoming and friendly to all, a center of civic and cultural festivals.

Finally, a sincere “thank you” to all our sponsors including the NIH, Gilead, Janssen Research and Development, AbbVie, Biogen, BioLegend, Boster Bio, Cayman Chemical, PeproTech, R&D Systems – a Bio-Techne brand, and Sapphire North America – whose generous support helps make this program possible.

The 2015 Scientific Organizing Committee

Liz Kovacs
Nick Lukacs
Be a part of a Special JLB Dedicated SLB Meeting Issue

The Journal of Leukocyte Biology will publish a cluster of articles related to the SLB 2015 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.

All participants may submit their work for the dedicated issue according to the following schedule:

- Invite by: November 20, 2015
- First submission are due by March 1, 2016
- Review of articles to be completed by May 1, 2016
- Revised papers will be due by July 1, 2016
- Articles to be reviewed by August 1, 2016

Accepted articles will be published together in the November 2016 issue of JLB

Follow the meeting on Twitter!
#Leukocyte2015
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Luis Montaner, The Wistar Institute

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www.leukocytebiology.org
INVITED SPEAKERS AND CHAIRS

The SLB Conference Organizers wish to thank all of our invited speakers and session chairs who have greatly enriched our extensive program with their valuable participation.

**Invited Speakers**

Yasmine Belkaid, NIAID, NIH  
Gail Bishop, University of Iowa  
Linda Cauley, University of Connecticut  
Ian Crozier, Infectious Diseases Institute, Kampala, Uganda  
Vojo Deretic, University of New Mexico  
Vishwa Deep Dixit, Yale University  
Raymond P. Donnelly, FDA CDER  
Paul D. Drew, University of Arkansas Medical Sciences  
Douglas Green, St. Jude Hospital  
Gary Huffnagle, University of Michigan  
Tammy Kielian, University of Nebraska Medical Center  
Carey Lumeng, University of Michigan  
Susan Lynch, University of California San Francisco  
Liza Makowski, University of North Carolina  
Charles McCall, Wake Forest Baptist Medical Center  
John O'Shea, NIH/NIAMS  
Banishree Saha, University of Massachusetts Medical School  
Melanie Scott, University of Pittsburgh Medical Center  
Paula Shireman, University of Texas Health Science Center  
Andrea Tenner, University of California, Irvine

**Session Chairs and Co-Chairs**

Lee-Ann H. Allen, University of Iowa  
Jorn Coers, Duke University  
Luisa A. DiPietro, University of Illinois at Chicago  
Michael Brian Fessler, NIEHS  
Anne Kasus-Jacobi, University of Oklahoma Health Sciences Center  
Jay Kolls, Children’s Hospital of Pittsburgh  
Bruce Levy, Brigham and Women’s Hospital  
Pranoti Mandrekar, University of Massachusetts  
Luis Montaner, The Wistar Institute  
Sergey Novitskiy, Vanderbilt University  
David Pascual, University of Florida  
Michal A Rahat, Technion, Israel Institute of Technology  
Matthew Schaller, University of Michigan  
Jenny Ting, University of North Carolina  
Stephanie Watkins, Loyola University Chicago
2015 SLB AWARDS

Marie T. Bonazinga Award
Gail A. Bishop, University of Iowa Center for Immunology and Immune-Based Diseases

G. Jeanette Thorbecke Award
Diane Bimczok, Montana State University

Dolph Adams Award
Cynthia A. Leifer, Cornell University

Women and Diversity Paper of the Year
Ilhem Messaoudi, University of California- Riverside

Presidential Award Nominees
FINALISTS: STUDENT CATEGORY
Fariborz Soroush, Temple University
Stephania Libreros, Florida Atlantic University
Jill A. Shults, Loyola University Chicago

FINALISTS: JUNIOR FACULTY/POST-DOC CATEGORY
Catherine Ptaschinski, University of Michigan
Shuo Geng, Virginia Tech
Nicole Lavender, Vanderbilt University Medical Center

Lifetime Honorary Members
Andrea Tenner, University of California Irvine
Samuel C. Silverstein, Columbia University

Outgoing Council Awards
Marco Cassatella, University of Verona
Hongwei Gao, Brigham & Women’s Hospital
Mark Quinn, Montana State University
Jill Suttles, University of Louisville School of Medicine

2015 SLB Travel Award Winners
Cortney Armstrong, University of Louisville
Nicole Arnold, University of California, Riverside
Juhi Bagaitkar, Washington Univ. School of Medicine
Amanda J. Brock, University of Oklahoma Health Sciences Center
Abigail Cannon, Loyola University Chicago
Tingting Cheng, Tongji University, China
Richard Davis, University of Iowa
Jacob Stafford Edmission, University of Louisville
Michelle Engle, University of North Carolina
Becca Anne Flitter, University of Pittsburgh, School of Medicine
Ramon A. Garcia-Areas, Florida Atlantic University
Lelisa F. Gemta, University of Virginia
Archana Gopalakrishnan, Rutgers New Jersey Medical School
Fermin Ernesto Guerra, University of North Carolina
Cornelia Hahn, University of North Carolina
Minh-Minh Ho, California State Univ. of Long Beach
Elisabetta Liverani, Temple University
Tissa Thomas Manavalan, University of Connecticut Health Center
Jenna McCracken, University of Iowa
David W. Melton, University of Texas Health Science Center at San Antonio
Irina Miralda, University of Louisville
Heman Kum Mishra, University of Minnesota
Michael Murphy, Univ. of Connecticut Health Center
Samanthi Narayanan, University of Michigan
Andrea Rivera, University of California, Riverside
Mandi Roe, Montana State University
Shuvasree Sengupta, University of Louisville
Emily M. Smith, Des Moines University
Hung-An Ting, University of Michigan
Yi Yao, Yale University School of Medicine
Ruoxi Yuan, Virginia Tech
Farhan Zameer, University of South Carolina
### EXHIBITOR & SPONSOR LISTING

**TABLE #1**

**Journal of Leukocyte Biology**  
9650 Rockville Pike  
Bethesda, MD 20814-3998 USA  
Tel: 800.433.2732 ext. 7100  
jlb@journalstaff.com  
www.jleukbio.org  
**Onsite Representatives:** Amy Huter-Imming, Cody Mooneyhan

**TABLE #2**

**R&D Systems, a Bio-Techne brand**  
614 McKinley Place, NE  
Minneapolis, MN 55413  
Tel: 612.242.4997  
Fax: 612.656.4514  
www.bio-techne.com  
**Onsite Representative:** Jen Souvignier

**TABLE #3**

**PeproTech, Inc.**  
5 Crescent Avenue  
Rocky Hill, NJ 08553-0275  
Tel: 800.436.9910  
marketing@peprotech.com  
www.peprotech.com  
**Onsite Representative:** Heather Giordano

**TABLE #4**

**BioLegend**  
9727 Pacific Heights Blvd.  
San Diego, CA 92121 USA  
Tel: 858.455.9588  
sales@biolegend.com  
www.biolegend.com  
**Onsite Representatives:** John Rutigliano

**TABLE #5**

**Boster Biological Technology Co. Ltd.**  
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Pleasanton, CA 94566  
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Fax: 925-215-2184  
account@bosterbio.com  
www.bosterbio.com  
**Onsite Representative:** Sijie Xia

**TABLE #6**

**Sapphire North America**  
795 Highland Drive  
Ann Arbor, MI 48108  
Tel: 855.256.9433  
Fax: 734.468.0906  
sales@sapphire-usa.com  
www.sapphire-usa.com  
**Onsite Representative:** Brian Conkle

**TABLE #7**

**Cayman Chemical**  
1180 East Ellsworth Road  
Ann Arbor, MI 48108  
Tel: 800.364.9897 or 734.971.3335  
Fax: 734.971.3420  
Sales@CaymanChem.com  
www.CaymanChem.com  
**Onsite Representative:** Jenna Hendershot
SOCIAL EVENTS AND OTHER MEETINGS

Social Events

OPENING RECEPTION

Sunday, September 27th – This event will mark the opening of the conference, held from 6:00 - 7:00pm at the Hilton North Raleigh/Midtown in the Grand Ballroom Lobby. Hot and chilled hor d’oeuvres, action station, desserts and cash bar. Please come and join your fellow attendees to celebrate the official opening of the program.

NETWORKING BREAKFAST

Monday, September 28th, 8:00 - 9:00am – Join fellow meeting attendees for breakfast and conversation! Redeem your breakfast voucher at Lofton’s Corner. Additional seating is available in Grand Ballroom II. All meeting attendees are welcome to come and enjoy.

POSTER SESSION I - LUNCH

Monday, September 28th, 12:30 - 2:00pm – Enjoy lunch and poster presentations at the Hilton North Raleigh/ Midtown Capital Ballroom. Additional seating is available in the Grand Ballroom II. This is a great way to network, participate in the presentations, and enjoy a complimentary lunch. All meeting attendees are welcome to come and enjoy.

SOCIAL MIXER

Monday, September 28th, 7:00 - 9:00pm – Join fellow meeting attendees at Bahama Breeze for a Caribbean themed evening. Bahama Breeze is located next to the Hilton at 3309 Wake Forest Drive. Walk next door and join the fun! Food, music, and one drink ticket will be provided. All meeting attendees are welcome.

NETWORKING BREAKFAST

Tuesday, September 29th, 8:00 - 9:00am – Join fellow meeting attendees for breakfast and conversation! Redeem your breakfast voucher at Lofton’s Corner. Additional seating is available in Grand Ballroom II. All meeting attendees are welcome to come and enjoy.

POSTER SESSION II - LUNCH

Tuesday, September 29th, 12:45 - 2:15pm – Enjoy lunch and poster presentations at the Hilton North Raleigh/Midtown Capital Ballroom. Additional seating is available in the Grand Ballroom II. This is a great way to network, participate in the presentations, and enjoy a complimentary lunch. All meeting attendees are welcome to come and enjoy.

Other Meetings

The following Council and Committee meetings are occurring during the SLB 2015 conference in Raleigh, North Carolina. Meeting rooms noted are housed at the Hilton North Raleigh/Midtown which is the conference hotel unless otherwise noted. Please direct all questions regarding these meetings to Jen Holland (jholland@faseb.org).

SUNDAY, SEPTEMBER 27

7:30 – 11:00 am
SLB Council Meeting................................................. Judicial
11:30am - 1:15pm
JLB Editorial Board Lunch......................... Sandalwood
12:00 - 1:00pm
SLB Women and Diversity Committee...Oakwood
12:30 - 1:30pm
MTTG Group Meeting................................. Boardroom

MONDAY, SEPTEMBER 28

7:00 - 8:00am
SLB Publications Committee.................Oakwood
7:00 - 8:00am
SLB Professional Dev. Comm. .................Judicial
7:00 - 8:00am
SLB Dev. and Outreach Comm..............Boardroom
8:00 - 9:00am
SLB Conference Committee.........................Judicial
8:00 - 9:00am
SLB Membership Committee............... Boardroom
8:00 - 9:00am
SLB Website Committee.................Sandalwood

TUESDAY, SEPTEMBER 29

6:30 - 9:30pm
SLB Council and Comm. Chair Meeting.......offsite
GENERAL INFORMATION

Registration Hours
The meeting registration desk is located on the meeting room level in the foyer by the Grand Ballroom Registration desk of the Hilton North Raleigh/Midtown. Name badges and conference materials can be picked up at this location. If you purchased an abstract book, this will be available for pick-up at this time as well. The desk will be staffed during the following hours.

REGISTRATION DESK HOURS:
Sunday, September 27th ............ 7:30am – 6:00pm
Monday, September 28th ............ 8:00am – 5:00pm
Tuesday, September 29th .......... 8:00am – 4:30pm

REGISTRATION
Registration fees include the opening reception on Sunday night, refreshment breaks, Monday and Tuesday networking breakfasts and poster lunches, Monday night social, scientific sessions, and one program book. Registration fees exclude hotel costs. On-site registration will be accepted with payment via checks and credit cards.

Catering
Included in registration fees are the following catered events:
• Sunday Opening Reception (Hot and chilled hors d’oeuvres, action station, and cash bar.)
• Monday and Tuesday Networking Breakfast (hot and cold buffet served at Lofton’s Corner)
• Monday and Tuesday Poster lunch (sandwich, chips, cookie, fruit and a beverage)
• Monday Evening Social at Bahama Breeze (Caribbean themed cocktail party – one drink ticket, hot and cold appetizers)
• AM and PM coffee breaks

Abstracts
Printed Abstract books were made available online during pre-registration. Those purchased will be available for pick-up at the registration desk. A very limited number of copies will be available for onsite purchase ($30) at the registration desk. Abstracts are also available for viewing as PDFs on the SLB website.

Internet Access
Internet access is complimentary in the guest rooms for those staying onsite at the Hilton North Raleigh/Midtown. Complimentary access is also provided in the foyers, meeting spaces and common areas of the hotel. Bring your own device. This access will work in the poster board area for mobile viewing of abstracts and posters simultaneously.
User Name: SLB2015  |  Password: SLB2015

Cyber Café
We are pleased to offer a Cyber Café for our attendees which will be located in the Grand Ballroom I&II. Use this space to view abstracts online, check your email, meet with small groups to discuss areas of interest, have a mini-job fair and meet with prospective employers (see message and job board near the registration desk), or just sit and meet other SLB members. The Cyber Café will serve as overflow seating for networking breakfast and poster lunches.

Interview Room
New this year, SLB is offering a private space for on-site interviews. The Oakwood room is available Monday and Tuesday from 9:00am - 9:00pm. You are welcome to use this space for informational interviews or professional development conversations. Please respect other attendees’ use of this room and limit time accordingly.
GENERAL INFORMATION

Accommodations
Accommodations are provided by the Hilton North Raleigh/Midtown. The Hilton North Raleigh/Midtown hotel is ideally situated for discovering North Raleigh’s highly popular shopping and business district. The hotel is located just minutes from Downtown Raleigh, North Hills Shopping and Dining and the Research Triangle Park area. The hotel offers a complimentary shuttle service to and from the North Hills Shopping center.

Airport and Transportation
The Raleigh-Durham International Airport (RDU) is just 16 miles from the Hilton North Raleigh/Midtown. The Hilton offers a free shuttle to and from the airport. The shuttle departs from the hotel for the airport every hour but can be called on demand when a pick-up is needed at the airport. Call the hotel at 919-872-2323 to request a shuttle at the airport or stop at the front desk to arrange a shuttle to the airport or North Hills. For more information about the Raleigh-Durham Airport, visit www.rdu.com.

Parking
Onsite parking at the Hilton North Raleigh/Midtown is available for registered hotel guests and meeting attendees and is complimentary.

Speakers
Presenters are asked to load their talks at least 2 hours prior to their sessions by visiting the speaker ready room “Capital Registration.” For loading, or if you would like to practice your presentation, please visit the speaker ready room in “Capital Registration” during the hours listed below. SLB will provide laptops, LCD projectors/screens and microphones. If you require any assistance, please contact one of the AV Technicians. Equipment is compatible with both Mac and Microsoft products. Please arrive in the session room at least 15 minutes prior to your start time.

SPEAKER READY ROOM HOURS:
Sunday, September 27th .......... 9:00am - 5:30pm
Monday, September 28th .......... 8:00am - 5:00pm
Tuesday, September 29th ........ 8:00am - 4:00pm

Poster Set up/Poster Sessions
All posters will be on display throughout the entire conference but will be presented in two separate sessions. Odd number board and Alcohol Symposium posters (#1-14) will formally present on Monday, September 28th from 12:30 - 2:00pm, while even numbers boards and late breaking abstracts (#132-145) will formally present on Tuesday, September 29th from 12:30 - 2:00pm. Set-up and breakdown for ALL poster boards is as follows:

Set-up for all posters begins:
Sunday, September 27th at 12:00 noon

Remove posters by:
Tuesday, September 29th at 6:00pm

Poster Session I - Lunch:
Monday, September 28th from 12:30 - 2:00pm

Poster Session II - Lunch:
Tuesday, September 29th from 12:45 - 2:15pm

Lunch will be offered at both poster sessions. The organizers are not responsible for any materials posted. Pushpins are provided.

Exhibition
Please take time to visit the exhibit displays in the Grand Ballroom Lobby during the breaks and poster sessions. See page 7, for detailed information regarding our sponsoring companies. Be sure to have your Passport to Exhibitors (provided at the meeting registration desk) initialed by each exhibit representative. Collect all exhibitor signatures and return your completed card to the registration desk for a prize drawing. Winners will be notified by email.

EXHIBITS SCHEDULE:
Sunday, September 27th ..... 12:00 Noon - 6:00pm
Monday, September 28th .......... 8:00am - 5:00pm
Tuesday, September 29th ....... 8:00am - 4:30pm
GENERAL INFORMATION

Accompanying Persons
Guests are welcome to enjoy the Raleigh area during conference hours. There are many outdoor activities, shopping, restaurants and local attractions to explore! See the hotel concierge or www.visitraleigh.com for information.

Membership
All members are encouraged and invited to attend the SLB Member Business Meeting on Tuesday, September 29th at 12:15pm in Grand Ballroom 4&5. Remaining awards will be announced at this time. The advice and guidance of the membership on current society issues is welcome in this “open forum” meeting. If you are not currently a member, applications are available in the program book or registration desk.

Awards
Those who have been notified that they are Student Travel Award recipients may pick-up their checks at the registration desk (signature required). Other awards will be presented during the named program session or during the society business meeting.

Special Needs
Registrants with special needs are invited to contact the Registration Desk or hotel concierge for assistance.

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 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.

PIZZA AND PUBS PROGRAM

Sign up to get $200 per year to local groups to be used at regular meetings!

To qualify, your group needs to have at least 10 people, of which at least two must be PIs who are SLB members, and one student/postdoc who will join SLB as a new member.

To apply, simply send us an email (slb@faseb.org) with the names and email addresses of the members of your group, a brief description of the lab group/journal club/discussion group, and a paid application for a student membership (you may download this off the SLB website www.leukocytebiology.org).
**SCIENTIFIC PROGRAM**

**Sunday, September 27**

**PRE-PROGRAM**

8:00am – 1:00pm

**Satellite Symposium on Alcohol and Immunology: Neuroimmunoendocrine Effects of Alcohol**

Sponsored by the Alcohol and Immunology Research Interest Group (AIRIG)

Supported by the National Institute on Alcohol Abuse and Alcoholism (NIAAA)

LOCATION: Dogwood & Boxwood

Organizer: Elizabeth Kovacs, Loyola University Chicago

**SESSION 1: ALCOHOL AND THE LUNG**

Chairs: Brenda Curtis and Michael Price

8:15am  
**Acute ethanol ingestion triggers asthma,**  
Daniel G. Remick, Boston University

8:45am  
**Pioglitazone attenuates alcohol-induced alveolar macrophage oxidative stress by down-regulating NADPH oxidases,**  
Samantha Yeligar, Emory University

9:00am  
**Chronic alcohol enhances pulmonary damage in a mouse model of endotoxemia-induced acute lung injury: novel role of plasminogen activator inhibitor-1,**  
Lauren Poole, University of Louisville School of Medicine

9:15am  
**Alcohol abuse is associated with enhanced pulmonary xanthine oxidoreductase activity,**  
Ellen L. Burnham, University of Colorado Denver

9:30am  
**Combined alcohol and cigarette smoke exposure decreases repair/restorative cytokines in mouse lung,**  
Todd A. Wyatt, University of Nebraska Medical Center

9:45am  Break

**SESSION 2: ALCOHOL AND MULTI-ORGAN RESPONSES**

Chairs: Tasha Barr and Niya Morris

10:30am  
**Alcohol-neuroimmune interactions in traumatic brain injury,**  
Patricia E. Molina, Louisiana State University Health Science Center

11:00am  
**Is liver injury a mechanism of accelerated immune dysfunction (immunosenescence) among ART-naive HIV-infected Russians with a recent history of heavy drinking?**  
Kaku So-Armah, Boston Univ. School of Medicine

11:15am  
**Generation of murine stem cell derived hepatoblast as a transplantable cell source to treat chronic alcoholic liver disease,**  
Trinidad Cisneros, Standford University

11:30am  
**Ethanol induces GILZ gene expression to modulate cell immune response through a non-canonical GR trans-activation,**  
Guoshun Wang, Louisiana State Univ.

11:45am  
**Central administration of alcohol modulates sympathetic nerve activity, protein and carbohydrate metabolism, and hormone action in muscle,**  
Charles Lang, Pennsylvania State University

12:15pm  Lunch – Box lunches will be provided for satellite participants in the conference room. Please grab a lunch and return to your seat for the question and answer session.

12:30pm  
**Q/A session on the type of research/training and new initiatives,**  
Joe Wang, National Institute on Alcohol Abuse and Alcoholism

12:45pm  **Overall Discussion,**  
Elizabeth Kovacs, Mashkoor Choudhry, Brenda Curtis, Pranoti Mandrekar and Todd Wyatt

**11:00am – 12:30pm**

**Poster Talks: Highlighted Poster Session Presentations**

LOCATION: Grand Ballroom 3

**11:00am**

**Regulation of Lymphocyte Function**

Chairs: Bruce Levy & Juhi Bagaitkar

- [Retinoic Acid and Helicobacter Pylori Differentially Regulate CD103 (aE integrin) Expression by Human](abstract34)
- [Gimap5 is essential for GSK3ß inhibition during T cell activation controlling the transcriptional program required for proliferation and Th17/Treg differentiation](abstract95)
- [Integrative studies on 3,3’-diindolylmethane triggered regulation of Th17 and Treg cells in ameliorating multiple sclerosis through microbiome-host interplay](abstract96)
- [Notch Signaling Regulates T-cell Cytokine Expression in Response to MHV-68 Infection Following Bone Marrow Transplantation](abstract97)

**11:30am**

**Advances in TLR sensing and signaling**

Chairs: Ann Richmond & Hemant Mishra

- Sensing Pseudomonas aeruginosa Lipid A Variants by Neutrophils and Monocytes, the Key Players of Lung Inflammation in Cystic Fibrosis, Shuvasree Sengupta, abstract 35 Travel Award Winner
- Pellino-1 Positively Regulates Toll-like Receptor (TLR) 2 and TLR4 Signaling and is Suppressed upon Induction of Endotoxin Tolerance, Michael Murphy, abstract 55 Travel Award Winner
- Type I interferons as Suppressors of TLR Dependent Innate Responses to Salmonella Typhimurium, Darren Perkins, abstract 59
- High glucose differentially affects expression of TLRs in human macrophages: potential mechanism of chronic inflammation in diabetes, Michael Balduff, abstract 84
SCIENTIFIC PROGRAM

12:00pm
New Insights into Neutrophil Functional Responses
Chairs: Silvia Uriarte & Stephania Libreros
• Role of the Store-operated Calcium Entry protein, STIM1, in neutrophil chemotaxis and their infiltration into Psoriasis-inflamed skin. Natacha Steinckwich-Besancon, abstract 105
• Gelatinase granules, not generation of reactive oxygen species, participates in human neutrophil killing of environmental mycobacteria. Irina Miralda. abstract 107 Travel Award Winner
• The oral pathogen Filifactor alocis, enhances chemotactic functions of human neutrophils. Cortney Armstrong, abstract 114 Travel Award Winner
• Modulation of Neutrophil Reactive Oxygen Species Production by Staphylococcus aureus, Fermin Ernesto Guerra. abstract 120 Travel Award Winner

Sunday, September 27
MAIN PROGRAM

1:30 - 3:00pm
Welcome and Plenary I - Autophagy, Cellular Stress and Innate Immunity
LOCATION: Grand Ballroom 4&5
Chairs: Elizabeth Kovacs, Loyola University Chicago, and Nicolas Lukacs, University of Michigan Medical School
1:30pm Autophagy in Leukocyte Biology and Function. Vojo Deretic, University of New Mexico
2:00pm Sterile Inflammation, Inflammasome and Autophagy. Melanie Scott, University of Pittsburgh Medical Center
2:30pm LC3-Associated Phagocytosis: Non-canonical Autophagy at the Interface of Innate Immunity, Inflammation, and Aging. Douglas Green, St. Jude Hospital

3:00 - 4:30pm
SLB Presidential Nominees
LOCATION: Grand Ballroom 4&5
Chairs: Ann Richmond, Vanderbilt University School of Medicine, and Robert Clark, University of Texas Health Science Center
3:00pm RSV-induced H3K4 demethylase KDMSB leads to regulation of dendritic cell-derived innate cytokines and exacerbates pathogenesis in vivo. Catherine Ptaschinski, University of Michigan, abstract 73
3:15pm Low-grade inflammatory programming of innate monocytes through disruption of lysosome function by super-low-dose endotoxin. Shuo Geng, PhD, Virginia Tech. abstract 74
3:30pm The role of CCL2 in the breast cancer tumor microenvironment and metastasis. Nicole Lavender, Vanderbilt University, abstract 98
3:45pm Protein Kinase C delta (PKCd) is Required for Human Neutrophil Migration during Acute Inflammation, Fariborz Sorouh, Temple University, abstract 99
4:00pm Inflammation associated CHI3L1 alters the pulmonary microenvironment supporting breast cancer metastasis. Stephania Libreros, Florida Atlantic University, abstract 48
4:15pm Alveolar Macrophage Phagocytic Activity and Apoptosis after intoxication and Injury. Jill A. Shults, Loyola University Chicago, abstract 14

4:30 - 4:45pm
Coffee Break
LOCATION: Grand Ballroom Foyer

4:45 - 6:00pm
Senior Level Awards
LOCATION: Grand Ballroom 4&5
Chairs: Ann Richmond, Vanderbilt University School of Medicine, and Robert Clark, University of Texas Health Science Center

DOLPH ADAMS Awardee
4:45pm Toll-like receptor 9 stability and signaling are regulated by phosphorylation and cell stress, Cynthia A. Leifer, Cornell University, abstract 15

G. JEANETTE THORBECKE Awardee
5:10pm Retinoic Acid and Helicobacter Pylori Differentially Regulate CD103 (aE integrin) Expression by Human Dendritic Cells. Diane Bimczok, Montana State University, abstract 34

WOMEN & DIVERSITY PAPER OF THE YEAR.
5:35pm Antibodies are necessary for rVSV/ZEBOV-GP mediated protection against lethal Ebola virus challenge in nonhuman primates. Ilhem Messaoudi, University of California, Riverside, abstract 37

6:00 - 7:00pm
Opening Reception
LOCATION: Grand Ballroom Foyer

7:00 - 8:00pm
Keynote Lecture
Bonazinga Winner, Sponsored by Accurate Chemical
LOCATION: Grand Ballroom 4&5
Chair: Ann Richmond, Vanderbilt University School of Medicine
7:00pm Introduction
7:15pm The Many Faces of TRAF Molecules in Immune Regulation. Gail A. Bishop, University of Iowa Center for Immunology and Immune-Based Diseases
SCIENTIFIC PROGRAM

8:00 - 9:30pm
Street Smarts of Science
LOCATION: Dogwood & Boxwood
Organizers: Elizabeth Kovacs, Loyola University Chicago, Rebecca Fuldner, NIA, and Sulie Chang, Seton Hall University
Senior SLB faculty organizing this event 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.

Monday, September 28

7:00 - 9:00am
SLB Committee Meetings
LOCATION: Judicial, Boardroom, Sandalwood, & Oakwood

7:00 - 9:00am
Women and Diversity Special Session
LOCATION: Dogwood & Boxwood – registration required.
Organizer: Vijaya Iragavarapu, Florida Atlantic University
This year the Women and Diversity Town Hall Discussion focuses on networking. Interactive topics include networking strategies for collaborations, job searches and job promotion. Bring your questions and insights to join in the discussion. Pre-registration is requested.

8:00 - 9:00am
Networking Breakfast
LOCATION: Breakfast provided in Lofton’s Corner with additional seating in Grand Ballroom 1&2

9:00 - 10:30am
Plenary II - Epigenetics and Immunity
LOCATION: Grand Ballroom 4&5
Chair: Christine Biron, Brown University
9:00am MicroRNA Regulation of Macrophage Plasticity, Paula Shireman, University of Texas Health Science Center
9:30am Epigenetic Coordination of Acute Systemic Inflammation by Sirtuins: Potential Therapeutic, Charles McCaill, Wake Forest Baptist Medical Center
10:00am Genomic Switches and Lymphocyte Identity, John O’Shea, NIH/NIAMS

11:00am - 12:30pm
Concurrent Sessions

CS 1 - LIPID MEDIATOR REGULATION OF DISEASE
LOCATION: Grand Ballroom 4&5
Chair: Bruce Levy, Brigham and Women’s Hospital
Co-Chair: Michael Brian Fessler, NIEHS
11:00am Specialized Pro-Resolving Mediators Regulate Host Responses To Lung Inflammation and Injury, Bruce Levy, Brigham and Women’s Hospital
11:30am Ceramide plays a critical role in allergic airway disease, Jamie Lynn Sturgill, VCU, abstract 25
11:45am A novel role for oxysterols in resolution of airspace neutrophilia, Michael Brian Fessler, NIEHS/NIH, abstract 26
12:00pm Pseudomonas aeruginosa promotes persistent inflammation in the cystic fibrosis airway by preventing the generation of the pro-resolving mediator 15-epi lipoxin A4, Becca Anne Flitter, University of Pittsburgh School of Medicine, abstract 27 Travel Award Winner
12:15pm The Endocannabinoid N-Arachidonoyl Dopamine Modulates TLR-Dependent Endothelial and Systemic Inflammation, Samira Khakpour, Univ. of California San Francisco, abstract 28 Travel Award Winner

CS 2 - IMMUNOLOGIC MECHANISMS OF VACCINATION
LOCATION: Grand Ballroom 3
Chair: David Pascual, University of Florida
Co-chair: Michal A Rahat, Technion, Israel Institute of Technology
11:00am Defining how to Vaccinate for Infection or Autoimmunity, David Pascual, University of Florida
11:30am Uncovering Mechanisms of Protection Against Ebola Virus Infection Conferred by Recombinant VSV-GP Vaccine, Andrea Rivera, UCR, abstract 38 Travel Award Winner
11:45am Differential effects of HIV latency reversing agents on T cell phenotype and function: implications for HIV cure, Niluksi P. Goonetilleke, University of North Carolina, abstract 39
12:00pm Modulation of Th2-associated allergic immune responses with mucosal nanoemulsion-based vaccines, Jessica Jane O’Konek, PhD, University of Michigan, abstract 40
12:15pm EMMPRIN inhibition using a novel epitope-specific antibody reduces tumor progression, Michal A Rahat, Carmel Medical Center & Technion, abstract 41

12:30 - 2:00pm
Poster Session I - Lunch
LOCATION: Capital Ballroom
Lunches will be provided in Lofton’s Corner with extra seating in Grand Ballroom 1&2. Grab lunch, enjoy the poster presentations in the Capital Ballroom and network with other attendees.
2:00 – 3:30pm
Plenary III- Microbiome and Mucosal Immunity
LOCATION: Grand Ballroom 4&5
Chair: Claire Doerschuk, University of North Carolina School of Medicine
2:00pm  The Microbiome and Allergic Asthma, Susan Lynch, University of California San Francisco
2:30pm  From Commensalism to Parasitism: Context and Consequences, Yasmine Belkaid, NIAID, NIH
3:00pm  The Lung Microbiome in Health and Disease, Gary Huffnagle, University of Michigan

3:30 - 4:00pm
Coffee Break
LOCATION: Grand Ballroom Foyer

4:00 - 5:30pm
Concurrent Sessions
CS 3 - INFLAMMASOMES AND INFLAMMATORY DISEASE
LOCATION: Grand Ballroom 4&5
Chair: Jenny Ting, University of North Carolina
Co-chair: Jorn Coers - Duke University
4:00pm  The NLR Intracellular Sensors and Receptors, Jenny Ting, University of North Carolina
4:30pm  Targeted protein Kinase C-delta inhibition is organ-protective and improves pathogen clearance in sepsis, Elisabetta Liverani, abstract 49 Travel Award Winner
4:45pm  Expression of the Melanocortin-Adenosinergic Pathway in Human Uveitis Patients, Darren J. Lee, University of Oklahoma Health Sciences Center and Dean McGee, abstract 50
5:00pm  Beyond The Inflammasome: Regulatory NLRs in Inflammation and Tumorigenesis, Irving Coy Allen, Virginia Tech, abstract 51
5:15pm  Multiparametric single-cell analysis of Natural Killer cell responses to infection with West Nile virus, Yi Yao, Yale University School of Medicine, abstract 52 Travel Award Winner

CS 4 - FIBROSIS AND TISSUE REPAIR
LOCATION: Grand Ballroom 3
Chair: Luisa DiPietro, University of Illinois at Chicago
Co-chair: Pranoti Mandrekar - University of Massachusetts
4:00pm  Right-Sizing Angiogenesis for Regenerative Tissue Repair, Luisa DiPietro, University of Illinois at Chicago
4:30pm  Development of aggressive pancreatic ductal adenocarcinomas (PDAC) depends on G-CSF secretion from carcinoma cells, Sergey Novitskiy, Vanderbilt University, abstract 66
4:45pm  Stress induced heat shock transcription factor 1 (HSF1) orchestrates inflammatory cytokines and fibrogenic genes to regulate liver fibrosis, Pranoti Mandrekar, Univ Massachusetts Medical School, abstract 67

5:00pm  DC-SIGN activation alleviates acute lung injury and pulmonary fibrosis in mice, Nehemiah Cox, Texas A & M University, abstract 68
5:15pm  HIV-1 transgenic rats display alterations in gene expression associated with aging in liver, Sulie Chang, Seton Hall University, abstract 69

5:30pm - 7:00pm
MTTG Session: “Career Transitions”
LOCATION: Boxwood
Organizers: Stephanie Libreros, Florida Atlantic University, and Juhi Bagaitkar, Washington University St. Louis
Panelist include: Silvia M Uriarte, University of Louisville; Cherie Butts, Biogen Idec; Lee-Ann Allen, University of Iowa; and Jhem Messaoudi, University of California Riverside.
The Members in Transition and Training Group will host their first panel discussion. Expert panelist will address trainee career development and transitioning. Attendees of this event will receive an extra drink ticket for the social mixer. All are welcome – come and bring a friend!

7:00 - 9:00pm
Social Mixer – Bahama Breeze
Join fellow meeting attendees at Bahama Breeze for a Caribbean themed evening. Bahama Breeze is located next to the Hilton at 3309 Wake Forest Drive. Walk next door and join the fun! Food, music, and one drink ticket will be provided. All meeting attendees are welcome.

Tuesday, September 29

7:00 - 8:30am
Grant Writing Session Breakfast
LOCATION: Dogwood & Boxwood – registration required
Organizer: Julian Cambronero, Wright State University
Presenter: Tina McIntyre, PhD, Scientific Review Officer, III Study Section, Immunology IRG, DPPS, Center for Scientific Review, 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 where grant writing strategies from multiple perspectives will be presented. New this year, the group will divide into two sections: one for the original program and a new section for returning attendees who are ready for the next level of grant writing conversation.

8:00 - 9:30am
Breakfast
LOCATION: Breakfast provided in Lofton’s Corner
8:30 - 9:30am
Immunology in the News: Special Breakfast Session
LOCATION: Breakfast provided Lofton’s in Corner Presentation will be in Grand Ballroom 465
8:30am Introduction by Darren Lee, University of Oklahoma Health Sciences Center
A Survivor’s Story: Dual Citizenship at the Ebola Bedside, Ian Crozier, Infectious Diseases Institute, Kampala, Uganda

9:30 - 11:00am
Concurrent Sessions

CS 5 - DC AND MACROPHAGES IN TUMORIGENESIS AND INFLAMMATION
LOCATION: Grand Ballroom 465
Chair: Stephanie Watkins, Loyola University Chicago
Co-chair: Sergey Novitskiy, Vanderbilt University
9:30am Gender Differentially Regulates Immune Cell Signaling in Anti-tumor Immunity, Stephanie Watkins, Loyola University Chicago
10:00am The IL-25/IL-25 receptor axis in B cell lymphomas of germinal center origin, Vito Pistoia, G. Gaslini Institute, abstract 75
10:15am A new TLR adaptor pathway linked to inflammatory cytokine production from macrophages, Matthew J. Sweet, University of Queensland, abstract 76
10:30am Toxoplasma gondii interferes with virus-induced induction of Interferon-α in human plasmacytoid dendritic cells by functional mimicry of IL-10, Patricia Fitzgerald-Bocarsly, Rutgers New Jersey Medical School, abstract 77
10:45am Ablation of host-derived Semaphorin7A decreases tumor progression in a murine model of metastatic breast cancer, Ramon A. Garcia-Areas, Florida Atlantic University, abstract 78 Travel Award Winner

CS 6 - TREG/TH17 BALANCE IN INFLAMMATORY DISEASE
LOCATION: Grand Ballroom 3
Chair: Jay Kolls, Children’s Hospital of Pittsburgh
Co-chair: Matthew Schaller, University of Michigan
9:30am Type 17 Immunity at Mucosal Surfaces, Jay Kolls, Children’s Hospital of Pittsburgh
10:00am Increased Th17 response to gammaherpesvirus infection is essential for the development of pneumonitis and fibrosis in mice post bone marrow transplantation, Xiaofeng Zhou, PhD, University of Michigan, abstract 91
10:15am Notch mediated regulatory T cells development is maintained by an epigenetic mechanism, Hung-An Ting, University of Michigan, abstract 92 Travel Award Winner

11:30am - 12:45pm
Concurrent Sessions

CS 7 - NEUTROPHILS IN HEALTH AND DISEASE
LOCATION: Grand Ballroom 465
Chair: Lee-Ann H. Allen, University of Iowa
Co-chair: Anne Kasus-Jacobi, University of Oklahoma Health Sciences Center
11:15am Manipulation of Human Neutrophil Function and Lifespan by Francisella Tularensis, Lee-Ann H. Allen, University of Iowa
11:45am Phenotypic and Functional Characteristics of an HLA-DR+ Subset of Neutrophils in Brazilians with Cutaneous Leishmaniasis, Richard Davis, University of Iowa, abstract 100 Travel Award Winner
12:00pm How Neutrophils Avoid Traffic Jams at Sites of Inflammation, Daniel Irimia, Massachusetts General Hospital, abstract 101
12:15pm A Critical Concentration of Neutrophils and of CD8+T-cells Is Required to Reduce the Concentration of Bacteria, Virus Infected Cells, and Tumor Cells in vitro and in vivo, Samuel Silverstein, Columbia University, abstract 102
12:30pm Ectosomes from human neutrophils laden with Staphylococcus aureus induce a pro-inflammatory response in macrophages, Maya Amjadi, University of Iowa, abstract 103

CS 8 - BEST OF JOURNAL OF LEUKOCYTE BIOLOGY
LOCATION: Grand Ballroom 3
Chair: Luis Montaner, The Wistar Institute
11:15am Introduction of Articles, Luis Montaner, The Wistar Institute
11:20am Lung-resident memory CD8 T cells (TRM) are indispensable for optimal cross-protection against pulmonary virus infection, Linda S. Cauley, Journal of Leukocyte Biology, 2014 Feb; 95(2):215-24

12:45pm - 2:15pm  
**Poster Session II- Lunch**  
**LOCATION:** Capital Ballroom  
Lunches will be provided in Lofton’s Corner with extra seating in Grand Ballroom 1&2. Grab lunch, enjoy the poster presentations in the Capital Ballroom and network with other attendees.

2:15pm  
**Member Business Meeting and Presidential Award Announcements**  
**LOCATION:** Grand Ballroom 4&5  
All members are encouraged and invited to attend this SLB Member Business Meeting. Remaining awards will be announced at this time. The advice and guidance of the membership on current society issues is welcome at this “open forum” meeting.

2:30 - 4:00pm  
**Plenary IV - Neuro-Immune Interactions**  
**LOCATION:** Grand Ballroom 4&5  
**Chair:** Mark Quinn, Montana State University  
2:30pm  **Link Between Inflammation and Neurodegeneration in Juvenile Batten Disease**, Tammy Kielian, University of Nebraska Medical Center  
3:00pm  **Complement as a Modulator of Neurodegenerative Disease**, Andrea Tenner, University of California, Irvine  
3:30pm  **Nuclear Receptor Modulation of Neuroinflammation**, Paul D. Drew, University of Arkansas Medical Sciences

4:00 - 4:15pm  
**Coffee Break**  
**LOCATION:** Grand Ballroom Foyer

4:15 - 5:45pm  
**Plenary V - Metabolic Control of Immunity**  
**LOCATION:** Grand Ballroom 4&5  
**Chair:** Bruce Walcheck, University of Minnesota  
4:15pm  **Manipulation of Macrophage Metabolism Controls Alternative Macrophage Polarization and Obesity-induced Inflammation**, Liza Makowski, University of North Carolina  
4:45pm  **Metabolic Determinants of Inflammasome Deactivation**, Vishwa Deep Dixit, Yale University  
5:15pm  **Obesity-Induced CD4+ T Cell Activation in Adipose Tissue**, Carey Lumeng, University of Michigan

**Join us on the MTTG Linkedin page!**  
www.linkedin.com/grp/home?gid=8263030

**Don’t forget to renew your membership for 2016!**  
Keep enjoying your member benefits by renewing now.

Not a member? Join Today!  
Visit: leukocytebiology.org to learn more.
POSTER SESSION FLOORPLAN

POSTER SESSION 1
Monday, September 28th
from 12:30 - 2:00pm
Alcohol Symposium
(Boards 1-14) and
Odd Number Boards Present

POSTER SESSION 2
Tuesday, September 29th
from 12:45 - 2:15pm
Late Breaking
(Boards 132-145) and
Even Number Boards Present
POSTER SESSIONS

Alcohol and Immunology

Abstract: 1  Poster Session I
Pioglitazone Attenuates Alcohol-Induced Alveolar Macrophage Oxidative Stress by Down-Regulating NADPH Oxidases
Samantha Yeligar, Frank Harris, Lou Ann Brown, C. Michael Hart. Emory University / Atlanta VAMC, Atlanta, GA

Abstract: 2  Poster Session I
Chronic Alcohol Enhances Pulmonary Damage in a Mouse Model of Endotoxemia-Induced Acute Lung Injury: Novel Role of Plasminogen Activator Inhibitor-1
Lauren Poole, Veronica Massey, Edilson Torres, Deanna Siow, Nikole Warner, Anna Lang, Christine Dolin, Jeffrey Ritzenthaler, Jesse Roman, Gavin Arteel. Pharmacology and Toxicology; Medicine; Microbiology and Immunology, University of Louisville, Louisville, KY

Abstract: 3  Poster Session I
Alcohol Abuse is Associated with Enhanced Pulmonary Xanthine Oxidoreductase Activity
Ellen Lyda Burnham, Jeanette Gaydos, Alicia McNally, Mehdi Fini. Department of Medicine, University of Colorado School of Medicine, Aurora, CO

Abstract: 4  Poster Session I
Combined Alcohol and Cigarette Smoke Exposure Decreases Repair/Restorative Cytokines in Mouse Lung
Todd A. Wyatt, Kristi Warren, Muna Sapkota, Jane DeVasure, Jenea Sweeter, Joe Sisson. Environmental, Agricultural & Occupational Health, University of Nebraska Medical Center, Omaha, NE; IM-Division of Pulmonary, Critical Care, Sleep & Allergy, University of Nebraska Medical Center, Omaha, NE

Abstract: 5  Poster Session I
Is Liver Injury a Mechanism of Accelerated Immune Dysfunction (Immunosenescence) Among ART-Naïve HIV-Infected Russians With a Recent History of Heavy Drinking?
Kaku So-Armah, Debbie Cheng, Gregory Pattis, Natalia Gnatienko, Evgeny Krupitsky, Dmitry Liozov, Margaret Doyle, Joseph Lim, Jeffrey Samet, Matthew Freiberg. Boston University School of Medicine, Boston, MA; Pavlov State Medical University, St. Petersburg, Russia; University of Vermont College of Medicine, Burlington, VT; Yale University School of Medicine, New Haven, CT; Vanderbilt University School of Medicine, Nashville, TN

Abstract: 6  Poster Session I
Generation of Murine Stem Cell Derived Hepatoblast as a Transplantable Cell Source to Treat Chronic Alcoholic Liver Disease
Trinidad Cisneros, Xiumei Qu, Carlos Esquivel, Olivia Martinez. Department of Surgery, Stanford University, Stanford, CA

Abstract: 7  Poster Session I
Ethanol Induces GILZ Gene Expression to Modulate Cell Immune Response Through a Non-Canonical GR Trans-Activation
Guoshun Wang, Jack Wang, Patricia Molina, Steve Nelson, Hang Pong Ng. Louisiana State University Health Sciences Center, New Orleans, LA

Abstract: 8  Poster Session I
Alcohol Consumption Modulates Host Defense by Altering Gene Expression in Circulating Leukocytes
Tasha Marie Barr, Thomas Girke, Christina Nguyen, Kathleen Grant, Ilhem Messaoudi. University of California, Riverside, School of Medicine; Oregon National Primate Research Center, Beaverton, OR

Abstract: 9  Poster Session I
Elevated HIF-1a in the Gut Following Alcohol and Burn Injury
Niya Latrice Morris, Adam Hammer, Xiaoling Li, Abigail Cannon, Mahum Mirza, Mashkoor Choudhry. Loyola University Health Sciences Division, Maywood, IL

Abstract: 10  Poster Session I
Alcohol-Induced S-Nitrosylation Drives Protein Phosphatase 1-Dependent Ciliary Dysfunction
Michael Earl Price, Jacqueline Pavlik, Joseph Sisson. Department of Cellular and Integrative Physiology, University of Nebraska Medical Center, Omaha, NE

Abstract: 11  Poster Session I
Ethanol Intoxication Amplifies Lung Histone Deacetylase Activity and Increases Levels of Histone Deacetylase 1
Brenda J. Curtis, Jill Shults, Luis Ramirez, Elizabeth Kovacs. Surgery, Burn Shock and Trauma Research Institute, Loyola University Medical Center, Maywood, IL

Abstract: 12  Poster Session I
Ethanol Modulation of Expression Profiling of TRP Channel Proteins
Jianlin He, Michelle Mack, Yufeng Wei, Sulie Chang. Institute of NeuroImmune Pharmacology, Seton Hall University, South Orange, NJ

Abstract: 13  Poster Session I
Chronic Heavy Alcohol Consumption Increases Risk of Cardiovascular Diseases and Anemia in Female Rhesus Macaques
Suhas Sureshchandra, Ilhem Messaoudi, Kathy Grant. School of Medicine Research, University of California, Riverside, Riverside, CA; Division of Biomedical Sciences, University of California, Riverside, Riverside, CA; Division of Neuroscience, Oregon Health and Sciences University, Portland, OR
Abstract: 14 Poster Session I
Presidential Student Award Finalist
Alveolar Macrophage Phagocytic Activity and Apoptosis after Intoxication and Injury
Jill A. Shults, Brenda Curtis, Luis Ramirez, Elizabeth Kovacs. Department of Surgery, Loyola University Chicago Health Sciences Campus, Maywood, IL

Abstract: 15 Poster Session I
Adams Awardee
Toll-Like Receptor 9 Stability and Signaling Are Regulated by Phosphorylation and Cell Stress
Cynthia A. Leifer, Maroof Hasan, Jody Cameron. Department of Microbiology and Immunology, Cornell University College of Veterinary Medicine, Ithaca, NY

Abstract: 16 Poster Session II
Lyn Delivers Bacterial Substance to Lysosomes for Eradication Through TLR2-Initiated and Autophagy-Associated Phagocytosis
Xuefeng Li, Min Wu. School of Medicine & Health Sciences, University of North Dakota, Grand Forks, ND

Abstract: 17 Poster Session I
A Novel Mechanism for the Human Host Defense Peptide LL-37-Induced Mast Cell Degranulation
Kaori Suzuki, Taisuke Murakami, Toshiko Moribayashi, Isao Nagaoka. Host Defense and Biochemical Research, Juntendo University, Tokyo, Japan

Abstract: 18 Poster Session II
Travel Award Winner
Different Dosages of LPS Differentially Modulate Monocytes Responses
Ruoxi Yuan, Lili Lu. Biological Sciences, Virginia Tech, Blacksburg, VA

Abstract: 19 Poster Session II
Travel Award Winner
The role of Sirtuin1 during RSV infection: Autophagy, ER stress, and Innate Immunity
Samanthi Narayanan, Ania Owczarczyk, David Lombard, Susan Morris, Nicholas Lukacs. Department of Pathology, University of Michigan Medical School, Ann Arbor, MI

Abstract: 20 Poster Session II
Induction of Autophagy Increases Enterococcus Faecalis Clearance During Infection
Nathan Shankar, Jun Zou. College of Pharmacy, University of Oklahoma HSC, Oklahoma City, OK

Abstract: 21 Poster Session I
Evaluating the Toxicity of Flavored E-Cigarette Liquids on Human Peripheral Blood Neutrophils and Alveolar Macrophages
Phillip W. Clapp, Corshe’ Stanley, Shannon Jones, Ilona Jaspers. Center for Environmental Medicine, Asthma, and Lung Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC; Department of Biology, North Carolina Agricultural and Technical State University, Greensboro, NC

Abstract: 22 Poster Session II
Macrophage Production of Innate Immune Protein C1q Is Modulated During Clearance of Pathogens and AltereD-Self Targets
Ernesto Leon, Deborah Fraser. Department of Biological Sciences, California State University, Long Beach, CA

Abstract: 23 Poster Session I
Travel Award Winner
Transcriptomic Analysis of the Modulation of Programmed Responses in Human Macrophages by Complement Protein C1q During Clearance of Atherogenic Lipoproteins
Minh-Minh Ho, Deborah Fraser. Biological Sciences, California State University, Long Beach, Long Beach, CA

Abstract: 24 Poster Session II
Lipid Mediator Regulation of Disease
Ceramide Plays a Critical Role in Allergic Airway Disease
Jamie Lynn Sturgill, Clement Oyeniran, Nitai Hait, Dorit Avni, Michael Maceyka, Jason Newton, Jeremy Allegood, Alison Montpetit, Daniel Conrad, Sheldon Milstien, Sarah Spiegel. Virginia Commonwealth University, Richmond, VA

Abstract: 25 Poster Session II
A Novel Role for Oxysterols in Resolution of Airspace Neutrophilia
Michael Brian Fessler, Jennifer Madenspacher, Kymberly Gowdy, Kathleen Azzam, Jeffrey McDonald, Bonne Thompson, David Russell. National Institute of Environmental Health Sciences/NIH, Research Triangle Park, NC; East Carolina University, Greenville, NC; University of Texas Southwestern Medical Center, Dallas, TX
Abstract: 27 Poster Session I
Travel Award Winner
Pseudomonas Aeruginosa Promotes Persistent Inflammation in the Cystic Fibrosis Airway by Preventing the Generation of the Pro-Resolving Mediator 15-Epi Lipoxin A4
Becca Anne Flitter, Ono Emiko, Kelli Hvorecny, Christopher Bahl, Daniel Kwak, Xinyu Liu, Janet Lee, Dean Madden, Bruce Levy, Jennifer Bomberger. University of Pittsburgh, School of Medicine, Pittsburgh, PA; Brigham and Women’s Hospital, Harvard Medical School, Boston, MA; Geisel School of Medicine at Dartmouth, Hanover, NH

Abstract: 28 Poster Session II
The Endocannabinoid N-Arachidonoyl Dopamine Modulates TLR-Dependent Endothelial and Systemic Inflammation
Samira Khakpour, Alphonso Tran, Fengyun Xu, Kevin Wilhelmsen, Judith Hellman. Department of Anesthesia and Perioperative Care and Biomed, University of California San Francisco, San Francisco, CA

Abstract: 29 Poster Session I
Docosahexaenoic Acid Ethyl Ester Enhances Antibody Levels Upon Influenza Infection in Murine Obesity Accompanied by a Reduction in Circulating Resolvin D1
S. Raza Shaikh, Melinda Beck, Lance Bridges, Kymberly Gowdy, Heather Teague. East Carolina University, Greenville, NC; Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC

Abstract: 30 Poster Session II
Aspirin-Triggered Resolvin D1 Is Produced During Self-Resolving Escherichia Coli Pneumonia and Regulates Infiltrating Macrophages for the Resolution of Lung Inflammation
Raja-Elie Edward Abdulnour, Ho Pan Sham, David Douda, Romain Colas, Jesmond Dalli, Yan Bai, Xingbin Ai, Charles Serhan, Bruce Levy. Harvard Medical School / Brigham and Women’s Hospital, Boston, MA

Abstract: 31 Poster Session I
Expression of the Free Fatty Acid Receptor 4 (FFAR4/GPR120) in Bovine Neutrophils
Maria A. Hidalgo, Stefanie Teuber, Carlos Loncoman, Camilo Larrazabal, Karen Lopez, Rafael Burgos. Institute of Pharmacology, Universidad Austral de Chile, Valdivia, Chile

Abstract: 32 Poster Session II
Attenuation of Viral-Induced Pulmonary Disease by Lactobacillus Johnsonii Supplementation: Plasma Metabolites and Dendritic Cell Modulation.
Wendy Fonseca, Sihyung Jang, Andrew Rasky, Julia Peterson, Susan Morris, Kei Fuimura, Susan Lynch, Nicholas Lukacs. University of Michigan, Ann Arbor, MI; UCSF School of Medicine, San Francisco, CA

Abstract: 33 Poster Session I
Elevated MicroRNA-33 in Carbon Nanotube-Mediated Chronic Granulomatous Disease and Human Sarcoidosis Patients is Associated with Alveolar Macrophage Lipid Transporter Dysfunction.
Matthew K. McPeek, Anagha Malur, Michael Fessler, Christopher Wingard, Barbara Barna, Mary Jane Thomassen. Internal Medicine, East Carolina University, Greenville, NC; NIEHS, NIH, Research Triangle Park, NC

Abstract: 34 Poster Session II
Thorbecke Awardee (Bimczok), Travel Award Winner (Roe)
Retinoic Acid and Helicobacter Pylori Differentially Regulate CD103 (αE integrin) Expression by Human Dendritic Cells
Diane Bimczok, Mandi Roe, Steven Swain, Lesley Smythies, Phillip Smith, Diane Bimczok. Montana State University, Bozeman, AL; University of Alabama at Birmingham, Birmingham, AL

Abstract: 35 Poster Session I
Travel Award Winner
Sensing Pseudomonas aeruginosa Lipid a Variants by Neutrophils and Monocytes, the Key Players of Lung Inflammation in Cystic Fibrosis
Shuvasesree Sengupta, Silvia Uriarte, Thomas Mitchell, Robert Ernst. University of Louisville, Louisville, KY; University of Maryland, Baltimore, Baltimore, MD

Abstract: 36 Poster Session II
Loss of Polyisoprenyl Diphosphate Phosphatase 1 (PDPI) enhances bacterial clearance while attenuating neutrophil functions
David N. Douda, Troy Carlo, Raja Abdulnour, Bruce Levy. Pulmonary and Critical Care Medicine Division, Brigham and Women’s Hospital/Harvard Medical School, Boston, MA
**Immunologic Mechanisms of Vaccination**

**Abstract: 37**

**Poster Session I**

W&D Paper of the Year

Antibodies Are Necessary for rVSV/ZEBOV-GP Mediated Protection Against Lethal Ebola Virus Challenge in Nonhuman Primates

Ilhem Messaoudi, Andrea Marzi, Flora Engelmann, Heinz Feldmann. University of California, Riverside, Riverside, CA; National Institutes of Health, Hamilton, MT

**Abstract: 38**

**Poster Session II**

Travel Award Winner

Uncovering Mechanisms of Protection Against Ebola Virus Infection Conferred by Recombinant VSV-GP Vaccine

Andrea Rivera, Suhas Sureshchandra, Andrea Marzi, Heinz Feldmann, Ilhem Messaoudi. University of California Riverside School of Medicine; Rocky Mountain Laboratories, National Institute of Allergy and Infectious Diseases, Hamilton, MT

**Abstract: 39**

**Poster Session I**

Differential Effects of HIV Latency Reversing Agents on T Cell Phenotype and Function: Implications for HIV cure


**Abstract: 40**

**Poster Session II**

Modulation of Th2-Associated Allergic Immune Responses With Mucosal Nanoemulsion-Based Vaccines

Jessica Jane O’Konek, Rishi Goel, Katarzyna Janczak, Jeffrey Landers, Anna Mondrusov, James Baker, Jr.. University of Michigan Health System, Ann Arbor, MI

**Abstract: 41**

**Poster Session I**

EMMPRIN Inhibition Using a Novel Epitope-Specific Antibody Reduces Tumor Progression

Michal A. Rahat, Miriam Walter, Elina Simanovich, Vera Brod, Nitza Lahat, Haim Bitterman. Immunology Research Unit, Carmel Medical Center and Technion, Haifa, Israel; Ischemia-shock Research Laboratory, Carmel Medical Center and Technion, Haifa, Israel

**Abstract: 42**

**Poster Session II**

Echinacea Purpurea Root Polysaccharide Enhances TLR7 Binding Adjuvant Imiquimod Mediated Activation of Innate Immunity

David Fast. Amway Global R&D, Ada, MI

**Microbiome and Mucosal Immunity**

**Abstract: 43**

**Poster Session I**

TLR2, a Chitin Binding Protein, in Phagocytosis and M1 Activation by Chitin Microparticles

Yoshimi Shibata, Spring Davis, C Kathleen Dorey, Jinnan Yang, Changleong Nan. Department of Biomedical Sciene, Florida Atlantic University, Boca Raton, FL; Carilion School of Medicine and Research Inst, Virginia Tech, Roanoke, VA

**Abstract: 44**

**Poster Session II**

Travel Award Winner

Vaccine-mediated immunity to experimental Mycobacterium tuberculosis is intact in the absence of Toll-like receptor 9

Archana Gopalakrishnan, Jillian Dietzold, Padmini Salgame. Department of Medicine, Rutgers-New Jersey Medical School, Newark, NJ

**Abstract: 45**

**Poster Session I**

Impact of Androgen Supplementation on Immune Senescence in Aged Macaques

Maham Rais, Randall Wilson, Henryk Urbanski, Ilhem Messaoudi. School of Medicine, University of California, Riverside; Oregon Health and Science University, Portland, OR

**Abstract: 46**

**Poster Session II**

Characterizing the Nasal Resident Natural Killer Cell: Defining a Role in the Respiratory Innate Immune Response

Erica Ann Pawlak, Ilona Jaspers. Center for Environmental Medicine Asthma and Lung Biology, University of North Carolina at Chapel Hill, Chapel Hill, NC

**Abstract: 47**

**Poster Session I**

Travel Award Winner

Changes in the Lung Microbiome Induced by Exposure to Tobacco Smoke in Healthy Mice and Mice With Chronically Inflamed Airways

Michelle Engle, Bryan Zorn, Corey Jania, Jessica Martin, Matthew Wolfgang, Claire Doerschuk. University of North Carolina at Chapel Hill, Chapel Hill, NC
Inflammasomes and Inflammatory Disease

Abstract: 48  Presidential Student Award Finalist
Inflammation Associated CHI3L1 Alters the Pulmonary Microenvironment Supporting Breast Cancer Metastasis
Stephania Libreros, Nathalia Gazaniga, Camilla Castro, Ramon Garcia-Areas, Vjaya Iragavarapu-Charyulu. Basic Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL

Abstract: 49  Travel Award Winner
Targeted Protein Kinase C-delta Inhibition Is Organ-Protective and Improves Pathogen Clearance in Sepsis
Elisabetta Liverani, Mark Mondrinos, Shuang Sun, Sarah Tursi, Çağla Tükel, Laurie Kilpatrick. Temple University School of Medicine, Philadelphia, PA

Abstract: 50  Expression of the Melanocortin-Adenosinergic Pathway in Human Uveitis Patients
Darren J. Lee, Andrew Taylor. Ophthalmology, University of Oklahoma Health Sciences Center and Dean McGee, Oklahoma, OK; Ophthalmology, Boston University School of Medicine, Boston, MA

Abstract: 51  Beyond the Inflammasome: Regulatory NLRs in Inflammation and Tumorigenesis
Irving Coy Allen. Department of Biomedical Sciences and Pathobiology, Virginia Tech, Blacksburg, VA

Abstract: 52  Travel Award Winner
Multiparametric Single-Cell Analysis of Natural Killer Cell Responses to Infection With West Nile Virus
Yi Yao, Dara Strauss-Albee, Catherine Blish, Ruth Montgomery. Department of Internal Medicine, Yale University School of Medicine, New Haven, CT; Immunology, Stanford University School of Medicine, Stanford, CA

Abstract: 53  Population Distribution of Interleukin 1 Beta And its Receptor Antagonist in Standardbred Race Horses Via Novel Validated Enzyme-Linked Immunosorbent Assays
Jin-Wen Chen, Zibin Jiang, Darko Stefanovski, Raymond Boston, Lawrence R. Soma, Mary A. Robinson. University of Pennsylvania School of Veterinary Medicine, Kennett Square, PA; Pennsylvania Equine Toxicology & Research Laboratory, West Chester, PA

Abstract: 54  Absence of IL-6 Impairs Thrombus Resolution Through Reduced Mmps and uPA Expression in Murine Deep Vein Thrombosis Model
Mizuho Nosaka, Yoko Ishida, Akihiko Kimura, Yumi Kuninaka, Naofumi Mukaida, Toshikazu Kondo. Forensic Medicine, Wakayama Medical University, Wakayama, Japan; Division of Molecular Bioregulation, Cancer Research Inst, Kanazawa University, Kanazawa, Japan

Abstract: 55  Travel Award Winner
Pellino-1 Positively Regulates Toll-like Receptor (TLR) 2 and TLR4 Signaling and is Suppressed upon Induction of Endotoxin Tolerance
Michael Murphy, Yanbao Xiong, Goutham Pattabiraman, Andrei Medvedev. University of Connecticut Health Center, Farmington, CT; University of Maryland School of Medicine, Baltimore, MD

Abstract: 56  The Role of Guanylate Binding Proteins as Regulators of Inflammasome Activation
Jörn Coers. Duke University Medical Center, Durham, NC

Abstract: 57  Endotoxin Tolerance Inhibits Phosphorylation of Lyn and c-Src and their Recruitment to TLR4 and Increases Total Phosphatase Activity and Expression of PTP1b, PP2A and PTPN22
Tissa Thomas Manavalan, Goutham Pattabiraman, Michael Murphy, Yanbao Xiong, Hui-Hsin Chang, I-Cheng Ho, Andrei Medvedev. Department of Immunology, University of Connecticut Health Center, Farmington, CT; University of Maryland School of Medicine, Baltimore, MD; Department of Medicine, Brigham and Women’s Hospital, Boston, MA

Abstract: 58  Type I interferons as Suppressors of TLR Dependent Innate Responses to Salmonella Typhimurium
Darren J. Perkins, Sharon Tennant, Stefanie Vogel. Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD; Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD
Abstract: 60  Poster Session II
NADPH Oxidase 2 Has An Essential Anti-Inflammatory Role in the Lung
Renee Potera, Laura Whitmore, Elizabeth Handren, Xiao-tie Liu, Jessica Hook, Jessica Moreland. Department of Pediatrics, UT Southwestern Medical Center, Dallas, TX; Internal Medicine, University of Iowa, Iowa City, IA

Abstract: 61  Poster Session I
Oviduct Pathology During Chlamydia Muridarum Infection-The Exclusive Contribution of IL-1a Signaling.
Uma M. Nagarajan, John Allen IV, Manoj Tripathy, Yugen Zhang. Pediatrics/Microbiology-Immunology, University of North Carolina School of Medicine, Chapel Hill, NC

Abstract: 62  Poster Session II
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Mesalamine Treatment Reduces Intestinal Inflammation and Restores Gut Barrier Integrity After Burn Injury
Abigail Cannon, Adam Hammer, Niya Morria, Suhail Akhtar, Mike Javorski, Hamza Azim, Xiaoling Li, Richard Kennedy, Richard Gamelli, Mashkoor Choudhry. Loyola University Medical Center, Maywood, IL; Northwestern University Chicago, Chicago, IL

Abstract: 63  Poster Session I
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PI3P-dependent Generation of ROS Regulates Inflammatory Response
Juhi Bagaitkar, Emilia Barbu, Guangming Huang, Sabine Pallat, Phill Hawkins, Len Stephens, Mary Dinauer. Department of Pediatrics, Washington University, School of Medicine in St. Louis, St. Louis, MO; Inositide Laboratory, the Babraham Institute, Cambridge, UK

Abstract: 64  Poster Session II
Pulmonary Microvascular Endothelial Cells: a Significant Source of Angiopoietin-2 in the Pathogenesis of ARDS
Joanne Lomas-Neira, Daithi Heffernan, Alfred Ayala, Chun-Shiang Chung. Department of Surgery, Rhode Island Hospital/Brown University, Providence, RI

Abstract: 65  Poster Session I
Expression Profile of Innate Immune Receptors, NLRs and AIM2, in Human Colorectal Cancer: Correlation With Cancer Stages and Inflammmasome Components
Agieszka D. Truax, Rongrong Liu, Liang Chen, Peizhen Hu, Zengshan Liu, Jun Chen, Chaojun Song, Lihua Chen, Jenny Pan-Yun Ting. University of North Carolina at Chapel Hill, Lineberger Cancer Center, Chapel Hill, NC; Xijing Hospital, Fourth Military Medical University, Xi’an, China; Traditional Chinese Medicine Hospital of Shan Xi Province, Xi’an, China

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Fibrosis and Tissue Repair
Development of Aggressive Pancreatic Ductal Adenocarcinomas (PDAC) Depends on G-CSF Secretion from Carcinoma Cells
Sergey Novitskiy, Philip Owens, Agnes Gorska, Anna Chytil, Valerie LeBleu, Hanane Laklai, Valerie Weaver, Raghu Kalluri, Hal Moses. Department of Cancer Biology, Vanderbilt University School of Medicine, Nashville, TN; MD Anderson Cancer Center, Houston, TX; USCF, San Francisco, CA

Abstract: 67  Poster Session I
Stress Induced Heat Shock Transcription Factor 1 (HSF1) Orchestrates Inflammatory Cytokines and Fibrogenic Genes to Regulate Liver Fibrosis
Pranoti Mandrekar, Arlene Lim. Department of Medicine, University of Massachusetts Medical School, Worcester, MA

Abstract: 68  Poster Session II
DC-SIGN Activation Alleviates Acute Lung Injury and Pulmonary Fibrosis in Mice
Nehemiah Cox, Darrel Pilling, Richard Gomer. Department of Biology, Texas A&M University, College Station, TX

Abstract: 69  Poster Session I
HIV-1 Transgenic Rats Display Alterations in Gene Expression Associated With Aging in Liver
Sulie Chang, Jianlin He, Yufeng Wei. Seton Hall University, South Orange, NJ; Institute of Oceanography, Xiamen, China

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Substrate Stiffness Modulates Endothelial Cell Functions Important in Neutrophil Adhesion and Migration
Cornelia Hahn, Gang Cheng, David Scott, Keith Burridge, Claire Doeschuk. University of North Carolina, Chapel Hill, NC

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ESAT-6 Exacerbates Inflammation and Fibrosis in a Multi-wall Carbon Nanotube MWCNT Model of Pulmonary Granulomatous Disease
Anagha Malur, Barbara Barna, Matthew McPeek, Larry Dobbs, Christopher Wingard, Mary Jane Thomassen. Internal Medicine - Pulmonary & Critical Care, East Carolina University, Greenville, NC

Abstract: 72  Poster Session II
Low-Grade Inflammatory Polarization of Innate Monocytes by Super-Low Dose Endotoxin
Keqiang Chen, Ruoxi Yuan, Shuo Geng, Na Diao, Liwu Li. Department of Biological Sciences, Virginia Tech, Blacksburg, VA
DC and Macrophages in Tumorigenesis and Inflammation

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RSV-induced H3K4 demethylase KDM5B Leads to Regulation of Dendritic Cell-Derived Innate Cytokines and Exacerbates Pathogenesis in Vivo
Catherine Ptaschinski, Sumanta Mukherjee, Martin Moore, Mareike Albert, Kristian Helin, Steven Kunkel, Nicholas Lukacs. University of Michigan, Ann Arbor, MI; Emory University, Atlanta, GA; Biotech Research and Innovation Centre, University of Copenhagen, Copenhagen, Denmark

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Low-grade Inflammatory Programming of Innate Monocytes Through Disruption of Lysosome Function by Super-Low-Dose Endotoxin
Shuo Geng, Liwu Li. Department of Biological Sciences, Virginia Tech, Blacksburg, VA

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Vito Pistola, Emma Di Carlo, Claudio Tripodo, Maurilio Ponzoni, Elisa Ferretti. G. Gaslini Institute, Genoa, Italy; University of Chieti, Chieti, Italy; University of Palermo, Palermo, Italy; S. Raffaele Hospital, Milan, Italy

Abstract: 76  Poster Session II
A New TLR Adaptor Pathway Linked to Inflammatory Cytokine Production from Macrophages
Matthew J. Sweet, Nilesh Bokil, Lin Luo, Adam Wall, Faustine Marceline, Natalie Lansdaal, Jennifer Stow. Institute for Molecular Bioscience, University of Queensland, Brisbane, Australia

Abstract: 77  Poster Session I
Toxoplasma gondii Interferes With Virus-Induced Induction of Interferon-a in Human Plasmacytoid Dendritic Cells by Functional Mimicry of IL-10
Patricia Fitzgerald-Bocarsly, Piotr Pierog, Yanlin Zhao, Sukhinder Singh, Jihong Dai, George Yap. Pathology and Laboratory Medicine, Rutgers New Jersey Medical School, Newark, NJ

Abstract: 78  Poster Session II
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Ablation of Host-Derived Semaphorin7A Decreases Tumor Progression in a Murine Model of Metastatic Breast Cancer
Ramón A. García-Áreas, Stephanie Libreros, Michael Simoes, Nathalia Gazaniga, Vijaya Iragavarapu. Florida Atlantic University, Boca Raton, FL

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An Essential Role for Interferon-beta in the Induction of Interferon-Stimulated Gene Expression by LPS in Macrophages
Raymond P. Donnelly, Faruk Sheikh, Harold Dickensheets, Ana Gamera, Stefanie Vogel. Food and Drug Administration, Silver Spring, MD; Temple University School of Medicine, Philadelphia, PA; University of Maryland School of Medicine, Baltimore, MD

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Pellino-3 Promotes Endotoxin Tolerance and Acts as a Negative Regulator of TLR2 and TLR4 Signaling
Andrei Medvedev, Michael Murphy, Goutham Pattabiraman, Tissa Manavalan, Yanbao Xiong. University of Connecticut Health Center, Farmington, CT; University of Maryland School of Medicine, Baltimore, MD

Abstract: 81  Poster Session I
Biologic Significance of a Gonococcal Histone Deacetylase in Macrophage Infection
Susu M. Zughaier. Department of Microbiology & Immunology, Emory University, Atlanta, GA

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Emily M. Smith, Suzanne Bohlson. Department of Microbiology and Immunology, Des Moines University, Des Moines, IA

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Anti-inflammatory modulation of macrophage phenotype for therapeutic application in implantation
Vladimir Riabov, Alexandru Gudima, Alexei Gratchev, Harald Klüter, Julia Kbizhkovska. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany

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High Glucose Differentially Affects Expression of Tlrs in Human Macrophages: Potential Mechanism of Chronic Inflammation in Diabetes
Michael Balduff, Vladimir Riabov, Kondaiah Moganti, Feng Li, Martin Harmsen, Galileo Escobedo, Alexei Gratchev, Julia Kbizhkovska. Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany; University Medical Centre Groningen, University of Groningen, Groningen, Netherlands; National University of Mexico, Mexico City, Mexico

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Mechanism for the Lipopolysaccharide-Induced Release of High Mobility Group Nucleosome-Binding Domain-1 from Murine Macrophage Like RAW264.7
Taisuke Murakami, Zhongshuang Hu, Kaori Suzuki, Hiroshi Tamura, Isao Nagaoka. Host Defense and Biochem. Research, Juntendo University School of Medicine, Tokyo, Japan; LPS Consulting Office, Tokyo, Japan
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Matthew Schaller, Cheryl Day, Ronald Allen, Nicholas Lukacs, Steven Kunkel. Department of Pathology, University of Michigan, Ann Arbor, MI; Department of Microbiology and immunology, Emory University, Atlanta, GA

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mTORC1-TBK1 Interaction Is Required for Macrophage Signaling and Activation
Robert Hagan, Olesya Chornoguz, Samuel Collins, Jose Torres-Castillo, Jonathan Powell, Claire Doerschuk. Division of Pulmonary Diseases and Critical Care Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC; Department of Oncology, Johns Hopkins University School of Medicine, Baltimore, MD

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Jennifer Granick. Veterinary Clinical Sciences, University of Minnesota, St. Paul, MN

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Treg/Th17 Balance in Inflammatory Disease
Increased Th17 Response to Gammaherpesvirus Infection Is Essential for the Development of Pneumonitis and Fibrosis in Mice Post Bone Marrow Transplantation
Xiaofeng Zhou, Hillary Loomis-King, Stephen Gurczynski, Carol Wilke, Linda van Dyk, Nicholas Lukacs, Bethany Moore. University of Michigan, Ann Arbor, MI; University of Colorado, Aurora, CO

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Notch Mediated Regulatory T Cells Development Is Maintained by An Epigenetic Mechanism
Hung-An Ting, Denise de Almeida Nagata, Matthew Schaller, Steven Kunkel, Ivan Maillard, Nicholas Lukacs. Department of Pathology, University of Michigan, Ann Arbor, MI

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Foxp3+ Regulatory T Cells Enhance Lung Epithelial Repair Following Acute Lung Injury
Jason Robert Mock, Catherine Dial, Franco D’Alessio, Claire Doerschuk. Department of Medicine, University of North Carolina School of Medicine, Chapel Hill, NC; Department of Medicine, Johns Hopkins University, Baltimore, MD

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Rebalancing Tregs by Directly Targeting Epigenetic and Mitochondrial Processes During Sepsis
Ayana Martin, Martha Alexander-Miller, Vidula Vachharajani, Charles McCall. Wake Forest University School of Medicine, Winston-Salem, NC

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Gimap5 Is Essential for GSK3ß Inhibition During T Cell Activation Controlling the Transcriptional Program Required for Proliferation and Th17/Treg Differentiation
Kasper Hoebre, Andrew Patterson, Mehran Endale, Kristin Lampe, Jim Woodgett. Cincinnati Children’s Hospital Medical Center, Cincinnati, OH; Lunenfeld-Tanenbaum Res. Institute at Mount Sinai Hospital, Toronto, Canada

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Integrative Studies on 3,3’-Diindolylmethane Triggered Regulation of Th17 and Treg Cells in Ameliorating Multiple Sclerosis Through Microbiome-Host Interplay
Farhan Zameer, David Elliott, Haider Alrafas, Brandon Busbee, Elizabeth Zumbrum, Prakash Nagarkatti, Mitzi Nagarkatti. Wm. Jennings Bryan Dorn VAMC / Univ. of South Carolina, Columbia, SC
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<td>Nicole Lavender, Jiqing Sai, Jinming Yang, Ann Richmond. Department of Cancer Biology, Vanderbilt University Medical Center, Nashville, TN</td>
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Jacob Stafford Edmisson, Cortney Armstrong, Silvia Uriarte, Shifu Tian, Richard Lamont. University of Louisville, Louisville, KY

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Anne Kasus-Jacobi, Amanda Brock, Glenn Prestwich, H Pereira. University of Oklahoma Health Sciences Center, Oklahoma City, OK; University of Utah, Salt Lake City, UT

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Emily Gray Medlin, Samuel Jones. Department of Clinical Sciences, NC State University College of Veterinary Medicine, Raleigh, NC

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Zhongshuang Hu, Kaori Suzuki, Hiroshi Tamura, Isao Nagaoka. Host Defense and Biochemical Research, Juntendo University Graduate School of Medicine, Tokyo, Japan; LPS Consulting Office, Tokyo, Japan

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Fermin Ernesto Guerra, Conrad Addison, Kyler Pallister, Jovanka Voyich. Montana State University, Bozeman, MT; University of Washington, Seattle, WA

Abstract: 121  
CFTR dysfunction in myeloid cells causes persistent neutrophilic inflammation in cystic fibrosis  
Guoshun Wang, Hang Pong Ng, William Nauseef. Microbiology and Immunology, Louisiana State University Health Sciences Center, New Orleans, LA; Medicine, University of Iowa, Iowa City, IA

---

**Neuro-Immune Interactions**

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Travel Award Winner  
The Neutrophil Protein CAP37 Disrupts the Amyloid Beta-RAGE Interaction  
Amanda J. Brock, Anne Kasus-Jacobi, Glenn Prestwich, Anne Pereira. College of Pharmacy, Oklahoma Center for Neurosciences, Oklahoma City, OK; University of Oklahoma Health Sciences Center, Oklahoma City, OK; University of Utah, Salt Lake City, UT
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Acute Simian Varicella Infection Causes Robust and Sustained Changes in Gene Expression in the Sensory Ganglia
Nicole Arnold, Thomas Girke, Suhas Sureshchandra, Ilhem Messaoudi. University of California, Riverside, Riverside, CA

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THC Treatment During Activation in Human Peripheral Blood Mononuclear Cells Suppresses HIV-1 Infection of CD4 T Lymphocytes
Julie Williams, Sofia Appelberg, Thomas Klein, Bruce Goldberger, John Slesman, Maureen Goodenow. University of Florida College of Medicine, Gainesville, FL; University of South Florida, Tampa, FL; Duke University Medical Center, Durham, NC

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IL-10 Mediated Neuroprotection Plays a Significant Role in the Immune Response to CNS Catheter Infection With S. Epidermidis in Young Hosts
Jessica Snowden, Gwenn Skar, Yenis Gutierrez-Murgas, Matthew Beaver. University of Nebraska Medical Center, Omaha, NE

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Metabolic Regulation of Tumor Infiltrating Lymphocytes
Lelisa F. Gemta, Timothy Bullock. Department of Pathology, University of Virginia, Charlottesville, VA

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Metabolic Damage and Premature Thymus Aging Caused by Stromal Catalase Deficiency
Ann Venables Griffith, T. Venables, J. Shi, A. Farr, H. Remmen, L. Szweda, M. Fallahi, P. Rabinovitch, H. Petrie. University of Texas Health Science Center at San Antonio, TX; the Scripps Research Institute, Jupiter, FL; the University of Washington, Seattle, WA; the Oklahoma Medical Research Foundation, Oklahoma City, OK

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Nuclear TRAF3 Inhibits CREB-Mediated Survival and Metabolic Reprogramming in B Lymphocytes
Nurbek Mambetsariev, Wai Lin, Laura Stunz, Brett Hanson, Gail Bishop. University of Iowa, Iowa City, IA

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High Glucose Regulates Cytokines Responses in Human Macrophages
Kondaiah Moganti, Feng Li, Sarah Riemann, Harald Klüter, Martin Harmsen, Alexei Grachev, Julia Kzhushkowska. Medical Faculty Mannheim, Heidelberg University, Germany; German Red Cross Blood Service Baden-Württemberg – Hessen, Mannheim, Germany; University Medical Center Groningen, University of Groningen, The Netherlands; Tomsk State University

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Vladimir Riabov, Laura Matuschek, Kondaiah Moganti, Alexandru Gudima, Nihal Engin Vrana, Philippe Lavalle, Harald Klüter, Julia Kzhushkowska. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany; Protei SAS, Strasbourg, France; Institut National de la Santé et de la Recherche Médicale, Strasbourg, France

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Dynamic Role of Toll-interacting Protein in the Inflammatory Response
Elizabeth Ashley Kowalski, Liwu Li. Virginia Tech, Blacksburg, VA

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Vladimir Riabov, Laura Matuschek, Kondaiah Moganti, Alexandru Gudima, Nihal Engin Vrana, Philippe Lavalle, Harald Klüter, Julia Kzhushkowska. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany; Protei SAS, Strasbourg, France; Institut National de la Santé et de la Recherche Médicale, Strasbourg, France

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Ryan Robert Budin, Marc Pulanco, Jason Cosman, Minh-Minh Ho, Deborah Fraser. California State University Long Beach, CA

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Zibin Jiang, Jinwen Chen, Mary Robinson, Lawrence Soma. University of Pennsylvania School of Veterinary Medicine, Kennett Square, PA

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Elizabeth a Fitzpatrick, Stephanie Nance, Kelly Andrews. Univ of Tennessee Hlth Sci Ctr, Memphis, TN

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Anna Alicia Koblansky, Justin Wilson, Alex Petrucelli, Liang Chen, Monika Schneider, Agnieszka Truax, Yuli Wang, W. Bricey, Alrin Rogers, Marcus Muhlbaier, Wei-chun Chou, Nancy Allbritton, Beckley Davis, Jenny Ting. University of North Carolina at Chapel Hill, Lineberger Comprehensive Cancer Center, Chapel Hill, NC

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Devin Michael Boe, Jessica Palmer, Mary Jane Thomassen, Elizabeth Kovacs, Brenda Curtis. Loyola University Chicago, Burn and Shock Trauma Research Institute, Maywood, IL; East Carolina University, Brody School of Medicine, Greenville, NC

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Wendy Liu. University of California Irvine, Biomedical Engineering, Irvine, CA

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Patricia Kiesler, Lili Xu, Ivan Fuss, Atsushi Kitani, Warren Strober. NIH, Laboratory of Host Defenses, Bethesda, MD; Zhongshan Hospital, Fudan University, Shanghai

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Cortisol-Treated Zebrafish Embryos Develop a Pro-Inflammatory Adult Phenotype With Reduced Regenerative Capacity
James Coffman, Ellen Hartig, Shusen Zhu, Benjamin King. MDI Biological Laboratory, Davis Center for Regenerative Biology and Medicine, Salisbury Cove, ME

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PLENARY TOPICS
Leukocytes in Host-Pathogen Interactions
Leukocytes in the Tumor Microenvironment
Metabolic and Autoimmune Diseases
Receptors, Signaling and Soluble Mediators

CONCURRENT SESSION TOPICS
Functional genomics
Myeloid Subsets
Cytokines in Inflammation and immunity
The expanding world of leukocytes
Neutrophil trafficking and effector functions
Emerging topics and methodologies in neutrophil biology
Advances in neutrophil differentiation and neutrophil-mediated inflammation resolution

INVITED SPEAKERS
Lee Ann Allen
Yasmine Belkaid
Triantafyllos Chavakis
Marco Colonna
Evgeniy Eruslanov
Muzlifah Haniffa
Clifford Lowell
Alberto Mantovani
Peter Murray
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SUNDAY, SEPTEMBER 27

7:30am - 6:00pm
Registration Desk Open
LOCATION: Grand Ballroom Foyer

8:00am - 1:00pm
Satellite Symposium on Alcohol and Immunology: Neuroimmunoendocrine Effects of Alcohol
LOCATION: Dogwood & Boxwood
(Pre-registration required)

11:00am - 12:30pm
Poster Talks: Highlighted Poster Session Presentations
LOCATION: Grand Ballroom 3

12:30 - 6:00pm
Exhibits
LOCATION: Grand Ballroom Foyer

1:30 - 3:00pm
Welcome and Plenary I - Autophagy, Cellular Stress and Innate Immunity
LOCATION: Grand Ballroom 4&5

3:00 - 4:30pm
SLB Presidential Nominees
LOCATION: Grand Ballroom 4&5

4:30 - 4:45pm
Coffee Break
LOCATION: Grand Ballroom Foyer

4:45 - 6:00pm
Senior Level Awards
LOCATION: Grand Ballroom 4&5

6:00 - 7:00pm
Opening Reception
LOCATION: Grand Ballroom Foyer

7:00 - 8:00pm
Keynote Lecture
LOCATION: Grand Ballroom 4&5
Bonazinga Winner, Sponsored by Accurate Chemical

8:00pm - 9:30pm
Street Smarts of Science
LOCATION: Dogwood & Boxwood
(Pre-registration required)

8:00 - 9:00am
Networking Breakfast
LOCATION: Breakfast provided in Lofton’s Corner with additional seating in Grand Ballroom 1&2

9:00 - 10:30am
Plenary II - Epigenetics and Immunity
LOCATION: Grand Ballroom 4&5

10:30 - 11:00am
Coffee Break
LOCATION: Grand Ballroom Foyer

11:00am - 12:30pm
Poster Session I - Lunch
LOCATION: Capital Ballroom

2:00 - 3:30pm
Plenary III - Microbiome and Mucosal Immunity
LOCATION: Grand Ballroom 4&5

3:30 - 4:00pm
Coffee Break
LOCATION: Grand Ballroom Foyer

4:00 - 5:30pm
Concurrent Sessions
CS 3 - Inflammasomes and Inflammatory Disease
LOCATION: Grand Ballroom 4&5
CS 4 - Fibrosis and Tissue Repair
LOCATION: Grand Ballroom 3

5:30 - 7:00pm
MTTG Session: “Career Transitions”
LOCATION: Boxwood
(Pre-registration required)

7:00 - 9:00pm
Social Mixer
LOCATION: Bahama Breeze

MONDAY, SEPTEMBER 28

7:00 - 9:00am
Women and Diversity Special Session
LOCATION: Boxwood
(Pre-registration required)

8:00am - 5:00pm
Registration Desk Open
LOCATION: Grand Ballroom Foyer

8:00am - 5:00pm
Exhibits
LOCATION: Grand Ballroom Foyer

8:00 - 9:30am
Grant Writing Session Breakfast
LOCATION: Dogwood & Boxwood - breakfast provided.
(Pre-registration required)

8:00am - 4:30pm
Registration Desk Open
LOCATION: Grand Ballroom Foyer

TUESDAY, SEPTEMBER 29

7:00 - 8:30am
Grant Writing Session Breakfast
LOCATION: Dogwood & Boxwood - breakfast provided.
(Pre-registration required)

8:00am - 4:30pm
Exhibits
LOCATION: Grand Ballroom Foyer

8:00 - 9:30am
Coffee Break
LOCATION: Grand Ballroom Foyer

8:30 - 9:30am
Immunology in the News:
Special Breakfast Session, with Ian Crozier,
Infectious Diseases Institute, Kampala, Uganda
LOCATION: Breakfast provided in Lofton’s Corner. Presentation will be in Grand Ballroom 4&5

9:30 - 11:00am
Concurrent Sessions
CS 5 - DC and Macrophages in Tumorigenesis and Inflammation
LOCATION: Grand Ballroom 4&5
CS 6 - Treg/Th17 Balance in Inflammatory Disease
LOCATION: Grand Ballroom 3

11:00 - 11:15am
Coffee Break
LOCATION: Grand Ballroom Foyer

11:15 - 12:45pm
Concurrent Sessions
CS 7 - Neutrophils in Health and Disease
LOCATION: Grand Ballroom 4&5
CS 8 - Best of Journal of Leukocyte Biology
LOCATION: Grand Ballroom 3

12:45 - 2:15pm
Poster Session II - Lunch
LOCATION: Capital Ballroom

2:15pm
Member Business Meeting and Presidential Award Announcements
LOCATION: Grand Ballroom 4&5

2:30 - 4:00pm
Plenary IV - Neuro-Immune Interactions
LOCATION: Grand Ballroom 4&5

4:00 - 4:15pm
Coffee Break
LOCATION: Grand Ballroom Foyer

4:15 - 5:45pm
Plenary V - Metabolic Control of Immunity
LOCATION: Grand Ballroom 4&5

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