



Immunity in Health and Disease

September 27-29, 2015

Hilton North Raleigh/Midtown | Raleigh, NC

Organizers: Elizabeth Kovacs and Nicholas Lukacs

PROGRAM BOOK



www.leukocytebiology.org

THANK YOU TO THE SUPPORTERS OF THE 2015 SLB MEETING!

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National Institute of
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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.

WELCOME LETTER

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, there is a panel discussion directed towards postdoctoral fellows and junior faculty called the Members in Transition and Training Group, MTTG. Also new this year, 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



SPECIAL OPPORTUNITY FOR

JLB

JOURNAL OF LEUKOCYTE BIOLOGY

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



Program Book

Follow the meeting on Twitter!

#Leukocyte2015



Abstract Book

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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 Edmisson, 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, Montana State University

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

Hemant Kumar 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

jljb@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.

3942 Valley Ave. Sute 8
Pleasanton, CA 94566

Tel: 925-485-4531

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

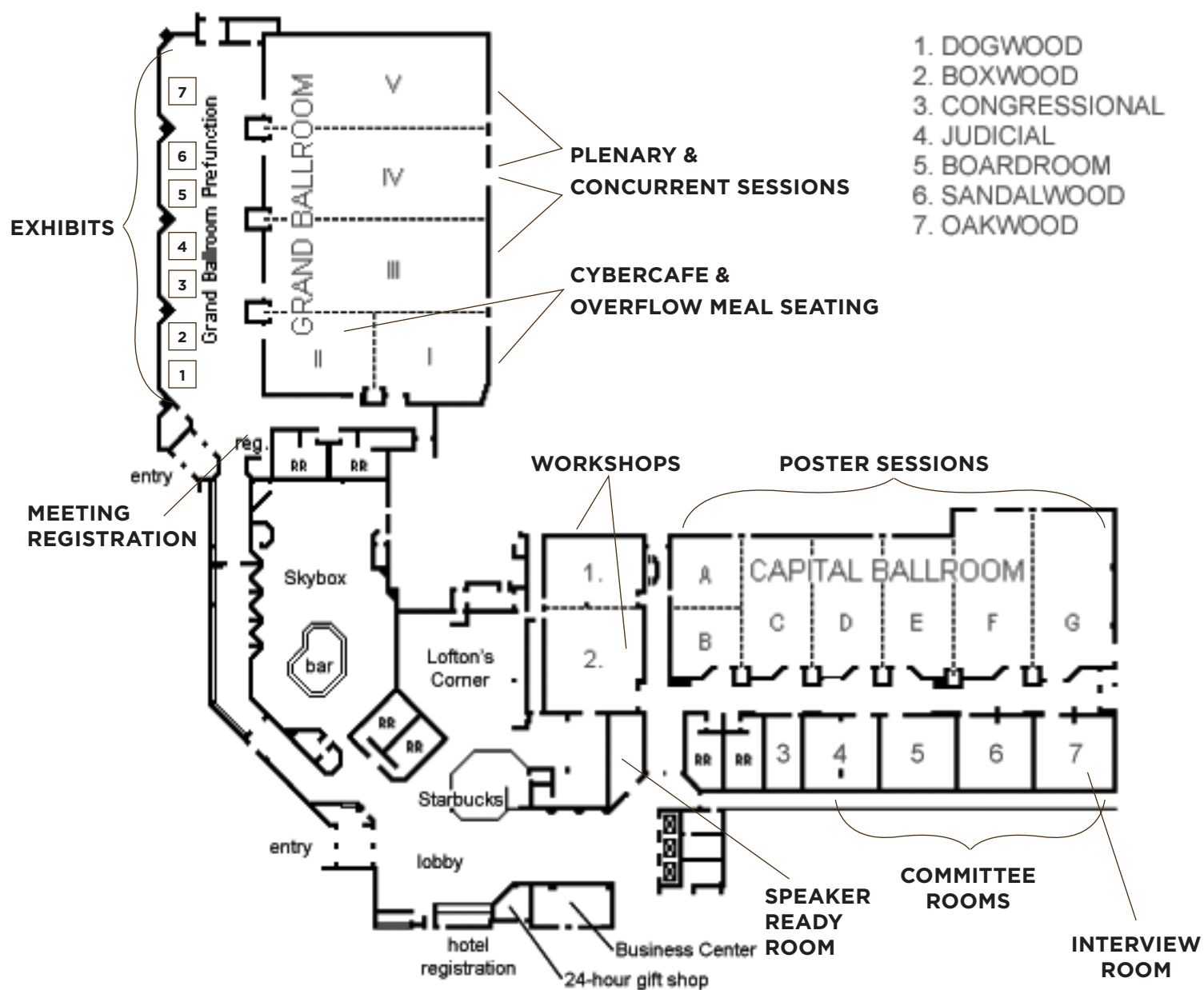
www.CaymanChem.com

Onsite Representative: Jenna Hendershot



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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 hors 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 CommitteeOakwood

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 *abstract 1*
- 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 *abstract 2*
- 9:15am **Alcohol abuse is associated with enhanced pulmonary xanthine oxidoreductase activity**, Ellen L. Burnham, University of Colorado Denver *abstract 3*
- 9:30am **Combined alcohol and cigarette smoke exposure decreases repair/restorative cytokines in mouse lung**, Todd A. Wyatt, University of Nebraska Medical Center *abstract 4*
- 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-naïve HIV-infected Russians with a recent history of heavy drinking?** Kaku So-Armah, Boston Univ. School of Medicine *abstract 5*
- 11:15am **Generation of murine stem cell derived hepatoblast as a transplantable cell source to treat chronic alcoholic liver disease**, Trinidad Cisneros, Stanford University *abstract 6*
- 11:30am **Ethanol induces GILZ gene expression to modulate cell immune response through a non-canonical GR trans-activation**, Guoshun Wang, Louisiana State Univ. *abstract 7*

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**, Mandi Roe, *abstract 34* Travel Award Winner
- **Gimap5 is essential for GSK3 β inhibition during T cell activation controlling the transcriptional program required for proliferation and Th17/Treg differentiation**, Kasper Hoebe, *abstract 95*
- **Integrative studies on 3,3'-diindolylmethane triggered regulation of Th17 and Treg cells in ameliorating multiple sclerosis through microbiome-host interplay**, Farhan Zameer, *abstract 96* Travel Award Winner
- **Notch Signaling Regulates T-cell Cytokine Expression in Response to MHV-68 Infection Following Bone Marrow Transplantation**, Stephen J Gurczynski, *abstract 97*

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 KDM5B 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 Soroush, 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 McCall, Wake Forest Baptist Medical Center

10:00am **Genomic Switches and Lymphocyte Identity**, John O'Shea, NIH/NIAIS

10:30 - 11:00am

Coffee Break

LOCATION: Grand Ballroom Foyer

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**, Nilukshi 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.



SCIENTIFIC PROGRAM

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: Stephania 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 Ilhem 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 Cambroner, 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

SCIENTIFIC PROGRAM

8:30 - 9:30am

Immunology in the News: Special Breakfast Session

LOCATION: Breakfast provided Lofton's in Corner Presentation will be in Grand Ballroom 4&5

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 4&5

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*

10:30am **Foxp3+ Regulatory T Cells Enhance Lung Epithelial Repair Following Acute Lung Injury**, Jason Robert Mock, University of North Carolina, *abstract 93*

10:45am **Rebalancing Tregs by Directly Targeting Epigenetic and Mitochondrial Processes During Sepsis**, Ayana Martin, Wake Forest, *abstract 94*

11:00 - 11:15am

Coffee Break

LOCATION: Grand Ballroom Foyer

11:15am - 12:45pm

Concurrent Sessions

CS 7 - NEUTROPHILS IN HEALTH AND DISEASE

LOCATION: Grand Ballroom 4&5

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
- 11:50am **Interferon-lambda (IFN- λ) induces signal transduction and gene expression in human hepatocytes, but not in lymphocytes or monocytes**, Raymond P. Donnelly, Journal of Leukocyte Biology, 2013 Mar; 93(3):377-85. *abstract 122*



SCIENTIFIC PROGRAM

12:20pm **Alcohol-induced IL-1 β in the brain is mediated by NLRP3/ASC inflammasome activation that amplifies neuroinflammation**, Banishree Saha, Journal of Leukocyte Biology, 2013 Jul;94(1):171-82

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



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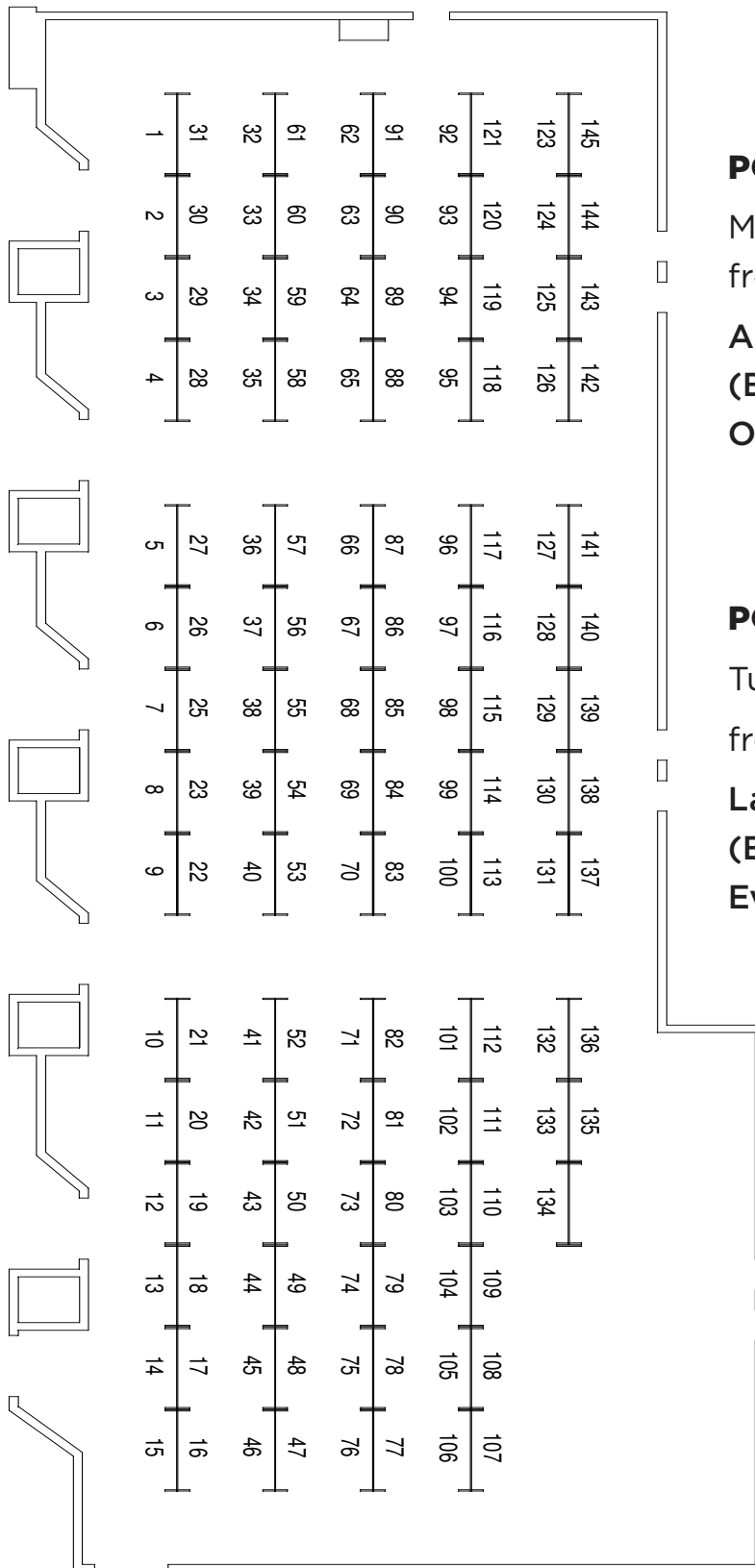
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POSTER SESSION FLOORPLAN



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-Naive HIV-Infected Russians With a Recent History of Heavy Drinking?

Kaku So-Armah, Debbie Cheng, Gregory Patts, Natalia Gnatienko, Evgeny Krupitsky, Dmitry Lioznov, 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-1 α 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

POSTER SESSIONS

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

Autophagy, Cellular Stress and Innate Immunity

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, Liwu Li. Biological Sciences, Virginia Tech, Blacksburg, VA

Abstract: 19

Poster Session I

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, Corshé 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

Lipid Mediator Regulation of Disease

Abstract: 25

Poster Session I

Ceramide Plays a Critical Role in Allergic Airway Disease

Jamie Lynn Sturgill, Clement Oyeneran, Nitai Hait, Dorit Avni, Michael Maceyka, Jason Newton, Jeremy Allegood, Alison Montpetit, Daniel Conrad, Sheldon Milstien, Sarah Spiegel. Virginia Commonwealth University, Richmond, VA

Abstract: 26

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



POSTER SESSIONS

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, Sihyug 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. McPeck, 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 (aE 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

Shuvasree 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 (PDP1) 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

POSTER SESSIONS

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

Nilukshi (Nilu) P. Goonetilleke, G. Clutton, JD Kuruc, C. Gay, D. Chen, K. Yang, A. Kashuba, DM Margolis, N. Archin, N. Goonetilleke. Microbiology & Immunology, University of North Carolina at Chapel Hill, Chapel Hill, NC

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

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, Changlong Nan. Department of Biomedical Science, Florida Atlantic University, Boca Raton, FL; Carilion School of Medicine and Research Institute, 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

Microbiome and Mucosal Immunity

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



POSTER SESSIONS

Inflammasomes and Inflammatory Disease

Abstract: 48

Poster Session II

Presidential Student Award Finalist

Inflammation Associated CHI3L1 Alters the Pulmonary Microenvironment Supporting Breast Cancer Metastasis

Stephania Libreros, Nathalia Gazaniga, Camilla Castro, Ramon Garcia-Areas, Vijaya Iravavarapu-Charyulu. Basic Science, Charles E. Schmidt College of Medicine, Florida Atlantic University, Boca Raton, FL

Abstract: 49

Poster Session I

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

Poster Session II

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

Poster Session I

Beyond the Inflammasome: Regulatory NLRs in Inflammation and Tumorigenesis

Irving Coy Allen. Department of Biomedical Sciences and Pathobiology, Virginia Tech, Blacksburg, VA

Abstract: 52

Poster Session II

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

Poster Session I

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

Poster Session II

Absence of IL-6 Impairs Thrombus Resolution Through Reduced Mmps and uPA Expression in Murine Deep Vein Thrombosis Model

Mizuho Nosaka, Yuko 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

Poster Session I

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

Poster Session II

The Role of Guanylate Binding Proteins as Regulators of Inflammasome Activation

Jörn Coers. Duke University Medical Center, Durham, NC

Abstract: 57

Poster Session I

Travel Award Winner

A Mechanism of indirect-Acute Lung Injury: Pulmonary Epithelial Cell HVEM Expression Promotes Inflammation/Organ Injury.

Tingting Cheng, Jianwen Bai, Chun-Shiang Chung, Yaping Chen, Shumin Xu, Alfred Ayala. Department of Emergency Internal Medicine, Shanghai East Hospital, Tongji University, Shanghai, China; Division of Surgical Research, Department of Surgery, Rhode Island Hospital, Brown University School of Medicine, Providence, RI

Abstract: 58

Poster Session II

Travel Award Winner

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: 59

Poster Session I

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

POSTER SESSIONS

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

Travel Award Winner

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

Travel Award Winner

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; Inositive 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 Inflammasome Components

Agnieszka 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

Fibrosis and Tissue Repair

Abstract: 66

Poster Session II

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

Abstract: 70

Poster Session II

Travel Award Winner

Substrate Stiffness Modulates Endothelial Cell Functions Important in Neutrophil Adhesion and Migration

Cornelia Hahn, Gang Cheng, David Scott, Keith Burridge, Claire Doerschuk. University of North Carolina, Chapel Hill, NC

Abstract: 71

Poster Session I

ESAT-6 Exacerbates Inflammation and Fibrosis in a Multi-wall Carbon Nanotube MWCNT Model of Pulmonary Granulomatous Disease

Anagha Malur, Barbara Barna, Matthew McPeck, 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



POSTER SESSIONS

DC and Macrophages in Tumorigenesis and Inflammation

Abstract: 73

Poster Session I

Presidential Jr Fac/PostDoc Award Finalist

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

Abstract: 74

Poster Session II

Presidential Jr Fac/PostDoc Award Finalist

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

Abstract: 75

Poster Session I

The IL-25/IL-25 Receptor Axis in B Cell Lymphomas of Germinal Center Origin

Vito Pistoia, 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- α in Human Plasmacytoid Dendritic Cells by Functional Mimicry of IL-10

Patricia Fitzgerald-Bocarsly, Piotr Pierog, Yanlin Zhao, Sukhwinder Singh, Jihong Dai, George Yap. Pathology and Laboratory Medicine, Rutgers New Jersey Medical School, Newark, NJ

Abstract: 78

Poster Session II

Travel Award Winner

Ablation of Host-Derived Semaphorin7A Decreases Tumor Progression in a Murine Model of Metastatic Breast Cancer

Ramon A. Garcia-Areas, Stephania Libreros, Michael Simoes, Nathalia Gazaniga, Vijaya Iragavarapu. Florida Atlantic University, Boca Raton, FL

Abstract: 79

Poster Session I

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 Gamero, Stefanie Vogel. Food and Drug Administration, Silver Spring, MD; Temple University School of Medicine, Philadelphia, PA; University of Maryland School of Medicine, Baltimore, MD

Abstract: 80

Poster Session II

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

Abstract: 82

Poster Session II

Travel Award Winner

Investigation of the Role of Complement Component C1q in Engulfment of Cancer Cells

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

Abstract: 83

Poster Session I

Anti-inflammatory modulation of macrophage phenotype for therapeutic application in implantation

Vladimir Riabov, Alexandru Gudima, Alexei Gratchev, Harald Klüter, Julia Kzhyshkowska. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Mannheim, Germany

Abstract: 84

Poster Session II

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 Kzhyshkowska. Medical Fakultät Mannheim, Heidelberg University, Mannheim, Germany; University Medical Centre Groningen, University of Groningen, Groningen, Netherlands; National University of Mexico, Mexico City, Mexico

Abstract: 85

Poster Session I

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

POSTER SESSIONS

Abstract: 86**Poster Session II**

Pulmonary Mycobacterial Infection Increases Systemic Expression of Notch Ligand Delta-Like 4 on Myeloid Cells in Both Humans and Mice

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

Abstract: 87**Poster Session I**

The Impact of Maternal Obesity During Pregnancy on Neonatal Immunity

Ilhem Messaoudi, Randall Wilson, Suhas Sureshchandra, Ashley Cacho, Xiping Cui. University of California, Riverside School of Medicine, Riverside, CA

Abstract: 88**Poster Session II**

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

Abstract: 89**Poster Session I**

Hematopoietic Progenitor Cells Are Secretory Cells That Influence Innate Immune Cell Phenotypes in Response to Staphylococcus Aureus and TLR2 Ligands

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

Abstract: 90**Poster Session II****Travel Award Winner**

Temporally Defined miRNA Expression Patterns are Specific for Macrophage Polarization and Reveal Regulation of Soluble Vascular Endothelial Growth Factor Receptor 1 by miR-125a-5p

David W. Melton, XiuFen Lei, Linda McManus, Jonathan Gelfond, Paula Shireman. University of Texas Health Science Center at San Antonio, TX

Treg/Th17 Balance in Inflammatory Disease

Abstract: 91**Poster Session I**

Increased Th17 Response to Gamma herpesvirus 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

Abstract: 92**Poster Session II****Travel Award Winner**

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

Abstract: 93**Poster Session I**

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

Abstract: 94**Poster Session II**

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

Abstract: 95**Poster Session I**

Gimap5 Is Essential for GSK3 β Inhibition During T Cell Activation Controlling the Transcriptional Program Required for Proliferation and Th17/Treg Differentiation

Kasper Hoebe, Andrew Patterson, Mehari Endale, Kristin Lampe, Jim Woodgett. Cincinnati Children's Hospital Medical Center, Cincinnati, OH; Lunenfeld-Tanenbaum Res. Institute at Mount Sinai Hospital, Toronto, Canada

Abstract: 96**Poster Session II****Travel Award Winner**

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 Zumbur, Prakash Nagarkatti, Mitzi Nagarkatti. Wm. Jennings Bryan Dorn VAMC / Univ. of South Carolina, Columbia, SC



POSTER SESSIONS

Abstract: 97**Poster Session I**

Notch Signaling Regulates T-cell Cytokine Expression in Response to MHV-68 Infection Following Bone Marrow Transplantation

Stephen J. Gurczynski, Ivan Maillard, Bethany Moore. University of Michigan, Ann Arbor, MI

Neutrophils in Health and Disease

Abstract: 98**Poster Session II****Presidential Jr Fac/PostDoc Award Finalist**

The Role of CCL2 in the Breast Cancer Tumor Microenvironment and Metastasis

Nicole Lavender, Jiqing Sai, Jinming Yang, Ann Richmond. Department of Cancer Biology, Vanderbilt University Medical Center, Nashville, TN

Abstract: 99**Poster Session I****Presidential Student Award Finalist**

Protein Kinase C delta (PKC δ) is Required for Human Neutrophil Migration during Acute Inflammation

Fariborz Soroush, Balabhaskar Prabhakarpandian, Laurie Kilpatrick, Mohammad Kiani. Temple University, Philadelphia, PA; CFD Research Corporation, Huntsville, AL

Abstract: 100**Poster Session II****Travel Award Winner**

Phenotypic and Functional Characteristics of an HLA-DR+ Subset of Neutrophils in Brazilians with Cutaneous Leishmaniasis

Richard Davis, Smriti Sharma, Jacilara Conceição, Pedro Carneiro, Edgar Carvalho, Mary Wilson. University of Iowa, Iowa City, IA; Banaras Hindu University, Varanasi, India; Universidade Federal de Bahia, Salvador, Brazil

Abstract: 101**Poster Session I**

How Neutrophils Avoid Traffic Jams at Sites of Inflammation

Daniel Irimia. Department of Surgery, Massachusetts General Hospital, Boston, MA

Abstract: 102**Poster Session II**

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, New York, NY

Abstract: 103**Poster Session I**

Ectosomes from Human Neutrophils Laden With Staphylococcus Aureus Induce a Pro-Inflammatory Response in Macrophages

Maya Amjadi, Mallary Greenlee-Wacker, William Nauseef. Inflammation Program, Carver College of Medicine University of Iowa, Coralville, IA

Abstract: 104**Poster Session II**

Sirtuin 2 Inhibition and Sepsis-induced Immunosuppression in ob/ob Mice.

Vidula T. Vachharajani, Xianfeng Wang, Barbara Yoza, Charles McCall. Wake Forest University School of Medicine, Winston-Salem, NC

Abstract: 105**Poster Session I**

Role of the Store-operated Calcium Entry protein, STIM1, in neutrophil chemotaxis and their infiltration into Psoriasis-inflamed skin

Natacha Steinckwich-Besancon, Page Myers, Kyathanahalli Janardhan, Norris Flagler, Debra King, James Putney. NIEHS, NIH, Research Triangle Park, NC

Abstract: 106**Poster Session II****Travel Award Winner**

Mechanisms of Neutrophil Apoptosis Inhibition by Francisella tularensis

Jenna McCracken, Justin Schwartz, Lee-Ann Allen, University of Iowa, Coralville and Iowa City, IA

Abstract: 107**Poster Session I****Travel Award Winner**

Gelatinase Granules, Not Generation of Reactive Oxygen Species, Participates in Human Neutrophil Killing of Environmental Mycobacteria

Irina Miralda, James Graham, Silvia Uriarte. Microbiology & Immunology, University of Louisville, Louisville, KY

Abstract: 108**Poster Session II****Travel Award Winner**

Role of Leukocyte ADAM17 in Sepsis Pathogenesis

Hemant Kumar Mishra, Bruce Walcheck. Vet. & Biomedical Sciences, University of Minnesota, St. Paul, MN

Abstract: 109**Poster Session I**

Sonic Hedgehog Signaling in the Regulation of Hematopoietic Stem/Progenitor Cell Activation During the Granulopoietic Response to Escherichia Coli Bacteremia

Ping Zhang, Xin Shi. Department of Integrative Medical Sciences, College of Medicine, Northeast Ohio Medical University, Rootstown, OH

POSTER SESSIONS

Abstract: 110

Poster Session II

Travel Award Winner

A Newly Appreciated Oral Pathogen, Filifactor Alocis, Fails to Induce the Respiratory Burst of Human Neutrophils

Jacob Stafford Edmisson, Cortney Armstrong, Silvia Uriarte, Shifu Tian, Richard Lamont. University of Louisville, Louisville, KY

Abstract: 111

Poster Session I

Nrf2 Modulates Host Defense During *S. Pneumoniae* Pneumonia in Mice

Jessica Renee Martin, John Gomez, Hong Dang, Claire Doerschuk, University of North Carolina School of Medicine, Chapel Hill, NC

Abstract: 112

Poster Session II

Biological Significance of Binding and Activation of the Receptor for Advanced Glycation End-products by the Neutrophil-derived Protein CAP37 in Proliferative Retinopathies

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

Abstract: 113

Poster Session I

Investigation of mPGES-1 as a Novel Anti-Inflammatory Target in Equine Leukocytes

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

Abstract: 114

Poster Session II

Travel Award Winner

The Oral Pathogen Filifactor Alocis, Enhances Chemotactic Functions of Human Neutrophils

Cortney Armstrong, R. Lamont, S. Uriarte, University of Louisville, Louisville, KY

Abstract: 115

Poster Session I

NETs (Neutrophil Extracellular Traps) Induce IL-1 β Production by Macrophages in the Presence of Lipopolysaccharide

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

Abstract: 116

Poster Session II

Thrombospondin-1 Is a Critical Mediator of Immune Complex Deposition Induced Acute Lung Injury

Madhavi J. Rane, Akanksha Gupta, Michelle Barati, Shunying Jin. Medicine, University of Louisville, Louisville, KY

Abstract: 117

Poster Session I

Myristoylated Alanine Rich C Kinase Substrate (MARCKS) is Involved in "Outside-In" β 2-Integrin Function in Neutrophils

Mary Katherine Sheats, Rebecca Till, Samuel Jones. Department of Clinical Science, North Carolina State University, Raleigh, NC

Abstract: 118

Poster Session II

Neutrophil Priming Occurs in Infants Undergoing Cardiopulmonary Bypass and Correlates with Post-Operative Acute Kidney Injury

Jessica G. Moreland, Brienna Hilkin, Jessica Hook, Patrick Brophy, Tina Davenport, Tarah Colaizy, Jody Huber. UT Southwestern Medical Center, Dallas, TX; University of Iowa, Iowa City, IA

Abstract: 119

Poster Session I

The Effect of Methylprednisolone on Neutrophil Recruitment and Interferon-gamma Production in the Lungs after *S. pneumoniae* Pneumonia

Olivia Kathryn Giddings, Jessica Martin, John Gomez, Claire Doerschuk. Marsico Lung Institute, University of North Carolina at Chapel Hill, Chapel Hill, NC

Abstract: 120

Poster Session II

Travel Award Winner

Modulation of Neutrophil Reactive Oxygen Species Production by *Staphylococcus aureus*

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

Abstract: 121

Poster Session I

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

Abstract: 123

Poster Session I

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 Neuroscience, Oklahoma City, OK; University of Oklahoma Health Sciences Center, Oklahoma City, OK; University of Utah, Salt Lake City, UT



POSTER SESSIONS

Abstract: 124**Poster Session II****Travel Award Winner**

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, CA

Abstract: 125**Poster Session I**

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 Sleasman, Maureen Goodenow. University of Florida College of Medicine, Gainesville, FL; University of South Florida, Tampa, FL; Duke University Medical Center, Durham, NC

Abstract: 126**Poster Session II**

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

Metabolic Control of Immunity

Abstract: 127**Poster Session I****Travel Award Winner**

Metabolic Regulation of Tumor Infiltrating Lymphocytes

Lelisa F. Gemta, Timothy Bullock. Department of Pathology, University of Virginia, Charlottesville, VA

Abstract: 128**Poster Session II**

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

Abstract: 129**Poster Session I**

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

Abstract: 130**Poster Session II**

High Glucose Regulates Cytokines Responses in Human Macrophages

Kondaiah Moganti, Feng Li, Sarah Riemann, Harald Klüter, Martin Harmsen, Alexei Gratchev, Julia Kzhyshkowska. 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

Abstract: 131**Poster Session I**

Regulation of CD163 Expression in Human Macrophages in Diabetic Conditions and in Response to Implant Material

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

Late Breaking

Abstract: 132**Poster Session II**

Dynamic Role of Toll-interacting Protein in the Inflammatory Response

Elizabeth Ashley Kowalski, Liwu Li. Virginia Tech, Blacksburg, VA

Abstract: 133**Poster Session II**

High Levels of PGE2 in Bone Marrow Transplant Mice Impairs Autophagy in Alveolar Macrophages

Giovanny Joel Martinez-Colon, Bethany Moore. University of Michigan, Ann Arbor, MI

Abstract: 134**Poster Session II**

Complement Protein C1q Promotes Autophagy-Independent Survival of Macrophages During Clearance of Atherogenic Lipoproteins

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

Abstract: 135**Poster Session II**

Disruption of the Polyisoprenyl Diphosphate Phosphatase 1 Gene Leads to Enhanced Bacterial Clearance in a Murine Model of Pneumonia.

Troy Carlo, David Douda, Raja-Elie Abdounour, Bruce Levy. Brigham and Women's Hospital, Boston, MA

POSTER SESSIONS

Abstract: 136**Poster Session II**

Effects of Extracorporeal Shock Wave Therapy on Gene Expression of Inflammatory Cytokines in Equine White Blood Cells

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

Abstract: 137**Poster Session II**

Role of Inflammasome Dependent IL-1 β in Hypersensitivity Pneumonitis

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

Abstract: 138**Poster Session II**

AIM2 Suppresses Colon Tumorigenesis by Interfering With DNA-PK-Dependent Akt Signaling

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

Abstract: 139**Poster Session II**

Understanding Host Responses Triggering Pathogen Virulence During Secondary Staphylococcus aureus Pneumonia

Timothy Ryan Borgogna, Bennett Hisey, Eli Sward, Kyler Pallister, Jovanka Voyich. Montana State University, Bozeman, MT

Abstract: 140**Poster Session II**

Macrophage-Specific Deletion of Peroxisome Proliferator-Activated Receptor-Gamma Exacerbates Inflammatory Immune Responses and Impairs Respiratory Function in a Mouse Model of Pulmonary Pseudomonas Aeruginosa Infection

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

Abstract: 141**Poster Session II**

Adhesive and Topological Cues Modulate Macrophage Phenotype Polarization

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

Abstract: 142**Poster Session II**

Tumor Associated Macrophages in Gaps of Ductal Tumor Structures Negatively Correlate With the Lymphatic Metastasis in Human Breast Cancer

Vladimir Riabov, Michael Buldakov, Marina Zavyalova, Nadezhda Krakhmal, Nadezhda Telegina, Sergei Vtorushin, Irina Mitrofanova, Shuiping Yin, Bin Song, Nadezhda Cherdyntseva, Julia Kzhyshkowska. Medical Faculty Mannheim, Heidelberg University, Institute of Transfusion Medicine and Immunology, Mannheim, Germany; Tomsk State University, Laboratory for Translational Cellular and Molecular Biomed, Tomsk, Russia; Siberian State Medical University, Tomsk, Russia

Abstract: 143**Poster Session II**

The Role of Glycoprotein a Repetitions Predominant (GARP) in Murine Regulatory T Cell Function

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

Abstract: 144**Poster Session II**

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

Abstract: 145**Poster Session II**

Mitochondrial Fueling and Bioenergy Paralysis Occur During the Monocyte Sepsis Response

Charles McCall, David Long, Manish Bharadwaj, Anthony Molina. Wake Forest University Medical Center, Winston-Salem, NC



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PROGRAM CHAIRS

Marco A. Cassatella (University of Verona)

Patrick P. McDonald (Université de Sherbrooke)

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

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Peter Murray

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PROGRAM - AT - A - GLANCE

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 - 9:30 pm

Street Smarts of Science

LOCATION: Dogwood & Boxwood
(Pre-registration required)

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 - 9:00am

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

Concurrent Sessions

CS 1 - Lipid Mediator Regulation of Disease

LOCATION: Grand Ballroom 4&5

CS 2 - Immunologic Mechanisms of Vaccination

LOCATION: Grand Ballroom 3

12:30 - 2:00pm

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

TUESDAY, SEPTEMBER 29

7:00 - 8:30am

Grant Writing Session Breakfast

LOCATION: Dogwood & Boxwood - breakfast provided.
(Pre-registration required)

8:00am - 4:30pm

Registration Desk Open

LOCATION: Grand Ballroom Foyer

8:00am - 4:30pm

Exhibits

LOCATION: Grand Ballroom Foyer

8:00 - 9:30am

Breakfast

LOCATION: Breakfast provided in Lofton's Corner

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

Follow the meeting on Twitter!

#Leukocyte2015