

The Society For Leukocyte Biology's 49th Annual Meeting and "Neutrophil 2016"

September 15-17, 2016 • University of Verona Congress Center • Verona, Italy

PROGRAM BOOK



The Society For Leukocyte Biology's 49th Annual Meeting and "Neutrophil 2016"

Thank You to Our 2016 Sponsors

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SPECIAL THANKS

Funding for this conference was made possible [in part] by 1 R13 AI124612-01 from the National Institute of Allergy and Infectious Diseases. The views expressed in written conference materials or publications and by speakers and moderators do not necessarily reflect the official policies of the Department of Health and Human Services; nor does mention of trade names, commercial practices, or organizations imply endorsement by the U.S. Government.

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WELCOME LETTER

Dear Colleagues,

It is our great pleasure to welcome you to this Joint Meeting of the Society for Leukocyte Biology (SLB) and Neutrophil 2016.

In addition to an outstanding scientific program, the meeting is held in beautiful Verona, a city teeming with history from the Roman empire to the Middle Ages and Italian Renaissance (it is after all the home of Romeo and Juliet), to the Napoleonic and Austrian empires. The city and its region has numerous architectural gems of its rich past, and is located near the majestic Garda Lake and the world-renowned Valpolicella wine-producing area, dating back to Roman times.

The theme for this year's meeting is "Inflammation, Immunity and Cancer: Neutrophils and Other Leukocytes." Our Keynote Speaker, and recipient of the Bonazinga award, is William Nauseef (University of Iowa). His talk, entitled "Neutrophils: To Know Them Is to Love Them" will set the stage for this joint meeting. The program also features 5 plenary sessions covering a variety of state-of-the-art topics, as well as 10 concurrent sessions which were designed to reflect the joint nature of the meeting, and which will showcase invited speakers and short presentations chosen from submitted abstracts. In addition, the meeting opens with two satellite symposia on Aging and Immunology, and Enabling Technologies for Leukocyte Research, respectively.

Because we strongly believe in providing opportunities for participants to meet colleagues and speakers, there will be an opening reception on the first night of the meeting just before the Bonazinga award presentation on Thursday evening. The poster sessions will also provide a great occasion to discuss and socialize with colleagues.

Finally, we wish to thank all our sponsors including the NIH, BioLegend, Cayman Chemical, PeproTech, BD Life Sciences, Thermo Fisher Scientific, Stemcell, Hycult, Miltenyi Biotec, Micro Medicine Inc, Bio-Techne and the Company of Biologists - whose generous support helps make this program possible.

The 2016 Scientific Program Chairs

Marco A. Cassatella and Patrick P. McDonald



Be a part of a Special JLB Dedicated Meeting Issue

The Journal of Leukocyte Biology will publish a cluster of articles related to the SLB/Neutro 2016 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:

- Invitations will be sent by October 1, 2016 - respond by October 15, 2016
- First submission are due by February 1, 2017
- Review of articles to be completed by April 1, 2017
- Revised papers will be due by May 15, 2017
- Revised articles to be reviewed by July 1, 2017
- Accepted by July 1, 2017

Publish in print OCTOBER 2017

Current Opinion in Immunology



Editors-in-Chief
Frederick Alt and **Philippa Marrack**

Current Opinion in Immunology is a systematic review journal that aims to provide specialists with a unique and educational platform to keep up-to-date with the expanding volume of information published in the field of immunology. It consists of 6 issues per year, with an annual section dedicated to each of the following subject areas:

- | | |
|---|--------------------------------|
| ● Innate immunity | ● Vaccines |
| ● Tumour immunology | ● Allergy and hypersensitivity |
| ● Lymphocyte development and activation | ● Host pathogens |
| ● Antigen processing | ● Autoimmunity |



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Get *Ukova* for SLB/Neutro 2016



SLB/Neutro 2016 Official Event App

- Explore the **profession profiles** of event speakers and attendees
- Send **in-app messages** and **exchange contact info**
- **Network and find attendees** with common affiliations, educations, shared networks, and social profiles
- Receive **update notifications** from organizers
- Access the **event agenda**, GPS guidance, maps, and parking directions at your fingertips



The event invitation code is:
snlebu2016

2016 SLB AWARDS

MARIE T. BONAZINGA AWARD

William M. Nauseef, M.D. University of Iowa

G. JEANETTE THORBECKE AWARD

Roxane Tussiwand, Ph.D., University of Basel

DOLPH ADAMS AWARD

Minsoo Kim, Ph.D., University of Rochester

WOMEN AND DIVERSITY PAPER OF THE YEAR

Elzbieta Kolaczowska, Ph.D., Jagiellonian University

PRESIDENTIAL AWARD NOMINEES

Finalists: Student Category

Laura Healy, Oregon Health & Science University

Lauren Kinkead, Ph.D., University of Iowa Carver
College of Medicine

Sabrina Sofia Burgener, University of Bern

Finalists: Junior Faculty/Post-Doc Category

Juhi Bagaitkar, Ph.D., Washington University in St. Louis

Meraj Khan, Ph.D., The Hospital for Sick Children

Niels Heemskerk, VU University Medical Center

LIFETIME HONORARY MEMBERS

Jill Suttles, Ph.D., University of Louisville School of Medicine

Charles E. McCall, M.D., Wake Forest University Medical
School

OUTGOING COUNCIL AWARDS

Mary Dinauer, M.D. Ph.D., Treasurer, Washington
University School of Medicine

Christine Biron, Ph.D., Councilor, Brown University

Nick Lukacs, M.D. Councilor, University of Michigan

SIICA TRAVEL AWARD WINNERS

Maria Rosaria Galdiero, University of Naples Federico II

Andrea Ponzetta, Humanitas Clinical and Research
Center

2016 SLB TRAVEL AWARD WINNERS

Bethany Biron Girard, Brown University

Abigail Cannon, Loyola University Chicago

Carmelo Carmona-Rivera, National Institute of Arthritis
and Musculoskeletal and Skin Diseases

Pierre Cunin, Brigham and Women's Hospital

Brenda Curtis, University of Colorado Denver

Osric Forrest, Emory University

Adam Hammer, Loyola University Chicago Health
Sciences Division

Marieke Heineke, VUmc

Brian Hsu, Goodman Cancer Research Center

Christina Lee, Virginia Polytechnic Institute and
State University

Katharine Lodge, University of Cambridge

Monika Majchrzak-Górecka, Jagiellonian University

Alex Marki, La Jolla Institute for Allergy and Immunology

Katherine Martin, INSERM

Rebecca McCullough, Cleveland Clinic

Niya Morris, Loyola University

Philip Owens, Vanderbilt University

Joanna Pocock, University of Cambridge

Cameron Postnikoff, University of Alabama at
Birmingham

Atiqur Rahman, University of Sheffield

Shrestha Sanjeeb, Hallym University

Carlos Sanz Garcia, Cleveland Clinic Foundation

Kirti Sawant, University of Texas Medical Branch

Tatiane Soares de Lima, University of California Irvine

ZhiMin Song, University Paris-sud

Julia Svedova, University of Connecticut Health

Jared Taylor, University of Florida

Nicole Toepfner, University of Cambridge

Irina Ushach, University of California Irvine

Chairut Vareechon, Case Western Reserve University

Alessandro Venosa, Rutgers University

Zachary Wilson, Brown University

Hadley Witt, Brown University / Rhode Island Hospital

Dingyi Yang, The University of Sheffield

Dae-goon Yoo, Washington University in St. Louis

Yao Zhang, Virginia Tech

Jiali Zhu, Rhode Island Hospital

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Cody Mooneyhan

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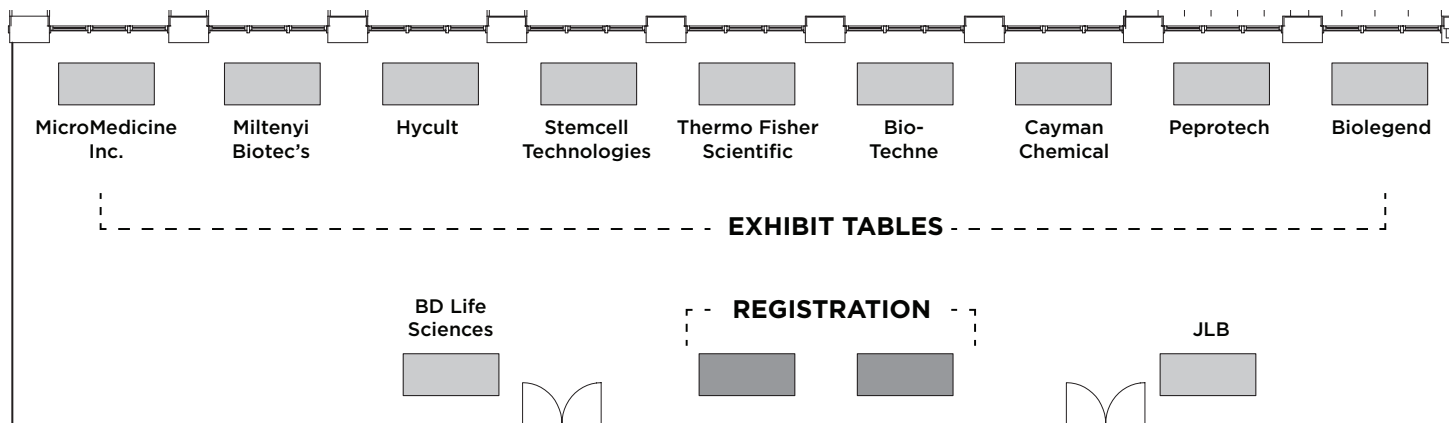
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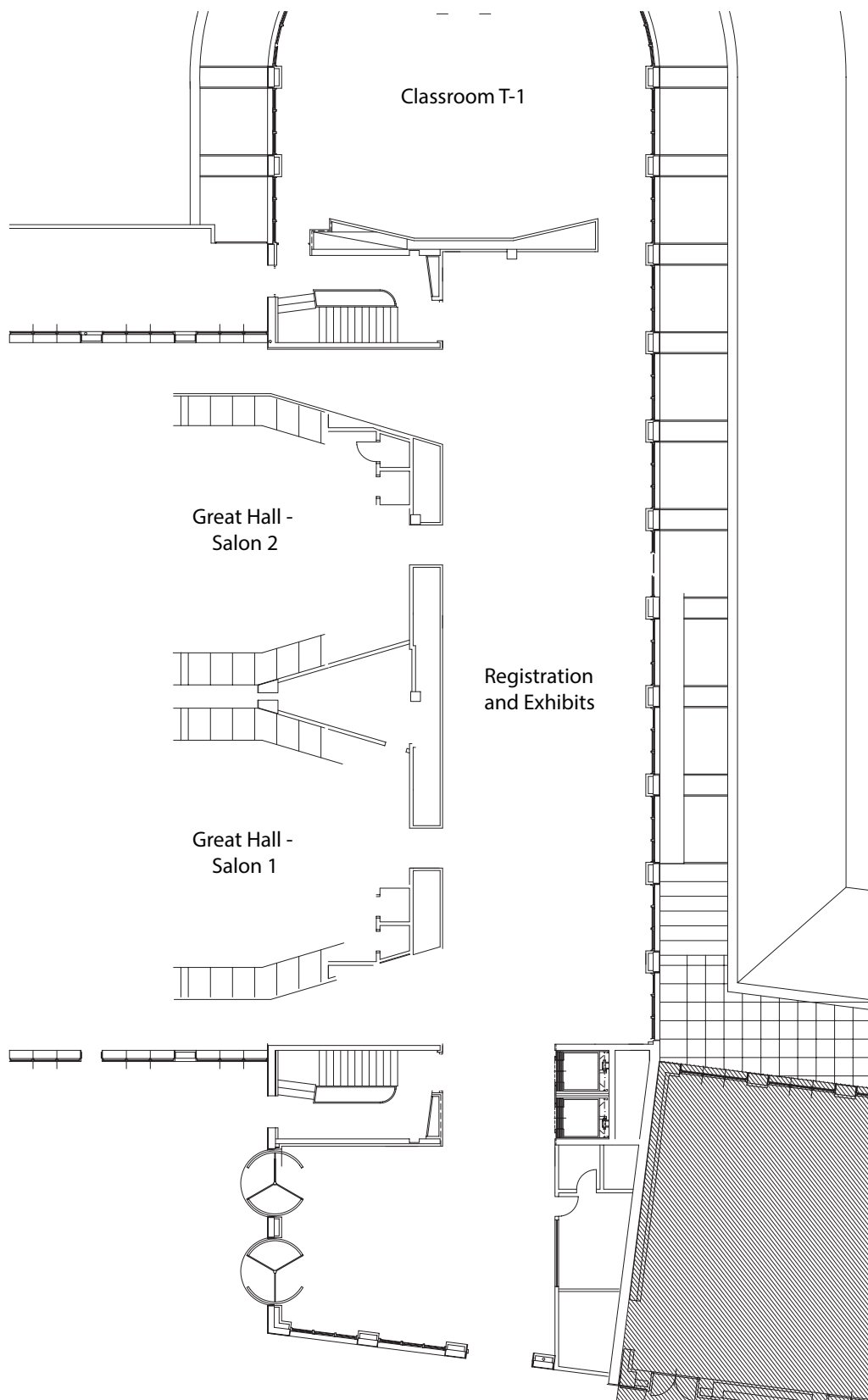
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On-site Rep: Paola Paglia



MEETING SPACE FLOORPLAN



GENERAL INFORMATION

MEETING LOCATION

The University of Verona Congress Center will be the site of the SLB 2016 Meeting:

Polo Zanotto - University of Verona -
Viale dell'Università, 4 Verona - Italy

REGISTRATION

Registration fees include the opening reception on Thursday night, coffee breaks, scientific sessions, and one program book. Registration fees exclude hotel costs. On-site registration will be accepted with payment via checks and credit cards.

Registration Hours

The meeting registration desk is located on the meeting room level in just inside the main foyer area of the Polo Zanotto. Name badges and conference materials can be picked up at this location. The SLB registration desk will be staffed during the following hours.

Registration Desk Hours:

- Thursday, September 15th: 8:00 AM – 6:00 PM
- Friday, September 16th: 8:00 AM – 5:30 PM
- Saturday, September 17th: 8:30 AM – 4:00 PM

CATERING

Included in registration fees are the following catered events: Thursday Night Opening Reception (Hot and chilled d'oeuvres, beverages.) and all AM and PM coffee breaks

LANGUAGE

The official language of the SLB and Neutro 2016 meeting is English.

LUNCH BREAKS

The University cafeteria offers a variety of options at very affordable prices. It is an ideal spot for lunch before or after poster viewing. A number of local eateries are also within a 5 minute walk of the Congress Center.

ABSTRACT BOOKS

Printed Abstract books are available online through Lulu Press: www.lulu.com. Abstract books are \$20 each. Search "SLB/Neutro 2016" in the Lulu Press store on-line. Please note that all abstracts are also available for viewing as PDFs on the SLB website.

INTERNET ACCESS

Internet access is complimentary in the city of Verona. The University of Verona also offers complimentary WiFi.

Volunteers at the meeting registration desk are available to assist with internet access in the Congress Center.

SPEAKERS

Presenters are asked to load their talks at least 2 hours prior to their sessions by visiting the speaker ready room off of the main lobby area 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:

- Thursday, September 15th: 8:00 AM – 6:00 PM
- Friday, September 16th: 8:00 AM – 5:00 PM
- Saturday, September 17th: 8:00 AM – 4:00 PM

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 numbers will formally present on Friday, September 16th from 12:00 PM – 2:00 PM, while even numbers boards will formally present on Saturday, September 17th from 11:45 AM – 1:45 PM. Set-up and breakdown for ALL poster boards is as follows:

Set-up for all posters: Friday, September 16th at 8:00 AM

Remove posters by: Saturday, September 17th at 6:00 PM

Poster Session I: Friday, September 16th,
12:00 PM – 2:00 PM

Poster Session II: Saturday, September 17th,
11:45 AM -1:45 PM

The organizers are not responsible for any materials posted. Pushpins are provided.

EXHIBITION

Please take time to visit the exhibit displays in the Lobby during the breaks and poster sessions. See page 5, 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:

- Thursday, September 15th: 12:00 PM – 6:00 PM
- Friday, September 16th: 8:00 AM – 5:30 PM
- Saturday, September 17th: 8:30 AM – 4:00 PM



GENERAL INFORMATION

ACCOMPANYING PERSONS

Guests are welcome to enjoy Verona during conference hours. There are many outdoor activities, shopping, restaurants and local attractions to explore!

Visit www.turismoverona.eu for information.

CHILDCARE

Attendees who require childcare services are encouraged to contact their Hotel Concierge Services for recommendations. Most hotels in the meeting block have resources for identifying qualified childcare providers with experience and references.

MEMBERSHIP

All members are encouraged and invited to attend the SLB Member Business Meetings on Friday, September 16th at 10:15 am in the Great Hall. Remaining awards will be announced at this time. The advice and guidance of the memberships on current society issues are welcome in these "open forum" meetings. If you are not currently a member, applications are available at the 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 meetings.

SPECIAL NEEDS

Registrants with special needs are invited to contact the SLB office in advance or stop by the Registration Desk for assistance. We will gladly work with you to provide the accommodations needed for a full conference experience.

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

WEDNESDAY, SEPTEMBER 14

4:00 PM – 7:00 PM SLB COUNCIL MEETING *By Invitation*

THURSDAY, SEPTEMBER 15

8:00 AM – 6:00 PM REGISTRATION *Great Hall Lobby*

8:00 AM – 11:30 AM ENABLING TECHNOLOGIES FOR LEUKOCYTE RESEARCH *Great Hall – Salon II*
Chair: Daniel Irimia

8:00 am Mechanobiology of dendritic cell migration in confined environments. **Pablo Vargas**, Institut Curie *abstract LB31*

8:30 am Micro scale in vitro models to study neutrophil behavior: past, present and future. **David Beebe**, University of Wisconsin *abstract 1*

9:00 am On-Chip Phenotypic analysis of Leukocyte Inflammatory Recruitment in Acute and Chronic Diseases. **Scott Simon**, Univ. California Davis *abstract 2*

9:30 am Microfluidic chambers to screen neutrophil killing of *Aspergillus fumigatus* in the presence of novel bifunctional small molecules. **Caroline Jones**, Virginia Tech *abstract 3*

10:00 am Rapid microfluidic immune cell migration analysis for biologically oriented and clinically oriented research. **Francis Lin**, University of Manitoba *abstract 4*

10:30 am Ultra High Throughput Purification and Concentration of Leukocytes and Progenitor Cells from Peripheral Blood and Bone Marrow. **Ravi Kapur**, MicroMedicine Inc. *abstract LB32*

11:00 am Application of machine learning algorithms to identify sepsis-specific neutrophil migration signatures. **Felix Ellett**, Massachusetts General Hospital *abstract 5*

11:15 am *Staphylococcus aureus* enterotoxin A induced pulmonary inflammation is accompanied by distinct changes in cell populations within the lung. **Julia Svedova**, UCONN Health *abstract 6 SLB Travel Awardee*

8:15 AM – 11:30 AM AGING AND IMMUNOLOGY SATELLITE *Classroom T-1*
Co-Chairs: Elizabeth J. Kovacs and Rebecca Fuldner

8:30 am Shaping of tissue-resident and monocyte-derived alveolar macrophages by the microenvironment of the aging lung. **Scott Budinger**, Northwestern University

9:15 am Inflamm-aging and the gut-liver-lung axis after injury. **Elizabeth J. Kovacs**, University of Colorado

10:00 am DNA methylation profile in whole blood, PBMC, monocytes, T and B cells: studies on centenarians and HIV+ subjects. **Claudio Franceschi**, University of Bologna, Italy

10:45 am The aging microbiota reprograms inflammatory monocytes. **Dawn M.E. Bowdish**, McMaster Univ., Canada

11:30 AM – 1:00 PM POSTER FLASH TALKS *Great Hall – Salon I*
Chairs: Robert Clark, Silvia Uriarte, and Bruce Levy

11:30 am NEUTROPHILS AND SYSTEMIC INFLAMMATION
Chair: Robert Clark; co-chair: Juhi Bagaitkar

The dual role of the endogenous homeostatic factor Del-1 in the modulation of acute self-limited inflammation. **Ioannis Kourtzelis**, University Dresden *abstract 165*

Butyrate Protects Intestinal Immune Response During Acute on Chronic Ethanol Exposure. **Gail Cresci**, Cleveland Clinic *abstract 71*

Mice expressing human Proteinase 3 show sustained neutrophil infiltration and a defect in the resolution of inflammation. **Katherine Martin**, INSERM *abstract 169, SLB Travel Awardee*

Optic atrophy 1 (OPA1) controls energy metabolism and contributes to antibacterial functions of neutrophils. **Amini Poory**, Pharmacology institute *abstract 122*



SCIENTIFIC PROGRAM

12:00 pm MOLECULAR REGULATION OF NEUTROPHIL FUNCTION

Chair: Silvia Uriarte; **Co-chair:** Ben Croker

Phosphoinositol-3-phosphate acts as a timer for ROS production in the phagosome by controlling p67phox accumulation. **ZhiMin Song**, University Paris-sud *abstract 30*, *SLB Travel Awardee*

Hypoxia upregulates PI3Kinase-dependent neutrophil degranulation and neutrophil-mediated tissue injury. **Katharine Lodge**, University of Cambridge *abstract 131*, *SLB Travel Awardee*

Targeting specific phosphoinositide 3-kinase isoforms reduces damaging neutrophil functions without impairing bacterial phagocytosis in Chronic Obstructive Pulmonary Disease. **Georgia Walton**, University of Birmingham *abstract 137*

Plasma membrane profiling of the neutrophil by amino-oxybiotinylation and Tandem Mass Tag mass spectrometry. **Joanna Pocock**, University of Cambridge *abstract 86*, *SLB Travel Awardee*

12:30 pm STOP OR GO – NETS AND NEUTROPHIL MIGRATION

Chair: Bruce Levy; **Co-chair:** Ronen Sumagin

Cytoskeleton re-organization during NET formation. **Darko Stojkov**, Institute of Pharmacology *abstract 120*

Do NETs Matter? Establishing a Role for Neutrophil Extracellular Traps in Patho-Biology of Indirect Acute Lung Injury. **Bethany Biron Gerard**, Brown University *abstract 128*, *SLB Travel Awardee*

Nuclear segmentation of neutrophils and migration of neutrophils through narrow pores; cause or consequence? **Erinke van Grinsven**, Univ. Medical Centre Utrecht *abstract 42*

TNFA promotes CCR7-dependent migration of neutrophils and their subsequent crawling into the lymphatic vessels in vivo. **Samantha Arokiasamy**, Queen Mary University of London *abstract 150*

12:00 PM – 6:00 PM EXHIBITS OPEN *Great Hall Lobby*

1:15 PM – 2:45 PM SLB JUNIOR AWARDS:

PRESIDENTIAL JUNIOR FACULTY/POST-DOC & STUDENT FINALISTS *Great Hall*

Chairs: Lee-Ann Allen, SLB President Elect and Robert Clark, SLB President

JUNIOR FACULTY/POSTDOC CATEGORY

- 1:15 pm NADPH oxidase activation regulates apoptotic cell clearance and antigenicity. **Juhi Bagaitkar**, WUSTL *abstract 88*
- 1:30 pm A Novel Role for JNK in Neutrophils: JNK Uniquely Regulates ROS Production and NADPH-Oxidase-Dependent NETosis. **Meraj Khan**, Hospital for Sick Children *abstract 107*
- 1:45 pm F-actin-rich contractile endothelial pores prevent vascular leakage during leukocyte diapedesis through local RhoA signalling. **Niels Heemskerk**, VUMC *abstract 21*

STUDENT CATEGORY

- 2:00 pm Activated protein C (APC) binds leukocytes and signals to inhibit neutrophil extracellular trap formation and apoptosis; possible additional mechanism for anti-inflammatory and cytoprotective effects of APC. **Laura Healy**, Oregon Health & Science University *abstract 89*
- 2:15 pm Elucidating the mechanism of neutrophil apoptosis inhibition by Francisella tularensis. **Lauren Kinkead**, University of Iowa *abstract 183*
- 2:30 pm Neutrophil and Monocyte survival in vivo and in vitro depends on an additive cytoprotective shield by Serpinb1a and Serpinb6a against granule proteases. **Sabrina Sofia Burgener**, University of Bern *abstract 160*

2:45 PM – 3:00 PM COFFEE BREAK *Great Hall Lobby*

3:00 PM – 4:00 PM SLB SENIOR AWARD PRESENTATIONS *Great Hall*

Chairs: Lee-Ann Allen, SLB President Elect, and Robert Clark, SLB President

- 3:00 pm *G. Jeanette Thorbecke Awardee:* Dendritic cells: holding the balance of immunity and tissue integrity. **Roxane Tussiwand**, University of Basel *abstract 58*
- 3:20 pm *Dolph O. Adams Awardee:* Neutrophils and Influenza-specific CD8 T Cells in the Flu-infected Airways. **Minsoo Kim**, University of Rochester *abstract 108*
- 3:40 pm *Women and Diversity Paper of the Year Awardee:* Neutrophil extracellular traps in sepsis: immunometabolic implications. **Elzbieta Kolaczowska**, Jagiellonian University *abstract 53*

SCIENTIFIC PROGRAM

4:00 PM – 4:15 PM BREAK *Great Hall Lobby*

4:15 PM – 5:45 PM CONCURRENT SESSIONS I-2

CS 1 - SOLUBLE MEDIATORS AND CHEMOKINES

Great Hall – Salon I

Chair: Alberto Mantovani; **co-chair:** Jennifer Brazil

- 4:15 pm Macrophages and Humoral Innate Immunity in Tumor-promoting Inflammation. **Alberto Mantovani**, Università degli Studi di Milano
- 4:45 pm Cathelicidins have direct antiviral activity against respiratory syncytial virus in vitro and protective function in vivo in mice and humans. **Donald Davidson**, University of Edinburgh *abstract 11*
- 5:00 pm YKL-39 is expressed in tumour-associated macrophages, stimulates monocyte migration and reversely correlates with hematogenous and lymphatic metastasis in human breast cancer. **Julia Kzhyshkowska**, University of Heidelberg *abstract 12*
- 5:15 pm Role of chemokine CXCL17 in macrophage homeostasis and infection. **Kirti Sawant**, University of Texas Medical Branch *abstract 13 SLB Travel Awardee*
- 5:30 pm Natural nitration of CXCL12 reduces its signaling capacity and chemotactic activity in vitro and abrogates intra-articular lymphocyte recruitment in vivo. **Rik Janssens**, Rega Institute for Medical Research *abstract 14*

CS 2 - NEUTROPHIL TRAFFICKING AND EFFECTOR FUNCTIONS

Great Hall – Salon II

Chair: Triantafyllos Chavakis; **co-chair:** Michael Schnoor

- 4:15 pm Endothelial TIM-1 triggers neutrophil adhesion under inflammatory conditions and contributes to the induction of autoimmunity. **Stefano Angiari**, University of Verona *abstract 22*
- 4:30 pm X-linked neutropenia caused by overactive mutations in the Wiskott-Aldrich syndrome protein renders neutrophils hyperactive. **Marton Keszei**, Karolinska Institutet *abstract 23*
- 4:45 pm Live cell time-lapse imaging allows quantification of NETosis and dissection of the pathways involved in cell death and chromatin decondensation. **Simon Chatfield**, Walter and Eliza Hall Institute of Medical Research *abstract 24*
- 5:00 pm Cracking the Neutrophil Transcription Paradox: Transcriptional Firing Drives NETosis. **Nades Palaniyar**, The Hospital for Sick Children *abstract 25*
- 5:15 pm Neutrophil Recruitment in Vascular Inflammation. **Triantafyllos Chavakis**, Technische Universität Dresden

5:45 PM – 7:00 PM OPENING RECEPTION *Chiostro Santa Maria della Vittoria*. Light fare and refreshment provided.

7:00 PM – 8:00 PM PLENARY SESSION I: WELCOME AND KEYNOTE BONAZINGA AWARD LECTURE *Great Hall*

Co-Chairs: Robert Clark, Marco A. Cassatella, and Patrick P. McDonald

Welcome from the Dean. **Nicola Sartor**, Università di Verona

Neutrophils: To Know Them Is to Love Them. **William Nauseef**, University of Iowa, 2016 *Bonazinga Awardee*, Sponsored by Accurate Chemical

8:00 PM – 9:30 PM CAREERS BEYOND THE BENCH *Classroom T-1*

Chairs: Juhi Bagaitkar

SLB MEMBERS IN TRANSITION AND TRAINING WORKSHOP

Featured speakers: Camille Zenobia, Ph.D, Research Scientist, Colgate Palmolive; Carrie Peters, Ph.D., Principal Scientist, StemCell Technologies; and Louis B Justement, Ph.D., Professor, UAB



SCIENTIFIC PROGRAM

FRIDAY, SEPTEMBER 16

8:00 AM – 5:30 PM REGISTRATION AND EXHIBITS *Great Hall Lobby*

8:30 AM – 10:00 AM PLENARY II: THE EXPANDING WORLD OF LEUKOCYTE SUBSETS *Great Hall*
Chairs: Angela Santoni and Niels Borregaard

8:30 am Mature and Immature Neutrophils Display Opposite Immunoregulatory Properties. **Patrizia Scapini**, University of Verona

8:50 am Functional Heterogeneity of Human Mononuclear Phagocytes in Health and Disease. **Muzlifah Haniffa**, Newcastle University

9:10 am Proangiogenic Neutrophils: Identity, Function and Trafficking. **Mia Philippon**, Uppsala University

9:30 am Innate Lymphoid Cells in Immunity. **Marco Colonna**, Washington University School Medicine

10:00 AM – 10:15 AM COFFEE BREAK *Great Hall Lobby*

10:15 AM – 10:30 AM SLB SOCIETY BUSINESS MEETING & PRESIDENTIAL AWARD ANNOUNCEMENTS *Great Hall*
Chairs: Lee-Ann Allen, SLB President Elect, and Robert Clark, SLB President

10:30 AM – 12:00 PM PLENARY III: METABOLISM AND SIGNALING IN IMMUNITY *Great Hall*
Chairs: Silvano Sozzani and Sylvain Bourgoin

10:30 am Metabolic reprogramming in innate immunity. **Luke O'Neil**, Trinity College Dublin

10:50 am Calcium Signaling in Neutrophil Activation. **Cliff Lowell**, University of California, San Francisco

11:10 am Metabolic control of immune tolerance and susceptibility to infections. **Giuseppe Matarese**, Università degli Studi di Salerno

11:30 am Neutrophil Control of Resolution and Tissue Repair. **Mauro Perretti**, Queen Mary University of London

12:00 PM – 2:00 PM POSTER SESSION I *Chiostro San Francesco*

Enjoy lunch on your own (purchase in cafeteria or nearby cafés) while viewing the ODD-numbered abstract posters.

2:00 PM – 3:30 PM CONCURRENT SESSIONS 3–4

CS 3 - CYTOKINES IN INFLAMMATION AND IMMUNITY
Great Hall – Salon I

Chair: Sergei Nedospasov; **Co-chair:** Mathieu-Benoit Voisin

2:00 pm Targeting Proinflammatory Cytokines in Myeloid Cell-restricted Manner. **Sergei Nedospasov**, Russian Academy of Sciences

2:30 pm T cells undergoing homeostatic expansion induce acute lymphoblastic leukemia in IL-15-deficient NOD.scid mice. **Subburaj Ilangumaran**, Univ. de Sherbrooke *abstract 59*

2:45 pm Interleukin-31 and Thymic Stromal Lymphopoietin Expression and Clinical Relevance in Classical Hodgkin Lymphoma Patients. **Vito Pistoia**, Istituto Giannina Gaslini *abstract 60*

3:00 Functional characterization of meteorin-like/IL-39, a novel cytokine produced by macrophages and barrier tissues. **Irina Ushach**, UC Irvine *abstract 61*
SLB Travel Awardee

3:15 pm The gut microbiome is essential for the development of IL-33-responsive ILC2s that mediate chronic inflammation in ileitis-prone mice. **Theresa Pizarro**, Case Western Reserve University School of Medicine *abstract 62*

CS 4 - EMERGING TOPICS AND METHODOLOGIES IN NEUTROPHIL BIOLOGY
Great Hall – Salon II

Chair: Sussan Nourshargh; **Co-chair:** Nicole Toepfner

2:00 pm Microfluidics-based side view flow chamber reveals tether-to-sling transition in rolling neutrophils. **Alex Marki**, La Jolla Institute for Allergy and Immunology *abstract 74 SLB Travel Awardee*

2:15 pm Morpho-rheological fingerprint of neutrophils in fMLP activated blood and RSV infections. **Nicole Toepfner**, TU Dresden *abstract 75 SLB Travel Awardee*

2:30 pm Long-term intensive endurance exercise leads to an innate immune response characterised by mobilisation of CD16+CD62L⁺ neutrophils. **Selma van Staveren**, UMC Utrecht *abstract 76*

2:45 pm Neutrophil CARD9 Mediates Autoantibody-induced Autoimmune Diseases by Controlling Gene Expression Changes in vivo. **Tamás Nemeth**, Semmelweis Egyetem *abstract 77*

3:00 pm Neutrophil Breaching of Venular Walls: Mode, Mechanisms and Pathogenesis. **Sussan Nourshargh**, William Harvey Research Institute

SCIENTIFIC PROGRAM

3:30 PM – 3:45 PM COFFEE BREAK *Great Hall Lobby*

3:45 PM – 5:15 PM CONCURRENT SESSIONS 5–6

CS 5 – CHECK-POINTS OF LEUKOCYTE RESPONSES

Great Hall – Salon I

Chair: Flavia Bazzoni; **Co-chair:** Nades Palaniyar

- 3:45 pm Regulation of Phagocyte Responses by Non-coding RNAs. **Flavia Bazzoni**, University of Verona
- 4:15 pm Deficiency in IRAK-4 Activity Attenuates Manifestations of Murine Lupus. **Andrei Medvedev**, University of Connecticut Health Center *abstract 90*
- 4:30 pm Cullin-5 promotes TRAF6 polyubiquitination and LPS signaling. **Richard Ye**, University of Macau *abstract 91*
- 4:45 pm Toll-like receptor trafficking and cellular responses are determined by common single nucleotide polymorphisms. **Jessica Moreland**, University of Texas Southwestern Medical Center *abstract 92*
- 5:00 pm HHV-8 Replication in Subtypes of Myeloid Dendritic Cells is Regulated by Differential Expression of Virus Receptors. **Giovanna Rappocciolo**, University of Pittsburgh *abstract 93*

CS 6 - NEUTROPHILS IN IMMUNITY

Great Hall – Salon II

Chair: Minsoo Kim; **co-chair:** Martin Pelletier

- 3:45 pm Role of neutrophils at the site of unhealing Leishmania mexicana induced lesion. **Benjamin Hurrell**, University of Lausanne *abstract 109*
- 4:00 pm TNF α drives the migration and crawling of neutrophils into afferent lymphatic vessels during antigen challenge in vivo. **Mathieu-Benoit Voisin**, Barts & The London SMD, Queen Mary University of London *abstract 110*
- 4:15 pm Effects of Antibody Opsonization on Early Yersinia pestis-Host Cell Interactions in the Skin and Draining Lymph Node in a Mouse Model of Bubonic Plague. **Jeffrey Shannon**, Rocky Mountain Labs *abstract 111*
- 4:30 pm Fc receptors on neutrophils: two sides of the same coin? **Marieke Heineke**, VUMC *abstract 112* *SLB Travel Awardee*
- 4:45 pm Neutrophil dysfunction in the pre-hospital setting following traumatic injury: Results from the “Golden Hour” study. **Jon Hazeldine**, University of Birmingham *abstract 113*
- 5:00 pm The Type of Monosaccharides Influences the Metabolic and Functional Responses of Neutrophils Activated with Pro-Inflammatory Cytokines. **Martin Pelletier**, Université Laval *abstract 114*

5:30 PM– 7:00 PM CULTURAL DIFFERENCES IN THE CAREER ADVANCEMENT EXPERIENCES *Classroom T-1*
Chair: Amanda Brown, Johns Hopkins University School of Medicine

SLB WOMEN AND DIVERSITY WORKSHOP

Featured Speaker: Barbara Walzog, Ludwig Maximilians-Universität München

Panelists: Angela Santoni (University of Rome); Arturo Zychlinsky (Max Planck Institut für Infektionsbiologie); Elizabeth Fitzpatrick (University of Tennessee Health Science Center); and Barbara Walzog (Ludwig Maximilians-Universität München)



SCIENTIFIC PROGRAM

SATURDAY, SEPTEMBER 17

8:30 AM – 4:00 PM REGISTRATION AND EXHIBITS *Great Hall Lobby*

8:30 AM – 10:00 AM CONCURRENT SESSIONS 7–8

CS 7 – FUNCTIONAL GENOMICS AND PROTEOMICS

Great Hall – Salon I

Chair: Gioacchino Natoli; **Co-chair:** Rebecca McCullough

- 8:30 am Transcriptional Control of Inflammatory Responses in Myeloid Cells. **Gioacchino Natoli**, IFOM-IEO
- 9:00 am Long noncoding RNA MEG3-4 tissue specifically regulates IL-1 β during pulmonary bacterial infection by repressing microRNA-138. **Min Wu**, University of North Dakota *abstract 153*
- 9:15 am Early tyrosine phosphorylation and comparative proteomics provide new insights into adenosine A2A receptor activities in human neutrophils. **Marc Pouliot**, Université Laval *abstract 156*
- 9:30 am Signaling pathways in neutrophils are regulated by surgical trauma – a proteomics study. **Wagner Fontes**, University of Brasilia *abstract 155*
- 9:45 am USP18 is required for HIV-1 infection in a human iPSC-derived macrophage infection model. **Jared Taylor**, University of Florida *abstract 154 SLB Travel Awardee*

10:00 AM – 10:15 AM COFFEE BREAK *Great Hall Lobby*

10:15 AM – 11:45 AM CONCURRENT SESSIONS 9–10

CS 9 – EFFECTOR FUNCTIONS OF LEUKOCYTES

Great Hall – Salon I

Chair: Marcus Thelen; **Co-chair:** Philip Owens

- 10:15 am Cystic Fibrosis is a new type of leukocyte adhesion deficiency disease. **Alessio Montresor**, University of Verona *abstract 171*
- 10:30 am Human blood monocytes are able to form extracellular traps. **Luc de Chaisemartin**, INSERM *abstract 172*
- 10:45 am Arthritogenic citrullinated peptides present in neutrophil extracellular traps are internalized by synovial fibroblasts through a RAGE-TLR9 axis and activate adaptive immunity in rheumatoid arthritis. **Carmelo Carmona-Rivera**, NIAMS-NIH *abstract 173 SLB Travel Awardee*
- 11:00 am PI3K Activity in the Tumor Microenvironment Promotes Mammary Tumor Growth and Metastasis and Inhibits Anti-tumor Immunity. **Philip Owens**, Vanderbilt University *abstract 174 SLB Travel Awardee*
- 11:15 am IFN- γ and IL-17A establish the balance between P. aeruginosa clearance and inflammatory potential during infection of human macrophage-neutrophil co-cultures. **Sirina Muntaka**, University of Nottingham *abstract 175*
- 11:30 am Advances on the biology of 6-sulfo LacNAc (slan)/M-DC8+ cells. **Alessandra Micheletti**, University of Verona *abstract 176*

CS 8 – NEUTROPHIL DIFFERENTIATION AND NEUTROPHIL-MEDIATED INFLAMMATION RESOLUTION

Great Hall – Salon II

Chair: Véronique Witko-Sarsat; **Co-chair:** Maria Fernandes

- 8:30 am Neutrophil differentiation and functions after modulation of DDR pathway. **Oleg Demidov**, INSERM *abstract 161*
- 8:45 am Polarization of innate neutrophils due to Tollip deficiency modulates colonic tumorigenesis. **Christina Lee**, Virginia Polytechnic Institute and State University *abstract 170 SLB Travel Awardee*
- 9:00 am Protein kinase inhibitor compound screen reveals ErbB family kinases as Regulators of neutrophil apoptosis in the context of inflammatory diseases. **Atiqur Rahman**, University of Sheffield *abstract 163 SLB Travel Awardee*
- 9:15 am Atypical Molecular Pattern Exposed by Peripheral Blood Neutrophils Treated with Sphingolipid Analog Drug FTY720. **Joanna Skrzeczynska-Moncznik**, Jagiellonian University *abstract 164*
- 9:30 am The Proliferating Cell Nuclear Antigen as a Regulator of Neutrophil's Fate. **Véronique Witko-Sarsat**, INSERM

CS 10 – NEUTROPHILS IN DISEASE

Great Hall – Salon II

Chair: Patrice Poubelle; **Co-chair:** Jadwiga Jablonska

- 10:15 am IFN α enhances the production of IL-6 by human neutrophils activated via TLR8. **Nicola Tamassia**, University of Verona *abstract 177*
- 10:30 am Emperipolesis is a novel cell-in-cell phenomenon that mediates transfer of neutrophil membrane to megakaryocytes and platelets. **Pierre Cunin**, Brigham and Women's Hospital *abstract 178 SLB Travel Awardee*
- 10:45 am Type I interferon-mediated polarization of tumor-associated neutrophils depends on CSF3R signaling pathway. **Jadwiga Jablonska**, Univ. Hospital Essen *abstract 179*
- 11:00 am Tumor Associated Neutrophils (TAN) Impair Cytotoxic T-cells Anti-tumor Effect by Inducing CD8+ Cells Apoptosis and Inhibiting Proliferation. **Merav Shaul**, Hadassah Medical Center *abstract 180*
- 11:15 am Differential mobilization of circulating neutrophil subpopulations in breast cancer metastasis. **Brian Hsu**, Goodman Cancer Res Ctr *abstract 181 SLB Travel Awardee*
- 11:30 am Characterization of neutrophil sub-populations in steady state and during cancer inflammation using high dimensional data analysis. **Carsten Krieg**, University Zürich *abstract 182*

SCIENTIFIC PROGRAM

11:45 AM – 1:45 PM POSTER SESSION II *Chiostro San Francesco*

Enjoy lunch on your own (purchase in cafeteria or nearby cafés) while viewing the EVEN-numbered abstract posters.

1:45 PM – 3:15 PM PLENARY SESSION IV: LEUKOCYTES IN HOST-PATHOGEN INTERACTIONS *Great Hall*

Chairs: Luis Montaner and Silvia Uriarte

- | | | | |
|--------|---|--------|---|
| 1:45pm | Neutrophil plasticity in <i>Helicobacter pylori</i> infection. Lee-Ann H. Allen , University of Iowa | 2:25pm | Mechanisms of NET formation. Arturo Zychlinsky , Max Planck Institute for Infection Biology |
| 2:05pm | Microbial Control of Tissue Immunity. Yasmine Belkaid , National Institute of Health, NIAID | 2:45pm | Neutrophil and Macrophage Dynamics in Helminth Infection. Judith Allen , University of Edinburgh |

3:15 PM – 3:30 PM COFFEE BREAK *Great Hall Lobby*

3:30 PM – 5:00 PM PLENARY SESSION V – LEUKOCYTES IN THE TUMOR MICROENVIRONMENT *Great Hall*

Chairs: Ann Richmond and Patrick P. McDonald

- | | | | |
|---------|--|---------|--|
| 3:30 pm | Tumor-associated Neutrophils in Early-Stage Human Lung Cancer. Evgeniy Eruslanov , Univ. of Pennsylvania | 4:10 pm | Distinct Neutrophil Subsets Shape Overall Contribution in Cancer. Zvika Granot , Hebrew University of Jerusalem |
| 3:50 pm | Life and Death Decision Points in Myeloid Development. Peter Murray , St. Jude Children's Research Hospital | 4:30pm | Cancer as a Disease of the Metaorganism. Giorgio Trinchieri , Center for Cancer Research, NCI, NIH |

5:00 PM – 5:20 PM NEUTROPHIL 2016 CLOSING SESSION *Great Hall*

The Neutrophil community and all those interested are called upon to share impressions on Neutrophil 2016, and to be briefed on upcoming Neutrophil meetings.

5:30 PM – 9:30 PM SLB COUNCIL MEETING *By Invitation*



POSTER SESSION FLOORPLAN

All posters will be on display throughout the entire conference but will be presented in two separate sessions. Poster Session I will be on Friday, September 16 at 12:00pm. Poster Session II will be held on Saturday, September 17 at 11:45am. Please note that your abstract number is also your assigned poster board number.

Each display board is mounted vertically, in the European fashion and has a 96x250 cm display surface. Push pins will be provided on-site. Please be certain to bring a poster which will fit in this display area. Set-up for all poster boards begins Friday, September 16th at 8:00am. Please remove all posters by Saturday, September 17th at 6:00pm. Posters will be on display in the Chiostro San Francesco.

POSTER SESSION I

Friday, September 16

12:00 - 2:00pm

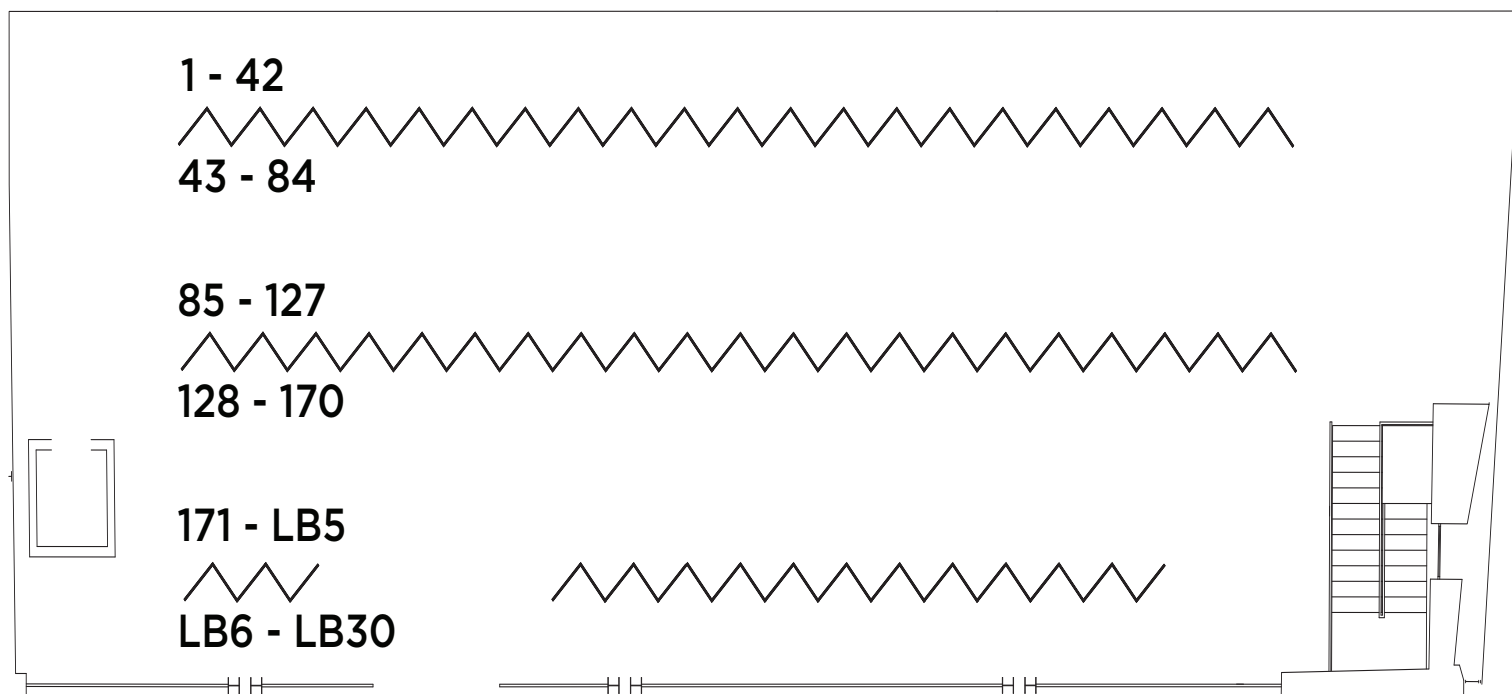
Odd Number Boards Present

POSTER SESSION II

Saturday, September 17

11:45am- 1:45pm

Even Number Boards Present



ENABLING TECHNOLOGIES FOR LEUKOCYTE RESEARCH

ABSTRACT: 1

POSTER SESSION I

Micro scale in vitro models to study neutrophil behavior: past, present and future

David J. Beebe. University of Wisconsin

ABSTRACT: 2

POSTER SESSION II

On-Chip Phenotypic analysis of Leukocyte Inflammatory Recruitment in Acute and Chronic Diseases.

Scott I. Simon. University of California, Davis

ABSTRACT: 3

POSTER SESSION I

Microfluidic chambers to screen neutrophil killing of *Aspergillus fumigatus* in the presence of novel bifunctional small molecules

Caroline N. Jones, Benjamin P. Heithoff, Kevin Forrest, Kevin Judice, Mark C. Poznansky, James F. Markmann, Jatin M. Vyas and Daniel Irimia. Virginia Polytechnic Institute and State University; Massachusetts General Hospital and Harvard Medical School and Cidara Therapeutics

ABSTRACT: 4

POSTER SESSION II

Rapid microfluidic immune cell migration analysis for biologically oriented and clinically oriented research

Francis Lin. University of Manitoba

ABSTRACT: 5

POSTER SESSION I

Application of machine learning algorithms to identify sepsis-specific neutrophil migration signatures

Felix Ellett, Julianne Jorgensen, Yuk Ming Liu, Myriam Martinez, Kathryn Butler and Daniel Irimia. BioMEMS Resource Center, Department of Surgery, Massachusetts General Hospital, Harvard Medical School, Shriners Burns Hospital, Boston, MA 02129 and Department of Surgery, Massachusetts General Hospital, Harvard Medical School, Shriners Burns Hospital, Boston, MA 02129

ABSTRACT: 6

POSTER SESSION II

Travel Award Winner

Staphylococcus aureus enterotoxin A induced pulmonary inflammation is accompanied by distinct changes in cell populations within the lung

Julia Svedova, Antoine M. Menoret, James Buturla and Anthony T. Vella. UCONN Health

ABSTRACT: 7

POSTER SESSION I

Agents differentiating HL-60 cells toward granulocyte-like cells determine their ability to release neutrophil extracellular traps

Aneta Manda-Handzlik, Sandra Sieczkowska, Weronika Bystrzycka, Anna Stelmaszczyk-Emmel, Urszula Demkow and Olga Ciepiela. Department of Laboratory Diagnostics and Clinical Immunology of Developmental Age, Medical University of Warsaw; Students' Scientific Group at Department of Laboratory Diagnostics and Clinical Immunology of Developmental Age, Medical University of Warsaw and Postgraduate School of Molecular Medicine, Medical University of Warsaw

ABSTRACT: 8

POSTER SESSION II

Imaging the interaction of the cytosolic subunits of the NADPH oxidase in live cells – from quantitative FRET imaging to 3D model

Oliver Nüße, Cornelia Ziegler, Leila Bouchab, Fabienne Mérola, Sophie Dupré and Maria Erard. Laboratoire de Chimie Physique, Univ. Paris-Sud, CNRS UMR 8000, Université Paris Saclay Bat 349, Orsay, 91405, France

ABSTRACT: 9

POSTER SESSION I

Chlorinated flavonoids are effective modulators of hypochlorous acid production, both in isolated human neutrophils and whole blood

Carina Proença, Daniela Ribeiro, Sara Tomé, Artur Silva, Eduarda Fernandes and Marisa Freitas. UCIBIO, REQUIMTE, Laboratório de Química Aplicada, Departamento de Ciências Químicas, Faculdade de Farmácia, Universidade do Porto, Portugal and Departamento de Química & QOPNA, Universidade de Aveiro, 3810-193 Aveiro, Portugal

ABSTRACT: 10

POSTER SESSION II

The importance of being "pure" neutrophils

Fabio Arruda-Silva, Federica Calzetti, Nicola Tamassia, Sara Gasperini and Marco A. Cassatella. University of Verona

SOLUBLE MEDIATORS AND CHEMOKINES

ABSTRACT: 11

POSTER SESSION I

Cathelicidins have direct antiviral activity against respiratory syncytial virus in vitro and protective function in vivo in mice and humans.

Donald J. Davidson, Silke M. Currie, Emily Gwyer Findlay, Amanda J. McFarlane, Paul M. Fitch, Bettina Bottcher, Nick Colegrave, Allan Paras, Agnieszka Jozwik, Christopher Chiu, Jurgen Schwarze and Donald J. Davidson. University of Edinburgh and Imperial College London

POSTER SESSIONS

ABSTRACT: 12

POSTER SESSION II

YKL-39 is expressed in tumour-associated macrophages, stimulates monocyte migration and reversely correlates with hematogenous and lymphatic metastasis in human breast cancer

Julia Kzhyskowska, Tengfei Liu, Irina Mitrofanova, Bin Song, Michail Buldakov, Marina Zavjalova, Nikolaj Litviakov, Nadezhda Cherdyntseva and Harald Klüter. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University; Laboratory for Translational Cellular and Molecular Biomedicine, Tomsk State University, Russia; German Red Cross Blood Service Baden-Württemberg - Hessen, Mannheim, Germany and Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Germany

ABSTRACT: 13

POSTER SESSION I

Travel Award Winner

Role of chemokine CXCL17 in macrophage homeostasis and infection

Kirti V. Sawant, Roberto P. Garofalo and Krishna Rajarathnam. University of Texas Medical Branch, Galveston, TX, USA.

ABSTRACT: 14

POSTER SESSION II

Natural nitration of CXCL12 reduces its signaling capacity and chemotactic activity in vitro and abrogates intra-articular lymphocyte recruitment in vivo.

Rik Janssens, Anneleen Mortier, Daiane Boff, Vincent Vanheule, Mieke Gouwy, Charlotte Franck, Olav Larsen, Mette M. Rosenkilde, Jo Van Damme, Flavio A. Amaral, Mauro M. Teixeira, Sofie Struyf and Paul Proost. Laboratory of Molecular Immunology, Department of Microbiology and Immunology, Rega Institute for Medical Research, KU Leuven; Departamento de Bioquímica e Imunologia, Instituto de Ciencias Biológicas, Universidade Federal de Minas Gerais, Brazil and Laboratory for Molecular Pharmacology, Department of Neuroscience and Pharmacology, The Panum Institute, University of Copenhagen, Denmark

ABSTRACT: 15

POSTER SESSION I

Agonists of the β -hydroxybutyrate receptor (HCA2) increase the chemotactic response of bovine neutrophils

Maria D. Carretta, Maria A. Hidalgo and Rafael A. Burgos. Institute of Pharmacology and Morphophysiology, Universidad Austral de Chile

ABSTRACT: 16

POSTER SESSION II

Staphylococcus aureus proteases inactivate galectin-3 immunoregulatory functions and increase the severity of skin infection

Jonas Elmwall, Jakub Kwiecinski, Manli Na, Abukar Ali, Veronica Osla, Lindsey Shaw, Wanzhong Wang, Karin Sävman, Elisabet Josefsson, Johan Bylund, Tao Jin, Amanda Welin and Anna Karlsson. Department of Rheumatology and Inflammation Research, Sahlgrenska Academy at the University of Gothenburg, Sweden; Department of Microbiology, Roy J. and Lucille A. Carver College of Medicine, University of Iowa, USA; Department of Cell Biology, Microbiology and Molecular Biology, University of South Florida, USA; Department of Medical Biosciences, Umeå University, Sweden; Perinatal Center, Departments of Physiology and Neuroscience and of Paediatrics, Sahlgrenska Academy at the University of Gothenburg and Department of Oral Microbiology and Immunology, Sahlgrenska Academy at the University of Gothenburg, Sweden

ABSTRACT: 17

POSTER SESSION I

Gro- α induce neutrophils chemotaxis via the pure chemotactic receptor CXCR2

Karin Christenson, Lena Björkman and Johan Bylund. TIMM Laboratory, Sahlgrenska Cancer Center, Institution of Biomedicine; Department of Rheumatology and Inflammation Research, Institute of Medicine and Department of Oral Microbiology and Immunology, Institute of Odontology

ABSTRACT: 18

POSTER SESSION II

Neutrophil extracellular traps in abdominal aortic aneurysm

Wolf Eilenberg, Branislav Zagraban, Sarah Hetzer, Katharina Muench, Suriya Prausmueller, Paimann Nawrozi, Vanessa Ellender, Christoph Neumayer, Ihor Huk and Christine Brostjan. Medical University of Vienna

ABSTRACT: 19

POSTER SESSION I

Multifactorial effects of nitro-oleic acid on macrophage mediated cardiovascular inflammation

Gabriela Ambrozova, Lukas Kubala, Tana Fidlerova, Hana Martiskova, Volker Rudolph, Bruce Freeman and Michaela Pekarova. Institute of Biophysics, Academy of Sciences of the Czech Republic, Brno, Czech Republic; International Clinical Research Center - Center of Biomolecular and Cellular Engineering, St. Anne's University Hospital, Brno, Czech Republic; Faculty of Science, Masaryk University, Brno, Czech Republic; Heart Centre, University Hospital of Cologne, Cologne, Germany and Department of Pharmacology and Chemical Biology, University of Pittsburgh, Pittsburgh, PA, USA

ABSTRACT: 20

POSTER SESSION II

S100A9 potentiates the activation of neutrophils by the etiological agent of gout, monosodium urate crystals.

Louis-Simon Rousseau, Guillaume Paré, Asmaa Lachhab, Paul Naccache, Philippe Tessier, Martin Pelletier and Maria Fernandes. Université Laval

NEUTROPHIL TRAFFICKING AND EFFECTOR FUNCTIONS

ABSTRACT: 21

POSTER SESSION I

SLB Presidential Jr. Fac/PD Finalist

F-actin-rich contractile endothelial pores prevent vascular leakage during leukocyte diapedesis through local RhoA signalling

Niels Heemskerk, Lilian Schimmel, Chantal Oort, Jos van Rijssel, Taofei Yin, Bin Ma, Jakobus van Unen, Bettina Pitter, Stephan Huveneers, Joachim Goedhart, Yi Wu, Eloi Montanez, Abigail Woodfin and Jaap D. van Buul. Department of Molecular Cell Biology, Sanquin Research and Landsteiner Laboratory, Academic Medical Centre, University of Amsterdam, 1066CX Amsterdam, The Netherlands.; Genetics and Developmental Biology, Center for Cell Analyses and Modelling, University of Connecticut Health Centre, Farmington, Connecticut 06032, USA.; Experimental Medicine and Pharmacology, Centre for Microvascular Research, William Harvey Research Institute, Barts and The London School of Medicine and Dentistry, Queen Mary, University of London, Charterhouse Square, London, EC1M 6BQ, UK.; Molecular Cytology, Swammerdam Institute for Life Sciences, University of Amsterdam, Amsterdam 1098XH, The Netherlands.; Department of Angiogenesis, Walter-Brendel-Center of Experimental Medicine Ludwig-Maximilians University Marchioninistr. 27 81377 Munich, Germany. and VU University medical center, Department of Molecular Cell Biology and Immunology, OI2 building, room 11 E 53, PO Box 7057, 1007 MB Amsterdam, The Netherlands.

ABSTRACT: 22

POSTER SESSION II

Endothelial TIM-1 triggers neutrophil adhesion under inflammatory conditions and contributes to the induction of autoimmunity

Stefano Angiari, Silvia Dusi, Barbara Rossi, Lara Toffali, Tommaso Carlucci, Carlo Laudanna and Gabriela Constantin. Department of Medicine, Section of General Pathology, University of Verona (Italy)University of Verona and The Center for Biomedical Computing (CBMC), University of Verona (Italy)

ABSTRACT: 23

POSTER SESSION I

X-linked neutropenia caused by overactive mutations in the Wiskott-Aldrich syndrome protein renders neutrophils hyperactive

Marton Keszei, Paul Drescher, Hannah Wurzer, Jaime James, Laura Köcher, Wenxia Song, Scott Snapper and Lisa Westerberg. Karolinska Institutet, Department of Microbiology Tumour and Cell biology, Stockholm, Sweden; University of Maryland, Department of Cell biology and Molecular Genetics, College Park, MD and Boston Children's Hospital, Division of Gastroenterology, Boston, MA

ABSTRACT: 24

POSTER SESSION II

Live cell time-lapse imaging allows quantification of NETosis and dissection of the pathways involved in cell death and chromatin decondensation

Simon M. Chatfield, James M. Murphy and Ian P. Wicks. Walter and Eliza Hall Institute of Medical Research; University of Melbourne and Royal Melbourne Hospital

ABSTRACT: 25

POSTER SESSION I

Cracking the Neutrophil Transcription Paradox: Transcriptional Firing Drives NETosis

Nades Palaniyar and Meraj A. Khan. The Hospital for Sick Children and University of Toronto

ABSTRACT: 26

POSTER SESSION II

Expression of Lewis-A glycans on PMN augments function by increasing transmigration

Jennifer C. Brazil, Ronen Sumagin, Richard D. Cummings, Nancy A. Louis and Charles A. Parkos. University of Michigan; Northwestern University; Harvard University and Emory University

ABSTRACT: 27

POSTER SESSION I

Neutrophil deposition of microparticles onto inflamed epithelium; a new mechanism to disrupt epithelial cell-to-cell adhesions and promote transepithelial migration

Veronika Butin-Israeli, Madelyn C. Houser, Mingli Feng, Edward B. Thorp, Asma Nusrat, Charles A. Parkos and Ronen Sumagin. Northwestern University, Feinberg School of Medicine; University of Michigan Medical School and Emory University School of Medicine

ABSTRACT: 28

POSTER SESSION II

Anti-mouse collagen XVII human immunoglobulin A antibodies induce Fc α R1-dependent neutrophil migration in a novel mice model of LABD

Esil Aleyd, Lydia P.E. van der Steen, Sylvia J.P. Bogaards, Stephan M. Pouw, René J.P. Musters, Michel Cogné, Cassian Sitaru, Jantine E. Bakema and Marjolein van Egmond. Department of Molecular Cell Biology and Immunology, VUmc; Department of Physiology, VUmc; Department of Immunology, University of Limoges; Department of Dermatology, University of Freiburg; Department of Otolaryngology/Head-Neck Surgery, VUmc and Department of Surgery, VUmc

ABSTRACT: 29

POSTER SESSION I

Targeting ADAM17 increases neutrophil recruitment and reduces bacterial spread during sepsis

Bruce Walcheck and Hemant K. Mishra. University of Minnesota

POSTER SESSIONS

ABSTRACT: 30

POSTER SESSION II

Travel Award Winner

Phosphoinositol-3-phosphate acts as a timer for ROS production in the phagosome by controlling p67phox accumulation

ZhiMin Song, Leila Bouchab, Elodie Hudik, Romain Le Bars, Oliver Nüße and Sophie Dupré. Université Paris-Sud, Orsay, France; CNRS U8000, LCP, Orsay, France and CNRS I2BC, Gif-sur-Yvette, France

ABSTRACT: 31

POSTER SESSION I

Transforming growth factor- β -activated kinase 1 (TAK1) is required for human Fc γ R11b-induced neutrophil extracellular trap (NET) formation

Carlos Rosales, Omar Rafael Alemán, Eileen Uribe-Querol and Nancy Mora. Instituto de Investigaciones Biomédicas-Universidad Nacional Autónoma de México and Facultad de Odontología, Universidad Nacional Autónoma de México

ABSTRACT: 32

POSTER SESSION II

Immobilized immune complexes induce the formation of neutrophil extracellular traps (NETs)

Martina Behnen, Christoph Leschczyk, Sonja Möller, Tobi Batel, Werner Solbach and Tamás Laskay. University of Lübeck, Department of Infectious Diseases and Microbiology, Lübeck, Germany

ABSTRACT: 33

POSTER SESSION I

HS1 deficiency impairs neutrophil activation and extravasation

Michael Schnoor, Joanna Latasiewicz, Ding Jing, Silke M. Currie, Inés M. Antón and Dietmar Vestweber. Department of Molecular Biomedicine, Cinvestav-IPN, Mexico-City, Mexico; Department of Vascular Biology, Max-Planck-Institute for Molecular Biomedicine, Münster, Germany and Centro Nacional de Biotecnología (CNB-CSIC), Madrid, Spain

ABSTRACT: 34

POSTER SESSION II

Group V secreted phospholipase A2 mediates the production of angiogenic and anti-angiogenic factors from human neutrophils

Stefania Loffredo, Francesco Borriello, Raffaella Iannone, Maria Rosaria Galdiero, Anne Lisa Ferrara, Francescopaolo Granata, Marco A. Cassatella And Gianni Marone. Department of Translational Medical Sciences and Center for Basic and Clinical Immunology Research (CISI), University of Naples Federico II, Naples, Italy; Department of Medicine, Section of General Pathology, University of Verona, Italy and CNR Institute of Experimental Endocrinology and Oncology "G. Salvatore", Naples, Italy

ABSTRACT: 35

POSTER SESSION I

The Role of T-cell lymphoma invasion and metastasis-inducing protein 1 (Tiam1) in Neutrophils.

Kirsti Hornigold, Martin Baker, Anna-Karin Johnsson, Angeliki Malliri and Heidi Welch. Signalling Programme, The Babraham Institute, Babraham Research Campus, Cambridge, CB22 4AT, UK and Cell Signalling Group, Cancer Research UK Manchester Institute, The University of Manchester, Manchester MB20 4BX, UK

ABSTRACT: 36

POSTER SESSION II

Regulation of Neutrophil Responses by P-Rex and Norbin

Chiara Pantarelli, Dingxin Pan and Heidi C. Welch. Babraham Institute

ABSTRACT: 37

POSTER SESSION I

Rac-GEFs activate discrete spatiotemporal pools of the small GTPase Rac to elicit specific neutrophil responses

Heidi CE Welch and Anna-Karin Johnsson. The Babraham Institute

ABSTRACT: 38

POSTER SESSION II

RIPK1-dependent NET formation requires MLKL and PAD4

Ben A. Croker, Meghan Bliss-Moreau, Arshed Al-Obeidi, Mathilde Gavillet, David A. Williams, Maria Ericsson and Akshay D'Cruz. Division of Hematology/Oncology, Boston Children's Hospital, Boston MA; Department of Pediatrics, Harvard Medical School, Boston MA and Department of Cell Biology, Harvard Medical School, Boston MA

ABSTRACT: 39

POSTER SESSION I

Blockade of neutrophil adhesion has therapeutic effect in animal models of Alzheimer's disease

Elena Zenaro, Enrica Pietronigro, Vittorina Della Bianca, Genny Piacentino, Marco Bonani, Tanaz Saatochi and Gabriela Constantin. University of Verona

ABSTRACT: 40

POSTER SESSION II

Impaired neutrophil extracellular traps (NETs) release in children with acute leukemias.

Magdalena Ostafin, Edyta Ulińska, Olga Ciepiela and Urszula Demkow. Department of Laboratory Diagnostics and Clinical Immunology of Developmental Age, Medical University of Warsaw and Department of Pediatrics, Hematology and Oncology, Medical University of Warsaw

ABSTRACT: 41

POSTER SESSION I

Role of receptor CXCR2 in the pathogenesis of experimental septic arthritis

Daiane Boff, Vivian LS Oliveira, Paul Proost, Mauro M. Teixeira and Flávio A. Amaral. KULEUVEN and UFMG

POSTER SESSIONS

ABSTRACT: 42

POSTER SESSION II

Nuclear segmentation of neutrophils and migration of neutrophils through narrow pores; cause or consequence?

Erinke van Grinsven, Nienke Vrisekoop, Peter Pickkers and Leo Koenderman. Laboratory for Translational Immunology, University Medical Centre Utrecht; Department of Respiratory Medicine, University Medical Centre Utrecht and Radboud University Nijmegen Medical Centre

ABSTRACT: 43

POSTER SESSION I

Travel Award Winner

High Affinity $\beta 2$ Integrins Inhibit Neutrophil Recruitment During Acute Murine *Pseudomonas aeruginosa* Pneumonia

Zachary S. Wilson, Lawrence Ahn, William S. Serratelli, Mehmet Sen and Craig T. Lefort. Brown University; Rhode Island Hospital and University of Houston

ABSTRACT: 44

POSTER SESSION II

Competition with high affinity glycosaminoglycan binding peptides inhibits neutrophil dependent inflammation

Paul Proost, Vincent Vanheule, Daiane Boff, Rik Janssens, Pedro E. Marques, Nikola Kitic, Nele Berghmans, Andreas J. Kungl, Flavio A. Amaral, Jo Van Damme, Mauro M. Teixeira and Anneleen Mortier. KU Leuven, Leuven, Belgium; Universidade Federal de Minas Gerais, Belo Horizonte, Brazil and Karl-Franzes Universitaet, Graz, Austria

ABSTRACT: 45

POSTER SESSION I

The small molecule CR3 (CD11b/CD18) agonist Leukadherin-1 is protective of the endothelial barrier disruption when challenged by neutrophils obtained from critically ill patients.

Jonathan S. Reichner, Catherine M. Dickinson, Xian M. O'Brien, Daithi Heffernan, William G. Cioffi, Mohd H. Faridi and Vineet Gupta. Rhode Island Hospital/Brown University, Department of Surgery, Providence, Rhode Island, USA and Department of Internal Medicine, Rush University Medical Center, Chicago, IL, USA

ABSTRACT: 46

POSTER SESSION II

Travel Award Winner

The ADP-ribosyl transferase activity of ExoS from *P. aeruginosa* targets Ras to inhibit reactive oxygen species production in human neutrophils.

Chairut vareechon, Stephanie Zmina, Mausita Karmaker, Eric Pearlman and Arne Rietsch. Case Western Reserve University and University of California Irvine

ABSTRACT: 47

POSTER SESSION I

Src family kinases in monosodium-urate crystal-induced inflammatory responses

Krisztina Futosi, Miklós Vértés, Tamás Németh and Attila Mócsai. Department of Physiology, Semmelweis University School of Medicine, Budapest, Hungary and MTA-SE "Lendület" Inflammation Physiology Research Group of the Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary

ABSTRACT: 48

POSTER SESSION II

Travel Award Winner

Effect of Ly6G ligation on neutrophil extravasation varies with the dependence of migration on $\beta 2$ integrins

Pierre Cunin, Pui Y. Lee, Edy Kim, Roy Soberman and Peter A. Nigrovic. Department of Medicine, Division of Rheumatology, Immunology and Allergy, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA.; Department of Medicine, Division of Immunology, Boston Children's Hospital, Harvard Medical School, Boston, MA, USA.; Department of Medicine, Division of Pulmonary and Critical Care Medicine, Harvard Medical School, Boston, MA, USA. and Department of Medicine, Division of Nephrology, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA

ABSTRACT: 49

POSTER SESSION I

Physiological stimuli induce ROS-independent NETosis using PAD4 and discrete signaling pathways.

Patrick P. McDonald. Pulmonary Division, Faculty of Medicine, Université de Sherbrooke and CR-CHUS, Sherbrooke, Québec (Canada)

THE EXPANDING WORLD OF LEUKOCYTES SUBSETS

ABSTRACT: 50

POSTER SESSION II

Travel Award Winner

Temporal Dynamics of Hepatic CD4⁺FoxP3⁺ Tregs Following Chronic CCl₄-induced Liver Fibrosis

Rebecca L. McCullough, Megan R. McMullen and Laura E. Nagy. Department of Pathobiology, Center for Liver Disease Research, Cleveland Clinic, Cleveland, OH; Department of Gastroenterology, Cleveland Clinic, Cleveland, OH and Department of Molecular Medicine, Case Western Reserve University, Cleveland, OH

ABSTRACT: 51

POSTER SESSION I

Neutrophil subsets and activation markers are sensitive diagnostic indicators of the abdominal aortic aneurysm

Branislav Zagraban, Wolf Eilenberg, Katharina Muench, Sarah Hetzer, Vanessa Elleder, Edith Lackner, Christa Drucker, Bernd Jilma, Christoph Neumayer, Ihor Huk and Christine Brostjan. Medical University of Vienna

ABSTRACT: 52

POSTER SESSION II

Travel Award Winner

Nitrogen Mustard-Induced Pulmonary Injury and Fibrosis Visualized by MRI and CT Imaging is Accompanied by an Accumulation of Foamy Macrophages in the Lung

Alessandro Venosa, Derek Adler, Edward Yurkow, Jeffrey Laskin, Andrew Gow and Debra Laskin. Rutgers University



POSTER SESSIONS

METABOLISM AND SIGNALING IN IMMUNITY

ABSTRACT: 53

POSTER SESSION I

W&D Paper of the Year

Impact of Obesity on Formation of Neutrophil Extracellular Traps by Murine Neutrophils During Sepsis

Elzbieta Kolaczowska, Iwona Cichon and Michal Santocki. Jagiellonian University, Krakow, Poland

ABSTRACT: 54

POSTER SESSION II

Neutrophils extracellular traps (NETs) formation in the synovial fluid of heifers with acute ruminal acidosis

Alejandra I. Hidalgo, Maria D. Carretta, Pablo Alarcón, Stefanie E. Teuber, Maria A. Hidalgo and Rafael A. Burgos. Institute of Pharmacology, Facultad de Ciencias Veterinarias, Universidad Austral de Chile, Valdivia, Chile

ABSTRACT: 55

POSTER SESSION I

Assessment of Arl4c Expression in T-cell Acute Lymphoblastic Leukemia and Acute Myeloid Leukemia Cell Lines

Sylvain G. Bourgoin and Lynn Davis. University Laval and CHU de Québec

ABSTRACT: 56

POSTER SESSION II

Functional role of Free Fatty Acid Receptor 4 (FFAR4/GPR120) agonists in bovine neutrophils

Stefanie Teuber, Ivan Olmo, Matias Muñoz, Rafael A. Burgos and Maria A. Hidalgo. Institute of Pharmacology, Universidad Austral de Chile, Chile

ABSTRACT: 57

POSTER SESSION I

Dual Immunometabolic Roles of the Melanocortin 5 Receptor in Obesity Induced Diabetes

Darren J. Lee and Dawei Wang. University of Oklahoma Health Sciences Center and Dean McGee Eye Institute

CYTOKINES IN INFLAMMATION AND IMMUNITY

ABSTRACT: 58

POSTER SESSION II

G. Jeanette Thorbecke

Dendritic cells: holding the balance of immunity and tissue integrity

Roxane Tussiwand, Bart Everts, Gary E. Grajales-Reyes, Edward J. Pearce and Kenneth M. Murphy. University of Basel, Switzerland; Leiden University Medical Center, Leiden Netherlands; Washington University in St. Louis, MO, USA and Department of Immunometabolism, Max Planck Institute of Immunobiology and Epigenetics, Freiburg, Germany

ABSTRACT: 59

POSTER SESSION I

T cells undergoing homeostatic expansion induce acute lymphoblastic leukemia in IL-15-deficient NOD.scid mice

Subburaj Ilangumaran, Diwakar Bobbala and Sheela Ramanathan. Department of Pediatrics, Immunology Division, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke J1H 5N4, Québec, Canada

ABSTRACT: 60

POSTER SESSION II

Interleukin-31 and Thymic Stromal Lymphopoietin Expression and Clinical Relevance in Classical Hodgkin Lymphoma Patients

Vito Pistoia, Elisa Ferretti, Stefan Hohaus, Arianna Di Napoli, Beatrice Belmonte, Elisa Cupelli, Eugenio Galli, Gino Tripodi, Claudio Tripodi, Giulio Fraternali-Orcioni, Jean Louis Ravetti and Anna Corcione. Laboratory of Oncology, Istituto Giannina Gaslini, Genova, Italy; Institute of Hematology, Catholic University of the Sacred Heart, Roma, Italy; Department of Clinical and Molecular Medicine, Pathology Unit, Sant'Andrea Hospital, Sapienza University, Roma, Italy; Tumor Immunology Unit, Department of Health Science, Human Pathology Section, University of Palermo, Palermo, Italy; Immunohaematology and Transfusion Centre, Istituto Giannina Gaslini, Genova, Italy and Unit of Pathology, IRCCS Azienda Ospedaliera Universitaria San Martino - IST - Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy

ABSTRACT: 61

POSTER SESSION I

Travel Award Winner

Functional characterization of meteorin-like/IL-39, a novel cytokine produced by macrophages and barrier tissues.

Irina Ushach, Christine Schneider, Melissa B. Lodoen and Albert Zlotnik. UC Irvine

ABSTRACT: 62

POSTER SESSION II

The gut microbiome is essential for the development of IL-33-responsive ILC2s that mediate chronic inflammation in ileitis-prone mice

Theresa T. Pizarro and K-Ann Buela. Case Western Reserve University

ABSTRACT: 63

POSTER SESSION I

Travel Award Winner

IL-22 And Stat3 Signaling Protect Intestinal Barrier Integrity Despite Persisting Intestinal Inflammation Following Alcohol And Burn Injury

Adam M. Hammer, Niya L. Morris, Abigail R. Cannon, Omair M. Khan, Robin C. Gagnon, Nellie V. Movtchan, Ilse van Langeveld, Suhail Akhtar, Xiaoling Li and Mashkoor A. Choudhry. Alcohol Research Program, Burn & Shock Trauma Research Institute, Loyola University Chicago Health Science Division, Maywood, Illinois, USA 60153

POSTER SESSIONS

ABSTRACT: 64

POSTER SESSION II

A novel role for IL-21 in modulating T cell antigen receptor responsiveness towards low affinity ligands in CD8+ T lymphocytes

Subburaj Ilangumaran, Diwakar Bobbala and Sheela Ramanathan. Department of Pediatrics, Immunology Division, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke, Québec, Canada

ABSTRACT: 65

POSTER SESSION I

Role of PR3 in IL-1b cleavage and release in human neutrophils

Hiroto Kambara, YuanYuan Chen and Hongbo R. Luo. Department of Lab Medicine, Boston Children's Hospital and Department of Pathology, Harvard Medical School

ABSTRACT: 66

POSTER SESSION II

Aryl Hydrocarbon Receptor FICZ Protects Intestinal Barrier by Upregulating Th17 Cell Responses in a Mouse Model of Alcohol and Burn Injury

Xiaoling Li, Adam M. Hammer, Abigail R. Cannon, Niya L. Morris, Robin C. Gagnon and Mashkoor A. Choudhry. Alcohol Research Program, Burn & Shock Trauma Research Institute, Loyola University Chicago Health Sciences Division, Maywood, IL 60153, USA

ABSTRACT: 67

POSTER SESSION I

IL-33 increases cysteinyl-leukotriene receptor expression in human peripheral lymphocytes

Marie Boudaud, Sylvie Turcotte, Jana Stankova and Marek Rola-Pleszczynski. Université de Sherbrooke and Centre de recherche du CHUS

ABSTRACT: 68

POSTER SESSION II

Travel Award Winner

Alcohol Suppresses IL-22 Expression During UC Remission and Enhances Mortality to the Mouse Enteropathogen C. Rodentium

Abigail R. Cannon, Adam M. Hammer, Niya L. Morris, Robin C. Gagnon, Suhail Akhtar, Xiaoling Li and Mashkoor A. Choudhry. Loyola University Chicago Biomedical Sciences

ABSTRACT: 69

POSTER SESSION I

Travel Award Winner

HIF-1a Inhibitor PX-478 Modulates MicroRNA Biogenesis and Inflammation in the Small Intestine Following Alcohol and Burn Injury

Niya L. Morris, Adam M. Hammer, Abigail R. Cannon, Robin C. Gagnon and Xiaoling Li. Loyola University Chicago Health Sciences Division; Integrated Cell Biology Program; Burn & Shock Trauma Research Institute, Department of Surgery and Alcohol Research Program

ABSTRACT: 70

POSTER SESSION II

Macrophage Migration Inhibitory Factor is Hepatoprotective following Chronic-Binge Ethanol Feeding in Mice through Suppression of Neutrophil Accumulation.

Kyle L. Poulsen, Megan R. McMullen, Adam R. Morris and Laura E. Nagy. Pathobiology, Center for Liver Disease Research - Cleveland Clinic, Cleveland, OH, United States and Gastroenterology and Hepatology - Cleveland Clinic, Cleveland, OH, United States

ABSTRACT: 71

POSTER SESSION I

Butyrate Protects Intestinal Immune Response During Acute on Chronic Ethanol Exposure

Gail A. Cresci, Bryan Glueck and Laura E. Nagy. Departments of Gastroenterology and Pathobiology, Cleveland Clinic, Cleveland, Ohio, USA

ABSTRACT: 72

POSTER SESSION II

Regulation of inflammation and thermogenesis in adipose tissues by pro-inflammatory cytokines

Sheela Ramanathan, Volatiana Rakotoarivelo, Marian Mayhue and Marie-France Langlois. Immunology Division, Pediatrics, Faculty of Medicine and Health Sciences, Clinical Research Center, Université de Sherbrooke, Sherbrooke, Quebec, Canada and Medicine, Faculty of Medicine and Health Sciences, Clinical Research Center, Université de Sherbrooke, Sherbrooke, Quebec, Canada

ABSTRACT: 73

POSTER SESSION I

Travel Award Winner

Peroxisome Proliferator-Activated Receptor-Gamma (PPAR?) plays a critical role in pulmonary immunity by altering macrophage cell surface receptor expression in a mouse model of Pseudomonas aeruginosa infection

Curtis J. Brenda, Jill A. Shults, Devin M. Boe and Elizabeth J. Kovacs. University of Colorado Denver and Loyola University Chicago

EMERGING TOPICS AND METHODOLOGIES IN NEUTROPHIL BIOLOGY

ABSTRACT: 74

POSTER SESSION II

Travel Award Winner

Microfluidics-based side view flow chamber reveals tether-to-sling transition in rolling neutrophils

Alex Marki, Edgar Gutierrez, Zbigniew Mikulski, Alex Groisman and Klaus Ley. La Jolla Institute for Allergy and Immunology; Department of Physics UCSD and Department of Bioengineering UCSD



POSTER SESSIONS

ABSTRACT: 75

POSTER SESSION I

Travel Award Winner

Morpho-rheological fingerprint of neutrophils in fMLP activated blood and RSV infections

Nicole Toepfner, Christoph Herold, Neda Farahi, Jochen Guck and Edwin R. Chilvers. Department of Medicine, University of Cambridge, School of Clinical Medicine, Cambridge, UK and Biotechnology Centre, Technische Universität Dresden, Dresden, Germany

ABSTRACT: 76

POSTER SESSION II

Long-term intensive endurance exercise leads to an innate immune response characterised by mobilisation of CD16+CD62L- neutrophils

Selma van Staveren, Twan ten Haaf, Margot Klöpping, Gerjen Tinnevelt, Jeroen Jansen, Jos de Koning, Nienke Vrisekoop and Leo Koenderman. UMC Utrecht; VU Amsterdam and Radboud University Nijmegen

ABSTRACT: 77

POSTER SESSION I

Neutrophil CARD9 Mediates Autoantibody-induced Autoimmune Diseases by Controlling Gene Expression Changes in Vivo

Tamás Németh, Krisztina Futosi, Cassian Sitaru, Jürgen Ruland, Attila Mócsai, Department of Physiology, Semmelweis University School of Medicine, Budapest, Hungary and MTA-SE "Lendület" Inflammation Physiology Research Group of the Hungarian Academy of Sciences and Semmelweis University, Budapest, Hungary, Department of Dermatology, University Hospital Freiburg and BIOS Centre for Biological Signalling Studies, Freiburg, Germany, Department of Clinical Chemistry and Pathobiochemistry, Technical University of Munich, Munich, Germany

EMERGING TOPICS AND METHODOLOGIES IN NEUTROPHIL BIOLOGY

ABSTRACT: 78

POSTER SESSION II

Neutrophil proteomics reveals pathways involved in preconditioning prevention of ischemia/reperfusion injury

Samina Arshid, Muhammad Tahir, Belchor Fontes, Edna F.S. Montero, Mariana S. Castro, Simone Sidoli, Veit Schwämmle, Peter Roepstorff and Wagner Fontes. Laboratory of Biochemistry and Protein Chemistry, Department of Cell Biology, Institute of Biology, University of Brasília, Brasília-DF, Brazil.; Department of Biochemistry and Molecular Biology, University of Southern Denmark, 5230 Odense M, Denmark.; Laboratory of Surgical Physiopathology (LIM-62), Faculty of Medicine, University of São Paulo, Brazil. and Epigenetics Program, Department of Biochemistry and Biophysics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 19104, USA

ABSTRACT: 79

POSTER SESSION I

Direct one-step isolation of untouched human neutrophils from whole blood without lysis

Carrie E. Peters, Nooshin Tabatabaei-Zavareh, Tim A. LeFevre, Steven M. Woodside and Terry E. Thomas. STEMCELL Technologies Inc, Vancouver, BC, Canada

ABSTRACT: 80

POSTER SESSION II

Multiple signals coordinate human-neutrophil migration during swarming in a novel ex vivo assays

Daniel Irimia, Eduardo Reategui, Aimal Khankhel, Fatameh Jalali, Elisabeth Wong, Hansang Cho, Charles Serhan, Jesmond Dalli, Hunter Elliot and Daniel Irimia. Massachusetts General Hospital; Harvard Medical School and Shriners Burns Hospital, Boston

ABSTRACT: 81

POSTER SESSION I

Mapping of glycoepitopes in neutrophil granules

Régis Dieckmann, Vignesh Venkatakrishnan, Niclas Karlsson, Johan Bylund and Anna Karlsson. University of Gothenburg, Sweden

ABSTRACT: 82

POSTER SESSION II

Assessing the production of reactive oxygen and nitrogen species by human neutrophils

Marisa Freitas, Carina Proença, Daniela Ribeiro and Eduarda Fernandes. UCIBIO, REQUIMTE, Laboratório de Química Aplicada, Departamento de Ciências Químicas, Faculdade de Farmácia, Universidade do Porto, Portugal

ABSTRACT: 83

POSTER SESSION I

Diversity Of Neutrophil Subpopulations In Cancer

Jitka Y. Sagiv, Janna Michaeli, Siman Assi, Inbal Mishalian, Hen Kisos, Paola Damti, D Lumbroso, Lola Polyansky, RV Sionov, A Ariel, AH Hovav, Zvi Fridlender and Zvi Granot. The Hebrew University of Jerusalem; Hadassah-Hebrew University Medical Center, Jerusalem and University of Haifa

ABSTRACT: 84

POSTER SESSION II

Neutrophils and lymphocytes express vomeronasal type-1 receptor (VN1R) genes

Patrick Marcinek and Dietmar Krautwurst. Deutsche Forschungsanstalt für Lebensmittelchemie - Leibniz Institut, 85354 Freising, Germany

ABSTRACT: 85

POSTER SESSION I

Food supplements regulate the expression of chemosensory receptor genes in neutrophils

Patrick Marcinek and Dietmar Krautwurst. Deutsche Forschungsanstalt für Lebensmittelchemie - Leibniz Institut, D-85354 Freising, Germany

POSTER SESSIONS

ABSTRACT: 86

POSTER SESSION II

Travel Award Winner

Plasma membrane profiling of the neutrophil by amino-oxybiotinylation and Tandem Mass Tag mass spectrometry
Joanna M. Pocock, Francois H. Demay, James C. Williamson, Paul J. Lehner and Edwin R. Chilvers. Department of Medicine, University of Cambridge, United Kingdom and Cambridge Institute for Medical Research, University of Cambridge, United Kingdom

ABSTRACT: 87

POSTER SESSION I

A genome-scale screen for new players in neutrophil biology

Craig T. Lefort and William S. Serratelli. Rhode Island Hospital and Warren Alpert Medical School of Brown University

CHECK-POINTS OF LEUKOCYTE RESPONSES

ABSTRACT: 88

POSTER SESSION II

SLB Presidential Jr. Fac/PD Finalist

NADPH oxidase activation regulates apoptotic cell clearance and antigenicity

Juhi Bagaikar, Jing Huang, Melody Y. Zeng, Nancy K. Pech and Mary C. Dinauer. Department of Pediatrics, Washington University School of Medicine in St. Louis, St. Louis, MO and Department of Pathology and Comprehensive Cancer Center, University of Michigan Medical School, Ann Arbor, MI

ABSTRACT: 89

POSTER SESSION I

SLB Presidential Student Finalist

Activated protein C (APC) binds leukocytes and signals to inhibit neutrophil extracellular trap formation and apoptosis; possible additional mechanism for anti-inflammatory and cytoprotective effects of APC

Laura D. Healy, Cristina Puy, Jose A. Fernández, Tiffany Chu, Andrés Gruber, John H. Griffin and Owen JT McCarty. Cell, Developmental & Cancer Biology Department, Oregon Health & Science University, Portland, OR, USA; Department of Biomedical Engineering, Oregon Health & Science University, Portland, OR, USA and Department of Molecular and Experimental Medicine, The Scripps Research Institute, La Jolla, CA, USA

ABSTRACT: 90

POSTER SESSION II

Deficiency in IRAK-4 Activity Attenuates Manifestations of Murine Lupus

Andrei Medvedev, Michael Murphy, Tissa Manavalan and Goutham Pattabiraman. University of Connecticut Health Center

ABSTRACT: 91

POSTER SESSION I

Cullin-5 promotes TRAF6 polyubiquitination and LPS signaling

Richard D. Ye, Ziyang Zhu, Lili Wang, Rui Hao, Bo Zhao and Lei Sun. University of Macau and Shanghai Jiao Tong University

ABSTRACT: 92

POSTER SESSION II

Toll-like receptor trafficking and cellular responses are determined by common single nucleotide polymorphisms

Jessica G. Moreland, Jessica S. Hook, Mou Cao, Lin Jordan and Renee M. Potera. University of Texas Southwestern Medical School

ABSTRACT: 93

POSTER SESSION I

HHV-8 Replication in Subtypes of Myeloid Dendritic Cells is Regulated by Differential Expression of Virus Receptors

Giovanna Rappocciolo, Diana Campbell, Paolo Piazza, Mariel Jais, Frank J. Jenkins and Charles R. Rinaldo. University of Pittsburgh

ABSTRACT: 94

POSTER SESSION II

ICOS signaling contributes to Staphylococcus aureus pneumonia

Dane Parker, Alice Prince and Rudy Jacquet. Columbia University

ABSTRACT: 95

POSTER SESSION I

Phagocytosis by opsonic receptors in macrophages

Rene E. Harrison, Mathieu B. Poirier and Urja Naik. University of Toronto

ABSTRACT: 96

POSTER SESSION II

Differential activation of formyl-peptide receptors by Staphylococcus aureus and consequences for inflammation

Elisabeth Weiß, Dennis Hanzelmann, Friederike von Loewenich, Katja Schlatterer, Jan Liese, Andreas Klos, Andreas Peschel and Dorothee Kretschmer. Interfaculty Institute for Microbiology and Infection Medicine, University of Tübingen, Tübingen, Germany; Institute for Medical Microbiology and Hygiene, Universitätsmedizin Mainz, Mainz, Germany; Institute for Medical Microbiology and Hygiene, UKT Tübingen, Tübingen, Germany and Department of Medical Microbiology and Hospital Epidemiology, Hannover Medical School, Hannover, Germany

ABSTRACT: 97

POSTER SESSION I

LTD4-induced monocyte/macrophage migration: a Role for PTPe?

Fanny Lapointe, Marie Boudaud, Sylvie Turcotte, Marek Rola-Pleszczynski and Jana Stankova. Université de Sherbrooke



POSTER SESSIONS

ABSTRACT: 98

POSTER SESSION II

The role of IL-15 trans-presentation in antigen cross-presentation

Sheela Ramanathan, Sakina Orkhis, Subburaj Ilangumaran and Alfredo Menendez. Immunology Division, Departments of Pediatrics, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke, Quebec, Canada and Departments of Microbiology, Faculty of Medicine and Health Sciences, Université de Sherbrooke, Sherbrooke, Quebec, Canada

ABSTRACT: 99

POSTER SESSION I

Stabilin-1 is a functional biomarker for pro-fibrotic alternative macrophages predicting pathological heart remodelling in patients with heart failure during the left ventricular assist device therapy

Julia Kzhyshkowska, Kondaiah Moganti, Katarina Wassilew, Bin Song, Evgenij Potapov, Thomas Krabatsch, Michael Dandel, Amanda Mickley, Harald Klueter and Roland Hetzer. Institute of Transfusion Medicine and Immunology, Medical Faculty Mannheim, Heidelberg University, Germany; German Red Cross Blood Service Baden-Württemberg-Hessen, Mannheim, Germany; German Heart Centre Berlin, Germany and Laboratory for translational cellular and molecular biomedicine, Tomsk State University, Tomsk Russia

Abstract: 100 Poster Session II

Loss of MEKK2 and MEKK3 results in increased ROS and is protective in LPS-induced lung injury

Abdul Basit, Qianying Yuan, Wenwen Tang and Dianqing Wu. Yale School of Medicine

ABSTRACT: 101

POSTER SESSION I

Distinct role for MyD88 signaling in myeloid cells and stromal cells in an imiquimod-induced mouse model of psoriasis

Sara Costa, Dalila Bevilacqua, Anthony L. DeFranco, Clifford A. Lowell, Marco Cassatella and Giampiero Girolomoni. Department of Medicine Section of General Pathology University of Verona; Departments of Laboratory Medicine and Microbiology/Immunology, University of California, San Francisco, CA, United States and Department of Medicine-Section of Dermatology and Venereology, University of Verona, Italy

ABSTRACT: 102

POSTER SESSION II

Responses of donkey monocytes to Toll-like receptor agonists

Michel L. Vandenplas, Kathleen Yvorchuk -StJean, Lisa Ebner, Erika Little, Sean Callanan and Bernard Grevemeyer. Dept. Clinical & Biomedical Sciences, Ross University School of Veterinary Medicine, Island Main Rd, Basseterre, St. Kitts and Nevis

ABSTRACT: 103

POSTER SESSION I

Travel Award Winner

Differential Role Of The Transcriptional And Non-Transcriptional Functions Of Irf-3 In High Fat Diet-Induced Liver Injury

Carlos Sanz Garcia, Sanjoy Roychowdhury, Saurabh Chattopadhyay, Katherine Pollard, Megan McMullen, Ganes Sen and Laura Nagy. Pathobiology, Center for Liver Disease Research, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, USA and Immunology, Center for Liver Disease Research, Lerner Research Institute, Cleveland Clinic, Cleveland, Ohio, USA

ABSTRACT: 104

POSTER SESSION II

Activity of cell surface 90kDa Heat Shock Protein (HSP90) is necessary for cytokine production but not for target engulfment following pattern recognition by macrophages

Malgorzata Bzowska, Anna Nogiej, Krystian Bania, Magdalena Zygmunt and Krzysztof Guzik. Department of Immunology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Cracow, Poland

Abstract: 105 Poster Session I

Silencing endothelial cell receptor, Tie1, reduces inflammation and vascular permeability following hemorrhage priming for the development of acute respiratory distress syndrome in mice.

Joanne L. Lomas-Neira, Chun-Shiang Chung and Jiali Zhu. Rhode Island Hospital and Brown University

ABSTRACT: 106

POSTER SESSION II

Role of CK2 in neutrophil signaling and functional responses

Thornin Ear and Patrick P. McDonald. Pulmonary Division, Faculty of Medicine, Université de Sherbrooke and CR-CHUS, Sherbrooke, Québec (Canada).

NEUTROPHILS IN IMMUNITY

ABSTRACT: 107

POSTER SESSION I

SLB Presidential Jr. Fac/PD Finalist

A Novel Role for JNK in Neutrophils: JNK Uniquely Regulates ROS Production and NADPH-Oxidase-Dependent NETosis

Meraj A. Khan, Armin Farahvash, Johann Christoph-Licht, Neil Sweezey and Nades Palaniyar. The Hospital for Sick Children and University of Toronto

ABSTRACT: 108

POSTER SESSION II

Dolph O. Adams

Neutrophils and influenza-specific CD8 T cells in the flu-infected airways

Kihong Lim and Minsoo Kim. University of Rochester

POSTER SESSIONS

ABSTRACT: 109

POSTER SESSION I

Role of neutrophils at the site of unhealing *Leishmania mexicana* induced lesion

Benjamin P. Hurrell, Manon Beaumann, Sandrina Heyde, Andreas J. Müller and Fabienne Tacchini-Cottier. University of Lausanne and Otto-von-Guericke University Magdeburg

ABSTRACT: 110 Poster Session II

TNFA drives the migration and crawling of neutrophils into afferent lymphatic vessels during antigen challenge in vivo.

Mathieu-Benoit Voisin, Samantha Arokiasamy and Sussan Nourshargh. Queen Mary University of London

ABSTRACT: 111

POSTER SESSION I

Effects of Antibody Opsonization on Early *Yersinia pestis*-Host Cell Interactions in the Skin and Draining Lymph Node in a Mouse Model of Bubonic Plague

Jeffrey G. Shannon and B. Joseph Hinnebusch. Laboratory of Zoonotic Pathogens, Rocky Mountain Laboratories, NIAID, NIH, Hamilton, MT, USA

ABSTRACT: 112

POSTER SESSION II

Travel Award Winner

Fc receptors on neutrophils: two sides of the same coin?

Marieke H. Heineke, Esil Aleyd, Sanae Ben Mkaddem, Renato C. Monteiro, Jantine E. Bakema and Marjolein van Egmond. Department of Molecular Cell Biology and Immunology, VU University Medical Center, Amsterdam, The Netherlands; National French Institute of Health and Medical Research (INSERM) Unit 1149, Center of Research on Inflammation, Paris, France; Tumor Biology Section, Department of Otolaryngology/Head-Neck Surgery, VU University Medical Center, Amsterdam, The Netherlands and Department of Surgery, VU University Medical Center, Amsterdam, The Netherlands

ABSTRACT: 113

POSTER SESSION I

Neutrophil dysfunction in the pre-hospital setting following traumatic injury: Results from the "Golden Hour" study.

Jon Hazeldine, Emma Toman, David Davies, Zhangjie Su, Peter Hampson, Robert J. Dinsdale, Nicholas Crombie, Paul Harrison, Antonio Belli and Janet M. Lord. Institute of Inflammation and Ageing, University of Birmingham, Birmingham, UK.; NIHR Surgical Reconstruction and Microbiology Research Centre, Queen Elizabeth Hospital Birmingham, UK.; Healing Foundation Centre for Burns Research, Queen Elizabeth Hospital, Birmingham, UK. and Midlands Air Ambulance, Unit 16 Enterprise Trading Estate, Brierley Hill, West Midlands, UK.

ABSTRACT: 114

POSTER SESSION II

The Type of Monosaccharides Influences the Metabolic and Functional Responses of Neutrophils Activated with Pro-Inflammatory Cytokines

Martin Pelletier, Asmaa Lachhab, Maude Leclerc and Benjamin Brisebois. Infectious Diseases and Immunity Research Division, CHU de Québec-Université Laval Research Center and Department of Microbiology, Infectious Disease and Immunology, Faculty of Medicine, Université Laval

ABSTRACT: 115

POSTER SESSION I

PHD2 as a regulator of myeloid inflammatory response

Sunday Sormendi-Gómez and Ben Wielockx. Klinische Pathobiochemie, Medizinische Fakultät, Technische Universität Dresden, Germany

ABSTRACT: 116

POSTER SESSION II

Secondary necrotic neutrophils release interleukin-16C and MIF from stores in the cytosol

Tamás Laskay and Sara Roth. University of Lübeck

ABSTRACT: 117

POSTER SESSION I

Morpho-functional changes of human neutrophils treated with dopaminergic agents: relevance for multiple sclerosis

Monica Pinoli, Emanuela Rasini, Michela Gaiazzi, Magda De Eguileor, Laura Pulze, Terenzio Congiu, Mauro Zaffaroni, Marco Cosentino and Franca Marino. Center for Research in Medical Pharmacology, University of Insubria, Varese, Italy; Department of Biotechnology and Life Sciences, University of Insubria, Varese, Italy; Department of Surgical and Morphological Sciences, University of Insubria, Varese, Italy and Multiple Sclerosis Center, S. Antonio Abate Hospital, Gallarate, Varese, Italy

ABSTRACT: 118

POSTER SESSION II

Zebrafish as animal model to study intestinal inflammation

Carmen G. Feijoo, Pilar Ulloa and Camila Solis. Universidad Andres Bello

ABSTRACT: 119

POSTER SESSION I

Human neutrophils phagocytose mycobacteria through interactions between LacCer and α 1,2-mannose side branches of LAM

Hitoshi Nakayama, Noriko Yokoyama and Kazuhisa Iwabuchi. Juntendo University Faculty of Health Care and Nursing and Institute for Environmental and Gender-Specific Medicine, Juntendo University Faculty of Medicine

ABSTRACT: 120

POSTER SESSION II

Cytoskeleton re-organization during NET formation

Darko Stojkov, Poorya Amini, Hans-Uwe Simon and Shida Yousefi. University of Bern, Institute of Pharmacology

ABSTRACT: 121

POSTER SESSION I

Organization and immunological functions of Lactosylceramide-enriched lipid rafts

Kazuhisa Iwabuchi, Hitoshi Nakayama, Noriko Yokoyama and Kumiko Ishii. Institute for Environmental and Gender-Specific Medicine, Graduate School of Medicine; Infection Control Nursing, Graduate School of Health Care and Nursing, Juntendo University and Laboratory for Biochemistry, School of Health Care and Nursing



POSTER SESSIONS

ABSTRACT: 122

POSTER SESSION II

Optic atrophy 1 (OPA1) controls energy metabolism and contributes to antibacterial functions of neutrophils

Poorya Amini, Darko Stojkov, Kevin Oberson, Luca Scorrano, Charaf Benarafa, Shida Yousefi and Hans-Uwe Simon. Pharmacology University of Bern; Institute of Molecular Medicine (VIMM), Padua and Theodor Kocher Institute, University of Bern

ABSTRACT: 123

POSTER SESSION I

Activation of neutrophils by immunoglobulin A (IgA) exacerbates pathogenesis of inflammatory bowel disease (IBD)

Marijn Bögels, Lydia PE van der Steen, Gerd Bouma and Marjolein van Egmond. Department of Molecular Cell Biology and Immunology, VU University Medical Center Amsterdam; Department of Gastroenterology, VU University Medical Center Amsterdam and Department of Surgery, VU University Medical Center Amsterdam

ABSTRACT: 124

POSTER SESSION II

Travel Award Winner

Refractory Neutrophils in the Closed Eye are Associated with Ocular Surface Dysregulation

Cameron K. Postnikoff and Kelly K. Nichols. University of Alabama at Birmingham

ABSTRACT: 125

POSTER SESSION I

Travel Award Winner

Deficiency of NADPH oxidase NCF2 synergizes with other lupus-predisposing genes to accelerate lupus in NZM.2328 Mice

Dae-goon Yoo, Ning Yu, Lizet Perez-Zapata, Emilia A. Barbu, Jeanette T. Pingel, Monica M. Purmalek, Mariana J. Kaplan, Chaim O. Jacob and Mary C. Dinauer. Washington University in St. Louis; University of Southern California and National Institutes of Health

ABSTRACT: 126

POSTER SESSION II

Neutrophil activation in systemic anaphylaxis: results from the multicentric NASA study

Luc de Chaisemartin, Friederike Jönsson, Aurélie Gouel-Chéron, Vanessa Granger, Caitlin Gillis, Neukirch Catherine, Nicaise-Roland Pascale, Fadia Dib, Florence Tubach, Dan Longrois, Sylvie Chollet-Martin and Pierre Bruhns. APHP, Hôpital Bichat, Immunology, Paris, France; UMR996 - Inflammation, Chemokines and Immunopathology -, INSERM, Univ Paris-Sud, Université Paris-Saclay, Chatenay-Malabry, France; Institut Pasteur, Département d'Immunologie, Unité des Anticorps en Thérapie et Pathologie, Paris, France; INSERM, U 1222, Paris, France; APHP, Hôpital Bichat, Service Pneumologie A, Paris, France; APHP, Hôpital Bichat, Département d'épidémiologie et de recherche clinique, Paris, France; UMR1123, ECEVE, INSERM, Université Paris Diderot, Sorbonne Paris Cité, Paris, France; Université Paris Diderot, Sorbonne Paris Cité, Paris, France; APHP, Hôpital Bichat, Département d'Anesthésie-Réanimation, Paris, France and UMR1152, INSERM, Université Paris Diderot Paris 7, Paris, France

ABSTRACT: 127

POSTER SESSION I

Neutrophils and Monocytes induce a synergistic Increase of Blister Formation in a Human Skin Cryosection Model of Bullous Pemphigoid

Elisabeth de Graauw, Cassian Sitaru, Luca Borradori, Shida Yousefi, Dagmar Simon, Hans-Uwe Simon, Institute of Pharmacology, University of Bern, Switzerland, Department of Dermatology, University Medical Center Freiburg, Germany, Department of Dermatology, Inselspital Bern, Switzerland

ABSTRACT: 128

POSTER SESSION II

Travel Award Winner

Do NETs Matter? Establishing a Role for Neutrophil Extracellular Traps in Patho-Biology of Indirect Acute Lung Injury

Bethany Biron Girard, Chun-Shiang Chung, Yaping Chen, Jonathan Reichner and Alfred Ayala. Brown University and Rhode Island Hospital

ABSTRACT: 129

POSTER SESSION I

Neutrophils Contribute to Pathology but not Neovascularization Following Ocular Herpes Simplex Virus Type 1 Infection

Daniel J. Carr, Christopher D. Conrady, Derek J. Royer and Hem R. Gurung. University of Oklahoma Health Sciences Center

ABSTRACT: 130

POSTER SESSION II

Tumor-associated neutrophils from a bird's eye view

Simon Sody, Katrin Hahnel, Matthias Gunzer and Sven Brandau. Department of Otorhinolaryngology, University Hospital Essen, University of Duisburg-Essen, Germany and Institute for Experimental Immunology and Imaging, University Hospital Essen, University Duisburg-Essen

ABSTRACT: 131

POSTER SESSION I

Travel Award Winner

Hypoxia upregulates PI3Kinase-dependent neutrophil degranulation and neutrophil-mediated tissue injury

Katharine M. Lodge, Kim Hoenderdos, Wei Li, Alison M. Condliffe and Edwin R. Chilvers. University of Cambridge, UK and University of Sheffield, UK

ABSTRACT: 132

POSTER SESSION II

Rhesus monkey neutrophils are hyper reactive as compared to human and marmoset monkey neutrophils; the rhesus monkey experimental autoimmune encephalomyelitis (EAE) as a model for acute disseminated encephalomyelitis (ADEM).

Krista G. Haanstra, Nicole Heijmans and Bert A. 't Hart. Department Immunobiology, Biomedical Primate Research Centre, Rijswijk, The Netherlands. and University of Groningen, Department Neuroscience University Medical Center, Groningen, The Netherlands

POSTER SESSIONS

ABSTRACT: 133

POSTER SESSION I

Travel Award Winner

Functional and Metabolic Reprogramming Drives the Development of a Pathogenic Subset of Neutrophils in Inflammatory Airway Diseases

Osric A. Forrest, Sarah Ingersoll, Marcela Preininger, Julie Laval, Dominique Limoli, Milton Brown, Frances Lee, Branchetna Bedi, Ruxana Sadikot, Joanna Goldberg, Vin Tangpricha and Rabindra Tirouvanziam. Center for Cystic Fibrosis and Airways Disease Research, Children's Healthcare of Atlanta; Department of Pediatrics, Emory University School of Medicine and Department of Medicine, Emory University School of Medicine

ABSTRACT: 134

POSTER SESSION II

Galangin as Modulator of NADPH Oxidase and Myeloperoxidase Activity in Peripheral Blood Neutrophils from Patients with Rheumatoid Arthritis

Larissa F. Marchi, Adriana B. Paoliello-Paschoalato, Lucineia R. Albiero, Micassio F. Andrade, Rene D. Oliveira, Ana Elisa S. Azzolini, Eduardo A. Donadi and Yara M. Lucisano-Valim. School of Pharmaceutical Sciences of Ribeirao Preto, University of Sao Paulo and Ribeirao Preto Medical School, University of Sao Paulo

ABSTRACT: 135

POSTER SESSION I

Travel Award Winner

Neutrophils' influx and propensity to form NETs is regulated by SLPI in experimental model of psoriasis

Monika Majchrzak-Górecka, Beata Grygier and Joanna Cichy. Dept. of Immunology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Krakow, Poland

ABSTRACT: 136

POSTER SESSION II

Travel Award Winner

Different functions of neutrophil-derived microvesicles and trails

Sanjeeb Shrestha, Young-Jin Youn, Jun-Kyu Kim, Shin Kim and Chang-Won Hong. Hallym University; Kyungpook National University and Keimyong University

ABSTRACT: 137

POSTER SESSION I

Targeting specific phosphoinositide 3-kinase isoforms reduces damaging neutrophil functions without impairing bacterial phagocytosis in Chronic Obstructive Pulmonary Disease

Georgia M. Walton, Adam JA McGuinness, Malcolm Begg, Augustin J. Amour, Edith M. Hessel, Adam Usher, James A. Stockley, Christopher Chadwick, Matthew Pottle, Hannah Greenwood, Robert A. Stockley and Elizabeth Sapey. University of Birmingham, UK and GlaxoSmithKline, UK

ABSTRACT: 138

POSTER SESSION II

Peptidomimetics as novel formyl peptide receptor 2 (FPR2) modulators in human and mouse neutrophils

André Holdfeldt, Claes Dahlgren, Huamei Forsman, Sarah Skovbakke and Henrik Franzky. University of Gothenburg and University of Copenhagen

ABSTRACT: 139

POSTER SESSION I

Pepducins designed to target their cognate G-protein coupled receptors FPR1, P2Y2R and, CXCR4 allosterically modulate the function of FPR2

M. Gabl, A. Holdfeldt, M. Winther, C. Dahlgren, H. Forsman, The Phagocyte Research Laboratory, Department of Rheumatology & Inflammation Research, University of Gothenburg, Sweden

ABSTRACT: 140

POSTER SESSION II

An emerging oral pathogen, *Peptoanaerobacter stomatis*, promotes degranulation and primes the respiratory burst response in human neutrophils.

Silvia M. Uriarte, Emeri Jimenez-Flores, Maria V. Sizova, Slava S. Epstein and Richard J. Lamont. University of Louisville; Evelo Biosciences and Northeastern University

ABSTRACT: 141

POSTER SESSION I

Travel Award Winner

Autophagy primes neutrophils for neutrophil extracellular trap formation during sepsis

So Young Park, Sanjeeb Shrestha, Shin-Yeong Kim, Young-Jin Youn, Jun-Kyu Kim, Ki-Suck Jung, Myung Goo Lee, Yong Bum Park, Eun Kyung Mo, Yousang Ko, Suh-Young Lee, Yoonsuck Koh, Myung Jae Park, Dong-Keun Song and Chang-Won Hong. Department of Pulmonary and Critical Care Medicine, KyungHee University Medical Center, Seoul, 20447, Republic of Korea.; Department of Pharmacology, College of Medicine, Hallym University, Chuncheon, 24252, Republic of Korea.; Department of Physiology, School of Medicine, Kyungpook National University, Daegu, 41944, Republic of Korea.; Lung Research Institute of Hallym University, College of Medicine, Hallym University, Seoul, 05355, Republic of Korea; Division of Pulmonary, Allergy and Critical Care Medicine, Department of Internal Medicine, Hallym University Sacred Heart Hospital, Anyang, 14068, Republic of Korea.; Division of Pulmonary, Allergy and Critical Care Medicine, Department of Internal Medicine, Chuncheon Sacred Heart Hospital, Chuncheon, 24252, Republic of Korea.; Division of Pulmonary, Allergy and Critical Care Medicine, Department of Internal Medicine, Kangdong Sacred Heart Hospital, Seoul, 05355, Republic of Korea. and Department of Pulmonary and Critical Care Medicine, Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea.

ABSTRACT: 142

POSTER SESSION II

Cross-talk of dendritic cells with neutrophils that have been activated with immunoglobulin A

Annelot Breedveld, Reina Mebius and Marjolein van Egmond. VU medical center Amsterdam



POSTER SESSIONS

ABSTRACT: 143

POSTER SESSION I

Neutrophil expression of B7-H6 and HLA - implications on interactions between NK cells and neutrophils in inflammation

Elin Bernson, Karin Christenson, Malin Pasanen, Rebecca Riise, Firoozeh Amirbeagi, Johan Bylund and Fredrik Bergh Thorén. TIMM Laboratory, Sahlgrenska Cancer Center, University of Gothenburg, Sweden; Department of Oral Microbiology and Immunology, Institute of Odontology, University of Gothenburg, Sweden and Department of Rheumatology and Inflammation Research, University of Gothenburg, Sweden

ABSTRACT: 144

POSTER SESSION II

Identification of granulocytic myeloid-derived suppressor cells (G-MDSCs) in the peripheral blood of Hodgkin and non-Hodgkin lymphoma patients

Olivia Marini, Cecilia Spina, Elda Mimiola, Adriana Cassaro, Giovanni Malerba, Giuseppe Todeschini, Omar Perbellini, Maria Scupoli, Giuseppe Carli, Davide Facchinelli, Marco A. Cassatella, Patrizia Scapini and Cristina Tecchio. Department of Medicine, Section of Hematology and Bone Marrow Transplant Unit, University of Verona, Verona, Italy; Department of Medicine, Section of General Pathology, University of Verona, Verona, Italy; Department of Neurological, Biomedical and Movement Sciences, Section of Biology and Genetics, University of Verona, Verona, Italy and Department of Interdepartmental Laboratory for Medical Research (LURM), University of Verona, Verona, Italy

ABSTRACT: 145

POSTER SESSION I

Role of neutrophils in an imiquimod-induced mouse model of psoriasis

Dalila Bevilacqua, Sara Costa, Elena Cavegion, Marco Cassatella, Giampiero Girolomoni and Patrizia Scapini. Università di Verona, Dipartimento di Medicina and Università di Verona, Sezione di Dermatologia e Venerologia

ABSTRACT: 146

POSTER SESSION II

Is there a role for neutrophils in the adjuvanticity of alum?

Manuel Reithofer, Dominika Polak, Claudia Kitzmüller, Barbara Bohle and Beatrice Jahn-Schmid. Medical University of Vienna

ABSTRACT: 147

POSTER SESSION I

Travel Award Winner

Signaling Pathways Mediating the Human Neutrophil Response to Fungal β -glucan

Hadley Witt, Xian M. O'Brien, Courtney M. Johnson, Allan Huang and Jonathan S. Reichner. Division of Surgical Research, Department of Surgery, Rhode Island Hospital; Warren Alpert Medical School, Brown University and Graduate Program in Pathobiology, Brown University

ABSTRACT: 148

POSTER SESSION II

STAT factors control the expression of certain genes in human neutrophils, yet without much impact on functional responses.

Thomas Z. Mayer and Patrick P. McDonald. Pulmonary Division, Faculty of Medicine, Université de Sherbrooke and CR-CHUS, Sherbrooke, Québec (Canada).

ABSTRACT: 149

POSTER SESSION I

Travel Award Winner

The role of hemorrhage-primed neutrophils in altering endothelial cell Tie1/Tie2 expression in the development of indirect acute respiratory distress syndrome

Jiali Zhu, Alfred Ayala and Joanne Lomas-Neira. Rhode Island Hospital/Brown University, Providence, RI and Changhai Hospital, Secondary Military Medical University, Shanghai, China

ABSTRACT: 150

POSTER SESSION II

TNF α promotes CCR7-dependent migration of neutrophils and their subsequent crawling into the lymphatic vessels in vivo.

Samantha Arokiasamy, Wen Wang, Sussan Nourshargh and Mathieu-Benoit Voisin. Queen Mary University of London

ABSTRACT: 151

POSTER SESSION I

Travel Award Winner

Deficiency in Toll-interacting protein (Tollip) skews inflamed yet incompetent innate leukocytes in vivo during DSS-induced septic colitis

Yao Zhang, Na Diao and Liwu Li. Department of Biological Sciences, Virginia Tech and Department of Gastroenterology, Nanfang Hospital, Southern Medical University, China

ABSTRACT: 152

POSTER SESSION II

Travel Award Winner

Toxoplasma gondii down regulates IL-1 β production by human neutrophils in the presence of lipopolysaccharide

Tatiane Soares de Lima, Lanny Gov and Melissa Lodoen. University of California Irvine

FUNCTIONAL GENOMICS AND PROTEOMICS

ABSTRACT: 153

POSTER SESSION I

Long noncoding RNA MEG3-4 tissue specifically regulates IL-1 β during pulmonary bacterial infection by repressing microRNA-138

Min Wu and Rongpeng Li. Department of Biomedical Sciences, School of Medicine and Human Health, University of North Dakota, USA

ABSTRACT: 154

POSTER SESSION II

Travel Award Winner

USP18 is required for HIV-1 infection in a human iPSC-derived macrophage infection model

Jared P. Taylor, Daniel L. Aldridge, Melanie N. Cash, Katherine E. Santostefano, Lucas H. Armitage, Nao Terada and Mark A. Wallet. University of Florida; Department of Pathology, Immunology & Laboratory Medicine and HHMI Science for Life

ABSTRACT: 155

POSTER SESSION I

Signaling pathways in neutrophils are regulated by surgical trauma - a proteomics study.

Samina Arshid, Muhammad Tahir, Belchor Fontes, Edna F.S. Montero, Mariana S. Castro, Simone Sidoli, Peter Roepstorff and Wagner Fontes. Laboratory of Biochemistry and Protein Chemistry, Department of Cell Biology, Institute of Biology, University of Brasilia, Brasilia-DF, Brazil.; Department of Biochemistry and Molecular Biology, University of Southern Denmark, 5230 Odense M, Denmark.; Laboratory of Surgical Physiopathology (LIM-62), Faculty of Medicine, University of São Paulo, Brazil. and Epigenetics Program, Department of Biochemistry and Biophysics, Perelman School of Medicine, University of Pennsylvania, Philadelphia, PA 19104, USA

ABSTRACT: 156

POSTER SESSION II

Early tyrosine phosphorylation and comparative proteomics provide new insights into adenosine A2A receptor activities in human neutrophils

Marc Pouliot, Miriam S. Giambelluca, Florence Roux-Dalvai, Frédéric Fournier, Arnaud Droit and Benjamin Nehmé. Université Laval

ABSTRACT: 157

POSTER SESSION I

Travel Award Winner

Identifying novel immune modulating factors in a genome-wide *S. aureus* screen in human neutrophils

Dingyi Yang, John Connolly, Simon Foster and Lynne Prince. Department of Infection, Immunity & Cardiovascular Disease, Medical school, the University of Sheffield, Sheffield, UK; and Department of Molecular Biology and Biotechnology, the University of Sheffield, Sheffield, UK

ABSTRACT: 158

POSTER SESSION II

Genome-wide localization of PU.1 and H3K4me1 in human neutrophils and monocytes

Francisco MA Bianchetto-Aguilera, Nicola Tamassia, Maili Zimmermann, Gioacchino Natoli and Marco A. Cassatella. Department of Medicine, University of Verona and Department of Experimental Oncology, European Institute of Oncology (IEO)

ABSTRACT: 159

POSTER SESSION I

Analysis of NCF1 in Patients with p47phox Deficient Chronic Granulomatous Disease and Normal Subjects by Droplet Digital PCR

Douglas B. Kuhns, Xiaolin Wu, Amy P. Hsu, David Sun, Paul Griffith, Steven M. Holland, Harry L. Malech and John I. Gallin. Neutrophil Monitoring Laboratory, Applied/Development Research Directorate, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, MD; Genomics Laboratory, Cancer Research Technology Program, Leidos Biomedical Research, Inc., Frederick National Laboratory for Cancer Research, Frederick, MD; 3Laboratory of Clinical Infections, NIAID, NIH, Bethesda, MD and 4Laboratory of Host Defenses, NIAID, NIH, Bethesda, MD

NEUTROPHIL DIFFERENTIATION AND NEUTROPHIL-MEDIATED INFLAMMATION RESOLUTION

ABSTRACT: 160

POSTER SESSION II

SLB Presidential Student Finalist

Neutrophil and Monocyte survival in vivo and in vitro depends on an additive cytoprotective shield by Serpinb1a and Serpinb6a against granule proteases

Sabrina Sofia Burgener, Melanie Brügger, Phillip Ian Bird and Charaf Benarafa. Theodor Kocher Institute, University of Bern, Bern, Switzerland; Graduate School for Cellular and Biomedical Science, University of Bern, Bern, Switzerland and Department of Biochemistry & Molecular Biology, Monash University, Clayton, Australia

ABSTRACT: 161

POSTER SESSION I

Neutrophil differentiation and functions after modulation of DDR pathway

Oleg N. Demidov, Anastasia R. Goloudina, Bogdan Grigorash, Burhan Uyanik, Frédéric LIRUSSI and Ettore Appella. Institute of Cytology, RAS; Inserm U866; University of Burgundy and NCI, NIH

ABSTRACT: 162

POSTER SESSION II

Inflammation-resolving lipid mediator, resolvin D2, promotes revascularization and tissue regeneration during limb ischemia.

Matthew Spite. Harvard Medical School and Brigham and Women's Hospital, Boston, MA

POSTER SESSIONS

ABSTRACT: 163

POSTER SESSION I

Travel Award Winner

Protein kinase inhibitor compound screen reveals ErbB family kinases as drivers of neutrophil apoptosis in the context of inflammatory diseases

Atiqur Rahman, Katherine Henry, David Sammut, A. A. Roger Thompson, Bill Zuercher, Moira Whyte, David Dockrell, Stephen Renshaw and Lynne Prince. Department of Infection, Immunity and Cardiovascular Disease, University of Sheffield, Sheffield, UK; Bateson Centre, University of Sheffield, UK; SGC-UNC, Division of Chemical Biology and Medicinal Chemistry, UNC Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, USA and MRC centre for Inflammation Research, University of Edinburgh, UK

ABSTRACT: 164

POSTER SESSION II

Atypical Molecular Pattern Exposed By Peripheral Blood Neutrophils Treated With Sphingolipid Analog Drug Fty720

Joanna Skrzeczynska-Moncznik, Malgorzata Bzowska and Krzysztof Guzik. Department of Immunology, Faculty of Biochemistry, Biophysics and Biotechnology, Jagiellonian University, Cracow, Poland

ABSTRACT: 165

POSTER SESSION I

The dual role of the endogenous homeostatic factor Del-1 in the modulation of acute self-limited inflammation

Ioannis Kourtzelis, Ioannis Mitroulis, Janusz von Renesse, Daniel Grosser, Christian Doreth, Lan-Sun Chen, Anaisa Ferreira, Kavita Hosur, Pallavi Subramanian, Ünal Coskun, George Hajishengallis and Triantafyllos Chavakis. Technische Universität Dresden, Department of Clinical Pathobiochemistry and Institute for Clinical Chemistry and Laboratory Medicine, 01307 Dresden, Germany; Laboratory of Membrane Biochemistry, Paul Langerhans Institute Dresden, Faculty of Medicine Carl Gustav Carus at the TU Dresden, 01307 Dresden, Germany and University of Pennsylvania, Penn Dental Medicine, Department of Microbiology, Philadelphia, PA 19104 USA

ABSTRACT: 166

POSTER SESSION II

Flavonoids can mediated inflammation resolution through inhibition of human neutrophils' oxidative burst and leukotriene B4 production

Daniela Ribeiro, Sara M. Tomé, Carina Proença, Artur M.S. Silva, Marisa Freitas and Eduarda Fernandes. UCIBIO, REQUIMTE, Laboratório de Química Aplicada, Departamento de Ciências Químicas, Faculdade de Farmácia, Universidade do Porto, Portugal and Departamento de Química & QOPNA, Universidade de Aveiro, Aveiro, Portugal

ABSTRACT: 167

POSTER SESSION I

Coagulation induced by C3aR-dependent NETosis drives protumorigenic neutrophils during small intestinal tumorigenesis

Carsten Krieg, Silvia Guglietta, Elena Zagato, Lu Bao, Simona Gandini, Paola S. Ravenda, Giuseppe Penna and Maria Rescigno. European Institute of Oncology, Department of Experimental Oncology; University Zurich, Institute of Experimental Immunology; Childrens' Hospital, Harvard Medical School; Division of Epidemiology and Biostatistics, European Institute of Oncology; Gastrointestinal and Neuroendocrine Tumor Unit, European Institute of Oncology and Department of Oncology and Haemato-Oncology

ABSTRACT: 168

POSTER SESSION II

Myeloperoxidase in the regulation of polymorphonuclear neutrophil cell death

Lukas Kubala, Silvie Kremserova, Tomas Perecko, Anna Kocurkova and Anna Klinke. Institute of Biophysics, Academy of Sciences of the Czech Republic, Czech Republic; International Clinical Research Center - CBCE, St. Anne's University Hospital Brno, Czech Republic; Faculty of Science, Masaryk University, Czech Republic; Institute of Experimental Pharmacology and Toxicology, Slovak Academy of Sciences, Slovak Republic and Heart Center, University of Cologne, Germany

ABSTRACT: 169

POSTER SESSION I

Travel Award Winner

Mice expressing human Proteinase 3 show sustained neutrophil infiltration and a defect in the resolution of inflammation

Katherine R. Martin, Magali Pederzoli-Ribeil, Emeline Lebourdais, Adam Dahdah, Celine Candalh, Sabrina Burgener, Charaf Benarafa, Pierre Launay and Veronique Witko-Sarsat. INSERM U1016; CNRS-UMR 8104; Université Paris Descartes; Labex Inflamex; INSERM U1149; Université Paris Diderot; Theodor Kocher Institute and Graduate School for Cellular and Biomedical Sciences

ABSTRACT: 170

POSTER SESSION II

Travel Award Winner

Polarization of innate neutrophils due to Tollip deficiency modulates colonic tumorigenesis

Christina Lee. Virginia Polytechnic Institute and State University

EFFECTOR FUNCTIONS OF LEUKOCYTES

ABSTRACT: 171

POSTER SESSION I

Cystic Fibrosis is a new type of leukocyte adhesion deficiency disease

Alessio Montresor, Claudio Sorio, Matteo Bolomini-Vittori, Sara Caldrea, Barbara Rossi, Silvia Dusi, Stefano Angiari, Jan E. Johansson, Marzia Vezzalini, Teresinha Leal, Elisa Calcaterra, Baroukh M. Assail, Paola Melotti and Carlo Laudanna. University of Verona, Department of Medicine; Radboud University Medical Center Geert Grooteplein; Université Catholique de Louvain and Cystic Fibrosis Center, Azienda Ospedaliera Universitaria Integrata di Verona

ABSTRACT: 172

POSTER SESSION II

Human blood monocytes are able to form extracellular traps

Luc de Chaisemartin, Vanessa Granger, Benoit Noel, Yann Gallais, Natacha Szely, Marc Pallardy and Sylvie Chollet-Martin. UMR996 - Inflammation, Chemokines and Immunopathology -, INSERM, Univ Paris-Sud, Université Paris-Saclay, 92296, Châtenay-Malabry, France and APHP, Bichat Hospital, Immunology Department, Paris, France

ABSTRACT: 173

POSTER SESSION I

Travel Award Winner

Arthritogenic citrullinated peptides present in neutrophil extracellular traps are internalized by synovial fibroblasts through a RAGE-TLR9 axis and activate adaptive immunity in rheumatoid arthritis

Carmelo Carmona-Rivera, Erica Moore, Nithya Lingampalli, Hannes Uchtenhagen, Eddie James, Kevin L. Bicker, Heidi Wahamoa, Victoria Hoffmann, Anca I. Catrina, Paul R. Thompson, Jane H. Buckner, William H. Robinson, David A. Fox and Mariana J. Kaplan. Systemic Autoimmunity Branch, National Institute of Arthritis and Musculoskeletal and Skin Diseases, National Institutes of Health, Bethesda, MD 20892, USA; VA Palo Alto Health Care System, Palo Alto, CA 94304, USA and the Division of Immunology and Rheumatology, Stanford University School of Medicine, Stanford, CA 94305, USA; Benaroya Research Institute at Virginia Mason, The University of Washington School of Medicine, Seattle, WA 98101, USA; Department of Chemistry, Middle Tennessee State University, 1301 E. Main St., Murfreesboro, TN 37132, USA; Department of Medicine, Solna, Karolinska University Hospital, Stockholm S17176, Sweden; Division of Veterinary Resources, Office of the Director, National Institutes of Health, Bethesda, MD 20892, USA; Department of Biochemistry and Molecular Pharmacology, University of Massachusetts Medical School, Worcester, MA 01605, USA and Division of Rheumatology, Department of Internal Medicine, University of Michigan, Ann Arbor, MI 48109, USA

ABSTRACT: 174

POSTER SESSION II

Travel Award Winner

PI3K Activity in the Tumor Microenvironment Promotes Mammary Tumor Growth and Metastasis and Inhibits Anti-tumor Immunity

Philip Owens, Jiqing Sai, Sergey Novitskiy, Anna E. Vilgelm, Jinming Yang, Tammy Sobolik, Nicole Lavender, Andrew C. Johnson, Colt McClain, Gregory D. Ayers, Mark C. Kelley, Melinda Sanders, Harold L. Moses, Mark Boothby and Ann Richmond. Vanderbilt University and Tennessee Valley Healthcare System, Department of Veteran Affairs, Nashville, TN

ABSTRACT: 175

POSTER SESSION I

IFN- γ and IL-17A establish the balance between *P. aeruginosa* clearance and inflammatory potential during infection of human macrophage-neutrophil co-cultures

Sirina Muntaka, Miguel Cámara and Luisa Martínez-Pomares. University of Nottingham

ABSTRACT: 176

POSTER SESSION II

Advances on the biology of 6-sulfo LacNAc (sLan)/M-DC8+ cells

Alessandra Micheletti, Federica Calzetti, Giulia Finotti, Silvia Lonardi, William Vermi and Marco A. Cassatella. Section of General Pathology, Department of Medicine, University of Verona, Verona and Section of Pathology, Department of Molecular and Translational Medicine, University of Brescia, Brescia

NEUTROPHILS IN DISEASES

ABSTRACT: 177

POSTER SESSION I

IFN α enhances the production of IL-6 by human neutrophils activated via TLR8

Nicola Tamassia, Maili Zimmermann, Fabio Arruda-Silva, Francisco MA Bianchetto-Aguilera, Claudio Lunardi and Marco A. Cassatella. Department of Medicine, Section of General Pathology, University of Verona and Department of Medicine, Section of Internal Medicine, University of Verona

ABSTRACT: 178

POSTER SESSION II

Travel Award Winner

Emperipolesis is a novel cell-in-cell phenomenon that mediates transfer of neutrophil membrane to megakaryocytes and platelets

Pierre Cunin, Eric Boilard, Pui Y. Lee, Allyn Morris, Joseph E. Italiano and Peter A. Nigrovic. Department of Medicine, Division of Rheumatology, Immunology and Allergy, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA.; Centre de Recherche du Centre Hospitalier Universitaire de Québec (CHUL), Faculté de Médecine de l'Université Laval, Québec, QC, Canada.; Department of Medicine, Division of Immunology, Boston Children's Hospital, Harvard Medical School, Boston, MA, USA. and Department of Medicine, Hematology Division, Brigham and Women's Hospital, Harvard Medical School, Boston, MA, USA.

POSTER SESSIONS

ABSTRACT: 179

POSTER SESSION I

Type I interferon-mediated polarization of tumor-associated neutrophils depends on CSF3R signaling pathway

Jadwiga Jablonska, Mozhgan D. Harati, Ekaterina Pylaeva, Sven Brandau, Karl Welte, Julia Skokowa and Stephan Lang. University Hospital Essen and University Hospital Tuebingen

ABSTRACT: 180

POSTER SESSION II

Tumor Associated Neutrophils (TAN) Impair Cytotoxic T-cells Anti-tumor Effect by Inducing CD8+ Cells Apoptosis and Inhibiting Proliferation.

Merav E. Shaul, Janna Michaeli, Inbal Mishalian and Zvi G. Fridlender. Institute of Pulmonary Medicine, Hadassah-Hebrew University Medical Center

ABSTRACT: 181

POSTER SESSION I

Travel Award Winner

Differential mobilization of circulating neutrophil subpopulations in breast cancer metastasis

Brian E. Hsu, Sébastien Tabariès, Matthew G. Annis, Claudia U. Duerr, Jörg H. Fritz and Peter M. Siegel. Goodman Cancer Research Centre, McGill University; Department of Medicine, McGill University; Department of Biochemistry, McGill University; Department of Microbiology and Immunology, Complex Traits Group, McGill University and Department of Physiology, Complex Traits Group, McGill University

ABSTRACT: 182

POSTER SESSION II

Characterization of neutrophil sub-populations in steady state and during cancer inflammation using high dimensional data analysis

Carsten Krieg, Silvia Guglietta, Sven Brandau and Burkhard Becher. University Zurich, Institute of Experimental Immunology; European Institute of Oncology, Department of Experimental Oncology and University Hospital Essen, Department of Otorhinolaryngology

LEUKOCYTES IN HOST-PATHOGEN INTERACTIONS

ABSTRACT: 183

POSTER SESSION I

SLB Presidential Student Finalist

Elucidating the mechanism of neutrophil apoptosis inhibition by *Francisella tularensis*

Lauren C. Kinkead, Justin T. Schwartz, Brandi B. Ketelsen, Laura C. Whitmore and Lee-Ann H. Allen. University of Iowa and VA Medical Center

ABSTRACT: 184

POSTER SESSION II

Graphene Oxide (GO) Triggers Neutrophil Extracellular Trap (NET) Formation in Human Neutrophils in a Size-Dependent Manner

Beatrice Lazzaretto, Sourav P. Mukherjee, Kunal Bhattacharya, Matthew Fielden, Birgit Brandner, Kjell Hultenby, Neus Lozano, Kostas Kostarelos and Bengt Fadeel. Nanosafety & Nanomedicine Laboratory, Division of Molecular Toxicology, Institute of Environmental Medicine, Karolinska Institutet, Stockholm, Sweden; Department of Applied Physics, Royal Institute of Technology, Stockholm, Sweden; SP Technical Research Institute of Sweden, Stockholm, Sweden; Department of Laboratory Medicine, Karolinska Institutet, Stockholm, Sweden and Nanomedicine Laboratory, School of Medicine & National Graphene Institute, University of Manchester, Manchester, United Kingdom

ABSTRACT: 185

POSTER SESSION I

Neisseria gonorrhoeae co-opts complement receptor 3 (CR3) for silent entry into human neutrophils

Asya Smirnov, Kylene P. Daily, Morgan B. Johnson, Joshua C. Eby, Victor J. Torres and Alison K. Criss. Department of Immunology, and Cancer Biology, University of Virginia, USA; Division of Infectious Diseases and International Health, Department of Medicine, University of Virginia, USA and Department of Microbiology, NYU, USA

ABSTRACT: 186

POSTER SESSION II

Epithelial cells directly contribute to attraction and activation of neutrophils during infection with the intracellular bacterium *Chlamydia trachomatis*

Susanne Kirschnek, Saskia Lehr, Juliane Vier, Stephanie Dille and Georg Häcker. Institute of Medical Microbiology and Hygiene, Medical Centre, University of Freiburg, Germany

ABSTRACT: 187

POSTER SESSION I

Release of neutrophil extracellular traps (NETs) and production of reactive oxygen species (ROS) in response to *Acinetobacter baumannii* isolated from septic patients.

Olga Ciepiela, Sandra Sieczkowska, Weronika Bystrzycka, Joanna Rogulska, Aneta Moskalik, Katarzyna Lewandowska, Aneta Manda-Handzlik and Urszula Demkow. Department of Laboratory Diagnostics and Clinical Immunology of Developmental Age, Medical University of Warsaw; Students' Scientific Group at Department of Laboratory Diagnostics and Clinical Immunology of Developmental Age, Medical University of Warsaw and Postgraduate School of Molecular Medicine, Medical University of Warsaw

ABSTRACT: 188

POSTER SESSION II

The role of neutrophils in mice during chlamydia infection

Tom Zortel, Juliane Vier, Georg Häcker, Susanne Kirschnek, Institute for Medical Microbiology and Hygiene, University Medical Center, Hermann-Herder-Straße 11, 79104 Freiburg i. Br

POSTER SESSIONS

ABSTRACT: 189

POSTER SESSION I

Cytotoxic PSMA peptides from *S. aureus* induce rapid cytotoxicity and NET formation

Halla Björnsdóttir, Agnes Dahlstrand Rudin, Karin Christenson, Huamei Forsman, Marios Stylianou, Constantin Urban, Claes Dahlgren, Anna Karlsson and Johan Bylund. Department of Oral Microbiology and Immunology, University of Gothenburg, Sweden; The Phagocyte Research Laboratory, Department of Rheumatology & Inflammation Research, University of Gothenburg, Sweden and Antifungal Immunity Group, Laboratory for Molecular Infection Medicine Sweden (MIMS) Department of Clinical Microbiology, Umeå University, Sweden

ABSTRACT: 190

POSTER SESSION II

Genetic susceptibility to hypersensitivity pneumonitis

Tae-Won Yoon, Ae-Kyung Yi, Robert W. Williams and Elizabeth A. Fitzpatrick. Dept. of Micro. Immun. & Biochem., University of Tennessee Health Science Center and Dept. of Genetics, Genomics and Informatics, University of Tennessee Health Science Center

LEUKOCYTES IN THE TUMOR MICROENVIRONMENT

ABSTRACT: 191

POSTER SESSION I

Neutrophil plasticity in thyroid cancer

Maria R. Galdiero, Francesco Borriello, Stefania Loffredo, Gilda Varricchi, Raffaella Iannone, Tiziana Lansione And Gianni Marone. Department of Translational Medical Sciences (DiSMET) and Center for Basic and Clinical Immunology Research (CISI), University of Naples Federico II, Naples, Italy and Institute of Experimental Endocrinology and Oncology "Gaetano Salvatore" (IEOS), National Research Council (CNR), Naples, Italy

ABSTRACT: 192

POSTER SESSION II

Octa-branched peptide (MAP) vaccination against EMMPRIN/CD147 inhibits tumor growth and metastasis by immune modulating the microenvironment

Michal A. Rahat, Elina Simanovich, Maya M. Rahat, Ella Drazdov, Miriam Walter and Vera Brod. Immunotherapy lab, Carmel Medical Center and Ruth and Bruce Rappaport Faculty of Medicine, Technion



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LATE BREAKING POSTER SESSIONS

ABSTRACT: LBo1

POSTER SESSION I

The role of Scavenger Receptor A (CD204) in apoptosis of septic neutrophils

Tammy Ozment, Nikolas Hopkins and David Williams;. Department of Surgery, Quillen College of Medicine, East Tennessee State University

ABSTRACT: LBo2

POSTER SESSION II

Source and mechanisms of recruitment of a new subset of neutrophils, the pro-angiogenic neutrophils

Cédric Seignez, Evelina Vågesjö and Mia Phillipson;. University of Uppsala

ABSTRACT: LBo3

POSTER SESSION I

Distinct modulating effect and receptor preference on the formyl peptide receptors expressed in mouse neutrophils for ligands with known specificities for the receptors expressed in human cells

Malene Winther, Michael Gabl, Johan Bylund, Ji Ming Wang, Claes Dahlgren and Huamei Forsman;. The Phagocyte Research Laboratory, University of Gothenburg and Cancer and Inflammation Program, Frederick National Laboratory for Cancer Research

ABSTRACT: LBo4

POSTER SESSION

Immune Cell Response to Bacterial Infection

Shayda R. Maleki-Toyserkani, Christopher P. Thomas, Emma J. Kidd and Les Baillie;. Cardiff University

ABSTRACT: LBo5

POSTER SESSION I

A Mouse Model of Neonatal Staphylococcus epidermidis Infection

Jacqueline CY Lai, Pernilla Svedin, Duc Ninh Nguyen, Per T. Sangild, Tobias Strunk, Andrew Currie, Ofer Levy, Xiaoyang Wang and Carina Mallard;. Perinatal Medicine Center, Department of Physiology, University of Gothenburg, Gothenburg, Sweden; Section of Comparative Pediatrics and Nutrition, University of Copenhagen, Denmark; Department of Pediatrics and Adolescent Medicine, Rigshospitalet, Copenhagen, Denmark; Centre for Neonatal Research and Education, The University of Western Australia, Perth, Australia; Neonatal Clinical Care Unit, King Edward Memorial Hospital, Subiaco, Australia; School of Veterinary & Life Sciences, Murdoch University, Murdoch, Australia and Department of Medicine, Division of Infectious Diseases, Boston Children's Hospital, Harvard Medical School, Boston, USA

ABSTRACT: LBo6

POSTER SESSION II

Immune Complex Induced Apoptosis is Controlled by Non-canonical PI3K - Cdc42 - Pak - Erk Signaling Promotes in Human but not Mouse Neutrophils

Julia Chu, Sonja Vermeren, Ian Dransfield and Adriano G. Rossi;. The University of Edinburgh

ABSTRACT: LBo7

POSTER SESSION I

Neutrophil Extracellular Trap formation among neutrophil subpopulations.

Carmen Herrera-Hidalgo, Cedric Seignez, Gustaf Christoffersson, Håkan Wallén, Charlotte Thålin, Laszlo Szekely and Mia Phillipson;. Department of Medical Cell Biology, Uppsala University, Uppsala, Sweden.; La Jolla Institute for Allergy and Immunology, La Jolla, CA. and Department of Clinical Sciences, Danderyd Hospital, Stockholm, Sweden

ABSTRACT: LBo8

POSTER SESSION II

Neutrophil chromatin undergoes dramatic stimulation-specific topological changes during extracellular trap formation

Matthew Denholtz, Yina Zhu, Simon Dohrmann, Takeshi Isoda, Victor Nizet and Corenliis Murre;. University of California, San Diego

ABSTRACT: LBo9

POSTER SESSION I

Role of the atypical chemokine receptor CCRL2 in intestinal inflammation

Tiziana Schioppa, Annalisa Del Prete, Francesca Sozio, Stefania Vetrano and Silvano Sozzani;. University of Brescia, Dept of Molecular and Translational Medicine, Italy and Humanitas Clinical and Research Center, Rozzano, Italy

ABSTRACT: LBo10

POSTER SESSION II

Gene expression of neurotransmitter receptors and immune-related proteins in the nucleus accumbens during endotoxin tolerance

Sulie L. Chang, Wenfei Huang and Andrew M. Dieterich;. Institute of NeuroImmune Pharmacology and Department of Biological Sciences, Seton Hall University

ABSTRACT: LBo11

POSTER SESSION I

Neutrophils are recruited to the lung in a CCR1 and complement C5 dependent manner independent from complement C3 and type I IFN receptor during infection with Modified Vaccinia virus Ankara

Philip J.R. Price, Lino E. Torres-Dominguez, Christine Brandmuller, Bruno Luckow, Zoltan Banki, Heribert Stoiber, Admar Verschoor, Carsten J. Kirschning, Gerd Sutter and Michael H. Lehmann;. Institute for Infectious Diseases and Zoonoses, Ludwig-Maximilians-Universität München, Munich, Germany; Klinikum der Universität München, Medizinische Klinik und Poliklinik IV, Arbeitsgruppe Klinische Biochemie, Munich, Germany; Division of Virology, Medical University of Innsbruck, Innsbruck, Austria; Institute for Medical Microbiology, Immunology and Hygiene, Technische Universität München, Munich, Germany and Institute of Medical Microbiology, University of Duisburg-Essen, Essen, Germany

LATE BREAKING POSTER SESSIONS

ABSTRACT: LB12

POSTER SESSION II

Monocytic MKP-1 is a Sensor of the Metabolic Environment and Regulates the Functional and Phenotypic Fate of Monocyte-Derived Macrophages in Atherosclerosis

Hong Seok Kim, Sina Tavakoli, Leigh Ann Piefer, Huynh Nga Nguyen and Reto Asmis;. Department of Molecular Medicine, College of Medicine, Inha University, Incheon 22212, Republic of Korea; Hypoxia-related Disease Research Center, College of Medicine, Inha University, Incheon 22212, Republic of Korea; Department of Radiology, University of Texas Health Science Center at San Antonio; Department of Clinical Laboratory Sciences, University of Texas Health Science Center at San Antonio and Department of Biochemistry, University of Texas Health Science Center at San Antonio

ABSTRACT: LB13

POSTER SESSION I

QUANTIM- Quantification of Innate Immune Function in Whole Blood Infection Assays

Ines Leonhardt, Kerstin Hünig, Daniel Thomas-Rüddel, Teresa Lehnert, Marc-Thilo Figge and Oliver Kurai;. Septomics Research Center, Friedrich Schiller University Jena, Jena; Leibniz Institute for Natural Product Research and Infection Biology, Hans-Knöll-Institute, Jena and Jena University Hospital, Department of Anesthesiology and Intensive Care Medicine

ABSTRACT: LB14

POSTER SESSION II

Recycling and scavenging properties of CCRL2

Chiara Mazzotti, Annalisa Del Prete, Luisa Gazzarelli, Marcus Thelen, Daniela Bosisio and Silvano Sozzani;. Dept of Molecular and Translational Medicine, University of Brescia; Humanitas Clinical and Research Center and Institute for Research in Biomedicine, Bellinzona

ABSTRACT: LB15

POSTER SESSION I

Leukaemia-associated mutations of C/EBP α inhibit neutrophil differentiation

Isabel Mölter, Ian Gentle and Georg Häcker;. Universitätsklinikum Freiburg

ABSTRACT: LB16

POSTER SESSION II

Platelets enhance antifungal activity of human neutrophils during *Candida* infection

Kerstin Hünig, Diana Nessel and Oliver Kurai;. Septomics Research Center, Friedrich Schiller University Jena, Jena and Leibniz Institute for Natural Product Research and Infection Biology, Hans-Knöll-Institute, Jena

ABSTRACT: LB17

POSTER SESSION I

Swimming motility mediates NET formation stimulated by flagellated bacteria

Balazs Rada, Madison Floyd, Matthew Winn, Payel Sil, Benoit Chassaing, Linda L. McCarter, Andrew T. Gewirtz and Joanna B. Goldberg;. University of Georgia, Department of Infectious Diseases; Georgia State University, Institute for Biomedical Sciences; The University of Iowa, Department of Microbiology and Emory University School of Medicine

ABSTRACT: LB18

POSTER SESSION II

Simultaneous dual proteome analysis towards understanding neutrophil interaction with *Aspergillus fumigatus*

Iordana A. Shopova, Thomas Krüger, Olaf Kniemeyer and Axel A. Brakhage;. 1Leibniz Institute for Natural Product and Infection Biology (Hans Knöll Institute) and Friedrich Schiller University, Jena

ABSTRACT: LB19

POSTER SESSION I

Endogenously produced TNF α contributes to the expression of CXCL10 in IFN γ -activated plasmacytoid dendritic cells

Giulia Finotti, Nicola Tamassia, Federica Calzetti and Marco A. Cassatella;. University of Verona

ABSTRACT: LB20

POSTER SESSION II

The deactivator effect elicited by *Paracoccidioides brasiliensis* in neutrophils can be reversed with low level laser therapy applied "in vivo"

Eva Burger, Ana Cristina L. Pereira, Julianne C. Grisolia, Giulia Maria C. Bani, Felipe F. Sperandio, Liana Maria C. Verinaud, Zoilo P. Camargo and Ana Carolina S.C. Mendes;. Federal University of Alenas (UNIFAL-MG), Alenas, MG, Brazil ; State University of Campinas (UNICAMP), Campinas, SP, Brazil and Federal University of São Paulo (UNIFESP), São Paulo, SP, Brazil

ABSTRACT: LB21

POSTER SESSION I

Neutrophils are protective in cancerogenesis by altering tumor microenvironment and controlling intestinal microbiota

Andrea Ponzetta, Marialuisa Barbagallo, Maria Rosaria Galdiero, Martina Molgora, Eduardo Bonavita, Elena Magrini, Nadia Polentarutti, Marina Sironi, Fabio Pasqualini, Cecilia Garlanda, Alberto Mantovani and Sebastien Jaillon;. Humanitas Clinical and Research Center and Humanitas University

ABSTRACT: LB22

POSTER SESSION II

The Differential Metabolic Responses of Non-Reprogrammed vs Reprogrammed Human Neutrophils involved in chronic inflammation

Martin Pelletier, Asmaa Lachhab, Maude Leclerc, Flavia Ribeiro de Vargas, Isabelle Allaeys and Patrice E. Poubelle;. CRCHU de Québec-Université Laval

ABSTRACT: LB23

POSTER SESSION I

An investigation into the pathways involved in neutrophil extracellular trap induction

Elaine F. Kenny, Volker Brinkmann and Arturo Zychlinsky;. Max Planck Institute for Infection Biology



LATE BREAKING POSTER SESSIONS

ABSTRACT: LB24

POSTER SESSION II

Dynamics of ezrin location at the plasma membrane: relevance to neutrophil spreading

Rhiannon E. Roberts, Tim Vervliet, Geert Bultynck, Jean-Baptiste Parys and Maurice B. Hallett;. Cardiff University and KU Leuven

ABSTRACT: LB25

POSTER SESSION I

Deciphering the recognition process of the human pathogenic fungus *Aspergillus fumigatus* by the immune system with live-cell imaging and analysis of fungal mutant strains

Hanno Schoeler, Juliane Macheleidt, Vera Pähitz, Kaswara Kraibooj, Naim Al-Zaben, Thorsten Heinekamp, Marc Thilo Figge and Axel Brakhage;. Leibniz-Institute for Natural Product Research and Infection Biology - Hans-Knöll-Institute

ABSTRACT: LB26

POSTER SESSION II

Effect Of Administration Of Anti-Inflammatory Drug Celecoxib Simultaneously With Low Power Laser Therapy In Murine Neutrophils

Eva Burger, Ana Carolina S.C. Mendes, Julianne C. Grisolia, Giulia Maria A.C. Bani, Felipe F. Sperandio, Zoilo P. Camargo, Liana Maria C. Verinaud and Ana Cristina L. Pereira;. Federal University of Alfenas (UNIFAL-MG), Alfenas, MG, Brazil; Federal University of São Paulo (UNIFESP), São Paulo, SP, Brazil and State University of Campinas (UNICAMP), Campinas, SP, Brazil

ABSTRACT: LB27

POSTER SESSION I

The effects of high-dose statins on neutrophil functions in healthy elders and during respiratory infections and sepsis; in vitro studies and a randomised, placebo controlled cross-over clinical trial.

Adam JA McGuinness, Hannah L. Greenwood, Jaimin Patel, Georgia M. Walton, Charendeep Sadhra, Dhruv Parekh, Rachel CA Dancer, Peter Nightingale, Janet M. Lord, David R. Thickett and Elizabeth Sapey;. Institute of Inflammation and Aging, University of Birmingham

ABSTRACT: LB28

POSTER SESSION II

Secretion of the phosphorylated form of the alarmin S100A9 from neutrophils is essential for the pro-inflammatory functions of extracellular S100A8/A9

Véronique Schenten, Fabrice Tolle, Sabrina Bréchar, Sébastien Plançon and Eric J. Tschirhart;. University of Luxembourg, Life Sciences Research Unit- Calcium Signalling and Inflammation Laboratory

ABSTRACT: LB29

POSTER SESSION I

Occurrence and significance of tumor-associated neutrophils in patients with colorectal cancer

Maria Rosaria Galdiero, Paolo Bianchi, Fabio Grizzi, Giuseppe Di Caro, Gianluca Basso, Andrea Ponzetta, Eduardo Bonavita, Marialuisa Barbagallo, Silvia Tartari, Nadia Polentarutti, Alberto Malesci, Gianni Marone, Massimo Roncalli, Lu. Humanitas Clinical and Research Center, via Manzoni 56, 20089 Rozzano (Mi), Italy; Department of Translational Medical Sciences and Center for Basic and Clinical Immunology Research (CISI), University of Naples Federico II, via Pansini 5, Naples, Italy; Department of Biotechnologies and Translational Medicine, University of Milan, via Manzoni 56, 20089 Rozzano (Mi), Italy and Department of Biomedical Sciences, Humanitas University, Via Manzoni 113, 20089 Rozzano - Milan, Italy

ABSTRACT: LB30

POSTER SESSION II

Neutrophil infiltration enhances the favorable prognostic significance of CD8+ T cell infiltration in colorectal cancer

Valeria Governa, Valentina Mele, Luigi Tornillo, Luigi Terracciano, Giandomenica Iezzi and Giulio C. Spagnoli;. Department of Biomedicine, Basel University Hospital and University of Basel, Basel, CH; and 2Molecular Pathology Division, Institute of Pathology, Basel University Hospital

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**Society for
Leukocyte
Biology**

50th Annual Meeting

October 5-7, 2017

The Westin Bayfront
Vancouver, BC Canada



LEUKOCYTE MEMORY: HEALTH AND DISEASE

SAVE THE DATE!

PROGRAM CHAIRS

Lionel Ivashkiv, Hospital for Special Surgery
Liwu Li, Virginia Tech

PLENARY TOPICS

Memory of Tissue Location and Micro-environment
Epigenetic Mechanisms of Memory in Innate Immune Cell Activation
Epigenetic Memory in Lymphocytes
Leukocyte Memory in Chronic Disease
Leukocyte Memory in Infection and Injury

CONCURRENT TOPICS

Microbiome in leukocyte memory
Systems analyses of leukocyte memory
Leukocyte Memory and Drug Development
Systems biology of adaptive immune memory
Metabolism in leukocyte memory
Leukocyte memory in autoimmune disease
Engineering analyses of leukocyte memory
Best of Journal of Leukocyte Biology

INVITED SPEAKERS

Ido Amit
Yasmine Belkaid
Danica Chen
Mashkoor Choudhry
Hogler Eltzschig
Andrew Gewirtz
Chris Glass
Ajanda Goldrath
Daniel Irimia
Lionel Ivashkiv
Lewis Lanier
Liwu Li
Gioacchino Natoli
Mihai Netea
John O'Shea
Virginia Pascual
Gwendalyn Randolph
Ellen Rothenberg
Carla Rothlin
Matthew Sleeman
Ira Tabas

The Society For Leukocyte Biology's 49th Annual Meeting and "Neutrophil 2016"

Agenda-at-a-Glance

THURSDAY, SEPTEMBER 15TH

8:00 AM – 6:00 PM

REGISTRATION

LOCATION: Great Hall Lobby

8:00 AM – 11:30 AM

ENABLING TECHNOLOGIES FOR LEUKOCYTE RESEARCH

LOCATION: Great Hall – Salon II

Pre-Registration Requested

8:15 AM – 11:30 AM

AGING AND IMMUNOLOGY SATELLITE

LOCATION: Classroom T-1

Pre-Registration Requested

11:30 AM – 1:00 PM

POSTER FLASH TALKS

LOCATION: Great Hall – Salon I

12:00 PM – 6:00 PM

EXHIBITS OPEN

LOCATION: Great Hall Lobby

1:15 PM – 2:45 PM

SLB JUNIOR AWARD SESSION: PRESIDENTIAL JUNIOR FACULTY/POST-DOC AND STUDENT CATEGORY FINALISTS

LOCATION: Great Hall – Salon I

2:45 PM – 3:00 PM

BREAK

LOCATION: Great Hall Lobby

3:00 PM – 4:00 PM

SLB SENIOR AWARD PRESENTATIONS: G. JEANETTE THORBECKE, DOLPH ADAMS, WOMEN AND DIVERSITY PAPER OF THE YEAR

4:00 PM – 4:15 PM

BREAK

LOCATION: Great Hall Lobby

4:15 PM – 5:45 PM

CONCURRENT SESSIONS 1–2

CS 1 - Soluble Mediators and Chemokines

LOCATION: Great Hall – Salon I

CS 2 - Neutrophil Trafficking and Effector Functions

LOCATION: Great Hall – Salon II

5:45 PM – 7:00 PM

OPENING RECEPTION

LOCATION: Chiostro Santa Maria della Vittoria

7:00 PM – 8:00 PM

PLENARY SESSION I: UNIVERSITY OF VERONA WELCOME AND KEYNOTE BONAZINGA AWARD LECTURE

LOCATION: Great Hall

8:00 PM – 9:30 PM

WORKSHOP #1 SLB MTTG SESSION

LOCATION: Classroom T-1

FRIDAY, SEPTEMBER 16TH

8:00 AM – 5:30 PM

REGISTRATION AND EXHIBITS

LOCATION: Great Hall Lobby

8:30 AM – 10:00 AM

PLENARY II: THE EXPANDING WORLD OF LEUKOCYTE SUBSETS

LOCATION: Great Hall

10:00 AM – 10:15 AM

BREAK

LOCATION: Great Hall Lobby

10:15 AM – 10:30 AM

SLB SOCIETY BUSINESS MEETING & PRESIDENTIAL AWARD ANNOUNCEMENT

LOCATION: Great Hall

10:30 AM – 12:00 PM

PLENARY III: METABOLISM AND SIGNALING IN IMMUNITY

LOCATION: Great Hall

12:00 PM – 2:00 PM

POSTER SESSION I

LOCATION: Chiostro San Francesco

2:00 PM – 3:30 PM

CONCURRENT SESSIONS 3–4

CS 3 - Cytokines in Inflammation and Immunity

LOCATION: Great Hall – Salon I

CS 4 - Emerging Topics and Methodologies in Neutrophil Biology

LOCATION: Great Hall – Salon II

3:30 PM – 3:45 PM

BREAK

LOCATION: Great Hall Lobby

3:45 PM – 5:15 PM

CONCURRENT SESSIONS 5–6

CS 5 - Check-points of Leukocyte Responses

LOCATION: Great Hall – Salon I

CS 6 - Neutrophils in Immunity

LOCATION: Great Hall – Salon II

5:30 PM – 7:00 PM

WORKSHOP #2: SLB WOMEN AND DIVERSITY SESSION: CULTURAL DIFFERENCES IN THE CAREER ADVANCEMENT EXPERIENCES

LOCATION: Classroom T-1

SATURDAY, SEPTEMBER 17TH

8:30 AM – 4:00 PM

REGISTRATION AND EXHIBITS

LOCATION: Great Hall Lobby

8:30 AM – 10:00 AM

CONCURRENT SESSIONS 7–8

CS 7 - Functional Genomics and Proteomics

LOCATION: Great Hall – Salon I

CS 8 - Neutrophil Differentiation and Neutrophil-mediated Inflammation Resolution

LOCATION: Great Hall – Salon II

10:00 AM – 10:15 AM

BREAK

LOCATION: Great Hall Lobby

10:15 AM – 11:45 AM

CONCURRENT SESSIONS 9–10

CS9 - Effector Functions of Leukocytes

LOCATION: Great Hall – Salon I

CS10 - Neutrophils in Diseases

LOCATION: Great Hall – Salon II

11:45 AM – 1:45 PM

POSTER SESSION II

LOCATION: Chiostro San Francesco

1:45 PM – 3:15 PM

PLENARY SESSION IV: LEUKOCYTES IN HOST-PATHOGEN INTERACTION

LOCATION: Great Hall

3:15 PM – 3:30 PM

BREAK

LOCATION: Great Hall Lobby

3:30 PM – 5:00 PM

PLENARY SESSION V: LEUKOCYTES IN THE TUMOR MICROENVIRONMENT

LOCATION: Great Hall

5:00 PM – 5:20 PM

NEUTROPHIL 2016 CLOSING SESSION

LOCATION: Great Hall