### Meeting Program

**41st Annual Meeting of the Society for Leukocyte Biology**

*Leukocytes: Tissue Interactions, Homeostasis, and Host Defense*

November 6-8, 2008

The Westin Tabor Center

Denver, Colorado

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<th>Wednesday, November 5</th>
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<td><strong>3:00 - 6:00 pm</strong></td>
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<td>SLB Council Meeting</td>
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<th>Thursday, November 6</th>
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<tr>
<td><strong>8:00 am - 5:00 pm</strong></td>
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<tr>
<td>Registration</td>
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<td>SLB Council Meeting</td>
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<td><strong>12:00 - 2:00 pm</strong></td>
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<td>Special Symposium: Leukocytes in Aging</td>
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<td><em>(Continental A&amp;B)</em></td>
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<td>Chairs: Rebecca Fuldner, NIA, NIH, Bethesda, MD</td>
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<td>Elizabeth J. Kovacs, Loyola Univ. Med. Ctr., Maywood, IL</td>
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<td><strong>12:00 pm</strong></td>
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<td><strong>12:45 pm</strong></td>
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<td>Aberrant neutrophil sequestration in the lungs of aged mice after burn injury is paralleled by a decrease in the neutrophil chemokine receptor, CXCR2. V. Nomellini, C.R. Gomez, E.J. Kovacs. Loyola Univ. Med. Ctr., Maywood, IL.</td>
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<td><strong>1:00 pm</strong></td>
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1:45 pm  Aging and the marginal zone. S. Birjandi, P. Witte. Loyola Univ Med Ctr., Maywood, IL.

2:30 - 3:30 pm  Presidential Student Awards  (Continental A&B)
Chair: Matthew Fenton, NIAID, NIH, Bethesda, MD

2:30 pm  Impaired efferocytosis in CGD due to altered Mφ programming is reversed by PS dependent production of IL-4 and PPARγ activation. R. Boyanapalli, C. Frasch, P. Henson, D. Bratton. Natl. Jewish Med. and Res. Ctr., Denver, CO.

2:45 pm  Cathelicidin: different sites of action to kill Staphylococcus aureus. N. Jann, S. Kristian, A. Peschel, R. Gallo, R. Landmann. Univ. Hosp. Basel, Basel, Switzerland; Univ. of California, San Diego, La Jolla, CA; Univ. of Tübingen, Tübingen, Germany.

3:00 pm  Stress-induced release of acetylcholine inhibits innate antimicrobial defense and is regulated by production of catestatin, a natural acetylcholine receptor antagonist. K.A. Radek, S.K. Mahata, L. Taupenot, D.T. O’Connor, R.L. Gallo. VA San Diego and Univ. of California, San Diego, La Jolla, CA.


4:00 - 6:00 pm  Opening Remarks and Keynote Address  (Continental A&B)
Chair: William M. Nauseef. Univ. of Iowa and VA Med. Ctr., Iowa City, IA

4:00 pm  Opening remarks

4:15 pm  Organ regulation of innate immunity. E. Raz. Univ. of California, San Diego.

5:05 pm  Surprising alarmins. J. J. Oppenheim. NIH, NCI-Frederick, Frederick, MD.

6:00 - 8:00 pm  Poster Session 1 and Presidential Reception  (Continental C)

8:00 - 10:00 pm  Student/Postdoc Mixer  (Wynkoop Brewing Company - 1634 8th St.)

Friday, November 7

8:00 am - 5:00 pm  Registration
(Conference Office C)

8:00 - 8:55 am  **Poster Workshop I: Leukocyte Homeostasis (Continental A&B)**

*Chair: Carol Miller-Graziano, Univ. of Rochester, Rochester, NY*

- **8:00 am**
  

- **8:14 am**
  
  A high level of isoform V in the CD40 receptor composition leads to survival/proliferation signals in autoimmune Th40 cells. G.M. Vaitaitis, D.H. Wagner, Jr. Univ. of Colorado Denver, Denver, CO.

- **8:28 am**
  

- **8:42 am**
  
  Nuclear factor erythroid 2 regulates neutrophil-mediated acute lung injury in rats. M.J. Rane, R. Wu, A.B. Lentsch, S. Uriarte. Univ. of Louisville, Louisville, KY; Univ. of Cincinnati, Cincinnati, OH.

9:00 - 12:00 Noon  **Plenary 1:**

**Leukocyte-Tissue Interactions (Continental A&B)**

*Chairs: Jill Suttles, Univ. of Louisville Sch. of Med., Louisville, KY  
  David W.H. Riches, Natl. Jewish Med. and Res. Ctr., Denver, CO*

- **9:00 am**
  
  Functional plasticity of macrophages: In situ re-programming of tumor-associated macrophages. R. Stout. Univ. of Louisville Sch. of Med., Louisville, KY.

- **9:35 am**
  
  Neutrophil trafficking and function in the lungs during pneumonia. C.M. Doerschuk. Univ. of North Carolina at Chapel Hill.

- **10:40 am**
  
  S1P and lymphocyte egress from lymphoid organs. J. G. Cyster. Univ. of California, San Francisco.

- **11:15 am**
  

12:00 Noon - 2:00 pm  **Workshop: Formula for Success: Connecting with your NIH Program Officer (Horace Tabor Room)**

*Presenters: Matthew Fenton and Richard Sawyer*

1:00 - 3:00 pm  **Symposium 1:**

**Leukocytes in Vascular Disease (Continental A)**

*Chairs: Martha Cathcart, Cleveland Clin. Fndn., Cleveland, OH  
  Philip Murphy, NIAID, NIH Bethesda, MD*

- **1:00 pm**
  
  Apoptosis signaling in ER-stressed macrophages: implications for

1:30 pm  Toll-like receptors in atherosclerosis. L. Curtiss. The Scripps Res. Inst., La Jolla, CA.

2:00 pm  Inflammatory signaling processes and cardiovascular complication. L. Li, D. Wang, S. Fasciano, L. Gan, U. Maitra. Virginia Tech, Blacksburg, VA.


2:30 pm  Neutrophils mediate pulmonary endothelial activation (Ang-2 release) during shock/sepsis induced ALI. J. Lomas-Neira, C-S. Chung, F. Venet, A. Ayala. Rhode Island Hosp./Brown Univ., Providence, RI.

2:45 pm  Monocyte transmigration reduces antimicrobial gene expression and inhibits apoptosis. M.R. Williams, S.G. Eskin, L.V. McIntire. Georgia Inst. of Technol. and Emory Univ., Atlanta, GA.

1:00 - 3:00 pm  Symposium 2: Host-Pathogen Interactions: Bacteria and Parasites
(Continental B)

Chairs: Michele Swanson, Univ. of Michigan Med. Sch., Ann Arbor, MI
Lee-Ann Allen, Univ. of Iowa, Iowa City, IA

1:00 pm  Modulation of cytosol-specific innate immune signaling by XIAP. M. O’Riordan. Univ. of Michiagn, Ann Arbor, MI.

1:30 pm  Pyroptosis: inflammatory response during infection. B. Cookson. Univ. of Washington, Seattle, WA.


2:30 pm  Francisella tularensis inhibits protein kinase Cα to prevent phagosome maturation. L-A.H. Allen, G.S. Schulert. Univ. of Iowa and VA Med. Ctr., Iowa City, IA.

3:00 - 3:20 pm Coffee Break (Continental C)

3:20 - 5:20 pm Symposium 3:
Integration of Inflammatory and Metabolic Pathways
(Continental A)

Chairs: Christopher Karp, Cincinnati Children’s Hosp. Med. Ctr., Cincinnati, OH
Jill Suttles, Univ. of Louisville Sch. of Med., Louisville, KY


3:50 pm Lipids, inflammation, and adipose tissue macrophages: Can a chemokine influence their interactions? A. Hasty. Vanderbilt Univ., Nashville, TN.


4:35 pm Effect of dietary n-3 polyunsaturated fatty acids on the macrophage response to M. tuberculosis infection. D.L. Bonilla-Escobar, R.S. Chapkin, D.N. McMurray. Texas A&M Hlth. Sci. Ctr., College Station, TX.


3:20 - 5:20 pm Symposium 4:
Host-Pathogen Interactions: Viruses (Continental B)

Chairs: Luis Montaner, Wistar Inst., Philadelphia, PA
Angela Dolganiuc, Univ. of Massachusetts Med. Sch., Worcester, MA

3:20 pm Regulation of antiviral CD8 T cell responses during chronic infection. E. J. Wherry. The Wistar Inst., Philadelphia, PA.
3:50 pm  **Virus receptors on lung cells and leukocytes.**  K. Holmes.  Univ. of Colorado Hlth. Sci. Ctr., Denver, CO.


4:35 pm  **Fetal persistent infection with bovine viral diarrhea virus causes downregulation of T cell receptor and CXCR4 pathways in blood of cows.**  N.P. Smirnova, A.A. Ptitsyn, K.J. Austin, H. Bielefeldt-Ohmann, H. Van Campen, T.R. Hansen.  Colorado State Univ., Fort Collins, CO; Univ. of Wyoming, Laramie, WY.

4:50 pm  **Human plasmacytoid dendritic cell (pDC) but not conventional DC (cDC) preferentially acquire antigen from and produce IFN-α in response to live, HSV-infected Raji and MDDC.**  P. Fitzgerald-Bocarsly, R. Wnek, S. Singh, E. Jacobs, T. George, G. Gupta.  UMDNJ-New Jersey Med. Sch., Newark, NJ; Merck Labs., Rahway, NJ; Amnis Corp., Seattle WA.

5:05 pm  **Deletion of the beta-defensin 1 gene impairs survival following a lethal influenza virus infection in mice.**  L.K. Ryan, P.A. Fitzgerald-Bocarsly, G. Diamond.  UMDNJ, Newark, NJ.

5:30 - 6:30 pm  **Bonazinga Award Lecture (Continental A&B)**

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5:30 pm  **Neutrophil and monocyte trafficking in health and disease.**  K. Ley.  Div. of Inflammation Biol., La Jolla Inst. for Allergy and Immunol., La Jolla, CA.

5:30 - 6:30 pm  **Poster Session 2 and Bonazinga Reception (Continental C)**

Saturday, November 8

8:00 am - 3:00 pm  **Registration (Conference Office C)**

8:00 - 8:55 am  **Poster Workshop 2: Leukocyte Activation in Host Defense (Continental A&B)**

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8:00 am  **Toll-like receptors regulates phagocytosis through MyD88-independent activation of actin-Cdc42/Rac pathway.**  L. Kong, B-X. Ge.  Shanghai Insts, for Biol. Sci., Chinese Acad. of Sci. and Shanghai Jiao-Tong Univ. Sch. of Med., Shanghai, China.
8:14 am  Distinct localization of the NADPH oxidase flavocytochrome in resting and IFNγ-activated macrophages. A-J. Casbon, L-A.H. Allen, K.W. Dunn, M.C. Dinauer. Indiana Univ. Sch. of Med., Indianapolis, IN; Univ. of Iowa and VA Med. Ctr., Iowa City, IA.


8:42 am  Sepsis induced potentiation of peritoneal macrophage migration is mitigated by PD-1 gene deficiency. G.F. Elphick, A. Carriera, X. Huang, A. Ayala. Rhode Island Hosp./Brown Univ., Providence, RI; Univ. of Puerto Rico.

9:00 - 12:00 Noon  Plenary 2: Innate Immunity in the Lung (Continental A&B)
Jill Suttles, Univ. of Louisville Sch. of Med., Louisville, KY

9:00 am  TLR2-dependent PMN trafficking into the airway. A. Prince. Columbia University.


10:40 am  The role of circulating mesenchymal progenitor cells (fibrocytes) in the pathogenesis of pulmonary fibrosis. R. Strieter. Univ. of Virginia Sch. of Med., Charlottesville, VA.


12:00 Noon - 1:00 pm  Meet the Speaker Luncheon (by invitation only) (Augusta)

1:00 - 3:00 pm  Symposium 5: Chemokines and Chemokine Receptors (Continental A)
Sanna Goyert, CUNY Med. Sch., New York, NY

1:00 pm  Misbehavior in mice lacking leukocyte chemoattractant receptors. P. Murphy. Natl. Inst. of Hlth., Bethesda, MD.

1:30 pm  Chemokines and chemokine receptors at the interface of innate and adaptive immune responses in the respiratory system. C. Hogaboam. Univ. of Michigan, Ann Arbor, MI.
2:00 pm  Involvement of CCR5 and CXCR3 in RANKL+ cell migration and bone resorption throughout experimental periodontitis in mouse. C.E. Repeke, S.B. Ferreira, Jr., A.P.F. Trombone, I.S. Nunes, F.M. Raimundo, P.M. Colavite, J.S. Silva, A.P. Campanelli, G.P. Garlet. Bauru Sch. of Dentistry, Univ. of Sao Paulo, Brazil.


2:30 pm  IL-33 orchestrates neutrophil migration in knee joint inflammation model in mice. W.A. Verri, S.Y. Fukada, F.O. Souto, D. Xu, S.M. Vieira, J.C. Alves-Filho, T.M. Cunha, S.H. Ferreira, F.Y. Liew, F.Q. Cunha. Univ. of Sao Paulo, Ribeirão Preto, Brazil; Univ. Estadual de Londrina, Londrina, Brazil; Univ. of Glasgow, Glasgow, UK.

2:45 pm  Inversion of chemokine gradients and enhanced pmN recruitment protects CD14-deficient mice from lethal infection with clinical *E. coli* isolates. S. Metkar, K.S. Kim, J. Silver, S. Goyert. Sophie Davis Sch. of Biomed. Sci., CUNY, New York, NY; Johns Hopkins Sch. of Med., Baltimore, MD.

1:00 - 3:00 pm Symposium 6: Cytokine Regulation of Inflammation (Continental B)  
Chairs: Vito Pistoia, G. Gaslini Inst., Genoa, Italy  
Andrea Tenner, Uni. of California, Irvine, Irvine, CA

1:00 pm  Act1, a “doubled-edged sword” in immunity. X. Li. Cleveland Clinic Fndn., Cleveland, OH.


2:00 pm  C1q enhances microglial clearance of apoptotic neurons and modulates cytokine expression. D.A. Fraser, K. Pisalyaput, E.C. Vogler, A.J. Tenner. Univ. of California, Irvine, Irvine, CA.


2:45 pm  Targeting of IL-12 to human non-small cell lung cancer counters

3:00 - 3:20 pm Coffee Break (Continental C)

3:20 - 5:20 pm Symposium 7: Lipid Mediators of Leukocyte Function (Continental A)
Chairs: Christina Leslie, Natl. Jewish Hlth., Denver, CO
Julian Gomez-Cambronero, Wright State Univ. Sch. of Med., Dayton, OH

3:20 pm Regulation of cytosolic phospholipase A2 activation and eicosanoid production in macrophages by Candida albicans. C. Leslie. Natl. Jewish Hlth., Denver, CO.

3:50 pm Eicosanoid lipid mediators: critical determinants of leukocyte innate immune function. M. Peters-Golden. Univ. of Michiagn, Ann Arbor, MI.


4:35 pm Phospholipase D2 mutations on the canonical binding motifs for SH2-Grb2 (Y165, Y169, Y179) and their regulatory effect on leukocyte chemotaxis. J. Gomez Cambronero, K. Knaepk, M. Di Fulvio, K. Frondorf, K. Henkel, H-J. Peng. Wright State Univ Sch. of Med., Dayton, OH.


5:05 pm Regulation of Th17 differentiation by epidermal fatty acid-binding protein. B. Li, J.M. Reynolds, R.D. Stout, J. Suttles. Univ. of Louisville Hlth. Sci. Ctr., Louisville, KY.

3:20 - 5:20 pm Symposium 8: Translational Research in Inflammation (Continental B)
Chairs: Michael Smith, Wyeth Res., Collegeville, PA
Matthew Fenton, NIAID, NIH, Bethesda, MD
3:20 pm  Role of NKT cells in tissue protection by adenosine A2A receptor activation. J. Linden. Univ. of Virginia, Charlottesville, VA.

3:50 pm  mTOR blockade in autoimmunity. D. Young. Wyeth Res., Cambridge, MA.

4:20 pm  Simultaneously upregulated inhibitory CD47, thrombospondin-1 and TGF-β latent activated protein and depressed co-stimulatory receptors contribute to trauma patients’ inhibitory DC activity. G. Bandyopadhyay, S. Bandyopadhyay, S. Kundimi, C. Miller-Graziano. Univ of Rochester, Rochester NY.


4:50 pm  Identification of an expanded CD4+ T cell subset, CD40+CD14+LKLF hi, in the peripheral blood of cystic fibrosis patients. N.D. Pennock, L. Sanders, D.H. Wagner, Jr., M. Saavedra. Univ. of Colorado Denver, Denver, CO; Natl. Jewish Hlth., Denver, CO.


7:00 - 10:00 pm  Awards Banquet (Continental Ballroom)
8:00 - 8:25 am  Marc Moss (University of Colorado Denver and Health Sciences Center)
Alcohol, pneumonia and lung injury: The epidemiological story

8:25 - 8:50   Luisa A. DiPietro (University of Illinois at Chicago)
Alcohol and wound repair: Brewing trouble at sites of injury

8:50 - 9:05  Caroline E. Raasch (Louisiana State University Health Sciences Center, New Orleans)
Alcohol intoxication attenuates the hematopoietic stem cell response to pneumococcal pneumonia

9:05 - 9:20  John Karavitis (Loyola University Medical Center)
Fcγ-receptor mediated phagocytosis is attenuated after acute in vivo or in vitro ethanol exposure due to attenuated Rho activation

9:20 - 9:45  Gavin Arteel (University of Louisville)
Plasminogen activator inhibitor-1 at the crossroad of innate immunity and coagulation

9:45 - 10:05  BREAK

10:05 - 10:20  Juliane I. Beire (University of Louisville)
Enhanced fibrin deposition plays a critical role in the sensitization to lipopolysaccharide-induced liver injury caused by ethanol in mice.

10:20 - 10:35  Palash Mandal (Cleveland Clinic)
Adiponectin normalizes LPS-mediated TNFα in Kupffer cells: Role of IL-10 and inducible heme oxygenase-1

10:35- 11:00  Patricia E. Molina (Louisiana State University Health Sciences Center, New Orleans)
Alcohol interaction with host defense in traumatic injury

11:00 – 11:15  Suhail Akhtar (University of Alabama at Birmingham)
Interleukin-18 delays neutrophil apoptosis following alcohol intoxication and burn injury

11:15- 11:40  Sam Zakhari (National Institute on Alcohol Abuse and Alcoholism)
Alcohol and immunology: Where do we go from here?

11:40 – 12:00 pm  M. Katherine Jung (National Institute on Alcohol Abuse and Alcoholism)
and Elizabeth J. Kovacs (Loyola University Medical Center)
Discussion and Conclusions

Registration is required (no registration fee): To register, please send name, address, phone number, and email address, to: Letta Kochalis, Phone: 708-327-2446, email: lkochal@lumc.edu

For information about the meeting, contact: Elizabeth J. Kovacs, Ph.D., Phone: 708-327-2477, email: ekovacs@lumc.edu, or M. Katherine Jung, Ph.D., Phone: 301-443-8744, email: jungma@mail.nih.gov

Supported by: The Alcohol Research Program, the Burn & Shock Trauma Institute, and the Department of Surgery, Loyola University Medical Center, Maywood, IL, Alcohol and Immunology Research Interest Group (AIRIG), The Society for Leukocyte Biology (SLB), and The National Institute on Alcohol Abuse and Alcoholism (NIAAA)