SATURDAY, JUNE 9, 2018

8:00 AM – 1:00 PM  
**Council Meeting (invitation only)**  
Timothy R. Billiar, MD, Shock Society President  
University of Pittsburgh, Pittsburgh, PA  
*Lincoln*

8:00 AM – 6:00 PM  
**Speaker Ready Room**  
*Salon M*

10:00 AM – 6:00 PM  
**Registration**  
*West Foyer*

1:00 PM – 2:30 PM  
**PLENARY SESSION I: Integration and Connectivity in Shock Research**  
Moderators:  
Timothy R. Billiar, MD, University of Pittsburgh, Pittsburgh, PA  
Melanie Scott, MD, PhD, University of Pittsburgh, Pittsburgh, PA  
*Salon CDEG*

1:00 PM – 1:30 PM  
**40th Anniversary Opening Remarks**

1:30 PM – 2:00 PM  
**Role of NF-kappaB Activation in LY6C+ Monocytes in Necrotizing Enterocolitis**  
(Isabstract 1)  
Isabelle G. De Plaen, MD, Northwestern University Feinberg School of Medicine, Chicago, IL  
Talks from top two scored abstracts

2:00 PM – 2:15 PM  
**Increased Survival in the Absence of TLR-3 is Attributed to Improved Bactericidal Activity of the Alveolar Macrophage in a Murine Model of Klebsiella Pneumoniae**  
(Abstract 3)  
Madathilparambil V. Suresh, PhD, University of Michigan, Ann Arbor, MI

2:15 PM – 2:30 PM  
**Transcriptional Control of Skeletal Muscle Bioenergetics in Patients with Severe Burns**  
(Abstract 4)  
Evan Ross, MD, The University of Texas Medical Branch, Galveston, TX

2:30 PM – 3:00 PM  
**Refreshment Break**  
*West Foyer*

3:00 PM – 5:00 PM  
**PLENARY SESSION II: The Science of Shock: Talks Selected from Submitted Abstracts**  
Moderators:  
Elizabeth J. Kovacs, PhD, University of Colorado Denver, Aurora, CO  
Kevin Mollen, MD, University of Pittsburgh Medical Center, Pittsburgh, PA  
*Salon CDEG*

3:00 PM – 3:15 PM  
**Myeloid-specific Deletion of Arginase-1 Enhances Post-burn Pulmonary Immune Responses Against Pseudomonas Aeruginosa Pneumonia**  
(Abstract 5)  
Devin M. Boe, BA, University of Colorado Denver, Aurora, CO
Hepatic Cellular Stress Induces Periportal Progenitor Cells Proliferation which Contributes to Prolonged Inflammatory Response and Hypermetabolism after Severe Trauma Injury (Abstract 6)
Li Diao, MD, Sunnybrook Research Institute, Toronto, Canada

GM-CSF Improves Innate Immune Dysfunction and Sepsis Survival in Obese Diabetic Mice (Abstract 7)
Lynn M. Frydrych, MD, University of Michigan, Ann Arbor, MI

Kidney Proximal Tubular TLR9 Exacerbates Ischemic Acute Kidney Injury (Abstract 8)
Sang Jun Han, PhD, College of Physicians and Surgeons of Columbia University, New York, NY

Benefits and Harms of Early Prophylactic Inferior Vena Cava Filter in Major Trauma Patients: A Multicenter Randomized-Controlled-Trial (RCT) (Abstract 9)
Kwok Ming Ho, PhD, FCICM, Royal Perth Hospital and University of Western Australia, Perth, Australia

Anti-PD-L1 Attenuates T Cell Dysfunction and Protects Against Infection with Common Nosocomial Pathogens after Severe Burn Injury (Abstract 10)
Naeem Patil, MD, PhD, Vanderbilt University Medical Center, Nashville, TN

Regulation of Intestinal Bacterial Translocation by Intestinal Lamina Propria Dendritic Cells Expressing TLR5 after Trauma/Hemorrhagic Shock (Abstract 11)
Jian Zhang, PhD, Zhejiang University, Hang Zhou, China

Endothelial Progenitor Cells Exosomes Improve the Outcome of a Murine Model of Sepsis through MIR-126 (Abstract 12)
Yue Zhou, PhD, Nanjing University of Chinese Medicine, Nanjing, China and Medical University of South Carolina, Charleston, SC

PRESIDENTIAL ADDRESS
Elizabeth J. Kovacs, PhD, University of Colorado Denver, Aurora, CO
Salon CDEG

Presidential Reception
Salon ABF

Dinner on Your Own

SPEED MENTORING SESSION
Co-Chairs:
Carrie Sims, MD, University of Pennsylvania, Philadelphia, PA
Susan Evans, MD, Carolinas HealthCare System, Charlotte, NC
Salon CDEG

SUNDAY, JUNE 10, 2018

Editorial Board Breakfast (invitation only)
Lincoln

CONTINENTAL BREAKFAST & POSTER SESSION I (P1 – P81)
Salon I-L

Speaker Ready Room
Salon M

Registration
West Foyer
10:00 AM – 11:00 AM  Program Committee Meeting *(invitation only)*  
*Lincoln*

9:00 AM – 11:00 AM  Grant Writing Tips and Tricks  
Co-Chairs:  
Alfred Ayala, PhD, Brown University, Providence, RI  
David Williams, PhD, East Tennessee State University, Johnson City, TN  
*Salon CDEG*

9:00 AM – 9:30 AM  Conjuring Your Best Grants: Tips and Tricks for a Magical R01  
Melanie Scott, MD, PhD, University of Pittsburgh, Pittsburgh, PA

9:30 AM – 10:00 AM  Quest for the “K”: In Pursuit of Improved Patient Outcomes  
Antonio Hernandez, MD, Vanderbilt University Medical Center, Nashville, TN

10:00 AM – 10:30 AM  The Peer Reviewer's Perspective on Grant Proposals  
Judith Hellman, MD, University of California, San Francisco, CA

10:30 AM – 11:00 AM  Panel Discussion

11:00 AM – 11:30 AM  Refreshment Break  
*West Foyer*

11:30 AM – 12:30 PM  KEYNOTE ADDRESS: Michael Gershon  
Introduction:  
David Hackam, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD  
*Salon CDEG*

11:30 AM – 12:30 PM  The Many Shocking Roles that 5-HT Plays in the Bowel  
Michael D. Gershon, MD, Columbia University, New York, NY

12:30 PM – 1:30 PM  Boxed Lunch  
*West Foyer*

12:30 PM – 1:30 PM  Luncheon Seminar: Diversity and Inclusion in Shock Research  
Moderator: Antonio Davila, University of Pennsylvania, Philadelphia, PA  
Presenter: Nancy Baxter, St. Michael’s Hospital, Toronto, Canada  
*Salon ABF*

1:30 PM – 2:15 PM  Cold-inducible RNA-binding Protein Induces Neutrophil Reverse Transendothelial Migration via Neutrophil Elastase-dependent Reduction of Junctional Adhesion Molecule-C in Lungs in Sepsis *(Abstract 13)*  
Hui Jin, MD, PhD, The Feinstein Institute for Medical Research, Manhasset, NY

1:45 PM – 2:00 PM  Burn-induced Microglia Activation is Associated with Motor Neuron Degeneration and Muscle Wasting in Mice *(Abstract 14)*  
Li Ma, MD, PhD, Massachusetts General Hospital, Harvard Medical School, Boston, MA and Burn Institute, Beijing, China

2:00 PM – 2:15 PM  Acid Sphingomyelinase Inhibition Reduces Neuropathologic Findings After Traumatic Brain Injury *(Abstract 15)*  
Grace E. Martin, MD, University of Cincinnati, Cincinnati, OH
### 2:15 PM – 2:30 PM

Protein Kinase C-Delta (PKCδ) Tyrosine Phosphorylation is a Critical Regulator of Neutrophil-endothelial Cell Interactions in Inflammation *(Abstract 16)*  
Fariborz Soroush, PhD Candidate, Temple University, Philadelphia, PA

### 2:30 PM – 2:45 PM

Surfactant Protein D Alleviates Severe Acute Pancreatitis-induced Inflammation and Injury by Suppressing NLRP3 Inflammasome Activation and NF-κB Signaling Pathway *(Abstract 17)*  
Jia Yu, MD, PhD, SUNY Upstate Medical University, Syracuse, NY

### 2:50 PM – 3:55 PM

| RESEARCH FELLOWSHIP RECIPIENT PRESENTATIONS | Moderator:  
Weng-Lang Yang, PhD, The Feinstein Institute for Medical Research, Manhasset, NY |
| **Salon CDEG** |
| **2:50 PM – 3:10 PM** | Innate Immune Dysfunction Drives Sepsis Mortality in Obese Diabetic Mice *(Abstract 18)*  
Matthew J. Delano, MD, PhD, University of Michigan, Ann Arbor, MI  
**Shock Faculty Research Award 2016 Recipient** |
| **3:10 PM – 3:25 PM** | A Uniquely-Human Gene Alters The Inflammatory Response To Injury *(Abstract 19)*  
Theresa W. Chan, MD, University of California, San Diego, CA  
**Shock Research Investigator Fellowship 2017 Recipient** |
| **3:25 PM – 3:40 PM** | Influence of Neutrophil Extracellular Traps on Vascular Permeability *(Abstract 20)*  
Hisatake Mori, Bachelor of Medicine, Aichi Medical University School of Medicine, Nagakute, Japan  
**Japan Shock Society Young Investigator Award 2017 Winner** |
| **3:40 PM – 3:55 PM** | Integrin and PD-1 Ligand Expression on Circulating Extracellular Vesicles in Systemic Inflammatory Response Syndrome and Sepsis *(Abstract 21)*  
Eiji Kawamoto, MD, PhD, Mie University Graduate School of Medicine, Tsu-city, Japan  
**Japan Shock Society Young Investigator Award 2017 Winner** |
| **3:55 PM – 4:15 PM** | Refreshment Break  
**West Foyer** |

### 4:15 PM – 6:15 PM

| PARALLEL SESSION I: The Cellular Basis of Shock  
| Moderators:  
Melanie Scott, MD, PhD, University of Pittsburgh, Pittsburgh, PA  
Yoram Vodovotz, PhD, University of Pittsburgh, Pittsburgh, PA |
| **Salon CDEG** |
| **4:15 PM – 4:30 PM** | Platelet Integrin Gene Expression and Function are Upregulated in Sepsis and Associated with Morality *(Abstract 22)*  
Elizabeth A. Middleton, MD, University of Utah, Salt Lake City, UT |
| **4:30 PM – 4:45 PM** | Extracellular (EX) MIR-146a Induces Proinflammatory Response via TLR7 Signaling in a Murine Sepsis Model *(Abstract 23)*  
Sheng Wang, PhD, University of Maryland School of Medicine, Baltimore, MD |
| **4:45 PM – 5:00 PM** | The TLR4 Agonist Monophosphoryl Lipid A Mediates Broad Protection Against Infection via Augmentation of Innate Antimicrobial Cell Functions *(Abstract 24)*  
Liming Luan, PhD, Vanderbilt University Medical Center, Nashville, TN |
| **5:00 PM – 5:15 PM** | CIRP Induces NETosis in Lungs during Sepsis *(Abstract 25)*  
Yasumasa Ode, MD, PhD, The Feinstein Institute for Medical Research, Manhasset, NY |
| **5:15 PM – 5:30 PM** | Hepatic Signal Transducer and Activator of Transcription-3 (STAT3) Alters the Inflammatory Response in Obese Mice during Sepsis *(Abstract 26)*  
Jennifer Kaplan, MD, Cincinnati Children's Hospital Medical Center, Cincinnati, OH |
5:30 PM – 5:45 PM  | TIGIT Modulates Sepsis-induced Dysregulation in Hosts with Pre-existing Malignancy  
(Abstract 27)  
Wenxiao Zhang, MD, Emory University School of Medicine, Atlanta, GA

5:45 PM – 6:00 PM  | Sepsis Differentially Impacts Tumor-Specific vs. Bystander T Cells in Mice with Pre-existing Malignancy  
(Abstract 28)  
Ching-wen Chen, MS, Emory University School of Medicine, Atlanta, GA

6:00 PM – 6:15 PM  | MIR-146a Targeting Splenic Macrophages Prevents Sepsis-induced Multiple Organ Injury Including Acute Kidney Injury  
(Abstract 29)  
Yoshio Funahashi, MD, Nagoya University Graduate School of Medicine, Nagoya, Japan

4:15 PM – 6:15 PM  | PARALLEL SESSION II: The Physiologic Basis of Shock  
Moderators:  
Celeste Finnerty, PhD, UTMB/ Shriners Hospitals for Children, Galveston, TX  
Samithamby Jeyaseelan, PhD, Louisiana State University, Baton Rouge, LA  
Salon ABF

4:15 PM – 4:30 PM  | Metformin, Independently of AMPK, Reduces Lipolysis via Protein Phosphatase 2A Activation in Beige Adipose Tissue  
(Abstract 30)  
Christopher Auger, PhD, Sunnybrook Health Sciences Centre, Toronto, Canada

4:30 PM – 4:45 PM  | FLI-1 Induces Pericyte Loss and Microvascular Dysfunction in Murine Sepsis  
(Abstract 32)  
Pengfei Li, PhD, Medical University of South Carolina, Charleston, SC

4:45 PM – 5:00 PM  | A Versatile Nanotrap to Remove Endotoxin and Cytokines for Sepsis Treatment  
(Abstract 33)  
Juntao Luo, PhD, SUNY Upstate Medical University, Syracuse, NY

5:00 PM – 5:15 PM  | Increased Platelet MHC I Expression during Severe Sepsis Impairs CD8+ T Cell Responses  
(Abstract 31)  
Li Guo, MD, PhD, University of Utah, Salt Lake City, UT

5:15 PM – 5:30 PM  | Trauma Induced Emergency Hematopoiesis through MyD88-Dependent Production of G-CSF  
(Abstract 34)  
Isaiah R. Turnbull, MD, PhD, Washington University, St. Louis, MO

5:30 PM – 5:45 PM  | Role of Toll-like Receptor Signaling in Sepsis-induced Coagulopathy  
(Abstract 35)  
Brittney Williams, MD, University of Maryland School of Medicine, Baltimore, MD

5:45 PM – 6:00 PM  | Role of Human SP-B Genetic Variants and Sex Difference on Lung Injury Caused by P. Aeruginosa  
(Abstract 36)  
Jing Zhang, MD/PhD, SUNY Upstate Medical University, Syracuse, NY and Shandong Provincial Hospital Affiliated to Shandong University, Jinan, China

6:00 PM – 6:15 PM  | HDAC6 Inhibition Blocks LPS-induced STAT Activation and Inflammatory Lung Injury  
(Abstract 37)  
Xiaoming Zhou, MD, Shengjing Hospital of China Medical University, Shenyang, China and University of Kentucky, Lexington, KY

6:30 PM – 7:30 PM  | Reception  
West Foyer

7:30 PM – 10:00 PM  | Dinner  
New Investigator Competition and Travel Awards Ceremony  
Salon CDEG  
Tickets will be collected
MONDAY, JUNE 11, 2018

6:00 AM – 7:00 AM  
35th Annual Presidential Fun Run  
Runners to meet in hotel lobby at 5:45 AM

7:00 AM – 9:00 AM  
CONTINENTAL BREAKFAST & POSTER SESSION II (B82 – B161, P169)  
Salon FL

7:00 AM – 1:00 PM  
Registration  
West Foyer

7:00 AM – 5:00 PM  
Speaker Ready Room  
Salon M

9:00 AM – 11:30 AM  
PLENARY SESSION III: Pillars of Shock Research  
Moderator:  
David Hackam, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD  
Salon CDEG

9:00 AM – 9:45 AM  
Just Say Yes! The Life of a Surgeon-Scientist  
Ori Rotstein, MD, St. Michael’s Hospital & University of Toronto, Toronto, Canada

9:45 AM – 10:30 AM  
The Complex Immune Response Following a Simple Injury and Repair  
(Abstract 39)  
Paul Kubes, PhD, Cumming School of Medicine, University of Calgary, Calgary, Canada

10:30 AM – 11:00 AM  
Interventions in Cellular Stress Pathways  
(Abstract 2)  
Peter Wipf, PhD, University of Pittsburgh, Pittsburgh, PA

11:00 AM – 11:15 AM  
Caspase-8 Heterodimerization Regulates Inflammatory Neutrophil Survival in Sepsis  
(Abstract 40)  
Sahil Gupta, PhD, St. Michael's Hospital & University of Toronto, Toronto, Canada

11:15 AM – 11:30 AM  
Hepatocytes Actively Release HMGB1 via Exosomes during Sepsis.  
(Abstract 41)  
Wenbo Li, MD, University of Pittsburgh, Pittsburgh, PA and The Third Xiangya Hospital, Central South University, Changsha, China

11:30 AM – 11:45 AM  
Refreshment Break  
West Foyer

11:45 AM – 12:45 PM  
SHOCK BUSINESS MEETING  
Timothy R. Billiar, MD, Shock Society President  
University of Pittsburgh, Pittsburgh, PA  
Salon CDEG

12:45 PM  
Free Afternoon & Evening

1:00 PM – 6:00 PM  
Strategic Planning Meeting (invitation only)  
Lincoln

TUESDAY, JUNE 12, 2018

7:00 AM – 9:00 AM  
CONTINENTAL BREAKFAST & POSTER SESSION III (P162 – P241)  
Salon FL
<table>
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<tr>
<th>Time</th>
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</table>
| 7:00 AM – 1:00 PM | Speaker Ready Room  
*Salon M*                                                            |
| 7:00 AM – 3:30 PM | Registration  
*West Foyer*                                                     |
| 9:00 AM – 11:30 AM | PARALLEL SESSION III: Connectivity in Shock  
**Moderators:**  
Jennifer Kaplan, MD, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH  
Barbara Sherry, PhD, The Feinstein Institute for Medical Research, Manhasset, NY  
*Salon CDEG* |
| 9:00 AM – 9:15 AM | Promotor Polymorphism in AQP5 Gene Associates with Increased Survival and Decreased Numbers of Monocytic MDSC in Abdominal Sepsis (BY SEPSIS-3) *(Abstract 42)*  
Vladimir M. Pisarev, MD, PhD, Federal Research and Clinical Center of Intensive Care Medicine, Moscow, Russia |
| 9:15 AM – 9:30 AM | Sepsis is Associated with Reduced Spontaneous Neutrophil Migration Velocity in Human Adults *(Abstract 43)*  
Steven L. Raymond, MD, University of Florida College of Medicine, Gainesville, FL |
| 9:30 AM – 9:45 AM | Protein Kinase C-delta Inhibition Protects the Brain from Sepsis-Induced Vascular Damage *(Abstract 44)*  
Yuan Tang, PhD, Temple University, Philadelphia, PA |
| 9:45 AM – 10:00 AM | Isoforms of HMGB1 Activate Neuronal Cells in Vitro and Modulate Pain-Like Behavior in Animals *(Abstract 45)*  
Huan Yang, PhD, The Feinstein Institute for Medical Research, Manhasset, NY |
| 10:00 AM – 10:15 AM | The Acute Effects of Insulin on Whole Body Fuel Metabolism and Skeletal Muscle Bioenergetics in Severely Burned Children *(Abstract 46)*  
Victoria Rontoyanni, PhD, University of Texas Medical Branch, Galveston, TX |
| 10:15 AM – 10:30 AM | R-107 Attenuates Severity of Systemic Microvascular Hyper-Permeability in Ovine Septic Shock *(Abstract 47)*  
Satoshi Fukuda, MD, University of Texas Medical Branch, Galveston, TX |
| 10:30 AM – 10:45 AM | Synthetic Phosphorylated Hexaacyl Disaccharides are Potent TLR4 Agonists and Augment Host Resistance Against Common Nosocomial Pathogens *(Abstract 48)*  
Antonio Hernandez, MD, Vanderbilt University Medical Center, Nashville, TN |
| 10:45 AM – 11:00 AM | Innate Immune System Monitoring by Spontaneous Neutrophil Migration after Burn Injury *(Abstract 49)*  
Masayuki Otawara, MD, Massachusetts General Hospital, Harvard Medical School, Boston MA and Kyorin University, Tokyo, Japan |
| 11:00 AM – 11:15 AM | Autophagy Mechanism Attenuates Hepatic Cellular Dysfunction in a Murine Sepsis Model *(Abstract 50)*  
Eizo Watanabe, MD, PhD, Chiba University, Togane City, Japan |
| 11:15 AM – 11:30 AM | Preoperative Exercise Therapy Protects the Liver from Ischemia-Reperfusion Injury *(Abstract 51)*  
Hongji Zhang, MD, University of Pittsburgh Medical Center, Pittsburgh, PA and Union Hospital, Huazhong University of Science and Technology, Wuhan, China |
| 9:00 AM – 11:30 AM | PARALLEL SESSION IV: Integration in Shock Research  
**Moderators:**  
Marc Jeschke, MD, PhD, Sunnybrook Research Institute, Toronto, Canada  
Teresa Zimmers, PhD, Indiana University School of Medicine, Indianapolis, IN  
*Salon ABF* |

*Abstracts are referenced throughout the schedule for specific details.*
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Abstract/Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>9:00 AM – 9:15 AM</td>
<td>ACE2 Modulates Innate Immune Response Against Bacterial Lung Infection</td>
<td>(Abstract 52)</td>
<td>Hongpeng Jia, MD, Johns Hopkins University, Baltimore, MD</td>
</tr>
<tr>
<td>9:15 AM – 9:30 AM</td>
<td>Prospective Validation of a Genomic Metric for Use in Clinical Trials with Severe Trauma</td>
<td>(Abstract 53)</td>
<td>Russell B. Hawkins, MD, University of Florida, Gainesville, FL</td>
</tr>
<tr>
<td>9:30 AM – 9:45 AM</td>
<td>The RNA Splicosome in Critical Illness: U1-70K as a Potential Therapeutic Target</td>
<td>(Abstract 54)</td>
<td>Sean F. Monaghan, MD, Rhode Island Hospital and Brown University, Providence, RI</td>
</tr>
<tr>
<td>9:45 AM – 10:00 AM</td>
<td>Effect of Electrical Vagus Nerve Stimulation on Neurological Outcome in Asphyxial Cardiac Arrest Model of Rats</td>
<td>(Abstract 55)</td>
<td>Inwon Park, MD, PhD, Seoul National University Bundang Hospital (SNUBH), Seongnam-si, Republic of Korea</td>
</tr>
<tr>
<td>10:00 AM – 10:15 AM</td>
<td>Humanized-mouse Platform for Deciphering Clinically Relevant Differences in the Bone Marrow and Splenic Leukocytes between Lethal and Survivable CLP Sepsis</td>
<td>(Abstract 56)</td>
<td>Tomasz Skirecki, MD, PhD, The Center of Postgraduate Medical Education, Warsaw, Poland</td>
</tr>
<tr>
<td>10:15 AM – 10:30 AM</td>
<td>SECTM1A Attenuates Sepsis-induced Impairment of Tissue-resident Macrophage Self-renewal Capacity in Mice</td>
<td>(Abstract 57)</td>
<td>Xingjiang Mu, PhD, University of Cincinnati College of Medicine, Cincinnati, OH</td>
</tr>
<tr>
<td>10:30 AM – 10:45 AM</td>
<td>Apoptotic T Cell-Derived Microparticles Containing Sonic Hedgehog Significantly Diminish Endothelial Nitric Oxide Production in Inflammatory via Rho Kinase Pathway</td>
<td>(Abstract 58)</td>
<td>Neha Attal, MS, University of North Carolina, Charlotte, NC</td>
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<tr>
<td>10:45 AM – 11:00 AM</td>
<td>Toll Like Receptor 7 Deficiency Reduces Acute Kidney Injury and Improves Survival in a Mouse Model of Sepsis</td>
<td>(Abstract 59)</td>
<td>Briana Shimada, PhD, University of Maryland School of Medicine, Baltimore, MD</td>
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<tr>
<td>11:00 AM – 11:15 AM</td>
<td>Optogenetic Stimulation of Cholinergic Neurons in the Dorsal Motor Nucleus Attenuates Endotoxin-Induced Systemic Inflammatory Responses</td>
<td>(Abstract 61)</td>
<td>Adam M. Kressel, MD, The Feinstein Institute for Medical Research and Northwell Health, Manhasset, NY</td>
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<tr>
<td>11:30 AM – 12:30 PM</td>
<td>Lunch</td>
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<td>salon I-L</td>
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<tr>
<td>12:30 PM – 1:30 PM</td>
<td>ORAL PRESENTATIONS BY YOUNG INVESTIGATORS</td>
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<td>Moderators: Carrie Sims, MD, PhD, The Trauma Center at Penn, Philadelphia, PA; Vanessa Nomellini, MD, PhD, UC Health, Cincinnati, OH</td>
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<tr>
<td>12:30 PM – 12:42 PM</td>
<td>SECTM1A is Critical for Macrophage Phagocytosis during Polymicrobial Sepsis in Mice</td>
<td>(Abstract 62)</td>
<td>Xingjiang Mu, PhD, University of Cincinnati College of Medicine, Cincinnati, OH</td>
</tr>
<tr>
<td>12:42 PM – 12:54 PM</td>
<td>Toll Like Receptor 9 Therapy Reverses the Two-hit Response to Trauma in Mice</td>
<td>(Abstract 63)</td>
<td>Yasutaka Nakahori, MD, Brigham &amp; Women's Hospital/Harvard Medical School, Boston, MA</td>
</tr>
<tr>
<td>12:54 PM – 1:06 PM</td>
<td>Splenic Neutrophils May Serve as Primary Responders to Lung Infection during Persistent Inflammation, Immunosuppression and Catabolism Syndrome</td>
<td>(Abstract 64)</td>
<td>Leah K. Winer, MD, University of Cincinnati, Cincinnati, OH</td>
</tr>
<tr>
<td>1:06 PM – 1:18 PM</td>
<td>Endothelial HSPA12B Plays a Protective Role in Sepsis-induced Mortality by Regulating Innate Immune Responses via Crosstalk between Endothelial Cells and Macrophages</td>
<td>(Abstract 65)</td>
<td>Fei Tu, MS, PhD candidate, East Tennessee State University, Johnson City, TN</td>
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<td>1:18 PM – 1:30 PM</td>
<td>Deformylase Improves Survival in Cecal Ligation Model of Sepsis and Prevents Endothelial Barrier Dysfunction in Trauma-induced Systemic Inflammatory Response syndrome (&lt;i&gt;Abstract 66&lt;/i&gt;)</td>
<td>Patricia Martinez Quinones, MD, Medical College of Georgia at Augusta University, Augusta, GA</td>
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<tr>
<td>1:30 PM – 3:10 PM</td>
<td>PLENARY SESSION IV: Bench to Bedside Translation of Therapeutics- at the Crossroads of Immunity and Host Defense</td>
<td>Moderators: Philip Efron, MD, University of Florida, Gainesville, FL Misty Good, MD, Washington University School of Medicine, St. Louis, MO</td>
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<tr>
<td>1:30 PM – 1:55 PM</td>
<td>Microvascular Endothelial Barrier Injury during Inflammation (&lt;i&gt;Abstract 67&lt;/i&gt;)</td>
<td>Sarah Yuan, MD, PhD, University of South Florida College of Medicine, Tampa, FL</td>
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<td>1:55 PM – 2:20 PM</td>
<td>To Kill or be Killed: Neutrophils in Bacterial Pneumosepsis (&lt;i&gt;Abstract 68&lt;/i&gt;)</td>
<td>Jyotika Sharma, PhD, University of North Dakota, Grand Forks, ND</td>
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<td>2:20 PM – 2:45 PM</td>
<td>Burn Injury: A Model for Bench to Bedside Translational Therapeutics in the Immunocompromised Patient (&lt;i&gt;Abstract 69&lt;/i&gt;)</td>
<td>Tina L. Palmeri, MD, Shriners Hospital for Children, Sacramento, CA</td>
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<tr>
<td>2:45 PM – 3:10 PM</td>
<td>From Bench to Bedside to Bench: Rodent Models and the Critically Ill (&lt;i&gt;Abstract 70&lt;/i&gt;)</td>
<td>Alicia M. Mohr, MD, University of Florida College of Medicine, Gainesville, FL</td>
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<tr>
<td>3:10 PM – 3:30 PM</td>
<td>Refreshment Break</td>
<td>West Foyer</td>
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<tr>
<td>3:30 PM – 5:30 PM</td>
<td>Master Class</td>
<td>Moderators: Laurie Kilpatrick, PhD, Temple University, Philadelphia, PA Shibani Pati, MD, PhD, Blood Systems Research Institute, San Francisco, CA</td>
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<td>3:30 PM – 4:00 PM</td>
<td>Mechanisms, MicroRNAs, and Modulators of the Endotheliopathy of Trauma</td>
<td>Rosemary Kozar, MD, PhD, University of Maryland, Baltimore, MD</td>
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<tr>
<td>4:00 PM – 4:30 PM</td>
<td>Leukocyte-Endothelial Cell Interactions in Inflammation</td>
<td>Laurie Kilpatrick, PhD, Temple University, Philadelphia, PA</td>
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<tr>
<td>4:30 PM – 5:00 PM</td>
<td>Assessment of Musculoskeletal Phenotypes in Cell Cultures and Mouse Models of Injury and Chronic Disease</td>
<td>Teresa Zimmers, PhD, Indiana University School of Medicine, Indianapolis, IN</td>
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<tr>
<td>5:00 PM – 5:30 PM</td>
<td>Animal Models in Neonatal Sepsis/Shock Research: From the Bench to the Bedside and Back</td>
<td>Misty Good, MD, Washington University School of Medicine, St. Louis, MO</td>
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<tr>
<td>6:00 PM – 7:00 PM</td>
<td>Reception</td>
<td>West Foyer</td>
<td></td>
</tr>
<tr>
<td>7:00 PM – 9:00 PM</td>
<td>Dinner: Scientific Achievement and Distinguished Service Awards Ceremony</td>
<td>Tickets will be collected</td>
<td></td>
</tr>
</tbody>
</table>