



## 41<sup>st</sup> ANNUAL CONFERENCE ON SHOCK

### Conference Schedule

*As of June 3, 2018*

## 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 (*Abstract 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

- 3:15 PM – 3:30 PM**      **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
- 3:30 PM – 3:45 PM**      **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
- 3:45 PM – 4:00 PM**      **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
- 4:00 PM – 4:15 PM**      **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
- 4:15 PM – 4:30 PM**      **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
- 4:30 PM – 4:45 PM**      **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
- 4:45 PM – 5:00 PM**      **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

**5:00 PM – 6:00 PM**      **PRESIDENTIAL ADDRESS**  
Elizabeth J. Kovacs, PhD, University of Colorado Denver, Aurora, CO  
[Salon CDEG](#)

**6:00 PM – 7:00 PM**      **Presidential Reception**  
[Salon ABF](#)

**Dinner on Your Own**

**7:00 PM – 8:30 PM**      **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

**7:00 AM – 8:30 AM**      **Editorial Board Breakfast** (*invitation only*)  
[Lincoln](#)

**7:00 AM – 9:00 AM**      **CONTINENTAL BREAKFAST & POSTER SESSION I (P1 – P81)**  
[Salon I-L](#)

**7:00 AM – 5:00 PM**      **Speaker Ready Room**  
[Salon M](#)

**7:00 AM – 5:00 PM**      **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 – 2:45 PM** **NEW INVESTIGATOR COMPETITION**  
Moderator:  
Weng-Lang Yang, PhD, The Feinstein Institute for Medical Research, Manhasset, NY  
Salon CDEG

**1:30 PM – 1:45 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 (PKC $\delta$ ) 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- $\kappa$ B 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 **35<sup>th</sup> 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 I-L*

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

Talks from selected abstracts

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 I-L*

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 Hexaacetyl 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

- 9:00 AM – 9:15 AM**     **ACE2 Modulates Innate Immune Response Against Bacterial Lung Infection** (*Abstract 52*)  
Hongpeng Jia, MD, Johns Hopkins University, Baltimore, MD
- 9:15 AM – 9:30 AM**     **Prospective Validation of a Genomic Metric for Use in Clinical Trials with Severe Trauma**  
(*Abstract 53*)  
Russell B. Hawkins, MD, University of Florida, Gainesville, FL
- 9:30 AM – 9:45 AM**     **The RNA Splicosome in Critical Illness: U1-70K as a Potential Therapeutic Target** (*Abstract 54*)  
Sean F. Monaghan, MD, Rhode Island Hospital and Brown University, Providence, RI
- 9:45 AM – 10:00 AM**     **Effect of Electrical Vagus Nerve Stimulation on Neurological Outcome in Asphyxial Cardiac Arrest Model of Rats** (*Abstract 55*)  
Inwon Park, MD, PhD, Seoul National University Bundang Hospital (SNUBH), Seongnam-si, Republic of Korea
- 10:00 AM – 10:15 AM**     **Humanized-mouse Platform for Deciphering Clinically Relevant Differences in the Bone Marrow and Splenic Leukocytes between Lethal and Survivable CLP Sepsis** (*Abstract 56*)  
Tomasz Skirecki, MD, PhD, The Center of Postgraduate Medical Education, Warsaw, Poland
- 10:15 AM – 10:30 AM**     **SECTM1A Attenuates Sepsis-induced Impairment of Tissue-resident Macrophage Self-renewal Capacity in Mice** (*Abstract 57*)  
Xingjiang Mu, PhD, University of Cincinnati College of Medicine, Cincinnati, OH
- 10:30 AM – 10:45 AM**     **Apoptotic T Cell-Derived Microparticles Containing Sonic Hedgehog Significantly Diminish Endothelial Nitric Oxide Production in Inflammatory via Rho Kinase Pathway** (*Abstract 58*)  
Neha Attal, MS, University of North Carolina, Charlotte, NC
- 10:45 AM – 11:00 AM**     **Toll-Like Receptor 7 Deficiency Reduces Acute Kidney Injury and Improves Survival in a Mouse Model of Sepsis** (*Abstract 59*)  
Briana Shimada, PhD, University of Maryland School of Medicine, Baltimore, MD
- 11:00 AM – 11:15 AM**     **Optogenetic Stimulation of Cholinergic Neurons in the Dorsal Motor Nucleus Attenuates Endotoxin-Induced Systemic Inflammatory Responses** (*Abstract 61*)  
Adam M. Kressel, MD, The Feinstein Institute for Medical Research and Northwell Health, Manhasset, NY
- 11:30 AM – 12:30 PM**     **Lunch**  
*Salon I-L*

**12:30 PM – 1:30 PM**     **ORAL PRESENTATIONS BY YOUNG INVESTIGATORS**

Moderators:

Carrie Sims, MD, PhD, The Trauma Center at Penn, Philadelphia, PA

Vanessa Nomellini, MD, PhD, UC Health, Cincinnati, OH

*Salon CDEG*

- 12:30 PM – 12:42 PM**     **SECTM1A is Critical for Macrophage Phagocytosis during Polymicrobial Sepsis in Mice**  
(*Abstract 62*)  
Xingjiang Mu, PhD, University of Cincinnati College of Medicine, Cincinnati, OH
- 12:42 PM – 12:54 PM**     **Toll Like Receptor 9 Therapy Reverses the Two-hit Response to Trauma in Mice** (*Abstract 63*)  
Yasutaka Nakahori, MD, Brigham & Women's Hospital/Harvard Medical School, Boston, MA
- 12:54 PM – 1:06 PM**     **Splenic Neutrophils May Serve as Primary Responders to Lung Infection during Persistent Inflammation, Immunosuppression and Catabolism Syndrome (PICS)** (*Abstract 64*)  
Leah K. Winer, MD, University of Cincinnati, Cincinnati, OH
- 1:06 PM – 1:18 PM**     **Endothelial HSPA12B Plays a Protective Role in Sepsis-induced Mortality by Regulating Innate Immune Responses via Crosstalk between Endothelial Cells and Macrophages**  
(*Abstract 65*)  
Fei Tu, MS, PhD candidate, East Tennessee State University, Johnson City, TN



**1:18 PM – 1:30 PM**      **Deformylase Improves Survival in Cecal Ligation Model of Sepsis and Prevents Endothelial Barrier Dysfunction in Trauma-induced Systemic Inflammatory Response syndrome** (*Abstract 66*)  
Patricia Martinez Quinones, MD, Medical College of Georgia at Augusta University, Augusta, GA

**1:30 PM – 3:10 PM**      **PLENARY SESSION IV: Bench to Bedside Translation of Therapeutics- at the Crossroads of Immunity and Host Defense**  
Moderators:  
Philip Efron, MD, University of Florida, Gainesville, FL  
Misty Good, MD, Washington University School of Medicine, St. Louis, MO  
[Salon CDEG](#)

**1:30 PM – 1:55 PM**      **Microvascular Endothelial Barrier Injury during Inflammation** (*Abstract 67*)  
Sarah Yuan, MD, PhD, University of South Florida College of Medicine, Tampa, FL

**1:55 PM – 2:20 PM**      **To Kill or be Killed: Neutrophils in Bacterial Pneumosepsis** (*Abstract 68*)  
Jyotika Sharma, PhD, University of North Dakota, Grand Forks, ND

**2:20 PM – 2:45 PM**      **Burn Injury: A Model for Bench to Bedside Translational Therapeutics in the Immunocompromised Patient** (*Abstract 69*)  
Tina L. Palmeri, MD, Shriners Hospital for Children, Sacramento, CA

**2:45 PM – 3:10 PM**      **From Bench to Bedside to Bench: Rodent Models and the Critically Ill** (*Abstract 70*)  
Alicia M. Mohr, MD, University of Florida College of Medicine, Gainesville, FL

**3:10 PM – 3:30 PM**      **Refreshment Break**  
[West Foyer](#)

**3:30 PM – 5:30 PM**      **Master Class**  
Moderators:  
Laurie Kilpatrick, PhD, Temple University, Philadelphia, PA  
Shibani Pati, MD, PhD, Blood Systems Research Institute, San Francisco, CA  
[Salon CDEG](#)

**3:30 PM – 4:00 PM**      **Mechanisms, MicroRNAs, and Modulators of the Endotheliopathy of Trauma**  
Rosemary Kozar, MD, PhD, University of Maryland, Baltimore, MD

**4:00 PM – 4:30 PM**      **Leukocyte-Endothelial Cell Interactions in Inflammation**  
Laurie Kilpatrick, PhD, Temple University, Philadelphia, PA

**4:30 PM – 5:00 PM**      **Assessment of Musculoskeletal Phenotypes in Cell Cultures and Mouse Models of Injury and Chronic Disease**  
Teresa Zimmers, PhD, Indiana University School of Medicine, Indianapolis, IN

**5:00 PM – 5:30 PM**      **Animal Models in Neonatal Sepsis/Shock Research: From the Bench to the Bedside and Back**  
Misty Good, MD, Washington University School of Medicine, St. Louis, MO

**6:00 PM – 7:00 PM**      **Reception**  
[West Foyer](#)

**7:00 PM – 9:00 PM**      **Dinner: Scientific Achievement and Distinguished Service Awards Ceremony**  
[Salon CDEG](#)  
*Tickets will be collected*