



41ST ANNUAL June 9 – 12, 2018 • Scottsdale, AZ
CONFERENCE ON SHOCK



41ST ANNUAL CONFERENCE ON SHOCK

JW Marriott Scottsdale Camelback Inn Resort & Spa • Scottsdale, AZ • June 9 – 12, 2018

Conference schedule as of March 16, 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
Paradise Ballroom 2

8:00 AM – 6:00 PM **Speaker Ready Room**
Paradise Ballroom 5

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

1:00 PM – 3:00 PM **PLENARY SESSION I: Integration and Connectivity in Shock Research**
Moderators:
Timothy R. Billiar, MD, University of Pittsburgh, Pittsburgh, PA
David Hackam, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD
Arizona Ballroom A-G

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

2:00 PM – 2:30 PM **Chemical Interventions in Cellular Stress Pathways** (Abstract 2)
Peter Wipf, PhD, University of Pittsburgh, Pittsburgh, PA

2:30 PM – 2:45 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

2:45 PM – 3:00 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

3:00 PM – 3:30 PM **Refreshment Break**
South Foyer

3:30 PM – 5:30 PM **PLENARY SESSION II: The Science of Shock: Talk Selected from Submitted Abstracts**
Moderators:
Elizabeth J. Kovacs, PhD, University of Colorado Denver, Aurora, CO
Kevin Mollen, University of Pittsburgh Medical Center, Pittsburgh, PA
Arizona Ballroom A-G

3:30 PM – 3:45 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

3:45 PM – 4:00 PM **Haptic 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

4:00 PM – 4:15 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

4:15 PM – 4:30 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

4:30 PM – 4:45 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

4:45 PM – 5:00 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

5:00 PM – 5:15 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

5:15 PM – 5:30 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

5:30 PM – 6:30 PM **PRESIDENTIAL ADDRESS**
Elizabeth J. Kovacs, PhD, University of Colorado Denver, Aurora, CO
Arizona Ballroom A-G

6:30 PM – 7:30 PM **Presidential Reception**
South Foyer

Dinner on Your Own

7:30 PM – 9:00 PM **SPEED MENTORING SESSION**
Co-Chairs:
Carrie Sims, MD, University of Pennsylvania
Susan Evans, MD, Carolinas HealthCare System
Arizona Ballroom H-N

SUNDAY, JUNE 10, 2018

7:00 AM – 8:30 AM **Editorial Board Breakfast (*invitation only*)**
Paradise Ballroom 2

7:00 AM – 9:00 AM **CONTINENTAL BREAKFAST & POSTER SESSION I**
Paradise Ballroom 3-4

7:00 AM – 5:00 PM **Speaker Ready Room**
Paradise Ballroom 5

7:00 AM – 5:00 PM **Registration**
West Foyer

9:00 AM – 11:00 AM **Grant Writing Tips and Tricks**
Co-Chairs:
Alfred Ayala, PhD, Brown University
David Williams, PhD, East Tennessee State University
Arizona Ballroom A-G

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**
South Foyer

11:30 AM – 12:30 PM **KEYNOTE ADDRESS: Michael Gershon**
Introduction:
David Hackam, MD, PhD, Johns Hopkins University School of Medicine,
Baltimore, MD
Arizona Ballroom A-G

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**
South Foyer

12:30 PM – 1:30 PM **Luncheon Seminar: Diversity an Inclusion in Shock Research**
Arizona Ballroom H-N

1:30 PM – 2:45 PM **NEW INVESTIGATOR COMPETITION**
Moderator:
Weng-Lang Yang, PhD, The Feinstein Institute for Medical Research, Manhasset, NY
Arizona Ballroom A-G

- 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 δ) 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- κ B Signaling Pathway** (Abstract 17)
Jia Yu, MD, PhD, SUNY Upstate Medical University, Syracuse, NY

2:50 PM – 3:50 PM **RESEARCH FELLOWSHIP RECIPIENT PRESENTATIONS**
Moderator:
Weng-Lang Yang, PhD, The Feinstein Institute for Medical Research, Manhasset, NY
[Arizona Ballroom A-G](#)

- 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**
[South 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
[Arizona Ballroom A-G](#)

- 4:15 PM – 4:30 PM** **Platelet Integrin Gene Expression and Function are Upregulated in Sepsis and Associated with Mortality** (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

[Arizona Ballroom H-N](#)

- 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** **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
- 4:45 PM – 5:00 PM** **FLI-1 Induces Pericyte Loss and Microvascular Dysfunction in Murine Sepsis** (Abstract 32)
Pengfei Li, PhD, Medical University of South Carolina, Charleston, SC
- 5:00 PM – 5:15 PM** **A Versatile Nanotrap to Remove Endotoxin and Cytokines for Sepsis Treatment** (Abstract 33)
Juntao Luo, PhD, SUNY Upstate Medical University, Syracuse, NY
- 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**
South Foyer
- 7:30 PM – 10:00 PM** **Dinner**
New Investigator Competition and Travel Awards Ceremony
Arizona Ballroom H-N
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**
Paradise Ballroom 3-4

- 7:00 AM – 1:00 PM** **Registration**
West Foyer
- 7:00 AM – 5:00 PM** **Speaker Ready Room**
Paradise Ballroom 5 Room

9:00 AM – 11:00 AM **PLENARY SESSION III: Pillars of Shock Research**
Moderator:
David Hackam, MD, PhD, Johns Hopkins University School of Medicine, Baltimore, MD
Arizona Ballroom A-G

- 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 – 10:45 AM** **Caspase-8 Heterodimerization Regulates Inflammatory Neutrophil Survival in Sepsis**
(Abstract 40)
Sahil Gupta, PhD, St. Michael's Hospital & University of Toronto, Toronto, Canada
- 10:45 AM – 11:00 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
- 11:00 AM – 11:30 AM** **Refreshment Break**
South Foyer

11:30 AM – 12:30 PM **SHOCK BUSINESS MEETING**
Timothy R. Billiar, MD, Shock Society President
University of Pittsburgh, Pittsburgh, PA
Arizona Ballroom A-G

- 12:30 PM** **Free Afternoon & Evening**

TUESDAY, JUNE 12, 2018

7:00 AM – 9:00 AM **CONTINENTAL BREAKFAST & POSTER SESSION III**
Paradise Ballroom 3-4

7:00 AM – 1:00 PM **Speaker Ready Room**
Paradise Ballroom 5

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
Arizona Ballroom A-G

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 Microvascularhyper-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

Arizona Ballroom H-N

- 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 Species Distribution and Antibiotic Resistance in East China:2010-2016 (Abstract 60)**
Yibing Zhu, MD, Fuxing Hospital, Capital Medical University, Beijing, China and Qianfoshan Hospital, Shandong University, Jinan, China
- 11:15 AM – 11:30 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**
Paradise Ballroom 3-4

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

Moderators:

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

Co-Moderator to be announced

Arizona Ballroom H-N

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

Arizona Ballroom A-G

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

South 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

Arizona Ballroom A-G

- 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**
South Foyer
- 7:00 PM – 9:00 PM** **Dinner: Scientific Achievement and Distinguished Service Awards Ceremony**
Arizona Ballroom H-N
Tickets will be collected