SATURDAY, JUNE 11, 2016

8:00 AM – 1:00 PM  Council Meeting  
 комнат 406  
 (предоставляет только)  
 Rosemary Kozar, PhD, MD, Shock Society President  
 Shock Trauma Center, University of Maryland, Baltimore, MD

10:00 AM – 6:00 PM  Registration  
 Salon G Foyer

1:00 PM – 1:10 PM  Welcome and Introductions  
 Salon H  
 Marc Jeschke, MD, PhD  
 Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada

1:10 PM – 3:00 PM  PLENARY SESSION IA: Technologies on the Forefront for Hemorrhage Control and Shock Treatment  
 Salon H  
 Moderators: Rosemary Kozar, PhD, MD, Shock Society President  
 Shock Trauma Center, University of Maryland, Baltimore, MD  
 Anthony Pusateri, PhD  
 US Army Medical Research and Materiel Command, Fort Detrick, MD

1:10 PM – 1:30 PM  Current and Future Innovations in Hemorrhage Control: Civilian Implications  
 (Abstract 1)  
 Tom Scalea, MD  
 University of Maryland School of Medicine, Baltimore, MD

1:30 PM – 1:50 PM  Advancing Technology for Aortic Occlusion in Hemorrhagic Shock  
 (Abstract 2)  
 Megan Brenner, MD  
 University of Maryland School of Medicine, Baltimore, MD

1:50 PM – 2:10 PM  Current and Future Innovations in Hemorrhage Control: Military Implications  
 (Abstract 3)  
 Todd Rasmussen, MD  
 US Combat Casualty Care Research Program, Fort Detrick, MD

2:10 PM – 2:30 PM  Research and Development Challenges for Next Generation Resuscitation  
 (Abstract 4)  
 Anthony Pusateri, PhD  
 US Army Medical Research and Materiel Command, Fort Detrick, MD
2:30 PM – 2:45 PM  Cytosolic HMGB1 Facilitates AIM2 Inflammasome Activation after Hemorrhagic Shock (Abstract 5)
Qian Sun, MD, PhD
University of Pittsburgh, Pittsburgh, PA

2:45 PM – 3:00 PM  Relationship between Intestinal Bacterial Translocation and Activation of Intestinal Lamina Propria Dendritic Cells after Trauma/Hemorrhagic Shock (Abstract 6)
Yun Zhang, MD
The Second Affiliated Hospital of Medical College, Zhejiang University, Hangzhou, China

3:00 PM – 3:30 PM  Refreshment Break
Salon H Foyer

3:30 PM – 5:30 PM  PLENARY SESSION IB: Highly Cited Papers Presented by the Editors
Salon H
Moderator: Marc Jeschke, MD, PhD
Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada
Clifford Deutschman, MS, MD
The Feinstein Institute for Medical Research, Manhasset, NY

3:30 PM – 3:50 PM  Irshad H. Chaudry, PhD, Shock, Editor-in-Chief

3:50 PM – 4:10 PM  Timothy Buchman, MD, PhD, Critical Care Medicine, Editor-in-Chief

4:10 PM – 4:30 PM  David Greenhalgh, MD, Wound Repair Regeneration, Senior Editor

4:30 PM – 4:50 PM  Steven E. Wolf, MD, Burns, Editor-in-Chief

4:50 PM – 5:10 PM  Ernest E. Moore, MD, Journal of Trauma and Acute Care Surgery, Editor-in-Chief

5:10 PM – 5:30 PM  Questions/Answers

5:30 PM – 6:30 PM  PRESIDENTIAL ADDRESS
Salon H
The Thrill of Victory and the Agony of Defeat: Research Olympics
Rosemary Kozar, PhD, MD, Shock Society President
Shock Trauma Center, University of Maryland, Baltimore, MD

Work Hard, Stay Hungry
Ping Wang, MD
The Feinstein Institute for Medical Research, Manhasset, NY

6:30 PM – 7:30 PM  Presidential Reception
Salon H Foyer
Dinner on Your Own

7:30 PM – 9:00 PM  NEW INVESTIGATORS WORKSHOP
Salon JK
Funding Opportunities and Career Development from the NIH and Department of Defense Perspectives
Goal: To obtain information and skills necessary to identify and obtain independent funding.
Moderators: Deborah L. Carlson, PhD
University of Texas Southwestern Medical Center, Dallas, TX

7:30 PM – 7:50 PM  Funding and Career Development from the NIH Perspective
Scott Somers, PhD
National Institutes of General Medical Sciences, National Institutes of Health, Bethesda, MD
7:50 PM – 8:10 PM  Funding and Career Development from the Department of Defense Perspective  
Michael A. Dubick, PhD  
US Army Institute of Surgical Research, San Antonio, TX

8:10 PM – 8:20 PM  Shock Membership Committee to discuss Shock funding and opportunities of membership

8:20 PM – 9:00 PM  Small group sessions with experienced faculty working with both MD and PhD academic tracks

SUNDAY, JUNE 12, 2016

7:00 AM – 5:00 PM  Registration  
Salon G Foyer

7:00 AM – 8:55 AM  POSTER SESSION I: Abstracts 1-85  
Continental Breakfast  
Salon FG

7:00 AM – 8:30 AM  Editorial Board Breakfast  
(invitation only)  
Room 406

8:55 AM – 11:10 AM  PLENARY SESSION II: Top Ranked Abstracts  
Moderators: Rosemary Kozar, PhD, MD, Shock Society President  
Shock Trauma Center, University of Maryland, Baltimore, MD  
Ping Wang, MD  
The Feinstein Institute for Medical Research, Manhasset, NY  
Salon H

8:55 AM – 9:10 AM  Synthetic HDL-A Effective Therapy for Sepsis (Abstract 7)  
Xiang-An Li, PhD  
University of Kentucky, Lexington, KY

9:10 AM – 9:25 AM  Interleukin (IL)-15 Plays a Critical Role in the Pathogenesis of CLP- and LPS-Induced Septic Shock by Maintaining NK and Memory CD8+ T Cells (Abstract 8)  
Yin Guo, MD  
Vanderbilt University, Nashville, TN

9:25 AM – 9:40 AM  The ICU Microbiome Project: Critical Illness is Associated with Loss of Microbial Diversity and Alterations in Metagenomics (Abstract 9)  
Paul Wischmeyer, MD  
University of Colorado School of Medicine, Denver, CO

9:40 AM – 9:55 AM  Protective Effect of Murine B-1A Cells during Sepsis (Abstract 10)  
Monowar Aziz, PhD  
The Feinstein Institute for Medical Research, Manhasset, NY

Lin Zou, MD, PhD  
University of Maryland School of Medicine, Baltimore, MD, and Massachusetts General Hospital, Harvard Medical School, Boston, MA

10:10 AM – 10:25 AM  TRPV1 Mediates the Anti-Inflammatory Activity of the Endocannabinoid N-Arachidonoyl Dopamine (NADA) During Systemic Inflammation (Abstract 12)  
Samira Lawton  
University of California San Francisco, San Francisco, CA

10:25 AM – 10:40 AM  Aged Hematopoietic Stem Cell Impairs the Production of Immunocompetent T Cells and Increases Mortality after Sepsis (Abstract 13)  
Shigeaki Inoue, MD, PhD, MSCI  
Tokai University, School of Medicine, Isehara, Japan
10:40 AM – 10:55 AM  T Cell Autophagy Plays a Protective Role through Inhibition of Apoptosis in a Murine Sepsis Model (Abstract 14)
Takehiko Oami, MD, PhD
Chiba University Graduate School of Medicine, Chiba, Japan

10:55 AM – 11:10 AM  Targeted Protein Kinase C-Delta Inhibition is Organ-Protective and Improves Pathogen Clearance and Survival in Sepsis (Abstract 15)
Elisabetta Liverani, PhD
Temple University School of Medicine, Philadelphia, PA

11:10 AM – 11:20 AM  Refreshment Break
Salon H Foyer

11:20 AM – 12:20 PM  KEYNOTE ADDRESS
Salon H
Introduction: Marc Jeschke, MD, PhD
Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada

Metabolism in the ICU: Lessons Learned (Abstract 16)
Greet Van den Berghe, MD, PhD
Catholic University of Leuven, Leuven, Belgium

12:30 PM – 1:30 PM  Lunch for Attendees
Salon F

12:30 PM – 1:30 PM  IFSS Council Meeting/Luncheon (invitation only)
Room 406

12:30 PM – 1:30 PM  LUNCHEON SEMINAR: Academic and Industrial Job Skills
Salon JK
Moderator: Deborah L. Carlson, PhD
University of Texas Southwestern Medical Center, Dallas, TX

12:30 PM – 12:40 PM  Opening Statement
Marc Jeschke, MD, PhD
Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada

12:40 PM – 12:57 PM  Interviewing Skills and CV Preparation that Stands Out
Daniel Remick, MD
Boston University School of Medicine, Boston, MA
Jennifer Kaplan, MD, MS
Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

12:58 PM – 1:15 PM  Negotiating a Start Up Package
Steven E. Wolf, MD
University of Texas Southwestern Medical Center, Dallas, TX

1:15 PM – 1:30 PM  Panel Discussion

1:30 PM – 3:10 PM  NEW INVESTIGATOR COMPETITION
Salon H
Moderator: Jennifer Kaplan, MD, MS
Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

1:30 PM – 1:45 PM  Retinoic Acid Improves Incidence and Severity of Necrotizing Enterocolitis by Lymphocyte Balance Restitution and Repopulation of LGR5+ Intestinal Stem Cells (Abstract 17)
Diego Nino, MD, PhD
Johns Hopkins University School of Medicine, Baltimore, MD
1:45 PM – 2:00 PM Location, Location, Location: The IL-6 Cytokine and Browning of White Adipose Tissue Post Burn Injury (Abstract 18)
Abdikarim Abdullahi, MS
University of Toronto and Sunnybrook Research Institute, Toronto, ON, Canada

2:00 PM – 2:15 PM Inflammatory Responses, Proteolysis and Muscle Wasting (MW) Reversal in Burn Injured (BI) Mice with GTS-21, a Specific Agonist for Nicotinic Acetylcholine Receptors (α7ACHRS) (Abstract 19)
Shizuka Kashiwagi, MD
Shriners Hospital for Children Boston, and Massachusetts General Hospital, Boston, MA

2:15 PM – 2:30 PM FLT3 Ligand Attenuates Adaptive Immune System Dysfunction during Burn Wound Sepsis (Abstract 20)
Naeem Patil, MD, PhD
Vanderbilt University Medical Center, Nashville, TN

2:30 PM – 2:45 PM Osteopontin Blockade Attenuates Renal Injury after Ischemia Reperfusion by Inhibiting NK Cell Infiltration (Abstract 21)
Cindy Cen, MD
Hofstra Northwell School of Medicine, Manhasset, NY

2:45 PM – 3:00 PM The AMPK Activator AICAR Ameliorates Age-Dependent Myocardial Injury in Murine Hemorrhagic Shock (Abstract 22)
Dzmitry Matsiukevich, MD
Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

3:00 PM – 3:10 PM Kupffer Cell Phenotype Alteration by Repeated Low Dose Endotoxin Contributes to Survive Against the Lethal Bacterial Infection (Abstract 23)
Hiromi Miyazaki, National Defense Medical College, Tokorozawa, Saitama, Japan

3:15 PM – 3:55 PM RESEARCH FELLOWSHIP RECIPIENT PRESENTATIONS
Salon H
Moderator: Jennifer Kaplan, MD, MS
Cincinnati Children’s Hospital Medical Center, Cincinnati, OH

3:15 PM – 3:35 PM Neuroradiologic and Histopathologic Correlates of Acute Brain Injury in a Murine Model of Sepsis
2015 Research Investigator Award for Early Scientists Award Winner
Diana Pang, MD
University of Pittsburgh, Pittsburgh, PA

3:35 PM – 3:55 PM The Role of Innate Immunity in Traumatic Brain Injury
2014 Research Fellowship for Early Career Faculty Investigators Award Winner
Steven Schwulst, MD
Assistant Professor of Surgery, Division of Trauma and Critical Care, Department of Surgery, Northwestern University, Chicago, IL

3:55 PM – 4:10 PM Refreshment Break
Salon H Foyer
PARALLEL SESSION I: MODS at 40: What is the Motor?
Moderators: John Marshall, MD, FRCSC
University of Toronto, Toronto, ON, Canada
Clifford Deutschman, MS, MD, FCCM
The Feinstein Institute for Medical Research, Manhasset, NY

4:10 PM – 4:25 PM
Preventing MODS by Restoring Host Immunity (Abstract 24)
Richard S. Hotchkiss, MD
Washington University School of Medicine, St. Louis, MO

4:25 PM – 4:40 PM
MODS: What’s the Role of the Endocrine System (Abstract 25)
Greet Van den Berghe, MD, PhD
Catholic University of Leuven, Leuven, Belgium

4:40 PM – 4:55 PM
The Gastrointestinal Tract (Abstract 26)
Craig M. Coopersmith, MD
Emory University School of Medicine, Atlanta, GA

4:55 PM – 5:10 PM
The Brain in the Pathogenesis of Sepsis and MODS (Abstract 27)
Clifford S. Deutschman, MS, MD
The Feinstein Institute for Medical Research, Manhasset, NY

5:10 PM – 5:25 PM
MODS: The Role of the Doctor (Abstract 28)
John Marshall, MD
St. Michael's Hospital, Toronto, ON, Canada

5:25 PM – 5:40 PM
Hypoxia-Inducible Factor (HIF)-1α is an Important Promoter of Inflammation and Injury following Aspiration-Induced Lung Injury in Mice (Abstract 29)
Suresh Madathilparambil, PhD
University of Michigan, Ann Arbor, MI

5:40 PM – 5:55 PM
Programmed Cell Death Receptor-1 (PD1) Modulates the Neonatal Murine Lungs in Response to Intra-Abdominal Polymicrobial Sepsis (Abstract 30)
Eleanor Fallon, MD
Brown University/Rhode Island Hospital, Providence, RI

5:55 PM – 6:10 PM
Simultaneous Roles of Extra- and Intrarenal Surfactant Protein D on Acute Kidney Injury Induced by Bacterial Pneumonia (Abstract 31)
Juan Du
SUNY Upstate Medical University, Syracuse, NY, and Renmin Hospital of Wuhan University, Wuhan, China

PARALLEL SESSION II: Elderly: Basic, Translational, and Clinical Studies to Improve Outcome of Elderly Patients
Moderators: Philip A. Efron, MD
University of Florida, Gainesville, FL
Marc Jeschke, MD, PhD
Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada

4:10 PM – 4:25 PM
Why are Outcomes of Burned Elderly so Poor? (Abstract 32)
Marc Jeschke, MD, PhD
Sunnybrook Health Sciences Centre and University of Toronto, Toronto, ON, Canada

4:25 PM – 4:40 PM
Cardiomyocyte Death and its Prevention during Invasive Pneumococcal Disease (Abstract 33)
Carlos J. Orihuela, PhD
The University of Alabama at Birmingham, Birmingham, AL
4:40 PM – 4:55 PM Aging, Inflamm-aging and the Pulmonary Response to Burn Injury (Abstract 34)
Elizabeth J. Kovacs, PhD
University of Colorado Denver, Aurora, CO

4:55 PM – 5:10 PM A Brief Summary of Translational Research Regarding the Aged Response to Sepsis and Trauma (Abstract 35)
Philip A. Efron, MD
University of Florida, Gainesville, FL

5:10 PM – 5:25 PM Interleukin 15 Reverses Age-Related Exhaustion of CD8+ T and NK Cells and Improves Survival of Aged Septic Mice (Abstract 36)
Shigeaki Inoue, MD, PhD, MSCI
Tokai University Hachioji Hospital, Hachioji, Japan

5:25 PM – 5:40 PM Co-Administration of Human Ghrelin and Growth Hormone Attenuates Sepsis-Induced Immunosuppression in Aged Rat (Abstract 37)
Mian Zhou, MD
The Feinstein Institute for Medical Research and Hofstra Northwell School of Medicine, Manhasset, NY

5:40 PM – 5:55 PM Klotho Suppresses the Inflammatory Response and Ameliorates Cardiac Dysfunction in Aging Endotoxemic Mice (Abstract 38)
Haipeng Hui, MD, PhD
University of Colorado Denver, Aurora, CO, and People’s Liberation Army General Hospital, Beijing, China

5:55 PM – 6:10 PM Aging Exaggerates Cardiac Dysfunction and Mortality during Sepsis through a TLR2-Dependent Mechanism: The Therapeutic Potential of IL-37 (Abstract 39)
Yufeng Zhai, MS
University of Colorado Denver, Aurora, CO

6:40 PM – 7:40 PM Reception
Salon H Foyer

7:40 PM – 9:40 PM Dinner
Salon H
New Investigator Competition and Travel Awards Ceremony
Tickets will be collected

MONDAY, JUNE 13, 2016

6:00 AM – 7:00 AM 32nd Annual Presidential Fun Run
Hotel Lobby
Organizers: Yoram Vodovotz, PhD
University of Pittsburgh, Pittsburgh, PA
Marcin Osuchowski, DVM, PhD
Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

7:00 AM – 1:00 PM Registration
Salon G Foyer

7:00 AM – 9:00 AM POSTER SESSION II: Abstracts 86-171
Salon FG
Continental Breakfast
<table>
<thead>
<tr>
<th>Time</th>
<th>Session Description</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:15 AM – 9:30 AM</td>
<td>Translating Neuromodulation into Molecular Medicine <em>(Abstract 40)</em></td>
<td>Luis Ulloa, PhD, Rutgers-New Jersey Medical School, Newark, NJ</td>
</tr>
<tr>
<td>9:30 AM – 9:45 AM</td>
<td>Reflex Control of the Inflammation <em>(Abstract 41)</em></td>
<td>Sangeeta Chavan, PhD, The Feinstein Institute for Medical Research, Manhasset, NY</td>
</tr>
<tr>
<td>9:45 AM – 10:00 AM</td>
<td>Regulation of Feeding by Vagal Sensing of Inflammatory Insults <em>(Abstract 42)</em></td>
<td>Laurent Gautron, PhD, University of Texas Southwestern Medical Center, Dallas, TX</td>
</tr>
<tr>
<td>10:00 AM – 10:15 AM</td>
<td>Translation of Vagal Therapeutics to Limit Injury-Induced Inflammation <em>(Abstract 43)</em></td>
<td>Todd Costantini, MD, University of California San Diego, San Diego, CA</td>
</tr>
<tr>
<td>10:15 AM – 10:30 AM</td>
<td>Activation of Brain AMPK Attenuates Inflammation in Sepsis <em>(Abstract 44)</em></td>
<td>Weng-Lang Yang, PhD, Hofstra Northwell School of Medicine and The Feinstein Institute for Medical Research, Manhasset, NY</td>
</tr>
<tr>
<td>10:30 AM – 10:45 AM</td>
<td>Neuroradiologic and Histopathologic Evidence of Brain Injury in a Murine Model of Sepsis <em>(Abstract 45)</em></td>
<td>Diana Pang, MD, University of Pittsburgh, Pittsburgh, PA</td>
</tr>
<tr>
<td>10:45 AM – 11:00 AM</td>
<td>The Effect of S14G-Humanin on Memory Impairment Induced by Severe Sepsis <em>(Abstract 46)</em></td>
<td>Marina Yamada, PhD, Nippon Medical School Chiba Hokusoh Hospital, Inzai, Japan, and Keio University School of Medicine, Shinjyuku, Japan</td>
</tr>
<tr>
<td>11:00 AM – 11:15 AM</td>
<td>Brain Cholinergic System Dysfunction and Neuroinflammation in Murine Sepsis Survivors <em>(Abstract 47)</em></td>
<td>Nahla Zaghloul, MD, The Feinstein Institute for Medical Research, Manhasset, NY, and Cohen Children’s Medical Center, Northwell Health, New Hyde Park, NY</td>
</tr>
<tr>
<td>11:15 AM – 11:30 AM</td>
<td>Optogenetic and Selective Pharmacological Stimulation of Brain Cholinergic Signaling Suppresses Pro-Inflammatory Cytokine Levels <em>(Abstract 48)</em></td>
<td>Valentin Pavlov, PhD, The Feinstein Institute for Medical Research, Manhasset, NY, and Hofstra Northwell School of Medicine, Hempstead, NY</td>
</tr>
</tbody>
</table>
9:15 AM – 11:30 AM PARALLEL SESSION IV: The Nexus of Metabolomics, Proteomics and Genomics...What does the Future Hold?
Moderators: David Hackam, MD, PhD
Johns Hopkins University, Baltimore, MD
Celeste Finnerty, PhD
The University of Texas Medical Branch at Galveston, Galveston, TX

9:15 AM – 9:30 AM Genomics and Transcriptomics in Personalized Medicine for Sepsis and Trauma (Abstract 49)
Lyle L. Moldawer, PhD
University of Florida, Gainesville, FL

9:30 AM – 9:45 AM The Genomic and Proteomic Response to Burn Injury (Abstract 50)
Celeste Finnerty, PhD
The University of Texas Medical Branch at Galveston, Galveston, TX

9:45 AM – 10:00 AM Genetic Polymorphisms to Promote Personalized Interventions after Injury (Abstract 51)
Jason Sperry, MD
University of Pittsburgh, Pittsburgh, PA

10:00 AM – 10:15 AM Computational Modeling in Critical Illness: From Data Deluge to Discovery (Abstract 52)
Yoram Vodovotz, PhD
University of Pittsburgh, Pittsburgh, PA

10:15 AM – 10:30 AM Transcriptomics for Sepsis Stratification (Abstract 53)
Hector Wong, MD
Cincinnati Children’s Hospital Medical Center and University of Cincinnati College of Medicine, Cincinnati, OH

10:30 AM – 10:45 AM Polymorphisms in Neonatal Surgical Infection (Abstract 54)
David Hackam, MD, PhD
Johns Hopkins University, Baltimore, MD

10:45 AM – 11:00 AM Discovery of a Memory Regulatory T Cell Response to Injury (Abstract 55)
Kazuma Yamakawa, MD
Brigham and Women’s Hospital/Harvard Medical School, Boston, MA

11:00 AM – 11:15 AM Post-Treatment with Recombinant Milk Fat Globule-EGF Factor 8 Reduces Inflammation in Neonatal Sepsis (Abstract 56)
Laura Hansen, MD
Hofstra Northwell School of Medicine and The Feinstein Institute for Medical Research, Manhasset, NY

11:15 AM – 11:30 AM Systems-Wide Modulation of Patients Immune Response to Surgery by Pre-Operative Immune Enhancing Nutrients (Abstract 57)
Brice Gaudilliere, MD, PhD
Stanford University, Palo Alto, CA

11:30 AM – 11:45 AM Refreshment Break
Salon H Foyer

11:45 AM – 12:45 PM Shock Society Business Meeting
Rosemary Kozar, PhD, MD, Shock Society President
Shock Trauma Center, University of Maryland, Baltimore, MD

12:45 PM Free Afternoon and Evening
TUESDAY, JUNE 14, 2016

7:00 AM – 4:00 PM  Registration
Salon G Foyer

7:00 AM – 9:00 AM  POSTER SESSION III: Abstracts 172-255
Continental Breakfast
Salon FG

9:15 AM – 11:30 AM  PARALLEL SESSION V: Cellular Therapeutics: Implications for Shock Therapy
Moderators: David Livingston, MD
Rutgers-New Jersey Medical School, Newark, NJ
Shibani Pati, MD, PhD
University of California San Francisco, San Francisco, CA
Salon H

9:15 AM – 9:35 AM  Mesenchymal Stem Cells Reverse Bone Marrow Dysfunction and Improve Lung
Healing Following Trauma and Hemorrhagic Shock and Stress  (Abstract 58)
David H. Livingston, MD
Rutgers-New Jersey Medical School, Newark, NJ

Shibani Pati, MD, PhD
University of California San Francisco, San Francisco, CA

9:55 AM – 10:15 AM  Genetically Modified Mesenchymal Stem Cells Versus Stem Cell Therapy Following
Trauma-Hemorrhage  (Abstract 60)
Irshad H. Chaudry, PhD
The University of Alabama at Birmingham, Birmingham, AL

10:15 AM – 10:35 AM  Clinical Development of an Adult Stem Cell Therapy for Treatment of Acute Injuries of
the Central Nervous System  (Abstract 61)
Robert Mays, PhD
Athersys, Inc., Shaker Heights, OH

10:35 AM – 10:45 AM  Questions/Answers

10:45 AM – 11:00 AM  Roles of Mesenchymal Stem Cells in Acute and Chronic Lung Injury through
Regulating Inflammation and Endogenous Airway Stem Cell Activation  (Abstract 62)
Qiao Shi, MD
SUNY Upstate Medical University, Syracuse, NY, and Renmin Hospital of Wuhan University,
Wuhan, China

11:00 AM – 11:15 AM  Intravenously Administered Adipose-Derived Mesenchymal Stem Cells Attenuates
Pulmonary Edema following Smoke Inhalation  (Abstract 63)
Koji Ihara, MD
University of Texas Medical Branch, Galveston, TX

11:15 AM – 11:30 AM  Novel TLR4 Inhibitor 2-Acetamidopyranoside Promotes the Growth & Differentiation
of Intestinal Stem Cells in Experimental Necrotizing Enterocolitis  (Abstract 64)
Laura Martin, MD
Johns Hopkins Hospital, Baltimore, MD
PARALLEL SESSION VI: Novel Mediators during Inflammation, Sepsis, Burn, and Hypermetabolism: Preclinical and Clinical Approaches
Moderators: Csaba Szabo, MD, PhD
University of Texas Medical Branch, Galveston, TX
Timothy Billiar, MD
University of Pittsburgh, Pittsburgh, PA

9:15 AM – 9:30 AM  Capase-11 in Sepsis: A Novel Therapeutic Target (Abstract 65)
Timothy R. Billiar, MD
University of Pittsburgh, Pittsburgh, PA

9:30 AM – 9:45 AM  Modulation of Hydrogen Sulfide Homeostasis Offers Novel Therapeutic Approaches for Sepsis and Burns (Abstract 66)
Csaba Szabo, MD, PhD
University of Texas Medical Branch, Galveston, TX

9:45 AM – 10:00 AM  Targeting Thrombospondin-1 and its Receptor CD47 to Improve Cell and Tissue Responses to Stress (Abstract 67)
David Roberts, PhD
Laboratory of Pathology, CCR, NCI, NIH Bethesda, MD

10:00 AM – 10:15 AM  Ectonucleotidases as Therapeutic Targets in Sepsis (Abstract 68)
George Hasko, MD, PhD
Rutgers-New Jersey Medical School, Newark, NJ

10:15 AM – 10:30 AM  Endocannabinoid Receptors as Novel Targets (Abstract 69)
Pal Pacher, MD, PhD
NIAAA, NIH, Rockville, MD

10:30 AM – 10:45 AM  Melanocortin-1 Receptor Polymorphism R163Q is Protective against Complicated Sepsis after Trauma (Abstract 70)
Max Seaton, MD
University of Maryland Medical Center, Baltimore, MD, and University of Washington, Seattle, WA

10:45 AM – 11:00 AM  Alum Pretreatment Improves Survival, Myelopoiesis and Neutrophil Function in Polymicrobial Neonatal Sepsis (Abstract 71)
Jaimar Rincon, MS
University of Florida, Gainesville, FL

11:00 AM – 11:15 AM  Neutrophil-Specific HMGB1 Ablation Protects the Liver from Ischemia/Reperfusion Injury by Blocking Neutrophil Extracellular Trap Formation (Abstract 72)
Hai Huang, MD
University of Pittsburgh, Pittsburgh, PA, and Huazhong University of Science and Technology, Wuhan, China

11:15 AM – 11:30 AM  Sepsis Derived Plasma Microvesicles Cause Immunosuppression in Recipient Effector Cells Due to Transfer of Epigenetic Regulators (Abstract 73)
Jon Wisler, MD
Ohio State University Medical Center, Columbus, OH

11:30 AM – 12:00 PM  Boxed Lunch
Salon H Foyer
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00 PM</td>
<td>ORAL PRESENTATIONS BY AND FOR NEW INVESTIGATORS</td>
<td>Moderators: Deborah L. Carlson, PhD, University of Texas Southwestern Medical Center, Dallas, TX, Kevin McConnell, MD, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH</td>
</tr>
<tr>
<td>12:00 PM</td>
<td>Mitochondrial Hypermetabolism in Skeletal Muscle of Burn Patients is Associated</td>
<td>John Ogunbileje, PhD, UTMB and Shriner’s Hospital for Children, Galveston TX</td>
</tr>
<tr>
<td></td>
<td>with Oxidative Stress and Proteolysis (Abstract P72)</td>
<td></td>
</tr>
<tr>
<td>12:15 PM</td>
<td>Unique Actions of MIF Versus D-DT (MIF-2) on Lethal Macrophage Subsets in Sepsis</td>
<td>Pathricia Tilstam, PhD, Yale School of Medicine, New Haven, CT</td>
</tr>
<tr>
<td>12:30 PM</td>
<td>Liver-Specific Genetic Absence of AMPKa1 Worsens Neutrophil Infiltration in Multiple Organs</td>
<td>Satoshi Kikuchi, MD, PhD, Cincinnati Children’s Hospital Medical Center, Cincinnati, OH</td>
</tr>
<tr>
<td></td>
<td>in Murine Sepsis (Abstract P171)</td>
<td></td>
</tr>
<tr>
<td>12:45 PM</td>
<td>Blockade of Programmed Death-Ligand 1 (PD-L1) Attenuates Shock/Sepsis Induced</td>
<td>Shumin Xu, MD, Department of Emergency Medicine and Critical Care, Shanghai East Hospital, Tong Ji University, Shanghai, China</td>
</tr>
<tr>
<td></td>
<td>Acute Lung Injury through Targeting Endothelial Cells but not Epithelial Cells</td>
<td></td>
</tr>
<tr>
<td>1:00 PM</td>
<td>Human Newborns Have an Altered Innate Immune Response when Compared to Healthy Adults</td>
<td>Brittany Mathias, MD, University of Florida, Gainesville, FL</td>
</tr>
<tr>
<td>1:15 PM</td>
<td>Mild Traumatic Brain Injury in Mice Mobilizes Mesenchymal Stem Cells into</td>
<td>Max Vaickus, BA, Boston University School of Medicine, Boston, MA</td>
</tr>
<tr>
<td></td>
<td>Circulation Compared to Tail Trauma – Role of Substance P (Abstract P74)</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>PLENARY SESSION III: Pro-Con Debate: Is Coagulopathy an Appropriate Therapeutic Target</td>
<td>Moderator: Daniel Remick, MD, Boston University School of Medicine, Boston, MA, Edward Sherwood, MD, PhD, Vanderbilt University Medical Center, Nashville, TN</td>
</tr>
<tr>
<td></td>
<td>during Critical Illness?</td>
<td></td>
</tr>
<tr>
<td>1:30 PM</td>
<td>Pro:</td>
<td>Matthew D. Neal, MD, University of Pittsburgh Medical Center, Pittsburgh, PA</td>
</tr>
<tr>
<td></td>
<td>Combating Coagulopathy in Critical Care: Bullseye not Windmill (Abstract 74)</td>
<td></td>
</tr>
<tr>
<td>2:00 PM</td>
<td>Con:</td>
<td>Hunter Moore, MD, University of Colorado Medical Center, Denver, CO</td>
</tr>
<tr>
<td></td>
<td>Correcting the Underlying Pathology not the Coagulopathy is the Optimal Strategy to</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Treating Hemorrhage and Septic Shock (Abstract 75)</td>
<td></td>
</tr>
</tbody>
</table>

Note: Please download a QR code reader app to your smart phone or computer prior to this session. The QR code reader app will allow rapid, one step voting about which group won the debate.
**2:00 PM – 2:30 PM**

**Pro:**
Is Coagulopathy an Appropriate Therapeutic Target for Severe Sepsis? *(Abstract 76)*
Mayuki Aibiki, MD, PhD
Ehime University Hospital, Tohon, Japan

**Con:**
Treating Coagulopathy in Critical Illness: The Primrose Path of Dalliance Tread *(Abstract 77)*
Robert D. Winfield, MD
University of Kansas Medical Center, Kansas City, KS

**2:30 PM – 3:00 PM**
Questions/Answers

**3:00 PM – 3:15 PM**
Refreshment Break

---

**3:15 PM – 5:15 PM PARALLEL SESSION VII: Why did all Sepsis Trials and Animal Studies Fail and What Can We do to Fix it?**

**Salon H**

**3:15 PM – 3:30 PM**
Can Immune Modulatory Therapies Improve Cellular Dysfunction and Lead to more Durable Sepsis Survival? *(Abstract 78)*
Matthew J. Delano, MD, PhD
University of Michigan, Ann Arbor, MI

**3:30 PM – 3:45 PM**
How Do We Incorporate a Decade of Human Genomic and Proteomic Information into Meaningful Biomarkers for Sepsis Trials? *(Abstract 79)*
Lyle L. Moldawer, PhD
University of Florida, Gainesville, FL

**3:45 PM – 4:00 PM**
Can We Refocus Clinical and Preclinical Sepsis Research into a Beneficial Adaptive Trial Design? *(Abstract 80)*
Sachin Yende, MD
University of Pittsburgh and Veterans Affairs Hospital, Pittsburgh, PA

**4:00 PM – 4:15 PM**
How Do We Optimize the Scientific Disparity between Mice and Men in Models of Inflammation and Sepsis? *(Abstract 81)*
Marcin Osuchowski, DVM, PhD
Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

**4:15 PM – 4:30 PM**
Relevance of Young Mice as Sepsis Models for Aged Humans with Comorbidities *(Abstract 82)*
Isaiah Turnbull, MD, PhD
Washington University, St. Louis, MO

**4:30 PM – 4:45 PM**
Compensatory Increase in Muscle Protein Synthesis during the Recovery Phase of Sepsis *(Abstract 83)*
Kristen Crowell, MD
Pennsylvania State University, College of Medicine, Hershey, PA

**4:45 PM – 5:00 PM**
RIP3 Mediates Inflammation and Mortality in Pseudomonas Aeruginosa Pneumonia *(Abstract 84)*
John Lyons, MD
Emory University, Atlanta, GA

**5:00 PM – 5:15 PM**
Questions/Answers

---

13
PARALLEL SESSION VIII: Adipose Tissue and Lipids and Novel Mediator of Outcomes
Moderator: Labros Sidossis, PhD
Departments of Medicine and Exercise Science, Rutgers University, New Brunswick, NJ
Melanie Scott, MD, PhD
University of Pittsburgh, Pittsburgh, PA

3:15 PM – 3:30 PM
Pathogen Lipid Clearance in Sepsis and the Role of PCSK9 (Abstract 85)
Keith Walley, MD
University of British Columbia and Centre for Heart Lung Innovation, Vancouver, BC, Canada

3:30 PM – 3:45 PM
Is Adipose Tissue White or Brown? It Depends (Abstract 86)
Labros Sidossis, PhD
Departments of Medicine and Exercise Science, Rutgers University, New Brunswick, NJ

3:45 PM – 4:00 PM
Leptin: A Beneficial Modulator of the Immune Response to Sepsis (Abstract 87)
Charles Caldwell, PhD
University of Cincinnati, Cincinnati, OH

4:00 PM – 4:15 PM
Aging and Adipose Tissue in Critical Illness (Abstract 88)
Marlene Starr, PhD
University of Kentucky, Lexington, KY

4:15 PM – 4:30 PM
DAMPs and PRRs Drive Inflammation in Obesity (Abstract 89)
Melanie Scott, MD, PhD
University of Pittsburgh, Pittsburgh, PA

4:30 PM – 4:45 PM
Metformin Treatment Improves Skeletal Muscle Protein Turnover in Severely Burned Children (Abstract 90)
Tony Chao, MS
University of Texas Medical Branch and Shriners Hospital for Children, Galveston, TX

4:45 PM – 5:00 PM
Chlorinated Lipids Elicit Endothelial Dysfunction and Are Produced during Sepsis (Abstract 91)
David Ford, PhD
Saint Louis University, St. Louis, MO

5:00 PM – 5:15 PM
Impact of Percent Body Fat (PBF) on Inflammatory Response to Injury in a Non-Human Primate (NHP) Model of Poly-Trauma and Hemorrhagic Shock (Abstract 92)
Heather Grossman, MS
Naval Medical Research Unit – San Antonio, Fort Sam Houston, TX

6:00 PM – 7:00 PM
Reception
Salon H Foyer

7:00 PM – 9:00 PM
Dinner
Scientific Achievements and Service Awards Ceremony
Tickets will be collected