

48th Annual Conference on Shock - Schedule

Saturday May 31, 2025

Time	Event
8:00 AM- 12:00 PM	Executive Committee Meetings
12:00 PM - 1:00 PM	Lunch Break (on your own)
1:00 PM - 1:05 PM	General Session Welcome and Introduction: Philip Efron MD, University of Florida, President, Shock Society (2024-2025)
1:05 PM - 2:30 PM	Plenary Session 1: Prehospital Trauma Resuscitation and Results of Recent Clinical Trials Session Chairs: Rosemary Kozar, MD, PhD, University of Maryland Manabu Kinoshita, MD, PhD, National Defense Medical College, Japan
1:05 PM - 1:23 PM	Invited Presentation: <i>Recent Clinical Trials of Blood Products for Prehospital Acute Trauma Resuscitation</i> - Jason Sperry, MD, MPH, University of Pittsburgh
1:23 PM - 1:41 PM	Invited Presentation: <i>Capillary Perfusing Targeting Oxygen Transfer in Prehospital Shock Resuscitation</i> , Martin Mangino, PhD, Virginia Commonwealth University
1:41 PM - 2:00 PM	Invited Presentation: <i>Role of Coagulation Factor Concentrates for Trauma Resuscitation</i> , Martin Schreiber, MD, Oregon Health & Science University
2:00 PM - 2:10 PM	Abstract Presentation: <i>DNAse Treatment Attenuates Serum Cell Free DNA After Polytrauma and Resuscitation (4285452)</i>
2:10 PM - 2:20 PM	Abstract Presentation: <i>Prehospital Administration of 25% Albumin or Plasma Maintains Mitochondrial Respiratory Capacity in Rats With Decompensated Hemorrhagic Shock (4291597)</i>
2:20 PM - 2:30 PM	Abstract Presentation: <i>Prehospital Lyophilized Cryoprecipitate Improves Coagulation Function and Blood Pressure Compared to Crystalloid in a Nonhuman Primate Hemorrhage Model (4291634)</i>
2:30 PM - 3:30 PM	Top Rated Abstracts Session Chairs: Philip Efron, MD, University of Florida Haichao Wang, PhD, The Feinstein Institutes for Medical Research, New York
2:30 PM - 2:42 PM	Abstract Presentation: <i>Mitigation of Acute Kidney Injury by Canagliflozin is Associated with Increased Apoptosis and Mitochondrial Fission in a Porcine Model of Hemorrhagic Shock</i> , Zaria Killingsworth, BA, Uniformed Services University of Health Sciences, Bethesda, Maryland
2:42 PM - 2:54 PM	Abstract Presentation: <i>Proteomic Analysis Reveals a Potential Severity Threshold for Gasmerdin D Activation Following Hemorrhagic Shock and Tissue Trauma</i> , Aileen Ritter, Dr Med, University of Pittsburgh
2:54 PM - 3:06 PM	Abstract Presentation: <i>Distinct Metabolic Signatures in Pediatric Sepsis: Insights into Pathophysiology and Biomarker Discovery</i> , Nora Wolff, MD, Children's National Hospital, Washington DC
3:06 PM - 3:18 PM	Abstract Presentation: <i>Red-shifted Optogenetic Stimulation of the Inflammatory Reflex Regulates Inflammation in Endotoxemia</i> , Kicheon Park, PhD, Northwell University, New York
3:18 PM - 3:30 PM	Abstract Presentation: <i>Increases in Monocyte Distribution Width Portend Spesis in Febrile Children Presenting to the Emergency Department</i> , Lael Yonker, MD, MGH Harvard University, Cambridge
3:30 PM - 4:00 PM	Refreshment Break
4:00 PM - 5:30 PM	Plenary Session 2: Compare and Contrast - Coagulopathy of Trauma, Burns, Sepsis, TBI Session Chairs: Hunter Moore, MD, PhD, Advent Health, Denver, Colorado Peter K. Moore, MD, University of Colorado Anschutz Medical Campus
4:00 PM - 4:20 PM	Invited Presentation: <i>Extracellular Vesicles in Coagulopathy</i> , Basilia Zingerelli, MD, PhD, Cincinnati Children's Hospital Medical Center
4:20 PM - 4:40 PM	Invited Presentation: <i>Role of Dysregulated Fibrinolysis in Multiple Disorders</i> , E.E. Moore, MD, University of Colorado
4:40 PM - 5:00 PM	Invited Presentation: <i>Pediatric Coagulopathy of Trauma and Sepsis</i> , Allison Nair, MD, University of California San Francisco
5:00 PM - 5:10 PM	Abstract Presentation: <i>Caspase-11 Inhibition Decreases Clot Formation and Increases Organ Damage Following Polytrauma (4282568)</i>
5:10 PM - 5:20 PM	Abstract Presentation: <i>Validation of Microfluidic Assessment of Hemostasis in Trauma-Induced Coagulopathy Using Existing Assays (4294558)</i>
5:20 PM - 5:30 PM	Abstract Presentation: <i>Dimethyl Sulfoxide Reduces Glycocalyx Shedding and Coagulopathy in a Rat Hemorrhage-Resuscitation Model (4294560)</i>

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5:30 PM - 6:30 PM	Presidential Address Presented By: Haichao Wang, Ph.D., The Feinstein Institutes for Medical Research, New York, President, Shock Society (2025-2026) Introduction: Philip Efron, MD, University of Florida, President, Shock Society (2024-2025)
6:30 PM - 7:30 PM	Welcome Reception
7:30 PM - 9:00 PM	Mentoring Workshop Session Chairs: Kalev Freeman, MD, PhD, University of Vermont Marcin Osuchowski, DVM, PhD, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology, Vienna, Austria

Sunday, June 1, 2025

Time	Event
7:30 AM - 9:00 AM	Poster Session 1 (Computational Sciences/Artificial Intelligence/Big Data/Precision Medicine; Immunology/Inflammation; Military, Disaster, and Prehospital Medicine; Neuro-Immune Crosstalk; Sepsis)
7:30 AM - 9:00 AM	Breakfast
9:00 AM - 10:40 AM	Plenary Session 3: Military, Disaster and Austere Environments - Novel Blood Products and Resuscitative Adjuncts Session Chairs: CAPT Jacob Glaser, MD, US Navy Reserve COL Martin Schreiber, MD, US Army Reserve
9:00 AM - 9:20 AM	Invited Presentation: <i>White Blood Cell Membrane-Coated Nanoparticles: Recent Development and Medical Applications</i> , Liangfang Zhang, PhD, University of California San Diego
9:20 AM - 9:40 AM	Invited Presentation: <i>Oxygen Carriers and Artificial Blood - Where are We?</i> , Allan Doctor, MD, University of Maryland School of Medicine
9:40 AM - 10:00 AM	Invited Presentation: <i>Tranexamic Acid in Acute Trauma – Beyond Hemostasis</i> , Joseph F. Rappold, MD, CAPT, US Navy (Retired), Maine Medical Center, Tufts University School of Medicine
10:00 AM - 10:20 AM	Invited Presentation: <i>Blood Requirements for Military and Disaster Scenarios</i> , Noah M. Igra, MD, Maimonides Medical Center, Brooklyn, New York
10:20 AM - 10:30 AM	Abstract Presentation: <i>Effects of Chemokine (C-C Motif) Receptor 1 Antagonist BX471 During Resuscitation from Hemorrhagic Shock (4283146)</i>
10:30 AM - 10:40 AM	Abstract Presentation: <i>Hemorrhagic Shock Impairs Oxygen Diffusion Independent of Altered Oxygen Delivery (4291518)</i>
10:30 AM - 11:00 AM	Refreshment Break
11:00 AM - 12:00 PM	Keynote Presentation: Decoding the Resolution Response in Inflammation Uncovers Novel Pro-Resolving Mediators that Reduce Infectious Inflammation, Pain and Protect Organs Presented By: Professor Charles N. Serhan, PhD, DSc, Simon Gelman Professor of Anaesthesia (Biochemistry and Molecular Pharmacology), Harvard Medical School, Cambridge, Massachusetts Introduction: Anthony E. Pusateri, PhD, 59th Medical Wing, Lackland Air Force Base, San Antonio, Texas
12:00 PM - 1:00 PM	Box Lunch
12:00 PM - 1:00 PM	Presentations by and for Young Investigators Session Chairs: Matthew Alves, University of Florida Kartik Rajagopalan, MD, PhD, UT Southwestern Medical Center, Dallas, Texas
12:00 PM - 12:12 PM	Abstract Presentation: <i>Screening for Sepsis: Novel Use of a Clinically-Validated Glycosaminoglycan Assay Distinguishes Septic Shock from Control Patients (4268306)</i>
12:12 PM - 12:24 PM	Abstract Presentation: <i>EV-Mediated Immunomodulation Attenuates Sepsis-Induced Acute Lung Injury (4281037)</i>
12:24 PM - 12:36 PM	Abstract Presentation: <i>Peri-Injury Monocyte Depletion Alters Long-Term Gene Expression Within Microglia After TBI (4292199)</i>
12:36 PM - 12:48 PM	Abstract Presentation: <i>Snooze or Lose: Sleep Interruption Exacerbates Sepsis in Mice, Via a Short-Lived, TLR2-Dependent Mechanism (4293257)</i>
12:48 PM - 1:00 PM	Abstract Presentation: <i>Early Elevation in MDSC Counts in Severe Trauma Patients Not Associated With Clinical Outcomes (4294209)</i>

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1:00 PM - 2:00 PM	State of the Journal - Most Downloaded Papers Session Chairs: Daniel Remick, MD, Boston University, Editor in Chief of the SHOCK Journal Julia Bohannon, PhD, Vanderbilt University, Tennessee
1:00 PM - 1:20 PM	<i>Shock Journal Update 2025</i> , Daniel Remick, M.D. Editor-in-Chief, Shock, Boston University Chobanian and Avedisian School of Medicine
1:20 PM - 1:32 PM	Most Downloaded Paper Presentation: <i>Inhibition of Integrin VLA-3 and Tetraspanin CD151 Protects Against Neutrophil-mediated Endothelial Damage</i> , Jonathan Reichner, PhD, Department of Surgery, Rhode Island Hospital and Brown University
1:32 PM - 1:44 PM	Most Downloaded Paper Presentation: <i>Applying Transcriptomics and AI to the Bedside, a Journey in Sepsis Dynamics</i> , Asrar Rashid, MBChB, PhD, MBA, Department Pediatric Intensive Care and Health Informatics and Digitisation, NMC Royal Hospital, Khalifa City, Abu Dhabi, United Arab Emirates
1:44 PM - 1:56 PM	Most Downloaded Paper Presentation: <i>Angiotensin II in the Treatment of Distributive Shock: a Systematic Review and Meta-analysis</i> , Eleni Xourgia, MD, MSc, University Clinic for Emergency Medicine, Inselspital, University of Bern, Bern, Switzerland
2:00 PM - 3:00 PM	New Investigator Competition Session Chairs: Lauren Moffatt, PhD, Medstar Health Research Institute, Washington, DC Monowar Aziz, PhD, Feinstein Institutes for Medical Research, Northwell Health
2:00 PM - 2:12 PM	Abstract Presentation: <i>Spices to Combat Sepsis - Curcumin Piperin Combination Increases Survival and Modulates Immune Response in Two-Hit Trauma Model (4289476)</i>
2:12 PM - 2:24 PM	Abstract Presentation: <i>Microglia Depletion Attenuates Immune Cell Chemotaxis After Traumatic Brain Injury in Aged Mice (4291226)</i>
2:24 PM - 2:36 PM	Abstract Presentation: <i>Reinforcement Learning-Guided Resuscitation: Comparing AI-Derived Strategies to Observed ICU Practice (4291692)</i>
2:36 PM - 2:48 PM	Abstract Presentation: <i>Can the Initiation M1/M2 Macrophages Ratio Predict the Long-Term Cognitive Function in Older Sepsis Survivors? (4292009)</i>
2:48 PM - 3:00 PM	Abstract Presentation: <i>Targeted Hepatic MCJ Inhibition Mitigates Post-Surgical Liver Injury and Neuroinflammation in Aged Mice (4294445)</i>
3:00 PM - 3:30 PM	Refreshment Break
3:30 PM - 4:30 PM	Research Award Presentations Session Chairs: Lauren Moffatt, PhD, Medstar Health Research Institute, Washington, DC Monowar Aziz, PhD, Feinstein Institutes for Medical Research, Northwell Health
3:30 PM - 3:45 PM	Japan Shock Society Award Presentation: <i>Life/working Styles of Women Surgeons in Japan and the World</i> , Kumiko Sekiguchi, MD, Nippon Medical School Musashikosugi Hospital, Kanagawa, Japan
3:45 PM - 4:00 PM	Japan Shock Society Award Presentation: <i>Persistent Inflammation, Immuno-suppression and Catabolism Syndrome</i> , Dr. Azusa Kato, Japan
4:00 PM - 4:15 PM	Research Investigator Award Presentation: <i>Novel Role of Lactate in MDSC-mediated Immunosuppression in Sepsis</i> , Min Fan, MD, PhD, East Tennessee State University
4:15 PM - 4:30 PM	Faculty Research Award Presentation: <i>Macrophage-Derived Factor XIII-A: Roles in Inflammation and Repair after Acute Lung Injury</i> , Peter K. Moore, MD, University of Colorado
4:30 PM - 6:30 PM	Plenary Session 4: Burn Resuscitation Session Chairs: Jeffrey Shupp, MD, Georgetown University, Maryland and Medstar Health, Washington, DC Julia Bohannon, PhD, Vanderbilt University, Tennessee
4:30 PM - 4:48 PM	Invited Presentation: <i>Contemporary Understanding of the Systemic Response to Burn Injury: What to Know to Improve Resuscitation Strategies</i> , Vanessa Nomellini, MD, PhD, University of Texas Southwestern Medical Center
4:48 PM - 5:06 PM	Invited Presentation: <i>Early FFP Resuscitation in Acute Burns: Experience, Efficacy, and Safety</i> , Arek Wiktor, MD, University of Colorado
5:06 PM - 5:24 PM	Invited Presentation: <i>Burn Induced Endothelial and Immune Dysfunction: Looking for Potential Therapies</i> , John Kubasiak, MD, Loyola University of Chicago

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5:24 PM - 5:42 PM	Invited Presentation: <i>Bundles of Joy? The Function of Extracellular Vesicles After Burn Injury</i> , Robert Maile, PhD, University of Florida
5:42 PM - 6:00 PM	Invited Presentation: <i>Coagulation Homeostasis After Burn Injury and Plasma Inclusive Resuscitation: The First 48 Hours</i> , Maria Christina Bravo, PhD, University of Vermont
6:00 PM - 6:10 PM	Abstract Presentation: <i>Burns Accelerate Biological Aging and Increase the Epigenetic Risk of Frailty and Mortality (4291666)</i>
6:10 PM - 6:20 PM	Abstract Presentation: <i>Burn Patients with Hemoglobin Levels >6.5 g/dL are at Notable Risk for Adverse Events After Asministration of Blood Transfusion - an Analysis with Real World Data (4292255)</i>
6:20 PM - 6:30 PM	Abstract Presentation: <i>Rapamycin Enhances Trained Immunity and Improves Mortality in a Murine Model of Burn Trauma (4294147)</i>
6:30 PM - 8:00 PM	Demystifying the NIH Application Process Session Chair: Craig Coopersmith, MD, Emory University School of Medicine, Atlanta, GA
6:30 PM - 6:50 PM	Invited Presentation: <i>Writing the Research Plan</i> , Myung S. Park, MD, MS, Rochester, Minnesota
6:50 PM - 7:10 PM	Invited Presentation: <i>Every Part of the Grant That is Not the Research Plan</i> , Melanie Scott, MD, PhD, University of Pittsburgh, Pennsylvania
7:10 PM - 7:30 PM	Invited Presentation: <i>What Happens in the Room – How Does the Grant Review Process Work at Study Section</i> , Jennifer Kaplan, MD, MS, Cincinnati Children's Hospital, Cincinnati, Ohio
7:30 PM - 7:50 PM	Invited Presentation: Responding to Summary Statement, Craig Coopersmith, MD, Emory University School of Medicine, Atlanta, Georgia
7:50 PM - 8:00 PM	Discussion

Monday, June 2, 2025

Time	Event
6:00 AM - 7:30 AM	Fun Run Event Chairs: Wendy Walker, PhD, Mercer University, Georgia Elisabetta Liverani, PhD, North Dakota State University
7:30 AM - 9:00 AM	Poster Session 2 (Burn Injuries/Heat Stroke; Sepsis; Traumatic Brain Injury and Neuro-Inflammation; Treatments; Vascular Biology/Endothelium/Coagulation)
7:30 AM - 9:00 AM	Breakfast
9:00 AM - 10:30 AM	Parallel Session 1a: Systems Biology, Computational and AI Approaches to Trauma, Burns and Sepsis Research Session Chairs: Mitchell J. Cohen, MD, University of Colorado Rishikesan Kamaleswaran, PhD, Duke University, North Carolina
9:00 AM - 9:20 AM	Invited Presentation: <i>Plasma Omics Reflect and Predict Trauma Patient Trajectories and Outcomes</i> , Christopher Erickson, PhD, University of Colorado
9:20 AM - 9:40 AM	Invited Presentation: <i>Controlling Coagulation: Towards Automated Coagulation Control</i> , Amor Menzes, PhD, University of Florida
9:40 AM - 10:00 AM	Invited Presentation: <i>Cosmic Stress: What Spaceflight Teaches Us About Mitochondrial Breakdown, Shock, and Injury Response</i> , Afshin Beheshti, PhD, University of Pittsburgh
10:00 AM - 10:10 AM	Abstract Presentation: <i>Trajectory Analysis Reveals Dampened Serum CCL17 in Acute Respiratory Distress Syndrome Development Following Traumatic Injury or Surgery (4279666)</i>
10:10 AM - 10:20 AM	Abstract Presentation: <i>Single Cell Transcriptomics Reveals Dysfunction and Hypometabolic CXCR4HI IL7RLO Effector CD8 T Cells that are Unique to Human Critical Illness (4291103)</i>
10:20 AM - 10:30 AM	Abstract Presentation: <i>Decreased Whole-Body Mitochondrial Energy Metabolism Identified by Metabolomics and Transcriptomic Analyses in Long-Term Sepsis Survivors (4294595)</i>

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Time	Event
9:00 AM - 10:30 AM	Parallel Session 1b: The Gut in Traumatic Hemorrhage, Burn, TBI, and Sepsis Session Chairs: Mashkoor A. Choudhry, Ph.D., Loyola University of Chicago Steven J. Schwulst, MD, Northwestern University, Chicago, Illinois
9:00 AM - 9:20 AM	Invited Presentation: <i>Gut-Brain Axis after Burn Injury</i> , Elizabeth J. Kovacs, PhD, University of Colorado Denver Anschutz Medical Campus
9:20 AM - 9:40 AM	Invited Presentation: <i>microRNA at the Intersection of Microbiome and Gut Homeostasis Following Alcohol and Burn Injury</i> , Mashkoor A. Choudhry, Ph.D., Loyola University of Chicago
9:40 AM - 10:00 AM	Invited Presentation: <i>Gut-Brain Axis in TBI</i> , Steven J. Schwulst, MD, Northwestern University, Chicago, Illinois
10:00 AM - 10:10 AM	Abstract Presentation: <i>A Multi-Omics Approach Exploring the Gut-Liver Axis Following Combined Radiation Exposure and Burn Injury in a Sinclair Minipig Model (4275784)</i>
10:10 AM - 10:20 AM	Abstract Presentation: <i>Gut Microbiota Modulation Restores Immunosuppressive Cells and IgA Secretion in a Gut Microbiota Depletion Model (4282324)</i>
10:20 AM - 10:30 AM	Abstract Presentation: <i>Fecal Microbiota Transfer with Stool from Human IBD Patients Results in Neuroinflammation and Anxiety-Like Behavior In Mice (4285959)</i>
10:30 AM - 11:00 AM	Refreshment Break
11:00 AM - 12:30 PM	Parallel Session 2a: Platelets in Trauma and Sepsis Session Chairs: Lucy Kornblith, MD, University of California San Francisco Elisabetta Liverani, PhD, North Dakota State University
11:00 AM - 11:20 AM	Invited Presentation: <i>Post-injury Platelet Biology</i> , Lucy Kornblith, MD, University of California San Francisco
11:20 AM - 11:40 AM	Invited Presentation: <i>Cold-stored Platelets in Trauma Transfusion</i> , Matthew D. Neal, MD, University of Pittsburgh, Pennsylvania
11:40 AM - 12:00 PM	Invited Presentation: <i>Sex Differences in Platelet Function During Sepsis</i> , Elisabetta Liverani, PhD, North Dakota State University
12:00 PM - 12:10 PM	Abstract Presentation: <i>Evaluation of Stored Platelet Resuscitation Using a Microfluidic Bleeding Chip (4285997)</i>
12:10 PM - 12:20 PM	Abstract Presentation: <i>Utilizing Static and Flow Assays to Assess Safety of Synthetic Platelets Ex Vivo (4291821)</i>
12:20 PM - 12:30 PM	Abstract Presentation: <i>Extreme Changes in Platelet Aggregation with NEFA and Extracellular ATP Scavenging (4291902)</i>
11:00 AM - 12:30 PM	Parallel Session 2b: Novel Hypotheses, Models and Approaches in Shock Research Session Chairs: Vanessa Nomellini, MD, PhD, UT Southwestern Medical Center, Dallas, Texas Marlene Starr, PhD, University of Kentucky
11:00 AM - 11:20 AM	Invited Presentation: <i>Getting with the Times: Moving from Rodents to Humans or Large Animal Models</i> , Marlene Starr, PhD, University of Kentucky
11:20 AM - 11:40 AM	Invited Presentation: <i>Nonhuman Primate Models for the Study of Human-derived Blood Products in Hemorrhagic Shock and Trauma</i> , Clifford G. Morgan, PhD, Naval Medical Research Unit San Antonio, JBSA Fort Sam Houston, Texas
11:40 AM - 12:00 PM	Invited Presentation: <i>Normothermic Regional Perfusion in Organ Donors to Study the Effects of Coagulation on Circulatory Arrest and Post Reperfusion on Abdominal Organs</i> , Hunter Moore, MD, PhD, Advent Health, Denver, Colorado
12:00 PM - 12:10 PM	Abstract Presentation: <i>Development and Validation of a Novel Lapine Model of Acute Trauma-Induced Coagulopathy (TIC) (4288364)</i>
12:10 PM - 12:20 PM	Abstract Presentation: <i>A Novel Multiple DAMPS Scavenger Ameliorates Lethal Sepsis (4288453)</i>
12:20 PM - 12:30 PM	Abstract Presentation: <i>Free Oligosaccharides Reveal Organ-Specific Endoplasmic Reticulum Stress in Polytrauma (4294444)</i>
12:30 PM - 1:30 PM	Shock Society Meeting of Members
1:30 PM - 5:00 PM	Free Afternoon/Committee Meetings

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Tuesday, June 3, 2025

Time	Event
7:30 AM - 9:00 AM	Poster Session 3 (Acute Lung Injury; Hemorrhagic Shock, Resuscitation and Transfusion; Novel Technologies and Approaches to Study Shock Pathophysiology, Outcomes and Treatments; Trauma; Other)
7:30 AM - 9:00 AM	Breakfast
9:00 AM - 10:30 AM	Parallel Session 3a: Neuroendocrine-Immune Axis in Shock and Sepsis Session Chairs: Judith Hellman, MD, University of California San Francisco Kartik Rajagopalan, MD, PhD, UT Southwestern Medical Center, Dallas, Texas
9:00 AM - 9:20 AM	Invited Presentation: <i>Modulation of Peripheral Inflammation by Endovanilloid and Endocannabinoids - CNS - Mediated Anti-inflammatory Effects</i> , Judith Hellman, MD, University of California San Francisco
9:20 AM - 9:40 AM	Invited Presentation: <i>Sepsis-Associated Brain Injury</i> , Raj Aneja MD, Division of Pediatric Critical Care Medicine and Safar Center for Resuscitation Research, UPMC Children's Hospital of Pittsburgh
9:40 AM - 10:00 AM	Invited Presentation: <i>The Host Response Highway: Endocrine, Immune and Neural Interactions in Sepsis</i> , Clifford S. Deutschman, MS, MD, Hofstra-Northwell School of Medicine and Feinstein Institutes for Medical Research, Manhasset, New York
10:00 AM - 10:10 AM	Abstract Presentation: <i>Nociceptor Alpha 7 Nicotinic Acetylcholine Receptor Activation Blunts Nuclear HMGB1 Release, Which Attenuates Inflammation (4283176)</i>
10:10 AM - 10:20 AM	Abstract Presentation: <i>Immunoregulation by Sympathetic (Splanchnic) Nerves (4292375)</i>
10:20 AM - 10:30 AM	Abstract Presentation: <i>Neuromodulation of Celiac-Superior Mesenteric Ganglion Complex Using Focused Ultrasound and Optogenetics Regulates Inflammation (4293141)</i>
9:00 AM - 10:30 AM	Parallel Session 3b: Phenotypes, Endotypes and Precision Medicine Session Chairs: Scott C. Brakenridge, MD, University of Washington Rishikesan Kamaleswaran, PhD, Duke University, North Carolina
9:00 AM - 9:20 AM	Invited Presentation: <i>Omics Bioinformatics Approaches</i> , Douglas Brubaker, PhD, Case Western Reserve University, Cleveland, Ohio
9:20 AM - 9:40 AM	Invited Presentation: <i>Use of In Silico Models to Identify FDA Approved Therapeutics to Target Specific Neutrophil Phenotypes in Sepsis - a Precision Medicine Approach</i> , Laurie Kilpatrick, PhD, Temple University, Philadelphia, Pennsylvania
9:40 AM - 10:00 AM	Invited Presentation: <i>Vascular Endothelial Endotypes in Sepsis</i> , Eric Schmidt, MD, Massachusetts General Hospital, Boston, Massachusetts
10:00 AM - 10:10 AM	Abstract Presentation: <i>Defining Thrombocytopenia-Associated Multiple Organ Failure in the Plasma Proteome (4291288)</i>
10:10 AM - 10:20 AM	Abstract Presentation: <i>Machine Learning Prediction of Outcome in Pediatric Sepsis (4291824)</i>
10:20 AM - 10:30 AM	Abstract Presentation: <i>Evaluating Performance of the SepStratifier Algorithm in Pediatric Septic Shock (4294304)</i>
10:30 AM - 11:00 AM	Refreshment Break
11:00 AM - 12:30 PM	Parallel Session 4a: Immune and Cellular Dysfunction in Sepsis Session Chair: Samithamby Jeyaseelan, DVM, PhD, Louisiana State University
11:00 AM - 11:20 AM	Invited Presentation: <i>Generation of Chronic Innate Exhaustion Memory and Long-term Disease Complications of Sepsis</i> , Liwu Li, PhD, Virginia Tech University
11:20 AM - 11:40 AM	Invited Presentation: <i>Alcohol, Sepsis and Drunk Macrophages</i> , Vidula Vachharanjani, MD, Cleveland Clinic, Cleveland, Ohio
11:40 AM - 12:00 PM	Invited Presentation: <i>Cellular Senescence in Sepsis</i> , Raghavan Pillai Raju, PhD, Medical College of Georgia, Augusta, Georgia
12:00 PM - 12:10 PM	Abstract Presentation: <i>Interferon-Gamma Drives Harmful Hyperinflammatory Responses in a Murine Model of Sepsis (4281328)</i>
12:10 PM - 12:20 PM	Abstract Presentation: <i>Ethanol-Induced Changes in CD103 Expression and Function May Contribute to Immune Dysregulation in Sepsis (4282994)</i>
12:20 PM - 12:30 PM	Abstract Presentation: <i>A Novel IL1R2-ENO1 Interaction Inhibits Glycolysis-Mediated Pyroptosis and Protects Against Lethal Sepsis (4294522)</i>

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11:00 AM - 12:30 PM	Parallel Session 4b: Endotheliopathy Mechanisms and Resuscitating the Endothelium Session Chairs: Kalev Freeman, MD, PhD, University of Vermont Jessica C. Cardenas, PhD, University of Colorado
11:00 AM - 11:20 AM	Invited Presentation: <i>Defining the Endotheliopathy of Hemorrhagic Shock and Trauma with an Eye on the Acute Response of the Epithelium to Injury</i> , Alison B. Nair, MD, University of California San Francisco
11:20 AM - 11:40 AM	Invited Presentation: <i>Current Model of SHINE Endotheliopathy Driving Progressive Organ Failure, Mortality and Therapeutic Strategies</i> , Kalev Freeman, MD, PhD, University of Vermont
11:40 AM - 12:00 PM	Invited Presentation: <i>Emerging Role of Endothelial Metabolism in Endotheliopathy and Coagulopathy of Trauma</i> , Olan Jackson-Weaver, PhD, Tulane School of Medicine, New Orleans, Louisiana
12:00 PM - 12:10 PM	Abstract Presentation: <i>Conformational Activation of Von Willebrand Factor Mediates the Endotheliopathy of Trauma in Hemorrhagic Shock Patients (4292006)</i>
12:10 PM - 12:20 PM	Abstract Presentation: <i>Distinct Patterns of Rapid Extracellular Vesicle Release and Fast Plasma Membrane Movement in Endothelial Cells are Produced by Histone Exposure (4294480)</i>
12:20 PM - 12:30 PM	Abstract Presentation: <i>Hyaluronin-CD44 Signalling in Trauma-Induced Coagulopathy (4294535)</i>
12:30 PM - 1:30 PM	Boxed Lunch
12:30 PM - 1:30 PM	Value of Diversity in Medical Education and Shock Research Session Chairs: Wendy Walker, PhD, Mercer University, Georgia Myung S. Park, MD, MS, Rochester, Minnesota Invited Presentation: <i>Value of Diversity in Medical Education</i> , Priya Sinha Garg, MD, Boston University, Massachusetts
1:30 PM - 2:30 PM	Update on DoD and NIH Funding Session Chair: Scott C. Brakenridge, MD, University of Washington
1:30 PM - 1:50 PM	Invited Presentation: <i>Priorities and Opportunities in NIGMS Funding Programs</i> , Rochelle Long, PhD, National Institute of General Medical Sciences, Bethesda, Maryland
1:50 PM - 2:30 PM	Panel Session: <i>Scientific Funding Challenges and Strategies</i> , Timothy R. Billiar, MD, University of Pittsburgh; Laurie Kilpatrick, PhD, Temple University, Philadelphia, Pennsylvania; Rochelle Long, PhD, National Institute of General Medical Sciences, Bethesda, Maryland; Adam Gerber, MD, PhD, Octapharma USA, Paramus, New Jersey; Others to be Announced
2:30 PM - 3:00 PM	Refreshment Break
3:00 PM - 5:00 PM	Plenary Session 5: Everything Extracorporeal: A Translational Look at ECMO Session Chairs: Linda Sousse, PhD, Institute for Extracorporeal Life Support, San Antonio, Texas Jared Gallaher, MD, MPH, University of North Carolina, Chapel Hill, North Carolina
3:00 PM - 3:20 PM	Invited Presentation: <i>ECMO Growth and Challenges: Patient Selection and Access</i> , David Furfaro, MD, Harvard University, Boston, MA
3:20 PM - 3:40 PM	Invited Presentation: <i>Optimizing Access to and Delivery of ECMO: Building the Real Bridges</i> , Anna Condella, MD, University of Washington, Seattle, WA
3:40 PM - 4:00 PM	Invited Presentation: <i>The Use of AI in ECMO and Extracorporeal Therapies</i> , Linda Sousse, PhD, Institute for Extracorporeal Life Support, San Antonio, Texas
4:00 PM - 4:20 PM	Invited Presentation: <i>The Bleeding Edge: ECMO and Anticoagulation in Trauma</i> , Jared Gallaher, MD, University of North Carolina, Chapel Hill, North Carolina
4:20 PM - 4:40 PM	Invited Presentation: <i>Use of VA ECMO in Severe Environmental Hypothermia</i> , Sydney Hansen, MD, University of Minnesota, Minneapolis
4:40 PM - 4:50 PM	Abstract Presentation: <i>A Novel Multi-DAMP Scavenger OP18 Attenuates Gut Ischemia/Reperfusion-Induced Lung Injury (4286876)</i>
4:50 PM - 5:00 PM	Abstract Presentation: <i>Oncostatin-M Drives Capillary Leak In Critically Ill Via Novel JAK1/JNK/AP-1 Signalling and Junction Remodelling (4290344)</i>

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Time	Event
6:00 PM - 6:30 PM	Cocktail Reception
6:30 PM - 9:00 PM	<p>Dinner and Awards Banquet</p> <p>Brief Remarks: <i>48th Annual Conference on Shock Thank You and Closing Remarks</i> , Anthony E. Pusateri, PhD, 59th Medical Wing, Lackland Air Force Base, San Antonio, Texas, Shock Society Scientific Program Chair (2025)</p> <p>Awards Presentation Chairs:</p> <p>Lauren T. Moffatt, PhD, Medstar Health Research Institute, Washington, DC</p> <p>Monowar Aziz, PhD, Feinstein Institutes for Medical Research, Northwell Health</p> <p>Awards Presentations: Awardees to be announced</p>