

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
1:05 PM - 2:30 PM	Plenary Session 1: Prehospital Trauma Resuscitation and Results of Recent Clinical Trials Invited Presentation: <i>Recent Clinical Trials of Blood Products for Prehospital Acute Trauma Resuscitation</i> - Jason Sperry, MD, MPH, University of Pittsburgh Invited Presentation: <i>Capillary Perfusing Targeting Oxygen Transfer in Prehospital Shock Resuscitation</i> , Martin Mangino, PhD, Virginia Commonwealth University Invited Presentation: <i>Role of Coagulation Factor Concentrates for Trauma Resuscitation</i> , Martin Schreiber, MD, Oregon Health & Science University Oral Abstract Presentations TBD
2:30 PM - 3:30 PM	Top Rated Abstracts 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 Abstract Presentation: <i>Proteomic Analysis Reveals a Potential Severity Threshold for Gasmerdin D Activation Following Hemorrhagic Shock and Tissue Trauma</i> , Erika Ong, MD, University of Pittsburgh, Pennsylvania 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 Abstract Presentation: <i>Red-shifted Optogenetic Stimulation of the Inflammatory Reflex Regulates Inflammation in Endotoxemia</i> , Kicheon Park, PhD, Northwell University, New York 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, Massachussets
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 Invited Presentation: <i>Extracellular Vesicles in Coagulopathy</i> , Basilia Zingerelli, MD, PhD, Cincinnati Children's Hospital Medical Center Invited Presentation: <i>Role of Dysregulated Fibrinolysis in Multiple Disorders</i> , E.E. Moore, MD, University of Colorado Invited Presentation: <i>Pediatric Coagulopathy of Trauma and Sepsis</i> , Allison Nair, MD, University of California San Francisco Oral Abstract Presentations TBD
5:30 PM - 6:30 PM	Presidential Address Introduction: Philip Efron, MD, University of Florida Haichao Wang, Ph.D., The Feinstein Institute for Medical Research, New York
6:30 PM - 7:30 PM	Welcome Reception
7:30 PM - 9:00 PM	Mentoring Workshop
Moderators: 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
7:30 AM - 9:00 AM	Breakfast
9:00 AM - 10:30 AM	Plenary Session 3: Military, Disaster and Austere Environments - Novel Blood Products and Resuscitative Adjuncts Invited Presentation: <i>White Blood Cell Membrane-Coated Nanoparticles: Recent Development and Medical Applications</i> , Liangfang Zhang, PhD, University of California San Diego Invited Presentation: <i>Oxygen Carriers and Artificial Blood - Where are We?</i> , Allan Doctor, MD, University of Maryland School of Medicine 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 Invited Presentation: <i>Blood Requirements for Military and Disaster Scenarios</i> , Noah M. Igra, MD, Maimonides Medical Center, Brooklyn, New York Oral Abstract Presentations TBD
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 , 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
12:00 PM - 1:00 PM	Box Lunch
12:00 PM - 1:00 PM	Presentations by and for Young Investigators Presentations TBD
1:00 PM - 2:00 PM	State of the Journal - Most Downloaded Papers
Moderators: Daniel Remick, MD, Boston University, Editor in Chief of the SHOCK Journal	<i>Shock Journal Update 2025</i> , Daniel Remick, M.D. Editor-in-Chief, Shock, Boston University Chobanian and Avedisian School of Medicine

Julia Bohannon, PhD, Vanderbilt University, Tennessee	<p>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</p> <p>Most Downloaded Paper Presentation: <i>Acetate Ringer's Solution Versus Normal Saline Solution In Sepsis: A Randomized, Controlled, Trial</i> , Jing Zhang, M.D.</p> <p>Department of Critical Care Medicine, Zhongnan Hospital of Wuhan University, China</p> <p>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</p> <p>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</p>
<p>2:00 PM - 3:00 PM</p> <p>Moderators: Lauren Moffatt, PhD, Medstar Health Research Institute, Washington, DC</p> <p>Manowar Aziz, PhD, Feinstein Institutes for Health Research, Northwell Health</p>	<p>New Investigator Competition</p> <p>Presentations TBD</p>
<p>3:00 PM - 3:30 PM</p> <p>3:30 PM - 4:30 PM</p> <p>Moderators: Lauren Moffatt, PhD, Medstar Health Research Institute, Washington, DC</p> <p>Manowar Aziz, PhD, Feinstein Institutes for Health Research, Northwell Health</p>	<p>Refreshment Break</p> <p>Research Award Presentations</p> <p>Japan Shock Society Award Presentation: <i>Life/working Styles of Women Surgeons in Japan and the World</i> , Dr. Kumiko Sekiguchi, Japan</p> <p>Japan Shock Society Award Presentation: <i>Persistent Inflammation, Immuno-suppression and Catabolism Syndrome</i> , Dr. Azusa Kato, Japan</p> <p>Research Investigator Award Presentation: <i>Novel Role of Lactate in MDSC-mediated Immunosuppression in Sepsis</i> , Min Fan, MD, PhD, East Tennessee State University</p> <p>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</p>
<p>4:30 PM - 6:30 PM</p> <p>Moderators: Jeffrey Shupp, MD, Georgetown University, Maryland</p> <p>Julia Bohannon, PhD, Vanderbilt University, Tennessee</p>	<p>Plenary Session 4: Burn Resuscitation</p> <p>Invited Presentation: <i>(Plasma-Inclusive Resuscitation and Refractory Shock-Title Pending)</i> , Arek Wiktor, MD, University of Colorado</p> <p>Invited Presentation: <i>Contemporary Understanding of the Systemic Response to Burn Injury: What to Know to Improve Resuscitation Strategies</i>, Vanessa Nomellini, MD, PhD, UT Southwestern Medical Center, Dallas, Texas</p> <p>Invited Presentation: <i>Bundles of Joy? The Function of Extracellular Vesicles after Burn Injury</i> , Robert Maile, PhD, University of Florida</p> <p>Invited Presentation: <i>(Endothelial Dysfunction Fibrinolytic Pathology - Title Pending)</i> , John Kubasiak, MD, Loyola University, Chicago</p> <p>Invited Presentation: <i>(Coagulation after Burn Injury - Title Pending)</i> , Maria Christina Bravo, PhD, University of Vermont</p> <p>Oral Abstract Presentations TBD</p>
<p>6:30 PM - 8:00 PM</p> <p>Moderator: Craig Coopersmith, MD, Emory University School of Medicine, Atlanta, GA</p>	<p>Demystifying the NIH Application Process</p> <p>Invited Presentation: <i>Writing the Research Plan</i>, Myung S. Park, MD MS, Rochester, Minnesota</p> <p>Invited Presentation: <i>Every Part of the Grant That is Not the Research Plan</i> , Melanie Scott, MD, PhD, University of Pittsburgh, Pennsylvania</p> <p>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</p> <p>Invited Presentation: <i>Responding to Summary Statement</i> , Craig Coopersmith, MD, Emory University School of Medicine, Atlanta, Georgia</p>

Time	Monday, June 2, 2025 Event
<p>6:00 AM - 7:30 AM</p> <p>Wendy Walker, PhD, Mercer University, Georgia</p> <p>Elisabetta Liverani, PhD, North Dakota State University</p>	Fun Run
7:30 AM - 9:00 AM	Poster Session 2
7:30 AM - 9:00 AM	Breakfast
<p>9:00 AM - 10:30 AM</p> <p>Moderator: Mitchell J. Cohen, MD, University of Colorado</p>	<p>Parallel Session 1a: Systems Biology, Computational and AI Approaches to Trauma, Burns and Sepsis Research</p> <p>Invited Presentation: <i>AI Approaches to Coagulation and Inflammation Biology</i> , Mitchell J. Cohen, MD, University of Colorado</p> <p>Invited Presentation: <i>Plasma Omics Reflect and Predict Trauma Patient Trajectories and Outcomes</i> , Christopher Erickson, PhD, University of Colorado</p> <p>Invited Presentation: <i>Controlling Coagulation: Towards Automated Coagulation Control</i> , Amor Menzes, PhD, University of Florida</p> <p>Invited Presentation: <i>Cosmic Stress: What Spaceflight Teaches Us About Mitochondrial Breakdown</i> , Shock, and Injury Response, Afshin Beheshti, PhD, University of Pittsburgh</p> <p>Oral Abstract Presentations TBD</p>
<p>9:00 AM - 10:30 AM</p> <p>Moderator: Mashkoor A. Choudhry, Ph.D., Loyola University of Chicago</p>	<p>Parallel Session 1b: The Gut in Traumatic Hemorrhage, Burn, TBI, and Sepsis</p> <p>Invited Presentation: <i>Gut-Brain Axis after Burn Injury</i> , Elizabeth J. Kovacs, PhD, University of Colorado Denver / Anschutz Medical Campus</p> <p>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</p>

	Invited Presentation: <i>Gut-Brain Axis in TBI (title to be confirmed)</i> , Steven J. Schwulst, MD, Northwestern University, Chicago, Illinois Oral Abstract Presentations TBD
10:30 AM - 11:00 AM	Refreshment Break
11:00 AM - 12:30 PM Moderators: Lucy Kornblith, MD, University of California San Francisco Elisabetta Liverani, PhD, North Dakota State University	Parallel Session 2a: Platelets in Trauma and Sepsis Invited Presentation: <i>Post-injury Platelet Biology</i> , Lucy Kornblith, MD, University of California San Francisco Invited Presentation: <i>Cold-stored Platelets in Trauma Transfusion</i> , Matthew D. Neal, MD, University of Pittsburgh, Pennsylvania Invited Presentation: <i>Sex Differences in Platelet Function During Sepsis</i> , Elisabetta Liverani, PhD, North Dakota State University Oral Abstract Presentations TBD
11:00 AM - 12:30 PM Moderators: Vanessa Nomellini, MD, PhD, UT Southwestern Medical Center, Dallas, Texas Marlene Starr, PhD, University of Kentucky	Parallel Session 2b: Novel Hypotheses, Models and Approaches in Shock Research Invited Presentation: <i>Getting with the Times: Moving from Rodents to Humans or Large Animal Models</i> , Marlene Starr, PhD, University of Kentucky Invited Presentation: <i>Nonhuman Primate Models for the Study of Human-derived Blood Products in Hemorrhagic Shock and Trauma</i> , Clifford G. Morgan, Naval Medical Research Unit San Antonio, JBSA Fort Sam Houston, Texas 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 Oral Abstract Presentations TBD
1:30 PM - 5:00 PM	Free Afternoon/Committee Meetings

Tuesday, June 3, 2025

Time	Event
7:30 AM - 9:00 AM	Poster Session 3
7:30 AM - 9:00 AM	Breakfast
9:00 AM - 10:30 AM Moderators: Judith Hellman, MD, University of California San Francisco Kartik Rajagopalan, MD, PhD, UT Southwestern Medical Center, Dallas, Texas	Parallel Session 3a: Neuroendocrine-Immune Axis in Shock and Sepsis 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 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 Invited Presentation: (Title to be confirmed), Clifford S. Deutschman, MS, MD, Hofstra-Northwell School of Medicine and Feinstein Institute for Medical Research, Manhasset, New York Oral Abstract Presentations TBD
9:00 AM - 10:30 AM Moderators: Scott C. Brakenridge, University of Washington Rishikesan Kamaleswaran, PhD, Duke University, North Carolina	Parallel Session 3b: Phenotypes, Endotypes and Precision Medicine Invited Presentation: <i>Omics Bioinformatics Approaches</i> , Douglas Brubaker, PhD, Case Western Reserve University, Cleveland, Ohio 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 Invited Presentation: <i>Vascular Endothelial Endotypes in Sepsis</i> , Eric Schmidt, MD, Massachusetts General Hospital, Boston, Massachusetts Oral Abstract Presentations TBD
10:30 AM - 11:00 AM	Refreshment Break
11:00 AM - 12:30 PM Moderator: Samithamby Jayaseelan, DVM, PhD, Louisiana State University	Parallel Session 4a: Immune and Cellular Dysfunction in Sepsis Invited Presentation: <i>Generation of Chronic Innate Exhaustion Memory and Long-term Disease Complications of Sepsis</i> , Liwu Li, PhD, Virginia Tech University Invited Presentation: <i>Alcohol, Sepsis and Drunk Macrophages</i> , Vidula Vachharanjeni, MD, Cleveland Clinic, Cleveland, Ohio Invited Presentation: <i>Cellular Senescence in Sepsis</i> , Raghavan Pillai Raju, PhD, Medical College of Georgia, Augusta, Georgia Oral Abstract Presentations TBD
11:00 AM - 12:30 PM Moderators: Kalev Freeman, MD, PhD, University of Vermont Jessica C. Cardenas, PhD, University of Colorado	Parallel Session 4b: Endotheliopathy Mechanisms and Resuscitating the Endothelium 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 Invited Presentation: <i>Current Model of SHINE Endotheliopathy Driving Progressive Organ Failure, Mortality and Therapeutic Strategies</i> , Kalev Freeman, MD, PhD, University of Vermont 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 Oral Abstract Presentations TBD
12:30 PM - 1:30 PM	Boxed Lunch
12:30 PM - 1:30 PM Moderators: Wendy Walker, PhD, Mercer University, Georgia Myung S. Park, MD MS, Rochester, Minnesota	Value of Diversity in Medical Education and Shock Research Invited Presentation: <i>Value of Diversity in Medical Education</i> , Priya Sinha Garg, MD, Boston University, Massachusetts
1:30 PM - 2:30 PM Moderator: Scott C. Brakenridge, MD, University of Washington	Update on DoD and NIH Funding Invited Presentation: <i>Priorities and Opportunities in DoD Research Funding</i> , Sylvain Cardin, PhD, US Army Institute of Surgical Research, JBSA Fort Sam Houston, Texas Invited Presentation: <i>Priorities and Opportunities in NIGMS Funding Programs</i> , Rochelle Long, PhD, National Institute of General Medical Sciences, Bethesda, Maryland

	Invited Presentation: <i>Priorities and Opportunities in NHLBI Funding Programs</i> , Guofei Zhou, PhD, National Heart Lung and Blood Institute, Rockville, Maryland
2:30 PM - 3:00 PM	Refreshment Break
3:00 PM - 5:00 PM Moderators: Linda Sousse, PhD, UT Health Science Center, San Antonio, Texas Jared Gallaher, MD, MPH, University of North Carolina, Chapel Hill, North Carolina	Plenary Session 5: Everything Extracorporeal: A Translational Look at ECMO Invited Presentation: <i>The Use of AI in ECMO Prediction Models for Mortality and Bleeding</i> , Linda Sousse, PhD, Institute for Extracorporeal Life Support, San Antonio, Texas Invited Presentation: <i>Extracorporeal Blood Purification Therapies</i> , Vedran Prumezic, MD, PhD, University Hospital Center, Zagreb, Croatia Invited Presentation: <i>Veno-Venous ECMO and Patient Selection</i> , David Furfaro, MD, Harvard University, Boston, MA and Anna Condella, MD, Harborview Medical Center, University of Washington Invited Presentation: <i>Veno-Arterial ECMO and eCPR</i> , Sydney Hansen, MD, University of Minnesota, Minneapolis Invited Presentation: <i>(title to be confirmed)</i> , Jared Gallaher, MD, University of North Carolina, Chapel Hill, North Carolina Oral Abstract Presentations TBD
6:00 PM - 6:30 PM	Cocktail Reception
6:30 PM - 9:00 PM Moderators: Lauren T. Moffatt, PhD, Medstar Health Research Institute, Washington, DC Manowar Aziz, PhD, Feinstein Institutes for Health Research, Northwell Health	Dinner and Awards Banquet <i>48th Annual Conference on Shock Thank You and Closing Remarks</i> , Anthony E. Pusateri, PhD, Scientific Program Chair, 2025 <i>Awards Presentations</i> , Awardees to be announced