

Shock Society Meeting Program Portland Oregon – June 17-20, 2023

SATURDAY, JUNE 17TH

7:00AM – 11:00AM

Council Meeting (Invitation only)

9:00AM – 6:00PM

Speaker Ready Room

10:00 AM – 6:30 PM

Registration

11:00AM – 12:30PM

Shock Editorial Board Meeting (Invitation only)

1:00PM – 2:30PM

Plenary Session I

(Salon E-F)

Organ and Systems Crosstalk in Sepsis and Injury

Moderators

Laurie Kilpatrick PhD, Temple University

Ryan Stark MD, Vanderbilt University Medical Center

Invited Speakers

- 1:00 PM – 1:05 PM
Laurie Kilpatrick PhD, Temple University
Session Introduction
- 1:05 PM – 1:25 PM
Prabhakar Pandian PhD, CFD Research
In Silico Modeling of Cellular and Organ Crosstalk
- 1:25 PM – 1:55 PM
Mohammad Kiani PhD, Temple University
In Vitro Modeling of Cellular Cross Talk in the Microvasculature
- 1:55 PM – 1:10 PM
Basilina Zingarelli MD PhD, Cincinnati Children's Hospital Medical Center
Exosomes and Extracellular Vesicles as Vehicles for Organs and Systems Cross-Talk
- 1:10 PM – 1:30 PM
Jeeva Martyn MD, Massachusetts General Hospital/Harvard Medical School
Interaction of Immune Cells and Motor Neurons and Its Effects on Muscle

2:35 PM – 3:55 PM

Plenary Session II

(Salon E-F)

Computational Sciences and Precision Medicine in Trauma and Critical Care

Moderators

Vanessa Nomellini MD PhD, UT Southwestern Medical Center

Rishikesan Kamaleswaran PhD, Emory University College of Arts and Sciences

Invited Speakers

- 2:35 PM – 2:55 PM
Yoram Vodovotz PhD, University of Pittsburgh
Defining Dynamic Immune Networks Within and Across Tissues in Critical Illness Using Computational Modeling
- 2:55 PM – 3:15 PM
Timothy Billiar MD, University of Pittsburgh
High Dimensional Multi-omics Identify Outcome Based Patterns in Human Trauma
- 3:15 PM – 3:35 PM
Romain Pirracchio MD PhD, University of California San Francisco
AI For Prediction and Clinical Decision Support in Critical Care

Oral Abstracts

- 3:35 PM – 3:45 PM
Jeremy Balch MD, University of Florida - IMMUNOLOGICAL ENDOTYPES IN INTENSIVE CARE PATIENTS WITH SEPSIS OR AT-RISK OF SEPSIS (Abstract 3904758)
- 3:45 PM – 3:55 PM
TJ Schaid MD, University of Colorado Denver School of Medicine - AGED TRAUMA PATIENTS HAVE DISTINCT PROTEOMIC AND METABOLOMIC SIGNATURES OF INJURY (Abstract 3908770)

3:55 PM – 4:10 PM

Refreshment Break

4:10 PM – 5:20 PM

Plenary Session III

(Salon E-F)

Shock Journal: State of the Journal & Oral Presentations of Most Downloaded Papers

Moderators

Dan Remick MD, Boston University School of Medicine

Julia Bohannon PhD, Vanderbilt University Medical

Invited Speakers

- 4:10 PM – 4:30 PM
Dan Remick MD, Boston University School of Medicine
State of the Journal
- 4:30 PM – 4:42 PM
Anne Grossestreuer PhD, Beth Israel Deaconess Medical Center
Esmolol to Treat the Hemodynamic Effects of Septic Shock: A Randomized Controlled Trial
- 4:42 PM – 4:54 PM
Meagan Kingren PhD, University of Kentucky College of Medicine
Azithromycin and Major Adverse Kidney Events in Critically Ill Patients with Sepsis-Associated Acute Kidney Injury
- 4:54 PM – 5:06 PM
Basilina Zingarelli MD PhD, Cincinnati Children's Hospital Medical Center
Candidate Biomarkers for Sepsis-Associated Acute Kidney Injury Mechanistic Studies
- 5:06 PM – 5:18 PM
Dijoia Darden MD, University of Florida

Sepsis-Induced Myopathy and Gut Microbiome Dysbiosis: Mechanistic Links and Therapeutic Targets

5:30 PM – 6:30 PM

Presidential Addresses:

(Salon E-F)

- Melanie Scott MD PhD, University of Pittsburgh - TBA

6:30 PM – 7:30 PM

Welcome Reception

(includes new member recognition)

(Salon G-I)

7:30 PM – 9:00 PM

Mentoring Workshop Dinner

(Salon E-F)

SUNDAY, JUNE 18TH

7:00 AM – 5:00 PM

Registration

7:00 AM – 5:00 PM

Speaker Ready Room

7:30 AM – 9:00 AM

Poster Session I

(Exhibit Hall LL-2)

Continental Breakfast

9:00 AM – 10:30 AM

Plenary Session IV

(Salon E-F)

Cellular Contributors to Microvascular Thrombosis and Critical Illness in Trauma and Sepsis

Moderators

Rosemary Kozar MD PhD, University of Maryland School of Medicine

Beth Middleton MD, University of Utah Health

Invited Speakers

- 9:00 AM – 9:20 AM

Rosemary Kozar MD PhD, University of Maryland School of Medicine

Role of VWF in Endotheliopathy and Repair After Injury

- 9:20 AM – 9:40 AM

Beth Middleton MD, University of Utah Health

Platelets and Sepsis/COVID-19

- 9:40 AM – 10:00 AM

Vanessa Nomellini MD PhD, UT Southwestern Medical Center

Consumptive Coagulopathy is Associated with Organ Dysfunction During PICS

Oral Abstracts

- 10:00 AM – 10:10 AM

Otto Thielen MD, University of Colorado Anschutz Medical Campus -

THROMBOINFLAMMATORY MEDIATORS PRODUCED BY FIBRINOLYSIS PHENOTYPES FOLLOWING INJURY (Abstract 3909637)

- 10:10 AM – 10:20 AM

Young Woo Um MD, Seoul National University Bundang Hospital - ALTERATIONS OF

CEREBRAL MICROCIRCULATION AND THE ROLE OF NEUTROPHILS IN

MICROCIRCULATORY DYSFUNCTION IN MOUSE CARDIAC ARREST MODEL (Abstract 3904184)

- 10:20 AM – 10:30 AM

Boyang Ren PhD, University of Maryland School of Medicine - EXTRACELLULAR RNA AND

TLR7 SIGNALING MEDIATES INFLAMMATION AND ORGAN INJURY IN A MURINE MODEL OF POLYTRAUMA (Abstract 3904833)

10:30AM – 10:50AM

Refreshment Break

11:00 AM – 12:00 PM

Keynote Address - Susan Lynch, PhD UCSF

(Salon E-F)

Topic/Title: Microbiome/TBA

12:00 PM – 1:10 PM

Boxed Lunch

12:10 PM – 1:10 PM

Oral Presentations By and For Young Investigators

(Salon E-F)

(Young Investigators only – bring lunch into room)

Moderators

Juan Idrovo MD, University of Colorado

Young Investigators

- 12:10 PM – 12:22 PM
Matthew Baucom MD, University of Cincinnati - LATE TRANEXAMIC ACID ADMINISTRATION AFTER TBI CONTINUES TO CONVEY IMMUNOLOGICAL BENEFIT (Abstract 3904876)
- 12:22 PM – 12:34 PM
Gregor Roemmermann Cand. Med, Klinikum rechts der Isar der Technischen Universitat Munchen - INCREASE IN COMPLICATION RATES WITH ELEVATED GITR EXPRESSION LEVELS OF CD4+ TREGS AFTER PROXIMAL FEMORAL FRACTURES IN GERIATRIC PATIENTS (Abstract 3908473)
- 12:34 PM – 12:46 PM
Molly Kobritz MD, Feinstein Institutes for Medical Research - THE STING ANTAGONIST H151 AMELIORATES LETHAL SEPSIS (Abstract 3908146)
- 12:46 PM – 12:58 PM
Edward Kelly MD, MedStar Washington Hospital Center - PLASMA INCLUSIVE RESUSCITATION INDUCES DIFFERENTIAL EXPRESSION OF INFLAMMATORY MEDIATORS IN A RODENT BURN SHOCK MODEL (Abstract 3909260)
- 12:58 PM – 1:10 PM
Eric Mace MD, Vanderbilt University Medical Center - SOLUBLE GUANYLYL CYCLASE STIMULATION ATTENUATES HYPEROXIA-INDUCED VASCULAR DYSFUNCTION IN MICE (Abstract 3909272)

1:20 PM – 2:35 PM

New Investigator Competition

(Salon E-F)

Moderators

Anthony E. Pusateri - Naval Medical Research Center-San Antonio

Myung Park MD, Mayo Clinic

New Investigators

- 1:20 PM – 1:35 PM
Gustavo Vazquez Zweig MD, Northwell Health Feinstein Institutes for Medical Research -

NOVEL PS-OME MIRNA130B-3P REDUCES INFLAMMATION AND INJURY, AND IMPROVES SURVIVAL AFTER RENAL ISCHEMIA REPERFUSION INJURY (Abstract 3907786)

- 1:35 PM – 1:50 PM
Travis Walrath PhD, University of Colorado Anschutz Medical Campus – ADVANCED AGE INHIBITS COLONIC ANTIMICROBIAL PEPTIDE RESPONSE TO BURN INJURY, EXACERBATING DYSBIOSIS, SYSTEMIC BACTERIAL SPREAD, AND NEUROINFLAMMATION (Abstract 3907467)
- 1:50 PM – 2:05 PM
Atharwa Mankame, The University of Texas Health Science Center at Houston - TIME-DEPENDENT CHANGES IN PROINFLAMMATORY MEDIATORS ARE ASSOCIATED WITH TRAUMA-RELATED VENOUS THROMBOEMBOLISM (Abstract 3905853)
- 2:05 PM – 2:20 PM
Zhangying Chen BS, Northwestern University Feinberg School of Medicine - ANTI-CD49D ANTIBODY TREATMENT IMPROVES SURVIVAL AND ATTENUATES NEUROCOGNITIVE DEFICITS AFTER TRAUMATIC BRAIN INJURY IN AGED MICE (Abstract 3903996)
- 2:20 PM – 2:35 PM
Junji Shimizu MD, Northwell Health Feinstein Institutes for Medical Research - EXTRACELLULAR CIRP INHIBITS NEUTROPHIL APOPTOSIS TO PROMOTE ITS AGING BY UPREGULATING SERPINB2 IN SEPSIS (Abstract 3904392)

2:45 PM – 3:50 PM

Research Award Recipient Presentations

(Salon E-F)

Moderators

Anthony E. Pusateri - Naval Medical Research Center-San Antonio
Myung Park MD, Mayo Clinic

Awardee Speakers

- 2:45 PM – 3:05 PM
Faculty Research Award Recipient
Ryan M. Pearson PhD, University of Maryland School of Pharmacy - Multimodal Immunomodulatory Strategy to Treat Inflammation and Immunosuppression in Sepsis
- 3:05 PM – 3:20 PM
Research Investigator Fellowship Recipient
Chuyi Tan MD, The Feinstein Institutes for Medical Research - The Role of Neutrophils on B-1a Cells in Sepsis
- 3:20 PM – 3:35 PM
Japan Shock Society Presidents Award
Nobuto Nakanishi MD, Kobe University – Sepsis Causes Muscle Atrophy and Weakness in Mice Through Neutrophil Infiltration on Muscle
- 3:35 PM – 3:50 PM
Japan Shock Society Young Investigator Award – Presidential Award
Masayoshi Shinozaki MD, Chiba University – Novel Technologies and Approaches to Study Shock Pathophysiology, Outcomes and Treatments

3:50 PM – 4:10 PM

Refreshment Break

4:15 PM – 5:55 PM

Concurrent Session 1

(Salon E-F)

Metabolism, Immunometabolism and Trained Immunity in Health and Disease

Moderators

Leni Koniaris MD, Oregon Health & Sciences University; Portland VAMC

David Williams PhD, Quillen College of Medicine, East Tennessee State University

Invited Speakers

- 4:15 PM – 4:35 PM
Julia Bohannon PhD, Vanderbilt University Medical
Protecting the Immunocompromised from Infection Through Trained Immunity
- 4:35 PM – 4:55 PM
Clifford Deutschman MD, Feinstein Institute
Mitochondrial Function and Metabolism in Critical Illness/Organ Function
- 4:55 PM – 5:15 PM
David Williams PhD, Quillen College of Medicine, East Tennessee State University
Trained Immunity in Aging and Sepsis
- 5:15 PM – 5:35 PM
Charles McCall MD, Wake Forest University School of Medicine
Metabolic programming of innate immunity in sepsis
- 5:35 PM – 5:55 PM
Leni Koniaris MD, Oregon Health & Sciences University; Portland VAMC
Physiological Cachexia and Organ Repair

4:15 PM – 5:55 PM

Concurrent Session 2

(Salon G-I)

Pathophysiology of Trauma, Hemorrhage and Ischemia Reperfusion

Moderators

Martin Schrieber MD, Oregon Health & Sciences University

Chris Barrett MD, University of Nebraska Medical Center

Invited Speakers

- 4:15 PM – 4:35 PM
Aleah Brubaker MD PhD, UC San Diego Health
Normothermic Regional Perfusion in Translational Models of Preconditioning
- 4:35 PM – 4:55 PM
Kalev Freeman MD PhD, University of Vermont
Endothelial response to IR and Injury
- 4:55 PM – 5:15 PM
Hunter Moore MD PhD, University of Colorado
Microvascular Thrombosis Following Ischemia Reperfusion Injury: A Protective Type of Disseminated Intravascular Coagulation?

Oral Abstracts

- 5:15 PM – 5:25 PM
Avinash Mukkala BSc PhD student, University of Toronto – CAPTURE OF MITOCHONDRIA BY KUPFFER CELLS MOTIVATES THE HEPATOPROTECTIVE EFFECT OF

MITOCHONDRIAL TRANSPLANTATION IN MURINE LIVER ISCHEMIA/REPERFUSION INJURY AND INFLAMMATION (Abstract 3907339)

- 5:25 PM – 5:35 PM
David Burmeister PhD, Uniformed Services University of the Health Sciences – PHARMACOLOGICAL APPROACHES TO MITIGATE ACUTE KIDNEY INJURY SECONDARY TO PARARENAL BALLOON OCCLUSION OF THE AORTA IN A PORCINE MODEL OF HEMORRHAGIC SHOCK (Abstract 3908101)
- 5:35 PM – 5:45 PM
Joyce Li PhD Student, University of California San Diego - RESVERATROL-HYDROXYPROPYL- β -CYCLODEXTRIN COMPLEX IMPROVES HEMODYNAMICS IN EXPERIMENTAL TRAUMA/HEMORRHAGIC SHOCK (Abstract 3908571)
- 5:45 PM – 5:55 PM
Lucia Xiang MD, US Army Institute of Surgical Research – REDUCING HYPOXIA, ORGAN INJURY, AND MORTALITY DURING PROLONGED HEMORRHAGIC SHOCK WITH A NOVEL OXYGEN COCKTAIL (Abstract #3905167)

6:15 PM – 8:00 PM

Demystifying the NIH Application

(Mount Hood)

Dinner starts at 6:15

Presentations start promptly at 6:30 PM

Moderator

Jenny Kaplan MD, Cincinnati Children's Hospital Medical Center

Invited Speakers

- 6:30 PM – 6:50 PM
Thomas Cho PhD, Scientific Review Officer, NIH Center for Scientific Review
NIH Review Process
- 6:50 PM – 7:10 PM
Jenny Kaplan MD, Cincinnati Children's Hospital Medical Center
The Biosketch – What Goes into the Personal Statement?
- 7:10 PM – 7:30 PM
Qun Sophia Zang PhD, Loyola University Chicago Health Sciences Campus
Writing Effective Specific Aims
- 7:30 PM – 7:50 PM
Craig Coopersmith MD, Emory University
Tackling NIH Proposal Resubmissions – Responding to the Summary Statement

MONDAY, JUNE 19TH

6:00AM – 7:30AM

Fun Run

7:00 AM – 5:00 PM

Registration

7:00AM – 5:00PM

Speaker Ready Room

7:30AM – 9:00AM

Poster Session 2

(Exhibit Hall LL-2)

Continental Breakfast

9:00 AM – 10:30 AM

Plenary Session V

(Salon E-F)

The Microbiome in Sepsis, Injury and Critical Illness

Moderators

Elizabeth J. Kovacs PhD, University of Colorado Denver

Steven Schwulst MD, Northwestern Medicine Feinberg School of Medicine

Invited Speakers

- 9:00 AM – 9:20 AM
John Alverdy MD, University of Chicago Medicine
The Microbiome in Sepsis and Trauma
- 9:20 AM – 9:40 AM
Ravinder Nagpal PhD, Florida State University College of Health and Human Sciences
Gut-Biome-Brain Dysbiosis in Aging and Alzheimer's: Is Sepsis the Missing Link?
- 9:40 AM – 10:00 AM
Alicia Mohr MD, University of Florida
Stress-Related Changes in the Microbiome After Trauma

Oral Abstracts

- 10:00 AM – 10:10 AM
Mara Serbanescu MD, Duke University – DIFFERENTIAL EFFECTS OF OXYGEN AND ISOFLURANE ON THE GUT MICROBIOTA MEDIATE IMMUNE RESPONSES AND MORTALITY IN ENDOTOXEMIA (Abstract 3909254)
- 10:10 AM – 10:20 AM
Booker Davis PhD MS, Northwestern University Feinberg School of Medicine – POST-INJURY ADMINISTRATION OF SHORT CHAIN FATTY ACIDS SUPPORTS GUT MICROBIAL STRUCTURE AND ATTENUATES COGNITIVE DEFICITS IN SEVERE TRAUMATIC BRAIN INJURY (Abstract 3909311)
- 10:20 AM – 10:30 AM
Kingsley Yin PhD, Rowan University School of Osteopathic Medicine - LACTOBACILLUS ACIDOPHILUS CELL FREE FILTRATE IS ANTIMICROBIAL AND IMMUNOMODULATORY IN A WOUND INFECTION MODEL (Abstract 3908106)

10:30 AM – 10:45 AM

Refreshment Break

10:45 AM – 12:15 PM

Concurrent Session 3

(Salon E-F)

Chronic Critical Illness and Immunosenescence in Trauma and Sepsis

Moderators

Vanessa Nomellini MD PhD, UT Southwestern Medical Center
Phil Efron MD, University of Florida

Invited Speakers

- 10:45 AM – 11:05 AM
Ken Remy MD, Case Western Reserve University School of Medicine
How to Make Precision Medicine Efforts More Precise?
- 11:05 AM – 11:25 AM
Meihong Deng MD, The Feinstein Institutes for Medical Research
The Role of Exercise in Post Sepsis Immune Recovery
- 11:25 AM – 11:45 AM
Christian Bergmann MD, University of Ulm & University of Cincinnati
Functional Assessment of Innate and Adaptive Immunity in Severely Injured Trauma Patients

Oral Abstracts

- 11:45 AM – 11:55 AM
Meagan Kingren BS, University of Kentucky College of Medicine - POST-SEPSIS CHRONIC MUSCLE WEAKNESS OCCURS PROGRESSIVELY AND CAN BE PREVENTED BY PHARMACOLOGICAL PROTECTION OF MITOCHONDRIA (Abstract 3909170)
- 11:55 AM – 12:05 PM
Evan Barrios MD, University of Florida College of Medicine – SINGLE-CELL RNA SEQUENCING REVEALS NOVEL MYELOID-DERIVED SUPPRESSOR CELLS IN CHRONIC CRITICAL ILLNESS VS RAPID RESPONDERS SUBACUTELY AFTER SEPSIS (Abstract 3909231)
- 12:05 PM – 12:15 PM
Seibi Kobara BS MPH, Emory University – ENERGY DERANGEMENT IN ICU-ACQUIRED WEAKNESS GENE SIGNATURES APPEARED IN OLDER AGE GROUPS IN CRITICALLY ILL PATIENTS WITH SUSPECTED INFECTION (Abstract 3905469)

10:45 AM – 12:15 PM

Concurrent Session 4

(Salon G-I)

The Science of Trauma and Hemorrhage

Moderators

Karen Brasel MD, Oregon Health & Sciences University
Letitia Bible MD, University of Florida

Invited Speakers

- 10:45 AM – 11:05 AM
Martin Schreiber MD, Oregon Health & Sciences University

Massive Transfusion in Trauma

- 11:05 AM – 11:25 AM
Karen Brasel MD, Oregon Health & Sciences University
Trauma in Pregnancy
- 11:25 AM – 11:45 AM
Shibani Pati MD PhD, University of California San Francisco – Recent Updates on the Endotheliopathy of Trauma

Oral Abstracts

- 11:45 AM – 11:55 AM
Kevin Galicia MD MA, Loyola University Medical Center – PLASMA I-FABP AND ZONULIN ARE ELEVATED AFTER TRAUMA AND CORRELATE WITH DECREASED FECAL SHORT-CHAIN FATTY ACID PRODUCTION (Abstract 3902131)
- 11:55 AM – 12:05 AM
Xuejing Sun, University of Pittsburgh – EVIDENCE THAT GASDERMIND CONTRIBUTES TO THE SYSTEMIC RELEASE OF CELLULAR METABOLITES AFTER HEMORRHAGIC SHOCK WITH TISSUE TRAUMA IN MICE AND HUMANS (Abstract 3907793)
- 12:05 AM – 12:15 PM
Xiaowu Wu PhD, US Army Institute of Surgical Research - INVESTIGATION OF A NOVEL PRE-HOSPITAL CONTERMEASURE FOR DECOMPENSATED HEMORRHAGIC SHOCK USING PROLYL HYDROXYLASE DOMAIN INHIBITOR (Abstract 3905063)

12:15PM – 1:15PM

Shock Society Business Meeting

(Salon E-F)

1:30PM – 3:00PM

Strategic Planning Meeting (*Invitation only; Lunch*)

(Salon A)

Committee Meetings (TBA)

FREE AFTERNOON AND EVENING

TUESDAY, JUNE 20TH

7:00 AM – 5:00 PM

Registration

7:00AM – 5:00PM

Speaker Ready Room

7:30AM – 9:00AM

Poster Session 3

(Exhibit Hall LL-2)

Continental Breakfast

9:00 AM – 10:30 AM

Concurrent Session 5

(Salon E-F)

DEI, Advocacy and Health Equity in Trauma and Critical Care Research

Moderator

Alicia Mohr MD, University of Florida

Invited Speakers:

- 9:00 AM – 9:20 AM
Rochelle Long PhD, Division Director, Pharmacology, Physiology, and Biological Chemistry, NIGMS
Support for Diversity, Equity, Inclusion, & Accessibility in the Research Workforce
- 9:20 AM – 9:50 AM
Angela Sauaia MD PhD, University of Colorado
Injustice in Health Research
- 9:50 AM – 10:10 AM
Michaela West MD PhD, North Memorial Health
Gender Advocacy and Equity in Science and Clinical Care
- 10:10 AM – 10:30 AM
Karen Brasel MD, Oregon Health & Sciences University
Diversifying the Surgical and Perioperative Sciences Work Force

9:00 AM – 10:30 AM

Concurrent Session 6

(Salon G-I)

Microvascular Function and Dysfunction in Sepsis and Injury

Moderators

Kalev Freeman MD PhD, University of Vermont

J r mie Joffre MD PhD, UCSF School of Medicine

Invited Speakers

- 9:00 AM – 9:17 AM
Laurie Kilpatrick PhD, Temple University
Phenotyping Neutrophil-Endothelial Interactions in Sepsis Patients

- 9:17 AM – 9:34 AM
Sarah Yuan MD PhD, University of South Florida College of Medicine
Extracellular Vesicles and Microvascular Barrier Dysfunction in Burns and Sepsis
- 9:34 AM – 9:51 AM
Chuanfu Li MD, East Tennessee State University
Endothelial HSPA12B and Lactate in IR injury and Sepsis
- 9:52 AM – 10:10 AM
Ryan Stark MD, Vanderbilt University Medical Center
Endothelial effects of Cardiopulmonary Bypass

Oral Abstracts

- 10:10 AM – 10:20 AM
Stephanie Sisak MD, University of Cincinnati - MICROVESICLES FROM STORED RED BLOOD CELLS INDUCE P-SELECTIN AND VON WILLEBRAND FACTOR RELEASE FROM ENDOTHELIAL CELLS IN A PROTEIN KINASE C-DEPENDENT MECHANISM (Abstract 3908149)
- 10:20 AM – 10:30 PM
Fengyun Xu PhD, University of California San Francisco - PROTECTIVE EFFECTS OF ENDOTHELIAL TLR2 IN BACTERIAL CLEARANCE AND SEPSIS (Abstract 3908292)

10:30 AM – 10:45 AM

Refreshment Break

10:45 AM – 12:25 PM

Plenary Session VI

(Salon E-F)

NIH and DOD Research Priorities and Opportunities

Moderators

Scott Brakenridge MD
Melanie Scott MD PhD

Invited Speakers

- 10:45 AM – 11:05 AM
Rochelle Long, PhD - Division Director, NIGMS Pharmacology, Physiology, and Biological Chemistry
Updates on the Sepsis Research Priorities at NIGMS
- 11:05 AM – 11:25 AM
Chris Chao, PhD - Program Director, NIGMS Pharmacological and Physiological Sciences Branch
Navigating Research Opportunities in Critical Illness, Injury & Wound Healing, Sepsis
- 11:25 AM – 11:45 AM
Patrice Becker MD - Section Chief, Asthma and Airway Biology, NIAID/ DAIT/ AAABB
NIAID Research Priorities in Sepsis
- 11:45 AM – 12:05 PM
Sylvain Cardin PhD - Chief Science Director, Naval Medical Research Unit – San Antonio –
DOD Research Priorities and Directions
- 12:05 PM – 12:25 PM
Guofei Zhou, PhD - Program Director, NHLBI Division of Lung Diseases (DLD)
NHLBI Research Priorities and Directions in Acute Lung Injury and ARDS

12:25 PM – 1:20 PM

Boxed Lunch

1:20 PM – 2:50 PM

Plenary Session VII

(Salon E-F)

Burns: Pre-Clinical and Clinical State of the Science

Moderators

Marc Jeschke MD PHD, McMaster University

Jeeva Martyn MD, Massachusetts General Hospital/Harvard Medical School

Invited Speakers

- 1:20 PM – 1:40 PM
Marc Jeschke MD PhD, McMaster University
Aging Effects on Burns
- 1:40 PM – 2:00 PM
Tina Palmieri MD, University of California, Davis
Treatment of Humans and Animals Injured in Wildfires
- 2:00 PM – 2:20 PM
Jeffrey Shupp MD, MedStar Washington Hospital Center
Transcriptomic Response to Burn Injury
- 2:20 PM – 2:40 PM
Leopoldo Cancio MD, US Army Institute of Surgical Research
Role of Adjunct Treatments on Organ Injury and ARDS Following Burn and Inhalation Injury

Oral Abstracts

- 2:40 PM – 2:50 PM
Dalia Barayan, Doctor of Philosophy, University of Toronto - METFORMIN IMPROVES OUTCOMES OF OLDER BURN PATIENTS AND MICE BY RESCUING AGING-IMPAIRED WHITE ADIPOSE TISSUE BROWNING (Abstract 3908742)

2:55 PM – 4:25 PM

Concurrent Session 7

(Salon A-D)

Neuro-Immune Crosstalk in Local and Systemic Inflammation

Moderators

Todd Costantini MD, University of California San Diego

Booker Davis PhD, Northwestern University

Invited Speakers

- 2:55 PM – 3:15 PM
Steven Schwulst MD, Northwestern Medicine Feinberg School of Medicine - Neuroinflammation and the Microbiome
- 3:15 PM – 3:35 PM
Michael Goodman MD, University of Cincinnati
Novel Approaches to TBI-Induced Neuroinflammation
- 3:35 PM – 3:55 PM
Sangeeta Chavan PhD, The Feinstein Institutes for Medical Research

Targeting Neural Circuits to Control Inflammation

- 3:55 PM – 4:15 PM

Jérémie Joffre MD PhD, UCSF School of Medicine / Saint-Antoine Hospital - Sorbonne University

CNS CB₁R Activation Alleviates Acute Inflammation

Oral Abstracts

- 4:15 PM – 4:25 PM

Rachel McMahan PhD, University of Colorado Anschutz Medical Campus - ETHANOL-INDUCED POTENTIATION OF POST-BURN NEUROINFLAMMATION INVOLVES THE GUT-BRAIN AXIS (Abstract 3907857)

2:55 PM – 4:25 PM

Concurrent Session 8

(Salon G-I)

Emerging Topics

Moderators

Mashkour Choudhry PhD, Loyola University Chicago Health Sciences Campus

Wendy Walker PhD, Texas Tech University Health Science Center El Paso

Invited Speakers

- 2:55 PM – 3:10 PM

Marcin Osuchowski DVM PhD, Ludwig Boltzmann Institute for Experimental and Clinical Traumatology

Extracellular vesicles and miRNA's in COVID-19 disease

- 3:10 PM – 3:25 PM

Scott Brakenridge MD, UW Harborview Medical Center

Inflammatory and Immunosuppressive Responses to Sepsis and SARS-CoV-2

- 3:25 PM – 3:35 PM

Thomas Cho PhD - Scientific Review Officer, NIH Center for Scientific Review

MIRA - Review Process

Oral Abstracts

- 3:35 PM – 3:45 PM

Prashanth Anamthakula PhD, University of Missouri Kansas City - VBI-S FOR THE TREATMENT OF RELATIVE HYPOVOLEMIA AND HYPOTENSION IN SEPTIC SHOCK (Abstract 3908427)

- 3:45 PM – 3:55 PM

Rongxue Wu MD PhD, University of Chicago - B1R INHIBITION: A KEY FACTOR IN PROTECTING CARDIAC FUNCTION AND ENHANCING SURVIVAL DURING SEPSIS THROUGH STAT3/IL-6 SIGNALING (Abstract 3908598)

- 3:55 PM – 4:05 PM

Jiannan Hu PhD, Northwell Health Feinstein Institutes for Medical Research - EXERCISE PROTECTS THE LUNG FROM ACUTE INFLAMMATORY INJURY VIA DRIVING INTERSTITIAL MACROPHAGE TOWARDS AN ANTI-INFLAMMATORY PHENOTYPE (Abstract 3908510)

- 4:05 PM – 4:15 PM

Charles C. Caldwell PhD, University of Cincinnati College of Medicine - ENDOTYPING SEPTIC AND CRITICALLY ILL PATIENTS USING ELISPOT: THE 'SPIES' EXPERIENCE (Abstract 3908525)

- 4:15 PM – 4:25 PM
Antonio Hernandez MD MSc, Vanderbilt University Medical Center - TOLL-LIKE RECEPTOR 4-INDUCED TRAINED IMMUNITY IN THE LUNG IMPROVES SURVIVAL FROM KLEBSIELLA PNEUMONIAE-INDUCED PNEUMONIA IN MICE AND REQUIRES LUNG RESIDENT MACROPHAGES (Abstract 3905643)

4:25 PM – 4:40 PM
Refreshment Break

4:40 PM – 6:00 PM
Concurrent Session 9
Data Management and Sharing

(Salon A-D)

Moderator

Elizabeth J. Kovacs PhD, University of Colorado Denver

Invited Speakers

- 4:40 PM – 5:00 PM
Chris Chao PhD, NIGMS
The NIH Data Management and Sharing Policy
- 5:00 PM – 5:20 PM
Emily Ruff Community Manager DataWorks
Introduction to FASEB DataWorks!
- 5:20 PM – 5:45 PM
Darla Henderson PhD
Research Integrity in Data Management and Sharing, Office of Science and Technology Policy (OSTP)
- 5:45 PM – 6:00 PM
Panel Discussion

4:40 PM – 6:00 PM
Concurrent Session 10

Influence of Social, Environmental, and Biological Variables in Shock, Trauma and Sepsis

(Salon G-I)

Moderators

Alicia Mohr MD, University of Florida
Carmelle Elie MD, University of Alabama

Invited Speakers

- 4:40 PM – 5:00 PM
Carmelle Elie MD, University of Alabama
Social and Environmental Factors Impacting Sepsis Outcomes
- 5:00 PM – 5:20 PM
Jenny Kaplan MD, Cincinnati Children's Hospital Medical Center
Biological Variables, ie Age, Sex, Obesity
- 5:20 PM – 5:40 PM

Oral Abstracts

- 5:40 PM – 5:50 PM
Andrea Qualman BS, University of Colorado - siRNA-INDUCED MCJ SILENCING ATTENUATES HEPATIC INJURY IN AGED MICE SUSTAINING BURN TRAUMA (Abstract 3904469)
- 5:50 PM – 6:00 PM
Jennifer Munley MD, University of Florida College of Medicine - POSTINJURY PNEUMONIA INDUCES PERSISTENT SEX-SPECIFIC ALTERATIONS IN THE GUT MICROBIOME (Abstract 3905005)

7:00 PM – 7:30 PM

Cocktail Half Hour

(Ballroom Foyer)

7:30 PM – 10:00 PM

Dinner and Awards Banquet

(Salon E-F)