**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**

**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

Basilia 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**

**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**

**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 Grossestreur 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

Marlene Starr 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

Basilia 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:**

* Melanie Scott MD PhD, University of Pittsburgh - TBA

6:30 PM – 7:30 PM

**Welcome Reception**

(includes new member recognition)

7:30 PM – 9:00 PM

**Mentoring Workshop Dinner**

***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**

Continental Breakfast

9:00 AM – 10:30 AM

**Plenary Session IV**

**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**

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**

(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**

**Moderators**

Tony Pusateri PhD, U.S. Army Institute of Surgical Research

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**

**Moderators**

Tony Pusateri PhD, U.S. Army Institute of Surgical Research

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**

**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**

**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**

(Includes Dinner)

**Moderator**

Craig Coopersmith MD, Emory University

**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**

Continental Breakfast

9:00 AM – 10:30 AM

**Plenary Session V**

**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**

**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**

**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**

1:30PM – 3:00PM

Strategic Planning Meeting (*Invitation only; Lunch)*

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**

Continental Breakfast

9:00 AM – 10:30 AM

**Concurrent Session 5**

**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**

**Microvascular Function and Dysfunction in Sepsis and Injury**

**Moderators**

Kalev Freeman MD PhD, University of Vermont

Jérémie 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**

**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**

**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**

**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**

**Emerging Topics**

**Moderators**

Mashkoor 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 Anamthathmakula 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**

**Moderator**

Marlene Starr PhD, University of Kentucky College of Medicine

**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**

**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

Letitia Bible MD, University of Florida

Social Variables in Trauma Including Chronic Stress/Bone Marrow Dysfunction

**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)

6:30PM – 7:00PM

**Cocktail Half Hour**

7:00PM – 9:30PM

**Dinner and Awards Banquet**