



UNIVERSITY OF PITTSBURGH
SCHOOL OF MEDICINE
DEPARTMENT OF SURGERY

Fourteenth Annual Richard L. Simmons Lecture in Surgical Science and Department of Surgery Research Day

Wednesday, May 11, 2016
University Club
Ballrooms A and B



University of Pittsburgh

School of Medicine
Department of Surgery

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SCHEDULE

- 7:30–8 a.m. Poster Viewing
Ballrooms A and B
- 8–9 a.m. **Richard L. Simmons Lecture
in Surgical Science**
Ballroom A
*“Trauma Care: A Case Study in
Translating Research into Policy”*
- Avery B. Nathens, MD, PhD, FRCS(C)**
Surgeon-in-Chief,
Sunnybrook Health Sciences Centre
Professor of Surgery,
University of Toronto
DeSouza Chair in Trauma Research
- 9–9:30 a.m. Poster Viewing/Break
Ballrooms A and B
- 9:30–10:45 a.m. Oral Presentations
Session 1
Ballroom A
- 10:45–11:15 a.m. Poster Viewing/Break
Ballroom B
- 11:15 a.m.–12:30 p.m. Oral Presentations
Session 2
Ballroom A
- 12:30–2 p.m. Buffet Luncheon
Ballroom B

SESSION 1

- 9:30–9:45 a.m. **Dongmei Liu, MD**
“Quantification of Cumulative Multiple Organ Dysfunction Scores Identifies Phenotypic Clusters and Biomarker Patterns in Blunt Trauma Patients”
- 9:45–10 a.m. **Samer Tohme, MD**
“Hypoxia Mediates Mitochondrial Biogenesis in Hepatocellular Carcinoma to Promote Tumor Growth via HMGB1 and TLR9 Interaction”
- 10–10:15 a.m. **Qian Sun, PhD**
“Cytosolic HMGB1 is Essential for Activating the AIM2 Inflammasome and Hepatoprotection after Hemorrhagic Shock in Mice”
- 10:15–10:30 a.m. **Anthony Lewis, MD**
“Timing of Antibiotics Modulates Inflammation and Affects Survival in a Biotelemetry-Enhanced Murine Model of Sepsis”
- 10:30–10:45 a.m. **Jennifer Miller, MD**
“PAD4-Mediated NETosis Leads to Increased Carcinogenesis in Murine Pancreatic Cancer Models through an HMGB1-Dependent Mechanism”

SESSION 2

- 11:15–11:30 a.m. **Paul Waltz, MD**
“Heme Oxygenase-1/Carbon Monoxide Treatment of Trauma Prevents Subsequent Infection and Susceptibility in a Murine Model via Modulation of Macrophage”
- 11:30–11:45 a.m. **Mitchell Dyer, MD**
“Improved Hemostasis Following Trauma Using Plateletmimicking Intravenous Synthetic Hemostat Nanotechnology”
- 11:45 a.m.–Noon **Kellie Cunningham, MD**
“Ca²⁺/Calmodulin-Dependent Kinase IV Contributes to Intestinal Inflammation During Murine Colitis”
- Noon–12:15 p.m. **Andrew Yeh, MD**
“The Microbiota of Five Body Sites in Critically Ill Adult Surgical Patients is Highly Disordered and Unstable”
- 12:15–12:30 p.m. **Stacy Kowalsky, MD**
“Non-Steroidal Anti-Inflammatory Drug (NSAID) Use Independently Increases Risk of Post-Operative Pancreatic Fistula Following Pancreaticoduodenectomy”

