DEPARTMENT OF SURGERY'S ANNUAL
RESEARCH SYMPOSIUM

Wednesday, May 19, 2021
Health Sciences Innovation Building
7:00-8:20 AM  ORAL PRESENTATIONS

8:30-9:00 AM  DEPARTMENT OF SURGERY INVITED FACULTY TALKS:
Dr. Lilah Morris-Wiseman
Dr. Tze-Woei Tan

9:00-10:00 AM  QUICK SHOT PRESENTATIONS

10:00-11:00 AM  GRAND ROUNDS
Dr. Ronald V. Maier
Jane & Donald D Trunkey Endowed Chair in Trauma Surgery
Vicechairman and Professor
Department of Surgery
Washington School of Medicine
Dear attendees,

On behalf of the University of Arizona Department of Surgery, we would like to welcome you to the Annual Department of Surgery Research Symposium, which showcases research projects throughout our department. This is an exciting gathering of faculty, researchers, fellows, and students.

The symposium consists of keynote lectures, oral sessions, quick shot presentations and networking. It promotes the sharing of current research projects, processes, and accomplishments as well as provides the opportunity for research to be reviewed by peers. Following each presentation, faculty and students alike can debate the research topic at hand, ask questions, and provide commentary.

It is our pleasure to welcome our guest speaker Ronald Maier, MD, FACS. Maier is vice-chair of the Department of Surgery at the University of Washington and is an expert in trauma care, emergency surgery and critical care. He conducts research on clinical approaches to improve survival after severe injuries and life-threatening surgical illness.

We look forward to another exciting year of new innovations, exchanging ideas, and opportunities for collaborations. Enjoy the event!

BELLAL A. JOSEPH, MD, FACS
Chief, Division of Acute Care & Trauma
Vice Chair of Research
UNIVERSITY OF ARIZONA

Dr. Maier holds the Jane and Donald D. Trunkey Chair of Trauma Surgery and is Professor and Vice-Chair of the Department of Surgery at the University of Washington. He is the Director of the Regional Trauma Center and Surgeon-in-Chief at Harborview Medical Center, the Level I Trauma Center in Seattle, WA.

Dr. Maier graduated magna cum laude from the University of Notre Dame, obtained his MD degree from Duke University, and completed his General Surgery residency at the University of Washington, after which he completed a post-doctoral fellowship in Immunopathology at the Scripps Research Foundation.

He has served in numerous national and international leadership positions, including past-President of the American Surgical Association, American College of Surgeons, Society of University Surgeons, American Association for the Surgery of Trauma, Surgical Infection Society, North American Trauma Association, and International Association of Trauma, Surgery and Intensive Care of the International Surgical Society. He has received numerous honors for his research, teaching and clinical trauma work, including the Medal for Lifetime Achievement, International Society of Surgery/Societe Internationale de Chirurgie (ISS/SIC), 2017.

Throughout his career, Dr. Maier has been interested in the critically-ill surgical patient, focusing on underlying pathophysiology driving the aberrant host immuno-inflammatory response, and subsequent clinical syndrome of multiple organ failure with its attendant high morbidity and mortality. He has been funded continuously by the NIH since 1981. His long-standing interest in trauma has involved extensive clinical studies of the acute management of the severely injured and critically ill patient, and a number of studies investigating the impact of trauma system development on improvement in trauma care and outcomes of the severely injured. He has delivered more than 400 lectures on trauma, critical care medicine and surgical immunology, published over 400 peer-reviewed articles, and contributed to and co-edited 60+ book chapters and books.

Keynote Guest Speaker

RONALD V. MAIER, MD, FACS

"Precision Medicine in the Injured Patient"

Livestream Dr. Maier’s presentation at: streaming.biocom.arizona.edu/streaming/29602/event
OMAR OBAID
GROUND-LEVEL FALLS IN GERIATRICS ARE LOW-IMPACT INJURIES WITH HIGH-IMPACT CONSEQUENCES: HOW DOES FRAILTY FACTOR IN?

MARK EDWARDS
EXTRACRANIAL CAROTID ATHEROSCLEROSIS IS ASSOCIATED WITH INCREASED NEUROFIBRILLARY TANGLE ACCUMULATION.

EMILY WUSTERBARTH
CARTILAGE OLIGOMERIC MATRIX PROTEIN, COMP IS A BETTER PROGNOSTIC MARKER THAN CEACAM5 AND CORRELATES WITH COLON CANCER MOLECULAR SUBTYPES, TUMOR AGGRESSIVENESS AND OVERALL SURVIVAL.
Research Presentations ORAL

**SARAH FERMAWI**

*The Influence of Rural Disparities on Outcomes of Diabetic Foot Infections*

**YAZAN ASHOURI**

*Lymphadenectomy in Open vs Minimally Invasive Pancreaticoduodenectomy*

**MAYA EL GHOUAYEL**

*The Impact of Navigation Grid Overlay on Performance of Camera Assistants During Laparoscopic Abdominal Procedures: A Randomized Controlled Trial*
MOHAMMAD CHEHAB
OPEN VS. ENDOVASCULAR TREATMENT OF TRAUMATIC PERIPHERAL ARTERIAL INJURIES: A PROPENSITY MATCHED ANALYSIS

KATHERINE HO
THE IMPACT OF INTENSIVE LAPAROSCOPIC TRAINING COURSE WITH STRUCTURED ASSESSMENT AND IMMEDIATE FEEDBACK ON RESIDENTS’ OPERATIVE PERFORMANCE IN ANIMAL LAB

EKTA MINOCHA
DIFFERENTIATION AND FUNCTIONAL CHARACTERIZATION OF HEPATOCYTES DERIVED FROM INDUCED PLURIPOTENT STEM CELLS FROM PATIENTS WITH NON-ALCOHOLIC STEATOHEPATITIS (NASH)
Research Presentations ORAL

BYUNG-HYUN CHA
HYBRID ALLOSTERIC RECEPTOR (HAR) - ENGINEERED MESENCHYMAL STEM CELLS (MSCS) FOR ACUTE MYOCARDIAL INFARCTION
LILAH MORRIS-WISEMAN, MD, FACS

TALK TITLE:
Towards Diversity, Inclusion, and Equity in Academic Surgery: Addressing the Leaky Pipeline for Surgical Residency

Dr. Lilah Morris-Wiseman is an Endocrine and General Surgeon, Associate Professor of Surgery at the University of Arizona, and Associate Program Director of the General Surgery Residency. Her work in surgical education is centered on creating a learning environment that demands clinical excellence through thoughtful and evidence-based educational techniques while also promoting emotional intelligence, wellbeing, and interpersonal support to foster success in a diverse training environment. She is working to foster diversity, equity, and inclusion in surgical training through leadership of the DEI Toolkit Project through the Association of Program Directors in Surgery, Co-Chair of the Anti-Racism in Medicine Faculty and Resident Recruitment and Retention Committee in the College of Medicine, and through a mult-institution grant to study challenges and best practices to promote success for underrepresented trainees.
Dr. Tan is a Vascular Surgeon and Associate Professor of Surgery at the University of Arizona with a long-standing interest in understanding the determinants of racial/ethnic disparities in leg amputation. He is the recipient of a K23 Mentored Patient-Oriented Research Career Award, which seeks to understand the disparities in limb salvage among Hispanics and Native Americans with diabetes and peripheral artery disease.
Research Presentations  QUICK SHOT

MAYA EL GHOUAYEL
THE IMPACT OF PREOPERATIVE ANEMIA ON SHORT TERM SURGICAL OUTCOMES IN PATIENTS UNDERGOING COLECTOMY FOR COLON CANCER

NINA POLLACK
THE ROLE OF FIBRINOGEN CONCENTRATE IN MASSIVELY TRANSFUSED PATIENTS

HELEN HO
TRENDS IN UTILIZATION AND PERIOPERATIVE OUTCOMES IN ROBOTIC-ASSISTED BARIATRIC SURGERY USING THE MBSAQIP DATABASE: A 4-YEAR ANALYSIS
OMAR OBAID
SUBCELLULAR VIABILITY SIGNATURES AFTER ENERGY-ENHANCED EX VIVO PERFUSION AND PROLONGED STATIC COLD STORAGE OF THE HIND LIMB

DIEGO URBINA
DISPARITIES OF HEALTH CARE ACCESS AMONG HISPANICS AT-RISK OF LOWER EXTREMITY AMPUTATION

JOSEPH RICHARDS
PREDICTORS OF MORTALITY IN BLUNT CARDIAC INJURY: A NATIONWIDE ANALYSIS
SEUNGMIN HAN
PEPTIDE ADJUVANT TO RESTORE CYTOTOXICITY OF NK CELLS ON OBESE-CANCER MODEL

KATHERINE HO
PREPARATION FOR CHALLENGING CASES: WHAT DIFFERENTIATES EXPERT FROM NOVICE SURGEONS?

ROSEMARIE TURK
FIBRINOGEN CONCENTRATE VERSUS CRYOPRECIPITATE: WHAT IS THE IDEAL FIBRINOGEN SUPPLEMENT IN TRAUMA?
Mohammad Hamidi

How Does Splenic Angiembolization Compare to Splenectomy in High-Grade Blunt Splenic Injuries: Splenic Preservation, a Lost Art

Ashwani Gupta

Air-Liquid Interface Facilitates Efficient Nephrogenesis in the Human Pluripotent Stem Cell Derived Kidney Organoids

Alyssa Lane

Adherence Rates and Opportunities for Improvement - VTE Prophylaxis on the BUMC-T Trauma Service
YAZAN ASHOURI

GALLBLADDER CANCER SURGERY IN THE UNITED STATES: LYMPHADENECTOMY TRENDS AND IMPACT ON SURVIVAL

DAVID AHMADIAN

PREVALENCE OF DEPRESSION BETWEEN VARIOUS ETHNIC GROUPS IN A DIVERSE COHORT OF ORTHOPAEDIC PATIENTS AS MEASURED BY PHQ-9
Thank you for attending the 2021 Department of Surgery Research Symposium

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