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 for Knowledge Expansion
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, 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, and has published over 400 peer-reviewed articles, and contributed to and co-edited 60+ book chapters and books.
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 PANCREATODUODENECTOMY

MAYA EL GHOUAYEL
THE IMPACT OF NAVIGATION GRID OVERLAY ON PERFORMANCE OF CAMERA ASSISTANTS DURING LAPAROSCOPIC ABDOMINAL PROCEDURES: A RANDOMIZED CONTROLLED TRIAL
Research Presentations  ORAL

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, joined the Department of Surgery at the University of Arizona in 2017, after practicing endocrine and general surgery in the Tucson community since 2014. After finishing her residency in general surgery at the University of California, Los Angeles, she went on to complete a fellowship in endocrine surgery at MD Anderson Cancer Center in Houston, TX. She has co-authored more than 40 peer reviewed publications, book chapters, and invited reviews.

In her clinical practice, Dr. Morris-Wiseman performs a variety of general surgery procedures. She specializes in evaluating and treating surgical diseases of the endocrine system including: thyroid, parathyroid, and adrenal glands utilizing advanced and minimally invasive endocrine surgical techniques. She works with a multidisciplinary team to evaluate and treat patients with neuroendocrine tumors. She has special expertise in treating endocrine diseases with a genetic component.
Dr. Tze-Woei Tan, MBBS, FACS, joined the University of Arizona Division of Vascular Surgery as an assistant professor in December 2016.

Dr. Tan is a native of Malaysia and earned his medical degree from the University of Melbourne, Australia. He completed general surgery internship and residency at the Warren Alpert School of Medicine at Brown University and a vascular surgery fellowship at Boston University Medical School and Public Health in Boston, MA. Prior to joining the University of Arizona, Dr. Tan was an assistant professor of surgery, assistant program director, and director of endovascular services at Louisiana State University Health Sciences Center in Shreveport, LA.
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 OBESITY-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 ANGIOEMBOLIZATION 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
Research Presentations

**Quick Shot**

**YAZAN ASHOURI**

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

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**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
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