

Memo

TO: University of Maryland School of Medicine

FROM: Gregory B. Carey, Ph.D., Associate Professor of Microbiology and Immunology,
Executive Director of Student Research and Community Outreach

Miriam K. Laufer, M.D., M.P.H., Professor of Pediatrics
Assistant Dean for Student Research and Education
Director of the Office of Student Research

Qi Cao, J.D., Research Coordinator

Eileen M. Eldridge, Administrative Assistant

Sarah Helman, MS IV
Autusa Pahlavan, MS IV
Alpha Omega Alpha Medical Honor Society, University of Maryland School of Medicine
MSRD Event Coordinators

DATE: November 19, 2020

RE: **43rd Annual Medical Student Research Day 2020 Student Award Recipients**

On behalf of the Office of Student Research and the Alpha Omega Alpha (AOA) Honor Society, we would like to congratulate all of the student award recipients for the 43rd Annual Medical Student Research Day (MSRD) held virtually on November 12-13, 2020. MSRD is a proud tradition for the University of Maryland's medical students to present their research accomplishments to the school and the campus. The presentations are judged, and competitive placements are awarded in recognition of outstanding research and presentations. This year, 56 presentations were held during seven presentation sessions. Out of the medical students who participated in MSRD, 16 received First or Second awards in their respective presentation sessions.

We extend our sincerest thanks and appreciation to all the judges, mentors, participants, and attendees.

Attached are the names of student award recipients, the names of their mentors and co-investigators, and the titles of their presentations.

43rd Annual Medical Student Research Day 2020 Award Recipients (By Presentation Session)

Oral Session I	Oral Session V
<u>First Place:</u> Madalyn Myers, MS II	<u>First Place:</u> Shreya Singireddy, MS II
<u>Second Place:</u> Trisha Miglani, MS II	<u>Second Place:</u> Laura Chen, MS II
Oral Session II	Poster Session I
<u>First Place:</u> Francia Fang, MS II	<u>First Place:</u> Monica Taneja, MS II
<u>Second Place:</u> Rachel Cermak, MS II	<u>Second Place:</u> Matthew Chrencik, MS II
Oral Session III	Poster Session II
<u>First Place:</u> Alexis Green, MS II	<u>First Place:</u> Lawrance Lee, MS IV & Cecelia Kim, MS IV & Joshua Finkel, MS IV (co-presenters)
<u>Second Place:</u> Natalia Sampaio Moura, MS II	<u>Second Place:</u> Bailey Howard, MS IV
Oral Session IV	
<u>First Place:</u> Jacqueline Hwang, MS II	
<u>Second Place:</u> Yamini Vyas, MS II	

Presentation Abstract Titles (By Award Recipient)

OPIOID OVERDOSE RISK FACTORS IN PWID RECEIVING HCV TREATMENT. Rachel Cermak*, Elana Rosenthal, and Sarah Kattakuzhy, Division of Infectious Disease, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

NON-O BLOOD GROUP AND RISK OF EARLY-ONSET ISCHEMIC STROKE IN ORAL CONTRACEPTIVE USERS. Laura Chen*, Thomas Jaworek¹, Kathleen Ryan², Brady Gaynor², Allen Liu³, and Steven Kittner⁴, ²Division of Division of Endocrinology, Diabetes and Nutrition, ¹Department of Medicine and ⁴Division of Stroke and Cerebrovascular Diseases, Department of Neurology, ³University of Maryland School of Medicine, Baltimore, MD.

PREOPERATIVE CHARACTERISTICS PREDICTIVE OF PROMIS PAIN INTERFERENCE TWO YEARS AFTER SHOULDER SURGERY. Matthew Chrencik*, Dominic Vetimiglia¹, Matheus Schneider¹, Tina Zhang¹, Mohit Gilotra¹, and R. Frank Henn, III², ²Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

OPIOID PRESCRIBING PATTERNS IN AN ACADEMIC ORTHOPEDIC SETTING. Francia Fang*, Tristan Weir, Casey Codd, and Joshua Abzug, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

PSEUDOMONAS AERUGINOSA BACTEREMIA AND THE NEED FOR FOLLOW-UP BLOOD CULTURES. Alexis Green*, Lyndsay O'Hara, Lisa Pineles, Scott Sorongon, Anthony Harris⁴, and Jonathan Baghdadi, Division of Genomic Epidemiology and Clinical Outcomes, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

INTERPROFESSIONAL APPROACH TO EDUCATING MEDICAL STUDENTS ON PEDIATRIC MEDICATION TASTE AND PALATABILITY. Bailey Howard*, Jessica Biggs¹, MacKenzie Crist², Omamyia Kishk³, Rebecca Carter⁴, and Regina Macatangay⁵, ¹Division of

Newborn Intensive Care Unit, ²Division of Pediatrics and Oncology, and ³Division of Pediatrics, Department of Pharmacology, University of Maryland, Baltimore, and ⁵Division of Hematology and Oncology, ⁴Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

TARGETING BRAF MUTANT MELANOMA WITH NOVEL HSP90, BRAF, AND MEK INHIBITOR COMBINATION THERAPY. Jacqueline Hwang*, Emmanuel Unni¹, Sandeep Joshi¹, and Thomas Hornyak², ¹Department of Biochemistry and Molecular Biology and ²Department of Dermatology, University of Maryland School of Medicine, Baltimore, MD.

FACTORS ASSOCIATED WITH BLEEDING COMPLICATIONS IN TRACHEOSTOMY PATIENTS. Lawrance Lee*, Cecelia Kim*, Joshua Finkel*, and Mira Ghneim, Division of Surgical Critical Care, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

NOVEL ULTRASOUND BIOMICROSCOPY IMAGE ANALYSIS TECHNIQUE OF HUMAN IRIS USING IMAGEJ SOFTWARE: INTRA-OBSERVER REPEATABILITY AND INTER-OBSERVER AGREEMENT. Trisha Miglani*, Michael Chang¹, Moran Levin², and Janet Alexander², ²Department of Ophthalmology and Visual Sciences, ¹University of Maryland School of Medicine, Baltimore, MD.

ASSOCIATIONS BETWEEN THIRD TRIMESTER ULTRASOUND AND GLUCOSE TESTING. Madalyn Myers*, Sarah Crimmins¹, Lucille Martin², Emad Elsamadicy³, Tabitha Quebedeaux³, and Jerome N. Kopelman³, ¹Division of Maternal and Fetal Medicine, ³Department of Obstetrics, Gynecology and Reproductive Sciences, ²University of Maryland School of Medicine, Baltimore, MD.

INVESTIGATING THE ROLE OF HEPATITIS B SURFACE ANTIGEN LEVEL IN HUMORAL IMMUNITY IN PATIENTS WITH CHRONIC HEPATITIS B TO FIND SEROCONVERSION BIOMARKERS. Natalia Sampaio Moura*, Alip Ghosh¹, Lydia Tang², Bhawna Poonia², and Shyam Kottlil³, ¹Division of Basic Science and Vaccine Research, Institute of Human Virology, University of Maryland School of Social Work and ²Division of Basic Science and Vaccine Research and ³Division of IHV Clinical Research Unit, Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD.

MINIMALLY ISCHEMIC CARDIAC PRESERVATION TECHNIQUES IMPROVE OUTCOMES IN LIFE-SUPPORTING CARDIAC XENOTRANSPLANTATION. Shreya Singireddy* and Muhammad Mohiuddin, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

ANEMIA, SEX, AND RACE AS PREDICTORS OF MORBIDITY AND MORTALITY AFTER KNEE ARTHROPLASTY SURGERY. Monica Taneja*, Michael Mazzeffi¹, Magali Fontaine², Steven M. Frank³, and Kenichi Tanaka¹, ¹Department of Anesthesiology, University of Maryland School of Law and ²Department of Pathology, University of Maryland School of Medicine, and ³Department of Anesthesiology and Critical Care Medicine, Johns Hopkins University School of Medicine, Baltimore, MD.

MR-GUIDED FOCUSED ULTRASOUND (MRGFUS)-MEDIATED BLOOD-BRAIN BARRIER DISRUPTION OF MALIGNANT GLIOMAS IN RAT MODELS. Yamini Vyas*, Pavlos Anastasiadis¹, Jeffrey Winkles², and Graeme Woodworth¹, ¹Department of Neurosurgery, and ²Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.