

Memo

TO: University of Maryland School of Medicine

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

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DATE: October 2, 2017

RE: **40th Annual Medical Student Research Day 2017 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 award recipients for the 40th Annual Medical Student Research Day (MSRD) held on September 28, 2017. 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, 78 presentations were held during eight presentation sessions. Out of the medical students who participated in MSRD, 19 received First, Second, or Third Place 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 award recipients, the names of their mentors and co-investigators, and the titles of their presentations.

40th Annual Medical Student Research Day 2017 Award Recipients
(By Presentation Session)

Oral Session I

First Place: Anna Patnaik, MS II
Second Place: Olivia Uddin, MS II

Oral Session II

First Place: Justin Brilliant, MS II
Second Place: Parth Patel, MS II

Oral Session III

First Place: Ankur Vaidya, MS II
Second Place: Arielle Brackett, MS II

Oral Session IV

First Place: Sarah Kaslow, MS IV
Second Place: Kali Stevens, MS II

Oral Session V

First Place: Darpan Kayastha, MS II
Second Place: Corinne Renner, MS II &
Breanna Tracey, MS II
(co-presenters)

Poster Session I

First Place: Maliha Zainib, MS II
Second Place: Allison Durham, MS II
Third Place: Molly Burgoyne, MS II

Poster Session II

First Place: Megan Lerner, MS II
Second Place: Yinglun Wu, MS II
Third Place: Huanwen Chen, MS II

Poster Session III

First Place: Shuna Gao, MS II
Second Place: Phelan Shea, MS III
Third Place: Ashley Klein, MS II

Presentation Abstract Titles
(By Award Recipient)

ROBUSTNESS OF DOSIMETRIC PLANNING IN ACCOUNTING FOR RECTAL VOLUME UNCERTAINTY DURING PROTON RADIATION OF THE PROSTATE. Arielle Brackett*, Adeel Kaiser, and Mingyao Zhu, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

DECELLULARIZED RAT LIVER SCAFFOLDS PROMOTE THE ENGRAFTMENT OF FUNCTIONAL ALLOGENIC NEONATAL HEPATOCYTES INTRODUCED VIA THE BILE DUCT. Justin Brilliant*, John LaMattina¹, Wessam Hassanein², and Parth Patel³, ¹Division of Transplant, ²Department of Surgery, ³University of Maryland School of Medicine, Baltimore, MD.

PEDIATRIC ECG SCREENING FOR LEFT VENTRICULAR HYPERTROPHY. Molly Burgoyne* and Geoffrey Rosenthal, Division of Pediatric Cardiology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

CHARACTERIZING THE EFFECTS OF CELL PASSAGING ON TRANSPLANTING HUMAN NEURAL CREST STEM CELLS FOR PERIPHERAL NERVE INJURY REPAIR. Huanwen Chen*, Jian Du, Kailiang Zhou, and Xiaofeng Jia, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

ARTESUNATE SYNERGIZES WITH OTHER BCL-2 FAMILY INHIBITORS IN AML AND ALL CELL LINES. Allison Durham*, Blake Moses¹, and Curt Civin², ¹ Center for Stem Cell Biology and Regenerative Medicine, Department of Medicine, University of Maryland School of Medicine, and ²Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

CORRELATING PERI-ICTAL MOOD SCORES WITH HIPPOCAMPAL VOLUMES IN PATIENTS WITH EPILEPSY. Shuna Gao*, Kaitlin Jeffries¹, Erin Lanzo¹, Kathryn Grimes¹, Scott Thompson², and Jennifer Hopp³, ²Department of Physiology and ³Division of Epilepsy, Department of Neurology, ¹University of Maryland School of Medicine, Baltimore, MD.

HEALTHCARE REFORM IN MARYLAND: IMPACT ON VENTRAL HERNIA REPAIR. Sarah Kaslow*, Gina Adrales¹, Miloslaw Stem², and Joseph Canner³, ¹Division of Minimally Invasive Surgery, ²Department of Surgery, Johns Hopkins School of Medicine and ³Johns Hopkins Surgery Center for Outcomes Research, Baltimore, MD.

CROSS-COMMUNICATION BETWEEN LEUKOCYTES TRIGGERS DIFFERENTIAL IMMUNE RESPONSES AGAINST *SALMONELLA ENTERICA* SEROVARS TYPHI AND PARATYPHI. Darpan Kayastha*, Rosangela Mezghanni, Haiyan Chen, and Marcelo Sztejn, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD.

INVESTIGATION OF ROTATOR CUFF FATTY INFILTRATION IN A RABBIT INJURY MODEL. Ashley Klein*, Katherine Mistretta¹, Jim Lai², Ana Valenica², and Mohit Gilotra², ²Department of Orthopaedics, ¹University of Maryland School of Medicine, Baltimore, MD.

USE OF MESENCHYMAL STEM CELLS TO TREAT MUSCLE STRAIN INJURIES. Megan Lerner*, Richard M. Lovering, Shama R. Iyer, Joseph P. Stains, Craig H. Bennett, and R. Frank Henn III, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

RE-ENDOTHELIALIZATION OF DE-ENDOTHELIALIZED RAT LIVERS. Parth Patel*, John LaMattina¹, Wessam Hassanein², and Justin Brilliant³, ¹Division of Transplant, ²Department of Surgery, ³University of Maryland School of Medicine, Baltimore, MD.

THE EFFECTS OF EARLY NICOTINE EXPOSURE ON CORTICOTHALAMIC PATHWAYS. Anna Patnaik*, Lola Akintola, Charlie Raver, and Asaf Keller, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

OBSERVATION OF ERYTHROCYTE DYNAMICS IN THE OCULAR MICROVASCULATURE. Corinne Renner*, Breanna Tracey*, and Osamah Saeedi, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

WOUND SURFACE AREA AS A RISK FACTOR FOR FLAP COMPLICATIONS AMONG PATIENTS WITH OPEN FRACTURES. Phelan Shea*, Sheila Sprague¹, Mohit Bhandari², Brad Petrisor³, Kyle Jeray⁴, and Raymond Pency⁵, ¹Department of Health Research Methods, Evidence and Impact, McMaster University and ²Division of Orthopaedic Surgery, Department of Surgery and ³Division of Orthopaedic Surgery, Department of Surgery, McMaster University School of Medicine, Hamilton, Ontario, Canada, ⁴Department of Orthopaedics, Greenville Health System, Greenville, SC, and ⁵Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

PREOPERATIVE PATIENT EXPECTATIONS OF KNEE SURGERY. Kali Stevens*, Julio Jauregui¹, Vidushan Nadarajah¹, Shaun Medina¹, Michael Smuda¹, and R. Frank Henn III², ²Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

SEROTONERGIC CIRCUITS IN CHRONIC PAIN. Olivia Uddin*, Asaf Keller, Alberto Castro, and Charlie Raver, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

OUTCOMES AND PATTERNS OF FAILURE FOLLOWING RADIOTHERAPY IN THYMIC NEOPLASMS. Ankur Vaidya* and Charles Simone, Proton Center, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

EFFECTS OF 1-BENZYLIMIDAZOLE AND GENE MODIFICATIONS ON EICOSANOID AND LEUKOTRIENE SYNTHESIS IN XENOGRAFT LUNG PERFUSION AND TRANSPLANTATION MODELS. Yinglun Wu*, Richard Pierson, Agnes Azimzadeh, and Lars Burdorf, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

MULTICENTER REPORT ON TOXICITIES OF CONCURRENT NIVOLUMAB AND RADIATION THERAPY. Maliha Zainib*, Pranshu Mohindra¹, Zeljko Vujaskovic², Charles Simone¹, and Neha Amin¹, ²Division of Translational Radiation Sciences, ¹Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.