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

Qi Cao, J.D., Research Coordinator

Christian Larsen, MS IV, President of Maryland Beta Chapter, Alpha Omega Alpha Medical Honor Society, University of Maryland School of Medicine, MSRD Event Coordinator

Rachel W. Smith, MS IV, Member of Maryland Beta Chapter, Alpha Omega Alpha Medical Honor Society, University of Maryland School of Medicine, MSRD Event Coordinator

DATE: September 25, 2015

RE: Medical Student Research Day 2015 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 38th Annual Medical Student Research Day (MSRD) held on September 17, 2015. 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, 57 presentations were held during seven presentation sessions. Out of the medical students who participated in MSRD, 26 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.
Medical Student Research Day 2015 Award Recipients
(By Presentation Session)

Oral Session I
First Place: Graham Trent, MS II
Second Place: Ramita Dewan, MS II
Third Place: Jackline Joy Lasola, MS II

Oral Session II
First Place: Kalyani Kumar, MS II
Second Place: Serena Yin, MS II
Third Place: Sara Francomacaro, MS II

Oral Session III
First Place: Michael Lu, MS II
Second Place: Sarah Chang, MS II
Third Place: Keir Ross, MS II

Oral Session IV
First Place: Nisha Donthi, MS II
Second Place: Clare DeLaurentis, MS II
Third Place: Stephen Klepfer, MS II & Carlos Rivera, MS II (co-presenters)

Poster Session I
First Place: Nancy Ye, MS II
Second Place: Elena Donald, MS II
Third Place: Solomon Hayon, MS III & Michael Huffner, MS III (co-presenters)

Poster Session II
First Place: Leila Bahmani Kazerooni, MS II
Second Place: Jennifer Reid, MS II
Third Place: a tie among Neal Desai, MS II & Jonathan Danquah, MS IV (co-presenters), Greer Waldrop, MS II, and Jing Xiang, MS II

Poster Session III
First Place: Vivian Shi, MS II
Second Place: Sarah Doran, MS II
Third Place: Kathryn Grimes, MS II

Presentation Abstract Titles
(By Award Recipient)

DIFFERENTIAL EXPRESSION OF GENES INVOLVED IN WOUND HEALING BY NEONATAL AND ADULT DERMAL FIBROBLASTS. Leila Bahmani Kazerooni* and Sripriya Sundararajan, 1Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

IN-VITRO EVALUATION OF BREAST PROSTHETIC IRRIGATION SOLUTION EFFECT ON BIOFILM. Sarah Chang*, Karan Chopra, Devinder Singh, and Yvonne Rasko, Division of Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

THE RATES OF PARENTAL STRESS IN A PEDIATRIC OPHTHALMOLOGY POPULATION. Clare DeLaurentis*, Osamah Saeedi1, Sachin Kalarn1, Lorraine Tran2, and Roni Levin1, 1Department of Ophthalmology and Visual Sciences and 2Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD.

EFFICACY OF PAIN CONTROL IN POST-RENAL TRANSPLANT PATIENTS USING TRANSABDOMINAL PLANE NERVE BLOCK WITH BUPIVICAINE/LIPOSOMAL BUPIVICAINE MIXTURE. Neal Desai*, Jonathan Danquah*, Neal Desai, and Paul Bigeleisen, Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.
WHOLE-EXOME SEQUENCING AND COPY-NUMBER VARIATION ANALYSIS OF 20 NEUROFIBROMATOSIS TYPE 2-ASSOCIATED SPINAL AND INTRACRANIAL MENINGIOMAS. Ramita Dewan*, Alexander Pemov, Ashok Asthagiri, and Douglas Stewart. Clinical Genetics Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD and Department of Neurosurgery, University of Virginia, Charlottesville, VA.

OUTCOMES OF NEWBORN SCREENING FOR CRITICAL CONGENITAL HEART DISEASE (CCHD) AT UNIVERSITY OF MARYLAND CHILDREN'S HOSPITAL. Elena Donald*, Maura Heffernan, and Natalie Davis. Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

DEVELOPMENT OF NOVEL PREDICTIVE ALGORITHMS FOR RETINOPATHY OF PREMATURITY (ROP). Nisha Donthi*, Osamah Saeedi, Janet Alexander, and Sachin Kalarn. Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

MMP9 AND ACTIVATED MACROPHAGES ARE INCREASED IN THE BRAIN 30 DAYS AFTER POLYTRAUMA. Sarah Doran*, Philip Chan, Julie Proctor, Adam Puche, and Gary Fiskum. Department of Medicine, Tufts University School of Medicine, Boston, MA and Department of Anesthesiology and Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

IMMUNOMODULATION OF POST-NAION M1 UPREGULATION WHEN TREATING WITH IL4, TGFΒ, AND GLATIRAMER ACETATE (COPAXONE) IN A RODENT MODEL. Sara Francomacaro*, Zara Mehrabyan, and Steven Bernstein. Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

CORRELATING PERI-ICTAL MOOD SCORES TO HIPPOCAMPAL VOLUME IN PATIENTS WITH EPILEPSY. Kathryn Grimes*, Maureen Cassady, Serena Yin, Scott Thompson, and Jennifer Hopp. Department of Neurology and Department of Physiology, University of Maryland School of Medicine, Baltimore, MD.

TREATMENT OF FOCAL AORTIC DISEASE BY TEVAR: HIGH SUCCESS, LOW MORBIDITY AND MORTALITY. Solomon Hayon*, Michael Huffner, Donald Harris, Solomon Hayon, Michael Huffner, and Robert Crawford. Department of Surgery and Division of Vascular, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

LIVER BIOENGINEERING: NEONATAL RECELLULARIZATION OF AN ADULT RAT LIVER SCAFFOLD. Stephen Klepfer*, Carlos Rivera-Pratts, Wessam Hassanein, Mehmet Uluer, Dawn Parsell, and John LaMattina. Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

BCL-2 INHIBITORS AND ARTEMISININS COOPERATE AGAINST LEUKEMIAS. Kalyani Kumar, Jennifer Fox, Xiaochun Chen, and Curt Civin. Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

EFFECTS OF REVASCULARIZATION ON MICROVASCULAR PERFUSION AND PHYSICAL FUNCTION IN PATIENTS WITH PERIPHERAL ARTERY DISEASE. Michael Lu*, Odessa Addison, and Steven Prior, Division of Gerontology and Geriatric Medicine, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

IRON STATUS AND HOUSEHOLD WEALTH: A CROSS-SECTIONAL STUDY ON INFANT DEVELOPMENT IN RURAL INDIA. Jennifer Reid*, Nicholas Tilton, and Maureen Black, Division of Growth and Nutrition, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

AUTOLOGOUS OSTEOCHONDRAL TRANSPLANTATION FOR OSTEOCHONDRAL LESIONS OF THE TALUS: DOES PREVIOUS BONE MARROW STIMULATION AFFECT CLINICAL OUTCOME? Keir Ross*, Andrew Ross1, Ethan Fraser2, Timothy Deyer3, and John Kennedy2, 1Touro College of Osteopathic Medicine, 2Division of Foot and Ankle, Department of Orthopaedics, Hospital for Special Surgery, and 3East River Imaging, New York, NY.

MORPHOLOGICAL AND FUNCTIONAL CHANGES IN RETINAL INTERNEURON POPULATIONS IN A HUNTINGTON'S DISEASE RAT MODEL. Vivian Shi*, Steven Bernstein, and Mary Johnson, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

OF EARS AND TEETH - AN UNEXPECTED CONNECTION. Graham Trent*, Maggie Matern, Lorna Silipino, and Ronna Hertzano, Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

IMPACT OF CHANGES IN URINE CULTURE ORDERING PRACTICES ON ANTIMICROBIAL UTILIZATION IN INTENSIVE CARE UNITS AT AN ACADEMIC MEDICAL CENTER. Greer Waldrop*, Surbhi Leekha1, Mohamed Sarg2, Mona Beier1, and Emily Heil2, 1Department of Epidemiology and Public Health, University of Maryland School of Medicine, and 2Department of Pharmacology, University of Maryland School of Pharmacy, Baltimore, MD.

THE PRESENCE AND ROLE OF EXOSOMES IN YOUNG WOMEN'S BREAST CANCER. Jing Xiang*, Kimberly Jordan, and Virginia Borges, Division of Medical Oncology, Department of Medicine, University of Colorado School of Medicine, Baltimore, MD.

SELECTIN BLOCKADE USING RHPSGL-1 ON HUMAN NEUTROPHIL ADHESION TO GALTKO.HCD46 PORCINE ENDOTHELIAL CELLS IN THE CONTEXT OF XENOTRANSPLANTATION. Nancy Ye*, Beth French1, Agnes Azimzadeh2, and Richard Pierson3, 1Department of Microbiology and Immunology and Immunology and 2Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

CHARACTERIZING PERI-ICTAL MOOD CHANGES IN PATIENTS WITH PSYCHOGENIC NONEPILEPTIC SEIZURES. Serena Yin*, Scott Thompson1, Jennifer Hopp2, 1Department of Physiology and 2Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.