

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,
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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 Pemov¹, Ashok Asthagiri², and Douglas Stewart¹, ¹ Clinical Genetics Branch, National Cancer Institute, National Institutes of Health, Bethesda, MD and ²Department of Neurosurgery, University of Virginia, Charlotte, VA.

OUTCOMES OF NEWBORN SCREENING FOR CRITICAL CONGENITAL HEART DISEASE (CCHD) AT UNIVERSITY OF MARYLAND CHILDREN'S HOSPITAL. Elena Donald*, Maura Heffernan¹, and Natalie Davis², ²Division of Neonatology, Department of Pediatrics, ¹University of Maryland School of Medicine, Baltimore, MD.

DEVELOPMENT OF NOVEL PREDICTIVE ALGORITHMS FOR RETINOPATHY OF PREMATURITY (ROP). Nisha Donthi*, Osamah Saeedi¹, Janet Alexander², and Sachin Kalarn³, 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 Chan¹, Julie Proctor², Adam Puche³, and Gary Fiskum², ¹Department of Medicine, Tufts University School of Medicine, Boston, MA and ²Department of Anesthesiology and ³Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

IMMUNOMODULATION OF POST-NAION M1 UPREGULATION WHEN TREATING WITH IL4, TGFB, 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 Cassidy¹, Serena Yin¹, Scott Thompson², and Jennifer Hopp¹, ¹Department of Neurology and ²Department 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 Harris¹, Solomon Hayon², Michael Huffner², and Robert Crawford³, ¹Department of Surgery and ³Division of Vascular, Department of Surgery, ²University 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 Fox¹, Xiaochun Chen, and Curt Civin, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

CELLULAR SENESCENCE ALTERS THE MITOCHONDRIA-ASSOCIATED MICRORNA PROFILE OF WI-38 CELLS. Jackline Joy Lasola*, Ji Heon Noh, and Myriam Gorospe, National Institute on Aging, National Institutes of Health, Bethesda, 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 GALT.KO.HCD46 PORCINE ENDOTHELIAL CELLS IN THE CONTEXT OF XENOTRANSPLANTATION. Nancy Ye*, Beth French¹, Agnes Azimzadeh², and Richard Pierson², ¹Department of Microbiology 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.