

Awards Memo

TO: University of Maryland School of Medicine

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

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

Qi Cao, J.D., Research Coordinator

Fiana Romero, M.S., Senior Program Specialist

Zachariah Lee, MSIV
Katherine Raja, MSIV
Alpha Omega Alpha Medical Honor Society, University of Maryland School of
Medicine
MSRD Co-Chairs and Event Coordinators

DATE: December 11, 2023

RE: **46th Annual Medical Student Research Day, 2023 Student Award and Faculty Mentor Recognition Award Recipients**

On behalf of the Office of Student Research and the Alpha Omega Alpha (AOA) Honor Society, we would like to congratulate all the **Student Award** and **Faculty Mentor Recognition Award** recipients for the 46th Annual Medical Student Research Day (MSRD), held on November 28 and 29, 2023. MSRD, a proud tradition at the University of Maryland, is an opportunity for medical students to present their research accomplishments to the school community. This year, 125 presentations were given across 16 presentation sessions. Of the medical students who participated in MSRD, 22 received awards in their respective presentation sessions. Additionally, of the faculty mentors who had students presenting in MSRD, 12 received Faculty Mentor Recognition Awards for their transformational and productivity impact on their students.

Below are the names of Student Award recipients, their mentors and co-investigators, and the titles of their presentations. The names of Faculty Mentor Recognition Award recipients and the students who nominated them are also below.

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

46th Annual Medical Student Research Day
2023 Student Presentation Award Recipients
(By Presentation Session)

Oral Presentation Session I
First Place: Devina Chatterjee, MS II (O.03)

Oral Presentation Session II
First Place: Antoan Koshar, MS III (O.11)

Oral Presentation Session III
(Co-presenters)
First Place: Anthony DeMartino, MS II &
Anahita Shiva, MS II &
Olivia Babick, MS II (O.14)

Oral Presentation Session IV
First Place: Simon Doss-Gollin, MS II (O.24)

Oral Presentation Session V
First Place: Helen Nguyen, MS II (O.28)

Oral Presentation Session VI
First Place: Ethan McCaslin, MS II (O.32)

Oral Presentation Session VII
First Place: Radhika Gholap, MS III (O.42)

Oral Presentation Session VIII
First Place: Dennis Morozov, MS III (O.48)

Oral Presentation Session IX
First Place: Anahita Shiva, MS II (O.52)

Oral Presentation Session X
First Place: Aidan Wiley, MS II (O.60)

Oral Presentation Session XI
First Place: Susanna Yau, MS III (O.62)

Oral Presentation Session XII
First Place: Sarina Hanfling, MS II (O.70)

Poster Presentation Session I
(tied)
First Place: Matthew Wilhide, MS II (P.01)
First Place: Grace Lechmann, MS III (P.03)

Poster Presentation Session II
First Place: Shani Kamberi, MS II (P.31B)
Second Place: Andrew Kim, MS II (P.27)

Poster Presentation Session III Erika
First Place: Lipford, MS III (P.43)
Second Place: Joseph Deng, MS IV (P.32)

Poster Presentation Session IV
(Co-presenters)
First Place: Ijeoma Obizoba, MS III &
Sabrina Hidalgo-Ahmed, MS III (P.48)
Second Place: Tiffany Cao, MS III (P.49)

Presentation Abstract Titles
(Alphabetical by Award Recipient Last Name)

ASSESSING THE PREDICTIVE VALUE OF THE NEUTROPHIL-TO-LYMPHOCYTE RATIO FOR POST-THROMBOTIC SYNDROME FOLLOWING ILIOFEMORAL DEEP VENOUS THROMBOSIS. Anthony DeMartino*, Olivia Babick*, Anahita Shiva*, Nisarg Shah¹, Laura De Ravin¹, Devina Chatterjee¹, and Khanjan Nagarsheth², ²Division of Vascular Surgery, ¹Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

IMPACT OF GOSLINGS II ON NICU PARENT-INFANT INTERACTIONS. Tiffany Cao*, Lisa Shanty¹, Barbara Henschel², Betsy Diamant-Cohen³, and Brenda Hussey-Gardner⁴, ¹Johns Hopkins University, Baltimore, MD, ²Port Discovery Children's Museum, Baltimore, MD, ³Mother Goose on the Loose: Goslings, Baltimore, MD, and ⁴Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

CHILDREN ARE NOT SMALL ADULTS: ADDRESSING LIMITED GENERALIZABILITY OF AN ADULT DEEP LEARNING ORGAN SEGMENTATION MODEL TO THE PEDIATRIC POPULATION. Devina Chatterjee*, Florence Doo¹, Adway Kanhere¹, Andrew Chan¹, Alexander Welsh¹, Annie Trang¹, Vishwa Parekh¹, and Paul Yi¹, ¹Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

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A GENOME-FIRST INVESTIGATION OF DIGENIC FANCONI ANEMIA INHERITANCE. Joseph Deng*, Burak Altintas¹, and Lisa McReynolds², ¹Department of Pediatrics, Washington University, St. Louis Children's Hospital, St. Louis, MO, and ²Division of Cancer Epidemiology and Genetics, Department of Epidemiology and Public Health, National Cancer Institute, Rockville, MD.

LEVERAGING YEAST GENETICS IN *SACCHAROMYCES CEREVISIAE* TO IDENTIFY SARS-COV-2 HOST-PATHOGEN PROTEIN INTERACTIONS. Simon Doss-Gollin*, Pranav Majeti¹, Antonia Papadimas², Issac Chaudry³, Stuart Weston², and Matthew Frieman², ¹University of Maryland College Park, College Park, MD and ²Department of Microbiology and Immunology and ³Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, Baltimore, MD.

SURGICAL MANAGEMENT OF IRIS BOMBE IN MUSCLE-EYE-BRAIN DISEASE. Radhika Gholap*, Diana Bharucha-Goebel¹, Daniel Shats², Bhakti Panchal², Jessica Chong³, Moran Levin⁴, and Janet Alexander⁴, ¹Division of Pediatric Neuromuscular, ³Department of Neurology, Children's National Hospital, Washington DC and ⁴Division of Pediatrics, Department of Ophthalmology and Visual Sciences, ²University of Maryland School of Medicine, Baltimore, MD.

ELUCIDATING RELATIONSHIPS BETWEEN SERUM AMH LEVELS AND PEDIATRIC FOLLICULAR DENSITY IN OVARIAN HISTOLOGICAL TISSUE FOLLOWING OTC. Sarina Hanfling*, Jacqueline Maher¹, Ninet Sinai², Ramya Balasubramanian¹, Hong Lou¹, Lucy Sierra¹, Taylor Badger¹, and Veronica Gomez-Lobo¹, ¹Division of Pediatric and Adolescent Gynecology, Department of Obstetrics, Gynecology and Reproductive Sciences ²Department of Biostatistics and Clinical Epidemiology Service, NIH, Bethesda, MD.

WHAT ABOUT RACE? A SYSTEMATIC REVIEW ON THE RACIAL DISPARITIES SEEN IN KIDNEY XENOTRANSPLANTATION LITERATURE. Ijeoma Obizoba*, Sabrina Hidalgo-Ahmed*, Madeline Brown¹, Garyn Metoyer², Yvonne Rasko³, and Chandra Bhati⁴, ²Sinai Hopsital, Baltimore, MD, and ³Division of Plastic Surgery and ⁴Division of Transplantation Surgery, Department of Surgery, ¹University of Maryland School of Medicine, Baltimore, MD.

LIVER TRANSPLANTATION WITH DONOR MACROSTEATOSIS $\geq 50\%$. Shani Kamberi*, Massimo Arcerito¹, Saad Malik¹, Josue Alvarez-Casas¹, Kirti Shetty², Daniel Maluf¹, Chandra Bhati¹, and Raphael Meier¹, ¹Division of Transplant, Department of Surgery and ²Division of Hepatology, Department of Medicine, University of Maryland Medical Center, Baltimore, MD.

STRAIN-SPECIFIC AND CROSS-REACTIVE ANTIBODY RESPONSES TO *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN. Andrew Kim*, DeAnna Friedman-Klabanoff¹, Olukemi Ifeonu², Emily Stucke³, Kirsten Lyke⁴, Matthew Laurens¹, Joana Silva⁵, and Andrea Berry¹, ¹Division of Infectious Diseases and Tropical Pediatrics, Department of Pediatrics, ²Institute for Genome Sciences, ³Center for Vaccine Development and Global Health, ⁴Department of Medicine, and ⁵Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD.

DEVELOPMENT OF A PATIENT SPECIFIC CARTILAGE GRAFT USING MAGNETIC RESONANCE IMAGING AND 3D PRINTING. Antoan Koshar*, Matthew Kolevar¹, and Jonathan Packer¹, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

NEONATAL OUTCOMES ASSOCIATED WITH FETAL POSTERIOR FOSSA ABNORMALITIES ON PRENATAL ULTRASOUND. Grace Lechmann*, Nicol Tugarinov¹, Alison DiSciullo², and Jude Crino², ²Division of Maternal and Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, ¹University of Maryland School of Medicine, Baltimore, MD.

EVALUATION OF CANNABIDIOL AS A THERAPEUTIC FOR NOISE-INDUCED HEARING LOSS. Erika Lipford*, Benjamin Shuster¹, Beatrice Milon¹, and Ronna Hertzano², ¹Department of Otorhinolaryngology - Head and Neck Surgery, National Institute on Deafness and Other Communication Disorder, Bethesda, MD and ²Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

APPLYING SHARK-DERIVED NANOBODIES TO DISCOVER SITES OF VULNERABILITY ON HUMAN PATHOGENIC VIRUSES. Ethan McCaslin* and Helen Dooley¹, ¹Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD.

COMPARISON OF GONIOMETER APPLICATIONS (APPS) UTILIZING AN IPAD IN THE CLINICAL SETTING. Dennis Morozov*, Ave Keefer¹, Catie May¹, and Joshua Abzug², ²Division of Hand Surgery, Pediatric Orthopedic Surgery, Department of Orthopaedics, ¹University of Maryland School of Medicine, Baltimore, MD.

ASSOCIATION OF *CDKN2A* AND THE IMMUNE LANDSCAPE IN LARYNGEAL CANCER. Helen Nguyen*, Amol Shetty¹, Ashley Cellini², John Papadimitriou², Ranee Mehra³, Daria Gaykalova⁴, and Matthew Witek⁵, ²Department of Pathology, ³Department of Medical Oncology, ⁴Department of Otorhinolaryngology - Head and Neck Surgery, and ⁵Department of Department of Radiation Oncology, ¹University of Maryland School of Medicine, Baltimore, MD.

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UNDERSTANDING THE ROLE OF ADENOTONSILLECTOMY IN CHILDREN'S BRAIN OUTCOMES. Anahita Shiva*, Amal Isaiah¹, and Nidhi Matthew¹, ¹Division of Pediatric Otolaryngology, Department of Otorhinolaryngology - Head and Neck Surgery, University of Maryland School of Medicine, Baltimore, MD.

EVALUATING THE USE OF OCULAR THERMOGRAPHY TO DETECT CAROTID STENOSIS. Aidan Wiley*, Frederick Durham¹, Justin Marsella¹, Georges Jreij¹, Aman Kankaria¹, Brajesh Lal¹, and Sarasijhaa Desikan¹, ¹Division of Vascular Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

A CYTOKINE PROFILE ASSOCIATED WITH CORTICAL AND DEEP GRAY MATTER LESIONS IN MULTIPLE SCLEROSIS. Matthew Wilhide* and Daniel Harrison¹, ¹Division of Multiple Sclerosis and Neuroimmunology, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

IMPROVING FOLLOW-UP RATES BY OPTIMIZING PATIENT EDUCATIONAL MATERIALS IN RETINOPATHY OF PREMATURITY. Susanna Yau*, Elizabeth Fernandez Paz¹, Rachel Steger¹, Euna Cho¹, Janet Alexander¹, and Moran Levin¹, ¹Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

46th Annual Medical Student Research Day

2023 Faculty Mentor Recognition Award Recipients

Dr. Janet Alexander
Recognized for: Transformational &
Productivity Impact
Nominated by: Euna Cho, MSII & Taylor
Kolosky, MSII

Dr. Andrea A. Berry
Recognized for: Transformational Impact
Nominated by: Andrew Kim, MSII & Quynh-
Thu Kaitlin Ta, MSIII

Dr. Adam Fang
Recognized for: Transformational Impact
Nominated by: Shirin Parsa, MSIII

Dr. Matthew Grant
Recognized for: Transformational Impact
Nominated by: Elsa Bjornlund, MSII

Dr. Shailvi Gupta
Recognized for: Transformational Impact
Nominated by: Melissa Rallo, MSII

Dr. Bashar Hassan
Recognized for: Transformational Impact
Nominated by: Magdi Elghannam, MSII

Dr. Shawn Kwatra
Recognized for: Productivity Impact
Nominated by: Hannah Cornman, MSIV

Dr. Moran Roni Levin
Recognized for: Transformational Impact
Nominated by: Euna Cho, MSII

Dr. Silke Niederhaus
Recognized for: Transformational Impact
Nominated by: Lane Cavey, MSII

Dr. Adam Puche
Recognized for: Productivity Impact
Nominated by: Heather Groves, MSIV

Dr. Sarah Sunshine
Recognized for: Transformational Impact
Nominated by: Jerry Bohlen, MSII

Dr. Paul Yi
Recognized for: Productivity Impact
Nominated by: Annie Trang, MSII