HIGHLIGHTS

UM SOM

44th Annual MSRD
University of Maryland School of Medicine
Office of Student Research
44th Annual : Two-Day Virtual MSRD Celebration
– Nov 15th and 16th 2021

Welcome
The Office of Student Research (OSR)
At University of Maryland School of Medicine

Miriam K Laufer, M.D.
Professor of Pediatrics
Associate Dean for Student Research and Education
Dir. Office of Student Research
Malaria Research Program Director, CVD and Global Health

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
Director, PRISM, UM Scholars and STAR-PREP Programs

Donald R. Matteson, Ph.D.,
Associate Professor of Physiology
Assistant Dean for Student Research Education and Dual Degree Programs, UM SOM
Director of FRCT and GPILS Courses

Qi Cao, JD
Research Coordinator
Program Manager

Fiama Romeo, BA
Program Management Specialist

http://medschool.umaryland.edu/osr/

StudentResearch@som.umaryland.edu
Brief Overview of MSRD

• Welcome!
• Program:
  – Welcome to virtual MSRD
  – Introduction of AOA and Student Leaders
  – Keynote Speaker: Dr. Ronna Hertzano
  – Day 1: Student Plenary Sessions and Oral Presentation Sessions
  – Day 2: Student Plenary Sessions, 2 Poster Sessions and Special Student Research Panel Discussion
  – Awards Ceremony
    • Outstanding Faculty Mentors
    • Student Presentation Awards
Champions of UM SOM Medical Student Research

Jordan Warnick, Ph.D.
Professor and Associate Dean
– Retired at UMSOM
Secretary, Board of Directors,
SAFE Coalition of MA

Angela Brodie, PhD
Late Professor Emeritus

Edson X. Albuquerque, MD, PhD
Late Professor of Epidemiology
and Public Health,
Former Professor and Chair of Pharmacology
Champions of UM SOM Medical Student Research

Donald E. Wilson, M.D., MACP
John Z and Akiko J Bowers
Distinguished Professor and Dean, Emeritus at UM SOM
Keynote Address

“From Ear to gEAR - Building a Career as a Surgeon-Scientist at UMSOM”

Ronna Hertzano, MD, PhD
Professor of Otorhinolaryngology - Head and Neck Surgery
Professor of Anatomy and Neurobiology
University of Maryland School of Medicine
AOA Leadership, UM SOM

Kristen Brao, MSIV
MD-PhD Candidate
Class of 2022
Co-Chair AOA MSRD
UM SOM Chapter, AOA

Justin Kung, MSIV
MD Candidate
Class of 2022
Co-Chair AOA MSRD
UM SOM Chapter, AOA

Ryan Thompson, MSIV
MD Candidate
Class of 2022
Alpha Omega Alpha President
UM SOM Chapter, AOA
Student Plenary Speakers (Day 1)

Justine Yu, MD-PhD Candidate, 2023 (PhD, 2021)

Serban Negoita, MD Candidate, 2022

J. Yu: A Nanocomposite Hydrogel for Stromal Cell-Derived Factor-1 Alpha Delivery and Modulation of Macrophage Phenotype for Skin Tissue Regeneration

S. Negoita: The Neurons, the Glia and the Vasculature: My Journey through the Neurosciences
Rohan Singh: Severity of Hidradenitis Suppurativa is Inversely Correlated with Educational Attainment
N. Amin: Dynamics of the Head and Neck Tumor Microenvironment and the Impact of Immunotherapy
C. Le: Cell – Vessel Mismatch in Glaucoma
O. Uddin: Role of the Parabrachial Complex in Rodent Models of Pain
UM SOM
44th Annual MSRD
Faculty Mentor Recognition
Faculty Mentor Recognition Awards

Transformational Impact

Mentee

Dhruv Shah, MSII

Nominee/Awardee

Janet Alexander, MD
Assistant Professor of Ophthalmology and Pediatrics
Faculty Mentor Recognition Awards
Transformational Impact

Mentee
Anna Apffel, MSII

Nominee/Awardee
Dan Gingold, MD, MPH
Assistant Professor
Department of Emergency Medicine
Faculty Mentor Recognition Awards
Transformational Impact

Mentee
Emily Daniels, MSII

Nominee/Awardee
Deanna L. Kelly, PharmD., BCPP
Professor of Psychiatry, UM SOM
Director, Treatment Research Program (TRP)
Maryland Psychiatric Research Center (MPRC)
Faculty Mentor Recognition Awards
Productivity Impact

Mentee
Ujwal Boddeti, MSII

Nominee/Awardee
Alexander Ksendzovsky, MD, PhD
Assistant Professor
Neurosurgery | Anatomy & Neurobiology
Faculty Mentor Recognition Awards

Transformational Impact

Mentee
Sarah-Therese Curtis, MSII

Nominee/Awardee
Natalie L. Davis, MD, MMSc
Associate Professor of Pediatrics, Division of Neonatology
Associate Fellowship Director, Neonatal-Perinatal Medicine Program
Faculty Mentor Recognition Awards

Productivity Impact

Mentee
Emily Ma, MSII

Nominee/Awardee
Yinlin Hu, MD
Assistant Professor
Department of Surgery
Faculty Mentor Recognition Awards

Productivity Impact

Mentee

Matthew Miyamoto, MSII

Nominee/Awardee

Charles C Hong, MD, PhD
Melvin Sharoky Professor in Medicine
Faculty Mentor Recognition Awards

Transformational Impact

Mentee

Asha Kodan, MSII

Nominee/Awardee

David Riedel, MD, MPH
Associate Professor of Medicine
Director, Infectious Disease Fellowship Program
Faculty Mentor Recognition Awards

Transformational Impact

Mentees

Lani Roskes
MSIV

Katherine Raja
MSII

Nominee/Awardee

Sripriya Sundararajan, MD
Associate Professor of Pediatrics
Neonatal Director of OB-MFM Relations
44th Annual Medical Student Research Day Oral Presentation Awards
Luke Pitsenbarger, MSII (O.05)

Promis Depression and Anxiety Predict Worse Postoperative Function in Orthopaedic Hand and Wrist Surgery Patients

Luke Pitsenbarger*, Samir Kaveeshwar¹, Jason Lynch¹, Ngozi M. Akabudike², Raymond A. Pensy³, and R. Frank Henn III⁴. ¹Division of Hand Surgery, ²Division of Trauma, and ⁴Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.
Katherine Raja, MSII (O.12)

Association of Prophylactic Platelet Transfusion and Severe Intraventricular Hemorrhage in Very Low Birth Weight Infants

Katherine Raja*, Brenda Hussey-Gardner¹, Mathangi Gopalakrishnan², and Sripriya Sundararajan¹, ¹Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine and ²Center for Translational Medicine, University of Maryland School of Pharmacy, Baltimore, MD.
Lisa Roskes, MSIV (O.17)

Association of Enteral Feeding Patterns with Intestinal Barrier Function in Preterm Neonates

Lisa Roskes*, Bing Ma¹, Rose Viscardi², Alexandre Medina³, and Sripriya Sundararajan². ¹Department of Microbiology and Immunology and ²Division of Neonatology, ³Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.
Danielle Sim, MSII (O.21)

CCN2 Knockout Demonstrates Enhanced Achilles Tendon Healing in Adult Mice

Danielle Sim*, Kathryn Grescovich\textsuperscript{1}, Jocelyn Wu\textsuperscript{2}, Natalie Leong\textsuperscript{1}, and Jie Jiang\textsuperscript{1},
\textsuperscript{1}Department of Orthopaedics, \textsuperscript{2}University of Maryland School of Medicine, Baltimore, MD.
44th Annual Medical Student Research Day
Oral Presentation Awards
Oral Presentation Session IV

Zachariah Lee, MSII (O.24)

Differential Dendritic Cell Recruitment Induced by the Gut Microbiota in Cardiac Transplantation

Zachariah L. Lee*, Jegan Iyyathurai1, Ram Lakhan1, Samuel J. Gavzy2, Vikas Saxena1, and Jonathan S. Bromberg3, 3Division of Transplantation, 2Department of Surgery, 1University of Maryland School of Medicine, Baltimore, MD.
Sarah Byun, MSII (O.27)

Lens Thickness in Congenital and Childhood Cataracts: A Case Control Study

Sarah Byun*, Alexandra Dolgetta¹, Moran Levin², and Janet Alexander², ²Division of Pediatrics, Department of Ophthalmology and Visual Sciences, ¹University of Maryland School of Medicine, Baltimore, MD
Matthew Chrencik, MSIII (O.34)

Contrast-Enhanced Duplex Ultrasound Assessment of Exercise Induced Microvascular Perfusion Deficits in Patients with Peripheral Arterial Disease

Matthew Chrencik*, Steven J. Prior¹, Eric Christensen¹, Rishi Kundi², and Brajesh K. Lal², ¹Division of Gerontology and Geriatric Medicine, Department of Medicine and ²Division of Vascular Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.
Seyedeh Zahra Mousav, MSII (O.40)

*Defining Completely Better Status Through Patient-Reported Outcomes After Rotator Cuff Repair*

Seyyedeh Zahra Mousavi* and Samir Kaveeshwar, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.
Effect of Remote Mindfulness-Based Art Workshops (MBAW) on Stress, Anxiety, and Depression in Medical Students

Chaoyang Wang*, Isha Darbari*, Mazen Tolaymat¹, Sandra Quezada¹, John Allen², and Raymond Cross¹

¹Division of Gastroenterology and Hepatology, Department of Medicine, ²University of Maryland School of Medicine, Baltimore, MD.
44th Annual
Medical Student Research Day
Poster Presentation Awards
Sun Gyeong Choi, MSII (P.05)

Diagnostic Value of Muscle Biopsy in Conjunction with Nerve Biopsy in Evaluation of Clinical Presentations of Peripheral Neuropathy

Sun Gyeong Choi* and Cheng-Ying Ho, Department of Pathology, University of Maryland School of Medicine, Baltimore, MD.
Comparison of Group Prenatal Care Versus Standard Individual Prenatal Care for Patients with Diabetes in Pregnancy

Hannah Palmer*, and Sarah Crimmins, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.
FIRST: **THANK YOU**

- **Dr. E. A. Reece MD, PhD, MBA**
  - Vice President for Medical Affairs, University of Maryland
  - John Z. and Akiko K. Bowers Distinguished Professor and
  - Dean, University of Maryland School of Medicine

- Enthusiastic support in **“relentless pursuit of research and healthcare excellence.”**
  - OSR, student research and program support
Thank you Again!

- University of Maryland School of Medicine
- Organizations
- Presenters
- Students
- Mentors
- Program Directors and Staff
- Student volunteers and leaders
- Faculty judges
- Resident and Fellows – judges
- Attendees and supporters
Thank you

See you for Summer 2022 and, the 45th Annual MSRD!!