



UNIVERSITY of MARYLAND
SCHOOL OF MEDICINE

HIGHLIGHTS

UM SOM

44th Annual MSRD





UNIVERSITY of MARYLAND
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University of Maryland School of Medicine Office of Student Research

**44th Annual : Two-Day Virtual MSRD Celebration
– Nov 15th and 16th 2021**

Welcome



Welcome



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



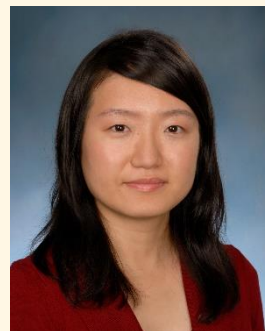
Miriam K Laufer, M.D.
Professor of Pediatrics
Associate Dean for Student Research and Education
Dir. Office of Student Research
Malaria Research Program Director, CVD and Global Health



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



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Program Manager

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



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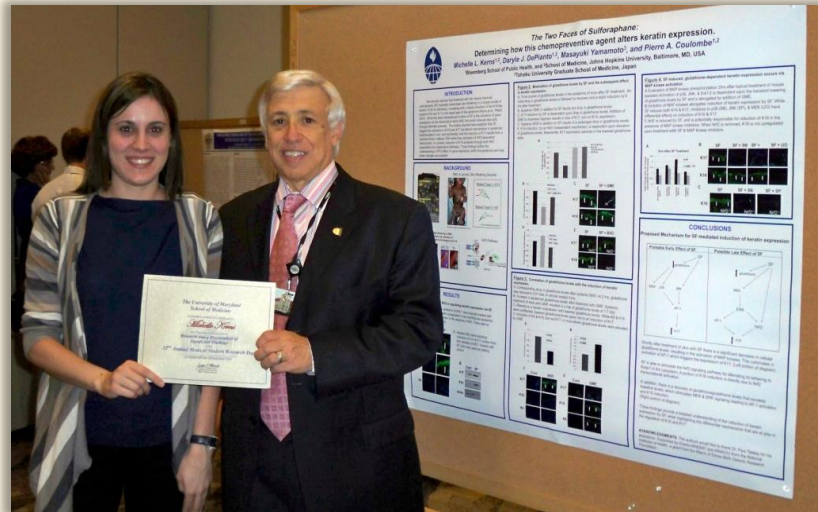


Brief Overview of MSRD

- **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



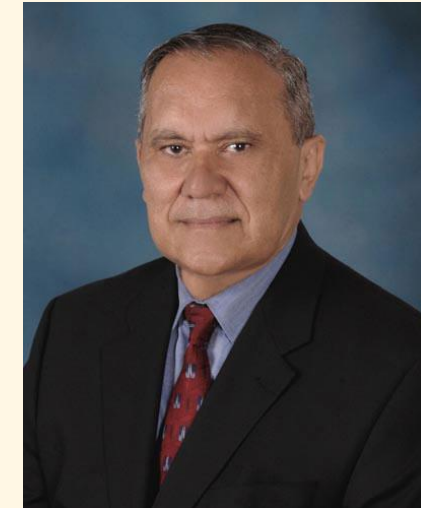
Champions of UM SOM Medical Student Research



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



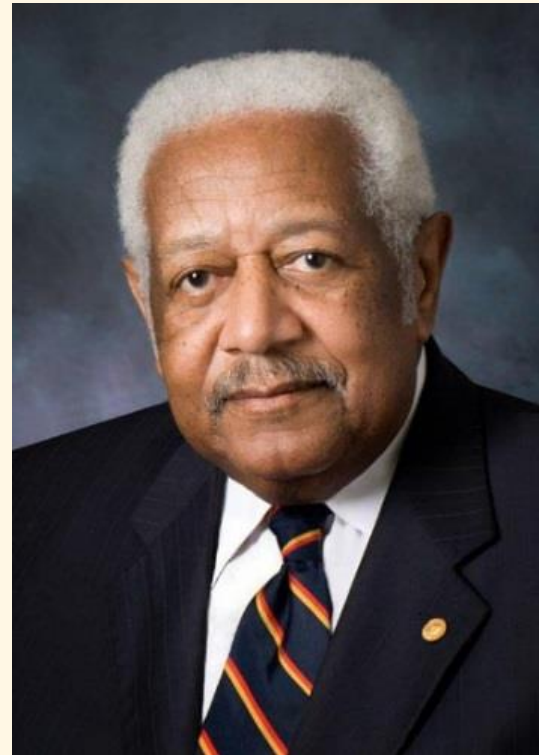
Angela Brodie, PhD
Late Professor Emeritus



**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

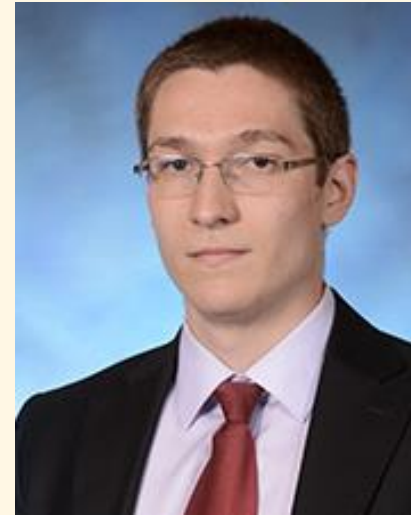
UM SOM Chapter, AOA



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



Student Plenary Speakers (Day 2)



Rohan Singh
MD Candidate
2023



Neha Amin
MD Candidate
2022



Chris Le, MS
MD Candidate
2022



Olivia Uddin
MD-PhD Candidate
2023

R. 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*



Student Panelists (Day 2)



Serban Negoita
MD Candidate
2022



MaryJoe Rice
MD Candidate
2022



Rohan Singh
MD Candidate
2023



Chris Le, MS
MD Candidate
2022



Olivia Uddin
MD-PhD Candidate
2023



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Faculty Mentor Recognition

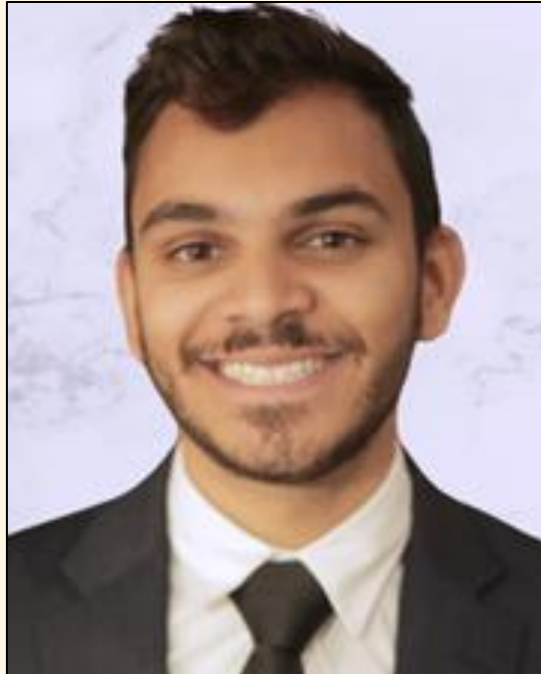


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Faculty Mentor Recognition Awards

Transformational Impact

Mentee



Dhruv Shah, MSII

Nominee/Awardee



Janet Alexander, MD
Assistant Professor of Ophthalmology and
Pediatrics



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Faculty Mentor Recognition Awards

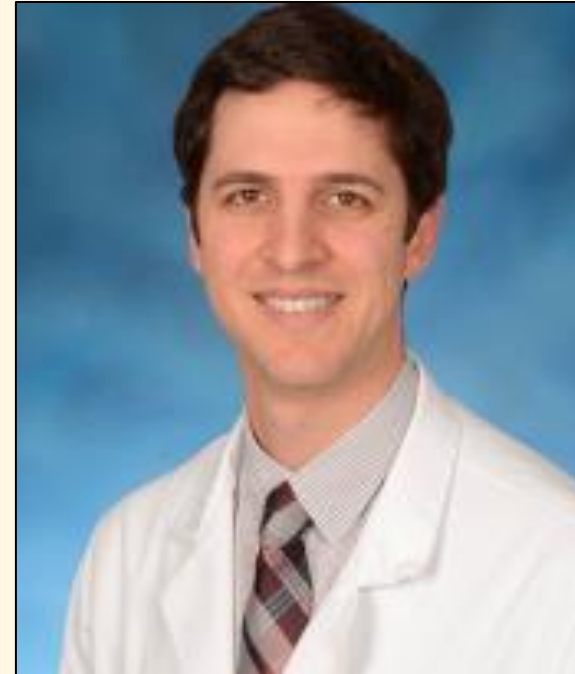
Transformational Impact

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



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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



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Faculty Mentor Recognition Awards

Productivity Impact

Mentee



Emily Ma, MSII

Nominee/Awardee



Yinin Hu, MD

Assistant Professor
Department of Surgery



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Faculty Mentor Recognition Awards

Productivity Impact

Mentee



Matthew Miyamoto,
MSII

Nominee/Awardee



Charles C Hong, MD, PhD
Melvin Sharoky Professor in Medicine



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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

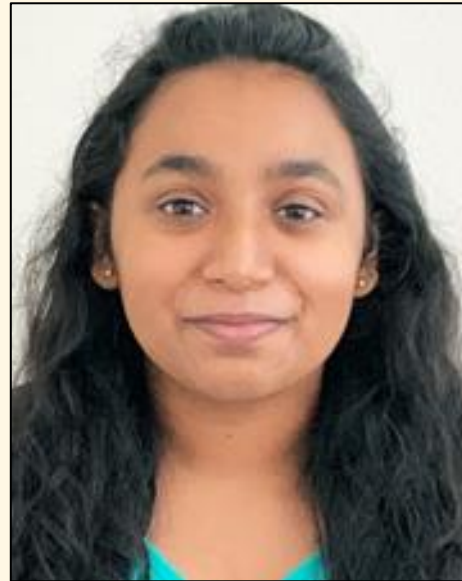
Transformational Impact

Mentees

Nominee/Awardee



Lani Roskes
MSIV



Katherine Raja
MSII



Sripriya Sundararajan, MD
Associate Professor of Pediatrics
Neonatal Director of OB-MFM Relations



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44th Annual
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Oral Presentation Awards

44th Annual
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Oral Presentation Awards
Oral Presentation Session I

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, ²Division of Hand Surgery, ³Division of Trauma, and ⁴Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

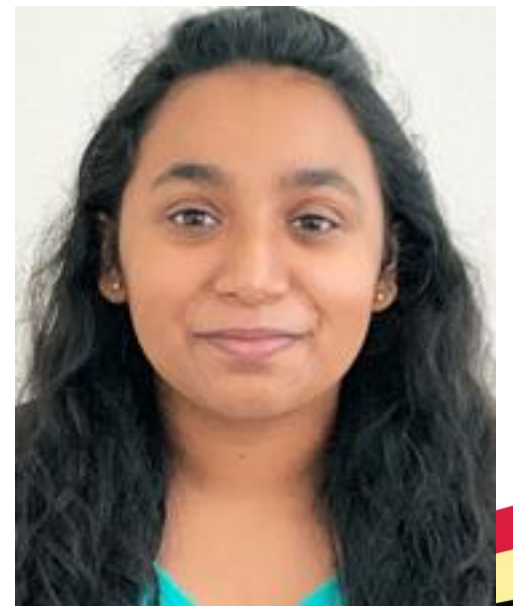


44th Annual
Medical Student Research Day
Oral Presentation Awards
Oral Presentation Session II

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.





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Oral Presentation Awards
Oral Presentation Session III

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.



44th Annual
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Oral Presentation Awards
Oral Presentation Session IV

Danielle Sim, MSII (O.21)

*CCN2 Knockout Demonstrates Enhanced Achilles Tendon
Healing in Adult Mice*

Danielle Sim*, Kathryn Grescovich¹, Jocelyn Wu², Natalie Leong¹, and Jie Jiang¹,

¹Department of Orthopaedics, ²University of Maryland School of Medicine, Baltimore,
MD.





44th Annual
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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.



44th Annual
Medical Student Research Day
Oral Presentation Awards
Oral Presentation Session V

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



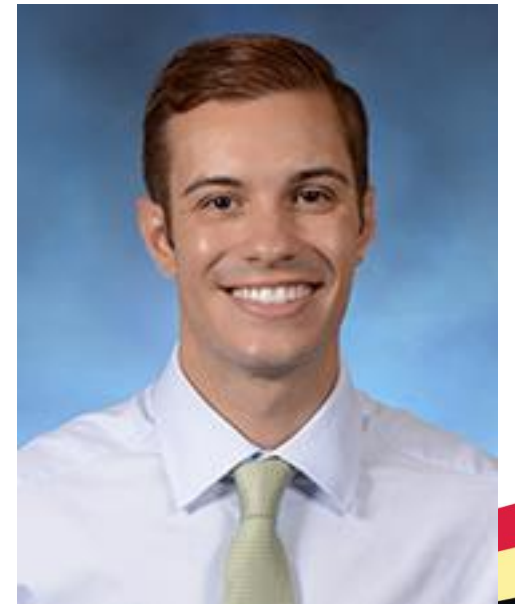


44th Annual
Medical Student Research Day
Oral Presentation Awards
Oral Presentation Session VI

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.





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Oral Presentation Awards
Oral Presentation Session VII

Seyedeh Zahra Mousav, MSII (O.40)

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

Seyedeh Zahra Mousavi* and Samir Kaveeshwar, Department of Orthopaedics,
University of Maryland School of Medicine, Baltimore, MD.





44th Annual
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Oral Presentation Awards
Oral Presentation Session VIII

Chaoyang Wang & Isha Darbari,
MSIII (O.47)

*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.





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44th Annual
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Poster Presentation Awards



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Medical Student Research Day
Poster Presentation Awards
Poster Presentation Session I

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.





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Medical Student Research Day
Poster Presentation Awards
Poster Presentation Session II

Hannah Palmer, MSII (P.12)

Comparison of Group Prenatal Care Versus Standard Individual Prenatal Care for Patients with Diabetes in Pregnancy

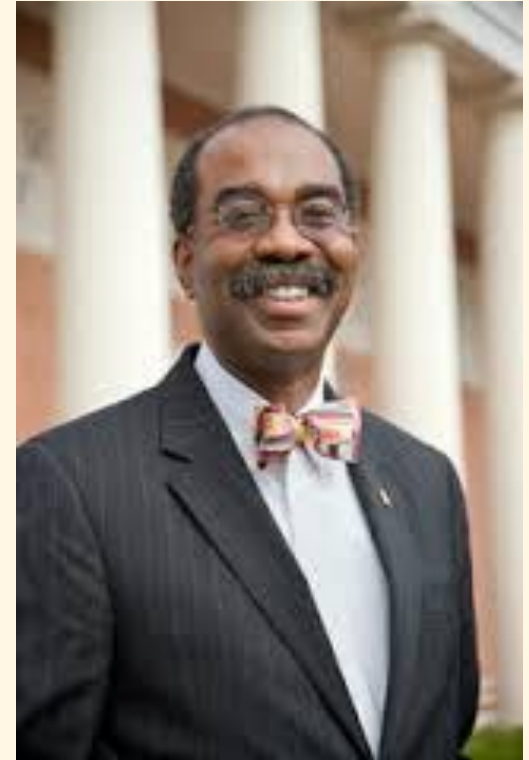
Hannah Palmer*, and Sarah Crimmins, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.





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!!