



UNIVERSITY *of* MARYLAND
SCHOOL OF MEDICINE

41st Annual
Medical Student Research Day

Hosted by
Office of Student Research, Dean's Office
Alpha Omega Alpha Honor Society

Wednesday, November 14, 2018
University of Maryland School of Medicine
Baltimore, MD 21201

Event Program

Office of Student Research

Kerri A. Thom, M.D., M.S.
Associate Professor of Epidemiology and Public Health
Assistant Dean for Student Research and Education
Director of the Office of Student Research

Gregory B. Carey, Ph.D.
Associate Professor of Microbiology and Immunology
Director of Student Research and Community Outreach

Donald R. Matteson, Ph.D.
Associate Professor of Physiology
Executive Director of Student Research Education and Dual Degree Programs

Qi Cao, J.D.
Research Coordinator

Eileen M. Eldridge
Administrative Assistant

Alpha Omega Alpha Honor Society Members Event Staff

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MSRD Event Coordinator

Charlie Fleming, MS IV

Josef Jolissant, MS IV
MSRD Event Coordinator

Paige Kennedy, MS IV
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Jordan Parker, MS IV
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Stephanie Payton, MS IV

Jake Quaytman, MS IV

Shuvodra Routh, MS IV

Jesse Stokum, MS IV
MSRD Event Coordinator

Stephen Semick, MS I

Acknowledgements

We would like to express our gratitude to the Dean's Office for providing the financial support for Medical Student Research Day.

We would also like to express our appreciation for all the research programs, faculty mentors and other mentors who supported and guided the students in their research.

Our special thanks go to the faculty, resident, fellow, post-doctoral fellow and AOA student member judges who so willingly provided their time and knowledge.

Dr. Pavlos Anastasiadis	Dr. Xiaofeng Jia	Dr. Kari Ann Shirey
Dr. Daya Bagdure	Josef Jolissant, MS IV	Dr. Giovannino Silvestri
Dr. Elizabeth Balcer-Kubiczek	Dr. Kimberly Lumpkins	Dr. James Snider, III
Dr. Aditi Banerjee	Dr. Yuko Ota	Dr. Kristen Stafford
Dr. Jonathan Bromberg	Dr. Jason Molitoris	Dr. Nanette Steinle
Dr. Laura Buchanan	Dr. Jessica Mong	Dr. Sripriya Sundararajan
Dr. France Carrier	Dr. Veronica Njie-Carr	Dr. Ramya Swamy
Dr. Firas El Chaer	Dr. Edna Pereira	Dr. Sui-Seng Tee
Dr. Svetlana Chapoval	Dr. Mohammed Rahman	Dr. Kerri Thom
Dr. William Chiu	Dr. Rekha Rapaka	Dr. Franklin Toapanta
Dr. Kenechukwu Chudy-Onwugaje	Dr. Chozha Rathinam	Dr. Leonardo Tonelli
Dr. Natalie Davis	Dr. Krishanu Ray	Dr. Mohan Tulapurkar
Dr. Vasken Dilsizian	Dr. William Regenold	Dr. Shifa Turan
Dr. Joseph Gillespie	Dr. Stephanie Rice	Dr. Melissa Vyfhuis
Dr. Archana Gopalakrishnan	Dr. Katharina Richard	Dr. Aniket Wadajkar
Dr. Jacob Hamm	Dr. Boris Sabirzhanov	Dr. Mike Winters
Dr. Kim Hankey	Dr. Chinmoy Sarkar	Dr. Zhiyong Zhao
Dr. Bret Hassel	Dr. Vikas Saxena	Dr. Lin Zou

41st Annual Medical Student Research Day

Wednesday, November 14, 2018

Noon – 6:45 p.m.

University of Maryland School of Medicine

Baltimore, MD, 21201

General Schedule

7:00 a.m. – 12:20 p.m.	<i>Poster Setup (Poster Sessions I & II only)</i>
12:00 – 1:20 p.m.	Registration
Lunch & Keynote Address	12:00 – 1:30 p.m.
12:00 – 1:20 p.m.	Lunch – MSTF Atrium
12:20 – 12:40 p.m.	Opening Remarks
	Gregory B. Carey, Ph.D. Associate Professor of Microbiology and Immunology Director of Student Research and Community Outreach
	E. Albert Reece, M.D., Ph.D., M.B.A. Executive President for Medical Affairs, UM Baltimore John Z. and Akiko K. Bowers Distinguished Professor Dean, University of Maryland School of Medicine
	Kerri A. Thom, M.D., M.S. Associate Professor of Epidemiology and Public Health Assistant Dean for Student Research and Education Director of the Office of Student Research
	Josef Jolissant, MS IV President, Maryland Beta Chapter Alpha Omega Alpha Honor Medical Society
12:40 – 1:10 p.m.	Keynote Address
	Graeme F. Woodworth, M.D., B.S. Professor of Neurosurgery, Anatomy and Neurobiology, and Diagnostic Radiology and Nuclear Medicine
1:10 – 1:20 p.m.	Schedule & Procedures
	Qi Cao, J.D. Research Coordinator
1:20 – 1:30 p.m.	<i>Break</i>

Oral Presentations**1:30 – 5:20 p.m.**

1:30 – 3:20 p.m.

Oral Presentation Session I – Leadership Hall

Oral Presentation Session II – Hosick Hall

Oral Presentation Session V – Taylor Hall

(5-minute break at 2:30 p.m.)

3:20 – 3:30 p.m.

Break

3:30 – 5:20 p.m.

Oral Presentation Session III – Leadership Hall

Oral Presentation Session IV – Hosick Hall

*(5-minute break at 4:30 p.m.)***Poster Presentations****1:30 – 5:25 p.m.**

1:30 – 2:30 p.m.

Poster Presentation Session I – MSTF Second Floor

2:30 – 2:35 p.m.

Break

2:35 – 3:35 p.m.

Poster Presentation Session II – MSTF Second Floor

3:35 – 3:45 p.m.

Poster Takedown (Poster Sessions I & II only)

3:45 – 4:15 p.m.

Poster Setup (Poster Sessions III only)

4:15 – 5:15 p.m.

Poster Presentation Session III – MSTF Second Floor

5:15 – 5:25 p.m.

*Poster Takedown (Poster Sessions III only)***Awards Banquet****5:30 – 6:45 p.m.**

5:30 – 6:45 p.m.

Dinner – MSTF Atrium

5:50 – 6:15 p.m.

Honoring Faculty Mentors

6:20 – 6:40 p.m.

Presentation of Awards & Certificates

Gregory B. Carey, Ph.D.**Kerri A. Thom, M.D., M.S.**

6:40 – 6:45 p.m.

Closing Remarks

Oral Presentation Schedule

Oral presentations are 15 minutes each.
Presenters are indicated with “*” next to their names.

Oral Presentation Session I

1:30 – 3:20 p.m.
Leadership Hall (MSTF)

O.01 1:30 p.m.

COMBINED ELECTRICAL STIMULATION AND STEM CELL TRANSPLANTATION AUGMENTS PERIPHERAL NERVE REGENERATION AND FUNCTIONAL RECOVERY. Huanwen Chen*, Jian Du, and Xiaofeng Jia, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

O.02 1:45 p.m.

DEVELOPING MODEL SYSTEMS TO INVESTIGATE THE ROLE OF LRP1 PATIENT MUTATIONS ON ABDOMINAL AORTIC ANEURYSMS. Saif Yasin* and Dudley Strickland, Center for Vascular and Inflammatory Diseases, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.03 2:00 p.m.

EFFECTS OF DYSREGULATED NF-KB ON HEMATOPOIETIC STEM CELLS AND THEIR FUNCTION. Huanwen Chen*, Masahiro Nakagawa¹, and Chozha Rathinam², ¹Department of Genetics and Development, Columbia University School of Medicine, New York, NY and ²University of Maryland School of Medicine, Baltimore, MD.

O.04 2:15 p.m.

THE HEART-PLACENTAL AXIS: THE RELATIONSHIP BETWEEN TYPE OF CONGENITAL HEART DEFECT AND THE PLACENTA. Gabrielle Siegel*, Elizabeth Cutting, Ozhan Turan, and Shifa Turan, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

Break (2:30– 2:35 p.m.)

O.05 2:35 p.m.

DOES GDF15 KNOCKDOWN ELIMINATE MESENCHYMAL STEM CELL THERAPY FUNCTIONAL PRESERVATION OF THE MYOCARDIUM IN SETTINGS OF PRESSURE OVERLOAD? Gregory Boyajian*, Sunjay Kaushal¹, Gregory Bittle¹, David Morales², Rachana Mishra², and Sudhish Sharma², ¹Division of Cardiothoracic Surgery, ²Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.06 2:50 p.m.

A POROUS COLLAGEN-GAG SCAFFOLD PROMOTES MUSCLE REGENERATION OF VML INJURED QUADRICEPS MUSCLES IN A MURINE MODEL. Nicole Hays*, Adriana Panayi, Lucindi Smit, Dennis Orgill, and Indranil Sinha, Division of Plastic Surgery, Department of Surgery, Brigham and Women's Hospital, Boston, MA.

O.07 3:05 p.m.

ADVERSE EVENTS IN PATIENTS WITH IMPLANTABLE CARDIAC DEVICES UNDERGOING RADIOTHERAPY: IS IT TIME TO REVISE GUIDELINES? Muhammad Hamza*, Pranshu Mohindra, and Stephanie Rice, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

Oral Presentation Session II

1:30 – 3:20 p.m.

Hosick Lecture Hall (Bressler)

O.08 1:30 p.m.

PRIMARY-CARE AND ACUTE CARE ELECTION: NON-URGENT CARE DECISION MAKING IN A PRIMARY CARE PEDIATRIC POPULATION. Shannon Kirby* and Adam Spanier, Division of General Pediatrics, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

O.09 1:45 p.m.

IDENTIFYING THE COMPONENTS OF INFORMED TREATMENT DECISION-MAKING IN PATIENTS WITH PANCREATIC CANCER RECEIVING PREOPERATIVE THERAPY (INFORMED). Christine Server* and Ryan Nipp, Massachusetts General Hospital, Boston, MA.

O.10 2:00 p.m.

TANGIBLE BENEFITS: INCORPORATING NEW VARIABLES INTO THE RISK-BENEFIT ANALYSIS OF LIVING ORGAN DONATION DECISIONS. Miriam Robin*, Sarah Rasmussen, Macey Henderson, Madeleine Waldram, Ann Eno, and Dorry Segev, Epidemiology Research Group in Organ Transplantation, Department of Surgery, Johns Hopkins University School of Medicine, Baltimore, MD.

O.11 2:15 p.m.

EFFECT OF TELE-MEDICINE FOR INFLAMMATORY BOWEL DISEASE (TELE-IBD) ON PATIENT ACTIVATION AND SELF-EFFICACY. Zaid Bilgrami*, Raymond Cross, and Ameer Abutaleb, Division of Gastroenterology and Hepatology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

Break (2:30 – 2:35 p.m.)

O.12 2:35 p.m.

DELAYED PRESENTATION OF BOWEL OBSTRUCTION CAUSED BY BLUNT TRAUMA. Nicholas George* and Siamak Moayed, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

O.13 2:50 p.m.

PROSPECTIVE, RANDOMIZED CONTROLLED COMPARISON OF A FLASH-TIP CATHETER AND A TRADITIONAL IV CATHETER IN AN URBAN EMERGENCY DEPARTMENT. Nicholas George*, Michael Witting¹, Jon Mark Hirschon¹, Alise Burke², Stephen Schenkel¹, and Siamak Moayed¹, ¹Department of Emergency Medicine, ²University of Maryland School of Medicine, Baltimore, MD.

O.14 3:05 p.m.

EFFECT OF TELEMEDICINE ON QUALITY OF LIFE AND DEPRESSIVE SYMPTOMS IN PATIENTS WITH INFLAMMATORY BOWEL DISEASE. Matthew Schliep*, Raymond Cross, and Kenechukwu Chudy-Onwugaie, Division of Gastroenterology and Hepatology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

Break (3:20 – 3:30 p.m.)

Oral Presentation Session V

1:30 – 3:20 p.m.

Taylor Lecture Hall (Bressler)

O.15 1:30 p.m.

SURGERY IS ASSOCIATED WITH OPIOID OVERDOSE AND NEW-ONSET OPIOID USE DISORDER AMONG US VETERANS. Jonathan Siglin*, Khodadad Namiranian¹, and John Sorkin², ¹Department of Anesthesiology, Veterans Affairs Medical Center Fresno, Fresno, CA and ²Veterans Affairs Medical Center Geriatrics, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

O.16 1:45 p.m.

PREDICTIVE FACTORS OF REPORTED SEXUAL ABUSE AND REVICTIMIZATION FOR AN URBAN CHILDREN'S ADVOCACY CENTER. Gabriella Miller*, Cydney Nguyen*, and Wendy Lane, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

O.17 2:00 p.m.

BURDEN OF GUN VIOLENCE IN PEDIATRIC INTENSIVE CARE UNITS (PICUS) IN THE UNITED STATES. Jessica Lee*, Cortney Foster, and Dayanand Bagdure, Division of Pediatric Critical Care Medicine, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

O.18 2:15 p.m.

ANALYSIS OF MALARIA INFECTION AND DISEASE IN THE FIRST TWO YEARS OF LIFE. Kieran Tebben* and Miriam Laufer, Division of Associate Director for Malaria Research, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

Break (4:30 – 4:35 p.m.)

O.19 2:35 p.m.

IDENTIFICATION OF HOST TARGETS FOR INFLUENZA A VIRUS USING A YEAST SCREEN. Alexandra Vlk*, Stuart Weston, and Matthew Frieman, Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD.

O.20 2:50 p.m.

RISK FACTORS FOR INCREASED SHOULDER *CUTIBACTERIUM ACNES* BURDEN. Samir Kaveeshwar*, Derek Jones, and Mohit Gilotra, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

O.21 3:05 p.m.

COMORBIDITY AND SEVERITY OF ILLNESS RISK ADJUSTMENT FOR HOSPITAL-ONSET *CLOSTRIDIUM DIFFICILE* INFECTION. Stephanie Cabral*, Kerri Thom, Lisa Pineles, Natalia Blanco, Yuan Wang, and Anthony Harris, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

Oral Presentation Session III

3:30 – 5:20 p.m.

Leadership Hall (MSTF)

O.22 3:30 p.m.

GLUCOSE-6-PHOSPHATE DEHYDROGENASE ACTIVITY IN BIPOLAR DISORDER AND SCHIZOPHRENIA: RELATIONSHIP TO MITOCHONDRIAL IMPAIRMENT. Joseph Puthumana* and William Regenold, Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD.

O.23 3:45 p.m.

IMPACT OF PHAGOCYTOSIS ON MICROGLIAL ACTIVATION IN THE INJURED BRAIN. Alexa Ciesinski*, Rodney Ritzel, and David Loane, STAR-ORC, University of Maryland School of Medicine, Baltimore, MD.

O.24 4:00 p.m.

EXPANSION OF TRAUMATIC HEMORRHAGIC CONTUSION IN CERVICAL SPINAL CORD INJURY. Noah Lessing*, Harry Mushlin¹, Timothy Chryssikos¹, Jeffrey Oliver¹, Bizhan Aarabi², and Gary Schwartzbauer³, ²Division of Neurotrauma and ³Program in Trauma, R. Adams Cowley Shock Trauma Center, ¹Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

O.25 4:15 p.m.

ALTERATIONS IN PARIETAL LOBE RESTING STATE FUNCTIONAL CONNECTIVITY CORRELATE WITH STRESS PERCEPTION IN TYPE 1 DIABETES. Muhammad Hamza* and Janice Hwang, Division of Endocrinology, Department of Medicine, Yale University School of Medicine School of Medicine, New Haven, CT.

Break (4:30 – 4:35 p.m.)

O.26 4:35 p.m.

OBSERVATION OF ERYTHROCYTE DYNAMICS IN THE GLAUCOMATOUS OPTIC NERVE USING ERYTHROCYTE MEDIATED ANGIOGRAPHY. Victoria Chen*, Christopher Le*, Breanna Tracey¹, Lakyn Mayo², Ginger Thompson², and Osamah Saeedi², ²Department of Ophthalmology and Visual Sciences, ¹University of Maryland School of Medicine, Baltimore, MD.

O.27 4:50 p.m.

CILIARY BODY CHANGES IN PEDIATRIC PATIENTS WITH GLAUCOMA. Joy Li*, Mona Kaleem¹, Osamah Saeedi¹, Moran R. Levin¹, Azam Qureshi², and Janet Alexander¹, ¹Department of Ophthalmology and Visual Sciences, ²University of Maryland School of Medicine, Baltimore, MD.

O.28 5:05 p.m.

STRUCTURAL CHANGES FOLLOWING EARLY CHILDHOOD LENSECTOMY AND THE RISK FOR SECONDARY GLAUCOMA. Libby Wei*, Sachin Kalarn, Osamah Saeedi, Moran Roni Levin, and Janet Alexander, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

Oral Presentation Session IV

3:30 – 5:20 p.m

Hosick Lecture Hall (Bressler)

O.29 3:30 p.m.

STRESS IN A DISH: MODELING PRECONCEPTUAL STRESS IN MOUSE EPIDIDYMAL EPITHELIAL CELLS. Nickole Kanyuch*, Christopher Morgan¹, Jennifer Chan¹, Weiliang Huang², Maureen Kane², and Tracy Bale¹, ¹Department of Pharmacology, University of Maryland School of Medicine and ²University of Maryland School of Pharmacy, Baltimore, MD.

O.30 3:45 p.m.

SURGICAL MANAGEMENT OF DIASTASIS RECTI: A SYSTEMATIC REVIEW OF INSURANCE COVERAGE IN THE UNITED STATES. Carly Rosen*, LediBabari M. Ngaage¹, Erin Rada¹, Sheri Slezak¹, Stephen Kavac², and Yvonne Rasko¹, ¹Division of Plastic Surgery and ²Division of General Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.31 4:00 p.m.

TRANSPLANTING THE WAY TO CLEARANCE: LESSONS LEARNED FROM DEVELOPMENT OF A HIDRADENITIS SUPPURATIVA (HS) XENOGRAFT MOUSE MODEL. Qaren Quartey*, Robert J. Miller¹, Uchechukwu J. Okoh¹, Lloyd S. Miller¹, Ginette A. Okoye², and Angel S. Byrd², ¹Department of Dermatology, Johns Hopkins University School of Medicine, Baltimore, MD, and ²Department of Dermatology, Howard University College of Medicine, Washington, D.C.

O.32 4:15 p.m.

EVALUATION OF THE THERAPEUTIC POTENTIAL OF MULTIVALENT HER3 AFFIBODIES IN OVARIAN CANCER TREATMENT. Daphine Kwesiga*, Steven Jay, and John Schardt, Division of Engineering, Department of Bio-Engineering, University of Maryland, College Park School of Engineering, College Park, MD.

Break (2:30– 2:35 p.m.)

O.33 4:35 p.m.

SURVIVAL OUTCOMES OF INITIAL LOCAL THERAPY ON CLINICALLY LOCALIZED GLEASON 9-10 PROSTATE CANCER: A SEER DATABASE ANALYSIS. Amy Nemirovsky*, Hubert Huang, Michael Nasland, and Mohammad Minjah Siddiqui, Division of Urology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

O.34 4:50 p.m.

CLINICAL AND MOLECULAR CHARACTERISTICS OF LONG TERM SURVIVORS OF CNS TUMORS: A REPORT FROM THE NEURO-ONCOLOGY BRANCH NATURAL HISTORY STUDY. James Frisbie*, Elizabeth Vera, Mark Gilbert, Terri Armstrong, National Institute of Health - Neuro Oncology Branch (NCI), Bethesda, MD.

O.35 5:05 p.m.

THE FUTURE OF DRUG DESIGN: PREDICTING ZTA-DNA MOLECULAR INTERACTIONS IN EBV USING METADYNAMICS SIMULATIONS. Netsanet Woldegerima*, Debabrata Pramanik, and Pratyush Tiwary, Institute of Physical Science and Technology, University of Maryland, College Park, College Park, MD.

Poster Presentation Schedule

Presenters are indicated with “*” next to their names.

Poster Presentation Session I

1:30 – 2:30 p.m.

MSTF Second Floor

P.01 1:30 p.m.

A QUALITY IMPROVEMENT PROJECT ASSESSING COMPLIANCE TO NEWLY IMPLEMENTED RBC TRANSFUSION GUIDELINES IN THE NICU. Cara Lee*, Alexandre Medina de Jesus¹, Kelly Tracey¹, and Sripriya Sundararajan², ²Division of Neonatology, ¹Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.02 1:30 p.m.

IMPACT OF OBTAINING ADMISSION LABORATORY TESTS FROM CORD BLOOD IN PRETERM INFANTS \leq 28 WEEKS GESTATION. Simin Hossain*, Nina Shah¹, Alexandre Medina², and Alison Falck¹, ¹Division of Neonatology, ²Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.03 1:30 p.m.

LVOTD MODEL FOR CARDIAC OUTPUT DETERMINATION IN CRITICALLY ILL PATIENTS. Ehson Aligholizadeh*, Rajan Patel¹, Syeda Fatima¹, Samuel Galvagno, Jr.², Daniel Haase³, and Sarah Murthi⁴, ¹Department of Trauma, ²Department of Anesthesiology, ³Department of Critical Care, and ⁴Division of Trauma and Critical Care, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.04 1:30 p.m.

ANESTHETIC MANAGEMENT OF PATIENTS FOLLOWING TRAUMATIC INJURY WITH RESUSCITATIVE ENDOVASCULAR BALLOON OCCLUSION OF THE AORTA (REBOA). Christopher Parrino*, Ashton Engdahl¹, Philip Wasicek², Samuel Galvagno Jr.³, Megan Brenner⁴, and Maureen McCunn³, ³Division of Trauma Anesthesiology, Department of Anesthesiology, and ⁴Division of Trauma and Surgical Critical Care, ²Department of Surgery, and ¹University of Maryland School of Medicine, Baltimore, MD.

P.05 1:30 p.m.

PREDICTORS OF EARLY POSTOPERATIVE PAIN FOLLOWING ORTHOPAEDIC SURGERY. Jamie Kator*, Ali Aneizi¹, Patrick Sajak², Min Zhan², and R. Frank Henn III¹, ¹Department of Orthopaedics and ²Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

P.06 1:30 p.m.

PREDICTORS OF EARLY PATIENT SATISFACTION FOLLOWING ORTHOPAEDIC SURGERY. Bailey Howard*, Ali Aneizi¹, Vidushan Nadarajah¹, Patrick Sajak², Min Zhan³, and R. Frank Henn III¹, ¹Division of Sports Medicine, ²Department of Orthopaedics and ³Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

P.07 1:30 p.m.

THE RELATIVE IMPORTANCE OF SOCIOECONOMIC AND CLINICAL CONCERNS OF ORTHOPAEDIC TRAUMA PATIENTS FOLLOWING INJURY. Stephan Olaya*, Katherine Ordonio, Alexandra Mulliken, Gerard Slobogean, and Nathan O'Hara, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.08 1:30 p.m.

PROMIS PHYSICAL FUNCTION TWO WEEKS FOLLOWING ORTHOPAEDIC SURGERY. Gregory Perraut*, Ali Aneizi¹, Patrick Sajak¹, Vidushan Nadarajah¹, Min Zahn¹, and R. Frank Henn III², ²Division of Sports Medicine, ¹Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.09 1:30 p.m.

PREOPERATIVE EXPECTATIONS AND EARLY POSTOPERATIVE MET EXPECTATIONS OF EXTREMITY ORTHOPAEDIC SURGERY. Leah Henry*, Ali Aneizi, Vidushan Nadarajah, Michael Smuda, Jonathan Packer, and R. Frank Henn III, Division of Sports Medicine, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

P.10 1:30 p.m.

DURATION OF FOLEY BALLOON PLACEMENT AS A PREDICTOR OF SUCCESSFUL INDUCTION IN SINGLETON PREGNANCIES. Martha Coghlan*, Julie Hurvitz¹, Ruofan Yao², Kristin Atkins³, and Sarah Crimmins⁴, ²Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, Loma Linda University Health, Loma Linda, CA, ³Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, Howard University College of Medicine, Washington, D.C., and ⁴Division of Maternal Fetal Medicine, ¹Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

P.11 1:30 p.m.

THE BENEFITS OF IMPROVED DISEASE RECOGNITION ON PATIENT SAFETY AND DISEASE OUTCOMES IN CHRONIC KIDNEY DISEASE. Eli Farhy* and Jeffrey Fink, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.13 1:30 p.m.

ASSESSING THE CAPABILITY OF KIDNEY DONOR DEMOGRAPHICS AND BASELINE BIOPSY SCORES IN PREDICTING FUTURE GRAFT FUNCTION. Grahya Guntur*, Jonathan Bromberg¹, Kevin Chen¹, and Tapati Stalam², ¹Division of Transplant, Department of Surgery and ²Department of Internal Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.14 1:30 p.m.

TRANSCRIPTOMIC STUDY OF THE DETERMINANTS INVOLVED IN *BIFIDOBACTERIUM PSEUDOLONGUM* ANTI-INFLAMMATORY ACTIVITY. Julie Gutekunst*, Emmanuel Mongodin, and Lauren Hittle, Institute for Genome Sciences, Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD.

P.15 1:30 p.m.

STRUCTURE-FUNCTION ANALYSIS OF THE PROSAAS CHAPERONE IN NEURODEGENERATION-RELATED ASSAYS. Hannah Kass*, Tim Jarvela, and Iris Lindberg, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

P.16 1:30 p.m.

EVALUATION OF EFFICACY AND MARKERS FOR POSITIVE OUTCOMES IN A TRAUMA-FOCUSED MULTI-FAMILY GROUP. Harris Feldman*, Eryn Trauben¹, Deborah Medoff², and Laurel Kiser³, ³Division of Psychiatric Services Research, ²Department of Psychiatry, ¹University of Maryland School of Medicine, Baltimore, MD.

P.17 1:30 p.m.

VIOLENT INJURY AS A PREDICTOR OF FUTURE VIOLENT INJURY AND VIOLENT CRIME COMMISSION. Joshua Finkel* and Zachary Dezman, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

Break (2:30 – 2:35 p.m.)

Poster Presentation Session II

2:35 – 3:35 p.m.
MSTF Second Floor

P.18 2:35 p.m.

USING METABOLIC PATHWAYS TO IMPROVE DIAGNOSIS AND RISK-STRATIFICATION OF PROSTATE CANCER. Harrison Bell*, Aymen Alqazzaz¹, Dexue Fu², Arman Karimi³, Mary McKenna³, and M. Minhaj Siddiqui⁴, ²Division of Oncology and ⁴Division of Urologic Oncology, Department of Surgery and ³Department of Pediatrics, ¹University of Maryland School of Medicine, Baltimore, MD.

P.19 2:35 p.m.

LEARNING CURVE FOR MAGNETIC RESONANCE IMAGING/ULTRASOUND FUSION BIOPSY IN DETECTING PROSTATE CANCER USING CUSUM ANALYSIS. Linh Xu*, Nancy Ye¹, Michael Naslund¹, Jade Wong², Amelia Wnorowski², and Mohammad M. Siddiqui¹, ¹Division of Urology, Department of Surgery and ²Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.20 2:35 p.m.

USE OF 3D PRINTED PROSTATE MODELS IN PREOPERATIVE PLANNING TO ASSIST RADICAL PROSTATECTOMY. Zachary Bolten*, Hubert Huang¹, Amelia Wnorowski², Jeffrey Hirsch², and M. Minhaj Siddiqui³, ²Department of Diagnostic Radiology and Nuclear Medicine and ³Division of Urology, Department of Surgery, ¹University of Maryland School of Medicine, Baltimore, MD.

P.21 2:35 p.m.

COMBINATION OF MAGNETIC RESONANCE IMAGING AND DECIPHER TEST PROVIDE IMPROVED PREDICTIVE VALUE OF EXTRACAPSULAR EXTENSION IN PROSTATE CANCER. Michael Tzeng*, Michael Naslund¹, Jade Wong-You-Cheong², Amelia Wnorowski², and M. Minhaj Siddiqui¹, ¹Division of Urology, Department of Surgery and ²Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.22 2:35 p.m.

VALIDATION OF AN MRI-BASED PROSTATE CANCER GLEASON SCORE PREDICTIVE NOMOGRAM. Adrianna Lee*, Amelia Wnorowski¹, Nancy Ye², Linhan Xu², Bradford Wood³, and M. Minhaj Siddiqui², ¹Department of Radiology and ²Department of Urology, University of Maryland School of Medicine, Baltimore, MD and ³Department of Molecular Imaging, National Cancer Institute, National Institutes of Health, Bethesda, MD.

P.23 2:35 p.m.

FN14-RELATED ALTERATIONS IN GLIOBLASTOMA CELL MOVEMENT AND NUCLEAR INTEGRITY IN THE SETTING OF CONFINED MIGRATION. Neila Kline*, Graeme Woodworth¹, and Jeff Winkles², ¹Department of Neurosurgery and ²Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.24 2:35 p.m.

EFFECT OF DECREASED ADHESIVITY RECEPTOR TARGETED NANOPARTICLE DELIVERY IN A MELANOMA BRAIN METASTASIS MODEL. Lucy Wang*, Jeffrey Winkles¹, Graeme Woodworth², Nathan Roberts¹, Aniket Wadajkar¹, and Rebeca Galisteo¹, ²Division of Neurosurgery, ¹Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.25 2:35 p.m.

LNC-RNA DANCR PROMOTES LUNG CANCER THROUGH INVOLVEMENT IN WNT/B-CATENIN SIGNALING. Nicholas Musacchio*, Pang-Kuo Lo, and Qun Zhou, Department of Biochemistry and Molecular Biology, University of Maryland School of Medicine, Baltimore, MD.

P.26 2:35 p.m.

STAGE III NON-SMALL CELL LUNG CANCER CLINICAL OUTCOMES WITH SURGICAL RESECTION AFTER DEFINITIVE NEOADJUVANT CHEMORADIOTHERAPY. Ilaria Caturegli*, Melissa Vyfhuis¹, Whitney Burrows², Mohan Suntharalingam¹, Shahed Badiyan¹, and Pranshu Mohindra¹, ¹Department of Radiation Oncology, and ²Division of Thoracic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.27 2:35 p.m.

IMPROVING HIV OUTCOMES AMONG HIV-INFECTED PATIENTS WITH CANCER FOLLOWED IN AN INTEGRATED, MULTIDISCIPLINARY, INFECTIOUS DISEASE/ CANCER CLINIC. Helen Cheung*, Kristen Stafford¹, and David Riedel², ¹Division of Genomic Epidemiology and Clinical Outcomes, Department of Epidemiology and Public Health and ²Division of Infectious Diseases, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.28 2:35 p.m.

SUPPORTING THE UNMET CARE NEEDS OF OLDER ADULTS WITH ADVANCED CANCER. Christine Server* and Ryan Nipp, Massachusetts General Hospital, Boston, MA.

P.29 2:35 p.m.

STRIATAL MICROCIRCUIT DYNAMICS OF ETHANOL HABITS. Cecelia Kim* and Brian Mathur, Department of Pharmacology, University of Maryland School of Medicine, Baltimore, MD.

P.30 2:35 p.m.

BARRIERS TO BYSTANDER NALOXONE DISTRIBUTION AND ADMINISTRATION IN BALTIMORE. Valerie Jenkins*, Brent Hurt*, Atizaz Hussain¹, Ilya Lazzeri¹, Siamak Moayed², Hong Kim², and Stephen Schenkel², ²Department of Emergency Medicine, ¹University of Maryland School of Medicine, Baltimore, MD.

P.31 2:35 p.m.

PREVALENCE OF FENTANYL EXPOSURE AMONG ED PATIENTS WITH HISTORY OF OPIOID ABUSE. Ilya Lazzeri*, Atizaz Hussain*, Brenten Hurt¹, Valerie Jenkins¹, Siamak Moayed², Stephen Schenkel², and Hong Kim², ²Department of Emergency Medicine, ¹University of Maryland School of Medicine, Baltimore, MD.

P.32 2:35 p.m.

BRIVARACETAM: A NOVEL NON-OPIOID TREATMENT FOR PAIN ASSOCIATED WITH PERIPHERAL NERVE INJURY. Solomiya Tsymbalyuk*, Madeleine Smith¹, Orest Tsymbalyuk¹, and Marc J. Simard², ²Department of Neurosurgery, ¹University of Maryland School of Medicine, Baltimore, MD.

P.33 2:35 p.m.

PROVIDER ATTITUDES TOWARD NALOXONE DISTRIBUTION IN THE CLINICAL SETTING. Nora Loughry*, Deborah Stein¹, and Erin Hall², ¹Division of Trauma, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD, and ²Division of Critical Care, Department of Surgery, MedStar Washington Hospital Center, Washington, DC.

P.34 2:35 p.m.

LIPID FINDINGS FROM THE DIABETES EDUCATION TO LOWER INSULIN, SUGARS, AND HUNGER (DELISH) STUDY. Samantha Schleicher*, Ashley Mason¹, Laura Saslow², Patricia Moran¹, Elissa Epel³, and Frederick Hecht¹, ¹Osher Center for Integrative Medicine and ³Aging, Metabolism, and Emotions Center, Department of Psychiatry, University of California, San Francisco School of Medicine, San Francisco, CA and ²Department of Health Behavior and Biological Sciences, University of Michigan School of Nursing, Ann Arbor, MI.

P.34A 2:35 p.m.

EFFECT OF INTRAVITREAL ANTI-VEGF AGENTS ON INTRAOCULAR PRESSURE. David Na*, Ramya Swamy, and Sachin Kalarn, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

Poster Takedown for Poster I and Poster II (3:35 – 3:45 p.m.)

Poster Setup for Poster III (3:45 – 4:15 p.m.)

Poster Presentation Session III

4:15 – 5:15 p.m.

MSTF Second Floor

P.35 4:15 p.m.

CORRELATING MRI EVIDENCE OF CEREBRAL ISCHEMIA WITH MORTALITY FOLLOWING DECOMPRESSIVE CRANIECTOMY. Wesley Shoap* and Bizhan Aarabi, ¹Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

P.36 4:15 p.m.

UNDERSTANDING THE SHORT-TERM NEUROLOGICAL IMPACT OF EXPOSURE TO HYPEROXIA FOLLOWING CANINE CARDIAC ARREST. Da Bin Lee*, Timothy Pearson¹, Julie Proctor¹, Robert Rosenthal², and Gary Fiskum¹, ¹Department of Anesthesiology and ²Division of Hyperbaric Medicine, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.37 4:15 p.m.

CORRELATING HOME-BASED UPPER EXTREMITY ACTIVITY MONITORING WITH CLINICAL EVALUATIONS IN PATIENTS WITH CHRONIC STROKE. Kavita Bhatnagar*, Susan Conroy¹, and Christopher Bever², ¹Department of Physical Therapy and Rehabilitation Science and ²Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

P.38 4:15 p.m.

SICKLE CELL TRAIT AND RISK FOR EARLY-ONSET ISCHEMIC STROKE. Rebecca Zhang*, Kathleen Ryan¹, Haley Lopez², Zachary Flair², and Steven Kittner², ¹Division of Endocrinology, Diabetes and Nutrition, Department of Medicine and ²Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

P.39 4:15 p.m.

CHARACTERIZING PERI-ICTAL MOOD CHANGES IN PATIENTS WITH EPILEPSY. Autusa Pahlavan*, Scott Thompson¹, and Jennifer Hopp², ¹Department of Physiology and ²Division of Epilepsy, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

P.40 4:15 p.m.

ALTERED MITOCHONDRIAL FUNCTION MEDIATE THE EFFECT OF HIGH GLUCOSE ON THE PLURIPOTENCY OF EMBRYONIC STEM CELLS. Ben Cornwell* and Peixin Yang, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

P.41 4:15 p.m.

MATERNAL DEPRESSION AS POTENTIAL MODERATOR BETWEEN FOOD INSECURITY AND CHILD HEALTH. Bo Peng*, Bridget Armstrong, Yan Wang, and Maureen Black, Division of Growth and Nutrition, Department of Pediatrics, and University of Maryland School of Medicine, Baltimore, MD.

P.42 4:15 p.m.

PATIENT PREFERENCE AND CONTRACEPTION CONSISTENCY IN SELF-IDENTIFIED LATINA WOMEN IN BALTIMORE: PRELIMINARY REPORT. Meredith Grover* and Diana Carvajal, Department of Family and Community Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.43 4:15 p.m.

MEAN ADMISSION TEMPERATURES IN INFANTS <32 WEEKS GA SUSTAINED AFTER MOVE TO NEW NEONATAL INTENSIVE CARE UNIT. Kelly Pham*, Natalie Davis, and Sara Mola, Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.44 4:15 p.m.

THE IMPACT OF FOOD AND HOUSING INSECURITY ON CHILDHOOD OBESITY IN BALTIMORE CITY. Natalia Perez*, Maureen Black, and Yan Wang, Division of Nutrition and Childhood Development, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

P.45 4:15 p.m.

FOOD ACCESS AND FOOD SECURITY AMONG MEDICAID-INSURED YOUTH TREATED WITH ANTIPSYCHOTIC MEDICATION. Nicole Rangos*, Kristin Bussell¹, Heidi Wehring², Meredith Roberts², Emily Steiner¹, and Gloria Reeves¹, ¹Division of Child Psychiatry, ²Department of Psychiatry, University of Maryland School of Medicine, Baltimore, MD.

P.46 4:15 p.m.

QUALITY OF LIFE IN PATIENTS WITH DELAYED RADIATION INJURY TREATED WITH HYPERBARIC OXYGEN THERAPY. Sam Famenini*, Kinjal Sethuraman, and Melissa Schroeder, Division of Hyperbaric Medicine, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

P.47 4:15 p.m.

VIRTUAL REALITY COMPUTER GAMING MAY ENCOURAGE UPPER EXTREMITY USE IN PERSONS WITH RETT SYNDROME. Molly Himmelrich*, Grace Omotunde¹, Matthew Foreman², Jack Engsberg², and Pamela Diener¹, ¹Department of Neuroscience, Georgetown University School of Medicine, Washington, D.C. and ²Department of Neuroscience, Washington University in St. Louis School of Medicine, St. Louis, MO.

P.48 4:15 p.m.

SURGICAL MANAGEMENT OF GYNECOMASTIA: A REVIEW OF THE CURRENT INSURANCE COVERAGE CRITERIA". Carly Rosen*, LediBabari M. Ngaage¹, Chinezimuzo Ihenatu¹, Adekunle Edegbede², Sheri Slezak¹, and Yvonne Rasko¹, ¹Division of Plastic Surgery and ²Division of Shock Trauma and Plastic Surgery, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.49 4:15 p.m.

GRADUATE PERCEPTION OF COSMETIC SURGERY TRAINING IN PLASTIC SURGERY RESIDENCY AND FELLOWSHIP PROGRAMS. Cecelia Kim*, Ledibabari M Ngaage¹, Carly Rosen², Colton McNicholls³, Fan Liang⁴, and Yvonne Rasko¹, ¹Division of Plastic surgery and ⁴Division of Plastic and Reconstructive Surgery, Department of Surgery, ²University of Maryland School of Medicine and ³Division of Plastic surgery, Department of Surgery, Johns Hopkins Hospital, Baltimore, MD.

P.50 4:15 p.m.

EVALUATING THE THREAT OF CARBAPENEM-RESISTANT *ENTEROBACTER* IN CRITICAL CARE PATIENTS. Matthew Tinkham* and Kristie Johnson, Department of Pathology, University of Maryland School of Medicine, Baltimore, MD.

P.51 4:15 p.m.

CLINICAL FEATURES AND QUALITY OF LIFE IN PATIENTS WITH COMPLEX DEFECTS OF THE ABDOMINAL WALL. Lauren Pace*, Adekunle Elegbede¹, Yvonne Rasko², Fan Liang³, Michael Grant³, and Arthur Nam³, ¹Department of Plastic and Reconstructive Surgery, Johns Hopkins, ²Division of Plastic and Reconstructive Surgery, University of Maryland Medical Center, and ³Division of Plastic, Reconstructive, and Maxillofacial Surgery, Department of R. Adams Cowley Shock Trauma Center, University of Maryland School of Medicine, Baltimore, MD.

P.52 4:15 p.m.

OUTCOMES OF ABDOMINAL RECONSTRUCTION AT THE TIME OF CRS AND HIPEC. Brigit Baglien*, LediBabari Millie Ngaage¹, Carly Rosen¹, Erin Rada¹, Nader Hanna², and Yvonne Rasko¹, ¹Division of Plastic Surgery and ²Division of Oncology, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

P.53 4:15 p.m.

CHILDREN WITH BOTH CEREBRAL MALARIA AND SEVERE MALARIAL ANEMIA HAVE A MALARIA EXPOSURE PROFILE DISTINCT FROM THOSE WITH OTHER SEVERE MALARIA SYNDROMES. Abby Goron* and Mark Travassos, Division of Infectious Diseases and Tropical Pediatrics, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

Poster Takedown for Poster III (5:15 – 5:25 p.m.)