



UNIVERSITY *of* MARYLAND  
SCHOOL OF MEDICINE

40<sup>th</sup> Annual  
**Medical Student Research Day**

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

Thursday, September 28, 2017  
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.  
Assistant Professor of Microbiology and Immunology  
Director of Student Summer Research and Community Outreach

Donald R. Matteson, Ph.D.  
Associate Professor of Physiology  
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

Ida Ahmadizadeh, MS IV

Sarah Flynn, MS IV

Ali Mehlhorn, MS IV

Sarah Chang, MS IV  
MSRD Event Coordinator

Jeffrey Freiberg, MS IV

Katie Mistretta, MS IV

Elena Donald, MS IV  
MSRD Event Coordinator

Leila Kazeroon, MS IV

Josh Olexa, MS IV

Melissa Langer, MS IV

## 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, and AOA student member judges who so willingly provided their time and knowledge.

Dr. Elizabeth Balcer-Kubiczek	Dr. Wallace Johnson	Dr. Mohammed Sayeedur
Dr. Aditi Banerjee	Dr. Laundette Jones	Rahman
Dr. Laura Buchanan	Dr. Olga Latinovic	Dr. Lynn Schriml
Dr. France Carrier	Dr. Richard Lovering	Dr. James Snider III
Dr. Wan Tsu Chang	Dr. Kimberly Lumpkins	Dr. Nanette Steinle
Dr. Stephen Davis	Dr. Dean Mann	Dr. Sripriya Sundararajan
Dr. Natalie Davis	Dr. Pranshu Mohindra	Dr. Kerri Thom
Dr. Vasken Dilsizian	Dr. Elizabeth O'Hanlon	Dr. Richard Thompson
Dr. Colleen Driscoll	Dr. Marzena Pazgier	Dr. Leonardo Tonelli
Dr. Joseph Gillespie	Dr. Edna Pereira	Dr. Franklin Toapanta
Dr. Lynn Grattan	Dr. William Randall	Dr. Mohan Tulapurkar
Dr. Kim Hankey	Dr. Krishanu Ray	Dr. Shivaprasad Venkatesha
Dr. Bret Hassel	Dr. Boris Sabirzhanov	Dr. Rezwanul Wahid
Dr. Ronna Hertzano	Dr. Ahmed Saleh	Dr. Gentry Wilkerson
Dr. Xiaofeng Jia	Dr. Chinmoy Sarkar	Dr. Zhigyong Zhao

On this special anniversary event, we would like to commemorate the following individuals who have made impactful contributions to the development of Medical Student Research Day and championed medical student research at University of Maryland School of Medicine (UM SOM) during the past 40 years.

Angela Brodie, Ph.D., FAACR  
Late Professor Emeritus at UM SOM

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

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

# 40<sup>th</sup> Annual Medical Student Research Day

Thursday, September 28, 2017

Noon – 7:00 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 &amp; II only)</i>
12:00 – 1:20 p.m.	Registration
<b>Lunch &amp; Keynote Address</b>	<b>12:00 – 1:30 p.m.</b>
12:00 – 1:20 p.m.	Lunch – MSTF Atrium
12:20 – 12:40 p.m.	Opening Remarks <b>Gregory B. Carey, Ph.D.</b> Assistant Professor of Microbiology and Immunology Director of Student Summer Research and Community Outreach
	<b>Elena Donald, MS IV</b> President, Maryland Beta Chapter Alpha Omega Alpha Honor Medical Society
12:40 – 1:10 p.m.	Keynote Address <b>Kerri A. Thom, M.D., M.S.</b> Associate Professor of Epidemiology and Public Health Assistant Dean for Student Research and Education Director of the Office of Student Research
1:10 – 1:20 p.m.	Schedule & Procedures <b>Qi Cao, J.D.</b> Research Coordinator
1:20 – 1:30 p.m.	<i>Break</i>
<b>Oral Presentations</b>	<b>1:30 – 5:20 p.m.</b>
1:30 – 3:20 p.m.	Oral Presentation Session I – Taylor Hall Oral Presentation Session II – Hosick Hall Oral Presentation Session V – Leadership Hall <i>(5-minute break at 2:30 p.m.)</i>
3:20 – 3:30 p.m.	<i>Break</i>
3:30 – 5:20 p.m.	Oral Presentation Session III – Taylor Hall Oral Presentation Session IV – Hosick Hall <i>(5-minute break at 4:30 p.m.)</i>
<b>Poster Presentations</b>	<b>1:30 – 5:25 p.m.</b>
1:30 – 2:30 p.m.	Poster Presentation Session I – Bressler First Floor and Mezzanine
2:30 – 2:35 p.m.	<i>Break</i>
2:35 – 3:35 p.m.	Poster Presentation Session II – Bressler First Floor and Mezzanine

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 – Bressler First Floor and Mezzanine  
5:15 – 5:25 p.m. *Poster Takedown (Poster Sessions III only)*

**Awards Banquet**

**5:30 – 7:00 p.m.**

5:30 – 7:00 p.m. Dinner – MSTF Atrium  
5:50 – 6:15 p.m. Honoring Faculty Mentors  
6:20 – 6:50 p.m. Presentation of Awards & Certificates  
**Gregory B. Carey, Ph.D.**  
**Kerri A. Thom, M.D., M.S.**  
6:50 – 7:00 p.m. Closing Remarks

## Presentation Schedule (Ordered by Session and Presentaiton ID)

Session	PID	Time	Location	Last Name	First Name	Class	Program
Oral I	O.01	1:30 PM	Taylor Lecture Hall	Woodard	Jennifer	2020	Union Memorial Hospital
Oral I	O.02	1:45 PM	Taylor Lecture Hall	Patnaik	Anna	2020	PRISM
Oral I	O.03	2:00 PM	Taylor Lecture Hall	Uddin	Olivia	2020	PRISM
Oral I	O.04	2:15 PM	Taylor Lecture Hall	Kozak	Zofia	2020	PRISM
Oral I	O.05	2:35 PM	Taylor Lecture Hall	Sharma	Amit	2020	PRISM
Oral I	O.06	2:50 PM	Taylor Lecture Hall	Beck	Brenna	2020	Independent
Oral II	O.07	1:30 PM	Hosick Lecture Hall	Chen	Huanwen	2020	Independent
Oral II	O.08	1:45 PM	Hosick Lecture Hall	Sanusi	Ololade	2020	Independent
Oral II	O.09	2:00 PM	Hosick Lecture Hall	Brilliant	Justin	2020	PRISM
Oral II	O.10	2:15 PM	Hosick Lecture Hall	Patel	Parth	2020	PRISM
Oral II	O.11	2:35 PM	Hosick Lecture Hall	Choksi	Ankur	2020	Leah Menshouse Springer
Oral II	O.12	2:50 PM	Hosick Lecture Hall	Hu	Jiun Yiing	2020	Rad Onc, AOA
Oral II	O.13	3:05 PM	Hosick Lecture Hall	Kaplan	Emma	2020	PRISM
Oral III	O.14	3:30 PM	Taylor Lecture Hall	Mathias	Trevor	2020	MSTP
Oral III	O.15	3:45 PM	Taylor Lecture Hall	Seale	Katelyn	2020	PRISM
Oral III	O.16	4:00 PM	Taylor Lecture Hall	Rebechi	Melanie	2020	Independent
Oral III	O.17	4:15 PM	Taylor Lecture Hall	Raman	Natasha	2018	Independent
Oral III	O.18	4:35 PM	Taylor Lecture Hall	Alqazzaz	Aymen	2020	Independent
Oral III	O.19	4:50 PM	Taylor Lecture Hall	Brackett	Arielle	2020	Rad Onc
Oral III	O.20	5:05 PM	Taylor Lecture Hall	Vaidya	Ankur	2020	Rad Onc
Oral IV	O.21	3:30 PM	Hosick Lecture Hall	Jolissaint	Josef	2019	Shock Trauma Orthopedic
Oral IV	O.22	3:45 PM	Hosick Lecture Hall	La	Ashley	2020	PRISM
Oral IV	O.23	4:00 PM	Hosick Lecture Hall	Stevens	Kali	2020	PRISM
Oral IV	O.24	4:15 PM	Hosick Lecture Hall	Saylor	Regina	2018	Independent
Oral IV	O.25	4:35 PM	Hosick Lecture Hall	Simpson	Nana	2020	PRISM
Oral IV	O.26	4:50 PM	Hosick Lecture Hall	Kaslow	Sarah	2018	Independent
Oral V	O.27	1:30 PM	Leadership Hall	Blake	Jasmine	2020	Massachusetts General Hospital
Oral V	O.28	1:45 PM	Leadership Hall	Sikorski	Michael	2020	MSTP
Oral V	O.29	2:00 PM	Leadership Hall	Kayastha	Darpan	2020	PRISM
Oral V	O.30	2:15 PM	Leadership Hall	Yoon	Ji Ae	2020	PRISM, IDSA
Oral V	O.31	2:35 PM	Leadership Hall	Devlin	Stephen	2020	AATS
Oral V	O.32	2:50 PM	Leadership Hall	Fan	Kevin	2020	PRISM
Oral V	O.33	3:05 PM	Leadership Hall	Renner Tracey	Corinne Breanna	2020 2020	PRISM, Fight for Sight PRISM
Poster I	P.02	Presenter Withdrew		Chen	Jane	2019	Independent
Poster I	P.03	1:30 PM	Bressler 1st Floor	Engdahl	Ashton	2020	Independent
Poster I	P.04	1:30 PM	Bressler 1st Floor	Born	Louis	2020	T32
Poster I	P.05	1:30 PM	Bressler 1st Floor	Cheung	Helen	2020	PRISM

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Session	PID	Time	Location	Last Name	First Name	Class	Program
Poster I	P.06	1:30 PM	Bressler 1st Floor	Durham	Allison	2020	ASH HONORS Award
Poster I	P.07	1:30 PM	Bressler 1st Floor	Hodges	Megan	2020	Independent
Poster I	P.08	1:30 PM	Bressler 1st Floor	Ye	Nancy	2018	Independent
Poster I	P.09	1:30 PM	Bressler 1st Floor	Zainib	Maliha	2020	Independent
Poster I	P.10	1:30 PM	Bressler Mezzanine	Burgoyne	Molly	2020	PRISM
Poster I	P.11	1:30 PM	Bressler Mezzanine	Kolb	Stephanie	2020	Independent
Poster I	P.12	1:30 PM	Bressler Mezzanine	Ahmed	Amiya	2020	Independent
Poster I	P.13	1:30 PM	Bressler Mezzanine	Cherng	Hua-Ren	2020	ACMG
Poster I	P.14	1:30 PM	Bressler Mezzanine	Manglorkar	Richa	2019	PRISM
Poster I	P.15	1:30 PM	Bressler Mezzanine	Tanigawa	Makoto	2020	Independent
Poster I	P.16	1:30 PM	Bressler Mezzanine	Reddi	Ashwin	2020	Independent
Poster II	P.17	2:35 PM	Bressler 1st Floor	Anselmo	Freidrich	2020	PRISM
Poster II	P.18	2:35 PM	Bressler 1st Floor	Crabill	George	2020	PRISM
Poster II	P.19	2:35 PM	Bressler 1st Floor	Wu	Yinglun	2020	PRISM
Poster II	P.20	2:35 PM	Bressler 1st Floor	Chen	Jane (Annie)	2020	PRISM
Poster II	P.21	2:35 PM	Bressler 1st Floor	Theodoru	Andrea	2020	NIDDK
Poster II	P.22	2:35 PM	Bressler 1st Floor	Lerner	Megan	2020	Independent
Poster II	P.23	2:35 PM	Bressler 1st Floor	Chen	Huanwen	2020	Independent
Poster II	P.24	2:35 PM	Bressler 1st Floor	Whalen	Hallie	2020	SPORT
Poster II	P.25	2:35 PM	Bressler 1st Floor	Gutierrez	Benjamin	2020	Independent
Poster II	P.26	2:35 PM	Bressler Mezzanine	Browne	Kathleen	2019	Independent
Poster II	P.27	2:35 PM	Bressler Mezzanine	Bears	Breanne	2019	Independent
Poster II	P.28	2:35 PM	Bressler Mezzanine	Coghlan	Martha	2020	Independent
Poster II	P.29	2:35 PM	Bressler Mezzanine	Alvarado	Chelsea	2020	SPORT Program
Poster II	P.30	2:35 PM	Bressler Mezzanine	Sallman	Zahur	2020	PRISM
Poster II	P.31	2:35 PM	Bressler Mezzanine	Ong	Sharon	2019	Independent
Poster II	P.32	2:35 PM	Bressler Mezzanine	Krevitz	Jacqueline	2020	Independent
Poster II	P.33	2:35 PM	Bressler Mezzanine	Xie	Vivien	2020	PRISM
Poster III	P.34	4:15 PM	Bressler 1st Floor	Woodard	Jennifer	2020	QIPS Council
Poster III	P.35	4:15 PM	Bressler 1st Floor	Tam	Tammie	2020	PRISM
Poster III	P.36	4:15 PM	Bressler 1st Floor	Tran	Katherine	2019	Independent
Poster III	P.37	4:15 PM	Bressler 1st Floor	Billings Burval	Katherine MaryBrooke	2020 2020	Independent Independent
Poster III	P.38	4:15 PM	Bressler 1st Floor	Cheo	Savannah	2020	Independent
Poster III	P.39	4:15 PM	Bressler 1st Floor	Chen	Huanwen	2020	Independent
Poster III	P.40	4:15 PM	Bressler 1st Floor	Lee Park	Owen	2020	SPORT
Poster III	P.41	4:15 PM	Bressler 1st Floor	Anderson	Braden	2020	Independent
Poster III	P.42	4:15 PM	Bressler 1st Floor	Moore	Michelle	2020	Independent
Poster III	P.43	4:15 PM	Bressler Mezzanine	Laps	Alexandra	2020	Independent
Poster III	P.44	4:15 PM	Bressler Mezzanine	Diedrich	Aloise	2020	Independent
Poster III	P.45	4:15 PM	Bressler Mezzanine	Klein	Ashley	2020	PRISM

## Presentation Schedule (Ordered by Session and Presentaiton ID)

Session	PID	Time	Location	Last Name	First Name	Class	Program
Poster III	P.46	4:15 PM	Bressler Mezzanine	Shea	Phelan	2019	Shock Trauma Orthopaedics
Poster III	P.47	4:15 PM	Bressler Mezzanine	Gao	Shuna	2020	PRISM
Poster III	P.48	4:15 PM	Bressler Mezzanine	Park	Jessica	2020	PRISM



## Presentation Schedule (Ordered by Name)

Last Name	First Name	Class	Program	Session	PID	Time	Location
Ahmed	Amiya	2020	Independent	Poster I	P.12	1:30 PM	Bressler Mezzanine
Alqazzaz	Aymen	2020	Independent	Oral III	O.18	4:35 PM	Taylor Lecture Hall
Alvarado	Chelsea	2020	SPORT Program	Poster II	P.29	2:35 PM	Bressler Mezzanine
Anderson	Braden	2020	Independent	Poster III	P.41	4:15 PM	Bressler 1st Floor
Anselmo	Freidrich	2020	PRISM	Poster II	P.17	2:35 PM	Bressler 1st Floor
Bears	Breanne	2019	Independent	Poster II	P.27	2:35 PM	Bressler Mezzanine
Beck	Brenna	2020	Independent	Oral I	O.06	2:50 PM	Taylor Lecture Hall
Billings	Katherine	2020	Independent	Poster III	P.37	4:15 PM	Bressler 1st Floor
Blake	Jasmine	2020	Mass. General Hospital	Oral V	O.27	1:30 PM	Leadership Hall
Born	Louis	2020	T32	Poster I	P.04	1:30 PM	Bressler 1st Floor
Brackett	Arielle	2020	Rad Onc	Oral III	O.19	4:50 PM	Taylor Lecture Hall
Brilliant	Justin	2020	PRISM	Oral II	O.09	2:00 PM	Hosick Lecture Hall
Browne	Kathleen	2019	Independent	Poster II	P.26	2:35 PM	Bressler Mezzanine
Burgoyne	Molly	2020	PRISM	Poster I	P.10	1:30 PM	Bressler Mezzanine
Burval	MaryBrooke	2020	Independent	Poster III	P.37	4:15 PM	Bressler 1st Floor
Chen	Huanwen	2020	Independent	Oral II	O.07	1:30 PM	Hosick Lecture Hall
Chen	Huanwen	2020	Independent	Poster II	P.23	2:35 PM	Bressler 1st Floor
Chen	Huanwen	2020	Independent	Poster III	P.39	4:15 PM	Bressler 1st Floor
Chen	Jane (Annie)	2020	PRISM	Poster II	P.20	2:35 PM	Bressler 1st Floor
Chen	Jane	2019	Independent	Poster I	P.02	Presenter withdrew	
Cheo	Savannah	2020	Independent	Poster III	P.38	4:15 PM	Bressler 1st Floor
Cherng	Hua-Ren	2020	ACMG	Poster I	P.13	1:30 PM	Bressler Mezzanine
Cheung	Helen	2020	PRISM	Poster I	P.05	1:30 PM	Bressler 1st Floor
Choksi	Ankur	2020	Leah Menshouse Springer	Oral II	O.11	2:35 PM	Hosick Lecture Hall
Coghlan	Martha	2020	Independent	Poster II	P.28	2:35 PM	Bressler Mezzanine
Crabill	George	2020	PRISM	Poster II	P.18	2:35 PM	Bressler 1st Floor
Devlin	Stephen	2020	AATS	Oral V	O.31	2:35 PM	Leadership Hall
Diedrich	Aloise	2020	Independent	Poster III	P.44	4:15 PM	Bressler Mezzanine
Durham	Allison	2020	ASH HONORS Award	Poster I	P.06	1:30 PM	Bressler 1st Floor
Engdahl	Ashton	2020	Independent	Poster I	P.03	1:30 PM	Bressler 1st Floor
Fan	Kevin	2020	PRISM	Oral V	O.32	2:50 PM	Leadership Hall
Gao	Shuna	2020	PRISM	Poster III	P.47	4:15 PM	Bressler Mezzanine
Grunnagle	MeiLin	2020	PRISM	Poster I	P.01	1:30 PM	Bressler 1st Floor
Gutierrez	Benjamin	2020	Independent	Poster II	P.25	2:35 PM	Bressler 1st Floor
Hodges	Megan	2020	Independent	Poster I	P.07	1:30 PM	Bressler 1st Floor
Hu	Jiun Yiing	2020	Rad Onc, AOA	Oral II	O.12	2:50 PM	Hosick Lecture Hall
Jolissaint	Josef	2019	Shock Trauma Orthopedic	Oral IV	O.21	3:30 PM	Hosick Lecture Hall
Kaplan	Emma	2020	PRISM	Oral II	O.13	3:05 PM	Hosick Lecture Hall

## Presentation Schedule (Ordered by Name)

Last Name	First Name	Class	Program	Session	PID	Time	Location
Kaslow	Sarah	2018	Independent	Oral IV	O.26	4:50 PM	Hosick Lecture Hall
Kayastha	Darpan	2020	PRISM	Oral V	O.29	2:00 PM	Leadership Hall
Klein	Ashley	2020	PRISM	Poster III	P.45	4:15 PM	Bressler Mezzanine
Kolb	Stephanie	2020	Independent	Poster I	P.11	1:30 PM	Bressler Mezzanine
Kozak	Zofia	2020	PRISM	Oral I	O.04	2:15 PM	Taylor Lecture Hall
Krevitz	Jacqueline	2020	Independent	Poster II	P.32	2:35 PM	Bressler Mezzanine
La	Ashley	2020	PRISM	Oral IV	O.22	3:45 PM	Hosick Lecture Hall
Laps	Alexandra	2020	Independent	Poster III	P.43	4:15 PM	Bressler Mezzanine
Lee Park	Owen	2020	SPORT	Poster III	P.40	4:15 PM	Bressler 1st Floor
Lerner	Megan	2020	Independent	Poster II	P.22	2:35 PM	Bressler 1st Floor
Manglorkar	Richa	2019	PRISM	Poster I	P.14	1:30 PM	Bressler Mezzanine
Mathias	Trevor	2020	MSTP	Oral III	O.14	3:30 PM	Taylor Lecture Hall
Moore	Michelle	2020	Independent	Poster III	P.42	4:15 PM	Bressler 1st Floor
Ong	Sharon	2019	Independent	Poster II	P.31	2:35 PM	Bressler Mezzanine
Park	Jessica	2020	PRISM	Poster III	P.48	4:15 PM	Bressler Mezzanine
Patel	Parth	2020	PRISM	Oral II	O.10	2:15 PM	Hosick Lecture Hall
Patnaik	Anna	2020	PRISM	Oral I	O.02	1:45 PM	Taylor Lecture Hall
Raman	Natasha	2018	Independent	Oral III	O.17	4:15 PM	Taylor Lecture Hall
Rebechi	Melanie	2020	Independent	Oral III	O.16	4:00 PM	Taylor Lecture Hall
Reddi	Ashwin	2020	Independent	Poster I	P.16	1:30 PM	Bressler Mezzanine
Renner	Corinne	2020	PRISM, Fight for Sight	Oral V	O.33	3:05 PM	Leadership Hall
Sallman	Zahur	2020	PRISM	Poster II	P.30	2:35 PM	Bressler Mezzanine
Sanusi	Ololade	2020	Independent	Oral II	O.08	1:45 PM	Hosick Lecture Hall
Saylor	Regina	2018	Independent	Oral IV	O.24	4:15 PM	Hosick Lecture Hall
Seale	Katelyn	2020	PRISM	Oral III	O.15	3:45 PM	Taylor Lecture Hall
Sharma	Amit	2020	PRISM	Oral I	O.05	2:35 PM	Taylor Lecture Hall
Shea	Phelan	2019	Shock Trauma Orthopaedics	Poster III	P.46	4:15 PM	Bressler Mezzanine
Sikorski	Michael	2020	MSTP	Oral V	O.28	1:45 PM	Leadership Hall
Simpson	Nana	2020	PRISM	Oral IV	O.25	4:35 PM	Hosick Lecture Hall
Stevens	Kali	2020	PRISM	Oral IV	O.23	4:00 PM	Hosick Lecture Hall
Tam	Tammie	2020	PRISM	Poster III	P.35	4:15 PM	Bressler 1st Floor
Tanigawa	Makoto	2020	Independent	Poster I	P.15	1:30 PM	Bressler Mezzanine
Theodoru	Andrea	2020	NIDDK	Poster II	P.21	2:35 PM	Bressler 1st Floor
Tracey	Breanna	2020	PRISM	Oral V	O.33	3:05 PM	Leadership Hall
Tran	Katherine	2019	Independent	Poster III	P.36	4:15 PM	Bressler 1st Floor
Uddin	Olivia	2020	PRISM	Oral I	O.03	2:00 PM	Taylor Lecture Hall
Vaidya	Ankur	2020	Rad Onc	Oral III	O.20	5:05 PM	Taylor Lecture Hall
Whalen	Hallie	2020	SPORT	Poster II	P.24	2:35 PM	Bressler 1st Floor
Woodard	Jennifer	2020	Union Memorial Hospital	Oral I	O.01	1:30 PM	Taylor Lecture Hall
Woodard	Jennifer	2020	QIPS Council	Poster III	P.34	4:15 PM	Bressler 1st Floor

## Presentation Schedule (Ordered by Name)

Last Name	First Name	Class	Program	Session	PID	Time	Location
Wu	Yinglun	2020	PRISM	Poster II	P.19	2:35 PM	Bressler 1st Floor
Xie	Vivien	2020	PRISM	Poster II	P.33	2:35 PM	Bressler Mezzanine
Ye	Nancy	2018	Independent	Poster I	P.08	1:30 PM	Bressler 1st Floor
Yoon	Ji Ae	2020	PRISM, IDSA	Oral V	O.30	2:15 PM	Leadership Hall
Zainib	Maliha	2020	Independent	Poster I	P.09	1:30 PM	Bressler 1st Floor

## 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.  
Taylor Lecture Hall

**O.01 1:30 p.m.**

IMPLEMENTATION OF A COORDINATED PLAN FOR CHRONIC OPIOID THERAPY IN THE PRIMARY CARE SETTING. Jennifer Woodard\*, Stephanie Blease<sup>1</sup>, and Kathryn Walker<sup>2</sup>, <sup>1</sup>Division of Health Services Research, Department of Palliative Care, MedStar Health Research Institute and <sup>2</sup>Department of Palliative Care, MedStar Health School of Pharmacy, Baltimore, MD.

**O.02 1:45 p.m.**

THE EFFECTS OF EARLY NICOTINE EXPOSURE ON CORTICOTHALAMIC PATHWAYS. Anna Patnaik\*, Lola Akintola, Charlie Raver, and Asaf Keller, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**O.03 2:00 p.m.**

SEROTONERGIC CIRCUITS IN CHRONIC PAIN. Olivia Uddin\*, Asaf Keller, Alberto Castro, and Charlie Raver, Department of Anatomy and Neurobiology, University of Maryland School of Medicine, Baltimore, MD.

**O.04 2:15 p.m.**

EXPECTANCY AND PERSONALITY AS PREDICTORS OF PLACEBO RESPONSIVENESS: AN ONGOING RCT IN METHADONE-TREATED OPIOID USE DISORDER PATIENTS. Zofia Kozak\*, Annabelle Belcher<sup>1</sup>, Luana Colloca<sup>2</sup>, and Christopher Welsh<sup>1</sup>, <sup>1</sup>Department of Psychiatry and <sup>2</sup>Department of Anesthesiology, University of Maryland School of Nursing, Baltimore, MD.

*Break (2:30– 2:35 p.m.)*

**O.05 2:35 p.m.**

ASSESSING THE EFFICACY OF LEVETIRACETAM POST TBI IN A RAT MODEL. Amit Sharma\*, Marc Simard, and Kaspar Keledjian, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

**O.06 2:50 p.m.**

IMPROVING ADVANCE DIRECTIVE RATES AND ACCESSIBILITY IN AN INTERNAL MEDICINE RESIDENT CLINIC PRACTICE: AN INTER-DISCIPLINARY APPROACH. Brenna Beck\*, Leah Millstein<sup>1</sup>, and Danielle Baek<sup>2</sup>, <sup>1</sup>Division of General Internal Medicine and Pediatrics and <sup>2</sup>Division of Internal Medicine, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

## Oral Presentation Session II

1:30 – 3:20 p.m.  
Hosick Lecture Hall

### **O.07 1:30 p.m.**

AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE IS ASSOCIATED WITH HIGHER PREVALENCE OF LEFT VENTRICULAR HYPERTROPHY AND INCREASED LEFT VENTRICULAR MASS. Huanwen Chen\*, Hong-Zohlman Susie<sup>1</sup>, Terry Watnick<sup>2</sup>, and Stephen Seliger<sup>2</sup>, <sup>1</sup>Division of Cardiovascular Medicine and <sup>2</sup>Division of Nephrology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

### **O.08 1:45 p.m.**

PULSED FOCUSED ULTRASOUND FOR ENHANCING THE DELIVERY OF STEM CELLS IN THE BRAIN. Ololade Sanusi\*, Victor Frenkel<sup>1</sup>, and Pavlos Anastasiadis<sup>2</sup>, <sup>1</sup>Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

### **O.09 2:00 p.m.**

DECELLULARIZED RAT LIVER SCAFFOLDS PROMOTE THE ENGRAFTMENT OF FUNCTIONAL ALLOGENIC NEONATAL HEPATOCYTES INTRODUCED VIA THE BILE DUCT. Justin Brilliant\*, John LaMattina<sup>1</sup>, Wessam Hassanein<sup>2</sup>, and Parth Patel<sup>3</sup>, <sup>1</sup>Division of Transplant, <sup>2</sup>Department of Surgery, <sup>3</sup>University of Maryland School of Medicine, Baltimore, MD.

### **O.10 2:15 p.m.**

RE-ENDOTHELIALIZATION OF DE-ENDOTHELIALIZED RAT LIVERS. Parth Patel\*, John LaMattina<sup>1</sup>, Wessam Hassanein<sup>2</sup>, and Justin Brilliant<sup>3</sup>, <sup>1</sup>Division of Transplant, <sup>2</sup>Department of Surgery, <sup>3</sup>University of Maryland School of Medicine, Baltimore, MD.

*Break (2:30 – 2:35 p.m.)*

### **O.11 2:35 p.m.**

DEVELOPMENT OF A NOVEL IMAGE-GUIDED DRUG-DELIVERY PLATFORM FOR DIFFUSE INTRINSIC PONTINE GLIOMA. Ankur Choksi\*, Xiaohui Zhang, and Yongjian Liu, Division of Radiological Sciences, Mallinckrodt Institute of Radiology, Washington University School of Medicine, St. Louis, MO.

### **O.12 2:50 p.m.**

FEASIBILITY AND VALIDITY OF AUTO-SEGMENTATION OF SUBCORTICAL STRUCTURES IN PATIENTS WITH BRAIN LESIONS. Jiun Yiing Hu\*, Tejan Diwanji, Baoshe Zhang, and Pranshu Mohindra, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

### **O.13 3:05 p.m.**

AGE- AND SEX- ASSOCIATED DIFFERENCES IN HUMAN MOTOR CORTEX NEUROPHYSIOLOGICAL LOCALIZATION. Emma Kaplan\*, Elsa Ermer, George Wittenberg, and Michael Dimyan, Division of Rehabilitation, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

*Break (3:20 – 3:30 p.m.)*

**Oral Presentation Session III**

3:30 – 5:20 p.m.

Taylor Lecture Hall

**O.14 3:30 p.m.**

DYNAMICS OF BREAST CANCER CELL CLUSTERING. Trevor Mathias\* and Stuart Martin, Division of Oncology, Department of Physiology, University of Maryland School of Medicine, Baltimore, MD.

**O.15 3:45 p.m.**

PC-CELL DERIVED GROWTH FACTOR (GP88) AS A PROGNOSTIC BIOMARKER FOR SURVIVAL IN METASTATIC BREAST CANCER PATIENTS. Katelyn Seale\*, Paula Rosenblatt<sup>1</sup>, Nancy Tait<sup>2</sup>, Ginette Serrero<sup>3</sup>, and Katherine Tkaczuk<sup>1</sup>, <sup>1</sup>Division of Hematology and Oncology, Department of Medicine, University of Maryland School of Medicine and <sup>2</sup>University of Maryland Medical Center, Baltimore, MD and <sup>3</sup>A&G Pharmaceutical, Inc., Columbia, MD.

**O.16 4:00 p.m.**

FLT3 ITD AML OUTCOMES ARE IMPACTED BY EXPOSURE TO CYTARABINE BASED CONSOLIDATION, TKI THERAPY, AND PRESENCE OF MRD PRIOR TO TRANSPLANT. Melanie Rebechi\* and Keith Pratz, Division of Hematologic Malignancies, Department of Oncology, Johns Hopkins Medicine School of Medicine, Baltimore, MD.

**O.17 4:15 p.m.**

TARGETING CENTROSOMAL CLUSTERING IN COMBINATION WITH RADIATION THERAPY AS A NOVEL TREATMENT FOR LUNG CANCER. Natasha Raman\*, Ghali Lemtiri-Chlich<sup>1</sup>, Katriona Nugent<sup>1</sup>, Matthew Ballew<sup>1</sup>, Andrew Holland<sup>2</sup>, and Phuoc Tran<sup>3</sup>, <sup>1</sup>Division of Molecular Radiation Sciences, <sup>3</sup>Department of Radiation Oncology and <sup>2</sup>Department of Biochemistry and Molecular Biology, Johns Hopkins Medicine School of Medicine, Baltimore, MD.

*Break (4:30 – 4:35 p.m.)*

**O.18 4:35 p.m.**

USING METABOLIC PATHWAYS TO IMPROVE DIAGNOSIS AND RISK-STRATIFICATION OF PROSTATE CANCER. Aymen Alqazzaz\*, Dexue Fu<sup>1</sup>, Arman Karimi<sup>2</sup>, Gustavo Ferreira<sup>2</sup>, Mary McKenna<sup>2</sup>, and M. Minhaj Siddiqui<sup>1</sup>, <sup>1</sup>Division of Urology, Department of Surgery and <sup>2</sup>Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**O.19 4:50 p.m.**

ROBUSTNESS OF DOSIMETRIC PLANNING IN ACCOUNTING FOR RECTAL VOLUME UNCERTAINTY DURING PROTON RADIATION OF THE PROSTATE. Arielle Brackett\*, Adeel Kaiser, and Mingyao Zhu, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

**O.20 5:05 p.m.**

OUTCOMES AND PATTERNS OF FAILURE FOLLOWING RADIOTHERAPY IN THYMIC NEOPLASMS. Ankur Vaidya\* and Charles Simone, Proton Center, Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

**Oral Presentation Session IV**

3:30 – 5:20 p.m.

Hosick Lecture Hall

**O.21 3:30 p.m.**

NURD 2.0: PREDICTION OF TIBIAL NONUNION AFTER IM NAIL FIXATION AT ANY TIME WITHIN 3 MONTHS OF INJURY. Josef Jolissaint\*, Kevin O'Halloran<sup>1</sup>, Anthony Carlini<sup>2</sup>, Keir Ross<sup>3</sup>, Renan C. Castillo<sup>2</sup>, and Robert V. O'Toole<sup>3</sup>,<sup>1</sup>Department of Orthopaedics, Bay Medical Sacred Heart, Panama City, FL and <sup>2</sup>Johns Hopkins University School of Bloomberg School of Public Health and <sup>3</sup>R. Adams Cowley Shock Trauma Center, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.22 3:45 p.m.**

PREOPERATIVE FACTORS ASSOCIATED WITH DEPRESSION OR ANXIETY IN KNEE SURGERY PATIENTS. Ashley La\*, Julio Jauregui, Vidushan Nadarajah, Shaun Medina, Michael Smuda, and R. Frank Henn, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.23 4:00 p.m.**

PREOPERATIVE PATIENT EXPECTATIONS OF KNEE SURGERY. Kali Stevens\*, Julio Jauregui<sup>1</sup>, Vidushan Nadarajah<sup>1</sup>, Shaun Medina<sup>1</sup>, Michael Smuda<sup>1</sup>, and R. Frank Henn III<sup>2</sup>, <sup>2</sup>Division of Sports Medicine, <sup>1</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**O.24 4:15 p.m.**

BENEFITS OF TELE-SURGERY CLINICS WITHIN THE VA HEALTH CARE SYSTEM. Regina Saylor\*, Preeti John<sup>1</sup>, and Valsamma Punnoose<sup>2</sup>, <sup>1</sup>Division of General Surgery, Department of Surgery, University of Maryland School of Medicine and <sup>2</sup>Division of General Surgery, Department of Surgery, VA Medical Center School of Nursing, Baltimore, MD.

*Break (4:30 – 4:35 p.m.)*

**O.25 4:35 p.m.**

PSEUDOANEURYSM IN SPLENIC INJURIES. Nana Simpson\*, Margaret Lauerman<sup>1</sup>, and Kathirkamanthan Shanmuganathan<sup>2</sup>, <sup>1</sup>Division of Trauma and Critical Care, Department of Surgery and <sup>2</sup>Division of Trauma, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.26 4:50 p.m.**

HEALTHCARE REFORM IN MARYLAND: IMPACT ON VENTRAL HERNIA REPAIR. Sarah Kaslow\*, Gina Adrales<sup>1</sup>, Miloslaw Stem<sup>2</sup>, and Joseph Canner<sup>3</sup>, <sup>1</sup>Division of Minimally Invasive Surgery, <sup>2</sup>Department of Surgery, Johns Hopkins School of Medicine and <sup>3</sup>Johns Hopkins Surgery Center for Outcomes Research, Baltimore, MD.

**Oral Presentation Session V**

1:30 – 3:20 p.m.

Taylor Lecture Hall

**O.27 1:30 p.m.**

PREDICTORS OF POST-DISCHARGE OUTCOMES AND CARE SEEKING BEHAVIORS AMONG CHILDREN WITH ACUTE INFECTIOUS ILLNESS IN SOUTHWESTERN UGANDA. Jasmine Blake\*, Matthew Wiens<sup>1</sup>, Aliza Gellman-Chomsky<sup>2</sup>, and Peter Moschovis<sup>3</sup>, <sup>1</sup>Department of Epidemiology and Public Health, University of British Columbia School of Population and Public Health, Vancouver, Canada and <sup>2</sup>Division of Pediatric Global Health, Department of Pediatrics, Massachusetts General Hospital for Children and <sup>3</sup>Division of Pediatric Global Health, Department of Pediatrics, Massachusetts General Hospital, Boston, MA.

**O.28 1:45 p.m.**

WEB-BASED DATA CAPTURE FOR A PROSPECTIVE MULTI-SITE STUDY OF CHRONIC TYPHOID CARRIER PREVALENCE IN CHOLECYSTECTOMY PATIENTS IN SANTIAGO, CHILE. Michael Sikorski\*, Rosanna Lagos<sup>1</sup>, and Myron Levine<sup>2</sup>, <sup>1</sup>Department of Pediatrics, Center for Vaccine Development - Chile, Santiago, Chile and <sup>2</sup>Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.29 2:00 p.m.**

CROSS-COMMUNICATION BETWEEN LEUKOCYTES TRIGGERS DIFFERENTIAL IMMUNE RESPONSES AGAINST *SALMONELLA ENTERICA* SEROVARS TYPHI AND PARATYPHI. Darpan Kayastha\*, Rosangela Mezghanni, Haiyan Chen, and Marcelo Sztejn, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD.

**O.30 2:15 p.m.**

IMPACT OF NUCLEOS(T)IDE ANALOGUES ON T CELL FUNCTIONS IN CHRONIC HEPATITIS B SUBJECTS. Ji Ae Yoon\*, Shyamasundaran Kottilil, and Lydia Tang, Division of Infectious Diseases, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

*Break (2:30– 2:35 p.m.)*

**O.31 2:35 p.m.**

EX VIVO LUNG XENOTRANSPLANTATION: THE ROLE OF E- AND P-SELECTIN RECEPTOR ANTAGONISM ON LEUCOCYTE AND PLATELET ACTIVATION AND THROMBOSIS. Stephen Devlin\*, Richard Pierson III<sup>1</sup>, Anges Azimzadeh<sup>2</sup>, Lars Burdorf<sup>1</sup>, and Arielle Cimeno<sup>2</sup>, <sup>1</sup>Division of Cardiac Surgery, <sup>2</sup>Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.



**O.32 2:50 p.m.**

SPECTRAL OPTIMIZATION OF PORTAL VENOUS PHASE VIRTUAL MONOCHROMATIC DUAL ENERGY CT AND COMPARISON WITH ARTERIAL PHASE SINGLE ENERGY CT ANGIOGRAPHY FOR BLEEDING PELVIC FRACTURES. Kevin Fan\* and David Dreizin, Division of Trauma Radiology, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

**O.33 3:05 p.m.**

OBSERVATION OF ERYTHROCYTE DYNAMICS IN THE OCULAR MICROVASCULATURE. Corinne Renner\*, Breanna Tracey\*, and Osamah Saeedi, Department of Ophthalmology and Visual Sciences, University of Maryland School of Medicine, Baltimore, MD.

## Poster Presentation Schedule

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

### Poster Presentation Session I

1:30 – 2:30 p.m.

Bressler First Floor

**P.02 1:30 p.m.** (Presenter withdrew from presenting)  
COMPARISON OF AUTOINJECTOR AND IMPROVED INTRANASAL DELIVERY SYSTEM FOR ADMINISTRATION OF NALOXONE. Jane Chen\*, Thomas Del Ninno<sup>1</sup>, Michelle Romeo<sup>2</sup>, Jackie Zhang<sup>2</sup>, and R. Gentry Wilkerson<sup>1</sup>, <sup>1</sup>Department of Emergency Medicine, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.03 1:30 p.m.**  
ANESTHETIC REQUIREMENTS OF PATIENTS UNDERGOING RESUSCITATIVE ENDOVASCULAR BALLOON OCCLUSION OF THE AORTA (REBOA). Ashton Engdahl\*, Philip Wasicek<sup>1</sup>, Samuel Galvagno<sup>2</sup>, Megan Anders<sup>3</sup>, and Maureen McCunn<sup>2</sup>, <sup>1</sup>Department of Surgery and <sup>2</sup>Division of Trauma, <sup>3</sup>Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

**P.04 1:30 p.m.**  
THERAPEUTIC POLYMERIC NANOPARTICLES FOR TAILORED GENE EXPRESSION AND IMPROVED WOUND HEALING. Louis Born\*, Frank Lay<sup>1</sup>, Eddy Salgado<sup>2</sup>, Zahra Alikhassy<sup>1</sup>, Steven Jay<sup>3</sup>, and John Harmon<sup>1</sup>, <sup>1</sup>Department of Surgery, Johns Hopkins School of Medicine, Baltimore, MD, and <sup>2</sup>Department of Materials Science and Engineering and <sup>3</sup>Department of Bioengineering, University of Maryland College Park, College Park, MD.

**P.05 1:30 p.m.**  
HIV AND CANCER OUTCOMES AMONG HIV-INFECTED PATIENTS DIAGNOSED WITH CANCER AND FOLLOWED IN A MULTIDISCIPLINARY INFECTIOUS DISEASE/ CANCER CLINIC. Helen Cheung\* and David Riedel, Division of Infectious Disease, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.06 1:30 p.m.**  
ARTESUNATE SYNERGIZES WITH OTHER BCL-2 FAMILY INHIBITORS IN AML AND ALL CELL LINES. Allison Durham\*, Blake Moses<sup>1</sup>, and Curt Civin<sup>2</sup>, <sup>1</sup> Center for Stem Cell Biology and Regenerative Medicine, Department of Medicine, University of Maryland School of Medicine, and <sup>2</sup>Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.07 1:30 p.m.**  
CELL CYCLE REGULATION BY PPP1R1A IN EWING SARCOMA CELLS. Megan Hodges\*, Mitchell Cairo, and Wen Luo, Division of Hematology and Oncology, Department of Pediatrics, New York Medical College School of Medicine, Hawthorne, NY.

**P.08 1:30 p.m.**

LEARNING CURVE FOR MAGNETIC RESONANCE IMAGING/ULTRASOUND-FUSION BIOPSY IN DETECTING PROSTATE CANCER USING CUSUM ANALYSIS. Nancy Ye\*, Mohammad Siddiqui<sup>1</sup>, Jasleen Chopra<sup>2</sup>, Michael Naslund<sup>1</sup>, Jade Wong-You-Cheong<sup>2</sup>, and Amelia Wnorowski<sup>2</sup>, <sup>1</sup>Division of Urology, Department of Surgery and <sup>2</sup>Department of Radiology, University of Maryland School of Medicine, Baltimore, MD.

**P.09 1:30 p.m.**

MULTICENTER REPORT ON TOXICITIES OF CONCURRENT NIVOLUMAB AND RADIATION THERAPY. Maliha Zanib\*, Pranshu Mohindra<sup>1</sup>, Zeljko Vujaskovic<sup>2</sup>, Charles Simone<sup>1</sup>, and Neha Amin<sup>1</sup>, <sup>2</sup>Division of Translational Radiation Sciences, <sup>1</sup>Department of Radiation Oncology, University of Maryland School of Medicine, Baltimore, MD.

**P.10 1:30 p.m.**

PEDIATRIC ECG SCREENING FOR LEFT VENTRICULAR HYPERTROPHY. Molly Burgoyne\* and Geoffrey Rosenthal, Division of Pediatric Cardiology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.11 1:30 p.m.**

COMPARISON OF PULMONARY ARTERY CATHETER (PAC)-DERIVED CARDIAC OUTPUT AND ECHOCARDIOGRAPHICALLY-DERIVED CARDIAC OUTPUT. Stephanie Kolb\*, Peter Olivieri<sup>1</sup>, Rajan Patel<sup>2</sup>, Thomas Scalea<sup>3</sup>, and Sarah Murthi<sup>4</sup>, <sup>1</sup>Division of Pulmonary and Critical Care, Department of Medicine, <sup>2</sup>Department of Anesthesiology, and <sup>3</sup>Division of Trauma Surgery and <sup>4</sup>Division of Surgical Critical Care, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**P.12 1:30 p.m.**

SECONDHAND SMOKE IS LINKED TO HIGHER RISK OF NON-CARDIOVASCULAR MORTALITY BUT NOT OF CARDIOVASCULAR MORTALITY IN COMMUNITY-DWELLING OLDER ADULTS: FINDINGS FROM CARDIOVASCULAR HEALTH STUDY (CHS). Amiya Ahmed\*, Evangelos Kanonidis<sup>1</sup>, Apostolos Tsimploulis<sup>2</sup>, Poonam Bhyan<sup>2</sup>, Richard Allman<sup>3</sup>, and Ali Ahmed<sup>4</sup>, <sup>1</sup>Department of Precision Medicine, The Roslin Institute, University of Edinburgh, Edinburgh, United Kingdom and <sup>2</sup>Department of Medicine, Georgetown University Hospital and Washington Hospital Center, <sup>3</sup>Office of Geriatrics and Extended Care Services, U.S. Department of Veterans Affairs, and <sup>4</sup>Department of Medicine, Veterans Affairs Medical Center, Washington, DC.

**P.13 1:30 p.m.**

PHARMACOGENETICS OF SGLT2 INHIBITORS: IDENTIFYING GENETIC VARIANTS ASSOCIATED WITH DRUG EFFECTS. Hua-Ren Cherng\*, Amber Beitelshes, and Simeon Taylor, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.14 1:30 p.m.**

USE OF DEXAMETHASONE FOR PERSISTENT PERIHEMATOMAL EDEMA IN PRIMARY INTRACEREBRAL HEMORRHAGE. Richa Manglorkar\* and Wendy Wan-Tsu Chang, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.15 1:30 p.m.**

EVALUATING THE USE OF THE OTTAWA SAH HEMORRHAGE RULE TO MINIMIZE MISSED DIAGNOSES. Makoto Tanigawa\* and Wan-Tsu Chang, Division of Neurocritical Care, Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.16 1:30 p.m.**

RACE/ETHNIC VARIATIONS OF PERIHEMATOMAL EDEMA AFTER ICH AND IMPACT ON OUTCOME. Ashwin Reddi\* and Gunjan Parikh, Division of Critical Care, Department of Neurology, 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.

Bressler First Floor

**P.17 2:35 p.m.**

JNK AS A BIOMARKER OF RELAPSE AND RESPONSE TO TREATMENT WITH GLATIRAMER ACETATE IN MULTIPLE SCLEROSIS. Freidrich Anselmo\*, Alexandru Tatomir, Jonathan Ciriello, and Horea Rus, Department of Neurology, University of Maryland School of Medicine, Baltimore, MD.

**P.18 2:35 p.m.**

EFFECTS OF CD28/B7 COSTIMULATION BLOCKADE ON THE PD-1/PD-L1 AXIS IN *MACACA FASCICULARIS* WITH CARDIAC ALLOGRAFTS. George Crabill\*, Natalie O'Neill, Zhang Tianshu, Richard Pierson III, and Agnes Azimzadeh, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**P.19 2:35 p.m.**

EFFECTS OF 1-BENZYLIMIDAZOLE AND GENE MODIFICATIONS ON EICOSANOID AND LEUKOTRIENE SYNTHESIS IN XENOGRAFT LUNG PERFUSION AND TRANSPLANTATION MODELS. Yinglun Wu\*, Richard Pierson, Agnes Azimzadeh, and Lars Burdorf, Department of Surgery, University of Maryland School of Medicine, Baltimore, MD.

**P.20 2:35 p.m.**

ELUCIDATING THE ROLE OF TXNIP IN MICROGLIAL ACTIVATION. Jane Chen\*, Brian Polster, Niraj Bhatt, and Sausan Jaber, Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

**P.21 2:35 p.m.**

THE C-KIT RECEPTOR; A STEM CELL MARKER EXPRESSED IN KIDNEY COLLECTING DUCT INTERCALATED CELLS. Andrea Theodoru\*, Maria Merkulova, Teodor Paunescu, and Anil Nair, Massachusetts General Hospital, Boston, MA.

**P.22 2:35 p.m.**

USE OF MESENCHYMAL STEM CELLS TO TREAT MUSCLE STRAIN INJURIES. Megan Lerner\*, Richard M. Lovering, Shama R. Iyer, Joseph P. Stains, Craig H. Bennett, and R. Frank Henn III, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**P.23 2:35 p.m.**

CHARACTERIZING THE EFFECTS OF CELL PASSAGING ON TRANSPLANTING HUMAN NEURAL CREST STEM CELLS FOR PERIPHERAL NERVE INJURY REPAIR. Huanwen Chen\*, Jian Du, Kailiang Zhou, and Xiaofeng Jia, Department of Neurosurgery, University of Maryland School of Medicine, Baltimore, MD.

**P.24 2:35 p.m.**

PANCREATIC ISLET CELL INTERACTION WITH EXOCRINE TISSUE: AN *IN VITRO* CULTURE. Hallie Whalen\*, Amanda Jones<sup>1</sup>, Timothy Hostelley<sup>2</sup>, Jessica Dunleavey<sup>2</sup>, Norann Zaghoul<sup>2</sup>, and Magali Fontaine<sup>1</sup>, <sup>1</sup>Department of Pathology and <sup>2</sup>Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.25 2:35 p.m.**

NOVEL APPROACHES TO PREDICTION OF CARDIAC ELECTROPHYSIOLOGICAL TISSUE PROPERTIES FROM PET PERFUSION AND VIABILITY MEASUREMENTS. Benjamin Gutierrez\* and Mark Smith, Department of Diagnostic Radiology and Nuclear Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.26 2:35 p.m.**

THE RACIAL/ETHNIC DIFFERENCES IN THE ASSOCIATION BETWEEN OBESITY AND GESTATIONAL DIABETES. Kathleen Browne\* and Ruofan Yao, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**P.27 2:35 p.m.**

OPTIMAL DELIVERY OF FETUSES WITH CONGENITAL HEART DEFECTS. Breanne Bears\*, Shifa Turan, Chris Harman, and Turan Ozhan, Division of Maternal Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**P.28 2:35 p.m.**

INDUCTION WITH INTRACERVICAL FOLEY BALLOON INCREASES THE RISK OF PRIMARY CESAREAN DELIVERY IN NULLIPAROUS WOMEN. Martha Coghlan\*, Julie Hurvitz<sup>1</sup>, Kristin Atkins<sup>2</sup>, Ruofan Yao<sup>2</sup>, Ozhan Turan<sup>2</sup>, and Sarah Crimmins<sup>2</sup>, <sup>1</sup>Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland Medical Center and <sup>2</sup>Division of Maternal-Fetal Medicine, Department of Obstetrics, Gynecology and Reproductive Sciences, University of Maryland School of Medicine, Baltimore, MD.

**P.29 2:35 p.m.**

EXAMINING HOW TEMPERAMENT RELATES TO BMI AMONG TODDLERS OF LOW-INCOME MOTHERS. Chelsea Alvarado\*, Bridget Armstrong, and Maureen Black, Division of Growth and Nutrition, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.30 2:35 p.m.**

ANTERIOR SEGMENT STRUCTURAL VARIANTS IN PEDIATRIC PATIENTS WITH DOWN SYNDROME. Zahur Sallman\*, Osamah Saeedi<sup>1</sup>, Gianna Stoleru<sup>2</sup>, Mona Kaleem<sup>1</sup>, and Janet Alexander<sup>1</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.31 2:35 p.m.**

COMPARISON OF PHACOEMULSIFICATION ENERGY USED IN FEMTOSECOND LASER ASSISTED CATARACT SURGERY (FLACS) AND CONVENTIONAL PHACOEMULSIFICATION. Sharon Ong\*, Osamah Saeedi<sup>1</sup>, Syed Karim<sup>1</sup>, and Luke Chang<sup>2</sup>, <sup>1</sup>Department of Ophthalmology and Visual Sciences, <sup>2</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.32 2:35 p.m.**

QUALITY INITIATIVE PROJECT TO ASSESS COMPLIANCE WITH NEONATAL PACKED RED BLOOD CELL TRANSFUSION GUIDELINES POST-IMPLEMENTATION IN THE NEWBORN INTENSIVE CARE UNIT. Jacqueline Krevitz\*, Sripriya Sundararajan<sup>1</sup>, and Alexandre D. Medina<sup>2</sup>, <sup>1</sup> Neonatal Intensive Care Unit, <sup>2</sup>Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.33 2:35 p.m.**

ASSOCIATION OF RED BLOOD CELL TRANSFUSION AND SEVERITY OF CHRONIC LUNG DISEASE OF PREMATURITY IN VERY LOW BIRTHWEIGHT INFANTS. Vivien Xie\*, Alexandre Medina de Jesus<sup>1</sup>, Kelly Tracey<sup>2</sup>, and Sripriya Sundararajan<sup>2</sup>, <sup>2</sup>Division of Neonatology, <sup>1</sup>Department of Pediatrics, 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.

Bressler First Floor

**P.34 4:15 p.m.**

BEYOND ENTRY AND EXIT: INFECTION PREVENTION AT THE BEDSIDE. Jennifer Woodard\*, Surbhi Leekha<sup>1</sup>, Sarah Jackson<sup>2</sup>, and Kerri Thom<sup>1</sup>, <sup>1</sup>Department of Epidemiology and Public Health, University of Maryland School of Medicine and <sup>2</sup>Department of Epidemiology and Public Health, University of Maryland Graduate School, Baltimore, MD.

**P.35 4:15 p.m.**

SICKLE CELL PATIENT EDUCATION: ASSESSMENT OF THE EMMI ELECTRONIC TEACHING MODULE. Tammie Tam\*, Lewis Hsu<sup>1</sup>, and Jennie Law<sup>2</sup>, <sup>1</sup>Division of Hematology and Oncology, Department of Pediatrics, University of Illinois at Chicago School of Medicine, Chicago, IL and <sup>2</sup>Division of Hematology and Oncology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.36 4:15 p.m.**

EFFECT OF GUIDELINE IMPLEMENTATION ON THE CARE OF PATIENTS WITH SICKLE CELL DISEASE VASO-OCCLUSIVE CRISIS. Katherine Tran\*, Thomas del Ninno<sup>1</sup>, Maria R Baer<sup>2</sup>, Jennie Law<sup>3</sup>, and Gentry Wilkerson<sup>4</sup>, <sup>1</sup>Department of Emergency Medicine, University of Maryland Medical Center and <sup>2</sup>Department of Hematologic Malignancies, <sup>3</sup>Department of Hematology and Medical Oncology, and <sup>4</sup>Department of Emergency Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.37 4:15 p.m.**

INCIDENCE OF INFANT CAR SEAT CHALLENGE FAILURE AMONG INFANTS WHO WERE NOT PRETERM OR LOW BIRTH WEIGHT. Katherine Billings\*, MaryBrooke Burval\*, and Natalie Davis, Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.38 4:15 p.m.**

INTERVENTIONS AFTER FAILURE OF THE INFANT CAR SEAT CHALLENGE. Savannah Cheo\* and Natalie Davis, Division of Neonatology, Department of Pediatrics, University of Maryland School of Medicine, Baltimore, MD.

**P.39 4:15 p.m.**

EFFECTS OF LONG-TERM CAFFEINE CONSUMPTION ON AUTOSOMAL DOMINANT POLYCYSTIC KIDNEY DISEASE SEVERITY. Huanwen Chen\*, Terry Watnick, and Stephen Seliger, Division of Nephrology, Department of Medicine, University of Maryland School of Medicine, Baltimore, MD.

**P.40 4:15 p.m.**

GENDER DIFFERENCES IN THE FUNCTIONAL RECOVERY TRAJECTORY POST HIP-FRACTURE AND ITS VARIABILITY BASED ON PATIENT BMI AT THE TIME OF INJURY. Owen Lee Park\*, Denise Orwig, Erik Barr, and Jay Magaziner, Department of Epidemiology and Public Health, University of Maryland School of Medicine, Baltimore, MD.

**P.41 4:15 p.m.**

ADMISSION HYPERGLYCEMIA AS A RISK FACTOR FOR SURGICAL SITE INFECTION IN ORTHOPAEDIC TRAUMA. Braden Anderson\* and Justin Richards, Division of Trauma Anesthesiology, Department of Anesthesiology, University of Maryland School of Medicine, Baltimore, MD.

**P.42 4:15 p.m.**

MAGNETIC RESONANCE IMAGING CHARACTERIZATION AND CLINICAL OUTCOMES AFTER CARTIFORM ALLOGRAFT TRANSPLANTATION AS A PRIMARY REPARATIVE TREATMENT FOR KNEE CARTILAGE INJURIES. Michelle Moore\*, Craig Bennett<sup>1</sup>, Vidushan Nadarajah<sup>2</sup>, and Ralph F. Henn III<sup>2</sup>, <sup>1</sup>Division of Sports Medicine, <sup>2</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**P.43 4:15 p.m.**

ESTABLISHMENT OF NORMAL RANGES OF UPPER EXTREMITY LENGTH AND CIRCUMFERENCE IN THE PEDIATRIC POPULATION. Alexandra Laps\*, Tyler Edmond<sup>1</sup>, and Joshua Abzug<sup>2</sup>, <sup>2</sup>Division of Pediatrics, Department of Orthopaedics, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.44 4:15 p.m.**

CLINICAL EVALUATION OF A MODIFIED TECHNIQUE FOR ANTERIOR CRUCIATE RECONSTRUCTION IN SKELETALLY IMMATURE YOUTHS. Aloise Diedrich\*, Craig H. Bennett, Vidushan Nadarajah, Ian Bussey, and Raplh F. Henn, III, Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**P.45 4:15 p.m.**

INVESTIGATION OF ROTATOR CUFF FATTY INFILTRATION IN A RABBIT INJURY MODEL. Ashley Klein\*, Katherine Mistretta<sup>1</sup>, Jim Lai<sup>2</sup>, Ana Valenica<sup>2</sup>, and Mohit Gilotra<sup>2</sup>, <sup>2</sup>Department of Orthopaedics, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.46 4:15 p.m.**

WOUND SURFACE AREA AS A RISK FACTOR FOR FLAP COMPLICATIONS AMONG PATIENTS WITH OPEN FRACTURES. Phelan Shea\*, Sheila Sprague<sup>1</sup>, Mohit Bhandari<sup>2</sup>, Brad Petrisor<sup>3</sup>, Kyle Jeray<sup>4</sup>, and Raymond Pensy<sup>5</sup>, <sup>1</sup>Department of Health Research Methods, Evidence and Impact, McMaster University and <sup>2</sup>Division of Orthopaedic Surgery, Department of Surgery and <sup>3</sup>Division of Orthopaedic Surgery, Department of Surgery, McMaster University School of Medicine, Hamilton, Ontario, Canada, <sup>4</sup>Department of Orthopaedics, Greenville Health System, Greenville, SC, and <sup>5</sup>Department of Orthopaedics, University of Maryland School of Medicine, Baltimore, MD.

**P.47 4:15 p.m.**

CORRELATING PERI-ICTAL MOOD SCORES WITH HIPPOCAMPAL VOLUMES IN PATIENTS WITH EPILEPSY. Shuna Gao\*, Kaitlin Jeffries<sup>1</sup>, Erin Lanzo<sup>1</sup>, Kathryn Grimes<sup>1</sup>, Scott Thompson<sup>2</sup>, and Jennifer Hopp<sup>3</sup>, <sup>2</sup>Department of Physiology and <sup>3</sup>Division of Epilepsy, Department of Neurology, <sup>1</sup>University of Maryland School of Medicine, Baltimore, MD.

**P.48 4:15 p.m.**

QUALITY OF CARE FOR PATIENTS WITH TRANSIENT ISCHEMIC ATTACKS AT THE UNIVERSITY OF MARYLAND MEDICAL CENTER: ARE WE DOING BETTER? Jessica Park\*, Carolyn Cronin, and Michael Phipps, Division of Stroke, Department of Neurology University of Maryland School of Medicine, Baltimore, MD.

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