



What's the Buzz?

MARCH 2020 VOL.22 NO.3

SELF-REPORTED NEWS from the SCHOOL OF MEDICINE COMMUNITY

Presentations, Events, Lectures & Workshops

Kudos to our colleagues who are experts in their fields and give their all to represent the School of Medicine!



Katharine Bisordi, MS, MGC, CGC

► **Katharine Bisordi, MS, MGC, CGC**, Instructor, Department of Pediatrics, presented a poster at the 2019 NSGC Annual Education Conference, held in Salt Lake City, UT, in November 2019. The topic of her presentation was “Training Program Development and Clinical Continual Quality Improvement: A Telegenetics Success Story.” In addition, Dr. Bisordi, gave a presentation at the UM Shore Regional Health Cancer Center about genetics and hereditary cancer and was featured in an article in the *Star Democrat*.

► **France Carrier, PhD**, Professor, Department of Radiation Oncology, gave an invited presentation, titled “Exploiting Cancer Cells’ Functional Dependence and Vulnerabilities to Develop New Anticancer Strategies,” at the MD Anderson Comprehensive Cancer Center, held in Houston, Tex., on January 28, 2020.



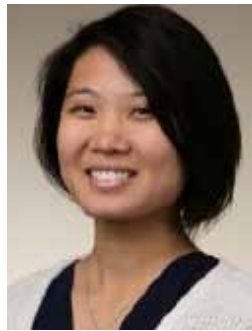
France Carrier, PhD

► **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, presented “The Safe Environment for Every Kid (SEEK) Model: A Role for the Health Sector in Preventing Child Abuse and Neglect” at the Haruv Institute at the Hebrew University, Jerusalem, Israel in December 2019.



Howard Dubowitz, MB, ChB, MS, FAAP

► **Sarah Dubbs, MD**, Assistant Professor, Department of Emergency Medicine, was featured in the January 22, 2020, episode, “Critical Care of Cancer Therapy Toxicities,” of the twice-monthly podcast, *Critical Care Perspectives in Emergency Medicine*.



Sarah Dubbs, MD

► **Ana Lia Graciano, MD, FAAP, FCCM**, Associate Professor, Department of Pediatrics, was an invited speaker at the 15th Congress of the Latin America Society of Pediatric Intensive Care, a bilingual conference held in Houston, Tex., November 7–10, 2019, in conjunction with the 26th Pediatric Critical Care Colloquium. She was invited as a US ambassador at the Latin America Society for Pediatric Intensive Care Assembly which aimed to promote and engage international collaboration. In addition, Dr. Graciano participated as invited faculty and US liaison in the XIII Panamerican and Iberian Congress of Critical and Intensive Care and the 49th Society of Critical Care Medicine International Congress held in Orlando, Fla., February 16–19, 2020.



Michael Grasso, MD, PhD, FACP

► **Michael Grasso, MD, PhD, FACP**, Assistant Professor, Department of Emergency Medicine, hosted an online talk on February 11, 2020, about using CRISP (Chesapeake Regional Information System for our Patients, Maryland’s health information exchange) for clinical decision support activities, including prescription drug monitoring and overdose notifications.

► **Charles Hong, MD, PhD**, The Dr. Melvin Sharoky Professor of Medicine and Director of Cardiovascular Research, was included in a panel discussion with **Dean E. Albert Reece**,



Charles Hong, MD, PhD

MD, PhD, MBA, on “Confronting CRISPR: Scientific, Ethical, Legal and Social Issues on the Path Forward,” on January 30, 2020, held at the University of Maryland, Baltimore SMC Campus Center.



Javed Mahmood, PhD

► **Javed Mahmood, PhD**, Assistant Professor, Department of Radiation Oncology, was the Cancer Research Grand Rounds speaker at the Henry Ford Cancer Center, Detroit, Mich., with a talk titled “Cancer Therapy or Cancer: Who is the Winner?” on January 24, 2020.

► **Margaret McCarthy, PhD**, The James and Carolyn Frenkil Dean’s Professor and Chair, Department of Pharmacology, presented a seminar titled, “Immune Origins of Sex Differences in the Brain” at Stanford University, Stanford, Calif., as part of their Immunology Seminar Series on February 11, 2020.



Margaret McCarthy, PhD

► **Ryan Spangler, MD**, Clinical Assistant Professor, Department of Emergency Medicine, directed a new multisystem course, a School of Medicine interdepartmental collaboration, in February 2020. More than a dozen other faculty members from the Department of Emergency Medicine also participated in teaching the three-day course:

- Associate Professors **Brian Euerle, MD, FACEP, RDMS**, and **Joseph Martinez, MD**
- Assistant Professors **Michael Billet, MD, WanTsu Wendy Chang, MD, Daa'iyah Cooper, MD, Ashley Crimmins, MD, Dan Gingold, MD, MPH, Sara Manning, MD, Alexis Salerno, MD, Kinjal Sethuraman, MD, MPH, Sarah Sommerkamp, MD, Semhar Tewelde, MD, George Willis, MD**, and **Andy Windsor, MD**
- Instructor **Afrah Abdul Wahid Ali, MBBS**
- Clinical Instructor **Kevin Flanagan, DO**



Ryan Spangler, MD



Emerson Wickwire, PhD

► **Emerson Wickwire, PhD**, Associate Professor of Psychiatry and Medicine, presented on February 5, 2020 at the invitation-only DOD Sleep Workshop in Arlington, Va. The title of his presentation was “On the Road to Enhanced Battlefield Performance: Integrated Tele-Sleep Mobile Platform.”

► **Michael Winters, MD**, Professor, Department of Emergency Medicine, was among the discussants in the twice-monthly podcast, *Critical Care Perspectives in Emergency Medicine*, episodes: “Critical Care of Cancer Therapy Toxicities,” published January 22, 2020 and “Identifying and Treating EVALI [E-cigarette or Vaping Product Use-Associated Lung Injury],” published February 4, 2020.



Michael Winters, MD



Matthew Witek, MD, MS

► **Matthew Witek, MD, MS**, Visiting Instructor, Department of Radiation Oncology, presented “Laryngeal and Hypopharyngeal Radiotherapy Guidelines for Target Delineation,” on February 28, 2020 in Scottsdale, Ariz.

Grants & Contracts

Congratulations to our very productive faculty on their recent grants and contracts!



Robert Bloch, PhD

► **Robert Bloch, PhD**, Professor, Department of Physiology, was awarded a five-year, \$110,000 year subcontract on a newly funded \$617,468 National Institutes of Health grant for “Mechanisms of DUX4 Mediated FSHD Pathology.”

► **Konstantin Birukov, MD, PhD**, The Anesthesiology Endowed Professor in Entrepreneurial Research, Department of Anesthesiology, received a two-year, \$383,634 grant (NIH R01) from the National Institutes of Health which will fund his study entitled “Modulation of Inflammation in Aging Lung.”



Konstantin Birukov, MD, PhD



Victor Frenkel, PhD

► **Victor Frenkel, PhD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was awarded a one-year, \$156,826 grant from the Maryland Development Center LLC/DARPA SBIR for “Wearable Ultrasound for Imaging and Modulation.”

► **Rao Gullapalli, PhD, MBA**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was awarded a two-year, \$234,989 grant from the Walter Reed Army Institute of Research for “RAT/FERRET Characterization and Comparison of Ferret to Rat Traumatic Brain Injury.”



Rao Gullapalli, PhD, MBA



Jon Hirshon, MD, MPH, FACEP, FAAEM, FACPM

► **Jon Mark Hirshon, MD, MPH, FACEP, FAAEM, FACPM**, Professor, Department of Emergency Medicine, was co-awarded a grant of access to robust, highly valued data sets from the Robert Wood Johnson Foundation (RWJF) as part of RWJF’s “Health Data for Action” research

program. Dr. Hirshon and his co-awardee, **Ian Stockwell, PhD, MA**, Senior Director of Analytics and Research/Chief Data Scientist at the Hilltop Institute, will be using the data in their research project, “An Evaluation of Alternatives to the 30-Day All-Cause Readmission Measure.” In addition, Drs. Hirshon and Stockwell were awarded a grant of \$9,057 by the Department of Emergency Medicine and additional funding from the University of Maryland, Baltimore County, to carry out this research.



Asaf Keller, PhD

► **Asaf Keller, PhD**, Professor and Interim Chair, Department of Anatomy and Neurobiology, was among the recipients of a \$200,000/year UMCP & UMB - Artificial Intelligence + Medicine for High Impact (AIM-HI) Challenge Award for “Precision Therapy for Neonatal Opioid Withdrawal Syndrome.”

► **Areck Ucuzian, MD, PhD**, Assistant Professor, Department of Surgery, Center for Vascular and Inflammatory Diseases (CVID), received a five-year, \$815,542 grant from National Heart, Lung, and Blood Institute (NHLBI) for “Mechanisms of Aortopathy in LRP1 Deficiency.”



Areck Ucuzian, MD, PhD



Kelly Westlake, PhD, MSc, PT

► **Kelly Westlake, PhD, MSc, PT**, Assistant Professor, Department of Physical Therapy and Rehabilitation Science, in collaboration with Next Step Robotics, and **Jill Whittall, PhD**, Professor Emeritus, Department of Physical Therapy and Rehabilitation Science, as a consultant, received a Maryland Industrial Partnerships (MIPS) \$100,000 grant for “Instrumented Bilateral Arm Trainer with Actuation.” The overall objective of this project is to develop and test a low-cost and patient/therapist accepted, instrumented, and impedance-controlled modular bilateral arm trainer to improve function after stroke.

Appointments

We applaud our colleagues on their recent appointments!

► **Omer Awan, MD, MPH**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, has been appointed to the Editorial Board of *Academic Radiology*.



Maureen Black, PhD

► **Maureen Black, PhD**, The John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, was invited to serve on an expert panel convened by Healthy Eating Research (HER), a national program of the Robert Wood Johnson Foundation (RWJF). Over the next year, this panel will develop evidence-based best practices and guidelines for promoting the development of healthy eating behaviors aligned with optimal nutrition and physical growth among young children, ages 2–8 years.

► **Katharine Bisordi, MS, MGC, CGC**, Instructor, Department of Pediatrics, was on the committee that organized the inaugural Maryland and DC Society of Genetic Counselors (MDCGC) Annual Education Conference held on January 31, 2020 in Baltimore, Md. The MDCGC is a non-profit organization aimed at ensuring the quality of genetic health



Katharine Bisordi, MS, MGC, CGC

care and to promote the field of genetic counseling in Maryland and DC. Ms. Bisordi is one of the founding members of the MDCGC, has served as the organization’s Secretary since 2018, and also serves on the education committee.

► **Jon Mark Hirshon, MD, MPH, FACEP, FAAEM, FACPM**, Professor, Department of Emergency Medicine, was appointed:

- Chairman of the Board of the American College of Emergency Physicians on October 30, 2019. He will serve as Chair for one year.
- Member of the Board of Trustees for the Emergency Medicine Foundation in October 2019. He will serve as Trustee for three years.



Li Zhang, PhD

► **Li Zhang, PhD**, Professor, Department of Physiology, Center for Vascular and Inflammatory Diseases, has been selected as Chair of the Gordon Research Conference on Plasminogen Activation and Extracellular Proteolysis. He will serve as Vice Chair for the 2022 Gordon Research Conference and as Chair for the 2024 Gordon Research Conference.

Honors & Awards

Congratulations to the following who have received honors!



(L-R) Elizabeth Lamos, MD, Assistant Dean for Student Affairs, Max An, Medical Student, and Susan Wolfsthal, MD, The Celeste Lauve Woodward, MD Professor in Humanitarian and Ethical Medical Practice and Associate Chair

► **Max An**, Medical Student, has been chosen by the Maryland American College of Physicians to receive the 2019 Philip A. Mackowiak Award for Student Excellence.

► **Omer Awan, MD, MPH**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was selected as one of only four Global Learning Center (GLC) Program Team Members by the Radiological Society of North America. GLC is a new program in radiology education with the goal of building a sustained presence in middle to low income countries. Dr. Awan will be traveling to Stellenbosch University in

South Africa to address their need for subspecialty education in the area of musculoskeletal radiology.

► **Diana Carvajal, MD, MPH**, Assistant Professor, Department of Family & Community Medicine, received an American Academy of Family Physicians (AAFP) Health Equity Fellowship focused on increasing diversity, equity, and promotion in the academic medicine workforce.

► **Rupal Jain, MD**, Clinical Instructor, Department of Emergency Medicine, was selected by the medical students to be inducted into Alpha Omega Alpha Honor Medical Society for her excellence in teaching. Her induction will take place on March 26, 2020.

► **Elizabeth Lamos, MD**, Associate Professor, Department of Medicine, has been chosen by the Maryland American College of Physicians to receive the 2019 Early Career Physician Award for being highly respected by her colleagues for outstanding clinical and leadership skills.

► **Stanley Liu, MD**, Assistant Professor, Department of Medicine, has been chosen by the University of Maryland Gold Humanism



Elizabeth Lamos, MD



Rupal Jain, MD



Stanley Liu, MD



Devang Patel, MD

Honor Society as the 2020 Leonard Tow Humanism in Medicine Award. Dr. Liu was chosen for “demonstrating ideals of compassion, empathy, approachability to students, and cultural sensitivity.

► **Devang Patel, MD**, Assistant Professor of Medicine, Institute of Human Virology, was selected as a UMSOM 2020 Fellow of the Academy of Educational Excellence, established by Carolyn J. Pass, MD '66 and Richard J. Susel, MD '66. This honor, which was made possible through the generosity of Drs. Pass and Susel, is designed to recognize faculty members and other educators who demonstrate excellence in bedside, classroom and/or innovative medical education. Dr. Patel will be permanently installed into

the Academy of Educational Excellence at the 14th annual Student Awards Ceremony and Dinner on Wednesday, May 13, 2020 at the Baltimore Marriott Inner Harbor at Camden Yards.

► **Jason Ramirez, MD**, Assistant Professor, Department of Family & Community Medicine, was accepted as a LEAD Fellow in the 2020–2021 National LEAD Certificate program, an impactful leadership development and networking experience with other leaders from across the country.

► **Rose Viscardi, MD**, Professor, Department of Pediatrics, was selected as the 2020 ESPR “Mentor of the Year.” As the recipient of this year’s Mentor of the Year Award, she was invited to present her work during the Plenary Session on March 14, 2020. This is an award given annually to an outstanding teacher who has had a major impact on developing research skills in trainees and launching productive research careers. It recognizes the guidance and support they have provided to students, fellows, and colleagues.



Rose Viscardi, MD

► **Susan Wolfsthal, MD**, The Celeste Lauve Woodward, MD Professor in Humanitarian and Ethical Medical Practice, and Associate Chair for Education, has been chosen to receive the 2019 Theodore E. Woodward Award for Major Contributions to Medical Education.



Susan Wolfsthal, MD

In the News

A job well done to all who have kept us in the media spotlight!

► **Stacy Fisher, MD**, Associate Professor of Medicine, and Director, Women’s and Complex Heart Disease, testified to the Maryland House of Delegates in Annapolis, MD on February 6, 2020 on behalf of the American Heart Association (AHA) for the tobacco flavor bill trying to remove flavors from tobacco products in Maryland.

► **Jon Mark Hirshon, MD, MPH, FACEP, FAAEM, FACPM**, Professor, Department of Emergency Medicine, was interviewed for two *Business Insider* articles on the Wuhan coronavirus: “Hospitals Are Stockpiling Supplies Amid Fears a Coronavirus-Related Mask Shortage Could Endanger Healthcare Providers,” which was published on February 10, 2020, and “Workers on the Front Lines of Coronavirus



Jon Hirshon, MD, MPH, FACEP, FAAEM, FACPM

Response at 6 US Hospitals Reveal What They Do When a Suspected Case Comes In,” published on February 11, 2020.

Established Status Epilepticus Treatment Trial

A medical research study to learn how to treat patients with a type of prolonged seizures in the emergency department was recently performed in this community at The University of Maryland Medical Center in Baltimore.

Before the study, doctors didn’t know what medicine worked best. The study showed that three medicines commonly used to treat prolonged seizures all work similarly well, stopping seizures about half the time in both children and adults. The medicines were also similar in safety. These results give doctors more flexibility and confidence when treating patients with prolonged seizures.

The researchers thank the community for their support of this emergency research conducted with exception from consent. The study, called the Established Status Epilepticus Treatment Trial, or ESETT, was published in the November 28, 2019 issue of the *New England Journal of Medicine*. The study was funded by the National Institutes of Health.

To learn more about the research and the results visit the ESETT website at: [HYPERLINK "http://www.esett.org"](http://www.esett.org)

You can contact the primary study coordinator Virginia Ganley, RN, with any questions at 410-328-6395 or email vganley@som.umaryland.edu.

Publications

Hats off to those who have been published!



Brad Alger, PhD

► **Brad Alger, PhD**, Professor Emeritus, Department of Physiology, was among the authors of “Defense of the Scientific Hypothesis: From Reproducibility Crisis to Big Data” by Oxford University Press, October 2019.

► **Tracy Bale, PhD**, Professor, Department of Pharmacology and Director, Center for Epigenetic Research in Child Health and Brain Development, co-authored, “Deciphering the Brain Before Birth,” which was published in *Biological Psychiatry* on January 15, 2019.



Tracy Bale, PhD



Mordecai Blaustein, MD

► **Mordecai Blaustein, MD**, Professor, Departments of Physiology and Medicine, was the first author of “Multipurpose Na⁺ Ions Mediate Excitation and Cellular Homeostasis: Evolution of the Concept of Na⁺ Pumps and Na⁺/Ca²⁺ Exchangers,” which was published in *Cell Calcium* on January 25, 2020. In addition, Dr. Blaustein and **John Hamlyn, PhD**, Professor, Department of Physiology, were the authors of “Ouabain, Endogenous Ouabain and Ouabain-like Factors: the Na⁺ Pump/Ouabain Receptor, its Linkage to NCX, and its Myriad Functions,” which was published in *Cell Calcium* on January 9, 2020.

► **Nrusingh Biswal, PhD**, Assistant Professor, Department of Radiation Oncology, was the senior author of “Variation of V105% Between Pre-and Postmerged Subfields in Field-in-Field Hypofractionated Breast Radiotherapy Plans,” which was published in the Spring 2020 issue of *Medical Dosimetry*.

► **Mary Beth Bollinger, DO**, Professor, Department of Pediatrics, was among the co-authors of “Do Baseline Asthma and Allergic Sensitization Characteristics Predict Responsiveness to Mouse Allergen Reduction?” which was published in the February 2020 issue of the *Journal of Allergy and Clinical Immunology in Practice*.

► **James Borrelli, PhD**, Postdoctoral Fellow, Department of Physical Therapy and Rehabilitation Science, was a co-author on, “Protective Arm Movements Are Modulated with Fall Height,” which was published in the *Journal of Biomechanics* on December 19, 2019.



Mary Beth Bollinger, DO



Wengen Chen, MD, PhD

► **Wengen Chen, MD, PhD**, Professor, and **Vasken Dilsizian, MD**, Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, authored “Molecular Imaging of Cardiovascular Device Infection: Targeting the Bacteria or the Host-Pathogen Immune Response?” which was published in the *Journal of Nuclear Medicine* on February 7, 2020.

► **Azar Peter Dagher, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “The Association between Magnetic Resonance Imaging Disc Pathology and Provocative Discography at the Lumbar Level,” which was published in the *Journal of Computer Assisted Tomography* on January 10, 2020.

► **Natalie Davis, MD, MMSc**, Assistant Professor, Department of Pediatrics, was the senior author of “A National Survey of Car Seat Tolerance Screening Protocols in Neonatal Intensive Care Units,” which was published in *Academic Pediatrics* in February 2020.

► **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, co-authored “Child Maltreatment, Relationship with Father, Peer Substance Use, and Adolescent Marijuana Use,” which was published in the November 2019 issue of *Journal of Child and Adolescent Substance Abuse*. In addition, Dr. Dubowitz, co-authored “The Global Challenge of the Neglect of Children,” which was published in the December 2019 issue of *Child Abuse and Neglect*. Separately,



Howard Dubowitz, MB, ChB, MS, FAAP

Dr. Dubowitz, published a chapter titled, “Safe Environment for Every Kid” in Gershoff & Lee (Eds.) *Ending the Physical Punishment of Children* in January 2020.

► **Thomas Ernst, Dr rer nat**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was last author of “Prospective Motion Correction of fMRI: Improving the Quality of Resting State Data Affected by Large Head Motion,” which was published in the February 2020 issue of *Neuroimage*. Dr. Ernst also was among the co-authors of “Differences in the Association of Diet Quality with Body Fat Distribution between Men and Women,” which was published in *European Journal of Clinical Nutrition* on January 24, 2020.

► **Kyle Fischer, MD**, Clinical Assistant Professor, Department of Emergency Medicine, was first author of “Prevention Professional for Violence Intervention: A Newly Recognized Health Care Provider for Population Health Programs,” which was published in the *Journal of Health Care for the Poor and Underserved* on February 7, 2020.

► **Aletta Frazier, MD**, Clinical Professor, and **Rydhwana Hossain, MD**, Assistant Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “A Spectrum of Metastatic Disease in the Chest: Insights for the Radiologist,” which was published in the January 2020 issue of *Seminars in Roentgenology*.



Kyle Fischer, MD



Dheeraj Gandhi, MBBS

► **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “CT Angiography for Triage of Patients with Acute Minor Stroke: A Cost-Effectiveness Analysis,” which was published in *Radiology* on January 14, 2020.

► **Molly Goodfellow, PhD**, Postdoctoral Fellow; **Apurva Borcar, PhD**, Postdoctoral Fellow; **Julie Proctor, MS**, Lab Manager; **Tiffany Greco, PhD**, Former UMB PhD Student; **Robert Rosenthal, MD**, Professor

of Emergency Medicine and Director, Hyperbaric Medicine; **Gary Fiskum, PhD**, Matjasko Professor for Research in Anesthesiology and Vice Chair, all from the Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), were among the co-authors of “Transcriptional Activation of Antioxidant Gene Expression by Nrf2 Protects Against Mitochondrial Dysfunction and Neuronal Death Associated with Acute and Chronic Neurodegeneration,” which will be published in the June 2020 issue of *Experimental Neurology*.

► **Rebecca Henry, PhD**, Research Associate; **Rodney Ritzel, PhD**, Postdoctoral Fellow; **James Barrett, PhD**, Research Associate; **Sarah Doran, MD, PhD**, Research Assistant; **Junfang Wu, BM, PhD**, Associate Professor; **Bogdan Stoica, MD**, Associate Professor; **Alan Faden, MD**, Professor; **David Loane, PhD**, Adjunct Associate Professor, all from the Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), were among the co-authors of “Microglial Depletion with CSF1R Inhibitor During Chronic Phase of Experimental Traumatic Brain Injury Reduces Neurodegeneration and Neurological Deficits,” which was published in the February 2020 issue of *The Journal of Neuroscience*.



James Barrett, PhD

► **Rydhwana Hossain, MD**, Assistant Professor and **Charles White, MD**, Professor, both from the Department of Diagnostic Radiology and Nuclear



Isabel Jackson, PhD

Medicine, were among the co-authors of “Epidemiology of Lung Cancer,” which was published in the January 2020 issue of *Seminars in Roentgenology*.

► **Isabel Jackson, PhD**, Assistant Professor; **Diana Newman**, Lab Research Manager; **Zeljko Vujaskovic, MD, PhD**, Professor; **Chelsea Wagner**,



Charles White, MD

Research Lead Specialist; and **Andrew Zodda**, Research Specialist, all from the Department of Radiation Oncology, were among the authors of “Manufacturing Biological Medicines on Demand: Safety and Efficacy of Granulocyte Colony-Stimulating Factor in a Mouse Model of Total Body Irradiation,” which was published in *Biotechnology Progress* on January 28, 2020.



Eldin Jašarevic, PhD

► **Eldin Eldin Jašarevic, PhD**, Research Associate, Department of Pharmacology and Center for Epigenetic Research in Child Health and Brain Development, and **Tracy Bale PhD**, Professor, Department of Pharmacology and Director, Center for Epigenetic Research in Child Health and Brain Development, co-authored, “Antidepressant Treatment with Fluoxetine During Pregnancy and Lactation Modulates the Gut Microbiome and Metabolome in a Rat Model Relevant to Depression,” which was published in *Gut Microbes* on January 23, 2020.

► **Lushen Li, PhD**, Postdoctoral Fellow; **Marian Willsonshirkey**, Research Technician; **Tianshu Zhang, PhD**, Research Associate; **Yanbao Xiong**, Research Associate; **Wenji Piao, DrMed**, Research Associate; **Vikas Saxena, PhD**, Postdoctoral Fellow; **Christina Paluskiewicz, MD**, Resident; **Young Lee, PhD**, Research Associate; **Nicholas Toney, Benjamin Cerel, Qinshan Li, MD, PhD**, and **Thomas Simon**, Postdoctoral Fellows; along with **Jonathan Bromberg, MD, PhD**, Professor, all from Department of Surgery and Center for Vascular and Inflammatory Diseases, were among the co-authors on “The Lymph Node Stromal Laminin $\alpha 5$ Shapes Alloimmunity,” which was published in the *Journal of Clinical Investigation* on February 4, 2020.



Jonathan Bromberg, MD, PhD

► **Michael MacFarlane, PhD**, Physics Resident, Department of Radiation Oncology, was among the authors of “Technical Note: A Fast Inverse Direct Aperture Optimization Algorithm for Volumetric-Modulated Arc Therapy,” which was published in *Medical Physics* on February 6, 2020.

► **Margaret McCarthy PhD**, The James and Carolyn Frenkil Dean’s Professor and Chair, Department of Pharmacology, co-authored “The Promises and Pitfalls of Sex Difference Research,” which was published in the December 2019 issue of *Frontiers of Neuroendocrinology*.



Margaret McCarthy, PhD

► **Robert Miller, MD**, Professor, Department of Radiation Oncology, was the senior author of “Impact of Patient Stage and Disease Characteristics on the Proposed Radiation Oncology Alternative Payment Model (RO-APM),” which was e-published in the *International Journal of Radiation Oncology, Biology, Physics* on January 28, 2020.



Robert Miller, MD

► **Arezoo Modiri, PhD**, Assistant Professor; **Javed Mahmood, PhD**, Assistant Professor; and **Amit Sawant, PhD**, Associate Professor, all from the Department of Radiation Oncology, were among the authors of “On-Line Dose Delivery Verification in Small Animal Image-Guided Radiotherapy,” which was published in *Medical Physics* on February 5, 2020.



Arezoo Modiri, PhD

► **Christopher Morgan, PhD**, Associate Director of Epigenetic Research, and **Tracy Bale, PhD**, Professor, Department of Pharmacology and Director, Center for Epigenetic Research in Child Health and Brain Development, were among the authors of “Driving the Next Generation: Paternal Lifetime Experiences Transmitted via Extracellular Vesicles and Their Small RNA Cargo,” which was published in *Biological Psychiatry* on January 15, 2019.



Tracy Bale, PhD

► **Kathleen Morrison, PhD**, Postdoctoral Fellow; **Eldin Jašarevic PhD**, Research Associate; **Christopher Howard**, Research Specialist; and **Tracy Bale, PhD**, Professor and Director, Center for Epigenetic Research in Child Health and Brain Development, all current or former members of the Department of Pharmacology, were among the authors of “It’s the Fiber, Not the Fat: Significant Effects of Dietary Challenge on the Gut Microbiome,” which was published in *Microbiome* on February 11, 2020. Separately, Drs. Morrison and Bale, along with **Patrick Kane**, Research Specialist; **Victoria Meadows**, Research Specialist, all from the Department of Pharmacology; and **Anthony Cole**, Graduate Research Assistant; and **Scott Thompson, PhD**, Professor and Chair of the Department of Physiology, authored a paper “Pubertal Adversity Alters Chromatin Dynamics and Stress Circuitry in the Pregnant Brain,” which was published in *Neuropsychopharmacology* on February 11, 2020.



Scott Thompson, PhD

► **Michael Mulligan, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was last author of “Dual Energy CT Can Aid in the Emergent Differentiation of Acute Traumatic and Pathologic Fractures of the Pelvis and Long Bones,” which was published in *Emergency Radiology* on January 25, 2020.



Vincent Njar, PhD

► **Vincent Njar, PhD**, Professor of Medicinal Chemistry & Pharmacology, Department of Pharmacology; Head, Medicinal Chemistry Section, Center for Biomolecular Therapeutics (CBT), is among the co-authors of “Male Hormonal Therapies,” Chapter 10, pp 131-146 in *Cancer Pharmacology: An Illustrated Manual of Anticancer Drugs*; Ashkan Emadi, MD, PhD and Judith E. Karp, MD, Editors; 2020 Springer Publishing Company, LLC. The other UMB/UMSOM co-author is **Arif Hussain, MD**, Professor, Department of Medicine.

► **Erin O’Connor, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “An Improved Algorithm of White Matter Hyperintensity Detection in Elderly Adults,” which was published in the December 2019 issue of *Neuroimage: Clinical*.



Erin O’Connor, MD

► **Wenji Piao, PhD**, Research Associate; **Yanbao Xiong**, Research Associate; **Lushen Li, PhD**, Postdoctoral Fellow; **Vikas Saxena, PhD**, Postdoctoral Fellow; **Christina Paluskiewicz, MD**, Resident; **Marian Willsonshirkey**, Research Technician, all from the Center for Vascular and Inflammatory Disease; along with **Jonathan Bromberg, MD, PhD**, Professor, Department of Surgery and Microbiology and Immunology, were among the co-authors of “Regulatory T Cells Condition Lymphatic Endothelia for Enhanced Transendothelial Migration,” which was published in the January 2020 issue of *Cell Reports*.



Yannick Poirier, PhD

► **Yannick Poirier, PhD**, Assistant Professor, and **Amit Sawant, PhD**, Associate Professor, both from the Department of Radiation Oncology, were among the authors of “A Failure Modes and Effects Analysis Quality Management Framework for Image-Guided Small Animal Irradiators: A Change in Paradigm for Radiation Biology,” which was published in *Medical Physics* on January 27, 2020.

► **Houman Qadir**, Graduate Student, Program in Neuroscience, and **Brian Mathur, PhD**, Associate Professor, both from the Department of Pharmacology, authored “Identifying SUM Projections to Claustrium Is About Knowing Your Limits,” which was published in *Claustrium* on May 23, 2019.



Brian Mathur, PhD

► **William Regine, MD, FACR, FACRO**, professor, and The Isadore & Fannie Schneider Foxman Chair of the Department of Radiation Oncology, was among the authors of “Results of the NRG Oncology/RTOG 0848 Adjuvant Chemotherapy



William Regine, MD, FACR, FACRO

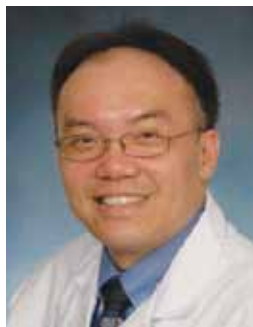
Question—Erlotinib+Gemcitabine for Resected Cancer of the Pancreatic Head: A Phase II Randomized Clinical Trial,” which was published in the January 2020 issue of the *American Journal of Clinical Oncology*.

► **Jill Remick, MD**, Resident, Department of Radiation Oncology, was among the authors of “Estrogen, Progesterone and HER2 Receptor Discordance Between Primary Tumor and Brain Metastases in Breast Cancer and Its Effect on Treatment and Survival,” which was e-published in *Neuro-Oncology* on February 8, 2020.

► **Bradford Schwartz, MD**, Adjunct Assistant Professor, and **Quincy Tran, MD**, Assistant Professor, both from the Department of Emergency Medicine, were among the authors of “Accuracy of History of Present Illness Findings in Detecting Serious Head and Spinal Injury from Traumatic Near Shore Aquatic Injuries,” which was published in the October 2019 issue of *Annals of Emergency Medicine*.

► **Giovannino Silvestri, PhD**, Research Associate, Department of Medicine, Institute of Human Virology, was among the authors of “Persistence of Drug-Resistant Leukemic Stem Cells and Impaired NK Cell Immunity in CML Patients Depend on MIR300 Antiproliferative and PP2A-Activating Function,” which was published in *Blood Cancer Discovery* on March 4, 2020.

► **Stephen Thom, MD, PhD**, Professor, Department of Emergency Medicine, was among the authors of “Blood-Borne and Brain-Derived



Quincy Tran, MD



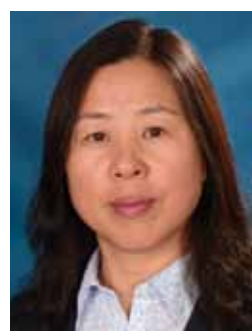
Stephen Thom, MD, PhD

Microparticles in Morphine-Induced Anti-Nociceptive Tolerance,” which was accepted for publication in *Brain, Behavior, and Immunity* on January 24, 2020. In addition, Dr. Thom and **Quincy Tran, MD**, Assistant Professor, also from the Department of Emergency Medicine, were among the authors of “Transportation Management Affecting Outcomes of Patients with Spontaneous Intracranial Hemorrhage,” which was published in *Air Medical Journal* on January 14, 2020.

► **Yan Wang, BM, DrPH**, Associate Professor, Department of Pediatrics; **Larry Magder, PhD**, Professor, Department of Epidemiology & Public Health; **Erin Hager, PhD**, Associate Professor, Department of Pediatrics; and **Maureen Black, PhD**, The John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, were co-authors of “Toddler Home Safety Promotion Intervention Trial by Initial Home Safety Problems,” which was published in *Maternal and Child Health Journal* on December 12, 2019.



Yan Wang, BM, DrPH



Guiling Zhao, PhD

► **Guiling Zhao, PhD**, Assistant Professor; **Humberto Joca, PhD**, Postdoctoral Fellow; and **Jonathan Lederer, MD, PhD**, Professor and Director, all from the Center for Biomedical Engineering and Technology, co-authored “ATP-Dependent and Voltage-Regulated Blood Flow in Heart: Electro-Metabolic Signaling,” which was published in the March 2020 issue of *Proceedings of the National Academy of Sciences of the United States of America*. An image from this publication is also being considered for a *PNAS* cover.

Separately, Drs. Zhao and Lederer, along with **Aaron Kaplan, MD, PhD**, Cardiology Research Fellow, and **Maura Greiser, MD, PhD**, Research Associate, all from the Center for Biomedical Engineering and Technology, co-authored “The Surprising Complexity of KATP Channel Biology and of Genetic Diseases,” which was published in the March 2020 issue of the *Journal of Clinical Investigation*.

HOW TO SUBMIT INFORMATION TO THE **Buzz**

If you would like to acknowledge an award, presentation, publication, or other noteworthy accomplishments, please send the information to the liaison within your department, program, center or office.

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