



SELF-REPORTED NEWS from the SCHOOL OF MEDICINE COMMUNITY

Events, Lectures & Workshops

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

► Four faculty members from the Department of Emergency Medicine were invited speakers at the 2019 Symposium on Wound Care and Hyperbaric Medicine, which was held at the Hyatt Regency Baltimore Inner Harbor, March 30–31.

- **Stephen Thom, MD, PhD**, Professor, presented “Basic Mechanisms of Action of Hyperbaric Oxygen Therapy and Its Future.”

- **Robert Rosenthal, MD**, Professor, presented “Traumatic Brain Injury and Hyperbaric Oxygen Therapy.”

- **Douglas Sward, MD**, Clinical Assistant Professor, presented “Non-diving Gas Embolism Including Hypobaric Conditions.”

- **Kinjal Sethuraman, MD, MPH**, Assistant Professor, presented “Central Retinal Artery Occlusion/Arterial Insufficiency.”

► Faculty members from the Department of Emergency Medicine also presented lectures at the Annual Educational Conference of the Maryland chapter of the American College of Emergency Physicians, held at the BWI Airport Marriott on March 14.

- **Amal Mattu, MD**, Professor and Vice Chair of Academic Affairs, presented “Emergency Cardiology Literature Update: The Articles You’ve Got to Know!”

- **Jason Adler, MD**, Clinical Assistant Professor, presented “A Clinical Approach to Critical Care Coding—Rapid Fire Pearls and Pitfalls You’ve Got to Know.”

- **Sarah Dubbs, MD**, Clinical Assistant Professor, presented “Next Gen Onc: Coming to an ED Near You!”

- **Michael Bond, MD**, Associate Professor, served on the Education Planning Committee that designed the conference program.

► Several faculty from the Department of Radiation Oncology presented at the American College of Radiation Oncology Summit in Orlando, Fla., March 7–8.

- **Muhammad Hamza**, Medical Student, presented “Adverse Events in Patients with Implantable Cardiac Devices Undergoing Radiotherapy: Is It Time to Revise Guidelines?”

- **Jill Remick, MD**, Resident; **Emily Kowalski, MD**, Resident; and **Pranshu Mohindra, MD**, Assistant Professor, were among the authors of “A Survey of Understanding and Perceptions of Palliative Care in Radiation Oncology.”

► **Nariman Balenga, PhD**, Assistant Professor, Department of Surgery, presented a talk at the Experimental Biology Meeting in Orlando, Fla. in April. The topic of his talk was “Parathyroid-Targeted Overexpression of Regulator Of G-Protein Signaling 5 (RGS5) Causes Hyperparathyroidism in Transgenic Mice.” In addition, Dr. Balenga, presented “A Fungal Allergen Provokes Airway Hyperresponsiveness by Potentiating GPCR Signaling,” at the University of Maryland School of Pharmacy in February. Separately, Dr. Balenga presented “Demystifying the Pharmacology of GPR64, an Orphan Adhesion GPCR in Parathyroid Tumors,” at the Molecular and Structural Biology Program of the University of Maryland Greenbaum Cancer Center, in February.



Nariman Balenga, PhD



Stephen Thom, MD, PhD



James Campbell, MD, MS

► **James Campbell, MD, MS**, Professor of Pediatrics, Center for Vaccine Development and Global Health, participated in a Centers for Disease Control and Prevention (CDC) Webinar related to National Infant Immunization Week, April 27–May 4.

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, delivered three oral presentations: “SNMMI Leadership Update and Future Considerations”, “SPECT Myocardial Perfusion, Function, Amyloid and Innervation Imaging” and “PET Myocardial Perfusion and Viability,” at the Society of Nuclear Medicine and Molecular Imaging 49th Annual Mid-Eastern Chapter Annual Meeting, which was held in Gettysburg, Pa., April 12–14.



Vasken Dilsizian, MD



Howard Eisenberg, MD

► **Howard Eisenberg, MD**, the Raymond K. Thompson, MD Professor and Chair in Neurosurgery, was selected and honored to deliver the Osler Young Researcher’s Lecture, at the American Association of Neurological Surgeons (AANS) in San Diego, Calif. on April 14. The title of his talk was “William and Harvey and My Accidental Career.”

► **Robert Gallo, MD**, the Homer & Martha Gudelsky Distinguished Professor in Medicine, Director, Institute of Human Virology, received the International Society for Antiviral Research (ISAR) Award of Excellence and presented “Human Retroviruses (HTLV-1 and HIV): Current Therapy and Prevention,” at the 32nd International Conference of Antiviral Research, May 12–15, in Baltimore, Md. Separately, Dr. Gallo gave the keynote lecture at the University of the West Indies Global Virus Network Centre of Excellence Launch, in Mona, Jamaica, on February 19. The title of his talk was “Virus Epidemics: Reflections on the past and prospects for the future with emphasis on HIV/AIDS.”



Robert Gallo, MD



Matthew Laurens, MD, MPH

► **Matthew Laurens, MD, MPH**, Associate Professor of Pediatrics, Center for Vaccine Development and Global Health, gave a speech “*P. falciparum* Parasitemia Clearance” at the International PfSPZ Consortium Meeting in Oxford, England on May 7. In addition, he was an abstract reviewer at the Pediatric Academic Societies (PAS) Meeting, April 24–May 1, in Baltimore, Md.

► **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Disease, Center for Vaccine Development and Global Health, presented at the International Symposium, “A Tribute to Professor Philippe Sansonetti,” at the Institut Pasteur in Paris on April 25. In addition, he presented “Clinical Trials: An Overview of Issues to Be Considered,” at the 20th Advanced Course Vaccinology, Annecy, France on May 16.



Myron Levine, MD, DTPH

Events, Lectures & Workshops Continued

► **Rachel McCarroll, PhD**, Physics Resident, Department of Radiation Oncology, was among the presenters at the American Association of Physicists in Medicine Spring Clinical Meeting, March 31–April 1, in Kissimmee, Fla. Her presentations included: “Fully Automated Head-and-Neck Contouring and VMAT Planning with Integrated and Comprehensive QA,”; “Effective Automated Treatment Planning and Quality Assurance for Cervical and Breast Cancer for Limited-Resource Clinics” and “Using Artificial Intelligence to Auto-Delineate Patient-Specific Head-and-Neck Clinical Target Volumes Within a Fully-Automated Treatment Planning System.” **Pouya Sabouri, PhD**, Resident, also from the Department of Department of Radiation Oncology, presented “Dosimetric Impact Associated with the New 25-Source GammaPod” at the same meeting.

► **Justin Ortiz, MD, MS**, Associate Professor, Department of Medicine, spoke at the Immunization for Life Summit, June 5–6, in Washington, D.C. about vaccine prioritization. This is a meeting sponsored by International Federation of Aging and partners to advocate for vaccination across the life course.



Sandra Quezada, MD, MS

► **Sandra Quezada, MD, MS**, Assistant Professor, Department of Medicine, Dean for Admissions, and Assistant Dean for Academic and Multicultural Affairs, presented a lecture on Colon Cancer Awareness and Prevention to the Latino community in Baltimore on Saturday, March 30, as part of the University of Maryland Greenbaum Cancer Center’s Baltimore City Cancer Program.

► **Nirav Shah, MD**, Associate Professor, and **Sandra Quezada, MD, MS**, Assistant Professor, both from the Department of Medicine, presented a workshop on “Minimizing Bias in the Pre-Clerkship Years” at the



Nirav Shah, MD

Rescue Service, for which Dr. Stone serves as medical director. EMS Today is an annual educational conference sponsored by JEMS. Its lectures, exhibits, and equipment demonstrations attract more than 4600 emergency medical services personnel from around the world. The presentation by Dr. Stone and Chief Butsch was one of three from EMS Today 2019 to be covered by EMS1.com, an online information resource for prehospital care personnel.

► **Sharon Tennant, PhD**, Associate Professor of Medicine, Center for Vaccine Development and Global Health (CVD) presented “Nontyphoidal *Salmonella* Disease. Current Status of Vaccine Research and Development” at the World Vaccine Congress in Washington, D.C., April 14-17. Other CVD faculty members who presented included **Myron Levine, MD**, The Simon and Bessy Grollman Distinguished Professor of Medicine, Associate Dean for Global Health, Vaccinology and Infectious Diseases. His topic was “Development of Multivalent Live Attenuated and Conjugate *Salmonella* Vaccines.”



Sharon Tennant, PhD

Honors & Awards

Congratulations to the following who have received honors!



Nariman Balenga, PhD

► **Nariman Balenga, PhD**, Assistant Professor, Department of Surgery, received the Early Career Award in Translational and Clinical Pharmacology from the American Society for Pharmacology and Experimental Therapeutics (ASPET) in April 2019.

► **Poorna Dharmasri, MS**, a PhD Student in the Training Program in Integrative Membrane Biology (TPIMB), Program in Neuroscience, and the lab of **Thomas Blanpied PhD**, Associate Professor, Department of Physiology, received the 6th Annual Hugo González-Serratos Scientific Presentation Award at the TPIMB Retreat on May 3, 2019 for his poster titled, “Glutamate Receptors as Directors of Synaptic Nanostructure.” The award was presented by **Matt Trudeau, PhD**, Associate Professor, and **Andrea Meredith, PhD**, Associate Professor, both from the Department of

Physiology and Co-Directors of the TPIMB, and is made possible by a gift from the González-Serratos family.

► **David Feliciano, MD**, Clinical Professor, Department of Surgery, was one of 36 surgeons nationally inducted into the inaugural class of the “Academy of Master Surgeon Educators” of the American College of Surgeons. The induction ceremony was held on October 3, 2018, at the Murphy Auditorium of the American College of Surgeons in Chicago, Ill. The 36 Members and 55 Associate Members were selected after a stringent screening process to evaluate each applicant’s commitment to and accomplishments in the field of surgical education.

► **Rekha Rapaka, MD, PhD**, Assistant Professor of Medicine, Center for Vaccine Development and Global Health, received the Passano Physician Scientist award on May 6, 2019.

New Faculty

We welcome our new faculty!

► **Patti Gravitt, PhD, MS**, joined the Department of Epidemiology & Public Health as a Professor in April 2019. A molecular epidemiologist, Dr. Gravitt comes to the Department with more than 15 years of research experience in cervical cancer prevention.

► **Marey Shriver, PhD**, joined the Office for Research Career Development as Director in January 2019. The addition of Dr. Shriver will expand program services, allowing more individual support to investigators in planning, developing and writing grant applications.



Marey Shriver, PhD

Dr. Shriver will provide individual consultations, as well as new classes and workshops, including “Developing a Research Question and Hypothesis” and “Planning Your R03/R21 Grant Application.” If you are planning or developing a grant application and would like to meet with Dr. Shriver, please email her at mshriver@som.umaryland.edu.

Publications

Hats off to those who have been published!



Ngozi Akabudike, MD

► **Ngozi Akabudike, MD**, Assistant Professor, and **Motomi Enomoto-Iwamoto, PhD**, Associate Professor, both from the Department of Orthopaedics, were among the co-authors of “Control of Glucose Metabolism is Important in Tenogenic Differentiation of Progenitors Derived from Human Injured Tendons,” which was published in *PLoS One* in March 2019.

► **Idris Amin, MD**, Assistant Professor, Department of Orthopaedics, was the author of “Platelet-Rich Plasma Use in Musculoskeletal Disorders: Are the Factors Important in Standardization Well Understood?” which was published in the May 2019 issue of *Physical Medicine and Rehabilitation Clinics of North America*.

► **Omer Awan, MD, MPH**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the first author of “Making Learning Fun: Gaming in Radiology Education,” which was published in *Academic Radiology* on April 17, 2019.



Nariman Balenga, PhD

► **Nariman Balenga, PhD**, Assistant Professor, Department of Surgery, was among the co-authors of “Parathyroid-Targeted Overexpression of Regulator of G-Protein Signaling 5 (RGS5) Causes Hyperparathyroidism in Transgenic Mice,” which was published in the *Journal of Bone Mineral Research* on January 28, 2019.

► **Scott Baliban, PhD**, Postdoctoral Fellow, Center for Vaccine Development and Global Health, was among the co-authors of “Synthetic and Immunological Studies of *Salmonella Enteritidis* O-Antigen Tetrasaccharides as Potential Anti-*Salmonella* Vaccines,” which was published in *Chemical Communications* on April 11, 2019.

► **Cynthia Bearer, MD, PhD**, Professor, Department of Pediatrics, co-authored “Gender Bias at Pediatric Research?” which was published in *Pediatric Research* on December 9, 2018. Separately, Dr. Bearer co-authored “Calling for Research Articles on Environmental Health,” which was published in the March 2019 issue of *Pediatric Research*.



Idris Amin, MD



Cynthia Bearer, MD, PhD

► **Linda Chang, MD, MS**, Professor, and **Thomas Ernst, Dr rer nat**, Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “A Multi-Atlas Label Fusion Tool for Neonatal Brain MRI Parcellation and Quantification,” which was published in the *Journal of Neuroimaging* on April 29, 2019. Dr. Chang also was a co-author of “Adaptive Computerized Working Memory Training in Patients with Mild Cognitive Impairment. A Randomized Double-Blind Active Controlled Trial,” which was published in *Frontiers in Psychology* on April 12, 2019.



Linda Chang, MD, MS

► **Derik Davis, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the author of “Lunotriquetral Coalition and Ulnar Impaction Syndrome: A Pictorial Essay,” which was published in the March-April 2019 issue of *Radiologia Brasileira*.



Derik Davis, MD

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, co-authored “Coronary Microvascular Dysfunction: Clinical Considerations and Noninvasive Diagnosis,” which was published in the *Journal of the American College of Cardiology: Cardiovascular Imaging* 2019 on April 11, 2019.

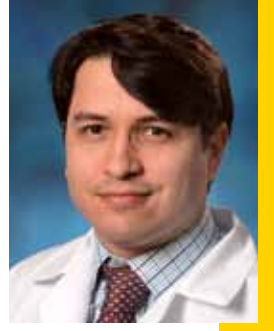


Vasken Dilsizian, MD

► **Sarah Doran, MD/PhD Student**; **Rodney Ritzel, PhD**, Postdoctoral Fellow; **Ethan Glaser**, Research Assistant; **Rebecca Henry, PhD**, Postdoctoral Fellow; **Alan Faden, MD**, the David S. Brown Professor in Trauma and

Director of the Shock, Trauma & Anesthesiology Research (STAR) Center; and **David Loane, PhD**, Adjunct Associate Professor, all from the Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), were among co-authors of, “Sex Differences in Acute Neuroinflammation after Experimental Traumatic Brain Injury Are Mediated by Infiltrating Myeloid Cells,” which was published in the *Journal of Neurotrauma* on April 1, 2019.

► **David Dreizin, MD**, Assistant Professor; **Uttam Bodanapally, MBBS**, Assistant Professor; and **Amelia Wnorowski, MD**, Assistant Professor; all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “A Comparison of Segmented Abdominopelvic Fluid Volumes with Conventional CT Signs of Abdominal Compartment Syndrome in a Trauma Population,” which was published in *Abdominal Radiology* on April 5, 2019. Dr. Wnorowski also was among the co-authors of “Mucin-Containing Rectal Carcinomas: Overview of Unique Clinical and Imaging Features,” which was published in the *American Journal of Roentgenology* on April 17, 2019.



David Dreizin, MD



Ann Farese, MA, MS

► **Ann Farese, MS, MT**, Assistant Professor; **Alex Bennett**, Research Lead Specialist; **Allison Gibbs**, Research Specialist; **Kim Hankey, PhD**, Assistant Professor; and **Thomas MacVittie, PhD**, Professor, all from the Department of Radiation Oncology, were among the authors of “Efficacy of Neulasta or Neupogen on H-ARS and GI-ARS Mortality and Hematopoietic Recovery in Nonhuman Primates after 10-Gy Irradiation with 2.5% Bone Marrow Sparing,” which was published in the March 2019 issue of *Health Physics*.

► **Meagan Fitzpatrick, PhD**, Assistant Professor of Medicine, Center for Vaccine Development and Global Health, was among the authors of “Ebola Vaccination in the Democratic Republic of the Congo,” which was published in *PNAS* May 14, 2019.



Meagan Fitzpatrick, PhD



Victor Frenkel, PhD

► **Victor Frenkel, PhD**, Associate Professor, and **Pavlos Anastasiadis, PhD**, Postdoctoral Fellow, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Design, Characterization and Evaluation of a Laser-Guided Focused Ultrasound System for Preclinical Investigations,” which was published in *BioMed Engineering OnLine*, March 28, 2019.

► **Rao Gullapalli, PhD, MBA**, Professor, and **Su Xu, PhD**, Associate Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Functional Connectivity and Metabolic Alterations in Medial Prefrontal Cortex in a Rat Model of Fetal Alcohol Spectrum Disorder: A Resting-State Functional Magnetic Resonance Imaging and In Vivo Proton Magnetic Resonance Spectroscopy Study,” which was published in *Developmental Neuroscience* on April 18, 2019. Dr. Gullapalli also was among the co-authors of “Decreased Grey Matter Volume in mTBI Patients with Post-Traumatic Headache Compared to Headache-Free mTBI Patients and Healthy Controls: a Longitudinal MRI Study,” which was published in *Brain Imaging and Behavior* on April 12, 2019.



Rao Gullapalli, PhD, MBA



Rebecca Henry, PhD

► **Rebecca Henry, PhD**, Postdoctoral Fellow; **Bogdan Stoica, MD**, Associate Professor; **David Loane, PhD**, Adjunct Associate Professor; **Gelareh Abulwerdi, PhD Student**; **Shahnawaz Bhat, PhD**, Postdoctoral Fellow; and **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (STAR) Center; all from the Department of Anesthesiology

and STAR Center, authored “Sphingomyelinase Inhibition Alleviates LPS-Induced Microglial Activation and Neuroinflammation after Traumatic Brain Injury,” which was published in the March 2019 issue of the *Journal of Pharmacology and Experimental Therapeutics*. Separately, Drs. Henry, Faden, and Loane, along with **Sarah Doran, MD/PhD Student**; **James Barrett, PhD**, Postdoctoral Fellow; **Boris Sabirzhanov, PhD**, Assistant Professor; **Bogdan Stoica, MD**, Associate Professor; **Victoria Meadows**, Research Assistant; all from the Department of Anesthesiology, authored “Inhibition of Mir-155 Limits Neuroinflammation and Improves Functional Recovery after Experimental Traumatic Brain Injury in Mice,” which was published in the January 2019 issue of *Neurotherapeutics*.

► **Rydhwana Hossain, MD**, Assistant Professor; **Lydia Chelala, MD**, Resident; **Jean Jeudy, MD**, Associate Professor; and **Charles White, MD**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Intracavitary Coronary Artery: An Unusual Coronary Anomaly,” which was published in the *Journal of Thoracic Imaging* on April 26, 2019.



Charles White, MD

► **Isabel Jackson, PhD**, Associate Professor; **Allison Gibbs**, Research Specialist; **Yannick Poirier, PhD**, Assistant Professor; and **Zeljko Vujaskovic, MD, PhD**, Professor; all from the Department of Radiation Oncology, were among the authors of “Hematological Effects of Non-Homogenous Ionizing Radiation Exposure in a Non-Human Primate Model,” which was published in *Radiation Research* on March 14, 2019.



Isabel Jackson, PhD

► **Adeel Kaiser, MD**, Assistant Professor, and **Christopher Haskins, MD**, Resident, both from the Department of Radiation Oncology, were among the authors of “The Evolving Role of Diet in Prostate Cancer Risk and Progression,” which was published in *Current Opinions in Oncology* on March 15, 2019.

► **Pratap Karki, DSci**, Assistant Professor, and **Anna Birukova, MD**, Professor, both from Department of Medicine, were among the co-authors on “Microtubule Destabilization Caused by Particulate Matter Contributes to Lung Endothelial Barrier Dysfunction and Inflammation,” which was published in the January 2019 issue of *Cellular Signaling*. In addition, Drs. Karki and Birukova were among the co-authors on “*Staphylococcus aureus*-induced Endothelial Permeability and Inflammation are Mediated by Microtubule Destabilization,” which was published in the March 2019 issue of the *Journal of Biological Chemistry*. **Yunbo Ke, PhD**, Assistant Professor and **Konstantin Birukov, MD, PhD**, Professor, also from the Department of Anesthesiology, along with Drs. Karki and Birukova, were among the co-authors on “Mechanosensitive Rap1 Activation Promotes Barrier Function of Lung Vascular Endothelium Under Cyclic Stretch,” which was published in the *Molecular Biology of the Cell* 2019 on April 1, 2019.



Pratap Karki, DSci

► **Scott Koenig, MD**, and **Julio Jauregui, MD**, Residents; **Nathan O’Hara, MHA**, Research Associate; **Daniel Gelb, MD**, Professor; and **Steven Ludwig, MD**, Professor; all from the Department of Orthopaedics, were among the co-authors of “Biomechanical Evaluation of Lumbar Lateral Interbody Fusion for the Treatment of Adjacent Segment Disease,” which was published in the March 2019 issue of *The Spine Journal*.



Nathan O’Hara, MHA

► **Karen Kotloff, MD**, Professor of Pediatrics; **Dilruba Nasrin, MBBS, PhD**, Assistant Professor of Medicine; **William Blackwelder, PhD**, Adjunct Professor, Department of Epidemiology & Public Health; **Samba Sow, MD, MS**, Adjunct Professor of Medicine; **Sharon Tennant, PhD**, Associate Professor of Medicine; and **Myron M. Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Disease; all from the Center



Karen Kotloff, MD

for Vaccine Development and Global Health, were among the authors of “The Incidence, Aetiology, and Adverse Clinical Consequences of Less Severe Diarrhoeal Episodes among Infants and Children Residing in Low-Income and Middle-Income Countries: A 12-Month Case-Control Study as a Follow-On to the Global Enteric Multicenter Study (GEMS),” which was published in *Lancet Global Health* on May 7, 2019.



Judy LaKind, PhD

► **Judy LaKind, PhD**, Adjunct Associate Professor, Department of Epidemiology & Public Health, was among the co-authors of “Factors Affecting Interpretation of National Biomonitoring Data from Multiple Countries: BPA as a Case Study,” which was published in the March 2019 issue of *Environmental Research*.

► **Miriam Laufer, MD**, Professor of Pediatrics, Center for Vaccine Development and Global Health, wrote the commentary “Beyond Birthweight: Benefits and Risks of Preventing Malaria in Pregnancy,” which was published in the *Lancet* on March 22, 2019.



Miriam Laufer, MD

► **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Disease, and **Dilruba Nasrin, MBBS, PhD**, Assistant Professor of Medicine, both from the Center for Vaccine Development and Global Health, were among the authors of “Risk Factors for Death among Children 0–59 Months of Age with Moderate-to-Severe Diarrhea in Manhica District, Southern Mozambique,” which was published in *BMC Infectious Diseases* on April 15, 2019.



Myron Levine, MD, DTPH

► **Kirsten Lyke, MD**, Professor, Department of Medicine, was among the authors of “Beyond Blood Smears: Qualification of *Plasmodium* 18S rRNA as a Biomarker for Controlled Human Malaria Infections,” which was published in the May 2019 issue of the *American Journal of Tropical Medicine and Hygiene*.



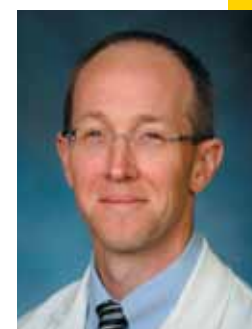
Kirsten Lyke, MD

► **Jay Magaziner, PhD, MSHyg**, Professor and Chair, and **Denise Orwig, PhD**, Associate Professor, both from the Department of Epidemiology & Public Health, were among the co-authors on “Two Approaches to Classifying and Quantifying Physical Resilience in Longitudinal Data,” which was published in the *Journals of Gerontology A: Biological Sciences and Medical Sciences* on April 17, 2019.



Jay Magaziner, PhD, MSHyg

► **Sara Manning, MD**, Assistant Professor, and **Michael Winters, MD, MBA**, Professor, both from the Department of Emergency Medicine, were among the authors of “The Crashing Obese Patient,” which was published in the March 2019 issue of the *Western Journal of Emergency Medicine*.



Michael Winters, MD, MBA

► **Bonnie Marr, MD**, Assistant Professor, Department of Emergency Medicine, was among the co-authors of “The Weight of Pain: What Does a 10 on the Pain Scale Mean? An Innovative Use of Art in Medical Education to Enhance Pain Management,” which was published in the *Journal of Pain and Symptom Management* on March 21, 2019.



Bonnie Marr, MD

► **Amal Mattu, MD**, Professor, Department of Emergency Medicine, was among the co-authors of “An Overview of the Allopathic Match,” which was published in the April 2019 issue of the *The Journal of Emergency Medicine*. In



Amal Mattu, MD

addition, Dr. Mattu was a co-author of the ECG of the Month in the April issue of *Annals of Emergency Medicine*.



Elias Melhem, MD, PhD

► **Elias Melhem, MD, PhD**, Professor and the Dean John M. Dennis Chairman, Department of Diagnostic Radiology & Nuclear Medicine, was last author of “Use of Balanced Steady-State Free Precession Sequences in Evaluation of Drop Metastases,” which was published in the *American Journal of Neuroradiology* on April 25, 2019.

► **Kathleen Neuzil, MD, MPH, FIDSA**, Professor of Medicine and Pediatrics and Director of the Center for Vaccine Development and Global Health (CVD), was

among the authors of “Cost-Effectiveness of Routine and Campaign Use of Typhoid Vi-Conjugate Vaccine in Gavi-Eligible Countries: A Modelling Study,” which was published in *Lancet Infectious Diseases* on May 23, 2019.



Kathleen Neuzil, MD, MPH, FIDSA

► **Anthea Nwandu MD, MPH, FACP**, Assistant Clinical Professor; **David Riedel, MD**, Associate Professor; **Cassidy Classen, MD**, Assistant Professor; all from the Department of Medicine and Institute of Human Virology, were co-authors of “Effectiveness of a Comprehensive 4-Week Course in HIV Medicine for Postgraduate Doctors at University of Nigeria: A Preservice Education Initiative,” which was published in the January 2019 issue of the *Journal of the International Association of Providers of AIDS Care (JIAPAC)*.



Anthea Nwandu MD, MPH, FACP

► **Erin O’Connor, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was first author of “HIV Infection and Age Effects on Striatal Structure are Additive,” which was published in *Journal of NeuroVirology* on April 26, 2019.



Erin O'Connor, MD

► **Robert O’Toole, MD**, Professor, Department of Orthopaedics, was among the co-authors of “Comparison of Dorsal Dermal Fascial Fenestrations with Fasciotomy in an Acute Compartment Syndrome Model in the Foot,” which was published in *Foot & Ankle International* on April 1, 2019.



Robert O’Toole, MD

► **Rekha Rapaka, MD, PhD**, Assistant Professor of Medicine, Center for Vaccine Development and Global Health, was first author of “CD4+ T Cell Regulation of Antibodies Cross-Reactive with Fungal Cell Wall Associated Carbohydrates after *Pneumocystis Murina* Infection,” which was published in *Infection and Immunity* on April 22, 2019.

► **Jill Remick, MD**, Resident; **Elizabeth Nichols, MD**, Assistant Professor; **Mohan Suntha, MD**, the Marlene & Stewart Greenebaum Professorship in Radiation Oncology, President and CEO of the University of Maryland Medical Center; and **William Regine, MD**, Professor and the Isadore & Fannie Schneider Foxman Chair; all from the Department of Radiation Oncology, were among the authors of “Downstream Effect of a Proton Treatment Center on an Academic Medical Center,” which was published in the *International Journal of Radiation Oncology, Biology, Physics* on March 15, 2019.



Elizabeth Nichols, MD

► **Juong Rhee, PhD**, Associate Professor, Department of Radiation Oncology, was among the authors of “Failure of Indomethacin and Radiation to Prevent Blast-Induced Heterotopic Ossification in a Sprague-Dawley Rat Model,” which was published in the March 2019 issue of *Clinical Orthopaedics and Relatic Research*.



Juong Rhee, PhD

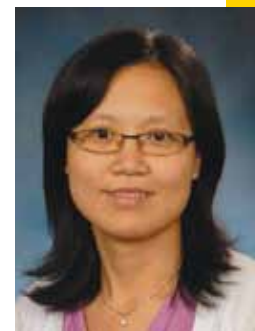
► **Rodney Ritzel, PhD**, Postdoctoral Fellow; **Sarah Doran, MD/PhD** Student; **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (STAR) Center; **Bogdan Stoica, MD**, Associate Professor; and **David Loane, PhD**, Adjunct Associate Professor, all from the



Alan Faden, MD

Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), were co-authors of “Old Age Increases Microglial Senescence, Exacerbates Secondary Neuroinflammation, and Worsens Neurological Outcomes after Acute Traumatic Brain Injury in Mice,” which was published in the May 2019 issue of *Neurobiology of Aging*. In addition, Dr. Ritzel, was lead author of “CD200-CD200R1 Inhibitory Signaling Prevents Spontaneous Bacterial Infection and Promotes Resolution of Neuroinflammation and Recovery after Stroke,” which was published in the *Journal of Neuroinflammation* on February 18, 2019.

► **Steven Roys, MS**, Research Associate; **Jiachen Zhuo, PhD**, Assistant Professor; **Rao Gullapalli, PhD, MBA**, Professor (last author); all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Dynamic Functional Network Analysis in Mild Traumatic Brain Injury,” which was published in *Brain Connectivity* on April 15, 2019. Separately, Dr. Gullapalli along with **Brenda Hanna-Pladdy, PhD**, Associate Professor (first author), Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Functional Magnetic Resonance Imaging Biomarkers Predicting Cognitive Progression in Parkinson Disease: Protocol for a Prospective Longitudinal Cohort Study,” which was published in *JMIR Research Protocols* on April 29, 2019.



Jiachen Zhuo, PhD

► **Horea Rus, MD, PhD**, Professor, and **Alexandru Tatomir, MD**, Postdoctoral Fellow, both from the Department of Neurology, were among the co-authors of “Intracerebral Matrix Metalloproteinase 9 in Fatal Diabetic Ketoacidosis,” which was published in *Experimental Molecular Pathology* on April 12, 2019.



Horea Rus, MD, PhD



Boris Sabirzhanov, PhD

► **Boris Sabirzhanov, PhD**, Assistant Professor; **Yun Li, PhD**, Postdoctoral Fellow; **Junyun He, PhD**, Postdoctoral Research Fellow; **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (STAR) Center; and **Junfang Wu, BM, PhD**, Associate Professor; all from the Department of Anesthesiology and STAR Center, were among the co-authors of “Inhibition of NOX2 Signaling Limits Pain-Related Behavior and Improves Motor Function in Male Mice after Spinal Cord Injury: Participation of IL-10/Mir-155 Pathways,” which was published in *Brain, Behavior, and Immunology* on February 23, 2019.

► **Pouya Sabouri, PhD**, Physics Resident, and **Amit Sawant, PhD**, Associate Professor, both from the Department of Radiation Oncology, were among the authors of “A Novel Deformable Lung Phantom with Programably Variable External and Internal Correlation,” which was published in *Medical Physics* on March 28, 2019.

► **Chinmoy Sarkar, PhD**, Research Associate, Department of Anesthesiology, and **Marta Lipinski, PhD**, Associate Professor, Department of Anesthesiology & the Center for Shock, Trauma and Anesthesiology Research (STAR), were among the co-authors of “Detection and Structural Characterization of Ether Glycerophosphoethanolamine from Cortical Lysosomes Following Traumatic Brain Injury Using UPLC-HDMSE,” which was published in *Proteomics* on February 20, 2019.



Chinmoy Sarkar, PhD

► **Kinjal Sethuraman, MD, MPH**, Assistant Professor, Department of Emergency



Kinjal Sethuraman, MD, MPH

Medicine, was among the authors of “Impact of a Women-Focused Professional Organization on Academic Retention and Advancement: Perceptions from a Qualitative Study,” which was published in the March 2019 issue of *Academic Emergency Medicine*. The same issue contains a research letter written by Dr. Sethuraman and her colleagues, titled “Making Promotion Count: The Gender Perspective.”

► **Eliot Siegel, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Implementing Virtual and Augmented Reality Tools for Radiology Education and Training, Communication, and Clinical Care,” which published in *Radiology* on April 16, 2019.



Eliot Siegel, MD

► **Nevil Singh, PhD**, Assistant Professor, Department of Microbiology and Immunology, co-authored “Mouse T Cells Express a Neurotransmitter-Receptor Signature That is Quantitatively Modulated in a Subset—and Activation-Dependent Manner,” which was published in *Brain, Behavior, and Immunity* on April 3, 2019. In addition, Dr. Singh was among the co-authors of “Eomesodermin Driven IL10 Production in Effector CD8+ T Cells Promotes a Memory Phenotype,” which was published in the January 2019 issue of *Cell Immunology*.



Nevil Singh, PhD

► **James Snider, MD**, Assistant Professor; **Pradip Amin, MD**, Associate Professor; and **Zeljko Vujaskovic, MD, PhD**, Professor; all from the Department of Radiation Oncology, were among the authors of “Radiation and Hyperthermia Combination Therapy for Recalcitrant Verruca Vulgaris,” which was published in *SKINmed Journal* on March 19, 2019.



Pradip Amin, MD

► **Bogdan Stoica, MD**, Associate Professor, Department of Anesthesiology & the Center for Shock, Trauma and Anesthesiology Research (STAR), was among the co-authors of “Iron Accentuated Reactive Oxygen Species Release by NADPH Oxidase in Activated Microglia Contributes to Oxidative Stress in Vitro,” which was published in the *Journal of Neuroinflammation* on February 18, 2019.



Bogdan Stoica, MD

► **Mohan Suntha, MD**, the Marlene & Stewart Greenebaum Professorship in Radiation Oncology, President and CEO of the University of Maryland Medical Center, was among the authors of “Prophylactic Cranial Irradiation vs Observation in Patients with Locally Advanced Non-Small Cell Lung Cancer: A Long-Term Update of the NRG Oncology/RTOG 0214 Phase 3 Randomized



Mohan Suntha, MD

Clinical Trial,” which was published in *JAMA Oncology* on March 14, 2019

► **Julia Thayer**, PhD Student; **Nivedita Hegdekar**, PhD Student; **Chinmoy Sarkar, PhD**, Research Associate; **Marta Lipinski, PhD**, Associate Professor; all from the Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), were among the co-authors of “The PARK10 Gene USP24 is a Negative Regulator of Autophagy and ULK1 Protein Stability,” which was published in *Autophagy* on April 7, 2019.



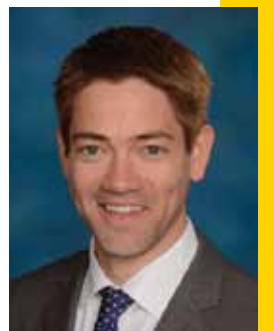
Marta Lipinski, PhD



Matthew Trudeau, PhD

► **Matthew Trudeau, PhD**, Associate Professor, and **Sara Coddig, PhD**, Postdoctoral Fellow, both from the Department of Physiology, were co-authors of “The hERG Potassium Channel Intrinsic Ligand Regulates N- And C-Terminal Interactions and Channel Closure,” which was published in the *Journal of General Physiology* on April 1, 2019.

► **Melissa Vyfhuis, MD, PhD**, Resident; **Jason Molitoris, MD, PhD**, Assistant Professor; and **Pranshu Mohindra, MD, MBBS**, Assistant Professor; all from the Department of Radiation Oncology, were among the authors of “Patterns of Care and Survival in Stage III NSCLC among Black and Latino Patients Compared with White Patients,” which was published in *Clinical Lung Cancer* on February 28, 2019.



Jason Molitoris, MD, PhD



Jacob Wynes, DPM

► **Jacob Wynes, DPM**, Assistant Professor, Department of Orthopaedics, was the author of “Lesser Metatarsal Head with Avascular Necrosis and Revision PIPJ Distraction Arthrodesis,” which was published in *Hammertoes: A Case-Based Approach* by Springer on March 31, 2019.

► **Richard Zhao, PhD**, Professor, Department of Pathology, was the senior and co-corresponding author of “The Roles of prM-E Proteins in Historic and Epidemic Zika Virus-Mediated Infection and Neurotoxicity,” which was published in *Viruses* on February 14, 2019. **Ge Li**, Research Specialist, in the lab of Dr. Zhao, was the co-first author.



Richard Zhao, PhD

Appointments

We applaud our colleagues on their recent appointments!

► The Maryland Proton Treatment Center (MPTC), the only center in Maryland to use proton therapy to treat cancer, has named **Morton Rapoport, MD**, Adjunct Professor, Department of Medicine, and Dr. Harry C. Knipp, two highly regarded members of Maryland’s healthcare and business communities, to its board of directors. Dr. Rapoport served for nearly 20 years as president and CEO of the University of Maryland Medical System (UMMS). Dr. Knipp, a retired radiologist who remains active in the University of Maryland School of Medicine, is a founding member of Advanced Radiology, one of the largest radiology practices in the country.



Morton Rapoport, MD

► **Diane Kuhn, MD, PhD**, Resident, has been named to the editorial board of *Academic Emergency Medicine*, published by the Society for Academic Emergency Medicine (SAEM). During her one-year appointment as a resident member of the board, Dr. Kuhn will attend educational sessions about the peer-review process; write articles for the SAEM membership newsletter as well as a commentary for the journal; and work closely with a mentor, tracking manuscripts through submission, review, and decision.

► **Marcela Pasetti, PhD**, Professor of Pediatrics, Center for Vaccine Development and Global Health, will serve as Chair of the Immunity and Host Defense Study Section, Center for Scientific Review at National Institute of Health (NIH) for a term beginning in July and ending June 2021.



Marcela Pasetti, PhD

Grants & Contracts

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



Wei Chao, MD, PhD, FAHA

► **Wei Chao, MD, PhD, FAHA**, Professor; **Junfang Wu, BM, PhD**, Associate Professor; and **Lin Zou, PhD**, Assistant Professor; all from the Department of Anesthesiology and the Center for Shock, Trauma and Anesthesiology Research (STAR), received a five-year, \$2,549,260 grant (MPI R01) from the National Institute of Neurological Disorders and Stroke (NIH/NINDS) for “Targeting Brain Inflammation and Neurological Dysfunction in Sepsis.”

► **Alan Cross, MD**, Professor of Medicine, Center for Vaccine Development and Global Health, received an extension of \$413,000 for his Astellas grant: “*E. coli* Epidemiology and PSL Study,” now totaling \$7.2 million.

► **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (STAR) Center, along with **David Loane, PhD**, Adjunct Associate Professor and **Bogdan Stoica, MD**, Associate Professor, also from the Department of Anesthesiology and STAR Center, received a five-year, \$291,908 award from the National Institute of Neurological Disorders and Stroke (NINDS/NIH) for “Reprogramming Microglial Epigenetic Pathways to Promote Cognitive Recovery after Brain Trauma.” In addition, Dr. Faden along with **Junfang Wu, BM, PhD**, Associate Professor, also from the Department of Anesthesiology and the STAR Center, received a five-year, \$284,610 R01 award from the National Institute of Neurological Disorders and Stroke (NINDS/NIH) for “Mechanism of Inflammatory Related Brain Dysfunction after Spinal Cord Injury.”

► **Steven Fisher, MD**, Professor, Department of Medicine, received a four-year, \$1,390,500 award from the National Heart, Lung and Blood Institute (NIH/



Steven Fisher, MD



Alan Cross, MD



Junfang Wu, BM, PhD

NHLB) for “Precision Editing of Myosin Phosphatase for Vasodilator Sensitization in Hypertension.”

► **Marcela Pasetti, PhD**, Professor of Pediatrics, Center for Vaccine Development and Global Health, was awarded \$114,000 from Vaxart for “Analysis of Immune Responses to Norwalk Vaccine.”



Charlene Quinn, PhD, RN,

► **Charlene Quinn, PhD, RN**, Associate Professor, Department of Epidemiology & Public Health, received a four-month, \$50,000 award from the Maryland Department of Aging, for “No Wrong Door Business Case Development–Hospital Transitions Project.”



Marcela Pasetti, PhD

► **Shabnam Salimi, MD, MSc**, Research Associate, Department of Epidemiology & Public Health, received a five-year, \$611,091 career award from the National Institutes of Health for “Epigenetic Markers of Multimorbidity Assessment (EMMA) in Humans and Mice.”

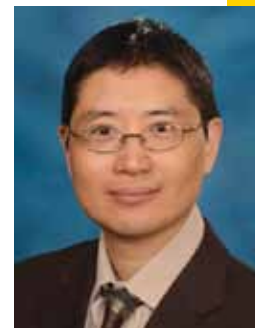


Marcelo Szein, MD

► **Marcelo Szein, MD**, Professor, Department of Pediatrics, was awarded a five-year, \$2.84 million R01 grant from the National Institute of Allergy and Infectious Diseases for (NIH/NIAID) for “Immune Mechanisms of Protection in *S. Typhi* Infection.”

► **Matthew Trudeau, PhD**, Associate Professor, Department of Physiology, received a four-year, \$1,321,001 R01 grant from the National Institute of General Medical Sciences (NIH/NIGMS) for “Regulatory and Functional Mechanisms in hERG Ion Channels.”

► **Huichun Xu, MD, PhD**, Assistant Professor, Department of Medicine, received a three-year, \$230,775 Career Development Award from the American Heart Association (AHA) for “Resistive Training and Functional Genetic Mechanisms of Skeletal Muscle Recovery Post-Stroke.”



Huichun Xu, MD, PhD

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.

OR

You may submit your *Buzz* items online:

<https://umbforms.wufoo.com/forms/z150ub5x10bz167/>

Research Communications Network

Many thanks to the following who serve as your liaison for the information you see in What's the Buzz?

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