



What's the Buzz?

AUGUST 2020 VOL.22 NO.7

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!

► The **Department of Emergency Medicine** hosted a half-day Alumni Week conference on May 6, 2020, featuring past residents and current faculty presenting on various topics related to COVID-19 from their respective locations. Lecture topics included:

- COVID-19 Update: What We Know as of May 6, 2020
 - COVID 19: Update from NYC
 - International COVID-19 Update from the Netherlands, Japan, and Pakistan
 - Skin Findings in COVID
 - Lung Ultrasound in COVID
 - Pediatric COVID Update
 - Critical Care COVID Update
 - COVID EMS Update

► **Marianne Cloeren, MD, MPH**, Associate Professor, Department of Medicine, presented a lecture to a



Marianne Cloeren, MD, MPH

national audience on June 10, 2020 for the American College of Occupational and Environmental Medicine's (ACOEM) Safely Returning to Work: A Virtual Symposium. The topic of her talk was "Tracking Employee Exposure to COVID-19."

► **Natalie Davis, MD, MMSc**, Assistant Professor, Department of Pediatrics, was an invited speaker for the "LiveSavers National Conference on Highway Safety Priorities" on June 9, 2020. She presented her research on child passenger safety for preterm neonates in a talk titled "Is It OK to Be Little? How Can You Be Sure I Am Safe?"

► **Martin Flajnik, PhD**, Professor, Department of Microbiology & Immunology, was a guest lecturer for a seminar at Washington University in St. Louis, Department of Immunology, titled "Origins of Antigen Presentation" on February 17, 2020.



Martin Flajnik, PhD

New Faculty

We welcome our new faculty!

► **Michael Alan Brock, MD**, joined the Department of Pediatrics in July 2020. Dr. Brock obtained his MD from the Medical College of Georgia. He completed a Residency in Pediatrics, a Pediatric Cardiology Fellowship, and a Pediatric Cardiac Critical Care Medicine Fellowship at the University of Florida at Orlando Health.

► **Ericka Davies, PhD**, joined the Department of Pediatrics in April 2020. Dr. Davies obtained her PhD at Uniformed Services University of the Health Sciences. She has completed Postdoctoral Fellowships at Uniformed Services University and at the National Institute of Health.

► **Nisha Divakaruni, MD**, joined the Department of Pediatrics in July 2020. Dr. Divakaruni obtained her MD and completed her Residency in Pediatrics at the University of Maryland School of Medicine.

► **Megan Fox, PhD**, joined the Department of Anatomy and Neurobiology as an Assistant Professor in April 2020. Dr. Fox received her PhD from the University of North Carolina at Chapel Hill in 2016, after which she joined the laboratory of **Mary Kay Lobo, PhD**, Professor, Department of Anatomy and Neurobiology, as a postdoctoral fellow. Dr. Fox's research focuses on neuroadaptations in psychiatric illness at the cellular, molecular, and circuit level. Her work is currently funded by a K99/R00 award from the National Institute on Drug Abuse.

► **Jennifer Hong, MD, MPH**, joined the Department of Pediatrics in July 2020. Dr. Hong obtained her MD and completed a Pediatric

Residency as well as a Fellowship in Pediatric Gastroenterology at the University of Maryland School of Medicine.

► **Vandana Racherla, MD**, joined the Department of Pediatrics as an Assistant Professor in July 2020. Dr. Racherla obtained her MD from Drexel University College of Medicine, and completed an Internship and Residency in Pediatrics at the University of Maryland School of Medicine.

► **Anikita Taneja, MBBS, MPH**, joined the Department of Pediatrics in July 2020. Dr. Taneja obtained her Bachelor of Medicine, Bachelor of Surgery from B.P. Koirala Institute of Health Sciences, Nepal in 2009. She obtained her MPH from Johns Hopkins Bloomberg School of Public Health and completed a Pediatric Residency at University of Florida College of Medicine. She followed this with a Fellowship in Pediatric Emergency Medicine at University of Florida College of Medicine.

► **Junliang Xu, PhD**, joined the Department of Radiation Oncology as an Assistant Professor in the Division of Medical Physics in July 2020. He comes to Maryland from the Fox Chase Cancer Center, Philadelphia, Pa., where he completed his three-year Medical Physics Residency. His research interests are in radiation dose delivery optimization for rotating gamma systems, 2D-array dosimetry for patient-specific plan verification, and clonogenic assay of normal cell lines treated by pulsed low-dose-rate radiotherapy.



Junliang Xu, PhD

In the News

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

► **David Marcozzi, MD**, Associate Professor, Department of Emergency Medicine, was featured in a *Baltimore Business Journal* article, "Turns Out, Baltimore's Field Hospital had a Lot More Capacity than was Needed—So Far," which was published on June 2, 2020.



David Marcozzi, MD



Feyruz Rassool, PhD

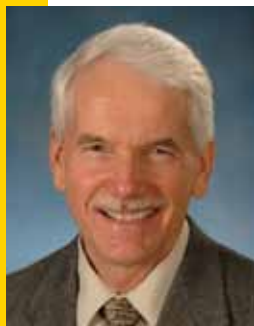
Patents

We applaud the innovators among us!

- **Feyruz Rassool, PhD**, Professor, Department of Radiation Oncology, received a European patent for “Therapy Regimen and Methods to Sensitize Cancer Cells Treated with Epigenetic Therapy to PARP Inhibitors to Ovarian Cancer” (UMB Docket Number: FR-2013-075 (EP).

Grants & Contracts

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



Eugene Albrecht, PhD

- **Eugene Albrecht, PhD**, Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, received a five-year, \$3,506,350 grant from the National Institute of Health for “Estrogen Regulation of Fetal Microvessel Development During Primate Pregnancy: Impact on Insulin Sensitivity in Offspring.”

- **Tracy Bale PhD**, Professor, Department of Pharmacology and Director, Center for Epigenetic Research in Child Health and Brain Development, received a five-year, \$3,394,308

R37 MERIT award from the National Institute of Mental Health (NIH/NIMH) for “Paternal Stress and Epigenetic Programming of Offspring Neurodevelopment.”



Tracy Bale, PhD

- **L. Latéy Bradford, MD, PhD**, Resident, was selected by the American Academy of Family Physicians Foundation to receive a 2020 Family Medicine Cares Resident Service Award for her service project, “Queens Court: A Postpartum Education and Support Group Designed to Empower and Facilitate Wellness in Women of Color.” This \$16,500 award provides support for direct project costs, funding to the University Family Medicine Clinic and a travel award for Dr. Bradford to attend the 2021 National Conference of Family Medicine Residents and Students to present the results of the project.



L. Latéy Bradford, MD, PhD

- **Linda Chang, MD, MS, and Thomas Ernst, Dr rer nat**, both Professors from the Department of Diagnostic Radiology and Nuclear Medicine, and PIs of UMB’s site of the landmark Adolescent Brain Cognitive Development (ABCD) study were awarded a seven-year, \$13,098,568 grant renewal.

- **Yasmine Cissé PhD**, Postdoctoral Fellow, Department of Pharmacology, Center for Epigenetic Research in Child Health and Brain Development, received a three-year, \$202,062 F32 NRSA from the Eunice Kennedy Shriver National Institute of Child Health & Human Development (NIH/NICHD) for “Programmatic Role of Maternal Preconception Stress on Offspring Metabolic Health.”



Linda Chang, MD, MS

- **Deeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology and Nuclear Medicine was awarded \$347,880 from the Focused Ultrasound Foundation for “MR Guided FUS of Thalamus (Central Lateral Thalamotomy) for Treatment of Trigeminal Neuralgia: Feasibility and Safety Study.”



Dheeraj Gandhi, MBBS

- **Eldin Jašarevic, PhD**, Research Associate, Department of Pharmacology, and Associate Director of Research Bioinformatics, Center for Epigenetic Research in Child Health and Brain Development, received a four-year, \$528,096 K01 grant from the National Institute of Diabetes and Digestive and Kidney Diseases (NIH/NIDDK) for “Immune and Developmental Actions of the Maternal Microbial Metabolites on the Hypothalamus.”



Xiaofeng Jia, BM, PhD

- **Xiaofeng Jia, BM, PhD**, Professor, Department of Neurosurgery, received a two-year, \$345,000 grant from the Maryland Stem Cell Research Fund (MSCRF) Discovery Program for “Developing Human iPSC-Derived Exosome Therapy to Improve Recovery after Peripheral Nerve Injury.”

- **Mary Kay Lobo, PhD**, Professor, Department of Anatomy and Neurobiology, and **Seth Ament, PhD**, Assistant Professor, Department

of Psychiatry, Institute for Genome Sciences, along with a colleague at State University of New York at Buffalo, received a \$1,823,772 grant from the National Institute of Drug Abuse (NIH/NIDA) for “Heroin-Induced Fenomic Regulation of Ventral Pallidum Neuron Subtypes.”



Mary Kay Lobo, PhD

- **Arezoo Modiri, PhD**, Assistant Professor, Department of Radiation Oncology, received a \$206,049 grant from the Sponsored Research Agreement with Varian Medical Systems for “Risk-Model-Based Radiotherapy Treatment Planning to Optimize Individual Overall Survival.”



Arezoo Modiri, PhD

- **Jean-Pierre Raufman, MD**, Professor, Department of Medicine, received a five-year, \$2,103,549 grant

from the National Institute of Diabetes, Digestive and Kidney Diseases (NIH/NIDDK) for renewal of a T32 program “Research Training in Gastroenterology and Hepatology.”



Jean-Pierre Raufman, MD

- **Zeljko Vujaskovic, MD, PhD**, Professor, Department of Radiation Oncology, received a five-year, \$12,239,361 award from the National Institute of Allergy and Infectious Diseases (NIH/NIAID) for “Intercollaborative Radiation Countermeasure (INTERACT) Consortium for Advanced Development of Medical Countermeasures to Mitigate/Treat Acute and Delayed Radiation Syndromes.” As part of the award, the University of Maryland School



Zeljko Vujaskovic, MD, PhD

of Medicine becomes a member of the NIAID Centers for Medical Countermeasures Against Radiation Consortium.

- **Junfang Wu, BM, PhD**, Associate Professor, Department of Anesthesiology, along with Long-Jun Wu, PhD, from Mayo Clinic, received a five-year, \$2,392,596 R01 grant from the National Institute of Neurological Disorders and Stroke (NIH/NINDS) for “The Function and Mechanisms of Voltage-Gated Proton Channel Hv1 in Spinal Cord Injury.”

- **Peixin Yang, PhD**, Professor, Department of Obstetrics, Gynecology & Reproductive Sciences, was awarded a five-year, \$2.56 million R01 renewal for “Autophagy and Its Regulation in Diabetic Embryopathy.”

Publications

Hats off to those who have been published!



Zubair Ahmed, PhD

► **Zubair Ahmed, PhD**, Professor, and **Saima Riazuddin, PhD, MPH, MBA**, Professor, both from Department of Otorhinolaryngology Head and Neck Surgery, were among the co-authors of “Molecular Characterization of SLC24A5 Variants and Evaluation of Nitisinone Treatment Efficacy in a Zebrafish Model of OCA6,” which was published in the July 2020 issue of *Pigment Cell Melanoma Research*.

► **Eugene Albrecht, PhD**, Professor, Department of Obstetrics, Gynecology and Reproductive Sciences, was among the authors of “Regulation of Uterine Spiral Artery Remodeling,” which was published in the June 2020 issue of *Reproductive Sciences*. Separately, Dr. Albrecht, was featured in “Bare Benches: Research During the COVID19 Outbreak,” which appeared in the May 2020 issue of *Endocrine News*, a publication of the Endocrine Society.

► **Omer Awan, MD, MPH**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was last author of “Overcoming Challenges for Successful PACS Installation in Low-Resource Regions: Our Experience in Nigeria,” which was published in the *Journal of Digital Imaging* on June 3, 2020, and “Social Media in Radiology: Overview and Usefulness of Online Professional #SoMe Profiles,” which was published in *Academic Radiology* on May 29, 2020.



Tracy Bale, PhD

► **Tracy Bale, PhD**, Professor, Department of Pharmacology, and Director, Center for Epigenetic Research in Child Health and Brain Development (CERCH), and **Yasmine Cissé PhD**, Postdoctoral Fellow, also from the Department of Pharmacology and CERCH, were authors of “Brain and Placental Transcriptional Responses as a Readout of Maternal and Paternal Preconception Stress Are Fetal Sex Specific,” which was published in *Placenta* on July 2, 2020.

► **Aditi Banerjee, PhD**, Assistant Professor; **Steven Czinn, MD**, Professor; and **Thomas Blanchard, PhD**, Associate Professor, all from the Department of Pediatrics, were among the co-authors of “Crosstalk Between Endoplasmic Reticulum Stress and Anti-Viral Activities: A Novel Therapeutic Target for COVID-19,” which was published in *Life Sciences* on August 15, 2020.

► **Eli Bar, PhD**, Associate Professor, Department of Pathology, was among the authors of “Spatial Enrichment of Cellular States in Glioblastoma,” which was published in *Acta Neuropathologica* on July 1, 2020.



Maureen Black, PhD

► **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, and **Angela Trude, PhD**, Postdoctoral Fellow, also from the Department of Pediatrics, published a commentary, “All Children Surviving and Thriving: Re-Envisioning UNICEF’s Conceptual Framework of Malnutrition,” which was published in June 2020 Editorial Pick in *The Lancet Global Health*.

► **Michael Bond, MD, FACEP, FAAEM**, Associate Professor, and **Amal Mattu, MD**, Professor, both from Department of Emergency Medicine, were among the authors of “Designing the Third- and Fourth-Years Clerkship Schedule,” which was published in *Journal of Emergency Medicine* on January 13, 2020.



Eugene Albrecht, PhD

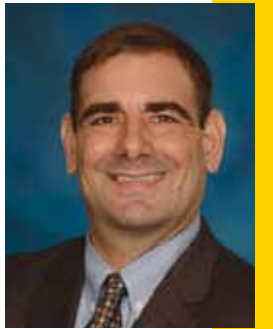


Aditi Banerjee, PhD



Michael Bond, MD, FACEP, FAAEM

► **Vincent Bruno, PhD**, Associate Professor, Department of Microbiology & Immunology, Institute for Genome Sciences, was among the co-authors of “GRP78 and Integrins Play Different Roles in Host Cell Invasion during Mucormycosis,” which was published in *mBio* on June 2, 2020. Dr. Bruno also co-authored “Oral Epithelial IL-22/STAT3 Signaling Licenses IL-17-Mediated Immunity to Oral Mucosal Candidiasis,” which was published in *Science Immunology* on June 5, 2020.



Vincent Bruno, PhD



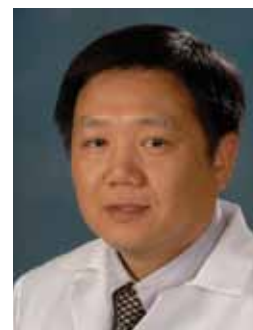
Donna Calu, PhD

► **Donna Calu, PhD**, Assistant Professor, and **David Martin, PhD**, Postdoctoral Fellow, both from the Department of Anatomy and Neurobiology, were senior and lead authors, respectively, of “Effects of 5-HT 2A Receptor Stimulation on Economic Demand for Fentanyl after Intermittent and Continuous Access Self-Administration in Male Rats,” which was published in *Addiction Biology* on May 26, 2020.

► **Qi Cao, BM, PhD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Imaging Assisted Evaluation of Antitumor Efficacy of a New Histone Deacetylase Inhibitor in the Castration-resistant Prostate Cancer,” which was published in the *European Journal of Nuclear Medicine and Molecular Imaging* on June 26, 2020.



Qi Cao, BM, PhD



Wengen Chen, MD, PhD

► **Wengen Chen, MD, PhD**, Professor, and **Vasken Dilsizian, MD**, Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, published an editorial comment titled “Molecular Imaging of Amyloid Deposits for Early Diagnosis of Cardiac Amyloidosis and Monitoring Treatment Response,” which was published in the May 2020 issue of the *Journal of the American College of Cardiology: Cardiovascular Imaging*.

► **Chengyan Chu, MD**, and **Xiaoyan Lan, MD**, both Postdoctoral Fellows; **Anna Jablonska, PhD**, Research Associate; **Mirosław Janowski, MD, PhD**, Associate Professor; and **Piotr Walczak, MD, PhD**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “Neuroinflammation Following Stereotactic Radiosurgery-Induced Brain Tumor Disintegration Is Linked to Persistent Cognitive Decline in a Mouse Model of Metastatic Disease,” which was published in the *International Journal of Radiation Oncology, Biology, Physics* on May 26, 2020.



Mirosław Janowski, MD, PhD

► **Elizabeth Clayborne, MD**, Adjunct Assistant Professor, Department of Emergency Medicine, authored “Pregnant on the Frontlines,” which was published in *Emergency Physicians Monthly* on June 1, 2020.

► **Natalie Davis, MD, MMSc**, Associate Professor, Department of Pediatrics, Division of Neonatology, was the first author of “Variation in Car Seat Tolerance Screen Performance in Newborn Nurseries,” which was published in the July 2020 issue of the *Journal of Pediatrics*.

► **Zachary Dezman, MD**, Assistant Professor, Department of Emergency Medicine, was among the authors of “Maryland Emergency Department Drug Surveillance (EDDS) System Illustrates the Need for Hospitals to Update Their Toxicology Panels to Include Fentanyl and Other Emerging Substances,” which was accepted for publication in *Morbidity and Mortality Weekly Report* on May 28, 2020.



Zachary Dezman, MD



Vasken Dilsizian, MD

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was a co-author of “Safe Reintroduction of Cardiovascular Services during the COVID-19 Pandemic: Guidance from North American Societies,” which was co-published in the April 2020 issue of the *Journal of the American College of Cardiology*, *Canadian Journal of Cardiology* and the *Annals of Thoracic Surgery*. Separately, Dr. Dilsizian, was a co-author of “Cardiac Imaging in the Post ISCHEMIA Trial Era—A Multi Society Viewpoint,” which was published in the May 2020 issue of the *Journal of the American College of Cardiology*. Separately, Dr. Dilsizian, was a co-author of “Guidance and Best Practices for Nuclear Cardiology Laboratories During the Coronavirus Disease 2019 (COVID-19) Pandemic: An Information Statement from ASNC and SNMMI,” which was co-published in the May 2020 issue of the *Journal of Nuclear Cardiology* and the *Journal of Nuclear Medicine*. Dr. Dilsizian, was also the senior author on “Impact of the ISCHEMIA Trial on Stress Nuclear Myocardial Perfusion Imaging,” which was published in the June 2020 issue of the *Journal of Nuclear Medicine*.

► **Michel Engeln, PhD**, Research Associate, and **Mary Kay Lobo, PhD**, Associate Professor, both from the Department of Anatomy and Neurobiology, along with **Ronna Hertzano, MD, PhD**, Associate Professor, Department of Otorhinolaryngology Head and Neck Surgery Institute for Genome Sciences, were among the authors of “Individual Differences in Stereotypy and Neuron Subtype Translatome with TrkB Deletion,” which was published in *Molecular Psychiatry* on May 4, 2020.



Mary Kay Lobo, PhD



Victor Frenkel, PhD

► **Victor Frenkel, PhD**, Associate Professor, and Director of Translational Focused Ultrasound Research, and **Ali Mohammadabadi, PhD**, Postdoctoral Fellow, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Pulsed Focused Ultrasound Lowers Interstitial Fluid Pressure and Increases Nanoparticle Delivery and Penetration in Head and Neck Squamous Cell Carcinoma Xenograft Tumors,” which was published in *Physics in Medicine and Biology* on June 22, 2020.

► **Matthew Frieman, PhD**, Associate Professor; **Stuart Weston, PhD**, Research Fellow; **James Logue**, Graduate Research Assistant; and **Robert Haupt**, all from the Department of Microbiology & Immunology, were among the authors of “High-Throughput Effort Using Both Humanized Mice and Convalescent Humans Yields SARS-Cov-2 Antibody Cocktail,” which was published in the June 2020 issue of *Science*.



Matthew Frieman, PhD

► **Durga Sivacharan Gaddam, MD**, Resident, and **Omer Awan, MD, MPH**, Associate Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, co-authored “Back to the Future: Shortcomings of an Archaic Model for Radiology Lectures,” which was published in the July–August 2020 issue of *Radiographics*.

Separately, Dr. Awan was last author of “Artificial Intelligence-Based Clinical Decision Support Systems Using Advanced Medical Imaging and Radiomics,” which was published in the June 2020 issue of *Current Problems in Diagnostic Radiology*.

► **Ronna Hertzano, MD, PhD**, Associate Professor, Department of Otorhinolaryngology Head and Neck Surgery, Institute for Genome Sciences, was among the co-authors of “Characterization of the Development of the Mouse Cochlear Epithelium at the Single Cell Level,” which was published in



Ronna Hertzano, MD, PhD

Nature Communications on May 13, 2020, and highlighted in a press release by the National Institute on Deafness and Other Communication Disorders. (<https://www.nidcd.nih.gov/news/2020/study-charts-developmental-map-of-inner-ear-sound-sensor-in-mice>)

► **Rydhwana Hossain, MD**, Assistant Professor (first author), and **Charles White, MD**, Professor (last author), both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “CT Scans Obtained for Nonpulmonary Indications: Associated Respiratory Findings of COVID-19,” which was published in the May 2020 issue of *Radiology*. Separately, Drs. Hossain and White were among the co-authors of “COVID-19 Diagnostic Imaging Recommendations,” which was published in the May 2020 issue of *Applied Radiology*.



Charles White, MD

► **Kazi Hoque, PhD**, Research Associate; **Eryn Dixon**, Student; **Victoria Halperin Kuhns, PhD**, Postdoctoral Fellow; and **Owen Woodward, PhD**, Assistant Professor, all from the Department of Physiology, were among the co-authors of “The ABCG2 Q141K Hyperuricemia and Gout Associated Variant Illuminates the Physiology of Human Urate Excretion,” which was published in *Nature Communications* on June 2, 2020.



Owen Woodward, PhD



Amal Isaiah, MBBS, DPhil

► **Amal Isaiah, MBBS, DPhil**, Assistant Professor, Department of Otorhinolaryngology Head and Neck Surgery, was the author of “Predicting Polysomnographic Severity Thresholds in Children Using Machine Learning,” which was published in the May 2020 issue of *Pediatric Research*.

► **Miroslaw Janowski, MD, PhD**, Associate Professor (last author), and **Piotr Walczak, MD, PhD**, Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Mesenchymal Stem Cells Injected into Carotid Artery to Target Focal Brain Injury Home to Perivascular Space,” which was published in *Theranostics* on May 17, 2020. Separately, Drs. Janowski and Walczak also were among the co-authors of “Methacrylated Gellan Gum and Hyaluronic Acid Hydrogel Blends for Image-guided Neurointerventions,” which was published in the *Journal of Materials Chemistry B* on June 16, 2020.



Piotr Walczak, MD, PhD

► **Jean Jeudy, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the authors of “Imaging Modalities to Delineate Sequelae of Spontaneous Coronary Artery Dissection Managed with Percutaneous Coronary Intervention,” which was published in *Cureus* on April 8, 2020.



Xiaofeng Jia, BM, PhD

► **Xiaofeng Jia, BM, PhD**, Professor (corresponding author); **Xiang Xu, MD, PhD**, Postdoctoral Fellow (first author); and co-author **Thomas Mee**, Medical Student, all from the Department of Neurosurgery, were authors of “New Era of Optogenetics: From the Central to Peripheral Nervous System,” which was published in the February 2020 issue of *Critical Reviews in Biochemistry and Molecular Biology*.

► **Gaurav Jindal, MD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Transport Blood Pressures and Outcomes in Stroke Patients



Gaurav Jindal, MD

Requiring Thrombectomy,” which was published in the May-June 2020 issue of *Air Medical Journal*.

► **Danya Khoujah, MBBS**, Adjunct Assistant Professor, Department of Emergency Medicine, was the lead author of “The Geriatric Emergency Literature 2019,” which was published in *American Journal of Emergency Medicine* on May 17, 2020.

► **Hua Jun Liang, MBBS, PhD**, Postdoctoral Fellow (first author); **Thomas Ernst, Dr rer nat**, Professor; and **Linda Chang, MD, MS**, Professor (last author), all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “Striatal and White Matter Volumes in Chronic Ketamine Users with or without Recent Regular Stimulant Use,” which was published in the May 2020 issue of *Drug and Alcohol Dependence*. Also, Drs. Chang and Ernst were among the authors of “Associations Between Body Weight, Hippocampal Volume, and Tissue Signal Intensity In 12- to 18-Year-Olds,” which was published in *Obesity (Silver Spring)* on June 5, 2020. Separately, Dr. Chang and **Christine Cloak, PhD**, Assistant Professor, also from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Reciprocal Influences of HIV and Cannabinoids on the Brain and Cognitive Function,” which was published in the *Journal of Neuroimmune Pharmacology* on May 22, 2020.



Alberto Macario, MD

► **Alberto Macario, PhD**, Adjunct Professor, and **Everly Conway de Macario**, Adjunct Professor, both from Department of Microbiology & Immunology, co-authored “Does SARS-CoV-2 Trigger Stress-Induced Autoimmunity by Molecular Mimicry? A Hypothesis,” which was published in the *Journal of Clinical Medicine* on June 29, 2020.

► **Javed Mahmood, PhD**, Assistant Professor, Department of Radiation Oncology, was the first author of “A Combination of Radiotherapy, Hyperthermia, and Immunotherapy Inhibits Pancreatic Tumor Growth and Prolongs the Survival of Mice,” which was published in the April 2020 issue of *Cancers*. Separately, Dr. Mahmood, was the first author of “RhoA/ROCK Pathway Inhibitor Ameliorates Erectile Dysfunction Induced by Radiation Therapy in Rat,” which was published in the June 2020 issue of *Radiotherapy and Oncology Journal*.



Javed Mahmood, PhD

► **Natallia Makarava**, Research Associate; **Jennifer Chen-Yu Chang**, Lab Research Technician; **Kara Molesworth**, Lab Research Specialist; and **Iliia Baskakov, PhD**, Professor, all from the Department of Anatomy and Neurobiology and the Center for Biomedical Engineering and Technology (BioMET), were authors of “Posttranslational Modifications Define Course of Prion Strain Adaptation and Disease Phenotype,” which was published in the *Journal of Clinical Investigation* on June 2, 2020.



Iliia Baskakov, PhD



Rena Malik, MD

► **Rena Malik, MD**, Assistant Professor, Department of Surgery, was a senior author of “A Systematic Review of Best Practices for the Perioperative Management of Abdominal Sacrocolpopexy,” which was published in *Neurology and Urodynamics* on May 29, 2020.

► **Amal Mattu, MD**, Professor, Department of Emergency Medicine, was among the authors of:

- “Lay Responder Care for an Adult with Out-of-Hospital Cardiac Arrest: Author Reply to Letter to the Editor,” which was published in the *New England Journal of Medicine* on March 26, 2020.



Amal Mattu, MD

- “Management of Acute Myocardial Infarction During the COVID-19 Pandemic,” a consensus statement published on behalf of the Society for Cardiovascular Angiography and Interventions, the American College of Cardiology, and the American College of Emergency Physicians in *Catheterization and Cardiovascular Interventions* on April 17, 2020, and in the *Journal of the American College of Cardiology* on April 20, 2020.

► **Andrea Meredith, PhD**, Professor; **Jenna Harvey, PhD**, Research Associate; and **Amber Plante**, Graduate Student, all from the Department of Physiology, published the invited review “Ion Channels Controlling Circadian Rhythms in Suprachiasmatic Nucleus Excitability,” in the October 2020 issue of *Physiological Reviews*.



Andrea Meredith, PhD

► **Timothy Miller, MD**, Associate Professor; **Dheeraj Gandhi, MBBS**, Professor; and **Gaurav Jindal, MD**, Associate Professor (last author), all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “A Critical Assessment of the Golden Hour and the Impact of Procedural Timing in Stroke Thrombectomy,” which was published in the May 2020 issue of the *American Journal of Neuroradiology*. Separately, Dr. Gandhi was among the co-authors of “Implications of Achieving TIC1 2b vs TIC1 3 Reperfusion in Patients with Ischemic Stroke: A Cost-effectiveness Analysis,” which was published in the May 2020 issue of the *Journal of Neurointerventional Surgery*.



Dheeraj Gandhi, MBBS

► **Emmanuel Mongodin, PhD**, Associate Professor, Department of Microbiology & Immunology, Institute for Genome Sciences, was among the co-authors of “Mentholation Triggers Brand-Specific Shifts in the Bacterial Microbiota of Commercial Cigarette Products,” which was published in *Applied Microbiology and Biotechnology* on May 24, 2020.



Emmanuel Mongodin, PhD

► **Christopher Morgan, PhD**, Lead Research Project Coordinator and Associate Director of Epigenetic Research, Center for Epigenetic Research in Child Health and Brain Development (CERCH); **Yasmine Cissé, PhD**, Postdoctoral Fellow; **Kathleen Morrison, PhD**, Postdoctoral Fellow; **Eldin Jašarevic, PhD**, Research Associate and Associate Director of Research Bioinformatics, CERCH; **Nickole Kanyuch**, Graduate Research Assistant; and **Tracy Bale, PhD**, Professor, Department of Pharmacology and Director, CERCH, all from the Department of Pharmacology and CERCH; along with **Weiliang Huang, PhD**, Postdoctoral Fellow, and **Maureen Kane, PhD**, Associate Professor and Director, Mass Spectrometry Center, both from the School of Pharmacy; and **Seth Ament, PhD**, Department of Psychiatry, and **Amol Shetty, PhD**, Lead Bioinformatics Software Engineer, both members of the Institute for Genome Science, were authors of “Reproductive Tract Extracellular Vesicles Are Sufficient to Transmit Intergenerational Stress and Program Neurodevelopment,” which was published in *Nature Communications* on March 20, 2020.



Eldin Jasarevic, PhD

► **Andrew Neuwald, PhD**, Professor, Department of Biochemistry & Molecular Biology, Institute for Genome Sciences, was first author of “Obtaining Extremely Large and Accurate Protein Multiple Sequence Alignments from Curated Hierarchical Alignments,” which was published in *Database (Oxford)* on June 5, 2020.

► **Chiara Orlandi, PhD**, Research Associate, Department of Medicine, Institute of Human Virology,



Andrew Neuwald, PhD



Chiara Orlandi, PhD

was the first author of “Antigen-Induced Allosteric Changes in a Human IgG1 Fc Increase Low-Affinity Fcγ Receptor Binding,” which was published in *Structure* on March 24, 2020.

► **Thomas Ptak, MD, PhD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the authors of “ACR Appropriateness Criteria® Suspected Upper Extremity Deep Vein Thrombosis,” which was published in the May 2020 issue of the *Journal of the American College of Radiology*, and “ACR Appropriateness Criteria® Major Blunt Trauma,” which was published in the May 2020 issue of the *Journal of the American College of Radiology*.

► **David Rasko, PhD**, Professor, Department of Microbiology & Immunology, Institute for Genome Sciences, was among the co-authors of “Comparative Genomic Analysis Provides Insight into the Phylogeny and Virulence of Atypical Enteropathogenic *Escherichia Coli* Strains from Brazil,” which was published in *PLoS Neglected Tropical Diseases* on June 1, 2020.



David Rasko, PhD

► **Jacques Ravel, PhD**, Professor, Department of Microbiology & Immunology, Associate Director, Genomics, Institute for Genome Sciences, was a senior author of “Complete Genome Sequences of Six *Lactobacillus iners* Strains Isolated from the Human Vagina,” which was published in *Microbial Resource Announcement* on May 14, 2020.



Jacques Ravel, PhD

► **Dana Roque, MD**, Assistant Professor, Department of Obstetrics, Gynecology, and Reproductive Sciences, was among the co-authors of “Randomized Phase II Trial of Carboplatin-Paclitaxel Compared With Carboplatin-Paclitaxel-Trastuzumab in Advanced (Stage III-IV) or Recurrent Uterine Serous Carcinomas That Overexpress Her2/Neu (NCT01367002): Updated Overall Survival Analysis,” which was published in *Clinical Cancer Research* on June 29, 2020.



Dana Roque, MD

► **Lynn Schriml, PhD**, Associate Professor, Department of Epidemiology & Public Health, Institute for Genome Sciences, was a first author on “COVID-19 Pandemic Reveals the Peril of Ignoring Metadata Standards,” which was published in *Nature Scientific Data* on June 19, 2020.



Lynn Schriml, PhD

► **David Serre, PhD**, Associate Professor (senior author), and **Matthew Cannon, PhD**, Research Associate, both from the Department of Microbiology and Immunology, Institute for Genome Sciences, were among the co-authors of “(2020) Single-Cell Transcription Analysis of *Plasmodium Vivax* Blood-Stage Parasites Identifies Stage—and Species-Specific Profiles of Expression,” which was published in *PLoS Biology* on May 4, 2020.

► **Eliot Siegel, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the authors of “Radiology’s Information Architecture Could Migrate to One Emulating That of Smartphones,” which was published in the May 2020 issue of the *Journal of the American College of Radiology*.



Eliot Siegel, MD

► **Gentry Wilkerson, MD**, Assistant Professor; **Jason Adler, MD**, Clinical Assistant Professor; and **Robert Brown, MD**, Resident, all from the Department of Emergency Medicine, were among the authors of “Silent Hypoxia: A Harbinger of Clinical



Gentry Wilkerson, MD

Deterioration in Patients with COVID-19,” which was published in the *American Journal of Emergency Medicine* on May 21, 2020.

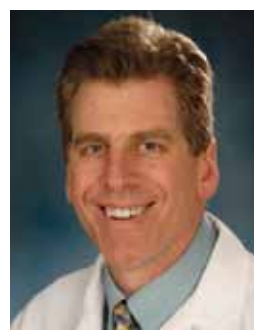
► **Andrew Windsor, MD**, Assistant Professor, and **Semhar Tewelde, MD**, Assistant Professor, both from the Department of Emergency Medicine, were the lead authors of “An Odontoid Fracture and Vertebral Artery Injury in Fast-Track,” which was published in *Clinical Case Reports* on May 25, 2020.



Michael Winters, MD

► **Michael Winters, MD**, Professor; **Amal Mattu, MD**, Professor; and **Michael Bond, MD, FACEP, FAAEM**, Associate Professor, all from the Department of Emergency Medicine, were among the authors of “Clerkships in Emergency Medicine,” which was published in *Journal of Emergency Medicine* on January 5, 2020. Separately, Dr. Winters, was among the discussants in the twice-monthly podcast, *Critical Care Perspectives in Emergency Medicine*, episodes:

- “COVID-19: Toxicities of Potential Therapies,” published on May 13, 2020
- “HFNC [High-Flow Nasal Cannula] in COVID-19 Patients—Helpful or Harmful?” published on May 26, 2020



Michael Witting, MD

► **Michael Witting, MD**, Professor; **Kami Hu, MD**, Clinical Assistant Professor; **Semhar Tewelde, MD**, Assistant Professor; and **Amal Mattu, MD**, Professor, all from the Department of Emergency Medicine, were among the authors of “Evaluation of Spodick’s Sign and Other Electrocardiographic Findings as Indicators of STEMI [ST-Segment Elevation Myocardial Infarction] and Pericarditis,” which was published in the *Journal of Emergency Medicine* on March 25, 2020.

► **Jade Wong-You-Cheong, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the authors of “ACR Appropriateness Criteria® Hematuria,” which was published in the May 2020 issue of the *Journal of the American College of Radiology*.



Junfang Wu, BM, PhD

► **Junfang Wu, BM, PhD**, Associate Professor, Department of Anesthesiology, was the corresponding author of “Sustained Neuronal and Microglial Alterations Are Associated with Diverse Neurobehavioral Dysfunction Long after Experimental Brain Injury,” which was published in the June 2020 issue of *Neurobiology of Disease*.

► **Su Xu, PhD**, Associate Professor, and **Rao Gullapalli, PhD, MBA**, Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “Nicotinamide Mononucleotide Administration Prevents Experimental Diabetes-Induced Cognitive Impairment and Loss of Hippocampal Neurons,” which was published in the *International Journal of Molecular Sciences* on May 26, 2020. Separately, Drs. Xu and Gullapalli (last author), along with **Jiachen Zhuo, PhD**, Assistant Professor, also from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Postnatal Guinea Pig Brain Development, As Revealed by Magnetic Resonance and Diffusion Kurtosis Imaging,” which was published in the June 2020 issue of *Brain Sciences*. In addition, Dr. Gullapalli was among the co-authors of “Vitamin D, Folate, and Cobalamin Serum Concentrations Are Related to Brain Volume and White Matter Integrity in Urban Adults,” which was published in the May 2020 issue of *Frontiers in Aging Neuroscience*.



Semhar Tewelde, MD



Su Xu, PhD

Honors & Awards

Congratulations to the following who have received honors!

► **Julie Frank, MS, CGC**, Instructor, Department of Pediatrics, was selected as the 2020 AGCPD Outstanding Clinical Supervisor Award recipient by the University of Maryland School of Medicine Masters in Genetic Counseling Program.



Derik Davis, MD

► **Derik Davis, MD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was featured in the May 2020 edition of the “American Journal of Sports Medicine Editorial Board Spotlight.” See: <https://ajsmeditorialboardspotlight.wordpress.com/2020/05/>

Appointments

We applaud our colleagues on their recent appointments!



Thomas Blanpied, PhD

► **Thomas Blanpied, PhD**, Department of Physiology, was promoted from Associate Professor to Professor, effective July 1, 2020.

► **Donna Calu, PhD**, Assistant Professor, Department of Anatomy and Neurobiology, joined the editorial board, in May 2020, as review editor, for *Decision Neuroscience*, including *Frontiers in Neuroscience* and *Frontiers in Psychology*.



Donna Calu, PhD



Andrea Meredith, PhD

► **Andrea Meredith, PhD**, Department of Physiology, was promoted from Associate Professor to Professor, effective July 1, 2020.

► **Matthew Trudeau, PhD**, Department of Physiology, was promoted from Associate Professor to Professor, effective July 1, 2020.



Matthew Trudeau, 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/buzzworthy-news/>

Research Communications Network

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

DEPARTMENTS

- **Anatomy & Neurobiology:** Leslie Fitzpatrick
lfitzpatrick@som.umaryland.edu
- **Anesthesiology:** Candace Gaphardt
cgaphardt@som.umaryland.edu
- **Biochemistry & Molecular Biology:** Qun Zhou
qzhou@som.umaryland.edu
- **Dermatology:** Laurie Timberlake
ltimberlake@som.umaryland.edu
Betsy Satosky | fsatosky@som.umaryland.edu
- **Diagnostic Radiology & Nuclear Medicine:**
Brigitte Pocta | bpocta@umm.edu
- **Emergency Medicine:** Linda Kesselring
lkesselring@em.umaryland.edu
- **Epidemiology & Public Health:** Hannah Andrews
handrews@som.umaryland.edu
- **Family & Community Medicine:**
Cathy Malecki | CathyMalecki@som.umaryland.edu
Erinn Smith | ErSmith@som.umaryland.edu
- **Medicine:** Molly Lutz
mlutz@medicine.umaryland.edu
- **Microbiology & Immunology:**
Cecilia Lizer | clizer@som.umaryland.edu
- **Neurology:** Penelope Birkhead
pbirkhead@som.umaryland.edu

- **Neurosurgery:** India Griffin
igriffin@som.umaryland.edu
- **OB-GYN:** Robin Kissinger
rkissinger@fpi.umaryland.edu
- **Ophthalmology:** Amy Kopec
akopec@som.umaryland.edu
- **Orthopaedics:** Dori Kelly
dkelly@umoa.umm.edu
- **Otorhinolaryngology:** Zubair Ahmed
zahmed@som.umaryland.edu
- **Pathology:** Lisa Rodgers
LiRodgers@som.umaryland.edu
- **Pediatrics:** Denise Hansen
dhansen@som.umaryland.edu
- **Pharmacology:** Shalon Edwards
NEdwards@som.umaryland.edu
- **Physical Therapy & Rehabilitation Science:**
Donna Bethke | dbethke@som.umaryland.edu
- **Physiology:** Marty Lind
mlind@som.umaryland.edu
- **Psychiatry /BSRCU:** Lisa Cleary
lcleary@psych.umaryland.edu
- **Radiation Oncology:** Nancy Knight
nknight@umm.edu
- **Surgery:** Michele Mehrling
mmehrling@smail.umaryland.edu

INSTITUTES

- **Institute for Genome Sciences (IGS):**
Sarah Pick | spick@som.umaryland.edu
Riham Keryakos | rkeryakos@som.umaryland.edu
- **Institute of Human Virology (IHV):**
Nora Samarayanake
nsamarayanake@ihv.umaryland.edu
- **Institute for Clinical & Translational Research (ICTR):** Meriem Gaval Cruz
meriem.gavalcruz@umaryland.edu

RESEARCH CENTERS

- **Center for Biomedical Engineering and Technology (BioMet):** Pamela Wright
pbwright@umaryland.edu
- **Center for Integrative Medicine:**
Rebekah Owens | rowens@som.umaryland.edu
- **Center for Stem Cell Biology:**
Evets Morgan | emorgan@som.umaryland.edu
- **Center for Vaccine Development and Global Health:** Leslie Jamka | ljamka@som.umaryland.edu
Joanne Morrison | jmorrisson@som.umaryland.edu
- **Center for Vascular & Inflammatory Diseases:**
Yan Sun | yansun@som.umaryland.edu
- **Center for Innovative Biomedical Resources (CIBR):** Thomas McHugh
tmchugh@som.umaryland.edu
- **Center for Research on Aging:** Hannah Andrews
handrews@som.umaryland.edu
- **Center for Shock, Trauma and Anesthesiology Research (STAR-ORC):**
Gabriela Felton | gfelton@anes.umm.edu

RESEARCH PROGRAMS

- **Program in Comparative Medicine:**
Deborah Sanchez | dsanchez@umaryland.edu

- **Program in Genetics & Genomic Medicine:**
Ruth Cosentino | rcosenti@som.umaryland.edu

- **Program in Health Disparities and Population Health:** Kate Tracy
ktracy@som.umaryland.edu

- **Program in Neuroscience:** Georgia Rogers
grogers@som.umaryland.edu

- **Program in Oncology:** Kelli Carroll
kcaroll@umm.edu

- **Program in Trauma:** Betsy Burcham
bburcham@umm.edu

ACADEMIC PROGRAMS

- **Graduate Programs in Life Sciences (GPILS):**
Sharron Graves | sgraves@som.umaryland.edu
- **Medical Scientist Training Program (MSTP):**
Jane Bacon | jbacon@som.umaryland.edu
- **MD Admissions:** Sandra Quezada
squezada@medicine.umaryland.edu
- **Medical & Research Technology:**
Cynthia Stambach
cstambach@som.umaryland.edu
- **Masters of Public Health (MPH):**
Kara Longo | klongo@som.umaryland.edu

ADMINISTRATIVE UNITS

- **Faculty Affairs:** Robertha Simpson
rsimpson@som.umaryland.edu
- **Information Services:** Sharon Bowser
sbowser@som.umaryland.edu
- **Research Career Development:**
Stacie Mendoza
smendoza@som.umaryland.edu
- **Student Affairs:** TBA
- **Student Research:** Jean Marie Roth
jroth@som.umaryland.edu