



What's the Buzz?

DECEMBER 2021 VOL.23 NO.12

SELF-REPORTED NEWS *from the* SCHOOL OF MEDICINE COMMUNITY

Grants & Contracts

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



Clement Adebamowo, BM, ChB, ScD, FWACS, FACS

► **Clement Adebamowo, BM, ChB, ScD, FWACS, FACS**, Professor, Department of Epidemiology & Public Health, received a five-year, \$2,000,000 MPI award from the National Institute of Mental Health (NIMH) for his project entitled “Bridging Gaps in the ELSI of Data Science Health Research in Nigeria (BridgELSI).”

► **Odessa Addison, DPT, PhD**, Associate Professor, Department of Physical Therapy and Rehabilitation Science, received a VA Merit award from the Department of Veterans Affairs, Office of Rehabilitation

Research and Development. The four-year, \$1,199,981 grant entitled “Reducing Fall Risk with the Use of Neuromuscular Electrical Stimulation to Maximize the Hip Abductor Muscles in Older Veterans,” is for the period January 2022–December 2025.

► **Eduardo Bento de Faria, DVM**, Research Associate, Department of Radiation Oncology, received \$12,319 from the VA Baltimore Research and Education Foundation, Inc., for “Measurement of Radiation-induced Fibrosis by Size-Adjust CT Scanning.”



Robert Bloch, PhD

► **Robert Bloch, PhD**, Professor, Department of Physiology, received a two-year \$153,200 grant from the Facioscapulohumeral Muscular Dystrophy Society (FSHD) for “SLC34A2 as a Biomarker for FSHD.”

► **Shannan Dixon, MS, CGC**, Assistant Professor, Department of Pediatrics, and Director, Master's in Genetic Counseling Program, has secured \$1.87 million over five years to increase diversity in the genetic counseling work force.

In early spring 2021, five genetic counseling programs in the northeast, including the Master's in Genetic Counseling Program at the University of Maryland School of Medicine formed a consortium “The Alliance to Increase Diversity in Genetic Counseling” (AID-GC) and worked with the Warren Alpert Foundation to develop a proposal to increase diversity and inclusion in the genetic counseling workforce. The consortium has been awarded a grant for \$9.5 million to increase diversity in genetic counseling and the UMSOM MGC Program is receiving a total award of \$1.87 million over the five-year period. The AID-GC project will support 40 underrepresented students in five genetic counseling programs in the northeastern U.S. over five years to expand all dimensions of diversity. Other consortium members, in addition to the MGC Program, include the Genetic Counseling master's programs at Boston University School



Odessa Addison, DPT, PhD



Shannan Dixon, MS, CGC

of Medicine, Rutgers, the State University of New Jersey, and Sarah Lawrence College. Ten students will be selected yearly to receive full tuition support and a cost-of-living stipend. In addition, the five programs will collaborate to develop new curricular content and culturally tailored standardized patient sessions.



Joanne Dorgan, PhD, MPH

► **Joanne Dorgan, PhD, MPH**, Professor, Department of Epidemiology & Public Health, received a two-year, \$240,000 award from the Food and Drug Administration (FDA) for her project entitled “Prospective Multimodality Cardiac Imaging and Biomarker Characterization of Cardiovascular Toxicity in Chimeric Antigen Receptor T-cell Therapy for Relapsed or Refractory large B-cell Lymphoma.” This is a collaborative project awarded under the University of Maryland Center of Excellence in Regulatory

Science and Innovation.

► **Alex Ksendzovsky, MD**, Assistant Professor, and **Philip Iffland, PhD**, Assistant Professor, both from the Department of Neurology, received \$250,000 from The Lisa Dean Moseley Foundation for “A High-Throughput Drug Screening Tool for mTOPopathies.”

► **Shenghan Lai, MD**, Professor, Department of Epidemiology & Public Health, received a \$31K one-year award from the University of California, Los Angeles, for his project entitled “Collaborating Consortium of Cohorts Producing NIDA Opportunities.”



Philip Iffland, PhD



Osamah Saeedi, MD

► **Osamah Saeedi, MD, MS**, Associate Professor, Department of Ophthalmology and Visual Sciences, was awarded a five-year, \$1.7 million R01 grant from the National Eye Institute (NIH/NEI) for “Direct Measures of Retinal Blood Flow and Autoregulation as Robust Biomarkers for Early Glaucoma.”

► **Michelle Shardell, PhD**, Professor, and **Rebecca Brotman, PhD, MPH**, Professor, Department of Epidemiology & Public Health, received a \$3.1M five-year research grant (R01) from the National Institutes of Aging for their project entitled “Methods to Test Lifestyle, Vaginal Microenvironment, and Genitourinary Symptoms across Menopause Transition.”

► **Esther Vicente, PhD**, Research Associate, Department of Radiation Oncology, was awarded \$14,999 in funding sponsored by Siemens Medical Solutions USA, Inc., for “Therapy Planning Software Evaluation CTTO.”



Rebecca Brotman, PhD, MPH

New Faculty

We welcome our new faculty!

► **Petrus (“Pierre”) Malherbe, MB, ChB**, joined the Department of Emergency Medicine as a postdoctoral research fellow in August 2021. Dr. Malherbe graduated from University of Stellenbosch School of Medicine in Cape Town, South Africa, in November 2020. In his new role, he will be helping with the department's clinical trials and other research projects.

Presentations, Events, Lectures & Workshops

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



Sally Adebamowo, MBBS, MSc, ScD

► **Sally Adebamowo, MBBS, MSc, ScD**, Associate Professor, Department of Epidemiology & Public Health, was a speaker at the Polygenic Risk Methods in Diverse Populations (PRIMED) Consortium sponsored by The Electronic Medical Records and Genomics (eMERGE) Network Steering Committee Meeting at The Hilton in Rockville, MD, on October 27, 2021. She was also invited as a member to The NIH Bridge2AI OT Review Panel, 2021.

► **Abdul-Kareem Ahmed, MD**, PGY-4, attended the Stereotactic and Functional Neurosurgery Workshop, hosted by the American Society for Stereotactic and Functional Neurosurgery (ASSFN) and the University of Colorado, Department of Neurosurgery. This lecture was held November 11-14, 2021. Also, an abstract entitled “Variability in Vascular Supply of Intracranial Meningiomas: An Angiographic and Anatomic Study” was selected for a podium presentation at the 31st Annual North American Skull Base Society (NASBS) meeting. The meeting is scheduled for February 18-20, 2022, at the Sheraton Grand at Wild Horse Pass in Phoenix, AZ.

► **Thomas Blanpied, PhD**, Professor, Department of Physiology, presented a lecture entitled “Dynamic Control of Synapse Architecture” to the Cajal lectures: Advanced imaging techniques for cellular and systems neuroscience at the Bordeaux School of Neuroscience, held on November 3, 2021.



Thomas Blanpied, PhD

► **Maureen Black, PhD**, Professor, Department of Pediatrics, presented the key-note address “Impact of the Pandemic on Child Development Globally—and Key Strategies for a Brighter Future” at the Children’s Hospital of Philadelphia’s 13th Annual Global Health Conference, held in Philadelphia, PA, on October 30, 2021.



Maureen Black, PhD

► **Robert Bloch, PhD**, Professor, Department of Physiology, presented a virtual talk at the European Society for Medicine Congress, (ESMED), which was held November 11-13, 2021 in Vienna, Austria, entitled “Muscle Xenografts Reproduce Key Molecular Features of Facioscapulohumeral Muscular Dystrophy (FSHD).”



Robert Bloch, PhD

► **Katie Dondero, MS, RCEP, CSCS**, PhD Student; **Elizabeth Parker, PhD, RD**, Assistant Professor; and **Odessa Addison, DPT, PhD**, Associate Professor, all from the Department of Physical Therapy and Rehabilitation Science, presented at the annual meeting of the Mid-Atlantic Regional Chapter of the American College of Sports Medicine. The conference was held in Harrisburg, PA, on November 5-6, 2021. Their session was entitled “Promoting Optimal Aging: Identifying and Addressing Vulnerabilities in Aging Adults.”



Elizabeth Parker, PhD, RD

► **Michael Grasso, MD, PhD**, Assistant Professor, Department of Emergency Medicine, presented “Physician Prescribing Changes Impacted by Patient-Initiated Online Health Searches” at the Institute of Electrical and Electronics Engineers (IEEE) 12th International Workshop on Biomedical and Health Informatics (BHI 2021), which was held virtually on December 9, 2021.



Michael Grasso, MD, PhD

► **Marc Hochberg, MD, MPH, MACP, MACR**, Professor, Department of Medicine, presented the Oscar Gluck, MD Memorial Lecture on “The Role of Bone



Marc Hochberg, MD, MPH, MACP, MACR

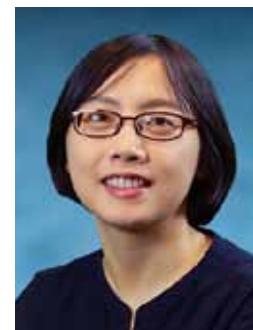
in Osteoarthritis” during the 2021 American College of Rheumatology annual meeting held on November 7, 2021.

► **Linda Horn, PT, DScPT, MHS, GCS, NCS**, Assistant Professor, Department of Physical Therapy and Rehabilitation Science, was a co-author on two recent poster presentations: the first was at the 2021 Interprofessional Education Collaborative (IPEC)



Linda Horn, PT, DScPT, MHS, GCS, NCS

Virtual Poster Fair on October 19, 2021, entitled: “The Triangulation of IPE, Simulation and Telehealth in Health Professions Education: A Pilot Study.” The second poster was presented at the American Physical Therapy Association’s 2021 Education Leadership Conference (ELC), which was held in Atlanta, GA, from October 22-24, 2021, entitled, “Preparing PTs for Interprofessional Telehealth Practice: A Pilot Study.”



Meizhen Huang, PhD

► **Meizhen Huang, PhD**, Postdoctoral Fellow, Department of Physical Therapy and Rehabilitation Science, presented at the 98th Annual American Congress of Rehabilitation Medicine, which was held virtually September 26-29, 2021. Her presentation was entitled “Effect of Multicomponent Home-Based Training on Gait and Muscle Strength Performance in Older Adults with Hip Fracture,” and encompassed contributions from several faculty members at PTRS including: **Vincent Conroy, PT, DScPT**, Assistant

Professor; **Mark Rogers, PT, PhD, FAPTA**, Adjunct Professor; **Douglas Savin, PT, MPT, PhD**, Assistant Professor, and **Li-Qun Zhang, PhD**, Professor.



Nicholas Morris, MD

► **Nicholas Morris, MD**, Assistant Professor, Department of Neurology, organized a session at the Annual Neurocritical Care Society meeting in Chicago, IL, on October 29, 2021 titled “Simulation in Neurocritical Care as Translational Science.” Dr. Morris also presented “Simulation Solutions to Neurocritical Care Delivery Deficiencies.”

► Members of the Division of Growth and Nutrition in the **Department of Pediatrics** made five oral presentations at the annual meeting of the American Public Health

Association, held Oct 24-27, 2021, in Denver, CO:

- **Alysse Kowalski, PhD**, Postdoctoral Fellow, was the lead author of “Pre- to Early Pandemic Changes in Risk of Household Food Insecurity among Maryland Families with Children.” **Anne Pulling-Kuhn, PhD**, Postdoctoral Fellow; **Erin Hager, PhD**, Associate Professor; and **Maureen Black, PhD**, Professor, were co-authors



Alysse Kowalski, PhD

- **Zahra Rahmaty, PhD**, 2021 graduate of the School of Nursing, was the lead author on “Preschooler Obesity: Associations with Caregiver Feeding Practices and Perceptions of Child Temperament and Size.” **Maureen Black, PhD**, Professor, was a co-author

- **Anne Pulling-Kuhn, PhD**, Postdoctoral Fellow, was the lead author on “Changes in Objectively Measured Childhood Physical Activity Associated with Pandemic Related Closures.” **Alysse Kowalski, PhD**, Postdoctoral Fellow; **Maureen Black, PhD**, Professor, and **Erin Hager, PhD**, Associate Professor, were co-authors

- **Zahar Zafari, PhD**, Assistant Professor, School of Pharmacy, was the lead author of “Financial Impacts of COVID-19 Pandemic on School Meal Programs in Maryland.” **Erin Hager, PhD**, Associate Professor, was a co-author.

Presentations, Events, Lectures & Workshops

Continued

- **Erin Hager, PhD**, Associate Professor, participated on an invited panel, “Waivers and Flexibilities Issued by USDA During School Closures: Maryland Spring 2020,” in Session.

► The annual conference of the American Academy of Orthopaedic Manual Physical Therapists (AAOMPT) was held in Cleveland, OH, October 7-10, 2021. **Ethan Feder,**



Peter Bowman, PT, DPT, FAAOMPT

PT, DPT, OCS, Adjunct Instructor, Department of Physical Therapy & Rehabilitation Science, presented a poster entitled “Treatment of Lumbar Radiculitis in a Patient with a Lateral Ankle Sprain: A Case Report.” Co-authors, also from the Department of Physical Therapy and Rehabilitation Science, included **Peter Bowman, PT, DPT, FAAOMPT**, Assistant Professor; **Roy Film, PT, MPT, DPT, OCS, FAAOMPT**, Assistant Professor, and **Alisa Pravdo, PT, DPT, OCS, FAAOMPT**, Assistant Professor.

► The **Department of Radiation Oncology’s** Division of Translational Radiation Sciences (DTRS) was well represented at the 2021 Meeting of the Radiation Research Society, which was held in an “immersively virtual format” October 3–6, 2021 in San Juan, Puerto Rico:

- **Isabel Jackson, PhD**, Associate Professor,



Erin Hager, PhD



Isabel Jackson, PhD

was a member of the program planning committee and presented on “Circulating Markers of Vascular Injury Associated with TBI-Induced Blood Failure and Delayed Effects of Acute Radiation Exposure in a Non-Human Primate Model.”

- **Elisabeth Vicente, MD**, Program Manager for biomarkers in Dr. Jackson’s lab, gave a poster presentation on “Phospho-SMAD-2 Temporal Expression in C57L/J Murine Lung Tissue after Total Body Irradiation with 2.5% Bone Marrow Sparing Induced Delayed Effects of Acute Radiation Exposure.”
- **France Carrier, PhD**, Professor, was the chair of a session on “Radiation-Induced Cell Death.”
- **Emily Draeger, PhD**, medical physics resident at Yale University, was invited to present work that she conducted under the mentorship of Dr. Jackson and **Yannick Poirier, PhD**, Assistant Professor, while a research radiation physicist in DTRS in a session titled “100 Years of Radiation Dose (History Committee)” session.

► **Maryland at ASTRO 2021:** Maryland was well represented at the 2021 Annual Meeting of the American Society for Radiation Oncology (ASTRO), held October 24-27, 2021 in Chicago, IL. Faculty members, residents, and post-doctoral and medical students made 34 presentations (7 podium, 24 posters, and 3 on panels or as moderators). The meeting was offered as a hybrid in-person/virtual experience with limited in-person representation and expanded online offerings for registered attendees. Preliminary planning for 2022 ASTRO presentations has already begun. The meeting will be held October 23–26 in San Antonio, TX.



France Carrier, PhD

Community Service

Thanks to those who selflessly donate their time, talent and resources. Your goodwill does not go unappreciated.!

► The Global Physical Therapy Day of Service was held this year on Saturday, October 9, 2021. The **Department of Physical Therapy and Rehabilitation Science’s** DPT Class of 2024 coordinated their service with the Baltimore Running Festival. They were assigned to conduct bag checks for the 5K, 10K, half marathon, and full marathon. Arriving at 5:40 a.m., they checked hundreds of participant’s bags and kept them safe so that participants could focus on racing well and having fun. The students enjoyed interacting with the participants, providing encouragement and reassurance to the runners.

Pictured: PTRS DPT Class of 2024 students: (back row, L-R) Victoria Hudson, Abigail Guise, Jaelyn Edwards, Jane Inyang, Katie Hantske, Ellen Lloyd, Anna Perry, and Kiyanna Monroe; (front row, L-R) Alice Wolfkill, Alyssa Clark, Sofie Massa, Olivia Inskeep, and Steven Gilliam.



Appointments

We applaud our colleagues on their recent appointments!



Marie-Claude Lavoie, PhD, MSc

► **Marie-Claude Lavoie, PhD, MSc**, has been appointed Assistant Professor, full-time, in the faculty of the Department of Epidemiology & Public Health at the University of Maryland School of Medicine. Dr. Lavoie serves as the Center for International Health Education and Biosecurity (CIHEB) Strategic Information

Director at the Institute of Human Virology under the leadership of **Man Charurat, PhD, MHS**, Professor, Director of CIHEB.

► **Jeffrey Wolf, MD**, Professor, Department of Otorhinolaryngology–Head & Neck Surgery, has been appointed Associate Chief Clinical Officer for the University of Maryland Medical Center.



Jeffrey Wolf, MD

Honors & Awards

Congratulations to the following who have received honors!

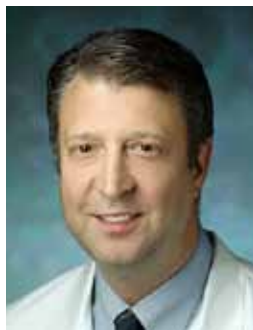
► **Kenneth Crandall, MD**, Clinical Assistant Professor, Department of Neurosurgery, received Top Doctor of 2021 by *Baltimore Magazine*, for Spine Surgery.



Jose Diaz, MD

► **Jose Diaz, MD**, Professor, Department of Surgery, will receive a 2022 Distinguished Service Award from the Society of Critical Care Medicine (SCCM). Dr. Diaz is receiving this award for his generous contributions of time and energy, and the outstanding work he has done for the Society. The award will be presented during the American College of Critical Care Medicine Convocation/Society of Critical Care Medicine Awards presentation, to be held February 7, 2022, in San Juan, Puerto Rico.

► **David Efron, MD**, the Thomas M. Scalea, MD Distinguished Professor of Trauma Surgery, Professor, Department of Surgery, was named one of *Baltimore Magazine's* Top Doctors in October 2021.



David Efron, MD

► **Howard Eisenberg, MD**, Professor, Department of Neurosurgery and Neurosurgery Research Team, as well as the collaborative work amongst multidisciplinary teams at UMSOM, Insightec, announced FDA Approval for "Exablate Neuro for the Treatment of Parkinson's Disease," on November 3, 2021.



Howard Eisenberg, MD

► **Jason Falvey, PT, DPT, PhD**, Assistant Professor, Department of Physical Therapy and Rehabilitation Science, has been appointed to the Public Policy and Advocacy Committee by the American Physical Therapy Association's (APTA) Board of Directors for a three-year term starting January 1, 2022. In this role, Dr. Falvey will help advise APTA on current and emerging public policy issues impacting the provision of physical therapy, rehabilitation, and health care services.



Jason Falvey, PT, DPT, PhD

► **Mary Kay Lobo, PhD**, Professor, Department of Anatomy and Neurobiology, was the recipient of the Society for Neuroscience Jacob P. Waletzky Memorial Award. This is one of five life-time awards that honors the work of dedicated scientists who make an outstanding contribution to the field of neuroscience. The award was announced on November 1, 2021, during the National Institute on Drug Abuse (NIDA) and the National Institute on Alcohol Abuse and Alcoholism (NIAAA) Mini-Convention where the recipient gives a Jacob P. Waletzky Memorial Award Lecture. The award is given for research that has led to significant conceptual and empirical contributions to the understanding of drug addiction.



Mary Kay Lobo, PhD

► **Victoria Marchese, PT, PhD**, Associate Professor and Chair, Department of Physical Therapy and Rehabilitation Science, was honored with the Jane Kroh Satterfield Endowed Professorship in Physical Therapy and Rehabilitation Science on November 2, 2021. This award was established in recognition of excellence in clinical, research, and scholarly pursuits in the area of physical therapy and rehabilitation science.

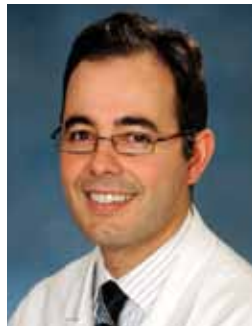


Victoria Marchese, PhD, PT

► **Nicholas Morris, MD**, Assistant Professor, Department of Neurology, received the Neurocritical Care Society Mentorship during the Annual Neurocritical Care Society Meeting held in Chicago, IL, October 26-29, 2021.



Nicholas Morris, MD



Charles Sansur, MD, FAANS

► **Charles Sansur, MD, FAANS**, Professor, Department of Neurosurgery, received Top Doctor of 2021 by *Baltimore Magazine*, for Neurosurgery.

► **Thomas Scalea, MD**, The Honorable Francis X. Kelly Distinguished Professor of Trauma Surgery, Professor of Surgery, Director, Program in Trauma, was named one of *Baltimore Magazine's* Top Doctors in October 2021.



Thomas Scalea, MD

► **Gary Schwartzbauer, MD, PhD**, was elected to the Medical Education Leadership Academy (MELA) of the University of Maryland School of Medicine as a Core Instructor.



Gary Schwartzbauer, MD, PhD

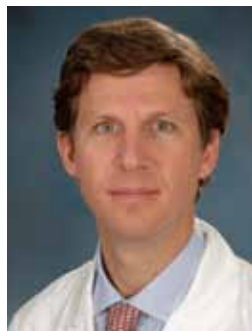
► **Esther Vicente, PhD**, Research Associate, Department of Radiation Oncology, was first author of the podium presentation "Accounting for Serial and Parallel Functionality of the Lung May Minimize Post-Radiotherapy Loss of Respiratory Function in Lung Cancer Patients." She was recognized with an ASTRO Basic/Translational Science Award, one of only a few given to residents and early-career professionals and chosen from almost 2,000 submitted abstracts.

► **Rachel Wiltjer, DO**, Resident, Department of Emergency Medicine, won the top prize of Resident Presenter Champion with her presentation of a case of methotrexate toxicity at the National Council of Residency Directors in Emergency Medicine's Clinical Pathologic Case Competition Finals on October 25, 2021.



Rachel Wiltjer, DO

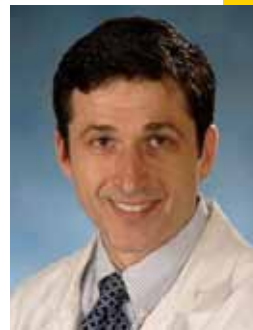
► **Graeme Woodworth, MD, FACS**, Professor and Chair, Department of Neurosurgery, received Top Doctor of 2021 by *Baltimore Magazine*, for Neurosurgery.



Graeme Woodworth, MD

► *Baltimore Magazine* named as Top Doctors the following faculty members of the Department of Emergency Medicine in its November 2021 issue:

- **Brian Corwell, MD**, Assistant Professor, in the category of Emergency Medicine
- **Stephen Schenkel, MD, MPP**, Associate Professor, in the category of Emergency Medicine
- **Kinjal Sethuraman, MD, MPH**, Associate Professor, in the category of Hyperbaric Medicine



Brian Corwell, MD



Kinjal Sethuraman, MD, MPH

► Faculty members from the Department of Physical Therapy and Rehabilitation Science were recently honored with awards from the American Physical Therapy Association—Maryland (APTAMD): **Roy Film, PT, MPT, DPT, OCS, FAAOMPT**, Assistant Professor, received the Henry O. and Florence P. Kendall award, and **Linda Horn, PT, DScPT, MHS, GSC, NCS**, Assistant Professor, received the Richard T. Peret Distinguished Service Award.



Roy Film, PT, MPT, DPT, OCS, FAAOMPT



Linda Horn, PT, DScPT, MHS, GCS, NCS

Publications

Hats off to those who have been published!



Zubair Ahmed, PhD

► **Zubair Ahmed, PhD**, Professor, Department of Otorhinolaryngology-Head & Neck Surgery, was among the co-authors of “Putting the Pieces Together: The Hair Cell Transduction Complex,” which was published in the *Journal for the Association for Research in Otolaryngology* on October 6, 2021. He was the lead author of “Biallelic Variants in EPHA2 Identified in Three Large Inbred Families with Early Onset Cataract,” which was published in the *International Journal of Molecular Sciences* on September 30, 2021.

► **Maureen Black, PhD**, Professor, Department of Pediatrics, was a co-author on “Evidence-Based Recommendations and Best Practices for Promoting Healthy Eating Behaviors in Children 2 to 8 Years,” which was released by *Healthy Eating Research* on October 20, 2021. She and **Angela Trude, PhD**, Postdoctoral Fellow, Department of Pediatrics, were co-authors of “Associations between Paternal Anxiety and Infant Weight Gain,” which was published in *Children* on October 28, 2021.



Maureen Black, PhD

► **Garrett Cavaliere, DO**, Resident, and **Christine Kositz, DO**, 2020 Residency Graduate, Department of Emergency Medicine, were co-authors of “Emergency Department Diagnosis of Postprocedural Hemorrhagic Cholecystitis Utilizing Point of Care Ultrasound,” which was accepted for publication in the *Journal of Emergency Medicine* on October 14, 2021.



Linda Chang, MD, MS

► **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 “Race/Ethnicity-Associated Blood DNA Methylation Differences between Japanese and European American Women: An Exploratory Study,” which was published in the October 2021 issue of *Clinical Epigenetics*. Separately, Dr. Chang was among the co-authors of “A Comprehensive Overview of the Physical Health of the Adolescent Brain Cognitive Development Study Cohort at Baseline,” which was published in the October 2021 issue of *Frontiers in Pediatrics*.

► **Kenneth Crandall, MD**, Clinical Assistant Professor, and **Charles Sansur, MD, FAANS**, Professor, both from the Department of Neurology, were published in the 7th Edition of the *NMS Surgery Med Student* textbook on chapter 26, “Surgical Subspecialties,” on October 2, 2021.



Derik Davis, MD

► **Derik Davis, MD**, Associate Professor; **Jiachen Zhuo, PhD**, Assistant Professor; **Michael Mulligan, MD**, Clinical Professor; **Charles Resnik, MD**, Professor; and **Rao Gullapalli, PhD, MBA**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Correlation of Quantitative Versus Semiquantitative Measures of Supraspinatus Intramuscular Fatty Infiltration to Shoulder Range of Motion and Strength: A Pilot Study,” which was published in the September-October 2021 issue of *Current Problems in Diagnostic Radiology*. Dr. Davis was the first author and Dr. Gullapalli was the last author.

► **Zachary Dezman, MD, MS, MS**, Assistant Professor, Department of Emergency Medicine, was first author of “The Actual, Long-Term Cost of Intentional Injury Care among a Cohort of Maryland Medicaid



Charles Sansur, MD, FAANS



Zachary Dezman, MD, MS, MS

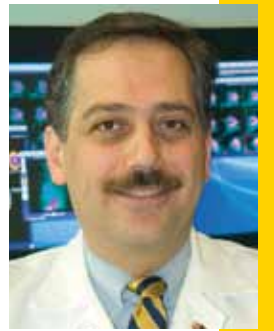
Recipients,” which was published in the *Journal of Trauma and Acute Care Surgery* on October 4, 2021.



Timm-Michael Dickfeld, MD, PhD

► **Timm Dickfeld, MD, PhD**, Professor, Department of Medicine, and **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, were among the authors of “Metabolic Scar Assessment with 18-FDG-PET: Correlation to Ischemic VT Substrate and Successful Ablation Sites,” which was published in the November 2021 issue of the *Journal of Nuclear Medicine*.

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was a co-author of “Non-Invasive Imaging in Coronary Syndromes—Recommendations of the European Association of Cardiovascular Imaging and the American Society of Echocardiography, in Collaboration with the American Society of Nuclear Cardiology, Society of Cardiovascular Computed Tomography and Society for Cardiovascular Magnetic Resonance,” which was published in the November 2021 issue of the *European Heart Journal: Cardiovascular Imaging*.



Vasken Dilsizian, MD



David Dreizin, MD

► **David Dreizin, MD**, Associate Professor; **Guang Li, PhD**, Assistant Professor; and **Rong Chen, PhD**, Associate Professor; all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Volumetric Markers of Body Composition May Improve Personalized Prediction of Major Arterial Bleeding after Pelvic Fracture: A Secondary Analysis of the Baltimore CT Prediction Model Cohort,” which was published in the November 2021 issue of the *Canadian Association of Radiologists*

Journal. Dr. Dreizin was the first author and Dr. Chen was the last author.

► **Jason Falvey, PT, DPT, PhD**, Assistant Professor, Department of Physical Therapy and Rehabilitation Science, was the lead author of “Neighborhood Socioeconomic Disadvantage and Disability after Critical Illness,” which was published in *Critical Care Medicine* on October 13, 2021.



Kevin Flanagan, DO

► **Kevin Flanagan, DO**, Assistant Professor; **Zachary Dezman, MD, MS, MS**, Assistant Professor; **Karl Dachroeden, MD**, Resident; and **Laura Bontempo, MD, MEd**, Associate Professor, all from the Department of Emergency Medicine, were the authors of “73-Year-Old Female with Syncope and Motor Vehicle Collision,” which was published in *Clinical Practice and Cases in Emergency Medicine* on November 1, 2021.



Jason Falvey, PT, DPT, PhD

► **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Unruptured Cerebral Aneurysms in Elderly Patients: Key Challenges and Management,” which was published in the December issue of *Annals of Medicine*.



Erin Hager, PhD

► **Erin Hager, PhD**, Associate Professor, Department of Pediatrics, was a co-author of “Strategies to Improve School Meal



Dheeraj Gandhi, MBBS

Consumption: A Systematic Review,” which was published in *Nutrients* on October 21, 2021.

► **Gregory Jasani, MD**, Clinical Instructor; **Reem Alfalasi, MB, ChB**, 2021 Residency Graduate; **Garrett Cavaliere, DO**, Resident; and **Benjamin Lawner, DO, MS, EMT-P**, Associate Professor, all from the Department of Emergency Medicine, were among the authors of “Terrorist Attacks against Vaccinators: A Review,” which was published in *Health Security* on October 12, 2021.



Benjamin Lawner, DO, MS, EMT-P



Jean Jeudy, MD

► **Jean Jeudy, MD**, Professor; **Rydhwana Hossain, MD**, Assistant Professor; and **Charles White, MD**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Cardiac MRI Findings of Myocarditis after COVID-19 mRNA Vaccination in Adolescents,” which was published in *AJR American Journal of Roentgenology* on October 27, 2021. Separately, Dr. White was the last author of “Diagnostic Accuracy of Coronary Artery Occlusion and Myocardial Perfusion Defect on Non-Gated Enhanced Chest CT in Predicting Acute Myocardial Infarction,” which was published in the September 2021 issue of *Tomography*.

► **Kimia Khalatbari Kani, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the first author of “Low-Velocity, Civilian Firearm Extremity Injuries—Review and Update for Radiologists,” which was published in *Skeletal Radiology* on October 30, 2021.

► **Michy Kelly, PhD**, Associate Professor, Department of Anatomy and Neurobiology, was senior author of “The Role of PDE11A4 in Social Isolation-Induced Changes in Intracellular Signaling and Neuroinflammation,” which was accepted for publication in *Frontiers in Pharmacology*.



Michy Kelly, PhD

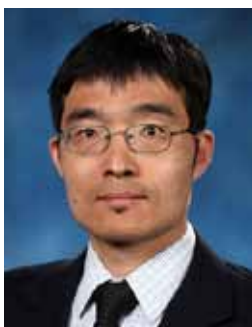
► **Marcel Lanza, PhD**, Research Associate, Department of Physical Therapy and Rehabilitation Science, was a co-author of “Behavior of Motor Units during Submaximal Isometric Contractions in Chronically Strength-Trained Individuals,” which was published in the *Journal of Applied Physiology* on November 11, 2021.



Giovanni Lasio, PhD

► **Giovanni Lasio, PhD**, Associate Professor; **Baoshe Zhang, PhD**, Assistant Professor; **Byong Yong Yi, PhD**, Professor; **Shifeng Chen, PhD**, Professor; and **Jinghao Zhou, PhD**, Associate Professor, all from the Department of Radiation Oncology, were among the authors of “Semi-Supervised Segmentation of Radiation-Induced Pulmonary Fibrosis from Lung CT Scans with Multi-Scale Guided Dense Attention,” which was published in *IEEE Transactions in Medical Imaging* on October 4, 2021.

► **Yajie Liang, MB, PhD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “An Adaptive Optics Module for Deep Tissue Multiphoton Imaging In Vivo,” which was published in the October 2021 issue of *Nature Methods*.



Yajie Liang, MB, PhD

► **Regina Macatangay, MD**; **Ashley Munchel, MD**; and **Teresa York, MD**, Assistant Professors, all from the Department of Pediatrics; were among the co-authors of “Embryonal Rhabdomyosarcoma with Posttherapy Cytodifferentiation and Aggressive Clinical Course,” which was accepted for publication in *Case Reports in Pathology* on October 21, 2021.



Regina Macatangay, MD



Victoria Marchese, PhD, PT

► **Victoria Marchese, PhD, PT**, the Jane Kroh Satterfield Professor of Physical Therapy and Rehabilitation Science and Chair, Department of Physical Therapy and Rehabilitation Science; **Kelly Rock, PT, DPT**, PhD Candidate; **Andria Harpold, SPT '22**; **Abigail Salazar, SPT '22**; and **Mary Williams, SPT '22**; all from the Department of Physical Therapy and Rehabilitation Science, were co-authors of “Physical Impairment and Function in Children and Adolescents with Sickle Cell Disease: A Systematic Review,” which was published in *Archives of Physical Medicine and Rehabilitation* on September 27, 2021.

► **Hayelom Mekonen, PhD**, Postdoctoral Fellow, Department of Anatomy and Neurobiology, was lead author of “A Silent Epidemic of Gross Congenital Malformations in Tigray, Northern Ethiopia—Hospital-Based Study,” which was published in *Scientific Reports* on October 26, 2021.

► **Mark Mishra, MD**, Associate Professor, Department of Radiation Oncology, was among the authors of “Consensus Statement on Proton Therapy for Prostate Cancer,” which was published in the Fall edition of the *International Journal of Particle Therapy*.



Jason Molitoris, MD, PhD

► **Jason Molitoris, MD, PhD**, Assistant Professor, Department of Radiation Oncology, was among the authors of “Executive Summary of Clinical and Technical Guidelines for Esophageal Cancer Proton Beam Therapy from the Particle Therapy Co-Operative Group Thoracic and Gastrointestinal Subcommittees,” which was published in *Frontiers in Oncology* on October 19, 2021.



Mark Mishra, MD



Megan Ortega, PT, DPT, GCS

► **Megan Connelly Ortega, PT, DPT, GCS**, Assistant Professor; **Victoria Marchese, PhD, PT**, the Jane Kroh Satterfield Professor of Physical Therapy and Rehabilitation Science and Chair, Department of Physical Therapy and Rehabilitation Science; **Michael Zarro, PT, DPT, SCS, CSCS**, Assistant Professor; **Roy Film, PT, MPT, DPT, OCS, FAAOMPT**, Assistant Professor; and **Cara Felter, PT, DPT, MPH, NCS, PCS**, Assistant Professor; all from the Department of Physical Therapy and Rehabilitation Science, were co-authors of “Digital and Blended Curriculum Delivery in Health Professions Education: An Umbrella Review with Implications for Doctor of Physical Therapy Education Programs,” which was published in *Physical Therapy Reviews* on November 9, 2021.

► **Austin Ramsey**, graduate student in the Program in Neuroscience; **Scott Thompson, PhD**, Professor and Chair, Department of Physiology; and **Thomas Blanpied, PhD**, Professor, Department of Physiology, were co-authors of “Subsynaptic Positioning of AMPARs by LRRTM2 Controls Synaptic Strength,” which was published in *Science Advances* on October 8, 2021.

► **Liu Ren, PhD**, Professor, Department of Radiation Oncology, was among the authors of “Multi-Contrast Four-Dimensional Magnetic Resonance Imaging (MC-4D-MRI): Development and Initial Evaluation in Liver Tumor Patients,” which was published in *Medical Physics* on October 27, 2021.



Saima Riazuddin, PhD, MPH, MBA

► **Saima Riazuddin, PhD, MPH, MBA**, Professor, Department of Otorhinolaryngology-Head & Neck Surgery, was the lead author of “Bi-allelic Variants in



Scott Thompson, PhD

SPATA5L1 Lead to Intellectual Disability, Spastic-dystonic Cerebral Palsy, Epilepsy, and Hearing Loss,” which was published in the *American Journal of Human Genetics* on October 7, 2021.



Muhammad Saleh, PhD

► **Muhammad Saleh, PhD**, Research Associate, Department of Diagnostic Radiology and Nuclear Medicine, was the last author of “In vivo Spectral Editing of Phosphorylethanolamine,” which was published in *Magnetic Resonance in Medicine* on August 19, 2021.

► **Charles Sansur, MD, FAANS**, Professor, Department of Neurology, co-authored “An Updated Management Algorithm for Incorporating Minimally Invasive Techniques to Treat Thoracolumbar Trauma,” which published in the *Journal of Neurosurgery* on October 28, 2021.



Charles Sansur, MD, FAANS



Lynn Schriml, PhD

► **Lynn Schriml, PhD**, Associate Professor, Department of Epidemiology & Public Health, first author, and **Michelle Gwinn-Giglio, PhD**, Associate Professor, Department of Medicine, both from the Institute for Genome Sciences, were among the authors of “The Human Disease Ontology 2022 Update,” which published in *Nucleic Acids Research*.

► **Eliot Siegel, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the last author of “Future Directions in Artificial Intelligence,” which was published in the November 2021 issue of *Radiologic Clinics of North America*.



Eliot Siegel, MD

► **Giovannino Silvestri, PhD**, Research Associate, Department of Medicine, Division of Virology, Institute of Human Virology, was the co-first author of “Comparison of SARS-CoV-2 Receptors Expression in Primary Endothelial Cells and Retinoic Acid-Differentiated Human Neuronal Cells,” which was published in *Viruses* on October 30, 2021.



J. Marc Simard, MD, PhD

► **J. Marc Simard, MD, PhD**, the Dr. Bizhan Aarabi Professor in Neurotrauma, was the author of “Sulfonylurea Receptor 1 in Central Nervous System Injury: An Updated Review,” which was published in the *International Journal of Molecular Sciences* on November 2, 2021.

► **Elana Smith, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the first author of “Auditing RadExam: Employing Psychometrics to Improve Exam Quality, which was published in the October 2021 issue of *Academic Radiology*.

► **Pamela Strissel, PhD**, Adjunct Associate Professor, Department of Radiation Oncology, was among the authors of “Brain and Breast Cancer Cells with PTEN Loss of Function Reveal Enhanced Durotaxis and RHOB Dependent Amoeboid Migration Utilizing 3D Scaffolds and Aligned Microfiber Tracts,” which was published in *Cancers (Basel)* on October 14, 2021.

► **Marco Venniro, PhD**, Assistant Professor, Department of Anatomy and Neurobiology, was senior author of “Waving through the Window: A Model of Volitional Social Interaction in Female Mice,” which was published in *Biological Psychiatry* on November 9, 2021.

► **Bruce Wasserman, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the last author of “Essentials for Interpreting Intracranial Vessel Wall MRI Results: State of the Art,” which was published in the September 2021 issue of *Radiology*. Separately, Dr. Wasserman was last author of “Radiation-Induced Intracranial



Marco Venniro, PhD

Vasculitis on High-Resolution Vessel Wall MRI,” which was published in the August 2021 issue of the *Journal of Neurology*.



Kelly Westlake, PhD, MSc, PT

► **Kelly Westlake, PhD, MSc, PT**, Associate Professor, and **Brian Johnson, OTR/L, PhD**, Instructor, both from the Department of Physical Therapy and Rehabilitation Science, were co-authors of “Enhancing Motor Learning in People with Stroke via Memory Reactivation During Sleep,” which was published in *Rehabilitation Psychology* on September 30, 2021.

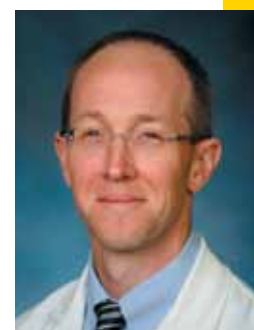
► **Jill Whitall, PhD**, Professor Emerita, Department of Physical Therapy and Rehabilitation Science, was a co-author of “The Effect of Time Spent in Rehabilitation on Activity Limitation and Impairment after Stroke,” which was recently published in *Cochrane Database of Systematic Reviews*.



Jill Whitall, PhD

► **Mike Winters, MD**, Professor, Department of Emergency Medicine, was among the discussants in the twice-monthly podcast, *Critical Care Perspectives in Emergency Medicine*, episodes:

- “Vasopressin and Steroids for IHCA?” published October 25, 2021
- “Hyperkalemia in the ED,” published November 10, 2021



Mike Winters, MD

► **Jeffrey Wolf, MD**, Professor, and **Rodney Taylor MD, MPH**, Professor and Chair, both from the Department of Otorhinolaryngology-Head & Neck Surgery, were the lead authors of “The Association of Active and Passive Tobacco Smoke Exposure with Chronic Rhinosinusitis Symptom Severity: A Cross-sectional Study,” which was published in the *International Forum of Allergy & Rhinology* on September 12, 2021.



Rodney Taylor, MD, MPH



Paul Yi, MD

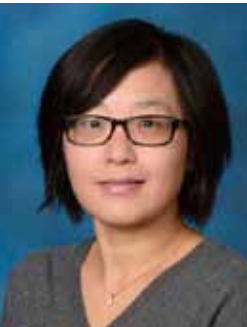
► **Paul Yi, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Radiology ‘Forensics’: Determination of Age and Sex from Chest Radiographs Using Deep Learning,” and “Limited Generalizability of Deep Learning Algorithm for Pediatric Pneumonia Classification on External Data,” both of which were published in the October 2021 issue of *Emergency Radiology*. Dr. Yi also was

the author of “MSK Clinical Applications: Orthopedic Implants,” “Can AI Distinguish a Bone Radiograph from Photos of Flowers or Cars? Evaluation of Bone Age Deep Learning Model on Inappropriate Data Inputs,” and “Artificial Intelligence in Orthopedic Implant Model Classification: A Systematic Review,” all of which were published in the August 2021 issue of *Skeletal Radiology*. In addition, he authored “Your Mileage May Vary: Impact of Data Input Method for a Deep Learning Bone Age App’s Predictions,” also published in *Skeletal Radiology* in the September 2021 issue; and “Deciphering Musculoskeletal Artificial Intelligence for Clinical Applications: How Do I Get Started?” which was published in *Skeletal Radiology* in the June 2021 issue. Other articles included:

- “Artificial Intelligence in Radiology: A Canadian Environmental Scan,” which was published in the September 2021 issue of the *Canadian Association of Radiologists Journal*
- “AUR-RRA Review: Logistics of Academic-Industry Partnerships in Artificial Intelligence,” which was published in the September 2021 issue *Academic Radiology*
- “Clinical Artificial Intelligence Applications: Musculoskeletal,” which was published in the November 2021 issue of *Radiologic Clinics of North America*

- “Deep Learning Algorithms for Interpretation of Upper Extremity Radiographs: Laterality and Technologist Initial Labels as Confounding Factors,” which was epublished in the November 2021 issue of *AJR American Journal of Roentgenology*
- **Yuji Zhang, PhD**, Associate Professor, Department of Epidemiology & Public Health, co-authored “Photodynamic Priming Improves the Anti-Migratory Activity of Prostaglandin E Receptor

4 Antagonist in Cancer Cells,” which was published in *Cancers*. Dr. Zhang also co-authored “Laminar Flow on Endothelial Cells Suppresses eNOS O-GlcNAcylation to Promote eNOS Activity,” which was published in *Circulation Research* on October 4, 2021.

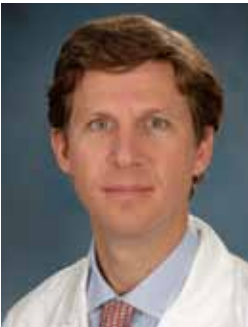


Yuji Zhang, PhD

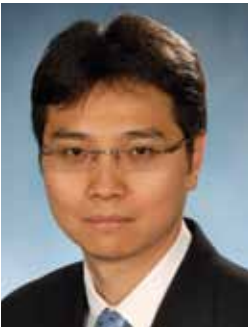
Patents

We applaud the innovators among us!

- The Translational Therapeutics Research Group (TTRG) received an official nanoparticle patent for the Targeted Structure-Specific Particulate Delivery Systems on November 1, 2021. TTRG consists of **Graeme Woodworth, MD**, Professor and Chair, Department of Neurosurgery; **Jeffrey Winkles, PhD**, Professor, Department of Surgery; and **Anthony Kim, PhD**, Associate Professor, Department of Neurosurgery.



Graeme Woodworth, MD



Anthony Kim, PhD



Jeff Winkles, 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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