

What's the Buzz?

MARCH 2019 VOL.21 NO.3

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!

► Medical Student Research Day (MSRD) is hosted by the Office of Student Research, Dean's Office & Alpha Omega Alpha Honor Society at the University of Maryland School of Medicine (UMSOM). The 41st Annual MSRD celebration was held on November 14, 2018.

MSRD is a proud tradition for UMSOM medical students to present their research accomplishments to the school and the campus. These presentations are judged, and competitive prizes are awarded in recognition of outstanding research and presentations.

1st Place MSRD Award Winners



Alexa Ciesinski, Class of 2021, 1st Place Oral Presentation Session Winner for "Impact of Phagocytosis on Microglial Activation in the Injured Brain" under the mentorship of **David Loane, PhD**, Adjunct Associate Professor, Department of Anesthesiology.



Bailey Howard, Class of 2021, 1st Place Poster Presentation Session Winner for "Predictors of Early Patient Satisfaction Following Orthopaedic Surgery" under the mentorship of **R. Frank Henn III, MD**, Associate Professor, Department of Orthopaedics.



Da Bin Lee, Class of 2021, 1st Place Poster Presentation Session Winner for "Understanding the Short-Term Neurological Impact of Exposure to Hyperoxia Following Canine Cardiac Arrest" under the mentorship of **Gary Fiskum, PhD**, the Matjasko Professorship for Research in Anesthesiology and Vice Chair, Professor, Department of Anesthesiology.



Qaren Quartey, Class of 2021, 1st Place Oral Presentation Session Winner for "Transplanting the Way to Clearance: Lessons Learned from Development of a Hidradenitis Suppurativa (HS) Xenograft Mouse Model" under the mentorship of **Angel S. Byrd, MD**,

PhD, Howard University College of Medicine Dermatology.



Matthew Schliep, Class of 2021, 1st Place Oral Presentation Session Winner for "Effect of Telemedicine on Quality of Life and Depressive Symptoms in Patients with Inflammatory Bowel Disease" under the mentorship of **Raymond Cross, MD, MS**, Professor, Department of Medicine.



Christine Server, Class of 2021, 1st Place Poster Presentation Session Winner for "Supporting the Unmet Care Needs of Older Adults with Advanced Cancer" under the mentorship of **Ryan Nipp, MD, MPH**, Massachusetts General Hospital.



Kieran Tebben, Class of 2021, 1st Place Oral Presentation Session Winner for "Analysis of Malaria Infection and Disease in the First Two Years of Life" under the mentorship of **Miriam Laufer, MD**, Professor, Department of Pediatrics.



Solomiya Tsymbalyuk, Class of 2021, 1st Place Poster Presentation Session Winner for "Brivaracetam: A Novel Non-Opioid Treatment for Pain Associated with Peripheral Nerve Injury" under the mentorship of **Marc Simard, MD, PhD**, Professor, Department of Neurosurgery.



Saif Yasin, Class of 2021, 1st Place Oral Presentation Session Winner for "Developing Model Systems to Investigate the Role of LRP1 Patient Mutations on Abdominal Aortic Aneurysms" under the mentorship of **Dudley Strickland, PhD**, Professor, Department of Surgery.

Faculty mentors were also nominated for their outstanding mentorship at the 41st Annual Medical Student Research Day:

Yvonne Rasko, MD, Assistant Professor, Department of Surgery

Matthew Frieman, PhD, Associate Professor, Department of Microbiology and Immunology

Sara Mola, MD, Assistant Professor, Department of Pediatrics

Kenechukwu Chudy-Onwugaje, MBBS, Postdoctoral Fellow, Department of Medicine

Osamah Saeedi, MD, Associate Professor, Department of Ophthalmology and Visual Sciences Director of Clinical Research & Associate Program Director for The Residency Program

Sripriya Sundararajan, MBBS, MD, Assistant Professor, Department of Pediatrics

Maureen McCunn, MD, MIPP, FCCM, Professor, Department of Anesthesiology

David Riedel, MD, MPH, Associate Professor of Medicine, Associate Professor, Division of Clinical Care and Research, Institute of Human Virology Director, Infectious Disease Fellowship Program

► The Department of Physical Therapy and Rehabilitation Science (PTRS) was well represented at the American Physical Therapy Association's annual Combined Sections Meeting which was held in Washington, DC on January 23–26, 2019. The following faculty and student presented at the meeting:

Gadi Alon, PT, PhD, Associate Professor Emeritus;
Roy Film, PT, DPT, OCS, FAOMPT, Assistant Professor;
Rachel Skolky, PT, DPT, GCS, Assistant Professor;
Karen Gordes, PhD, PT, DScPT, Assistant Professor;
Sandy McCombe Waller, PT, PhD, MS, NCS, Associate Professor;
Vicki Gray, MPT, PhD, Assistant Professor;
Mark Rogers, PT, PhD, FAPTA, Adjunct Professor;
Linda Horn, PT, DScPT, MHS, GCS, NCS, Assistant Professor;
Mary Rodgers, PT, PhD, FAPTA, FASB, FISB, Professor Emeritus;
Kelly Westlake, PhD, MSc, PT, Assistant Professor;
Odessa Addison, DPT, PhD, Assistant Professor; and
Kelly Rock, PT, DPT, PhD Student



Hummira Abawi, DPM

► **Hummira Abawi, DPM**, Instructor and **Jacob Wynes, DPM, FACPAS**, Assistant Professor; both from the Department of Orthopaedics, presented at the Baltimore Limb Deformity Course in September 2018. Dr. Abawi's presentation was "Minimally Invasive Bunion Surgery: Methods and Outcomes," and Dr. Wynes' presentation was "Alphabet Soup of Foot and Ankle Alignment: Frontal, Sagittal, and Transverse Planes."

► **Vincent Bruno, PhD**, Associate Professor, Department

of Microbiology and Immunology, Institute for Genome Sciences, presented "Hijacking of Host Cell Signaling During Mucormycosis" at the Gordon Research Conference on Immunology of Fungal Infections, in Galveston, Tex., on January 14, 2019.

► **Shuo Chen, PhD**, Associate Professor, Department of Epidemiology & Public Health, presented on "Large-Scale Mediation Analysis to Identify Gene-Brain



Vincent Bruno, PhD

Events, Lectures & Workshops Continued

Network-Nicotine Addiction Pathways Using Imaging-Genetics Data," at the National Institute on Drug Abuse (NIDA) Genetic Consortium Meeting, in Rockville, Md., on January 15, 2019. Separately, Dr. Chen presented "Graph Topology Guided Large Correlation Estimation," at an invited visit by the Biostatistics Group at the National Institute of Allergy and Infectious Disease (NIAID) in Bethesda, Md., on November 14, 2018. In addition, Dr. Chen, presented an invited talk on "Data-Driven Autoregressive Model for Whole Brain Neurometabolite Analysis," at the Division of Biostatistics, School of Public Health, University of Minnesota, Twin Cities, in Minneapolis, Minn., on March 5, 2019.



Shuo Chen, PhD

► **Colleen Hughes Driscoll, MD**, Assistant Professor, Department of Pediatrics, developed and taught a four-part quality and performance improvement workshop at the McDonogh School. McDonogh is a coeducational, college preparatory school in Owings Mills, Md. The course, titled "The Science of Better," was open to McDonogh students, faculty, administrators, parents and alumni from January 5–February 6, as part of an innovative curriculum series called McDonogh Works.



Colleen Hughes Driscoll, MD



Mary McKenna, PhD

► **Mary McKenna, PhD**, Professor, Department of Pediatrics, served on the Assessment Committee for a PhD thesis defense in the Department of Drug Design and Pharmacology, University of Copenhagen, Denmark, in January 2019. Separately, Dr. McKenna presented a talk on "Acetyl-L-carnitine Neuroprotection of Developing Brain in a Symposium on Brain Metabolism and Function," organized by the NeuroMet and Molecular and Cellular Pharmacology Groups in the Department of Drug Design and Pharmacology, and University of Copenhagen, Denmark, on January 17, 2019.

► **Samuel Tisherman, MD**, Professor, Department of Surgery, was among the speakers at the inaugural University of Maryland, Baltimore TEDx Program on November 9, 2018. Dr. Tisherman presented "A Cool Way to Save Dying Trauma Patients." **Sarah Murthi, MD**, Associate Professor, Department of Surgery, was also among the speakers. Dr. Murthi's presentation was titled "Seeing into the Future: Augmented and Virtual Reality in Medicine."



Samuel Tisherman, MD

Publications

Hats off to those who have been published!



Bridget Armstrong, PhD

► **Bridget Armstrong, PhD**, Postdoctoral Fellow, and **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, both from the Department of Pediatrics, were among the co-authors of "Bidirectional Effects of Sleep and Sedentary Behavior among Toddlers: A Dynamic Multilevel Modeling Approach," which was published in the *Journal of Pediatric Psychology* on November 22, 2018.



Nariman Balenga, PhD

► **Nariman Balenga, PhD**, Assistant Professor, Department of Surgery, was the first author 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 and Mineral Research* on January 28, 2019.



Kelley Banagan, MD

► **Kelley Banagan, MD**, Assistant Professor; **Eugene Koh, MD, PhD**, Associate Professor; **Steven Ludwig, MD**, Professor; and **Daniel Gelb, MD**, Professor; all from the Department of Orthopaedics, were senior authors of "Outcomes of Multi-Level Vertebrectomy for Spondylodiscitis," which was published in the February 2019 issue of the *Spine Journal*.



Cynthia Bearer, MD, PhD

► **Cynthia Bearer, MD, PhD**, Cobey Chair in Neonatology, Professor, Department of Pediatrics, co-authored "Prenatal Alcohol Exposure Prevalence as Measured by Direct Ethanol Metabolites in Meconium in a Native American Tribe of the Southwest," which was published in *Birth Defects Research* on January 15, 2019. Separately, Dr. Bearer co-authored "Human Disease Ontology 2018 Update: Classification, Content and Workflow Expansion," which was published in *Nucleic Acids Research* on January 8, 2019. In addition, Dr. Bearer, co-authored "Donor Blood Remains a Source of Heavy Metal Exposure," which was published in the January 2019 issue of *Pediatric Research*.



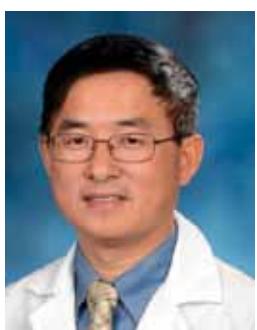
Maureen Black, PhD

► **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, published a chapter titled, "First 1000 Days and Beyond: Strategies to Achieve the Sustainable Development Goals"

in the book *Developmental Science and Sustainable Development Goals for Children and Youth*.

► **Sheila Boateng, MD**, Resident; **Nikki Tirada, MD**, Assistant Professor; and **Gauri Khorjekar, MBBS**, Assistant Professor; all from the Department of Diagnostic Radiology and Nuclear Medicine, were co-authors of "Excision or Observation: The Dilemma of Managing High-Risk Breast Lesions," which was published in *Current Problems in Diagnostic Radiology* on December 18, 2018.

► **Laura Bontempo, MD, MEd**, Assistant Professor, Department of Emergency Medicine, co-edited the February 2018 issue of *Emergency Medicine Clinics of North America*. In addition to contributing to the preface, Dr. Bontempo co-authored "Tracheostomy Emergencies" with **Sara Manning, MD**, Assistant Professor, Department of Emergency Medicine. **Amal Mattu, MD**, Professor, Department of Emergency Medicine, continues as the consulting editor for this journal and, in that capacity, wrote the foreword for this issue.



Ling Chen, BM, MMed, MD

► **Ling Chen, BM, MMed, MD**, Associate Professor; **Gil Wier, PhD**, Professor Emeritus; and **Mordecai Blaustein, MD**, Professor; all from the Department of Physiology, were among the co-authors of "Na⁺/Ca²⁺ Exchanger Overexpression in Smooth Muscle Augments Cytosolic Ca²⁺ in Femoral Arteries of Living Mice," which was published in the February 2019 issue of the *American Journal of Physiology-Heart and Circulatory Physiology*.

► **W. Andrew Eglseeder, MD**, Professor, Department of Orthopaedics, authored a new text book, *Atlas of Upper Extremity Trauma: A Clinical Perspective*. The book was published in 2018 by Springer.

► **Claire Fraser, PhD**, the Dean's Endowed Professor in the School of Medicine, Professor, Department of Medicine, Microbiology and Immunology, and Director, Institute for Genome Sciences; **Jacques Ravel, PhD**, Professor, Department of Microbiology and Immunology; **Owen White, PhD**, Professor, and **Lynn Schriml, PhD**, Associate Professor, both from the Department of Epidemiology & Public Health; all from the Institute for Genome Sciences, co-authored "Towards Unrestricted Usage of Public Genomic Data," which was published in *Science* on January 25, 2019.



Nikki Tirada, MD



Claire Fraser, PhD

Publications

Continued

► **Rao Gullapalli, PhD, MBA**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors of “Risk of Posttraumatic Stress Disorder and Major Depression in Civilian Patients After Mild Traumatic Brain Injury: A TRACK-TBI Study,” which was published in the *Journal of the American Medical Association Psychiatry* on January 30, 2019. Dr. Gullapalli also was among the co-authors of “The Feasibility of Integrating Resting-State fMRI Networks into Radiotherapy Treatment Planning,” which was published in the *Journal of Medical Internet Research* on November 13, 2018.



Rao Gullapalli, PhD, MBA

► **R. Frank Henn III, MD**, Associate Professor; **Nathan O’Hara, MHA**, Research Associate; **Robert O’Toole, MD**, The Hansjörg Wyss Medical Foundation Endowed Professor in Orthopaedic Trauma; and **Marcus Sciadini, MD**, Associate Professor; all from the Department of Orthopaedics, were among the co-authors of “Construct Validation of a Novel Hip Fracture Fixation Surgical Simulator,” which was published in the October 2018 issue of the *Journal of the American Academy of Orthopaedic Surgery*.



R. Frank Henn, MD

► **Julio Jauregui, MD**, and **William Shield, MD**, Resident Physicians; **Mohit Gilotra, MD**, Assistant Professor; and **R. Frank Henn III, MD**, and **S. Ashfaq Hasan, MD**, Associate Professors; all from the Department of Orthopaedics, were among the co-authors of “Reverse Shoulder Arthroplasty: Perioperative Considerations and Complications,” which was published in the August 2018 issue of *Journal of Bone and Joint Surgery Reviews*.



Mohit Gilotra, MD

► **Kimia Khalatbari Kani, MD**, Assistant Professor, Department of Diagnostic Radiology, was among the co-authors of the following articles: “Terrible Triad Injuries of the Elbow,” which was published in *Emergency Radiology* on January 28, 2019; “Imaging of Emphysematous Osteomyelitis,” which was published in *Physical Medicine and Rehabilitation* on January 17, 2019; and “Thoracic Cage Injuries,” which was published in the January 2019 issue of the *European Journal of Radiology*.

► **Tami Kingsbury, PhD**, Assistant Professor, Department of Physiology, Center for Stem Cell Biology & Regenerative Medicine;



Curt Civin, MD

Curt Civin, MD, Professor in the Departments of Pediatrics and Physiology, Director of the Center for Stem Cell Biology & Regenerative Medicine, and Associate Dean for Research; and **Min Jung Kim, PhD**, Research Associate, Department of Pediatrics, Center for Stem Cell Biology & Regenerative Medicine, were among the co-authors of “Advances in Cancer Research: Chapter One-Regulation of Cancer Stem Cell Properties by SIX1, a Member of the PAX-SIX-EYA-DACH Network,” which was published in *Advances in Cancer Research* on January 16, 2019.

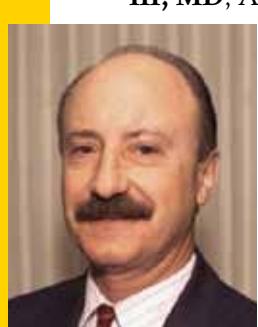


Eugene Koh, MD, PhD

► **Eugene Koh, MD, PhD**, Assistant Professor of Orthopaedics, was the senior author of “Origins of Eponymous Instruments in Spine Surgery,” which was published in the December 2018 issue of the *Journal of Neurosurgery: Spine*.

► **Logan Kolakowski, MD**, **Julio Jauregui, MD**, and **Andrew Dubina, MD**, Residents; **Derek Jones**, Laboratory Research Technician; **Katrina Williams**, Postdoctoral Fellow; **S. Ashfaq Hasan, MD**, and **R. Frank Henn III, MD**, Associate Professors; and **Mohit Gilotra, MD**, Assistant Professor; all from the Department of Orthopaedics, were among the co-authors of “Neer Award 2018: Benzoyl Peroxide Effectively Decreases Preoperative *Cutibacterium acnes* Shoulder Burden: A Prospective Randomized Controlled Trial,” which was published in the September 2018 issue of the *Journal of Shoulder and Elbow Surgery*.

► **Alberto Macario, MD**, and **Everly Conway de Macario, PhD**, both Adjunct Professors in the



Alberto Macario, MD

Department of Microbiology and Immunology, co-authored Chapter 12 in Volume 3 of the reference book *Stress: Physiology, Biochemistry, and Pathology*, which was published in January 2019.

► **Maggie Matern, BSc**, PhD candidate; **Yoko Ogawa, PhD**, Postdoctoral Fellow; **Béatrice Milon, PhD**, Research Supervisor; **Mark McMurray, MS**, Research Technician; and **Ronna Hertzano, MD, PhD**, Associate Professor; all from the Department of Otorhinolaryngology Head and Neck Surgery; and **Yang Song, PhD**, Bioinformatician, Institute for Genome Sciences, were among the co-authors of “Helios is a Key Transcriptional Regulator of Outer Hair Cell Maturation,” which was published in *Nature* on November 21, 2018.



Dirk Mayer, Dr rer nat

► **Dirk Mayer, Dr rer nat**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was last author of “Dynamic Metabolic Imaging of Copolarized [2-13C]pyruvate and [1,4-13C]Fumarate Using 3D-Spiral CSI with Alternate Spectral Band Excitation,” which was published in *Magnetic Resonance Medicine* on January 28, 2019.

► **Timothy Miller, MD**, Assistant Professor; **Dheeraj Gandhi, MBBS**, Professor; and **Gaurav Jindal, MD**, Associate Professor; all from the Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Pipeline Embolization of Vertebrobasilar Aneurysms—a Multicenter Case Series,” which was published in *World Neurosurgery* on January 2, 2019. Drs. Miller and Gandhi were also co-authors of “Comparative Effectiveness Analysis of Pipeline Device versus Coiling in Unruptured Aneurysms Smaller than 10 mm,” which was published in the January 2019 issue of *Journal of Neurosurgery*.



Dheeraj Gandhi, MBBS

► **Jason Nascone, MD**, **Marcus Sciadini, MD**, and **Theodore Manson, MD**, Associate Professors; **Christopher LeBrun, MD**, Assistant Professor, and **Robert O’Toole, MD**, The Hansjörg Wyss Medical Foundation Endowed Professor in Orthopaedic Trauma; all from the Department of Orthopaedics, were among the co-authors of “Prediction of Tibial Nonunion at the 6-Week Time Point,” which was published in the November 2018 issue of *Injury*.



Jason Nascone, MD

► **Nathan O’Hara, MHA**, Research Associate, and **Joshua Abzug, MD**, Associate Professor, both from the Department of Orthopaedics, were among the co-authors of “Normal Ranges of Upper Extremity Length, Circumference, and Rate of Growth in the Pediatric Population,” which was electronically published ahead of print on February 1, 2019, in *Hand (NY)*. Separately, Dr. O’Hara, **Theodore Manson, MD**, Associate Professor, and **Robert O’Toole, MD**, The Hansjörg Wyss Medical Foundation Endowed Professor in Orthopaedic Trauma; all from the Department of Orthopaedics, were among the co-authors of “Radiographic Predictors of Symptomatic Locking Screw Removal after Treatment of Tibial Fractures with Intramedullary Nails,” which was published in the December 2018 issue of *Injury*. In addition, Drs. O’Hara, Manson, and O’Toole were among the co-authors of “Variations in the Organisms Causing Deep Surgical Site Infections in Fracture Patients at a Level I Trauma Center (2006–2015),” which was published in the December 2018 issue of the *Journal of Orthopaedic Trauma*. Drs. O’Hara and O’Toole were also among the co-authors of “Risk Factors for Knee Stiffness Surgery after Tibial Plateau Fracture Fixation,” which was published in the September 2018 issue of the *Journal of Orthopaedic Trauma*.



Joshua Abzug, MD

► **Prashant Raghavan, MD**, Associate Professor and **Loreenna Vidal, MD**, Assistant Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were co-authors of “Beyond the Spinal Canal,” which was published in January 2019 issue of *Radiologic Clinics of North America*.

► **Marcus Sciadini, MD**, Associate Professor, Department of Orthopaedics, was the senior author of “The Use of External Fixation for the Management of the Unstable

Publications

Continued

Anterior Pelvic Ring," which was published in the September 2018 supplement of the *Journal of Orthopaedic Trauma*.

► **David Serre, PhD**, Associate Professor, Department of Microbiology and Immunology, Institute of Genome Sciences, was among the authors of "Plasmodium Vivax Transcriptomes Reveal Stage-Specific Chloroquine Response and Differential Regulation of Male and Female Gametocytes," which was published in *Nature Communications* on January 22, 2019.



Marcus Sciadini, MD



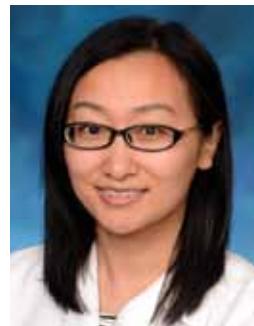
Eliot Siegel, MD

► **Eliot Siegel, MD**, Professor, Department of Diagnostic Radiology and Nuclear Medicine, was the author of "What Can We Learn from the RSNA Pediatric Bone Age Machine Learning Challenge?" which was published in the February 2019 issue of *Radiology*.

► **Xuyang Song, MD**, Resident, and **Joshua Abzug, MD**, Associate Professor, both from the Department of Orthopaedics, were the lead author and senior author, respectively, of "Pediatric Emergency Room Transfers: Are They Warranted?" which was published in the *Journal of Pediatric Orthopaedics* on January 25, 2019.

► **Charles White, MD**, Professor, and **Rong Chen, PhD**, Assistant Professor, both from the Department of Diagnostic Radiology and Nuclear Medicine, were co-authors of "Vancouver Risk Calculator

Compared with ACR Lung-RADS in Predicting Malignancy: Analysis of the National Lung Screening Trial," which was published in *Radiology* on January 22, 2019.



Huijun Xu, PhD

► **Huijun Xu, PhD**, Assistant Professor; **Sung-Woo Lee, PhD**, Assistant Professor; **Mariana Guerrero, PhD**, Clinical Associate Professor; **Byong Yong Yi, PhD**, Professor; **Shifeng Chen, PhD**, Associate Professor; **Stewart**

Becker, PhD, Assistant Professor; and **Sally Cheston, MD**, Assistant Professor; all from the Department of Radiation Oncology, were among the authors of "Dosimetric Effects of the kV Based Image-Guided Radiation Therapy of Prone Breast External Beam Radiation: Towards the Optimized Imaging Frequency," which was e-published in the *Journal of Applied Clinical Medical Physics* on December 14, 2018.

► **Li-Qun Zhang, PhD**, Professor, Department of Physical Therapy and Rehabilitation Science, was among the co-authors of "Learning Patterns of Pivoting Neuromuscular Control Training under Slippery Conditions: A Learning Model for Therapy Scheduling," which was published in *IEEE Transactions on Biomedical Engineering* on February 1, 2019.



Charles White, MD



Li-Qun Zhang, PhD

New Faculty

We welcome our new faculty!



Idris Amin, MD,
CAQAM, FAAPMR

► With a primary appointment in the Department of Neurology, **Idris Amin, MD, CAQAM, FAAPMR**, accepted a secondary appointment in the Department of Orthopaedics as an Assistant Professor and sports medicine physiatrist in September 2018. Dr. Amin received his medical degree from the State University of New York, Downstate College of Medicine in Brooklyn, N.Y. He completed a physical medicine and rehabilitation residency at the Rusk Institute of Rehabilitation Medicine, New York University Langone Medical Center, New York, N.Y. Dr. Amin also completed a sports medicine fellowship at New York-Presbyterian Hospital, New York, N.Y. His research interests include regenerative therapies to treat musculoskeletal disorders and musculoskeletal ultrasonography.

► With a primary appointment in the Department of Neurology, **Kendall Buraimoh, MD**, accepted a secondary appointment in the Department of Orthopaedics as an Assistant Professor and spine physiatrist in September 2018. She received her medical degree from Boston University School of Medicine, Boston, Mass., and completed an internship at St. Mary Mercy Hospital in Livonia, Mich. She then completed residency in physical medicine and rehabilitation at the University of Michigan Hospital, Ann Arbor, Mich. Her research interests include spine physiatry.



Kendall Buraimoh, MD

works at Orthopaedics Research. He received his PhD degree in biomedical engineering from Columbia University, New York, N.Y., and completed a surgery fellowship at Stanford University, Stanford, Calif. Dr. Jiang also completed a bioengineering fellowship at the University of California-Los Angeles, Los Angeles, Calif. His research interests include molecular biology, gene expression, and immunohistochemistry.

► **Christopher Langhammer, MD, PhD**, joined the Department of Orthopaedics as an Assistant Professor in September 2018. He received his medical degree from the University of Medicine and Dentistry of New Jersey, Newark, N.J., and completed his residency at the University of California San Francisco Medical Center, San Francisco, Calif. He then completed a hand surgery fellowship at Massachusetts General Hospital, Boston, Mass. His research interests include traumatology and upper extremity reconstruction.



Natalie Leong, MD

► **Natalie Leong, MD**, joined the Department of Orthopaedics as an Assistant Professor in September 2018. She received her medical degree from Harvard Medical School, Boston, Mass., and completed an internship and orthopaedic surgery residency at University of California-Los Angeles, Los Angeles, Calif. Dr. Leong also completed a sports medicine fellowship at Rush University Medical Center, Chicago, Ill. Her research interests include translational ligament tissue engineering and regeneration and the development of new treatments using stem cells; and engineered biodegradable scaffolds to help heal ligament and tendon injuries.



Michael Zarro, PT, DPT, SCS, CSCS

► With a primary appointment in Physical Therapy and Rehabilitation Science, **Michael Zarro, PT, DPT, SCS, CSCS**, accepted a secondary appointment in the Department of Orthopaedics as an Assistant Professor in August 2018. He received his Doctor of Physical Therapy degree from the University of Maryland, Baltimore. His research interests include sports physical therapy, running injuries, post-concussion syndrome, and anterior cruciate ligament and throwing injuries.



Jie Jiang, PhD

► **Jie Jiang, PhD**, joined the Department of Orthopaedics as an Assistant Professor in July 2018. She received her medical degree from Rutgers Robert Wood Johnson Medical School, New Brunswick, N.J. and completed her orthopedic surgery residency at New York University Hospital for Joint Diseases, New York, N.Y. Dr. Jiang also completed a fellowship in foot and ankle surgery at Baylor University Medical Center in Dallas, Tex. Her research interests include therapeutic approaches to skeletal muscle repair and healing and bone response to synthetic bone grafting material.

Grants & Contracts

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



Joana Carneiro da Silva, PhD

► **Joana Carneiro da Silva, PhD**, Associate Professor, Department of Microbiology and Immunology, Institute of Genome Sciences, received a four-year, \$3,577,550 R01 award from National Institute of Allergy and Infection Diseases (NIAID/NIH) for “Genome-Wide Sieve Analysis and Immunological Validation to Identify Targets of Protective Efficacy in Field Trials of a Whole-Organism Malaria Vaccine.”

► **Niel Constantine, PhD**, Professor of Pathology, Institute of Human Virology, was awarded \$457,395 for one year to support efforts for “The USAID Global Health Supply Chain QA Program” to assess the performance characteristics of diagnostic test kits and to provide technical assistance.



Niel Constantine, PhD



Achsah Keegan, PhD

► **Achsah Keegan, PhD**; Professor, Department of Microbiology and Immunology, Center for Vascular and Inflammatory Diseases; **Rose Viscardi, MD**, Professor, Department of Pediatrics; and **Stefanie Vogel, PhD**, Professor, Department of Microbiology and Immunology, received a five-year, \$3,053,150 grant from the National Institute of Allergy and Infectious Diseases (NIAID/NIH) for “IL-4-Activated Macrophages: Contribution to Allergic Lung Inflammation Linked to Viral Infection.”



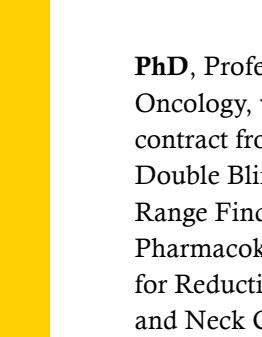
Thomas MacVittie, PhD

► **Mary Kay Lobo, PhD**, Associate Professor, Department of Anatomy and Neurobiology, received a five-year, \$2,171,420 grant from the National Institute of Drug Abuse (NIDA/NIH) for “Ventral Pallidum Molecular Mediators in Cocaine Addiction.”



Mary Kay Lobo, PhD

► **Thomas MacVittie, PhD**, Professor, Department of Radiation Oncology, was awarded a \$2,599,626 subcontract from SRI International for “Assess the Efficacy of Filgrastim (Neupogen®) or Peg-Filgrastim (Neulasta®) on Mitigating Co-Morbidities and Mortality of Multi-Organ Injury (MOI) Associated with Concurrent GI-ARS, Prolonged GI Injury and Delayed Effects to Lung and Kidney Characteristic of the DEARE in NHP Exposed to 10 Gy Using the PBI/BM 2.5 Protocol.”



► **Robert Malyapa, MD, PhD**, Professor, Department of Radiation Oncology, was awarded a \$636,804 contract from Matrix Biomed Inc. for “A Double Blind, Placebo Controlled Dose Range Finding Study to Assess the Safety, Pharmacokinetics, and Efficacy of Tempol for Reduction of Severe Mucositis in Head and Neck Cancer Patients Undergoing Combined Radio- and Chemotherapy.”



Robert Malyapa, MD, PhD



Mary-Claire Roghmann, MD, MS

► **Mary-Claire Roghmann, MD, MS**, Professor, Department of Epidemiology & Public Health, received a two-year, \$36,710 subcontract from the University of Utah for “Epicenters for the Prevention of Healthcare-Associated Infections (HAIs); Cycle II Multicenter Program Studies.” This award is a federal passthrough from the Centers of Disease Control and Prevention.



Zeljko Vujaskovic, MD, PhD

► **David Serre, PhD**, Associate Professor, Department of Microbiology

and Immunology, Institute of Genome Sciences, received two two-year, \$275,000 R21 awards from the National Institute of Allergy and Infection Diseases (NIAID/NIH) for “Comprehensive Characterization of Intestinal Parasites in Infants and Their Impact on Diarrhea” and “Analyses of Transcriptomes from Individual *Plasmodium* Sporozoites Using scRNA-seq.”

► **Zeljko Vujaskovic, MD, PhD**, Professor, Department of Radiation Oncology, was awarded a \$62,044 service agreement with Matrix Biomed Inc. for “United States Medical Monitor for The Matrix Clinical Trial: A Double Blind, Placebo Controlled Dose Range Finding Study to Assess the Safety, Pharmacokinetics, and Efficacy of Tempol For Reduction of Severe Mucositis in Head and Neck Cancer Patients Undergoing Combined Radio- and Chemotherapy.”

Separately, Dr. Vujaskovic received a \$93,258 subaward from RipTide BioScience for “Validation and Optimization of RP-185 as Adjuvant to Exploit the Immune Response Generated by Radiation.” Dr. Vujaskovic also received a \$99,900 subaward from Biological Mimetics Inc. for “Mitigation of Radiation Sickness Using a Novel Manganese-Peptide Complex.”

► **Kelly Westlake, PhD, MSc, PT**, Assistant Professor, Department of Physical Therapy and Rehabilitation Science, was awarded a two-year, \$77,250 grant from the National Institutes of Health (NIH) for “Influence of Attentional Control on Protective Arm Responses to Balance Perturbations in Older Adults.”



Li-Qun Zhang, PhD

► **Li-Qun Zhang, PhD**, Professor, Department of Physical Therapy and Rehabilitation Science, was awarded a one-year, \$50,000 commercial contract grant with the sponsor Acute Innovations for “UMB Project in Acute Innovations Biomechanical Testing.” Dr. Zang also received a one-year, \$110,000 subcontract from Rehabtek (NIDILRR SBIR) for “Development of Wearable Robot for Motor Rehabilitation in Acute Stroke.”



Kelly Westlake, PhD, MSc, PT

Appointments

We applaud our colleagues on their recent appointments!



Claire Fraser, PhD

► **Claire Fraser, PhD**, the Dean's Endowed Professor in the School of Medicine, Professor, Medicine, Microbiology and Immunology and Director, Institute for Genome Sciences, has been chosen as president-elect of the American Association for the Advancement of Science (AAAS). Dr. Fraser began her term on February 18, 2019 after the AAAS Annual Meeting in Washington, D.C., serving for one year as president-elect, one year as president and one year as chair of the AAAS Board of Directors.

► **Iris Lindberg, PhD**, Professor, Department of Anatomy and

Neurobiology, was elected as an American Association for the Advancement of Science (AAAS) Fellow in recognition of her achievements in advancing science. The induction ceremony was held at the 2019 AAAS Annual Meeting in Washington, D.C. on February 16, 2019.



Iris Lindberg, PhD



Maureen McCunn, MD, MIPP, FCCM, FASA

► **Maureen McCunn, MD, MIPP, FCCM, FASA**, Professor, Department of Anesthesiology, Program in Trauma, has been named the Chair of American Society of Anesthesiologists (ASA) Committee on Trauma and Emergency Preparedness.

► **Rebekah Owens, LMT, BCTMB, PR** Specialist and Massage Therapist, Center for Integrative Medicine, was appointed to the Board of Directors of the National Certification Board for

Therapeutic Massage and Bodywork. She will serve a minimum of two years on the Board.

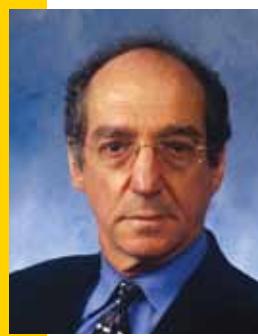
► **Lee-Ann Wagner, MD**, Assistant Professor, Department of Medicine, was nominated and appointed as President Elect for the Society of Hospital Medicine (SHM) Maryland Chapter.



Lee-Ann Wagner, MD

Honors & Awards

Congratulations to the following who have received honors!



Gad Alon, PT, PhD

► **Gadi Alon, PT, PhD**, Associate Professor Emeritus, Department of Physical Therapy and Rehabilitation Science, was named an Elite Reviewer by the journal *Archives of Physical Medicine & Rehabilitation* for 2018.

► **Daniel Morgan, MD**, Associate Professor, Department of Epidemiology & Public Health, was chosen by the American College of Physicians, to receive the Mary Betty Stevens Award, for his contributions in clinical research. Dr. Morgan was presented with the Mary Betty Stevens Award on February 1, 2019.



Daniel Morgan, MD, MS



David Rasko, PhD

► **David Rasko, PhD**, Professor, Department of Microbiology & Immunology, Institute for Genome Sciences, has been elected to Fellowship in the American Academy of Microbiology.

► **Richard Zhao, PhD**, Professor, Department of Pathology, has been elected to Fellowship in the American Academy of Microbiology.



Richard Zhao, 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/>

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Research Communications Network

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