



What's the Buzz?

FEBRUARY 2017 VOL.19 NO.2

SELF-REPORTED NEWS from the SCHOOL OF MEDICINE COMMUNITY

Grants & Contracts

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



Donna Calu, PhD

- ▶ **Donna Calu, PhD**, Assistant Professor, Department of Anatomy & Neurobiology, received a three year, \$300,000 McKnight Memory and Cognitive Disorders Award for her investigation of “Individual Differences in Attention Signaling in Amygdala Circuits.”
- ▶ **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, received a two-year, \$967,543 award from the Governor’s Office of Crime Control & Prevention for providing mental health services to “Victims of Child Maltreatment.” The kudos go to **April Rectanus, MA, LCPC**, Director of the Care Clinic, and the clinic team. Dr. Dubowitz also received a one-year, \$33,564 award from the Governor’s Office of Crime Control & Prevention for “Child Maltreatment Training for Law Enforcement.”
- ▶ **Karen Gordes, PhD, DScPT, PT**, Assistant Professor and Director of Faculty and Student Affairs, Department of Physical Therapy and Rehabilitation Science, has received an Interprofessional Education (IPE) Faculty Award. The IPE seed grant in the amount of \$1,000 was awarded for her application, “Novel Partnerships for Interprofessional Education: Building Collaboration Between Information System Students Specializing In 3D Technology And Physical Therapy Students.”
- ▶ **L. Elliot Hong, MD**, Professor of Psychiatry, Maryland Psychiatric Research Center (MPRC), recently received the prestigious NARSAD Distinguished Investigator Award, worth \$100,000. In this project, Dr. Hong plans to build a synchronized electro-chemical map of the brain to display how these signals regulate neural activity.

- ▶ **Hao Yuan Hsiao, PhD**, University of Maryland Advanced Neuromotor Rehabilitation Research Training (UMANRRT) Postdoctoral Fellow, Department of Physical Therapy and Rehabilitation Science, received a grant from the MERCE Pilot Project in the amount of \$20,000 for his project “Neuromuscular and Biomechanical Control of Lower Limb Loading in Individuals with Chronic Stroke.”
- ▶ **Isabel Jackson, PhD**, Assistant Professor, Department of Radiation Oncology, received a \$252,918 grant from Varian Medical Systems, Inc., as PI for “Proof of Concept Study to Assess the Efficacy of Ultra-High-Dose-Rate Pulsed Proton Therapy (FLASH-P) to Mitigate Normal Tissue Toxicity Induced by Thoracic Irradiation.”
- ▶ **Mona Kaleem, MD**, Assistant Professor, and **Laura Andrews, MD**, Resident, both from the Department of Ophthalmology & Visual Sciences, received a two-year, \$28,000 grant from the Abell Foundation for “Examining the Burden of Ophthalmic Disease in the Underserved in Baltimore.”
- ▶ **Dirk Mayer, Dr rer nat**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, was awarded a two-year, \$369,325 R21 grant from the National Cancer Institute for “Hyperpolarized ¹³C Imaging of Mitochondrial Metabolism for Improved Characterization of Prostate Cancer.” The research will address the current need for improved risk-stratification of prostate cancer by developing



Isabel Jackson, PhD



Mona Kaleem, MD

Grants & Contracts *continued*



Dirk Mayer, Dr rer nat

a noninvasive imaging method to monitor and characterize tumor-specific metabolic differences and changes in response to therapies. This type of innovative imaging will provide an exciting new tool to aid in diagnosis, evaluation and optimization of therapeutic regimens, and result in more personalized, disease-specific care for prostate cancer patients.

► **Gerard Slobogean, MD**, Assistant Professor, Department of Orthopaedics, was awarded \$150,000 from the Orthopaedic Trauma Association Research Committee for “A Blinded Exploratory Randomized Controlled Trial to Determine



Gerard Slobogean, MD

Optimal Vitamin D3 Supplementation Strategies for Acute Fracture Healing.” Dr. Slobogean will serve as Co-Principal Investigator with Dr. Sheila Sprague of McMaster University for the research period of January 1, 2017, through December 31, 2019.

► **Stefanie Vogel, PhD**, Department of Microbiology and Immunology, has been awarded a five-year, \$2,727,307 NIH R01 grant for “Macrophage Differentiation and Disease Outcome in Influenza Infection.”



Stefanie Vogel, PhD

New Faculty

We welcome our new faculty!

► **Seth Ament, PhD**, joined the Department of Psychiatry and the Institute for Genome Sciences as an Assistant Professor on September 19, 2016. Dr. Ament received his PhD in Neuroscience in 2010 from the University of Illinois. He was previously a Postdoctoral Fellow at the Institute for Systems Biology, Seattle, WA.

► **Vahid Etezadi, MD, MRCS, DABR**, has joined the Department of Diagnostic Radiology & Nuclear Medicine as an Assistant Professor in the interventional radiology section. Dr. Etezadi received his medical degree from Tehran University of Medical Sciences, School of Medicine in Iran. He completed a residency in General Surgery at the University Hospital of Wales, Cardiff, and South Mead Hospital in Bristol, UK and a residency in Radiology at the Hospital of the University of Pennsylvania in Philadelphia, along with a Fellowship in Interventional Radiology in the same institution. His clinical and research focus is in the areas of peripheral vascular disease and interventional oncology.

► **Rishi Gupta, MBBS, DCh, MD**, joined the Department of Pediatrics as an Assistant Professor in late 2016, and will work primarily in the Division of Gastroenterology & Nutrition. Dr. Gupta received his MBBS from the University College of Medical Sciences at the University of Delhi,

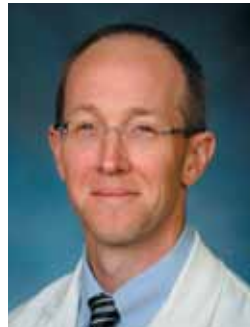
India (1997). He did a Medical Internship there, as well (1/1998–12/1998). He followed this with a Residency in Pediatrics (DCh Pediatrics) at the Vardhman Mahavir Medical College (VMMC) and Safdarjung Hospital in New Delhi, India (2000–2002); a Residency in Pediatrics (MD Pediatrics) at Lady Hardinge Medical College at the University of Delhi, India (2003–2005); and a Residency in Pediatrics at Maimonides Medical Center and State University of New York (SUNY) Downstate, NY (2006–2008). He completed a Fellowship in Pediatric Endocrinology, Metabolism and Diabetes at SUNY Downstate Brooklyn, NY (2008–2011), then followed that with a combined Fellowship in Pediatric Gastroenterology and Transplant Hepatology at the Icahn School of Medicine at Mount Sinai Medical Center in New York, NY (2011–2013).

► **David Serre, Dr rer nat**, joined the Department of Microbiology & Immunology and the Institute for Genome Sciences as an Associate Professor on October 1, 2016. In 2004, Dr. Serre received his Dr rer nat in Biology from the Max-Planck Institute for Evolutionary Anthropology in Germany. He was previously an Associate Staff at the Cleveland Clinic Genomic Medicine Institute and an Associate Professor in the Cleveland Clinic Lerner College of Medicine of CWRU and the Department of Genetics and Genome Sciences at Case Western Reserve University.

Publications

Hats off to those who have been published!

► **Hussain Alhashem, MBBS**, a 2016 graduate of the emergency medicine residency at the University of Maryland Medical Center, **Carmen Avendano, MD**, a third-year emergency medicine resident, **Bryan Hayes, PharmD**, a former Clinical Assistant Professor, Department of Emergency Medicine (now at Harvard University), and **Michael Winters, MD**, Associate Professor, Department of Emergency Medicine, published the case report “Persistent Life-Threatening Hemorrhage After Administration of Idarucizumab” in *American Journal of Emergency Medicine*, 2016, 35:193.e3-5.



Michael Winters, MD

► **Shahed Badiyan, MD**, Assistant Professor, Department of Radiation Oncology, was among the co-authors on “An Oncologist’s Perspective on the Affordable Care Act” in *American Journal of Clinical Oncology*, 2016 Nov 23 [Epub ahead of print].



Shahed Badiyan, MD

► **Dayanand Bagdure, MD, MBBS, MPH**, Assistant Professor, Department of Pediatrics was among the co-authors on “Enterovirus D68 in Critically Ill Children: A Comparison With Pandemic H1N1 Influenza” in *Pediatric Critical Care Medicine*, 2016 Nov;17(11):1023-1031.



Dayanand Bagdure, MD, MBBS, MPH

► **Elizabeth Balcer-Kubiczek, PhD**, Associate Professor, Department of Radiation Oncology, co-authored “The Role of the Apoptotic Machinery in Ionizing Radiation-Induced Carcinogenesis” in *Critical Reviews in Oncogenesis*, 2016;21(3-4):169–184.

► **Neha Bhooshan, MD, PhD**, Resident, Department of Radiation Oncology, **Paul Staats, MD**, Associate Professor, Department of



Amy Fulton, PhD

Pathology, **Amy Fulton, PhD**, Professor, Department of Pathology, and **Martin Edelman, MD**, Professor, Department of Medicine, were among the co-authors on “Prostaglandin E Receptor EP4 Expression, Survival and Pattern of Recurrence in Locally Advanced NSCLC” in *Lung Cancer*, 2016 Nov;101:88-91.

► **Adnan Bhutta, MBBS, FAAP**, Associate Professor, Department of Pediatrics was the senior author on



Adnan Bhutta, MBBS, FAAP

“Catheter-Associated Blood Stream Infections in Intracardiac Lines” in *Journal of Pediatric Intensive Care*, 2016 Dec 5 [Epub ahead of print]; “School-Age Test Proficiency and Special Education After Congenital Heart Disease Surgery” in *Infancy in The Journal of Pediatrics*, 2016 Nov;178:47-54; and “Optimizing Team Dynamics: An Assessment of Physician Trainees and Advanced Practice Providers Collaborative Practice” in *Pediatric Critical Care Medicine*, 2016 Sep;17(9):e430-6.

► **Stephen Cai**, fourth-year medical student, **Rainer von Ceolln, Dr Med**, Assistant Professor of Neurology, and **Theresa Kouo, MD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors on “Migratory Stroke-Like Lesions In a Case of Adult-Onset Mitochondrial Encephalomyopathy, Lactic Acidosis, and Stroke-Like Episodes (MELAS) Syndrome and a Review of Imaging Findings” in *Radiology Case Reports*, 2016 Oct 5;11(4):425-429.



Shifeng Chen, PhD

► **Shifeng Chen, PhD**, Assistant Professor, Department of Radiation Oncology, was among the co-authors on “Prostate Bed Target Interfractional Motion Using RTOG Consensus Definitions and Daily CT on Rails: Does Target Motion Differ Between Superior and Inferior Portions

Publications *continued*

of the Clinical Target Volume?” in *Strahlentherapie und Onkologie*, 2017 Jan;193(1):38-45.



Chris D'Adamo, PhD

► **Chris D'Adamo, PhD**, Assistant Professor of Family and Community Medicine and Epidemiology and Public Health, and Director of Research, Center for Integrative Medicine, was lead author on “The CAPN2/CAPN8 Locus on Chromosome 1q Is Associated with Variation in Serum Alpha-Carotene Concentrations” in *Journal of Nutrigenetics and Nutrigenomics*, 2016 Dec. [Epub ahead of print]. Co-authors include experts from the Department of Medicine, an NIH SPORT trainee, the VA, GRECC, and Johns Hopkins.

► **Andrew Dubina, MD**, Intern, was the lead author, and **Ebrahim Paryavi, MD**, Assistant Professor, **Theodore Manson, MD**, Associate Professor, and **Robert O'Toole, MD**, the Hansjörg Wyss Medical Foundation Professor in Orthopaedic Trauma, all from the Department of Orthopaedics, were among the co-authors on “Surgical Site Infection in Tibial Plateau Fractures with Ipsilateral Compartment Syndrome” in *Injury*, 2016 Oct 18 [Epub ahead of print].



Daniel Gelb, MD

► **Daniel Gelb, MD**, Professor; **Jason Nascone, MD**, Associate Professor; **Robert O'Toole, MD**, the Hansjörg Wyss Medical Foundation Professor in Orthopaedic Trauma; and **Steven Ludwig, MD**, Professor, all from the Department of Orthopaedics, were among the co-authors on “Does Lumbopelvic Fixation Add Stability? A Cadaveric Biomechanical Analysis of an Unstable Pelvic Fracture Model” in *Journal of Orthopaedic Trauma*, 2017;31(1):37-46. Dr. Ludwig was also a co-author on “Finding the Right Fit: Studying the Biomechanics of Under-Tapping with Varying Thread Depths and Pitches” in *The Spine Journal*, 2016 Dec 1 [Epub ahead of print].

► **Michelle Hines, PharmD, BCPS**, Clinical Assistant Professor; **Brent Reed, PharmD**, Assistant Professor; and **Vijay Ivaturi, PhD**, Research Assistant Professor, University of Maryland School of Pharmacy; and **Laura Bontempo, MD, MEd**, Assistant Professor; **Michael Bond, MD**, Associate Professor; and **Bryan Hayes, PharmD**, formerly Assistant Clinical Professor, all from the Department of Emergency Medicine, were among



Michael Bond, MD

the co-authors on “Diltiazem Versus Metoprolol for Rate Control in Atrial Fibrillation with Rapid Ventricular Response in the Emergency Department” in *American Journal of Health-System Pharmacy*, 2016 Dec;73[24]:2068-2076. Based on their retrospective review of 100 patients' records, the authors found that the most significant predictor of medication selection in the ED was the drug class used for rate control before the ED admission.

► **Hao Yuan Hsiao, PhD**, a University of Maryland Advanced Neuromotor Rehabilitation Research Training (UMANRRT) Postdoctoral Fellow in the Department of Physical Therapy and Rehabilitation Science, was among the co-authors on “A Single Session of FES-Assisted Walking Produces Changes in Corticomotor Symmetry That Are Related to Changes in Post-Stroke Walking Mechanics” in *Physical Therapy Journal*.

► **Isabel Jackson, PhD**, Assistant Professor, and **Zeljko Vujaskovic, MD, PhD**, Professor, both in the Department of Radiation Oncology, and **Søren Bentzen, PhD, DMSc**, Professor, Department of Epidemiology & Public Health, were among the co-authors on “Pathophysiological Mechanisms Underlying Phenotypic Differences in Pulmonary Radioresponse” in *Scientific Reports*, 2016 Nov 15;6:36579.

► **Jean Jeudy, MD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors on “Tired in the Reading Room:

The Influence of Fatigue in Radiology” in *Journal of the American College of Radiology*, 2016 Dec 4 [Epub ahead of print], and “Quarterly Reporting of Computed Tomography Ordering History Reduces the Use of Imaging in an Emergency Department” in *Journal of Emergency Medicine*, 2016 Dec 9 [Epub ahead of print].

► **Xiaofeng Jia, BM, PhD**, Associate Professor, Departments of Neurosurgery, Orthopaedics, Anatomy and Neurobiology was the senior



Xiaofeng Jia, BM, PhD



Zeljko Vujaskovic, MD, PhD

Publications *continued*

author on “Stem Cell Transplantation for Peripheral Nerve Regeneration: Current Options and Opportunities” in *International Journal of Molecular Science*, 2017 Jan 5 [Epub ahead of print].



Gaurav Jindal, MD

► **Gaurav Jindal, MD**, Assistant Professor; **Timothy Miller, MD**, Assistant Professor; **Prashant Raghavan, MD**, Associate Professor; and **Dheeraj Gandhi, MBBS**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Imaging Evaluation and Treatment of Vascular Lesions at the Skull Base” in *Radiology Clinics of North America*, 2017 Jan;55(1):151-166.

► **Peter Kochunov, PhD, MS, MSEE, DABMP**, Professor, was recently the lead author on “Diffusion-Weighted Imaging

Uncovers Likely Sources of Processing-Speed Deficits In Schizophrenia,” along with **Laura Rowland, PhD**, Associate Professor, **George Eskandar, BS**, Research Assistant, **Xiaoming Du, BS**, Postdoctoral Fellow, **Florian Muellerklein, BS**, Research Assistant, **Anya Savransky, BS**, Research Assistant, **Dinesh Shukla, PhD**, Assistant Professor, **Hemalatha Sampath, MS**, Research Associate, and **L. Elliot Hong, MD**, Professor, of the Maryland Psychiatric Research Center

(MPRC) and the Department of Psychiatry. It was published in *Proceedings of the National Academy of Sciences of the United States of America* (PNAS). Research findings highlight non-Gaussian diffusion white matter metrics as surrogate imaging markers for modeling cognitive deficits, which will improve upon the development of more effective treatments for schizophrenia.

► **Wei Lu, PhD**, Clinical Assistant Professor, Department of Radiation Oncology, and **Wengen Chen, MD, PhD**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, co-authored “Positron Emission



Wei Lu, PhD



Peter Kochunov, PhD, MS, MSEE, DABMP

Tomography/Computerized Tomography for Tumor Response Assessment-A Review of Clinical Practices and Radiomics Studies” in *Translational Cancer Research*, 2016 Aug;5(4):364-370.



Robert Malyapa, MD, PhD

► **Robert Malyapa, MD, PhD**, Professor, Department of Radiation Oncology, was among the authors on “Effect of Anatomic Changes on Pencil Beam Scanned Proton Dose Distributions for Cranial and Extracranial Tumors” in *International Journal of Radiation Oncology, Biology, Physics*, 2017 Mar 1;97(3):616-623.

► **Minesh Mehta, MB, ChB**, Adjunct Professor, Department of Radiation Oncology, was among the co-authors on “Estimating Survival In Patients With Lung Cancer and Brain Metastases: An Update of the Graded Prognostic Assessment for Lung Cancer Using Molecular Markers (Lung-molGPA)” in *JAMA Oncology*, 2016, Nov 17 [Epub ahead of print], and on “Radiation Therapy For Glioblastoma: American Society of Clinical Oncology Clinical Practice Guideline Endorsement of the American Society For Radiation Oncology Guideline” in *Journal of Clinical Oncology*, 2017 Jan 20;35(3):361-369. He also was the senior author on “Phase III Randomized Study of Radiation and Temozolomide Versus Radiation and Nitrosourea Therapy for Anaplastic Astrocytoma: Results of NRG Oncology RTOG 9813” in *NeuroOncology*, 2016 Dec [Epub ahead of print].



Minesh Mehta, MB, ChB



Andrea Meredith, PhD

► **Andrea Meredith, PhD**, Associate Professor, Department of Physiology, co-authored “BK Channels are Required For Multisensory Plasticity In the Oculomotor System” in *Neuron*, 2016 Dec 2 [Epub ahead of print].

► **Timothy Miller, MD**, Assistant Professor, **Jiachen Zhuo, PhD**, Assistant Professor, **Gaurav Jindal, MD**, Assistant Professor,



Jiachen Zhuo, PhD

Publications *continued*

Ravi Shivashankar, MD, Fellow, and **Dheeraj Gandhi, MBBS**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, along with **Narlin Beatty, MD**, Neurosurgery Resident, co-authored “The Efficacy of Shielding Systems for Reducing Operator Exposure during Neurointerventional Procedures: A Real-World Prospective Study” in *AJNR–American Journal of Neuroradiology*, 2016 Dec 22 [Epub ahead of print].

► **Jason Molitoris, MD**, Resident, **William Regine, MD**, Professor and Chair, and **Steven Feigenberg, MD**, Professor, all from the Department of Radiation Oncology, and **Martin Edelman, MD**, Professor, Department of Medicine, were the co-authors on “Whole-Brain Radiation in the Treatment of Brain Metastases In ALK-Positive Non-Small-Cell Lung Cancer” in *Journal of Clinical Oncology*, 2016 Dec 28 [Epub ahead of print].



William Regine, MD



Jason Nascone, MD

► **Jason Nascone, MD**, Associate Professor; **Marcus Sciadini, MD**, Associate Professor, and **Robert O’Toole, MD**, the Hansjörg Wyss Medical Foundation Professor in Orthopaedic Trauma, all from the Department of Orthopaedics, were among the co-authors on “Can Applied External Fixators Be Sterilized for Surgery? A Prospective Cohort Study in Orthopaedic Trauma Patients” in *Injury*, 2016;47(12):2679-2682. Dr. O’Toole and **Theodore Manson, MD**, Associate Professor, Department of Orthopaedics, were the senior authors on “Are Antibiotic Nails Effective in the Treatment of Infected Tibial Fractures?” in *Injury*, 2016;47(12):2809-2815.

► **Kathleen Neuzil, MD, MPH**, Professor of Medicine and Director, Center for Vaccine Development, and Deputy Director, Institute for Global Health, was the author of “The Art And Science Of Delivering Influenza Vaccines” in



Kathleen Neuzil, MD, MPH

Journal of Infectious Diseases, 2016;214(8):1129-31, and was among the co-authors on “Rotavirus Vaccine Effectiveness In Low-Income Settings: An Evaluation of the Test-Negative Design” in *Vaccine*, 2017;35(1):184-190. She was also featured and quoted in “VUSM’s MPH Program Celebrates 20th anniversary” in *Vanderbilt News* on November 10.



Michelle Pearce, PhD

► **Michelle Pearce, PhD**, Assistant Professor of Family & Community Medicine, Center for Integrative Medicine, was among the co-authors on “Religiously-Integrated Cognitive Behavioural Therapy for Major Depression in Chronic Medical Illness: Review of Results from a Randomized Clinical Trial” in *Health and Social Care Chaplaincy*, 2016 Dec; 4(2).

► **Yannick Poirier, PhD**, Assistant Professor, Department of Radiation Oncology, was among the authors on “Comparison of Radiation Exposure During Transradial Diagnostic Coronary Angiography With Single- Or Multi-Catheters Approach” in *Catheterization and Cardiovascular Interventions*, Nov 10 [E-pub ahead of print].



Yannick Poirier, PhD



Jeremy Polf, PhD

► **Jeremy Polf, PhD**, Associate Professor, Department of Radiation Oncology, was the lead author on “Reply To Comment on ‘Imaging Of Prompt Gamma Rays Emitted During Delivery Of Clinical Proton Beams With A Compton Camera: Feasibility Studies For Range Verification’” in *Physics in Medicine and Biology*, 2016;61:8945–8946.

► **Katharina Richard, PhD**, Postdoctoral Fellow; and **Stefanie Vogel, PhD**, Professor, both from the Department of Microbiology and Immunology; along with **Eileen Barry, PhD**, Professor of Medicine, Center for Vaccine Development; and **Robert Ernst, PhD**, Associate Professor, Department of Microbiology and Immunology and the Department of Microbial Pathogenesis in the School of



Stefanie Vogel, PhD

Publications *continued*

Dentistry, were among the co-authors on “Monophosphoryl Lipid A Enhances Efficacy of a *Francisella tularensis* LVS-Catanionic Nanoparticle Subunit Vaccine against *F. tularensis* Schu S4 Challenge by Augmenting both Humoral and Cellular Immunity” in *Clinical and Vaccine Immunology*, 2017 Jan 11 [Epub ahead of print].



Osamah Saeedi, MD

► **Osamah Saeedi, MD**, Assistant Professor, Department of Ophthalmology & Visual Sciences, was first author on “Trends in Prevalence of Diagnosed Ocular Disease and Utilization of Eye Care Services in American Veterans” in *American Journal of Ophthalmology*, 2017 Jan;173:70-75. Emily Schehlein, Medical Student, and Dr. Saeedi were first and senior author, respectively, for “Non-Medical Out-of-Pocket Patient and Companion Expenditures Associated with Glaucoma Care” in *Journal of Glaucoma*, 2017 Jan 3 [Epub ahead of print].

► **Gary Schwartzbauer, MD, PhD**, Assistant Professor, Department of Neurosurgery, and **Xiaofeng Jia, BM, PhD**, Associate Professor, Departments of Neurosurgery, Orthopaedics, Anatomy and Neurobiology, were among the co-authors on “Brain Monitoring in Critically Neurologically Impaired Patients” in *International Journal of Molecular Science*, 2016 Dec 27 [Epub ahead of print].



Gary Schwartzbauer, MD, PhD



Marcus Sciadini, MD

► **Marcus Sciadini, MD**, Associate Professor, Department of Orthopaedics, was among the co-authors on “Institutional and Seasonal Variations in the Incidence and Causative Organisms for Post-traumatic Wound Infections and Osteomyelitis after Open Fractures” in *The Journal of Orthopaedic Trauma*, 2017 Feb;31(2):78-84.

► **Terez Shea-Donohue, PhD**, Professor, Department



Terez Shea-Donohue, PhD

of Radiation Oncology, was among the co-authors on “Neuroimmune Modulation Of Gut Function” in *Handbook of Experimental Pharmacology*, 2016 Dec 30 [Epub ahead of print].



Clint Sliker, MD

► **Clint Sliker, MD**, Associate Professor, Department of Diagnostic Radiology and Nuclear Medicine, was among the co-authors on “Emergency Radiology Practice Patterns: Shifts, Schedules, and Job Satisfaction” in *Journal of the American College of Radiology*, 2016 Dec 4 [Epub ahead of print].

► **Charles Simone, II, MD**, Associate Professor, Department of Radiation Oncology, was among the co-authors on “Multi-Institutional Prospective Study

of Reirradiation with Proton Beam Radiotherapy for Locoregionally Recurrent Non-Small Cell Lung Cancer” in *Journal of Thoracic Oncology*, 2017 Feb;12(2):281-292. He was also among the co-authors on “Extended Pleurectomy- Decortication-Based Treatment for Advanced Stage Epithelial Mesothelioma Yielding a Median Survival of Nearly Three Years” in *Annals of Thoracic Surgery*, 2016 Nov 5 [Epub ahead of print]. Dr. Simone was the co-author on “Radiotherapy for Brain Metastases: Quo Vadis?” in *Annals of Palliative Medicine* (2016 Oct;5(4):322-324), of which he is the editor. He was also among the co-authors on “Brief Report: A Survey of Thymic Carcinoma Management Patterns Among International Thymic Malignancy Interest Group (ITMIG) Physicians With Consensus From The Thymic Carcinoma Working Group” in the *Journal of Thoracic Oncology*, 2016 Nov 19 [Epub ahead of print]. He was the sole author on “Annals of Palliative Medicine Has Become Indexed in Emerging Sources Citation Index Web of Science and Scopus” (2016;5:325–326) and “Brain Metastases, End-Of-Life Medical Policies, and Controversies Surrounding the Term ‘Do Not Resuscitate’” (2016;5:238–241), both in *Annals of Palliative Medicine*. He was also among the co-authors on “MediBoost: A Patient Stratification Tool for Interpretable Decision Making in the Era of Precision Medicine” in *Scientific Reports*, 2016 Nov 30;6:3785; “Stereotactic Body Radiation Therapy and the Influence of Chemotherapy on Overall Survival for Large (≥5 Centimeter) Non-Small Cell Lung Cancer” in *International*



Charles Simone, II, MD

Publications *continued*

Journal of Radiation Oncology, Biology, Physics, 2017 Jan 1;97(1):146-154, and “How Patients View Lung Cancer Screening. The Role of Uncertainty in Medical Decision Making” in *Annals of the American Thoracic*, 2016;13:1969–1976.

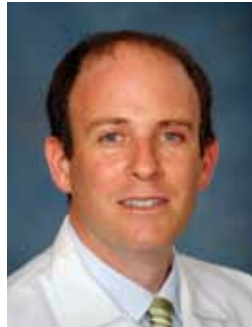
► **James Snider, III, MD**, Resident; **Elizabeth Nichols, MD**, Assistant Professor, **William Regine, MD**, Professor and Chair; and **Steven Feigenberg, MD**, Professor, all from the Department of Radiation Oncology, were among the co-authors on “Dosimetric Improvements with a Novel Breast Stereotactic Radiotherapy Device For Delivery of Preoperative Partial-Breast Irradiation” in *Oncology*, 2017;92(1):21-30.

► **Chandler Sours, PhD**, and **Li Jiang, PhD**, both Research Analysts in the Magnetic Resonance Research Center, along with

Prashant Raghavan, MBBS, Associate Professor, **Steven Roys, MS**, Research Associate, **Jiachen Zhuo, PhD**, Assistant Professor, **Rao Gullapalli, PhD**, Professor, all from the Department of Diagnostic Radiology and Nuclear Medicine, and **Alexandre Medina de Jesus, DSci**, Associate Professor, Department of Pediatrics, co-authored “Structural and Functional Integrity of the Intraparietal Sulcus in Moderate and Severe Traumatic Brain Injury” in *Journal of Neurotrauma*, 2016 Dec 8 [Epub ahead of print]. Drs. Gullapalli and Zhuo, and **Taehoon Shin, PhD**, Assistant Professor,

Department of Diagnostic Radiology and Nuclear Medicine, were among the co-authors of “Accelerated Electron Paramagnetic Resonance Imaging Using Partial Fourier Compressed Sensing Reconstruction” in *Magnetic Resonance Imaging*, 2016 Oct 29;37:90-99.

► **Milagritos Tapia, MD**, Associate Professor of Pediatrics, and **Karen Kotloff, MD**, Professor



Steven Feigenberg, MD



Milagritos Tapia, MD

of Pediatrics, both from the Center for Vaccine Development, Institute for Global Health, were among the co-authors on “Pertussis-Associated Pneumonia in Infants and Children From Low- and Middle-Income Countries Participating in the PERCH Study” in *Clinical Infectious Diseases*, 2016 Dec 1;63(suppl 4):S187-S196.



Hervé S.G. Tettelin, PhD

► **Hervé S.G. Tettelin, PhD**, Associate Professor of Microbiology & Immunology, Institute for Genome Sciences, was among the co-authors on “Capsular Polysaccharide Expression in Commensal *Streptococcus* Species: Genetic and Antigenic Similarities with *Streptococcus pneumoniae*” in *mBio*, 2016 Nov 15;7(6).

► **Jill Whitall, PhD**, Professor, Department of Physical Therapy & Rehabilitation Science, was among the co-authors on “Effects of Gait Training With Body Weight Support on a Treadmill vs. Overground for Individuals With Stroke” in the *Archives of Physical Medicine and Rehabilitation*, 2016 Dec 26 [Epub ahead of print].



Charles White, MD

► **Charles White, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, was the last author on “Computed Tomography Diagnosis of Nonspecific Acute Chest Pain in the Emergency Department: From Typical Acute Coronary Syndrome to Various Unusual Mimics” in *Journal of Thoracic Imaging*, 2017 Jan;32(1):26-35.

► **Jen Yu, PhD**, Assistant Professor, Department of Radiation Oncology, was among the co-authors on “Robust Optimization for Intensity-Modulated Proton Therapy Plans With Multi-Isocenter Large Fields” in *International Journal of Particle Therapy*, 2016 Fall;3(2);301–311.



Jill Whitall, PhD



Jen Yu, PhD

Events, Lectures & Workshops

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

► **Dayanand Bagdure, MD, MBBS, MPH**, Assistant Professor, Department of Pediatrics, presented “The Impact of Dedicated Cardiac Intensive Care Units on Outcomes in Pediatric Cardiac Surgery: A VPS Database Analysis” at The Pediatric Cardiac Intensive Care Society’s Annual Conference in Miami, FL, December 8–11. It was selected as one of the Top Abstract Presentations at the conference.



Wilbur Chen, MD, MS

► **Wilbur Chen, MD, MS**, Associate Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, was a faculty member for the Fall 2016 Clinical Vaccinology Course (which provides CME), sponsored by the National Foundation for Infectious Diseases (NFID), and held in Philadelphia, PA, November 4–6. His presentation was titled “Travel Vaccines: Don’t Leave Home without Them.” Dr. Chen was an invited member of the NIAID-sponsored and WRAIR co-sponsored “Consultation on the Ethics of Zika Virus Human Challenge Trials” Workshop, held in Rockville, MD, December 12. He was also the speaker for an NFID-sponsored webinar (worth 1.0 hour of CME) on “Vaccines to Mitigate Risk During Travel” on December 7.

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, delivered an oral presentation entitled “Nuclear Imaging to Guide Cardiac Interventions” at the Alabama Chapter of the American College of Cardiology 2017 Winter Conference, which was held in Birmingham, AL, on January 14.

► **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, was a Visiting Professor at the Mayo Clinic in Rochester, MN, in July, 2016, where he presented on “Neglected Children: A Need for Prevention” for Pediatric Grand Rounds and conducted a workshop on Child Neglect. In October, Dr. Dubowitz was Visiting Professor for the inaugural pediatric grand rounds at Uppsala University School of Medicine in Uppsala, Sweden, where he presented “Neglected Children: A Role for Child Health Professionals.” In November, Dr. Dubowitz presented “Preventing Child Abuse and Neglect: A Role for Child Health Professionals” at the inaugural Annual Joseph M. Wiley, MD, Pediatric Grand Rounds at Sinai Hospital in Baltimore.

► **Brian Johnson, MS, OT**, PhD Candidate, Department of Physical Therapy and Rehabilitation Science, was an invited speaker at Johns Hopkins University’s Sensorimotor Research Day on December 16, where he presented “Use of Targeted Memory Reactivation (TMR) During Sleep to Enhance Non-Dominant Upper Extremity Sensorimotor Performance in Healthy Young Adults.”



Achsah Keegan, PhD

► **Achsah Keegan, PhD**, Professor of Microbiology and Immunology, Center for Vascular and Inflammatory Diseases, presented an invited seminar to the Center for Vascular Biology and Therapeutics at the Yale University School of Medicine in New Haven, CT on December 12. Her topic was “Regulation of Alternative Macrophage Activation and Type II Inflammation by Insulin Receptor Substrate 2 (IRS2).”

► **Niharika Khanna, MBBS, MD, DGO**, Associate Professor, Department of Family and Community Medicine, and a team from the DHMH, CMS, and the Maryland Academy of Family Medicine attended a meeting at DHMH on December 9 regarding the Maryland Primary Care Model. She is working with this group to collaboratively develop the Maryland Primary Care Model under the Medicare Waiver.

► **Matthew Laurens, MD, MPH**, Associate Professor of Pediatrics, Division of Malaria Research, Institute for Global Health, presented “Considerations for Use of the RTS,S Vaccine” at the “Estimating the Full Public Health Value of Vaccines” conference hosted by the Foundation Mérieux, and held December 5–7 in Annecy, France.

► **Andrew Neuwald, PhD**, Professor of Biochemistry & Molecular Biology, Institute for Genome Sciences, was an invited speaker at a seminar at the National Center for



Niharika Khanna, MBBS, MD, DGO



Matthew Laurens, MD, MPH

Events, Lectures & Workshops *continued*



Andrew Neuwald, PhD

Biotechnology Information (NCBI) at NIH in Bethesda, MD, on November 21, 2016, where he presented “Inferring Sequence-Structure Determinants of Protein Function.” Dr. Neuwald was a guest of Stephen F. Altschul and L. Aravind.

► **Kathleen Neuzil, MD, MPH**, Professor of Medicine and Director, Center for Vaccine Development, and Deputy Director, Institute for Global Health, presented the invited talk “Influenza Vaccines: Giving the Right Dose at the Right Time” at the National Foundation for Infectious Diseases Clinical Vaccinology Course in Philadelphia on November 4. She also chaired the session “Session 4: Progress Under Objective 3: R&D for Influenza Vaccines” at the Third

WHO Consultation on Global Action Plan for Influenza Vaccines (GAP III), in Geneva, Switzerland on November 16, and gave an invited speech on “New Broad Spectrum Influenza Vaccines” at the same event.

► **Jacques Ravel, PhD**, Professor of Microbiology & Immunology, and Associate Director, Genomics, Institute for Genome Sciences, was an invited speaker at The American Society for Microbiology, Maryland

Branch Ltd, where he presented “Exploring the Human Microbiome” on October 5, 2016.



Violeta Rus, MD, PhD

► **Violeta Rus, MD, PhD**, Associate Professor, Department of Medicine, presented “Increased Expression of Response Gene to Complement-32 in Kidney Biopsies from Patients with Lupus Nephritis” at the 2016 ACR/ARHP Annual Meeting in Washington, DC, in December.

► **The Center for Vaccine Development** hosted the 23rd Annual Frontiers in Vaccinology Lectureship on November 8 and 9. Topics included international field work, new vaccine

development and challenge studies, antimicrobial resistance/nosocomial infections, malaria, and hot topics. Frontiers culminated with a presentation entitled “From the Holy Grail to Hesitation and Back: Journey of Vaccines in America” by keynote speaker Anne Schuchat, MD, Principal Deputy Director for the Centers for Disease Control and Prevention.



Dr. Schuchat with CVD director Kathleen Neuzil, MD, MPH

Appointments

We applaud our colleagues on their recent appointments!

► **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, has been appointed to a three-year term on the American Academy of Pediatrics’ Technical Assistance Project Advisory Committee for the Screening in Practices Initiative.

► **Andrea Meredith, PhD**, Associate Professor, Department of Physiology, was appointed to a three-year term on the Advisory Board for the Biophysical Society and the Institute of Physics ebook publications series on biophysics, providing expertise in ion channels and systems biophysics.

► **Charles Simone, II, MD**, Associate Professor, Department of Radiology, and Medical Director of the

Maryland Proton Treatment Center, was appointed in December as the new chair of the executive committee of the Proton Collaborative Group (PCG). PCG is an independent nonprofit corporation that provides proton therapy-specific clinical research oversight to 9 independent treatment centers and institutional members across the United States.

► **Chris Wells, PhD, PT, CCS, ATC**, Clinical Associate Professor, Department of Physical Therapy and Rehabilitation Science, has been appointed by the American Physical Therapy Association (APTA) as a content expert to review literature about blood flow restriction therapy.



Andrea Meredith, PhD



Charles Simone, II, MD

Honors & Awards

Congratulations to the following who have received honors!



Peter Crino, MD, PhD

► **Peter Crino, MD, PhD**, Professor and Chair, Department of Neurology, received the Dreifuss Award for Excellence in Clinical Translational Research in Epilepsy at the American Epilepsy Society meeting in Houston, TX in December 2016, where he also gave the inaugural Fritz E. Dreifuss, M.D. Lecture.

► **Louis DeTolla, VMD, MS, PhD, DACLAM**, Professor of Pathology, Medicine and Epidemiology and Public Health, was the 2016 Recipient of the John M'fadyean Medal in Comparative

Pathology, presented by the President of the British Society of Veterinary Pathology, in September 2016 in Bologna, Italy at the ESVP/ECVP conference. Dr. DeTolla represented the *Journal of Comparative Pathology* at the annual joint meeting of the European Society of Veterinary Pathology (ESVP) and the European College of Veterinary Pathology (ECVP). Dr. DeTolla was selected by the Scientific Committee of the ESVP to present the Plenary Lecture "Vaccine Strategies in Emerging Diseases." Sir John M'fadyean was a veterinary pathologist knighted by Queen Victoria who founded the *Journal of Comparative Pathology* in 1888. He was a contemporary of Pasteur and Koch and is considered the founder of modern veterinary research based on his contributions to both human and animal pathology.

► **Howard Dubowitz, MB, ChB, MS, FAAP**, Professor, Department of Pediatrics, was awarded the Harvard T.H.Chan School of Public Health Alumni Award of Merit in October 2016.

► **Mary Kay Lobo, PhD**, Assistant Professor, Department of Anatomy and Neurobiology, was honored by President



Howard Dubowitz, MB, ChB, MS, FAAP



Louis DeTolla, VMD, PhD, DACLAM



Mary Kay Lobo, PhD

► **Pranshu Mohindra, MD**, Assistant Professor, Department of Radiation Oncology, was selected by NCI to be featured in a new social media pilot program through the NCI Office of Communications and Public Liaison. His trial, Protocol #9952, "Phase 1 Trial to Determine the Recommended Phase 2 Dose (RP2D) of VX-970 When Combined with Whole Brain Radiotherapy (WBRT) in Patients with Brain Metastases from Non-Small Cell Lung Cancer (NSCLC)," was featured on December 1 on the Twitter account @NCICancerTrials.

► **Gerardo Vasta, MD**, Professor, Department of Microbiology and Immunology, Institute of Marine and Environmental Technology, was honored on December 6, 2016 by the Argentine Ministry of Science, Technology, and Innovation. He was presented with the Raíces Award, which honors scientists that have successfully established themselves abroad, while continuing to actively promote science and technology in Argentina.



Chris Wells, PT, PhD, CCS, ATC

Obama as a recipient of the Presidential Early Career Awards for Scientists and Engineers (PECASE), the highest honor bestowed by the United States Government on science and engineering professionals in the early stages of their independent research careers.

► **Pranshu Mohindra, MD**, Assistant Professor, Department of Radiation Oncology, was selected by NCI to be featured in a new social media pilot program through the NCI Office



Pranshu Mohindra, MD, MBBS

of Communications and Public Liaison. His trial, Protocol #9952, "Phase 1 Trial to Determine the Recommended Phase 2 Dose (RP2D) of VX-970 When Combined with Whole Brain Radiotherapy (WBRT) in Patients with Brain Metastases from Non-Small Cell Lung Cancer (NSCLC)," was featured on December 1 on the Twitter account @NCICancerTrials.

► **Chris Wells, PT, PhD, CCS, ATC**, Clinical Associate Professor, Department of Physical Therapy and Rehabilitation Science, was the recipient of the H Browning Seminar Lectureship at Baylor University Medical Center. Her presentation was titled, "Where Do I Begin? Providing Advance Rehabilitation for Critical Ill Adults."

In Memoriam

Lawrence Goldman, PhD, Emeritus Professor, Department of Physiology

The Department of Physiology regrets the passing of Emeritus Professor, Dr. Lawrence Goldman, on November 28, 2016.

Dr. Goldman earned his BS in Chemistry and Physics from Tufts University in 1958. He received his PhD degree in Zoology and Biophysics at UCLA in 1964. From 1964 to 1965, he obtained postdoctoral training in the Department of Neurology, College of Physicians and Surgeons at Columbia University in New York, before accepting a position as Assistant Professor in the Department of Zoology at the University of Maryland, College Park in 1965. In 1967, he joined the University of Maryland School of Medicine as an Assistant Professor in the Department of Biophysics (later incorporated into the Department of Physiology). Dr. Goldman rose through the ranks to become Associate Professor with Tenure in 1970 and Professor in 1977. Dr. Goldman was also a Fulbright Senior Professor at the University of Saarlandes in Homburg, Germany, from 1987 to 1988.



Over his 41 year career at UM SOM, Dr. Goldman and his trainees made major contributions to our understanding of the ways in which ion channels open and close, particularly those gated by the voltage across the cell membrane. His research career was focused on the study of the fundamental physical mechanisms underlying generation and conduction of the action potential- the electrical unit of information flow in the nervous system. Among his many scientific contributions, Dr. Goldman provided experimental evidence explaining the proportionality between action potential conduction velocity and the square root of fiber diameter in nerve fibers. He also made significant contributions to our understanding of the biological underpinnings of the mathematical descriptions of ion channel gating made by Alan Hodgkin and Andrew Huxley in their Nobel Prize-winning work.

Dr. Goldman's contributions to our understanding of membrane biophysics have been widely recognized by his peers, as demonstrated by the many invited presentations of his work he made around the world. He will be missed by his colleagues in the Department of Physiology and the University of Maryland School of Medicine.

Research Communications Network

Many thanks to the following people who serve as your liaisons for the information you see in What's the Buzz? Please send information (within the realm of the categories listed here) that you would like to see in the Buzz to the appropriate person within your department, program, center or office.

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Center for Stem Cell Biology & Regenerative Medicine
Evets Morgan

Center for Vaccine Development: Staci Eddington

Center for Vascular & Inflammatory Diseases:
Yan Sun

Institute for Genome Sciences:
Riham Keryakos

Institute for Global Health:
Katherine Frankel

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