



What's the Buzz?

MAY 2017 VOL.19 NO.5

SELF-REPORTED NEWS from the SCHOOL OF MEDICINE COMMUNITY

Grants & Contracts

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



Andrea Berry, MD

► **Andrea Berry, MD**, Assistant Professor of Pediatrics, Institute for Global Health, received a five-year, \$915,020 NIH Mentored Patient-Oriented Research Career Development Award for “Protein Microarray Antibody Responses to *P. falciparum* in a Human Challenge Model.” Dr. Berry also entered into a Clinical Study Agreement with Corixa Corporation, a member of the GSK Companies, for the protocol “A Phase 1/2, Randomized, Observer-Blind, Controlled, Multi-Center, Dose-Escalation Study to Evaluate Safety, Reactogenicity and Immunogenicity of GSK Biologicals’ Respiratory Syncytial Virus (RSV) Investigational Vaccine Based on the RSV Viral Proteins F, N and M2-1 Encoded by Chimpanzee-Derived Adenovector (Chad155-RSV) (GSK3389245A), When Administered Intramuscularly According to a 0, 1-Month Schedule to RSV-Seropositive Infants Aged 6 to 17 Months.”

► **James Campbell, MD, MS**, Professor of Pediatrics, Center for Vaccine Development (CVD) and the Institute for Global Health, received a six-year, \$7,592,089 award to design and perform the clinical trial and laboratory assays for the protocol “Phase 4 Trial to Evaluate the Efficacy of an Injectable-Free (All Oral) Delamanid-Containing Regimen for the Treatment of Multidrug-Resistant Pulmonary Tuberculosis.” This is part of the NIAID contract awarded to **Karen Kotloff, MD**, Professor of



James Campbell, MD, MS

Pediatrics, for a Vaccine Treatment and Evaluation Unit within CVD.

► **Wilber Chen, MD, MS**, Associate Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, has entered into a Research Services Agreement with the American Cleaning Institute. Dr. Chen will advise ACI on matters related to the development of clinical efficacy studies to evaluate OTC topical antiseptic hand products and will draft a proposal for testing whether antibacterial active ingredients reduce the risk of infection in a human challenge model using enterotoxigenic *E. coli*.

► **Curt Civin, MD**, Associate Dean for Research; Director, Center for Stem Cell Biology & Regenerative Medicine; and Professor of Pediatrics and Physiology, received a subcontract from the University of Maryland, College Park (UMCP) to participate and advise on stem cell and molecular biology in the new NIH P41-funded “Center for Engineering Complex Tissues” (CECT; PI: John Fisher PhD, Chair, Department of BioEngineering, UMCP). Total five-year funding for the Center is \$6,302,200. Collaborators also include Rice University and Wake Forest Institute for Regenerative Medicine. CECT will oversee six collaborative projects, six service projects, and multiple training programs to foster expert collaborations for the advancement of tissue engineering.

► **Eduardo Davila, PhD**, Associate Professor, Department of Microbiology & Immunology, received a five-year, \$363,833 grant from



Wilbur Chen, MD, MS



Curt Civin, MD

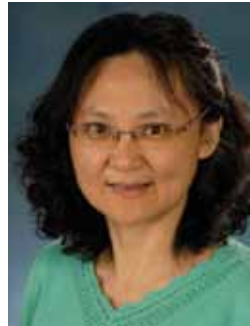
Grants & Contracts *continued from page 1*



Eduardo Davila, PhD

the National Cancer Institute of the National Institutes of Health for “Augmenting T-cell Activity to Weak Tumor Antigens and Reversing Myeloid Cell-Mediated T-cell Inhibition.

▶ **Mao Fu, PhD**, Assistant Professor of Medicine, Program in Personalized and Genomic Medicine, received a two-year, \$154,000 grant from the American Heart Association (AHA) for “Functional Genetic Variants for Lipoprotein (a) Levels.”



Mao Fu, PhD

▶ **Shannon Takala Harrison, PhD**, Associate Professor of Medicine, Institute for Global Health, received a five-year, \$1,632,515 NIH R01 award for “Identification and Validation of Molecular Markers of Piperazine Resistance.”



Shannon Takala Harrison, PhD

▶ **Kirsten Lyke, MD**, Associate Professor of Medicine, Institute for Global Health, received a \$1.17 million grant from The Geneva Foundation for “A Phase I, Randomized, Placebo-Controlled Trial to Assess the Safety, Reactogenicity and Immunogenicity of a Combination HTNV and PUUV Virus DNA Vaccine Candidate Administered by Electroporation.”



Kirsten Lyke, MD

▶ **Jeffrey O’Connell, PhD**, Associate Professor of Medicine, Program in Personalized and Genomic Medicine, received a three-year, \$1.7 million U01 grant from the National Heart, Lung, and Blood Institute (NHLBI) for “High-Performance Mixed Model Toolset for Integrative Omics Analysis of Big Data.”



Jeffrey O’Connell, PhD

▶ **Christopher Plowe, MD, MPH, FASTMH**, the Frank M. Calia MD Professor of Medicine and Founding Director, Institute for Global Health, and **Myaing Nyunt, MD, MPH, PhD**, Assistant Professor of Medicine, Institute for Global Health, received a seven-year, \$9,176,772 U19 Award from NIAID for “Myanmar Regional Center of Excellence for Malaria Research.” The current year award is for \$1,395,966.



Christopher Plowe, MD, MPH, FASTMH and Myaing Nyunt, MD, MPH, PhD



Taehoon Shin, PhD

▶ **Taehoon Shin, PhD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine, was awarded a four year, \$1.5 million R01 grant from the National Heart, Lung and Blood Institute for “Non-Contrast-Enhanced Peripheral MR Angiography.” One of Dr. Shin’s primary research interests is unenhanced angiography, which is considered a highly promising approach to visualize arteries because of the absence of side effects of ionizing

radiation from CTA and nephrogenic systemic fibrosis from gadolinium-enhanced MRA. At the core of the method is velocity-selective (VS) excitation pulse which excites magnetic spins based on their velocities but independently of their spatial location in a way that highlights rapidly moving arterial blood while suppressing venous blood and relatively stationary tissues such as muscle. Dr. Shin’s research involves clinical collaboration with **Robert Crawford, MD**, Associate Professor, Departments of Surgery and Anesthesiology, and **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, both experts in clinical vascular imaging. While the awarded grant focuses specifically on peripheral angiography, the proposed technique can be easily adapted for other arterial territories such as cerebral, renal and pedal. In addition to angiography applications, VS excitation schemes will be highly applicable to other areas of MR development including ASL perfusion, vessel wall imaging and venography.

▶ **Mark Travassos, MD, MSc**, Assistant Professor of Pediatrics, Institute for Global Health, received a two-year, \$75,000 Clinical-Investigator Award for Career Development from the Passano Foundation for “Understanding Mechanisms Underlying Acquired Protective Immunity to Cerebral Malaria.”

Publications

Hats off to those who have been published!



Samson Assefa, MD

► **Samson Assefa, MD**, Assistant Professor; **Montserrat Diaz-Abad, MD**, Assistant Professor; and **Steven Scharf, MD**, Professor, all from Department of Medicine, co-authored “Sleep Apnea—Recent Updates” in the online Open Access journal *InTech* on Apr 5.

► **Eileen Barry, PhD**, Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, was among the co-authors on “Analysis of *Shigella Flexneri* Resistance, Biofilm Formation, and Transcriptional Profile in Response to Bile Salts” in *Infection and Immunity*, 2017 Mar 27 [Epub ahead of print].

► **Andrea Berry, MD**, Assistant Professor of Pediatrics, Institute for Global Health, was the senior author on “Two-Year Antibody Persistence in Children Vaccinated at 12-15 Months with a Measles-Mumps-Rubella Virus Vaccine Without Human Serum Albumin” in *Human Vaccines & Immunotherapeutics*, 2017;13(7).

► **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, published a chapter entitled “Prevention: A Multi-Level, Bio-Behavioral, Lifespan Perspective” in *The Handbook of Pediatric Psychology*, and a chapter entitled “Responsive Feeding: Strategies to Promote Healthy Mealtime Interaction” in the *Nestle Nutrition Institute Workshop Series*.

► **Uttam Bodanapally, MBBS**, Assistant Professor; **David Dreizin, MD**, Assistant Professor; **Krystal Archer-Arroyo, MD**, Assistant Professor; and **Babak Saboury, MD**, Third-year Resident, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Prognostic



Eileen Barry, PhD



Uttam Bodanapally, MBBS

Predictors of Visual Outcome in Open Globe Injury: Emphasis on Facial CT Findings” in *AJNR—American Journal of Neuroradiology*, 2017 Mar 16 [Epub ahead of print].

► **Mary Beth Bollinger, DO**, Associate Professor, Department of Pediatrics was among the co-authors on “Effect of an Integrated Pest Management Intervention on Asthma Symptoms Among Mouse-Sensitized Children and Adolescents with Asthma: A Randomized Clinical Trial” in *JAMA*, 2017 Mar 6 [Epub ahead of print].



Laura Bontempo, MD, MEd

► **Laura Bontempo, MD, MEd**, Assistant Professor, Department of Emergency Medicine, published “Family Medical History” in the Reflections column of *Academic Emergency Medicine*, 2017 Feb 24(2):254–255. In this pensive essay, Dr. Bontempo examined the impact of a question asked by many practitioners during their initial assessment of a patient. Routine inquiry into the family’s medical history is much less routine when seen from the patient’s point of view.

► **Rong Chen, PhD**, Assistant Professor; **Edward Herskovits, MD**, Professor; and **Elias Melhem, MD, PhD**, Professor and the Dean John M. Dennis Chairman, all from the Department of Diagnostic Radiology & Nuclear Medicine were among the co-authors on “Brain Morphometric Analysis Predicts Decline of Intelligence Quotient in Children with Sickle Cell Disease: A Preliminary Study” in *Advanced Medical Science*, 2017 Mar 6;62(1):151-157.

► **Kunrong Cheng, PhD**, Assistant Professor, and **Jean-Pierre Raufman, MD**, Professor, both from the Department of Medicine; **Cinthia Drachenberg, MD**, Professor, Department of Pathology; and **Min Zhan, PhD**, Associate



Mary Beth Bollinger, DO



Rong Chen, PhD

Publications *continued from page 3*



Kunrong Cheng, PhD

Professor, Department of Epidemiology & Public Health, were among the co-authors on “Differential Expression of M3 Muscarinic Receptors in Progressive Colon Neoplasia and Metastasis” in *Oncotarget*, 2017 Mar 28;8(13):21106-21114.

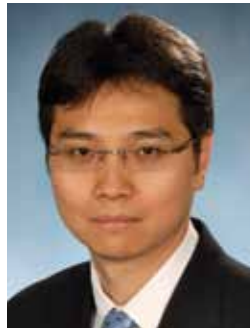
► **Nina Connolly, PhD**, Postdoctoral Fellow; **Anthony Kim, PhD**, Assistant Professor; **J Marc Simard, MD, PhD**, Professor; and **Graeme Woodworth, MD**, Associate Professor, all from the Department

of Neurosurgery; **Su Xu, PhD**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine; **Rudolph Castellani, MD**, Clinical Professor, Department of Pathology; and **Jeffrey Winkles, PhD**, Professor, Department of Surgery were among the co-authors on “Genetically Engineered Rat Gliomas: PDGF-Driven Tumor Initiation and Progression in Tv-A Transgenic Rats Recreate Key Features of Human Brain Cancer” in *PLoS One*, 2017 Mar 30;12(3):e0174557 (eCollection 2017).

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, was the corresponding author on “Myocardial Viability: Survival Mechanisms and Molecular Imaging Targets in Acute and Chronic Ischemia” in *Circulation Research*, 2017;120:1197-1212.

► **David Dreizin, MD**, Assistant Professor, and **Nikki Tirada, MD**, Assistant Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on

“Abdominal and Pelvic Trauma: Misses and Misinterpretations at Multidetector CT: Trauma/Emergency Radiology” in *Radiographics*, 2017 Mar-Apr;37(2):703-704.



Anthony Kim, PhD



David Dreizin, MD

► **Stephanie Fresnay, PhD**, Postdoctoral Fellow; **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Diseases; and **Marcelo Sztein, MD**, Professor of Medicine, all from the Center for Vaccine Development and the Institute for Global Health, were among the co-authors on “Challenge of Humans with Wild-type *Salmonella Enterica* Serovar Typhi Elicits Changes in the Activation and Homing Characteristics of Mucosal-Associated Invariant T Cells” in *Frontiers in Immunology*, 2017 Apr 6;8:398 [eCollection 2017]. Drs. Fresnay, Levine and Sztein, along with **Monica McArthur, MD, PhD**, Assistant Professor, were among the co-authors on “Importance of *Salmonella Typhi*-responsive CD8+ T Cell Immunity in a Human Typhoid Fever Challenge Model” in *Frontiers in Immunology*, 2017 Mar 2;8:208.

► **Stella Hines, MD, MSPH**, Assistant Professor, Department of Medicine; **Van Kim Holden, MD**, Clinical Fellow, Division of Pulmonary & Critical Care Medicine; and **Seth Kligerman, MD**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Unabated Occupational Risk in a Patient with Rheumatoid Pulmonary Fibrosis” in *Occupational Medicine*, 2017 Feb 23 [Epub ahead of print].

► **Jason Hostetter, MD**, Fourth-year Resident; **Michael Morris, MD**, Third-year Resident; **Jean Jeudy, MD**, Associate Professor; and **Eliot Siegel, MD**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Personalizing Lung Cancer Risk Prediction and Imaging Follow-Up Recommendations Using the National Lung Screening Trial Dataset” in *Journal of the American Medical Informatics Association (JAMIA)*, 2017 Mar 10 [Epub ahead of print]. Dr. Siegel was also a co-author on “A Patient as Art: Andrew Wyeth’s Portrayal of Christina Olson’s Neurologic Disorder in Christina’s World” in *Journal of Child Neurology*, 2017 Jan 1:883073817700603 [Epub ahead of print], and “Oliver Cromwell’s Fatal Ague” in *The American Journal of the Medical Sciences*, 2017 Apr;353(4):398-401.



Myron Levine, MD, DTPH



Stella Hines, MD, MSPH



Eliot Siegel, MD

Publications *continued from page 4*

► **Jon Mark Hirshon, MD, MPH, PhD**, Professor, Departments of Emergency Medicine and Epidemiology and Public Health, as a member of the Clinical Policies Committee of the American College of Emergency Physicians, contributed to the organization’s new policy on the diagnosis and management of adult psychiatric patients in emergency departments. The policy was published in *Annals of Emergency Medicine*, 2017 Apr;69(4):480–498.



Jon Mark Hirshon, MD, MPH, PhD

► **Jane Kim, MD**, Assistant Professor, and **Narendra Shet, MD**, Assistant Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Postnatal MRI for CDH: A Pictorial Review of Late-Presenting and Recurrent Diaphragmatic Defects” in *Clinical Imaging*, 2017 Mar 8;43:158-164.



Jane Kim, MD

► **Seth Kligerman, MD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Unabated Occupational Risk in a Patient with Rheumatoid Pulmonary Fibrosis” in *Occupational Medicine (London)*, 2017 Feb 23 [Epub ahead of print].



Seth Kligerman, MD

► **Kathleen Neuzil, MD, MPH, FIDSA**, Professor of Medicine and Director, Center for Vaccine Development, was among the co-authors on “Effectiveness of a Live Oral Human Rotavirus Vaccine After Programmatic Introduction in Bangladesh: A Cluster-Randomized Trial” in *PLOS Medicine*, 2017 Apr 18;14(4):e1002282. She also was among the co-authors on “Cystic Fibrosis Pulmonary Exacerbations Attributable to Respiratory Syncytial Virus and Influenza: A Population-based Study” in *Clinical Infectious Diseases*, 2017 Mar 9 [Epub ahead of print].

► **Aruna Panda, BVSc, PhD, MPH**, Associate Professor of Pathology and

Epidemiology & Public Health, Program of Comparative Medicine; **Louis DeTolla, VMD, PhD, DACLAM**, Professor of Pathology, Medicine, and Epidemiology & Public Health and Director, Program of Comparative Medicine; and **Hervé Tettelin, PhD**, Associate Professor of Microbiology & Immunology, Institute for Genomic Sciences, were among the co-authors on “Complete Genome Sequences of *Mycobacterium kansasii* Strains Isolated from Rhesus Macaques” in *Genome Announcements*, 2017 Apr 20;5(16).



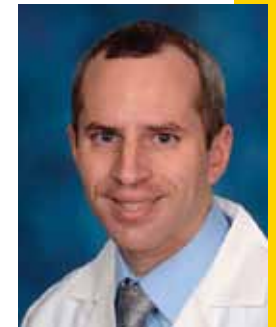
Aruna Panda, BVSc, PhD, MPH



Marcela Pasetti, PhD

► **Marcela Pasetti, PhD**, Professor of Pediatrics, Center for Vaccine Development and the Institute for Global Health, was among the co-authors on “A Primary Human Macrophage-Enteroid Co-culture Model to Investigate Mucosal Gut Physiology and Host-Pathogen Interactions” in *Scientific Reports*, 2017 Mar 27;7:45270.

► **Brian Polster, PhD**, Associate Professor, Department of Anesthesiology, was corresponding author on “The Putative Drp1 Inhibitor Mdivi-1 is a Reversible Complex I Inhibitor that Modulates Reactive Oxygen Species” in *Developmental Cell*, 2017 Mar 27;40(6):583-594.e6.



Brian Polster, PhD



Horea Rus, MD, PhD

► **Horea Rus, MD, PhD**, Professor, Department of Neurology; **Alexandru Tatomir, PhD**, Postdoctoral Fellow, Department of Neurology; **Daniel Hewes, MS III**; **Jonathan Ciriello, MS II**; and **Adam Kruszewski, MS IV**, were among the co-authors on “SIRT1 as a Potential Biomarker of Response to Treatment with Glatiramer Acetate in Multiple Sclerosis” in *Experimental and Molecular Pathology*, 2017, 102: 191-197. Daniel and Adam were both recipients of a Medical Student Research Scholarship Award from the Foundation

Publications *continued from page 5*

of the Consortium of Multiple Sclerosis Centers.

► **Randall Schultz, MD**, Fellow; **Andrew Steven, MD**, Assistant Professor; **Dheeraj Gandhi, MBBS**, Professor; and **Prashant Raghavan, MD**, Associate Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, along with **Charles Sansur, MD, FAANS**, Associate Professor, and **David Ibrahim, MD**, Assistant Professor, both from the Department of Neurosurgery, were among the co-authors on “Differentiation of Idiopathic Spinal Cord Herniation from Dorsal Arachnoid Webs on MRI and CT Myelography” in *Journal of Neurosurgery. Spine*, 2017 Mar 24;1-6 [Epub ahead of print].



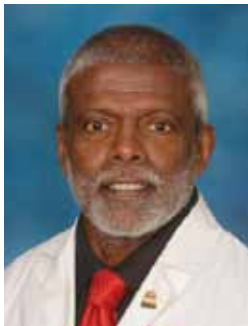
Dheeraj Gandhi, MBBS

► **Mohsin Shahzad, PhD**, Postdoctoral Fellow (first author); **Sairah Yousaf, MSc**, Graduate Student (co-first author); **Saima Riazuddin, PhD, MPH**, Professor; and **Zubair Ahmed, PhD**, Professor, all from the Department of Otorhinolaryngology–Head and Neck Surgery, were among the co-authors on “Molecular Outcomes, Clinical Consequences, and Genetic Diagnosis of Oculocutaneous Albinism in Pakistani Population” in *Scientific Reports*, 2017 Mar 7;7:44185. Dr. Ahmed was also among the co-authors on “Benign Yellow Dot Maculopathy: A New Macular Phenotype” in *Ophthalmology*, 2017 Mar 30;S0161-6420(16)32160-1.



Saima Riazuddin, PhD, MPH

► **Kathirkama Shanmuganathan, MBBS**, Professor; **Jiachen Zhuo, PhD**, Assistant Professor; **Rao Gullapalli, PhD, MBA**, Professor; and **Stuart Mirvis, MD**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Diffusion Tensor Imaging Parameter Obtained During Acute Blunt Cervical Spinal Cord Injury in Predicting Long Term Outcome” in *Journal of Neurotrauma*, 2017 Apr 6 [Epub ahead of print].



Kathirkama Shanmuganathan, MBBS

► **Shiyu Tang**, Research Assistant; **Su Xu, PhD**, Associate Professor; and **Rao Gullapalli, PhD, MBA**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Central Nervous System Changes Induced by Underbody Blast-Induced Hyperacceleration: An in Vivo Diffusion Tensor Imaging and Magnetic Resonance Spectroscopy Study” in *Journal of Neurotrauma*, 2017 Mar 21 [Epub ahead of print]. Dr. Gullapalli, along with **Steven Roys, MS**, Research Associate, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Predictors and Brain Connectivity Changes Associated with Arm Motor Function Improvement from Intensive Practice in Chronic Stroke” in *Version 2. F1000Res*, 2016 Aug 31 [revised 2017 Feb 28];5:2119.



Rao Gullapalli, PhD, MBA



Milagritos Tapia, MD

► **Milagritos Tapia, MD**, Associate Professor of Pediatrics; **Samba Sow, MD, MS**, Adjunct Professor of Medicine; **Sharon Tennant, PhD**, Assistant Professor of Medicine; **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Diseases, all from the Center for Vaccine Development and the Institute for Global Health, were among the co-authors on “Distinct *Salmonella Enteritidis* Lineages Associated with Enterocolitis in High-Income Settings and Invasive Disease in Low-Income Settings” in *Nature Genetics*, 2017 March 30;49(4):651.



Stephen Thom, MD, PhD

► **Stephen Thom, MD, PhD**, Professor; **Veena Bhopale, MPhil, PhD**, Lab Manager; **JingPing Hu, PhD**, Research Specialist; and **Ming Yang, MD**, Research Associate, all from the Department of Emergency Medicine, co-authored “Increased Carbon Dioxide Levels Stimulate Neutrophils to Produce Microparticles and Activate the Nucleotide-Binding Domain-Like Receptor 3 Inflammasome” in *Free Radical Biology and Medicine*, 2017 May;106:406–416.

► **Charles White, MD**, Professor, Department

Publications *continued from page 6*



Charles White, MD

of Diagnostic Radiology & Nuclear Medicine, was last author on “Diagnosis of Grave’s Disease with Pulmonary Hypertension on Chest CT” in *Clinical Imaging*, 2017 Mar 23;43:188-193.

► **R. Gentry Wilkerson, MD**, Assistant Professor, Department of Emergency Medicine, and **Omoyemi Adebayo, MD**, a 2015 graduate of the Emergency Medicine residency, were co-authors on “Angiotensin-Converting Enzyme Inhibitor-Induced Angioedema

Worsened with Fresh Frozen Plasma” in *The American Journal of Emergency Medicine*, 2017 Jan;35(1):192.e1–192.e2.

► **Jeffrey Wolf, MD**, Associate Professor, and **Amal Isaiah, MD**, Assistant Professor, both from the Department of Otorhinolaryngology–Head and Neck Surgery, and **Reuben Mezrich, MD, PhD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine,



R. Gentry Wilkerson, MD



Jeffrey Wolf, MD

were the co-authors on “Ultrasonographic Detection of Airway Obstruction in a Model of Obstructive Sleep Apnea” in *Ultrasound International Open*, 2017 Feb;3(1):E34-E42.

► **Junfang Wu, BM, PhD**, Associate Professor, and **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (STAR) Center, were among the co-authors on “Truncated TrkB.T1-Mediated Astrocytes Dysfunction Contributes to Impaired Motor Function and

Neuropathic Pain After Spinal Cord Injury” in *Journal of Neuroscience*, 2017 Apr 5;37(14):3956-3971.

► **Su Xu, PhD**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Genetically Engineered Rat Gliomas: PDGF-Driven Tumor Initiation and Progression in tv-a Transgenic Rats Recreate Key Features of Human Brain Cancer” in *PLoS One*, 2017 Mar 30;12(3):e0174557 [eCollection 2017].



Su Xu, PhD

Appointments

We applaud our colleagues on their recent appointments!



Maureen Black, PhD

► **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, has been invited to serve a four-year term (2017-2021) as a regular member of the Psychosocial Development, Risk and Prevention Study Section at the National Institutes of Health (NIH).

► **Christopher Plowe, MD, MPH, FASTMH**, the Frank M. Calia MD



Christopher Plowe, MD, MPH, FASTMH

Professor of Medicine and Founding Director, Institute for Global Health, was appointed to the editorial board of the *Myanmar Health Sciences Research Journal*.

► **Niharika Khanna, MBBS, MD, DGO**, Associate Professor, Department of Family & Community Medicine, and Director of the Maryland Learning Collaborative, has been selected as Co-Chair of the DHMH Maryland Cancer Collaborative HPV Workgroup.



Niharika Khanna, MBBS, MD, DGO

Events, Lectures & Workshops

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

► **Maureen Black, PhD**, the John A. Scholl, MD and Mary Louise Scholl, MD Professor in Pediatrics, was invited to be a visiting professor at the University of Massachusetts, Amherst where she presented the Tay Gavin Erickson Lecture on “Building Blocks: Promoting Healthy Habits Through Childcare” on March 2. She also was invited to give a talk at the Dart Center of Journalism, Columbia University, New York City, NY, on “Returns on Investment: Early Child Development” on March 10.



Mary Beth Bollinger, DO

► **Mary Beth Bollinger, DO**, Associate Professor, Department of Pediatrics, presented “The Asthma Pendulum: Development of Asthma and Progression of Atopic Disease” at the American Academy of Allergy, Asthma and Immunology Annual Meeting in Atlanta in early March.

► **Natalie Davis, MD, MMSc**, Assistant Professor, Department of Pediatrics, was the 2017 invited speaker for the annual “Let’s Talk” Webinar/Teleconference presented by the American Academy of Pediatrics Traffic Injury Prevention Project (Pennsylvania Chapter). She presented “Who, What, When, Where, Why, and How of the Car Seat Tolerance Test” to over 300 participants.

► **Colleen Hughes Driscoll, MD**, Assistant Professor, Department of Pediatrics, presented “Using Wireless Text Messaging for Communication During Neonatal Resuscitation Events” at the 2017 Health Information and Management Systems Society Conference in Orlando, FL on February 22.



Colleen Hughes Driscoll, MD

► **Mangla Gulati, MD, FACP, SFHM**, Assistant Professor, Department of Medicine, presented “To Err is Human: Decreasing Medical Errors in the Hospital – and Human Factor Engineering” at the American College of Physicians Internal Medicine Meeting, held in San Diego in March.



Mangla Gulati, MD, FACP, SFHM

► **Ellen Higginson, PhD**, Postdoctoral Fellow, Center for Vaccine Development and the Institute for Global Health,

presented “Virulence of Invasive *Salmonella Typhimurium* ST313 in Animal Infection Models” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 6.

► **Stella Hines, MD, MSPH**, Assistant Professor, Department of Medicine, was invited to present “Metals and Interstitial Lung Disease” at the American Academy of Asthma, Allergy and Immunology meeting on March 4 in Atlanta.



Stella Hines, MD, MSPH

► **Irene Kasumba, PhD**, Postdoctoral Fellow, Center for Vaccine Development and the Institute for Global Health, presented “*Salmonella enterica* Serovars Isolated from Stool of Children Enrolled in the Global Enteric Multicenter Study in Africa” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 6.



Miriam Laufer, MD, MPH

► **Miriam Laufer, MD, MPH**, Associate Professor of Pediatrics and Director, Division of Malaria Research, Institute for Global Health, presented the Frontier Lecture in Infectious Diseases entitled “Using Science to Defeat Malaria in Sub-Saharan Africa” at the 16th Annual St. Jude’s Pediatric Infectious Diseases Research Conference. Dr. Laufer also participated in the career pathways panel discussion to talk about careers in global health.

► **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Diseases, Institute for Global Health, presented “A Broad-Spectrum Vaccine to Prevent Invasive Salmonella Disease in Sub-Saharan Africa” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 5.

► **Philip Mackowiak, MD, MACP**, Professor Emeritus in the Department of Medicine and the Carolyn Frenkil and Selvin Passen History of Medicine Scholar-in-Residence, was the Eighth Annual George A. Sarosi

Events, Lectures & Workshops *continued from page 8*

Visiting Professor at the Indiana University School of Medicine on March 16 & 17. He also was Visiting Professor at the Institute for Lifelong Learning at Susquehanna University in Selinsgrove, PA, in late March.



Philip Mackowiak, MD, MACP

► **Sandra Mooney, PhD**, Associate Professor, Department of Pediatrics presented “Prenatal Ethanol Exposure Induces Deficits in Cognitive Function in Adulthood; Improvement with Choline and Behavior Training” at the 7th International Conference on Fetal Alcohol Spectrum Disorder held in Vancouver, Canada, in early March.



Sandra Mooney, PhD

► **Kathleen Neuzil, MD, MPH, FIDSA**, Professor of Medicine and Director, Center for Vaccine Development, moderated a session entitled “Global Trends in Typhoid Fever: Determinants and Implications for Policy” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda, on April 5. She also presented “Introduction of Typhoid Conjugate Vaccines: Opportunities and Challenges” at the same meeting on April 6.



Kathleen Neuzil, MD, MPH, FIDSA

► **Ada Offurum, MD**, Assistant Professor, Department of Medicine, presented “Update on Venous Thrombo-Embolic Disease” at the American College of Physician Annual Maryland Winter Scientific Meeting, held February 17 & 18 at Turf Valley Resort in Ellicott City, MD. Dr. Offurum and **Mangla Gulati, MD, FACP, SFHM**, Assistant Professor, Department of Medicine, facilitated the “Hospital Maintenance of Certification” Session for the American Board of Internal Medicine at the same meeting.

► **Michelle Pearce, PhD**, Assistant Professor, Department of Family and Community Medicine, will direct a new, 12-credit online graduate certificate in Integrative Health and Wellness in the Graduate School. In

this one-year program, students will learn the fundamental concepts, philosophies, and methods of integrative health, as well as analyze empirical research on the use, benefits, and effects of integrative approaches to healing. Notably, beyond studying the research, participants will have the opportunity to experience and practice integrative mind-body interventions and key health coaching skills. This experiential learning is designed to contribute to both professional and personal development. Finally, participants will learn how to apply their knowledge of integrative health and wellness to assessment and treatment planning. To learn more about the program, visit graduate.umaryland.edu/wellness.



Michelle Pearce, PhD

► **Ken Simiyu, PhD**, Senior Program Director, Center for Vaccine Development and the Institute for Global Health, moderated a session entitled “Crush the Resistance: Antimicrobial Resistance Session” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 5.

► **Rafael Simon, PhD**, Assistant Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, presented “*S. Typhimurium* Core-OPS (COPS) Glycoconjugate with the Homologous Serovar Phase 1 Flagellin as a Vaccine to Prevent Invasive *S. Typhimurium* Infections in Sub-Saharan Africa” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 5.



Raphael Simon, PhD

► **Douglas Sward, MD**, Clinical Assistant Professor, Department of Emergency Medicine, presented a workshop during the Wilderness and Disaster Medicine course at the University of Pennsylvania Perelman School of Medicine in early March. Titled “Search and Rescue: Initial Tasks and Reflex Actions,” his didactic presentation reviewed lost person behavior and its application to search strategies and was followed by a hands-on exercise that asked students to develop a search strategy using a topographic map. The two-week course encourages students to improvise under austere conditions and prepares them to respond to emergencies in wilderness settings as well as disaster scenarios. A *Wall Street Journal* article about the course can be found at <https://www.wsj.com/articles/latest-medical-school->



Douglas Sward, MD

Events, Lectures & Workshops *continued from page 9*

trend-wilderness-training-1490097604?emailToken=JRryd/96aHqXgdY1b8w43UEldbVNDuKFR1jeKDxRMUjLs3iQvfwiswalwmNqzrW61Q0th/JUY9Wc+QzzXjy8zAJ7Jw+8gzW/4.



Marcelo Sztejn, MD

► **Marcelo Sztejn, MD**, Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, presented “Recent Advances in the Identification of Immunological Correlates of Protection in a Human *S. Typhi* Challenge Model” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 6.

► **Rezwanul Wahid, MBBS, PhD**, Assistant Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, presented “Live Oral Typhoid

Vaccine Ty21a Elicited Cross-Reactive Multifunctional IL-17A Producing T Cell Responses Against *Salmonella enterica* Serovars in Humans” and “Cell-Mediated Immune Response Elicited in Volunteers Immunized with the Novel Live Oral *Salmonella enterica* Serovar *Paratyphi A* Vaccine Strain CVD1902” at the 10th International Conference on Typhoid and Other Invasive Salmonellosis in Kampala, Uganda on April 4.



Rezwanul Wahid, MBBS, PhD

Neuroimaging Retreat Once Again a Great Success

The Maryland Neuroimaging Retreat was held on April 14 at the University of Maryland, Baltimore with over one hundred people in attendance. The annual event drew neuroimaging researchers, postdocs, and students from the Baltimore-Washington area to hear presentations from experts in the field of brain research and to engage in panel discussions. The theme of this year’s program was Pain Neuroimaging: Advances and Controversies, and featured 11 regional, national, and international speakers. Members of the organizing committee included **Rao Gullapalli, PhD**, Professor and **Shiyu Tang**, Research Assistant, both from the Department of Diagnostic Radiology & Nuclear Medicine, and David Seminowicz, PhD, Associate Professor, and Joel Greenspan, PhD, Professor and Chair, both from the Department of Neural and Pain Sciences in the School of Dentistry.



Rao Gullapalli, PhD, MBA, and Peter Kochunov, PhD, MS, MSEE, DABMP, Professor, Department of Psychiatry

New Faculty



Li-Qun (Larry) Zhang, PhD

► **Li-Qun (Larry) Zhang, PhD** joined the Department of Physical Therapy & Rehabilitation Science (PTRS) on April 17 as a tenured Professor, with secondary joint appointments in the Department of Orthopaedics at the School of Medicine and the Department of Bioengineering at

We welcome our new faculty!

University of Maryland, College Park. Dr. Zhang comes to PTRS from the Rehabilitation Institute of Chicago and Northwestern University, and brings NIDILRR and NIH SBIR grant support for robotic rehabilitation, where he has an extensive track record in rehabilitation engineering applications in multiple clinical populations.

Honors & Awards

Congratulations to the following who have received honors!



Sandra Quezada, MD, MS

▶ **Sandra Quezada, MD, MS**, Assistant Professor, Department of Medicine, and Assistant Dean for Admissions, received the Inaugural Dean's Alumni Award for Diversity and Inclusion, which was given at the "Celebrating Diversity" Dinner on February 25.

▶ **Kenneth Robinson, MD**, Assistant Professor, Department of Anesthesiology, was recognized as one of the 2017 40 Under

40 Leaders in Minority Health by the National Minority Quality Forum Leadership Summit on Health Disparities. The award was presented at the Congressional Black Caucus Health Braintrust Awards gala dinner on April 25.



Kenneth Robinson, MD

▶ **Areck Ucuzian, MD, PhD**, Assistant Professor of Surgery, Center for Vascular and Inflammatory Diseases, has been chosen as the winner of the 2017 Robert W. Hobson, II, MD Early Career Investigator Award for his abstract "Deletion of LRP1 in SMCs Differentially Alters Susceptibility of Distinct Vascular Beds to BAPN-induced Aneurysm and Dissection Formation."

The Robert W. Hobson, II, MD Early Career Investigator Award is sponsored by the Council on Peripheral Vascular Disease, American Heart Association. This award recognizes excellence in basic or clinical science in early career investigators in vascular and endovascular medicine, vascular surgery, or vascular biology. Dr. Ucuzian's awarded study was to investigate the role of smooth muscle cell LDL receptor-related protein 1 (LRP1) in modulating the susceptibility of various vascular beds to chemically induced dissections and aneurysms in an animal model.



Areck Ucuzian, MD, PhD

University of Maryland School of Medicine Translational Genomics Laboratory Receives Accreditation from College of American Pathologists

The College of American Pathologists (CAP) has awarded accreditation to the University of Maryland School of Medicine's (UMSOM) Translational Genomics Laboratory (TGL) based on results of a recent on-site inspection as part of the CAP's Accreditation Programs.



Linda Jeng, MD, PhD

The facility's laboratory director, **Linda Jeng, MD, PhD** was advised of this national recognition and congratulated for the excellence of the services being provided. In addition to the TGL director, the quality assurance manager, **Danielle Sewell**, played an integral role in the accreditation process and successful inspection and the technical supervisor, **Nicholas Ambulos, PhD**, is



Nicholas Ambulos, PhD

instrumental in developing the TGL. The TGL is one of more than 7,600 CAP-accredited facilities worldwide. The U.S. federal government recognizes the CAP Laboratory Accreditation Program, begun in the early 1960s, as being equal-to or more-stringent-than the government's own inspection program.

During the CAP accreditation process, designed to ensure the highest standard of care for all laboratory patients, inspectors examine the laboratory's records and quality control of procedures for the preceding two years. CAP inspectors also examine laboratory staff qualifications, equipment, facilities, safety program and record, and overall management.



Alan Shuldiner, MD

The TGL is part of the School of Medicine's Program for Personalized and Genomic Medicine (PPGM) and the Center for Innovative Biomedical Resources (CIBR). **Alan Shuldiner, MD**, the John A. Whitehurst Professor of Medicine and director of the PPGM, established the PPGM to advance discovery in genomics and other "omics" sciences, accelerate translational research, and implement these discoveries into more effective and safe individualized health care. **Nicholas Ambulos, PhD**, director of CIBR, established CIBR to provide specialized expertise,

cutting-edge technologies and sophisticated scientific resources supporting a robust basic, clinical and translational biomedical research environment at UMBSOM. The TGL was developed as a critical bridge to help accelerate translation from discovery into precision health care, providing DNA sequencing, genotyping and array-based technologies. These resources place UMSOM in the extraordinary position of providing its faculty with the comprehensive tools to support genomic studies from discover through implementation into clinical care.

About the College of American Pathologists

The College of American Pathologists (CAP), celebrating 50 years as the gold standard in laboratory accreditation, is a medical society that serves more than 18,000 physician members and the global laboratory community. It is the world's largest association composed exclusively of board-certified pathologists and is the worldwide leader in laboratory quality assurance. The College advocates accountable, high-quality, and cost-effective patient care. More information about the CAP can be found at www.cap.org.

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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Attention all SOM Medical, Allied Health and Graduate Students!

Buzz Information Link for Students

A hyperlink is available on the School of Medicine Website for you to submit information to the *Buzz* to acknowledge honors, prizes, presentations, leadership positions and other noteworthy accomplishments. Go to:
http://medschool.umaryland.edu/Public_Affairs/buzz.asp