

what's the buzz?

Self-Reported News from the School of Medicine Community

GRANTS &

CONTRACTS



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



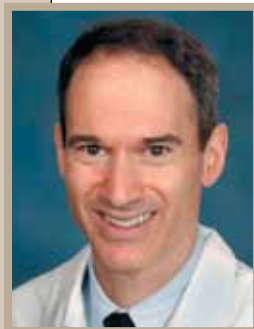
Alan Cross, MD

► **Alan Cross, MD**, Professor; **Raphael Simon, PhD**, Assistant Professor; and **Sharon Tennant, PhD**, Assistant Professor, all from the Department of Medicine and the Institute for Global Health, received a two-year \$3,239,933 grant from Astellas for “Development of a Multivalent Vaccine to Prevent Invasive Infections and Colonization with *Klebsiella Pneumoniae* and *Pseudomonas Aeruginosa*.”

► **Raymond Cross, MD, MS, AGAF**, Associate Professor, and **Leyla Ghazi, MD**, Assistant Professor, both from the Department of Medicine, have been selected by the Crohn’s and Colitis Foundation of America as co-investigators, to develop a longitudinal cohort of 2,500 patients with Crohn’s disease and ulcerative colitis. The School of Medicine was one of nine vanguard sites selected nationally to lead this project, entitled “IBD Plexus Prospective Clinical Cohort.”

► **Christopher deFilippi, MD**, Associate Professor, Department of Medicine, received a \$684,000 grant from Siemens, Healthcare Diagnostics, Inc. for “Specimen Collection in the Emergency Department for The Assessment of Clinical Performance of Troponin Assays.”

► **Louis DeTolla, VMD, MS, PhD, DACLAM**, Professor, Department



Christopher deFilippi, MD



Raymond Cross, MD, MS, AGAF

of Pathology, and Director of the Program in Comparative Medicine, was awarded a \$15,000 UM Ventures Seed Grant for “Development of a Low Ammonia, One Month Change Frequency Microisolator Cage Prototype for Housing Research Mice.” Andy Glenn, Manager, will be a co-developer, along with Carole Contel, Research Coordinator.



Michael Donnenberg, MD

► **Michael Donnenberg, MD**, Professor, Department of Medicine, received a \$455,210 award from the National Institute of Allergy and Infectious Diseases for “Progress in Understanding Type IV Pilus Biogenesis.”

► **Stephen Gottlieb, MD**, Professor, Department of Medicine, is part of an 11-site, five-year research project funded by a \$10.7M grant from the National Heart Lung & Blood Institute to study the genetic basis of a common type of heart failure called dilated cardiomyopathy (DCM). The study will test the hypothesis that almost all DCM with an unknown cause, “idiopathic DCM,” has a genetic basis. The researchers will conduct a type of genetic research called phenotyping, looking at 1,200 people with DCM, half of them European and half of African ancestry, and their 4,800 family members throughout the U.S.

► **Tara LeGates, PhD**, Postdoctoral Research Fellow, Department of Physiology, received a two-year, \$70,000 NARSAD Young Investigator research grant from the Brain Behavior Research Foundation for “Functional Dissection of Reward Circuits Underlying Depression and Antidepressant Response.”



Louis DeTolla, VMD, MS, PhD, DACLAM



Stephen Gottlieb, MD

GRANTS & CONTRACTS *continued*



Gautam Ramani, MD

► **Gautam Ramani, MD**, Assistant Professor, Department of Medicine, was recently the recipient of two grants: a \$50,000 grant from UCSD for “U.S. CTEPH Registry” and a \$38,375 grant from the University of Pittsburgh for “GRAHF-2 Genomic Analysis of Enhanced Response to Heart Failure Therapy in African Americans.”

► **Fabio Romerio, PhD**, Assistant Professor of Medicine, Institute of Human Virology, received a five-year, \$1,860,166 R01 grant from the National Institute of Allergy and Infectious Diseases (NIAID) for “Quantification of the HIV-1 Reservoir by Immuno-PCR.”



Fabio Romerio, PhD

► **Taecheon Shin, PhD**, Assistant Professor, Department of Diagnostic Radiology and Nuclear Medicine, was recently awarded two grants: A NIH R21 grant in the amount of \$428,108 for “Early to Late Gadolinium Enhancement Cardiac MRI in Ischemic and Non-Ischemic Cardiomyopathies,” which aims to develop time-resolved gadolinium enhancement cardiac MRI and utilize resultant contrast kinetics to improve the differentiation among various states of cardiomyopathy. He also received \$148,295 from GE Healthcare for “Free-Breathing 3D Contrast-Enhanced Cardiac MRI at 3T.” This project aims to develop respiratory motion-corrected free-breathing 3D cardiac MRI for coronary artery and arterial imaging.

► **Avelino Verceles, MD**, Assistant Professor, Department of Medicine, received a two-year, \$422,125 grant from the National Institute on Aging at NIH for “Rehabilitation, NMES and High Protein to Reduce Post ICU Syndrome in the Elderly.”



Avelino Verceles, MD

► **Jixin Zhong, MD**, Assistant Professor, Department of Medicine, received a \$25,000 grant from the Mid-Atlantic Nutrition Obesity Research Center for “Targeting DPP4 Non-Enzymatic Activity in Modulating Obesity-Induced Adipose Tissue Inflammation and Insulin Resistance.”

► **H. Ronald Zielke, PhD**, Professor, Department of Pediatrics, received \$1,621,862 to fund the second year of a five-year joint contract with the National Institute of Mental Health (NIMH), the National Institute of Child Health and Human Development (NICHD) and the National Institute of Neurological Disorders and Stroke (NINDS) in support of the University of Maryland Brain and Tissue Bank. Dr. Zielke was also awarded a \$22,000 liquid nitrogen storage tank (used to store human fibroblasts from tissue donors) from manufacturer Taylor-Wharton, who was looking to award a lab involved in autism research. Scientists studying Autism Spectrum Disorders have published more than 120 scientific papers based on research done using tissue samples from the UMB Bank.



Taylor-Wharton representatives present Dr. Zielke and members of his lab with a liquid nitrogen storage tank.

NEW FACULTY



We welcome our new faculty!

► **Donna Calu, PhD**, has been appointed as an Assistant Professor in the Department of Anatomy & Neurobiology. Dr. Calu received her BS in Biology from University of Maryland, College Park in 2004. In 2010, she received her PhD in Neuroscience from the University of Maryland School of Medicine. After her postdoctoral fellowship with the National Institute on Drug Abuse under an Intramural Research Training Award from 2010–2011, she served as NIH’s first Early Independent Scientist from 2011–2015.

IN THE NEWS



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

► **Donna Egbulem, MPH** student, Department of Epidemiology & Public Health, has been selected as an American Prevention and Teaching Research (APTR) Paul Ambrose Scholar. The 2015 class of APTR Paul Ambrose Scholars are dedicated to bringing health promotion and preventive approaches to health professions education and their communities.



Daniel Morgan, MD, MS

► **Daniel Morgan, MD, MS**, Associate Professor, Department of Epidemiology & Public Health, was quoted in a variety of publications in August, including *Infectious Disease News* and *Becker's Infection Control & Clinical Quality*, following the release of his study "Use of Contact Precautions to Prevent Spread of MRSA and VRE in Hospitalized Patients Should Be Customized Based on Local Needs and Resources."

► **Kathleen Neuzil, MD, MPH, FIDSA**, Professor of Medicine and Director of the Center for Vaccine Development, was on *CBS Evening News with Scott Pelley* on September 17, discussing the flu shot. She was also quoted in *US News and World Report* on September 17 in the article "Flu Shot or Not? Majority Say No to the Needle: As Flu Season Begins, Many Still Choose Not to Get Vaccinated."

► **Christopher Plowe, MD, MPH**, was featured in *The Lancet* in a Newsdesk story about the Elimination of Malaria in Myanmar Conference in Washington, DC, in August. Dr. Plowe was instrumental in orchestrating this unprecedented meeting between Myanmar government and military officials and representatives from Myanmar's main opposition party (National League for Democracy). The conference was co-sponsored by the Institute for Global Health, which Dr. Plowe directs.

► **Kate Tracy, PhD**, Associate Professor, Department of Epidemiology & Public Health, was quoted in



Kathleen Neuzil, MD, MPH, FIDSA



Christopher Plowe, MD, MPH

The Baltimore Sun on August 28 in a story about survey data she was compiling studying community perceptions about the Horseshoe casino one year after it opened.

► **Sara Uehara, MPH** student, Department of Epidemiology & Public Health, wrote an op-ed piece in *The Baltimore Sun* on August 27 entitled "Why Do Poor Kids Get More Cavities?"

► **Emerson Wickwire, PhD, ABPP, CBSM, FAASM**, Assistant Professor, Departments of Psychiatry and Medicine, was a featured expert in the August 28 Reuters story "Sleep-Deprived Kids are More Tempted by Food."

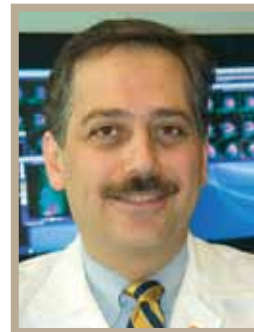


Kate Tracy, PhD

APPOINTMENTS



We applaud our colleagues on their recent appointments!



Vasken Dilsizian, MD

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, has been appointed to the Advisory Committee of the Cardiovascular and Renal Drugs Division of the FDA.

► **Steven Prior, PhD**, Assistant Professor, Department of Medicine, has been appointed to a three-year term on the Gerontological Society of America Publications Committee. He will serve as a Biological Sciences Section Representative from 2015–2018.

► **Emerson Wickwire, PhD, ABPP, CBSM, FAASM**, Assistant Professor, Departments of Psychiatry and Medicine, has been named President of the Maryland Sleep Society, a state professional association. He will serve a two-year term from 2015–2017. He has also been appointed to the Telemedicine Implementation Task Force of the American Academy of Sleep Medicine and has been appointed Associate Editor of *The Journal of Clinical Sleep Medicine*, the leading clinical journal in the field focused on applied clinical science.

HONORS & AWARDS



Congratulations to the following who have received honors!



Marc Hochberg, MD, MPH

► **Marc Hochberg, MD, MPH**, Professor & Vice Chair, Department of Medicine, received the British Medical Association's 2015 BMA Medical Book Awards President's Choice Award - Runner Up, for his contribution to *Rheumatology 6th Edition*.

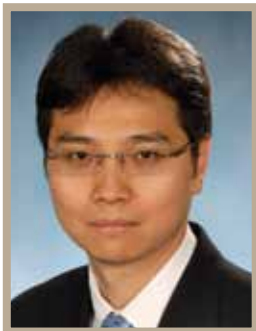
► **David Kaetzel, PhD**, Professor, Department of Biochemistry & Molecular Biology, served as a grant reviewer on the NIH Tumor Progression and Metastasis (TPM) Study Section

in June 2015, and for the Department of Defense in November 2015 as Chair of the CDMRP (Congressionally Directed Medical Research Programs) 2015 PRCRP (Peer Reviewed Cancer Research Program) review panel.



David Kaetzel, PhD

► **Anthony Kim, PhD**, Assistant Professor, Department of Neurosurgery, recently received the 2015 New Investigator Grant Award from the American Association of Pharmaceutical Scientists (AAPS). The Investigator Grant is meant to support critical pilot studies to demonstrate the feasibility of a new and novel direction of research.



Anthony Kim, PhD

► **Denise Orwig, PhD**, Associate Professor, Department of Epidemiology & Public Health; **Eileen Barry, PhD**, Professor of Medicine, Institute for Global Health; and **Jacques Ravel, PhD**, Professor of Microbiology & Immunology, and Associate

Director, Genomics, Institute for Genome Sciences, have all been chosen as one of twelve University System of Maryland's PROMISE AGEF Outstanding Faculty Mentors for 2015-2016. The National Science Foundation's Alliances



Denise Orwig, PhD

for Graduate Education and the Professoriate (AGEP) program is intended to increase significantly the number of domestic students receiving doctoral degrees in the sciences, technology, engineering, and mathematics (STEM), with special emphasis on those population groups underrepresented in these fields. The PROMISE Outstanding Faculty Mentors were chosen by underrepresented graduate students in STEM fields and leaders of STEM diversity programs such as the NSF Louis Stokes Alliance for Minority Participation Bridge to the Doctorate Programs (LSAMP-BD) at UMBC and College Park, and the NIH Meyerhoff Biomedical Graduate Fellowship Program at UMBC and UMB.

► Four faculty from the Graduate Program in Molecular Microbiology & Immunology were honored at the PROMISE Workshop on Enhancing Faculty Understanding of Diversity Issues in Graduate and Postdoctoral Education for their work. **Eileen Barry, PhD**, Professor of Medicine, Institute for Global Health, and **Gregory Carey, PhD**, Assistant Professor; **Eduardo Davila**, Associate Professor, and **Bret Hassel**, Associate Professor, all from the Department of Microbiology & Immunology, were recognized for their work mentoring, developing programs and advocating for underrepresented minorities in STEM fields. Congratulations to these faculty for their initiative to improve diversity in the STEM fields, especially the microbiology and immunology disciplines.



Gregory Carey, PhD

PROMISE: Maryland's AGEF is a university system-wide effort for the state of Maryland to facilitate underrepresented STEM graduate student and postdoctoral professional development and pathways to careers. University of Maryland Baltimore County (UMBC) leads the alliance, which consists of all 14 colleges, universities, and regional education centers in the University System of Maryland. PROMISE has been a critical catalyst for increasing enrollment, retention, and graduation rates of underrepresented minorities.



PUBLICATIONS

Hats off to those who have been published!



Clement Adebamowo, BM,
ChB, ScD

► **Clement Adebamowo, BM, ChB, ScD**, Professor, Department of Epidemiology & Public Health, was last author, and **William Blattner, MD**, Professor, Department of Epidemiology & Public Health, was a co-author, on “Developing National Cancer Registration in Developing Countries - Case Study of the Nigerian National System of Cancer Registries” in *Front Public Health*, 2015 Jul 30;3:186.

► **Mary Beth Bollinger, DO**, Associate Professor, Department of Pediatrics was among the co-authors on “Factors Associated with High Short Acting Beta2 Agonist (SABA)

Use in Urban Children with Asthma” in *Annals of Allergy Asthma Immunology*, 2015 May; 385-392.

► **Michael Bond, MD**, Associate Professor and Residency Program Director, Department of Emergency Medicine, was a co-author on “Recommendations from the Council of Residency Directors (CORD) Social Media Committee on the Role of Social Media in Residency Education and Strategies on Implementation” in *Western Journal of Emergency Medicine*, 2015 Jul; 16(4): 510–515. The recommendations were drafted by CORD’s Social Media Committee, discussed during a day-long forum at CORD’s 2014 Academic

Assembly, and then refined by a panel of 22 emergency medicine residency program directors and social media experts who came together on Google Groups, an online discussion platform.

► **Angela Brodie, PhD**, Professor, Department of Pharmacology; **Todd Gould, MD**, Associate Professor, Department of Psychiatry; and **Istvan Merenthaler,**



Mary Beth Bollinger, DO



Angela Brodie, PhD

MD, PhD, DSc, Professor, Department of Epidemiology & Public Health, were among the co-authors on “The Prodrug DHED Selectively Delivers 17β-estradiol to the Brain for Treating Estrogen-Responsive Disorders” in *Science Translational Medicine*, 2015 Jul;7(297):297ra113.

► **Cristina Campassi, MD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine; **Olga Goloubeva, PhD, MSc**, Associate Professor, Department of Epidemiology & Public Health; **Susan Kesmodel, MD**, and **Emily Bellavance, MD**, both Assistant Professors, Department of Surgery; **Steven Feigenberg, MD**, Professor, Department of Radiation Oncology; **Olga Ioffe, MD**, Professor, Department of Pathology; and **Katherine Tkaczuk, MD**, Professor, Department of Medicine, were among the co-authors on “Breast Magnetic Resonance Imaging (MRI) Surveillance in Breast Cancer Survivors” in *Springerplus*, 2015 Aug 28;4:459.



Rose Chasm, MD

► **Rose Chasm, MD**, Clinical Assistant Professor, and **Zachary Dezman, MD, MS**, Clinical Instructor, Department of Emergency Medicine, published an article in the “Images in Emergency Medicine” section of the October issue of *Annals of Emergency Medicine*. The article described an 11-year-old girl with nasal congestion, fever, and blurred vision in her right eye. The authors’ description of the diagnostic process and treatment strategy can be read at [www.annemergmed.com/article/S0196-0644\(14\)01403-6/pdf](http://www.annemergmed.com/article/S0196-0644(14)01403-6/pdf).

► **Alan Cross, MD**, Clinical Professor, and **Girish Ramachandran, PhD**, Research Associate, both from the Department of Medicine and the Institute for Global Health, were among the co-authors on “Potential Role of Autophagy in the Bactericidal Activity of Human PMNs for B. anthracis” in *FEMS Pathogens and Disease*, 2015 Sep 30 [Epub ahead of print].

► **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Treatment of Post-Traumatic Carotid-Cavernous Fistulas



Dheeraj Gandhi, MBBS

PUBLICATIONS *continued*

Using Pipeline Embolization Device Assistance” in *Journal of Neurointerventional Surgery*, 2015 Sep 2 [Epub ahead of print].

► **Jack Guralnik, MD, PhD, MPH**, Professor, Department of Epidemiology & Public Health, was among the co-authors on “Loss of Weight in Obese Older Adults: A Biomarker of Impending Expansion of Multimorbidity?” in *Journal of the American Geriatric Society*, 2015 Sep;63(9):1791-7; “Effect of a 24-Month Physical Activity Intervention vs Health Education on Cognitive Outcomes in Sedentary Older Adults: The LIFE Randomized Trial” in *JAMA*, 2015 Aug 25;314(8):781-90; “Gait Speed Predicts Incident Disability: A Pooled Analysis,” in *The Journals of Gerontology, Series A, Biological Sciences and Medical Sciences*, 2015 Aug 22 [Epub ahead of print]; “Association of Physical Activity History with Physical Function and Mortality in Old Age,” in *The Journals of Gerontology, Series A, Biological Sciences and Medical Sciences*, 2015 Aug 18 [Epub ahead of print]; and “Early Life Adversity and C-Reactive Protein in Diverse Populations of Older Adults: A Cross-Sectional Analysis from the International Mobility in Aging Study (IMIAS)” in *BMC Geriatrics*, 2015 Aug 19;15:102.



Erin Hager, PhD

► **Erin Hager, PhD**, Assistant Professor, and **Maureen Black, PhD**, the **John A. Scholl, MD**, and **Mary Louise Scholl, MD**, Professor, both from the Department of Pediatrics, and **Soren Snitker, MD**, Associate Professor, Department of Medicine, were among the co-authors on “Ankle Accelerometry for Assessing Physical Activity Among Adolescent Girls: Threshold Determination, Validity, Reliability, and Feasibility” in *Research Quarterly for Exercise and Sport*, 2015 Aug 19:1-9 [Epub ahead of print].

► **Shannon Takala Harrison, PhD**, Associate Professor of Medicine;

Christopher Plowe MD, MPH, FASTMH, Professor of Medicine; and **Miriam Laufer, MD, MPH**, Associate Professor of Pediatrics, all from the Institute for Global Health, which Dr. Plowe directs, were among the co-authors on “Persistence of



Shannon Takala Harrison, PhD



Xiaofeng Jia, BM, PhD

Sulfadoxine-Pyrimethamine Resistance Despite Reduction of Drug Pressure in Malawi” in *Journal of Infectious Diseases*, 2015 212(5):694-701. Drs. Takala-Harrison and Laufer were also among the co-authors on “The Effect of Local Variation in Malaria Transmission on the Prevalence of Sulfadoxine-Pyrimethamine Resistant Haplotypes and Selective Sweep Characteristics in Malawi” in *Malaria Journal*, 2015 Oct 5;14(1):387. Dr. Plowe was co-author on “Artemisinin Resistance in Myanmar” in *The Lancet Infectious Diseases* 2015 Sep;15(9):1001-2.

► **Xiaofeng Jia, BM, PhD**, Associate Professor, Departments of Neurosurgery and Orthopaedics, was the co-corresponding author, and **Junyun He, PhD**, Postdoctoral Fellow, Department of Neurosurgery, was among the co-authors on “3D Printed Anatomical Nerve Regeneration Pathways” in *Advanced Functional Materials*, 2015 Sep 18;25(39):6205-6217. Dr. Jia was also the senior author on “Early Prognostication Markers in Cardiac Arrest Patients Treated with Hypothermia” in *European Journal of Neurology*, 2015 Jul 31 [Epub ahead of print].

► **Seth Kligerman, MD**, Assistant Professor, and **Jeffrey Galvin, MD**, Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Mosaic Attenuation: Etiology, Methods of Differentiation, and Pitfalls” in *Radiographics*, 2015 Sep-Oct;35(5):1360-80.



Judy LaKind, PhD

► **Judy LaKind, PhD**, Adjunct Associate Professor, Department of Epidemiology & Public Health, was first author on “Improving Concordance in Environmental Epidemiology: A Three-Part Proposal,” in *Journal of Toxicology Environmental Health. Part B, Critical Reviews*, 2015;18(2):105-20.

► **Erik Lillehoj, PhD**, Associate Professor, Department of Pediatrics, was among the co-authors on



Seth Kligerman, MD

PUBLICATIONS *continued*



Erik Lillehoj, PhD

“Immune Alterations in Acute Bipolar Depression” in *Acta Psychiatrica Scandinavica*, 2015 Jun 9;(132):204-210.

► **Michael Liquori, MD**, Clinical Instructor; **Elizabeth Lamos, MD**, Assistant Professor; and **Jeffrey Fink, MD, MS**, Professor, all of Department of Medicine; and **Lindsay Croft, PhD**, Postdoctoral Fellow; **Lisa Pineles, MA**, Research Associate; **Patricia Langenberg, PhD**, Professor Emeritus; **Anthony Harris, MD, MPH**, Professor; and **Daniel Morgan, MD**, Associate Professor, were among the co-authors on “The Effect of Contact Precautions on Frequency of Hospital Adverse Events” in *Infection Control and Hospital Epidemiology*, 2015 Nov;36(11):1268-74.

► **Dirk Mayer, Dr rer nat**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Transient CNS Responses to Repeated Binge Ethanol Treatment” in *Addiction Biology*, 2015 Aug 18 [Epub ahead of print].



Dirk Mayer, Dr rer nat

► **Monica McArthur, MD, PhD**, Assistant Professor of Pediatrics, and **Robert Edelman MD**, Clinical Professor of Medicine, both from the Institute for Global Health, were co-authors on “A Promising, Single-Dose, Live Attenuated Tetravalent Dengue Vaccine Candidate” in *Journal of Infectious Diseases*, 2015 Sep 1;212(5):681-3.



Monica McArthur, MD, PhD

► **Braxton Mitchell, PhD, MPH**, Professor, Department of Medicine, was the first author on “Endovascular Recanalization in Acute Ischemic Stroke Using the Solitaire FR Revascularization Device



Braxton Mitchell, PhD, MPH

with Adjunctive C-Arm CT Imaging” in *AJNR. American Journal of Neuroradiology*, 2015 Jul;36(7):1317-20.



Emmanuel Mongodin, PhD

► **Emmanuel Mongodin, PhD**, Assistant Professor of Microbiology & Immunology, and **Claire Fraser, PhD**, Professor of Medicine, Microbiology & Immunology, both from the Institute for Genome Sciences, which Dr. Fraser directs, co-authored “The Oral Bacterial Communities of Children with Well-Controlled HIV Infection and Without HIV Infection” in *PLoS One*, 2015 Jul 6;10(7):e0131615.

► **Daniel Morgan, MD**, Associate Professor, Department of Epidemiology & Public Health, was first author on “Setting a Research Agenda for Medical Overuse” in *BMJ (Clinical Research)*, 2015 Aug 25;351:h4534.

► **Patrick Odonkor, MB, ChB**, Assistant Professor, Department of Anesthesiology, and **Kerri Thom, MD, MS**, Associate Professor, Department of Epidemiology & Public Health, were among the co-authors on “Validation of a Dosing Strategy for Cefazolin for Surgery Requiring Cardiopulmonary Bypass” in *Surgical Infections (Larchmt)*, 2015 Aug 20 [Epub ahead of print].

► **Steven Prior, PhD**, Assistant Professor; **Andrew Goldberg, MD**, Professor Emeritus; **Heidi Ortmeyer, PhD**, Assistant Professor; **Jacob Blumenthal, MD**, Assistant Professor; and **Alice Ryan, PhD**, Professor, all from the Department of Medicine, were among the co-authors on “Increased Skeletal Muscle Capillarization Independently Enhances Insulin Sensitivity in Older Adults After Exercise Training and Detraining” in *Diabetes*, 2015 Oct;64(10):3386-95.



Steven Prior, PhD

► **Prashant Raghavan, MD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine, and **Narlin Beaty, MD**, Resident, Department of Neurosurgery, were among the co-authors on “Magnetic Resonance Imaging to Evaluate Cervical Spinal Cord Injury from Gunshot Wounds from Handguns” in *World Neurosurgery*, 2015 Sep 1;pii: S1878-8750(15)01049-9 [Epub ahead of print].

PUBLICATIONS *continued*

► **Jacques Ravel, PhD**, Professor of Microbiology & Immunology, and Associate Director, Genomics, Institute for Genome Sciences, was among the co-authors on “Nested PCR Biases in Interpreting Microbial Community Structure in 16S rRNA Gene Sequence Datasets” in *PLoS One*, 2015 Jul 21;10(7):e0132253.

► **Alan Ropp, MD**, Resident, and **Derik Davis, MD**, Assistant Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, co-authored “Scapular Fractures: What Radiologists Need to Know” in *AJR. American Journal of Roentgenology*, 2015 Sep;205(3):491-501.



Jacques Ravel, PhD

► **Horea Rus, MD, PhD**, Professor, Department of Neurology; **Alexandu Tatomir, MD**, Postdoctoral Fellow, Department of Neurology; and **Violeta Rus, MD, PhD**, Associate Professor, Department of Medicine, were among the co-authors on “The Role of Complement Activation in Atherogenesis: The First 40 Years” in *Immunologic Research*, 2015 Jun 20 [Epub ahead of print].

► **Lynn Schriml, PhD**, Assistant Professor of Epidemiology & Public Health, Institute for Genome Sciences, was among the co-authors on “The Human Phenotype Ontology: Semantic Unification of Common and Rare Disease” in *The American Journal of Human Genetics*, 2015 Jul 2;97(1):111-24.

► **Taecheon Shin, PhD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine (lead author), along with **Robert Crafword, MD**, Assistant Professor, Department of Surgery, and **Sanjay Rajagopalan, MBBS, FACC, FAHA**, the Melvin Sharoky Endowed Professor in Cardiovascular Medicine, Department of Medicine, were



Lynn Schriml, PhD

among the co-authors on “Identification and Reduction of Image Artifacts in Non-Contrast-Enhanced Velocity-Selective Peripheral Angiography at 3T” in *Magnetic Resonance in Medicine*, 2015 Aug 26 [Epub ahead of print].

► **Elizabeth Streeten, MD**, Associate Professor, Department of Medicine, was the author of “Bone as a Classic Endocrine Organ: Interactions With Non-Bone Tissues” in *Reviews in Endocrine & Metabolic Disorders*, 2015 Jun;16(2):77-8. She was also first author on “Fractures on Bisphosphonates in Osteoporosis Pseudoglioma Syndrome (OPPG): pQCT Shows Poor Bone Density and Structure” in *Bone*, 2015 Aug;77:17-23.

► **Gordon Smith, MB, ChB, MPH**, Professor, Department of Epidemiology & Public Health, was first author on “Variable Classification of Drug-Intoxication Suicides across

US States: A Partial Artifact of Forensics?” in *PLoS One*, 2015

Aug 21;10(8):e0135296; and a co-author with first author **Jennifer Albrecht, PhD**, Assistant Professor, Department of Epidemiology & Public Health, on “Patterns of Depression Treatment in Medicare Beneficiaries with Depression Following Traumatic Brain Injury” in *Journal of Neurotrauma*, 2015;32(16):1223-9. Dr. Albrecht was also first author on “New Episodes of Depression Among Medicare Beneficiaries With Chronic Obstructive Pulmonary Disease” in *International Journal of Geriatric Psychiatry*, 2015 Aug 18 [Epub ahead of print]; and “Depression Among Older Adults Following Traumatic Brain Injury: A National Analysis” in *American Journal of Geriatric Psychiatry*, 2015 Jul-Aug;30(4):E38-49.

► **Simeon Taylor, MD, PhD**, Professor, Department of Medicine, was the first author on “SGLT2 Inhibitors May Predispose to Ketoacidosis” in *Journal of Clinical Endocrinology and Metabolism*, 2015 Aug;100(8):2849-52.



Elizabeth Streeten, MD



Jennifer Albrecht, PhD



Simeon Taylor, MD, PhD

PUBLICATIONS *continued*



Getachew Teshome, MD, MPH

► **Getachew Teshome, MD, MPH**, Assistant Professor (first author); **Janet Braun, RN, BSN**, and **Richard Lichenstein, MD**, Professor, all from the Department of Pediatrics, were among the co-authors on “Ketamine Sedation After Administration of Oral Contrast: A Retrospective Cohort Study” in *Hospital Pediatrics*, 2015 Sept; 5 (9): 495-500. Dr. Lichenstein was also among the co-authors on “Near Misses and Unsafe Conditions in a Pediatric Emergency Research Network” in *BMJ Open*, 2015 Sep 2;5(9):e007541.

► **Hervé Tettelin, PhD**, Associate Professor of Microbiology and Immunology, Institute for Genome

Sciences, was among the co-authors on “Clonal Diversification, Changes in Lipid Traits and Colony Morphology in *Mycobacterium abscessus* Clinical Isolates” in *Journal of Clinical Microbiology*, 2015 Nov;53(11):3438-47.

► **Stephen Thom, MD, PhD**, Professor, Department of Emergency Medicine, recently published two articles in the applied physiology literature documenting his ongoing studies of the role of microparticles in decompression sickness. His research team of **Ming Yang, MD**, Research Associate; **Veena Bhopale, PhD**, Laboratory Research Specialist; and **Jasjeet Bhullar, PhD**, Postdoctoral Fellow, along with colleagues from the University of Split in Croatia, were co-authors on “Ascorbic Acid Supplementation Diminishes Microparticle Elevations and Neutrophil Activation Following SCUBA Diving” in *American Journal of Physiology: Regulatory, Integration and Comparative Physiology*, 2015 Aug 15;309(4):R338-44. Dr. Thom was also the lead author on “Association of Microparticles and Neutrophil Activation with Decompression Sickness” in *Journal of Applied Physiology*, 2015 Sep. That article presents the findings of an international collaborative investigation, with contributions from Dr. Yang; Dr. Bhopale; **Douglas Sward, MD**, Clinical Assistant Professor, Department of Emergency Medicine; and colleagues from California, North Carolina, Pennsylvania, Australia, Belgium, Croatia, Italy, and Sweden.



Hervé Tettelin, PhD

► **Andrew Tkaczuk, MD, PGY-3**; **John Caccamese, MD, DMD**, Associate Professor; and **Kevin Pereira, MBBS, MS**, Professor, all from the Department of Otolaryngology-Head and Neck Surgery, were among the co-authors on “Cystic Lesions of the Jaw in Children: A 15-Year Experience” in *JAMA Otolaryngology, Head and Neck Surgery*, 2015 Sep 1;141(9):834-9. Dr. Pereira and **Isaiah Amal, MD**, Resident, were among the co-authors on “Oxygen Flow During Pediatric Laryngoscopy: A Simple Solution” in *Laryngoscope*, 2015 Jul 7 [Epub ahead of print].



Kevin Pereira, MBBS, MS



Frank Toapanta, MD, PhD

► **Frank Toapanta, MD, PhD**, Assistant Professor of Medicine; **Marcelo Szein MD**, Professor of Pediatrics; and **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 Institute for Global Health, were among the co-authors on “Oral Wild-Type *Salmonella Typhi* Challenge Induces Activation of Circulating Monocytes and Dendritic Cells in Individuals Who Develop Typhoid Disease” in *PLoS Neglected Tropical Diseases*, 2015 Jun 11;9(6):e0003837.

► **Christina Tupe, MD**, Clinical Instructor, Department of Emergency Medicine, was among the co-authors on “In-Flight Medical Emergencies During Commercial Travel” in *The New England Journal of Medicine*, 2015 Sep 3;373(10):939-45. The article discussed the resources available to physicians who are asked to provide medical care to airline passengers, legal responsibilities and ramifications, and suggested responses to specific medical conditions. It is available at www.nejm.org/doi/full/10.1056/NEJMra1409213.

► **Ming Yang, MD**, Research Associate; **Veena Bhopale, PhD**, Laboratory Research Specialist; and **Stephen Thom, MD, PhD**, Professor, all from the Department of Emergency Medicine, recently published two articles in *Journal of Applied Physiology*: “Ascorbic Acid Abrogates Microparticle Generation and Vascular Injuries Associated with High-Pressure Exposure” (2015 Jul 1;119(1):77-82)

PUBLICATIONS *continued*

and “Separating the Roles of Nitrogen and Oxygen in High Pressure-Induced Blood-Borne Microparticle Elevations, Neutrophil Activation, and Vascular Injury in Mice” (2015 Aug 1;119(3):219-22).

► **Jiachen Zhuo, PhD**, Assistant Professor; **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 “Changes in Diffusion Kurtosis Imaging and Magnetic Resonance Spectroscopy in a Direct Cranial Blast Traumatic Brain Injury (dc-bTBI) Model” in *PLoS One*, 2015 Aug 24;10(8):e0136151. Drs. Zhuo and Gullapalli, along with **Chandler Sours, PhD**, Postdoctoral Fellow; **Steven Roys, MS**, Research Associate; and **Kathirkama Shanmuganathan, MBBS**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Disruptions in Resting State Functional Connectivity and Cerebral Blood Flow in Mild Traumatic Brain Injury Patients” in *PLoS One*, 2015 Aug 4;10(8):e0134019.



Rao Gullapalli, PhD, MBA



Semhar Tewelde, MD

► **Semhar Tewelde, MD**, Assistant Professor, Department of Emergency Medicine, and **Joshua Reynolds, MD, MS**, a 2011 graduate of the Emergency Medicine residency program, were guest editors of the August issue of *Emergency Medicine Clinics of North America*. The topic was cardiovascular emergencies. Nine of the 14 articles in this issue were created by emergency medicine (EM) faculty members and residents:

- “Cardiovascular Catastrophes in the Obstetric Population” by **Sarah Dubbs, MD**, Clinical Assistant Professor, and Dr. Tewelde
- “The Critically Ill Infant with Congenital Heart Disease” by **Ashley Strobel, MD**, a 2015 EM Residency graduate, and **Mimi Lu, MD, MS**, Clinical Assistant Professor

- “Chameleons: Electrocardiogram Imitators of ST-Segment Elevation MI” by **J.V. Nable, MD, NRP**, former Clinical Instructor, and **Ben Lawner, DO, MS, EMT-P**, Assistant Professor

- “Hypertensive Emergencies in the Emergency Department”



Yemi Adebayo, MD

by **Yemi Adebayo, MD**, Clinical Instructor, and **Rob Rogers, MD**, former Associate Professor

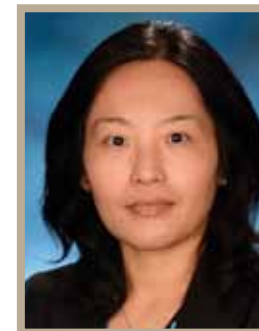
- “Congestive Heart Failure” by **Michael Scott, MD**, a 2015 EM Residency graduate, and **Michael Winters, MD**, Associate Professor

• “Atrial Fibrillation,” co-authored by **Laura Bontempo, MD**, Assistant Professor

• “Human Immunodeficiency Virus Infection-Related Heart Disease” by **Thuy Van Pham, MD**, Clinical Instructor, and **Mercedes Torres, MD**, Clinical Assistant Professor

- “Management of Crashing Patients with Pulmonary Hypertension” by **John Greenwood, MD**, a 2012 EM residency graduate (now with the University of Pennsylvania), and **Ryan Spangler, MD**, Clinical Instructor

- “Emergency Care of Patients with Pacemakers and Defibrillators” by **Michael Allison, MD**, a 2015 EM residency graduate, and **Haney Mallemat, MD**, Assistant Professor



Yuji Zhang, PhD

► **Yuji Zhang, PhD**, Assistant Professor, Department of Epidemiology & Public Health, was first author on “Identification of Sex-Associated Network Patterns in Vaccine-Adverse Event Association Network in VAERS” in *Journal of Biomedical Semantics*, 2015 Aug 19;6:33, and was among the co-authors on “Gene Expression Patterns in CD4+ Peripheral Blood Cells in Healthy Subjects and Stage IV Melanoma Patients” in *Cancer Immunology, Immunotherapy: CII*, 2015 Nov;64(11):1437-47.



J.V. Nable, MD, NRP

EVENTS, LECTURES

& WORKSHOPS



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



Adnan Bhutta, MBBS, FAAP

► **Adnan Bhutta, MBBS, FAAP**, Associate Professor, Department of Pediatrics, was the invited speaker for the First National Pediatric Critical Care Conference 2015, held in Karachi, Pakistan, on August 14 and 15. He presented on “Perioperative Care of Patients with Congenital Heart Disease” and “Monitoring in the Pediatric ICU.”

► **Michael Christy, MD, FACS**, Associate Professor, Department of Surgery, and Interim Chief of Plastic, Reconstructive and Maxillofacial Surgery, Program in Trauma, presented “Facial Ballistic

Trauma and the Evolution of Vascularized Composite Allotransplantation” at the AOCMF North America Conference on Maxillofacial Reconstruction in Las Vegas earlier this year.

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, delivered three oral presentations at the 20th Annual Scientific Session of the American Society of Nuclear Cardiology in Washington, DC, on September 18: “Novel Cardiac Imaging Indications Beyond Ischemic Heart Disease: From Inflammation to Infection Imaging;” “FDG: Everything You Need to Know—

Viability, Sarcoidosis, Inflammation, and Infection Imaging;” and “Diagnosing a Great Conundrum: Device Infections and Endocarditis.” He was also the moderator of the Advanced Debate Session “PET/MR and New Tracers.” Additionally, Dr. Dilsizian was an invited speaker on “Current Clinical Practice and Advances in Nuclear Cardiology” at the U.S. Food and Drug Administration (FDA) headquarters, Division of Medical Imaging Products, in Silver Spring, MD, on September 21.

► **Ronald Gartenhaus, MD**, Professor, Department of Medicine, was a Visiting Professor and presented Oncology Grand Rounds on “MNKs Modulate Oncogenic Translation in Diffuse Large



Ronald Gartenhaus, MD



Michael Christy, MD, FACS



Bryan Hayes, PharmD



Ronna Hertzano, MD, PhD

B-Cell Lymphoma” on September 11 at the Georgetown University Lombardi Comprehensive Cancer Center in Washington, DC.

► **Michael Grasso, MD, PhD**, Assistant Professor, Departments of Medicine and Emergency Medicine; **David Jerrard, MD**, Associate Professor, Department of Emergency Medicine, and **Bradford Cotter, MD**, 2nd year Emergency Medicine Resident, were co-authors on “The Impact of a Follow-Up Clinic on Unscheduled Return Emergency Department Visits,” which they presented at the Research Forum of the American College of Emergency Medicine, held October 26–27 in Las Vegas.



Michael Grasso, MD, PhD

► **Bryan Hayes, PharmD**, Clinical Associate Professor in the Department of Emergency Medicine and the Department of Pharmacy Practice & Science at the University of Maryland School of Pharmacy, is participating in a workgroup convened by the American Academy of Clinical Toxicology to discuss and clarify the clinic applications of intravenous lipid therapy. Lipid emulsion has been used for about 10 years to counter cardiovascular collapse induced by local and regional anesthetics and, more recently, in the management of overdoses of lipophilic drugs. The purpose of the workgroup is to review the relevant medical literature and then develop evidence-based clinical guidelines. The structure and strategy of the group are described in *Clinical Toxicology*, 2015 Jul;53[6]:557-564).

► **Ronna Hertzano, MD, PhD**, Assistant Professor, Department of Otorhinolaryngology-Head and Neck Surgery, was an invited faculty member and speaker for the Marine Biology Course “Biology of the Inner Ear,” held from August 12–22 in Woods Hole, MA. Her topic was “Cell Type-Specific Approaches, Molecular Techniques and Bioinformatics.”

EVENTS, LECTURES & WORKSHOPS *continued*



Iris Lindberg, PhD

► **Iris Lindberg, PhD**, Professor, Department of Anatomy & Neurobiology, was invited by the Society of Neuroscience to submit a review to the *Journal of Neuroscience* on “Chaperones in Neurodegeneration,” based on the mini-symposium she chaired at the Annual Society for Neuroscience meeting in October.

► **Emerson Wickwire, PhD, ABPP, CBSM, FAASM**, Assistant Professor, Departments of Psychiatry and Medicine, served on the faculty at the national Current Concepts in Sleep conference in St. Pete Beach, FL, on September 4–5. Over 375 attendees attended the event, where he presented “The ABCs of CBTs: Cognitive-Behavioral Treatments for Insomnia.”



Emerson Wickwire, PhD, ABPP, CBSM, FAASM

► Eight faculty members from the Department of Emergency Medicine participated in the 8th Mediterranean Emergency Medicine Congress, which was held in Rome in early September. **Terry Mulligan, DO, MPH**, Clinical Associate Professor, served on the Executive Committee of the conference. **Amal Mattu, MD**, Professor, was a keynote speaker, presenting “Becoming the Leader Others Follow.” Also traveling to Italy as invited speakers at this international event were **Brian Browne, MD**, Professor and Chair; **Ken Butler, DO**, Associate Professor; **Semhar Tewelde, MD**, Assistant Professor; **Larry Weiss, MD, JD**, Professor; **George Willis, MD**, Assistant Professor; and **Mike Winters, MD**, Associate Professor. The Department of Emergency Medicine was a host institution for the conference, which drew more than 950 participants from 61 countries. The faculty comprised 105 speakers from around the world. In addition to Dr. Mattu’s keynote address, School of Medicine faculty led two pre-courses, presented more than 30 lectures, and moderated several panels.



Amal Mattu, MD

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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Kristie Nichols

Anesthesiology: Pamela Earle-Jackson

Biochemistry & Molecular Biology:
Qun Zhou

Dermatology: Betsy Satosky
Diagnostic Radiology & Nuclear Medicine: Brigitte Pocta

Emergency Medicine:
Linda Kesselring

Epidemiology & Preventive Medicine: Yimei Wu

Family & Community Medicine:
Karen Webster

Medical & Research Technology:
Cynthia Stambach

Medicine: Molly Lutz

Microbiology & Immunology:
Teri Robinson

Neurology: Penelope Birckhead

Neurosurgery: Mari Jo Pohlner

Obstetrics, Gynecology & Reproductive Sciences: Robin Kissinger

Ophthalmology: Chinneta Pettaway-Willis

Orthopaedics: Dori Kelly

Otorhinolaryngology: Bryan Ambro

Pathology: Rob Christenson
Pediatrics: Denise Hansen

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Center for Research on Aging:
Kara Longo

Center for Shock, Trauma and Anesthesiology Research (STAR-ORC):
Gabriela Felton

Center for Stem Cell Biology & Regenerative Medicine
Fulscia Morrison

Center for Vaccine Development:
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Center for Vascular & Inflammatory Diseases: Talia Bailey

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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