



# What's the Buzz?

APRIL 2017 VOL.19 NO.4

SELF-REPORTED NEWS from the SCHOOL OF MEDICINE COMMUNITY

## Grants & Contracts

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



Eileen Barry, PhD

► **Eileen Barry, PhD**, Professor of Medicine, Center for Vaccine Development and the Institute for Global Health, received a two-year, \$99,993 grant from PATH for “Evaluation and Optimization of Inactivation Methods for *Shigella*-E-TEC Vaccine Strains.”

► **Daniel Covey, PhD**, Postdoctoral Fellow in the laboratory of **Joseph Cheer, PhD**, Associate Professor, Department of Anatomy & Neurobiology, received a three-year, \$183,234, National Research Service Award (NRSA) for “Endocannabinoid Regulation of Dopamine Function and Reinforcement.”

► **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, received a \$316,426 award from the Focused Ultrasound Foundation in February 2017. This 30-month grant will be used to study the treatment of neuropathic pain. The objectives of this pilot, single arm, prospective trial are to evaluate the safety, feasibility and efficacy of MR Guided Focused Ultrasound-assisted central lateral thalamotomy in the treatment of neuropathic pain. The study explores the hypothesis that patients treated with this technique will have improvement in pain scores and pain-related disability at three months and one year follow-up when compared to their pre-treatment baseline scores. Neuropathic pain has an estimated prevalence of 8 percent of adults



Dheeraj Gandhi, MBBS

and constitutes an important health problem. Direct medical costs related to treatments and physician visits, and indirect cost related to loss of productivity related to neuropathic pain, are staggering. Pharmacotherapy of neuropathic pain is often accompanied by impact on cognition, as well as higher executive functions. Moreover, there is significant potential for side effects and addiction.

► **Karen Kotloff, MD**, Professor of Pediatrics, Center for Vaccine Development and the Institute for Global Health, received a VTEU Task Order (FY2017.A1B1C1D1.0048 - Option D7a) from NIAID for \$208,465 over 1.5 years.

► **Miriam Laufer, MD**, Associate Professor of Pediatrics and Director of the Division of Malaria Research, Institute for Global Health, received a two-year, \$202,416 R21 award from NIAID for “Impact of Malaria During Pregnancy on Infant Health.”



Myron Levine, MD, DTPH

► **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor of Medicine and Associate Dean for Global Health, Vaccinology and Infectious Diseases, received a four-year, \$3,499,799 grant from the Gates Foundation for “Current Prevalence of Chronic Typhoid Carriers and Residual.”



Karen Kotloff, MD



Miriam Laufer, MD, MPH

## Grants & Contracts *continued*



Milagritos Tapia, MD

- ▶ **Milagritos Tapia, MD**, Associate Professor of Pediatrics, Center for Vaccine Development and the Institute for Global Health, received a one-year, \$39,056 award from PATH for “Meningitis A Vaccine Sustainability Project.”
- ▶ **R. Gentry Wilkerson, MD**, Assistant Professor, Department of Emergency Medicine, has received a grant in the amount of \$342,232 from Pfizer, Inc., to evaluate the efficacy and safety of Rivipansel in the treatment of vaso-occlusive crisis in hospitalized patients with sickle cell disease. Rivipansel is a new drug that reduces cell adhesion and inflammation and therefore could have a variety of clinical applications. Dr. Wilkerson’s multicenter trial will

test its ability to improve blood flow in people with sickle cell disease and thus alleviate their pain. In addition, Dr. Wilkerson received a Maryland Industrial Partnerships Program grant in the amount of \$100,000 to conduct a clinical study involving a new device for bedside placement of feeding tubes in the procedure called percutaneous ultrasound gastrostomy. With this device, a catheter with a small magnet attached to it is guided by a stronger magnet held outside the body while ultrasound provides visual feedback. This approach aims to be safer, simpler, and less expensive than the current standard, percutaneous endoscopic gastrostomy. The project is also supported by funds from the device’s manufacturer, CoapTech, LLC, the company co-founded by the device inventor, **Steven Tropello, MD**, Clinical Instructor, Department of Emergency Medicine.



R. Gentry Wilkerson, MD

## Honors & Awards

*Congratulations to the following who have received honors!*



Mary McKenna, PhD

▶ **Mary McKenna, PhD**, Professor of Pediatrics, Program in Neuroscience, was honored with a special issue of *Neurochemical Research* (Special Issue in Honor of Mary C. McKenna—*Neurochemistry Research*, 2017;42(1):1-319) for her contributions to the understanding of glutamate metabolism in brain and her leadership in the field of brain energy metabolism.

▶ **Jason Ramirez, MD**, Assistant Professor, Director of the Residency Program, and Director of Inpatient Medicine, Department of Family & Community Medicine, will be honored on May 8 as one of ten recipients of the 2017 New Faculty Scholar Award, presented by the Society of Teachers of Family Medicine.

▶ **Edward Timothy Souweine, MD**, Clinical Assistant Professor, Department of Medicine, received the Samuel P. Asper Award for Excellence in Internal Medicine at the 2017 Maryland Chapter of the American College of Physicians Scientific Meeting in Ellicott City, MD on February 17.

▶ Members of the Maryland delegation to this year’s annual meeting of the National Association of EMS Physicians, held in New Orleans in late January, received top honors for their poster presentation “Preliminary and Potential Impacts of a Multi-Phase Intervention Utilizing an EMS-Human Services Partnership on Call Volumes Generated by EMS Super-Users.” The poster presented results of a study of call volumes received by the Montgomery County Fire and Rescue Service before and after partnership with the county’s Department of Health and Human Services. By connecting “super-users” with community care resources, the partnership reduced this vulnerable group’s call volume by 64 percent. The study was conducted by members of the fire and rescue service, working in collaboration with **Roger Stone, MD, MS**, Clinical Assistant Professor and Medical Director, Montgomery County Fire and Rescue Service; **Ben Lawner, DO, MS, EMT-P**, Adjunct Assistant Professor and Director of Prehospital Services at Allegheny General Hospital; and **Jon Mark Hirshon, MD, MPH, PhD**, Professor, all from the Department of Emergency Medicine.



Roger Stone, MD, MS

# Publications

*Hats off to those who have been published!*



Clement Adebamowo, BM, ChB, ScD

► **Clement Adebamowo, BM, ChB, ScD**, Professor of Epidemiology & Public Health, Institute of Human Virology, and Associate Director, Population Science Program, Marlene and Stewart Greenebaum Cancer Center, was among the co-authors on “Integrated Genomic and Molecular Characterization of Cervical Cancer” in *Nature*. 2017 Jan 23 [Epub ahead of print]; and “Serum Metabolomic Profiles Identify ER-Positive Early Breast Cancer Patients at Increased Risk of Disease Recurrence in a Multicenter Population” in *Clinical Cancer Research*, 2017 Jan 12. [Epub ahead of print].

► **James Barrett, BA**, Research Fellow; **Rebecca Henry, BS**, Research Fellow; **Bogdan Stoica, MD**, Associate Professor; **Alok Kumar, PhD**, Postdoctoral Fellow; **Alan Faden, MD**, the David S. Brown Professor in Trauma; and **David Loane, PhD**, Associate Professor, all from the Department of Anesthesiology and the Shock, Trauma and Anesthesiology Research (STAR) Center, which Dr. Faden directs, were among the co-authors on “NOX2 Deficiency Alters Macrophage Phenotype Through An IL-10/STAT3 Dependent Mechanism:



Bogdan Stoica, MD

Implications for Traumatic Brain Injury” in *Journal of Neuroinflammation*, 2017 Mar;14(1):65.

► **Søren Bentzen, PhD, DMSc**, Professor, Department of Epidemiology & Public Health; and **Pranshu Mohindra, MD**, Assistant Professor; **Elizabeth Nichols, MD**, Assistant Professor; **Melissa Vyfhuis, MD, PhD**, Resident; and **Steven Feigenberg, MD**, Professor, all from the Department of Radiation Oncology, were among the co-authors on “Obesity is Associated with Long-Term Improved Survival in Definitively Treated Locally Advanced Non-Small Cell Lung Cancer (NSCLC)” in *Lung Cancer*, 2017 Feb;104:52–57.



Søren Bentzen, PhD, DMSc

► **Laura Bontempo, MD**, Assistant Professor; **Danya Khoujah, MBBS**, Assistant Professor; and **Zachary Dezman, MD**, Assistant Professor, all from the Department of Emergency Medicine, with **Andrew Crouter, MD**, Third-year Emergency Medicine Resident, University of Maryland Medical Center, co-authored “18-Year-Old Female with a Change in Mental Status” in the inaugural issue of *Clinical Practice and Cases in Emergency Medicine*, 2017 Mar;1:3-8.

► **Qi Cao, BM, PhD**, Assistant Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Diet-Induced Obesity Links to ER Positive Breast Cancer Progression via LPA/PKD-1-CD36 Signaling-Mediated Microvascular Remodeling” in *Oncotarget*, 2017 Feb 6 [Epub ahead of print].



Qi Cao, BM, PhD



Svetlana Chapoval, MD, PhD

► **Svetlana Chapoval, MD, PhD**, Visiting Assistant Professor of Microbiology & Immunology, Center for Vascular and Inflammatory Diseases and the Greenebaum Comprehensive Cancer Center, was the first and corresponding author on “Semaphorins 4A and 4D in Chronic Inflammatory Diseases” in *Inflammation Research*, 2017 Feb; 66:111-117. Co-authors included experts on semaphorin research in human chronic diseases from the Technion Faculty of Medicine, Haifa, Israel.

► **Sally Cheston, MD**, Assistant Professor; **Elizabeth Nichols, MD**, Assistant Professor; **Randi Cohen, MD**, Assistant Professor; and **Steven Feigenberg, MD**, Professor, all from the Department of Radiation Oncology; **Søren Bentzen, PhD, DMSc**, Professor, Department of Epidemiology & Public Health; **Cynthia Drogula, MD**, Assistant Professor; **Susan Kesmodel, MD**, Assistant Professor; **Emily Bellavance, MD**, Assistant Professor;



Steven Feigenberg, MD

## Publications *continued*

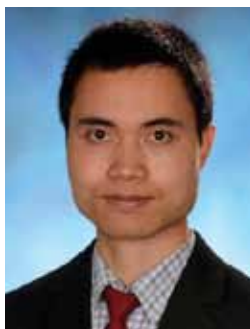
and **Sheri Slezak, MD**, Professor, all from the Department of Surgery; and **Paula Rosenblatt, MD**, Assistant Professor, and **Katherine Tkaczuk, MD**, Professor, both from the Department of Medicine, were among the co-authors on “Effect of Reduction Mammoplasty on Acute Radiation Side Effects and Use of Lumpectomy Cavity Boosts” in *Practical Radiation Oncology*, 2017 Jan 7 [Epub ahead of print].



Derik Davis, MD

► **Derik Davis, MD**, Assistant Professor, and **Ranyah Almadawi, MBBS, MPH**, Senior Research Analyst, both from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Practice Quality Improvement for Patient Positioning on Shoulder MRI to Reduce Potential Diagnostic Errors” in *Journal of the American College of Radiology*, 2017 Feb 17. pii: S1546-1440(16)31381-3 [Epub ahead of print].

► **Zachary D.W. Dezman, MD, MS**, Assistant Professor, Department of Emergency Medicine; **Cheng Gao, PhD**, Researcher; **Hsiao-Chi Li, PhD**, Researcher; **Shiming Yang, PhD**, Assistant Professor; **Peter Hu, PhD**, Associate Professor; and **Colin Mackenzie, MB, ChB**, Professor Emeritus, all from the Shock, Trauma and Anesthesiology Research Center and the Department of Anesthesiology, were among the co-authors on “Anomaly Detection Outperforms Logistic Regression in Predicting Trauma Patient Outcomes” in *Prehospital Emergency Care*, 2017 Mar-Apr;21(2):174-179.



Shiming Yang, PhD

► **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Science to Practice: Does FDG Differentiate Morphologically Unstable from Stable Atherosclerotic Plaque?” in *Radiology*, 2017 Apr;283(1):1-3.

► **Aletta Frazier, MD**, Clinical Professor, Department of Diagnostic Radiology & Nuclear Medicine, was the author of “Herpes Simplex Encephalitis” in *Radiographics*, 2017 Jan-Feb;37(1):198.



Vasken Dilsizian, MD

► **Pawel Gajer, PhD**, Research Associate; **Bing Ma, PhD**, Research Associate, Department of Microbiology & Immunology; **Mike Humphrys, MSc**, Lab Research Specialist; and **Jacques Ravel, PhD**, Professor of Microbiology & Immunology and Associate Director, Genomics, all from the Institute for Genome Sciences, were among the co-authors on “Distinct Effects of the Cervico-Vaginal Microbiota and Herpes Simplex Type 2 Infection on Female Genital Tract Immunology” in *Journal for Infectious Diseases*, 2017 Feb 13 [Epub ahead of print].



Bing Ma, PhD



Dheeraj Gandhi, MBBS

► **Dheeraj Gandhi, MBBS**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Thrombolytic Removal of Intraventricular Haemorrhage in Treatment of Severe Stroke: Results of the Randomised, Multicentre, Multiregion, Placebo-Controlled CLEAR III Trial” in *Lancet*, 2017 Feb 11;389(10069):603-611.

► **Ann Gruber-Baldini, PhD**, Professor (first author); **Denise Orwig, PhD**, Associate Professor; and **Jay Magaziner, PhD, MSHyg**, Professor and Chair (last author), all from the Department of Epidemiology & Public Health; **Lynn Grattan, PhD**, Associate Professor, Department of Neurology; and **Marc Hochberg, MD, MPH**, Professor, Department of Medicine, were among the co-authors on “Differences Between Men and Women who Fracture their Hip and Impact on Six-Month Survival” in *Journal of the American Geriatrics Society*, 2017 Feb 8 [Epub ahead of print]. Dr. Gruber-Baldini and **Erik Barr, BA**, Data Analyst, also from the Department of Epidemiology & Public Health, and **Friedrich Ranier von Coelln, DrMed**, Assistant Professor; **Stephen Reich, MD**, Professor; and **Lisa Shulman, MD**, Professor (last author), all from the Department of Neurology, were among the co-authors on “Response Shift—The Experience of Disease Progression in Parkinson Disease” in *Parkinsonism & Related Disorders*, 2017 Mar;36:52-56.



Ann Gruber-Baldini, PhD

► **Jack Guralnik, MD, PhD, MPH**, Professor, Department of Epidemiology & Public Health, was among the co-authors on “Fear

## Publications *continued*

of Falling and Its Association with Life-space Mobility of Older Adults: A Cross-sectional Analysis Using Data from Five International Sites” in *Age and Ageing*, 2017 Jan 1 [Epub ahead of print].



Stephanie Kahntroff, MD

► **Stephanie Kahntroff, MD**, Assistant Professor, Department of Anesthesiology, was among the co-authors on “Perioperative Hypothermia in Neonatal Intensive Care Unit Patients: Effectiveness of a Thermoregulation Intervention and Associated Risk Factors” in *Pediatric Anesthesia*, 2017 Feb;27(2):196-204.

► **Seth Kligerman, MD**, Assistant Professor; **Jean Jeudy, MD**, Associate Professor; and **Charles White, MD**, Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Use of Model-Based Iterative Reconstruction to Improve Detection of Congenital Cardiovascular Anomalies in Infants Undergoing Free-Breathing Computed Tomographic Angiography” in *Journal of Thoracic Imaging*, 2017 Mar;32(2):127-135.



Karen Kotloff, MD

► **Karen Kotloff, MD**, Professor of Pediatrics, and **James Campbell MD, MS**, Professor of Pediatrics, both from the Center for Vaccine Development and Institute for Global Health, were among the co-authors on “Safety and Immunogenicity of a Modified Vaccinia Ankara Vaccine Using Three Immunization Schedules and Two Modes of Delivery: A Randomized Clinical Non-Inferiority Trial” in *Vaccine*, 2017 Mar 23;35(13):1675-1682.

► **Alok Kumar, PhD**, Postdoctoral Fellow; **Bogdan Stoica, MD**, Associate Professor; **David Loane, PhD**, Associate Professor; **Gelareh Abulwerdi**, Graduate Student; **Niaz**



Jack Guralnik, MD, PhD, MPH



Seth Kligerman, MD



David Loane, PhD

**Khan, MS II**, Medical Scientist Training Program; **Asit Kumar, PhD**, Postdoctoral Fellow; and **Alan Faden, MD**, the David S. Brown Professor in Trauma, all from the Department of Anesthesiology and the Shock, Trauma and Anesthesiology Research (STAR) Center, which Dr. Faden directs, in collaboration with **Ming Yang, MD**, Research Associate, and **Stephen Thom, MD, PhD**, Professor, both from the Department of Emergency Medicine, were among the co-authors on “Microglia-Derived Microparticles Mediate Neuroinflammation After Traumatic Brain Injury” in *Journal of Neuroinflammation*, 2017 Mar;14:47.

► **Elizabeth Lamos, MD** (first author), Assistant Professor, and **Kristi Silver, MD** (last author), Associate Professor, both from the Department of Medicine, and **Laurence Magder, PhD**, Professor, Department of Epidemiology & Public Health, were among the co-authors on “Role of Glycemic Control on Hospital-Related Outcomes in Patients With Diabetes Mellitus Undergoing Renal Transplantation” in *Diabetes, Metabolic Syndrome and Obesity*, 2017 Jan 5;10:13-17.



Elizabeth Lamos, MD



Matthew Laurens, MD, MPH

► **Matthew Laurens, MD, MPH**, Associate Professor of Pediatrics; **Kirsten Lyke, MD**, Associate Professor of Medicine; **William Blackwelder, PhD**, Professor of Medicine; and **Christopher Plowe, MD, MPH**, the Frank M. Calia, MD Professor of Medicine and Founding Director, all from the Institute for Global Health, were among the co-authors on “Strain-Specific *Plasmodium falciparum* Growth Inhibition Among Malian Children Immunized with a Blood-Stage Malaria Vaccine” in *PLoS One*, 2017 Mar 10;12(3):e0173294 [eCollection 2017].

► **Yuanyuan Liang, PhD, MSc**, Interim Visiting Assistant Professor, Department of Epidemiology & Public Health, was among the co-authors on “Gaps in the Public’s Knowledge About Chronic Pain: Representative

## Publications *continued*

Sample of Hispanic Residents from Five States” in *The Journal of Pain*, 2017 Jan 12 [Epub ahead of print].



Thomas MacVittie, PhD

► **Thomas MacVittie, PhD**, Professor; **Ann Farese, MS, MT**, Assistant Professor; **Alex Bennett**, Research Lead Specialist; and **Karl Prado, PhD**, Professor, all from the Department of Radiation Oncology, were among the co-authors on “AEOL 10150 Mitigates Radiation-Induced Lung Injury in the Nonhuman Primate: Morbidity and Mortality are Administration Schedule-Dependent” in *Radiation Research*, 2017 Feb 10 [Epub ahead of print].

► **Maggie Matern, BSc**, Graduate Student (first author); **Beatrice Milon, PhD**, Research Supervisor; **Xiaoyu Zhang, PhD**, Assistant Professor; and **Ronna**

**Hertzano, MD, PhD**, Associate Professor, all from the Department of Otorhinolaryngology Head and Neck Surgery, and **Yang Song, PhD**, Bioinformatician, Institute for Genome Sciences, were among the co-authors on “Gfi1Cre Mice Have Early Onset Progressive Hearing Loss and Induce Recombination in Numerous Inner Ear Non-Hair Cells” in *Scientific Reports*, 2017 Feb 9;7:42079.

► **Monica McArthur, MD, PhD**, Assistant Professor (first author), and **Marcelo Sztein, MD**, Professor (last author), both from the Department of Pediatrics; **Wilbur Chen, MD, MS**, Associate Professor of Medicine, and **Myron Levine, MD, DTPH**, the Simon and Bessie Grollman Distinguished Professor and Associate Dean For Global Health, Vaccinology and Infectious Diseases, both from the Institute for Global Health; and **Laurence Magder, PhD**, Professor, Department of Epidemiology & Public Health, were the co-authors of “Impact of CD4+ T Cell Responses on Clinical Outcome following Oral Administration of Wild-Type Enterotoxigenic *Escherichia coli* in Humans” in *PLoS Neglected Tropical Diseases*, 2017 Jan 19;11(1):e0005291.



Beatrice Milon, PhD



Monica McArthur, MD, PhD



Mark Mishra, MD

► **Mark Mishra, MD**, Assistant Professor (first author); **Nancy Knight, PhD**, Associate Professor; **Minesh Mehta, MB, ChB, FASTRO**, Adjunct Professor; and **William Regine, MD, FACR, FACRO**, the Isadore & Fannie Schneider Foxman Chair and Professor (last author), all from the Department of Radiation Oncology; and **Soren Bentzen, PhD, DMSc**, Professor, Department of Epidemiology & Public Health, were among the co-authors on “Establishing Evidence-Based Indications for Proton Therapy: An Overview of Current Clinical Trials” in *International Journal of Radiation Oncology, Biology, Physics*, 2017 Feb 1;97(2):228-235.

► **Emmanuel Mongodin, PhD**, Assistant Professor of Microbiology & Immunology; **Eoghan Smyth**, Postdoctoral Fellow; and **Lauren Hittle**, Research Specialist, all from the Institute for Genome Sciences, were among the co-authors on “Mentholation Affects the Cigarette Microbiota by Selecting for Bacteria Resistant to Harsh Environmental Conditions and Selecting Against Potential Bacterial Pathogens” in *Microbiome*, 2017 Feb 15;5(1):22. Dr. Mongodin and **Claire Fraser, PhD**, the Dean’s Endowed Professor, Departments of Medicine, Microbiology & Immunology, and Director of the Institute for Genome Sciences, were among the co-authors on “Plasmid Diversity and Phylogenetic Consistency in the Lyme Disease Agent *Borrelia burgdorferi*” in *BMC Genomics*, 2017 Feb 15;18(1):165.



Emmanuel Mongodin, PhD

► **Daniel Morgan, MD, MS**, Associate Professor, Department of Epidemiology & Public Health, was among the co-authors on “Update on Pediatric Overuse” in *Pediatrics*, 2017 Feb;139(2).

► **Michael Morris, MD**, Third-year Resident; **Babak Saboury, MD**, Third-year Resident; **Christopher Toland**, Senior Systems Administrator; **Chris Meenan**, Assistant Professor and Associate Vice Chair, Clinical Informatics; **Eliot Siegel, MD**, Professor;



Daniel Morgan, MD, MS

**Publications** *continued*



Eliot Siegel, MD

and **Jean Jeudy, MD**, Associate Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, co-authored “Computer-Aided Reporting of Chest Radiographs: Efficient and Effective Screening in the Value-Based Imaging Era” in *Journal of Digital Imaging*, 2017 Feb 2 [Epub ahead of print].

► **Kathleen Neuzil, MD, MPH, FIDSA**, Professor of Medicine and Director, Center for Vaccine Development, Institute for Global Health, was among the co-authors on “Cystic Fibrosis

Pulmonary Exacerbations Attributable to Respiratory Syncytial Virus and Influenza Virus: A Population-Based Cohort Study” in *Clinical Infectious Diseases*, 2017 Mar 9 [Epub ahead of print]. Dr. Neuzil was also among the co-authors on “Contribution of Serology Assays in the Evaluation of Influenza Virus Infection Rates and Vaccine Efficacy in Pregnant Women: Report From Randomized Controlled Trials” in *Clinical Infectious Diseases*, 2017, Mar 21 [Epub ahead of print].

► **Elizabeth Nichols, MD**, Assistant Professor; **Randi Cohen, MD**, Assistant Professor; **Wendla Citron, MD**, Assistant Professor; **Steven Feigenberg, MD**, Professor; and **William Regine, MD, FACR, FACRO**, Professor and Chair, all from the Department of Radiation Oncology; **Susan Kesmodel, MD**, Assistant Professor; **Emily Bellavance, MD**, Assistant Professor; and **Cynthia Drogula, MD**, Assistant Professor, all from the Department of Surgery; **Katherine Tkaczuk, MD**, Professor, Department of Medicine; and **Paul Staats, MD**, Associate Professor, Department of Pathology, were among the co-authors on “Preoperative Accelerated Partial Breast Irradiation for Early-Stage Breast Cancer: Preliminary Results of a Prospective, Phase 2



Kathleen Neuzil, MD, MPH, FIDSA



William Regine, MD, FACR, FACRO

Trial” in *International Journal of Radiation Oncology, Biology, Physics*, 2017 Mar 15;97(4):747–753.



Rebecca Nowak, PhD

► **Rebecca Nowak, PhD**, Assistant Professor (first author), and **Søren Bentzen, PhD, DMSc**, Professor, both from the Department of Epidemiology & Public Health; **Jacques Ravel, PhD**, Professor, and **Bing Ma, PhD**, Research Associate, both from the Department of Microbiology & Immunology; and **Man Charurat, PhD, MHS**, Associate Professor, Department of Medicine, were among co-authors on “Rectal Microbiota Among HIV-Uninfected, Untreated HIV, and Treated HIV-Infected Men Who Have Sex With Men (MSM) in Nigeria” in *AIDS*, 2017 Jan 21 [Epub ahead of print].

► **Michael Phipps, MD, MHS**, Assistant Professor, Department of Neurology, along with **Prasann Vachhani, MD**, First-year Resident, and **Prashant Raghavan, MD**, Associate Professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, were co-authors on “Recurrent Extracranial Internal Carotid Artery Vasospasm Associated with Recreational Marijuana Use” in *Clinical Imaging*, 2016 Dec 29;43:6-8.



David Rasko, PhD

► **David Rasko, PhD**, Professor of Microbiology and Immunology, Institute for Genome Sciences, and **O. Colin Stine, PhD**, Professor, Department of Epidemiology & Public Health, were among the co-authors on “Chaperone-Usher Pili Loci of Colonization Factor-Negative Human Enterotoxigenic *Escherichia coli*” in *Frontiers in Cellular and Infection Microbiology*,

2017 Jan 6;6:200.

► **Howard Richard, MD**, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among



Michael Phipps, MD, MHS



Howard Richard, MD

## Publications *continued*

the co-authors on “Time and Resources of Peripherally Inserted Central Catheter Insertion Procedures: A Comparison Between Blind Insertion/Chest X-ray and a Real Time Tip Navigation and Confirmation System” in *ClinicoEconomics and Outcomes Research*, 2017 Feb 7;9:115-125.

► **Kelly Robinson**, a PhD Candidate from the Molecular Medicine Program working in the **Dunning Hotopp Lab**; **Jonathan Crabtree**, Lead Bioinformatics Software Engineer; **John Mattick**, Bioinformatics Analyst; and **Julie Dunning Hotopp, PhD**, Associate Professor, Department of Microbiology & Immunology, all from the Institute for Genome Sciences, together with Katie Anderson, an undergraduate summer intern from Cornell, were among the co-authors on “Distinguishing Potential Bacteria-Tumor Associations from Contamination in a Secondary Data Analysis of Public Cancer Genome Sequence Data” in *Microbiome*, 2017 Jan 25;5(1):9.



Julie Dunning Hotopp, PhD

► **Mary-Claire Roghmann, MD**, Professor, Department of Epidemiology & Public Health; **Emmanuel Mongodin, PhD**, Assistant Professor of Microbiology & Immunology, Institute for Genome Sciences; **Patricia Langenberg, PhD**, Professor Emeritus, Department of Epidemiology & Public Health; and **Jennifer Johnson, PhD**, Associate Professor, Department of Pathology, were among the co-authors on “Microbiological Effect of Mupirocin and Chlorhexidine for *Staphylococcus aureus* Decolonization in Community and Nursing Home Based Adults” in *Diagnostic Microbiology and Infectious Disease*, 2017 Feb 13. pii: S0732-8893(17)30048-2 [Epub ahead of print].



Mary-Claire Roghmann,  
MD, MS

► **Steven Rothenberg, MD**, and **Selwan Abdullah, MD**, both Second-year Residents, and **Jeffrey Hirsch, MD**, Assistant Professor, all from the Department of Diagnostic Radiology & Nuclear Medicine, were co-authors on “3D



Jeffrey Hirsch, MD

Printing Prototypes for Healthcare Professionals: Creating a Reciprocating Syringe” in *Journal of Digital Imaging*, 2017 Jan 30 [Epub ahead of print].

► **David Serre, PhD**, Associate Professor, Department of Microbiology & Immunology, was among the co-authors on “Extensive Epigenetic Changes Accompany Terminal Differentiation of Mouse Hepatocytes After Birth” in *G3 - Genes Genomes Genetics Journal (Bethesda)*, 2016 Sep 21 [Epub ahead of print].

► **Terez Shea-Donohue, PhD**, Professor, Department of Radiation Oncology, was among the co-authors on “Parasites, Nutrition, Immune Responses, and Biology of Metabolic Tissues” in *Parasite Immunology*, 2017 Feb 24 [Epub ahead of print].

► **Karsten Sieber**, Graduate Student in Molecular Medicine/Genome Biology, **Dunning Hotopp Lab**; **Robin Bromley**, Lab Research Specialist; and **Julie Dunning Hotopp, PhD**, Associate Professor of Microbiology and Immunology, all from the Institute for Genome Sciences, were co-authors on “Lateral Gene Transfer Between Prokaryotes and Eukaryotes” in *Experimental Cell Research*, 2017 Feb 9. pii: S0014-4827(17)30054-X [Epub ahead of print].



Terez Shea-Donohue,  
PhD



Charles Simone, II, MD

► **Charles Simone, II, MD**, Associate Professor, Department of Radiation Oncology, was the author on “Barriers to Nausea Management, End-of-Life Conversations, Early Palliative Care Interventions, and Patient Education” in *Annals of Palliative Medicine*, 2017 Jan;6:E1-E4. He was also among the co-authors on “Influence of Fractionation Scheme and Tumor Location on Toxicities After Stereotactic Body Radiation Therapy for Large ( $\geq 5$  Cm) Non-Small Cell Lung Cancer: A Multi-Institutional Analysis” in *International Journal of Radiation Oncology, Biology, Physics*, 2017 Mar;97:778-785, and on “Pemetrexed-Induced Radiation Recall Dermatitis in a Patient with Lung Adenocarcinoma: Case Report and Literature Review” in *Journal of Thoracic Disease*, 2016 Dec;8:E1589-E1593. With **Jill Remick, MD**, Resident, Department of Radiation Oncology, Dr. Simone was also among the co-authors on “First Clinical Report of Proton Beam Therapy for Postoperative Radiotherapy for Non-



## Publications *continued*

Small-Cell Lung Cancer” in *Clinical Lung Cancer*, 2017 Jan 5 [Epub ahead of print]. He was also among the co-authors on “Society for Palliative Radiation Oncology: Report From the Third Annual Meeting (2016)” in *Annals of Palliative Medicine*, 2017 Jan;6:94–95.

► **Shiyu Tang**, Research Assistant, and **Xin Lu**, MS, Imaging Research Specialist, along with **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 “Neuroprotective Effects of Acetyl-L-Carnitine on Neonatal Hypoxia Ischemia-Induced Brain Injury in Rats” in *Developmental Neuroscience*, 2017 Feb 23;38(5):384-396. Dr. Gullapalli, along with **Dheeraj Gandhi**, MBBS, Professor, also from the Department of Diagnostic Radiology & Nuclear Medicine, were among the co-authors on “Development of a Meso-Scale SMA-Based Torsion Actuator for Image-Guided Procedures” in *IEEE Trans Robot*, 2017 Feb;33(1):240-248. Dr. Gandhi was also among the co-authors on “Emergency Department Triage of Traumatic Head Injury Using Brain Electrical Activity Biomarkers: A Multisite Prospective Observational Validation Trial” in *Academic Emergency Medicine*, 2017 Feb 8 [Epub ahead of print].



Rao Gullapalli, PhD, MBA



Sharon Tennant, PhD

► **Milagritos Tapia**, MD, Associate Professor of Pediatrics; **Samba Sow**, MD, MS, Adjunct Professor of Medicine; **Raphael Simon**, PhD, Assistant Professor of Medicine; **Sharon Tennant**, PhD, Assistant Professor of Medicine; 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 Center for Vaccine Development and the Institute for Global Health, were among the co-authors on “Modeling the Potential for Vaccination to Diminish the Burden of Invasive Nontyphoidal Salmonella Disease in Young Children in Mali, West Africa” in *PLoS Neglected Tropical Diseases*, 2017 Feb 9;11(2):e0005283

[eCollection 2017]. Drs. Tapia, Sow and Levine were also among the co-authors on “Cost-Effectiveness of Maternal Influenza Immunization in Bamako, Mali: A Decision Analysis” in *PLoS One*, 2017 Feb 7;12(2):e0171499 [eCollection 2017].



Stephen Thom, MD, PhD

► **Stephen Thom**, MD, PhD, Professor, and **Ming Yang**, MD, Research Associate, both from the Department of Emergency Medicine, with colleagues from the Centre for Heart, Lung, and Vascular Health, School of Health and Exercise Science, University of British Columbia, co-authored “Oscillatory Shear Stress, Flow-Mediated Dilatation, and Circulating Microparticles at Sea Level and High Altitude” in *Atherosclerosis*, 2017 Jan;256:115-122.

► **Katherine Tkaczuk**, MD, FACP, Professor, Department of Medicine; **Susan Kesmodel**, MD, Assistant Professor, Department of Surgery; and **Steven Feigenberg**, MD, Professor, Department of Radiation Oncology, were the co-authors of *Handbook of Breast Cancer and Related Breast Disease*, published by Demos Medical Publishing in December, 2016.



Katherine Tkaczuk, MD, FACP



J. Kathleen Tracy, PhD

► **J. Kathleen Tracy**, PhD, Associate Professor, Department of Epidemiology & Public Health, was among the co-authors on “Managing Cancer and Employment: Decisions and Strategies Used by Breast Cancer Survivors Employed in Low-Wage Jobs” in *Journal of Psychosocial Oncology*, 2017 Mar-Apr;35(2):180-201.

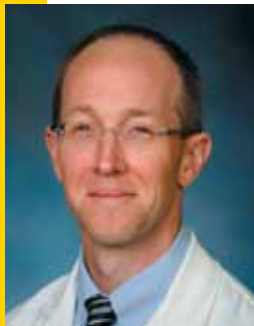
► **Su Xu**, PhD, Associate Professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the co-authors on “Non-invasive



Su Xu, PhD

## Publications *continued*

Assessment of Muscle Injury in Healthy and Dystrophic Animals with Electrical Impedance Myography” in *Muscle Nerve*, 2017 Jan 5 [Epub ahead of print].

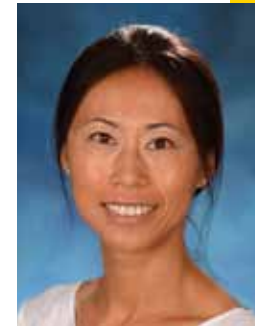


Michael Winters, MD

► **Michael Winters, MD**, Associate Professor, Department of Emergency Medicine, and three other members of the Clinical Practice Committee of the American Academy of Emergency Medicine, published a clinical practice paper in *The Journal of Emergency Medicine*, 2017 Mar;52[3]:379-384. Its title asked “Does Early Goal-Directed Therapy Decrease Mortality Compared with Standard Care in Patients with Septic Shock?” Based on a review of critical care articles published between 2010 and 2015, the authors concluded

that early goal-directed therapy does not convey a benefit in terms of mortality rate compared with standard care. Critical components in the management of septic shock remain early recognition, prompt administration of the right antibiotic, source control, aggressive fluid resuscitation, and use of vasoactive medications when indicated to maintain adequate mean arterial pressure.

► **Jen Yu, PhD**, Assistant Professor, Department of Radiation Oncology, and **Søren Bentzen, PhD, DMSc**, Professor, Department of Epidemiology & Public Health, were among the co-authors on “Joint Estimation of Cardiac Toxicity and Recurrence Risks After Comprehensive Nodal Photon versus Proton Therapy for Breast Cancer” in *International Journal of Radiation Oncology, Biology, Physics*, 2017 Mar 15;97(4):754-761.



Jen Yu, PhD

## New Faculty

*We welcome our new faculty!*

► **Erin O’Connor, MD**, joined the Department of Diagnostic Radiology & Nuclear Medicine as an Assistant Professor early this year. Dr. O’Connor received her medical degree from SUNY Health Sciences Center at Syracuse, College of Medicine, completed an internship at the University of Chicago, Department of Internal Medicine, a residency in the Department of Radiology, University of Chicago and a fellowship in Neuroradiology at Northwestern University Medical Center. Prior to joining the department, Dr. O’Connor served on the faculty at the Lewis Katz School of Medicine at Temple University as an Associate Professor of Neuroradiology. Dr. O’Connor is the “Principal Investigator of Brain Structure and Functional Connectivity in HIV Infection,” a Bridge Program Award from the Office of the Vice President for Research Administration (OVPR) at Temple University. At the UMSOM she is establishing the Laboratory of Translational Neuroradiology (LANTERN) to explore the utility of using structural and functional neuroimaging biomarkers to predict disease course and response to therapy

in a range of conditions. Specific projects will include: 1) MRI predictors of cognitive decline in treated HIV infection, 2) multimodal neuroimaging biomarkers predicting stroke risk in chronic renal disease, and 3) participation in the multi-site European clinical RESSTORE trial aimed at determining neuroimaging biomarkers predicting response to mesenchymal stem-cell treatment of ischemic stroke. All of these projects will combine the use of advanced multimodal neuroimaging techniques in a personalized medicine framework, ultimately allowing individualized prediction of subsequent clinical course or response to therapy.



Join us this quarter for our Smart Eating Nutrition theme.

All employees are encouraged to participate in Launch Your Life activities  
Register today for an upcoming event, including:

April 26-vitamins and supplements: May 2 Shake the Salt Habit Food Demo

For more information: 410-706-2616

HRWell@umaryland.edu • <https://www.umaryland.edu/launch-your-life>

# Events, Lectures & Workshops

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



Curt Civin, MD

▶ **Curt Civin, MD**, Professor, Departments of Pediatrics and Physiology, Director of the Center for Stem Cell Biology and Regenerative Medicine, and Associate Dean for Research; **Tami Kingsbury, PhD**, Assistant Professor of Physiology, Center for Stem Cell Biology & Regenerative Medicine; and **Nancy Hardy, MD**, Associate Professor of Medicine, University of Maryland Greenebaum Comprehensive Cancer Center, spoke at and led a CASSS Scientific Society symposium organized by NIST, IBBR and MedImmune entitled “Release Criteria for Hematopoietic Stem Cell Therapies” on February 9 in Rockville, MD.

▶ **Vasken Dilsizian, MD**, Professor, Department of Diagnostic Radiology & Nuclear Medicine, presented “Transition From SPECT to PET Myocardial Perfusion Imaging” and “New Approaches of Imaging Myocardial Infection/Inflammation” as a Visiting Professor at the INOVA Fairfax Heart and Vascular Institute, held in Falls Church, VA, February 13–14.



Vasken Dilsizian, MD

▶ **Alan Faden, MD**, the David S. Brown Professor in Trauma and Director of the Shock, Trauma & Anesthesiology Research (Star) Center, delivered a combined Neurology/Neurosurgery Grand Rounds entitled “Neuroinflammation and Neurodegeneration After Brain or Spinal Cord Injury: New Therapeutic Targets” at Massachusetts General Hospital on March 2.



Alan Faden, MD

▶ **Anthony Harris, MD, MPH**, Professor, Department of Epidemiology & Public Health, participated in a panel discussion on “Infection Prevention Best Practices—Lessons Learned and Gaps” at the fifth Public Meeting of



Anthony Harris, MD, MPH

the Presidential Advisory Council on Combating Antibiotic-Resistant Bacteria (PACCARB), held on January 25 in Washington, DC. The meeting was dedicated to presentations from non-federal stakeholders surrounding the topic area of infection prevention and control.



Ronna Hertzano, MD, PhD

▶ **Ronna Hertzano, MD, PhD**, Associate Professor, Department of Otorhinolaryngology Head and Neck Surgery, was an invited speaker at the Presidential Symposium “Big Data from Tiny Samples; Using Comprehensive Molecular Profiling to Understand Development” of the 40th MidWinter meeting of the Association for Research in Otolaryngology, February 12–15. Dr. Hertzano presented “A Cell Type-Specific Approach Towards Understanding Hair Cell Development and Survival.” Dr. Hertzano was also the invited speaker for the “inspirational talk” for

the travel award recipients at the meeting. Three additional talks were presented by **Sunayana Mitra, PhD**, Postdoctoral Fellow (“The Impact of Sex on the Response to Noise and Otoprotective Therapies Against Acoustic Injury in Mice”); **Yang Song, PhD**, Postdoctoral Fellow (“RiboTag-Seq: A Comparative Analysis of Library Prep Approaches for Sequencing Low Input Translatome Samples”); and **Joshua Orvis**, Bioinformatics Software Engineer, and **Dustin Olley** from the Institute for Genome Sciences (“The gEAR portal—Sharing and Displaying Gene Expression Now Simplified and Diversified”), which was followed by an on-site demo for the membership.

▶ **Amal Mattu, MD**, Professor, Department of Emergency Medicine, presented the keynote address “Everyday Leadership: Secrets of Great Minds Through the Ages” to the Emergency Medicine Section of the Royal Society of Medicine in London on January 27, during the section’s 30th anniversary celebration.

▶ **Charles Simone, II, MD**, Associate Professor, Department of Radiation Oncology, was among the co-authors on “Prospective Trial of Circulating Tumor Cells as a Bio-



Amal Mattu, MD

## Events, Lectures & Workshops *continued*



Charles Simone, II, MD

marker for Early Detection of Recurrence in Patients with Locally Advanced Non-Small Cell Lung Cancer Treated with Chemoradiation,” which he presented at the opening plenary session at the 2017 Multidisciplinary Thoracic Cancers Symposium in San Francisco, CA, and which was featured in a press release from the University of Maryland School of Medicine. **Pranshu Mohindra, MD**, Assistant Professor, Department of Radiation Oncology, served as an abstract reviewer for the meeting.



Jerimy Polf, PhD

► The American Association of Physicists in Medicine and the National Cancer Institute premiered a short film at the March 13–17 meeting of the American Physics Society in New Orleans, LA, featuring the Maryland Proton Treatment Center. The film highlights the role of physicists in proton science and included interviews with **Jerimy Polf, PhD**, Associate Professor, Department of Radiation Oncology. The film is available at <https://www.dropbox.com/sh/sk5s9jlll9dj56y/AADkQoLzRY9y612NzjDh9tiRa?dl=0>.

## 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.*

- **Anatomy & Neurobiology:** Leslie Fitzpatrick  
lfitzpatrick@som.umaryland.edu
- **Anesthesiology:** Candace Robertson  
crobertson@anes.umm.edu
- **Biochemistry & Molecular Biology:** Koula Cozmo  
kicozmo@som.umaryland.edu
- **Dermatology:** Betsy Satosky  
fsatosky@som.umaryland.edu
- **Diagnostic Radiology & Nuclear Medicine:**  
Brigitte Pocta—bpocta@umm.edu
- **Emergency Medicine:** Linda Kesselring  
lkesselring@em.umm.edu
- **Epidemiology & Preventive Medicine:** Yimei Wu  
ywu@epi.umaryland.edu
- **Family & Community Medicine:** Cathy Malecki  
CathyMalecki@som.umaryland.edu
- **Medical & Research Technology:** Cynthia Stambach  
cstambach@som.umaryland.edu
- **Medicine:** Molly Lutz  
mlutz@medicine.umaryland.edu
- **Microbiology & Immunology:** Angelique Kane  
AKane@som.umaryland.edu
- **Neurology:** Penelope Birckhead  
pbirckhead@som.umaryland.edu
- **Neurosurgery:** Mari Jo Pohlner  
mpohlner@smail.umaryland.edu
- **OB, GYN & Reproductive Sciences:** Robin Kissinger  
rkissinger@fpi.umaryland.edu

- **Ophthalmology:** Amy Kopec  
akopec@fpi.umaryland.edu
- **Orthopaedics:** Dori Kelly—dkelly@umoa.umm.edu
- **Otorhinolaryngology:** Zubair Ahmed  
zahmed@smail.umaryland.edu
- **Pathology:** Rob Christenson  
rchristenson@umm.edu
- **Pediatrics:** Denise Hansen  
dhansen@peds.umaryland.edu
- **Pharmacology:** TBD
- **Physical Therapy & Rehabilitation Science:**  
Andrew Horn—ahorn@som.umaryland.edu
- **Physiology:** Ken Fahnestock  
kfahnestock@som.umaryland.edu
- **Psychiatry:** Lisa Cleary  
lcleary@som.umaryland.edu
- **Radiation Oncology:** Jill Rosenberg  
jrosenberg@umm.edu
- **Surgery:** Michele Mehrling  
MMehrling@som.umaryland.edu
- **Program in Comparative Medicine:** Deborah Sanchez—dsanchez@vetmed.umaryland.edu
- **Program in Genetics & Genomic Medicine:**  
Ruth (Rhea) Cosentino  
rcosenti@medicine.umaryland.edu
- **Program in Health Disparities and Population Health:** Kate Tracy—ktracy@som.umaryland.edu

- **Program in Neuroscience:** Tom McHugh  
tmchugh@som.umaryland.edu
- **Program in Oncology:** Robert Mitchell  
rmitchell1@umm.edu
- **Program in Trauma:** Betsy Burcham  
bburcham@umm.edu
- **Center for Biomedical Engineering and Technology:**  
Pamela Wright—pbwright@umaryland.edu
- **Center for Integrative Medicine:** Rebekah Owens  
rowens@som.umaryland.edu
- **Center for Research on Aging:** TBD
- **Center for Shock, Trauma and Anesthesiology Research (STAR-ORC):** Gabriela Felton  
gfelton@anes.umm.edu
- **Center for Stem Cell Biology & Regenerative Medicine:** Evets Morgan  
EMorgan@som.umaryland.edu
- **Center for Vaccine Development:** Leslie Jamka  
ljamka@som.umaryland.edu
- **Center for Vascular & Inflammatory Diseases:**  
Yan Sun—YanSun@som.umaryland.edu
- **Institute for Genome Sciences:** Riham Keryakos  
RKeryakos@som.umaryland.edu
- **Institute for Global Health:** Katherine Frankel  
kfrankel@medicine.umaryland.edu
- **Institute of Human Virology:** Nora Grannell  
NGrannell@ihv.umaryland.edu
- **MD/PhD Program:** Jane Bacon  
JBacon@som.umaryland.edu

- **MPH Program:** Kara Longo  
klongo@epi.umaryland.edu
- **Office of Development:** Becky Herman  
rherman@som.umaryland.edu
- **Office of Faculty Affairs & Professional Development:** Robertha Simpson  
RSimpson@som.umaryland.edu
- **Office of Information Services:** Sharon Bowser  
SBowser@som.umaryland.edu
- **Office of Research Career Development:** Stacie Small Mendoza—SSmall@som.umaryland.edu
- **Office of Student Affairs:** Sara Menso  
SMenso@som.umaryland.edu
- **Office of Student Research:** Jean Marie Roth  
JRoth@som.umaryland.edu

### 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](http://medschool.umaryland.edu/Public_Affairs/buzz.asp)