What's the buzz?

A self-reported addition to SOMnews *for the School of Medicine community to share their successes.*

University of Maryland School of Medicine SOMnews July 2010 Vol.11 No.11

Honors & Awards

Congratulations to the following who have received honors!

Amber Beitelshees, PharmD, MPH

► **Amber Beitelshees, PharmD, MPH**, assistant professor, Department of Medicine, was inducted into Delta Omega, the Honorary Society in Public Health, by the Beta Upsilon Chapter of the University of Florida College of Public Health and Health Professions. She was chosen as one of only 10 graduates of the school whose work in the practice of public health will serve as a model for future graduates.

► **Claire Fraser-Liggett, PhD**, professor, Departments of Medicine and Microbiology & Immunology, and director, Institute for Genome Sciences, received the Leadership in Bioscience Award from the Greater Baltimore Committee at its 5th Annual Maryland Bioscience Awards in March 2010. The award ceremony recognizes outstanding achievements in Maryland's bioscience industry.

► **Wendy Sanders, MA**, assistant dean for Research Career Development, was named one of the 2010 Maryland's Top 100 Women by *The Daily Record*. Awardees are chosen based on three factors: leadership, mentoring and community service. A recognition ceremony and celebration was held in Baltimore in May 2010.

► **Doug Savin**, a PhD student in the Department of Physical Therapy & Rehabilitation Science, received the Geriatrics and Gerontology Award at UMB's Graduate Research Conference 2010 for his poster and presentation entitled "The Adaptability of Interlimb Coordination during Walking in Individuals with Post-stroke Hemiparesis and Non-disabled Adults."

► **Edward Weinman, MD**, professor, Department of Medicine, is the 2010 recipient of the William S. Middleton Award. Dr. Weinman and his research associates isolated and cloned a protein called the Sodium-Hydrogen Exchanger Regulatory Factor or NHERF. NHERF-1, the first member of this family, regulates the assembly of other proteins and is important in the movement of minerals and electrolytes across cells, and the function and signaling of a number of hormones. Mutations in the NHERF-1 gene have been identified in patients with kidney stones and in estrogen-receptor-positive breast cancer and may also be involved in psoriasis, schizophrenia and some forms of deafness. The Middleton Award is the highest honor awarded annually by the Biomedical Laboratory Research and Development Service to Veterans Affairs (VA) biomedical research scientists in recognition of their outstanding scientific contributions and achievements in the areas of biomedical and bio-behavioral research relevant to the healthcare of veterans. The award was established in 1960 to honor Dr. Middleton, an educator and physician-scientist who served as the VA's chief medical director from 1955 to 1963. Recipients receive a cash award of $5,000 and an inscribed plaque as well as $50,000 per year for three years in additional research support. The award was presented to Dr. Weinman by the Department of Veterans Affairs' Undersecretary for Health Dr. Robert A. Petzel at a ceremony in Washington, DC, in April 2010.

Edward Weinman, MD

Editor's Note:

Due to the very high volume of *Buzz* submissions, we found the need to run a special July issue of *What's the Buzz?* Because our faculty, staff and students are so energetic and dedicated and are doing such great work, we wanted to share their news with our readers as soon as possible. Enjoy the summer! *SOMnews* will resume in September.

Appointments

We applaud our colleagues on their recent appointments!

► **James Borin, MD**, assistant professor, Department of Surgery, was named to the editorial boards of the *Journal of Endourology Part B: Videourology* and the *Internet Journal of Urology*. Additionally, Dr. Borin was recognized by the American Urological Association Foundation for organizing prostate cancer screening events throughout Baltimore.

Kevin Ferentz, MD

► **Kevin Ferentz, MD**, associate professor, Department of Family & Community Medicine, has been appointed co-chair of the Tobacco Use Prevention & Cessation and Cancer Committee, which is part of the Maryland Comprehensive Cancer Control Plan of the Maryland Department of Health & Mental Hygiene.

William Stanley, PhD

► **William Stanley, PhD**, professor, Department of Medicine, has been appointed editor of the *American Journal of Physiology: Heart and Circulatory Physiology (AJP)* for the term January 2011 through December 2016. The *AJP* publishes original investigations on the physiology of the heart, blood vessels and lymphatics, including experimental and theoretical studies of cardiovascular function at all levels of organization ranging from the intact animal to the cellular, sub-cellular and molecular levels. The *American Journal of Physiology* has been published since 1898 and is one of the largest cardiovascular research journals in the world.

► **Barney Stern, MD**, professor, Department of Neurology, has been appointed to the American Academy of Neurology's A.B. Baker Section Chair Elect for 2010 to 2012.

► **Li Zhang, PhD**, associate professor, Department of Physiology and Center for Vascular and Inflammatory Diseases, was appointed to the editorial advisory board for Bentham Science Publishers' *Current Drug Targets*.

In the News

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

► **Michael Miller, MD**, professor, Department of Medicine, was one of five physicians featured in the "Health & Style" Section of the April 1, 2010, edition of the *Baltimore Sun*. The article, entitled "Tips to Take to Heart," asked local cardiologists for their most important tips regarding overlooked symptoms, diet, exercise and lifestyle. Dr. Miller stressed the importance of daily exercise and a restful night's sleep as a regimen for a healthy heart.

Michael Miller, MD

Jacques Ravel, PhD

► **Jacques Ravel, PhD**, associate professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was featured in the following news outlets during March 2010: *Wired Science Magazine*, *The Boston Globe* and Channel 9 WUSA in Washington, DC, about using bacterial communities on human skin in forensic analyses.

► **Anindo Roy, PhD**, assistant professor, Department of Neurology, was featured in a two-part Anklebot story on Baltimore's WBFF Fox45 in February 2010.

Lisa Shulman, MD

► **Lisa Shulman, MD**, professor, Department of Neurology, was quoted in a March 31, 2010, article in *The New York Times* about the amazing phenomena of Parkinson's patients who are unable to walk because of their disease but are able to ride a bicycle with perfect coordination.

Publications

Hats off to those who have been published!

► **Robert Anderson, MD**, chief resident, Departments of Emergency Medicine and Medicine, and **Michael Witting, MD, MS**, associate professor, Department of Emergency Medicine, took the "pro" position in the clinical controversies section of *Annals of Emergency Medicine* with their article entitled "Nasogastric Aspiration in Gastrointestinal Hemorrhage," which was published in the journal's April 2010 issue.

► **Amber Beitelshees, PharmD, MPH**, assistant professor, Department of Medicine, co-published "Interaction between the UCP2 -866 G>A polymorphism, Diabetes and Beta-blocker Use among Patients with Acute Coronary Syndromes" in *Pharmacogenetics and Genomics*, April 2010;20(4):231-8.

Brian Berman, MD

► **Brian Berman, MD**, professor, Department of Family & Community Medicine, and director, Center for Integrative Medicine, along with **Elizabeth Kimbrough, PhD**, assistant professor, and **Lixing Lao, PhD, LAc**, professor, both from the Department of Family & Community Medicine and Center for Integrative Medicine, co-authored "An Integrative Medicine Intervention in a Ford Motor Company Assembly Plant" in the *Journal of Occupational Environmental Medicine*, 2010 Mar;52(3):256-7. Additionally, Drs. Berman and Lao co-authored "Acupuncture for Peripheral Joint Osteoarthritis" in Cochrane Database System Review, 2010 Jan 20;(1):CD001977. In addition, Dr. Berman, along with **Eric Manheimer, MS**, research associate, Center for Integrative Medicine, facilitated a special collection of reviews for *The Cochrane Library* about the efficacy of acupuncture to treat various health conditions. The Cochrane Collaboration produces *The Cochrane Library*. The Cochrane Collaboration, an international, non-profit organization catalogues the latest evidence-based healthcare assessments to help providers, practitioners and patients make informed decisions about health care. For more information, visit www.thecochranelibrary.com.

Thomas Pallone, MD

► **Chunhua Cao, MD, PhD**, assistant professor, and **Thomas Pallone, MD**, professor, both from the Department of Medicine, co-published "Chronic Ouabain Treatment Induces Vasa Recta Endothelial Dysfunction in the Rat" in *American Journal of Physiology, Renal Physiology*; January 2010; 296:F98-F106.

► **France Carrier, PhD**, associate professor, Department of Radiation Oncology, co-authored "Functional Significance for a Heterogenous Ribonucleoprotein A18 (hnRNP A18) Signature RNA Motif in the 3'UTR of Ataxia Telangiectasia Mutated and Rad3 Related (ATR) Transcript" in the *Journal of Biological Chemistry*, March 19: 285 (12), 8887-8893, 2010.

France Carrier, PhD

Toby Chai, MD

► **Toby Chai, MD**, John D. Young, Jr. Professor of Surgery, and **Harry Johnson, Jr., MD**, associate professor, Department of Obstetrics, Gynecology & Reproductive Sciences, co-authored "Retropubic Versus Transobturator Midurethral Slings for Stress Incontinence" in the *New England Journal of Medicine* (epub May 18, 2010). Funded by the National Institute of Diabetes and Digestive and Kidney Diseases, this was the largest randomized trial studying outcomes of minimally-invasive slings. The two procedures were statistically equivalent in objective outcomes.

Harry Johnson, Jr., MD

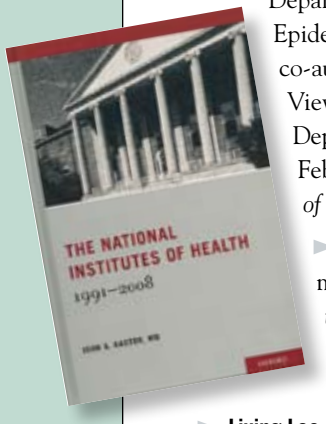
► **Wilbur Chen, MD**, assistant professor, Department of Medicine and Center for Vaccine Development, co-authored "Herpes Zoster Vaccine for the Elderly: Boosting Immunity" in *Aging Health* 2010; 6: 169-176. He also co-authored "A High Dosage Influenza Vaccine Induced Significantly More Neuraminidase Antibody than Standard Vaccine among Elderly Subjects" in *Vaccine* 2010; 28: 2076-2079 and "Detoxified Endotoxin Vaccine (J5dLPS/OMP) Protects Mice Against Lethal Respiratory Challenge with *Francisella tularensis* SchuS4" in *Vaccine* 2010; 28: 2908-15.

► **Jean Claude D'Alleyrand, MD**, trauma fellow, and **Andrew Pollak, MD**, associate professor, Department of Orthopaedics, co-authored "Extrapolation of Battlefield Resuscitative Care to the Civilian Setting" in the spring issue of the *Journal of Surgical Orthopaedic Advances* 2010;19(1):62-90.

► **Claire Fraser-Liggett, PhD**, professor, Departments of Medicine and Microbiology & Immunology, and director, Institute for Genome Sciences, and **Emmanuel Mongodin, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, co-authored "Bacterial Diversity in the Oral Cavity of 10 Healthy Individuals" in the *International Society of Microbial Ecology Journal*, March 2010.

► **Anne Hamburger, PhD**, professor, Department of Pathology and Program in Oncology, co-authored "ErbB3 Binding Protein 1(EBP1) is a Potent Repressor of the Metastasis-associated Gene AGR2 in Prostate Cancer" in *Cancer Research* 70:240-248, 2010.

► **Jon Mark Hirshon, MD, MPH**, associate professor, Departments of Emergency Medicine and Epidemiology & Preventive Medicine, co-authored "Planning for a Pandemic: A View from the Accident and Emergency Department," which was published in the February 2010 issue of the *British Journal of Hospital Medicine*.



► **John Kastor, MD**, professor, Department of Medicine, authored *The National Institutes of Health* 1981–2008, which was published by Oxford University Press.

► **Lixing Lao, PhD**, professor, Department of Family & Community Medicine, and director of Traditional Chinese Medicine Research, Center for Integrative Medicine, co-published an NIH-funded study, "Cinnamon Bark and Gingseng in Herbal Formula Increases Life Span of Roundworms" in the May *PLos One* (on-line journal) 2010;5(2):9339.

Emmanuel Mongodin, PhD

Jon Mark Hirshon, MD, MPH

Lixing Lao, PhD

► **James E. McNamee, PhD**, associate professor, Department of Physiology, and associate dean of Information Services and CIO, co-authored "Chapter 5: Federated Authentication" in *Biomedical Informatics for Cancer Research*, published by Springer.

► **Robert V. O'Toole, MD**, assistant professor, **Jason W. Nascone, MD**, assistant professor, and **Marcus F. Sciadini, MD**, assistant professor, all from the Department of Orthopaedics, co-authored a peer-reviewed article entitled "Modified Stoppa Approach for Acetabular Fractures with Anterior and Posterior Column Displacement: Quantification of Radiographic Reduction and Analysis of Interobserver Variability" in the May 2010 issue of the *Journal of Orthopaedic Trauma*, 2010;24(5):271-278 and "Evaluation of Computed Tomography for Determining the Diagnosis of Acetabular Fractures" in the May 2010 issue of the *Journal of Orthopaedic Trauma*, 2010;24(5):284-290. In addition, Drs. O'Toole, Nascone and Sciadini, along with **Theodore Manson, MD**, assistant professor, **Augusta Whitney, MD**, resident, and **Andrew Pollak, MD**, associate professor, all from the Department of Orthopaedics, co-authored "Pelvic Ring Fractures Are an Independent Risk Factor for Death after Blunt Trauma" in the April 2010 issue of the *Journal of Trauma*, 2010;68(4):930-934.

► **Kevin Pereira, MD, MS**, professor, Department of Otorhinolaryngology-Head and Neck Surgery, co-authored "Microbiology of Third and Fourth Branchial Pouch Cysts" in *Laryngoscope*, 2010 Mar;120(3):458-62.

► **Jacques Ravel, PhD**, associate professor, and **Pawel Gajer, PhD**, research associate, both from the Department of Microbiology & Immunology and Institute for Genome Sciences, and **Rebecca Brotman, PhD**, assistant professor, Department of Epidemiology & Preventive Medicine and Institute for Genome Sciences, co-authored "Comparison of Self-collected and Physician-collected Vaginal Swabs for Microbiome Analysis" in the *Journal of Clinical Microbiology*, March 2010. Dr. Ravel also co-authored "Bacterial Diversity in a Glacier Foreland of the High Arctic" in *Molecular Ecology*, March 2010.

PUBLICATIONS *continued*

Stephen Reich, MD

Horea Rus, MD

Terez Shea-Donohue, PhD

► **Stephen Reich, MD**, professor, Department of Neurology, was guest editor of a *Movement Disorders* supplement, Volume 25, Issue 3, 2010.

► **Joseph Roche, PT, PhD**, post-doctoral fellow, Department of Physiology, published "Extensive Mononuclear Infiltration and Myogenesis Characterize Recovery of Dysferlin-null Skeletal Muscle from Contraction-induced Injuries" in the *American Journal of Physiology—Cell Physiology*, 298: C298–C312, 2010.

► **Horea Rus, MD**, associate professor, and **Kenneth P. Johnson, MD**, professor emeritus, both from the Department of Neurology, co-published "Continuous Long-term Immunomodulatory Therapy in Relapsing-remitting Multiple Sclerosis: Results from 15-year Analysis of Prospective Open-label Study of Glatiramer Acetate" in *Multiple Sclerosis* 2010: 16,342-350.

► **Terez Shea-Donohue, PhD**, professor, and **Aiping Zhao, MD**, assistant professor, both from the Department of Medicine, co-authored "Membrane-anchored Serine Protease Matriptase Regulates Epithelial Barrier Formation and Permeability in the Intestine" in the *Proceedings of the National Academy of Sciences, USA*, 2010, March 2;107(9):4200-5. The two, along with **Luigi Notari, PhD**, research associate, also co-authored "Immune Regulation of Epithelial Cell Function: Implications for GI Pathologies" in *The International Diary Journal*. In addition, Dr. Shea-Donohue co-authored "CD206-Positive M2 Macrophages That Express Heme Oxygenase-1 Protect against Diabetic Gastroparesis in Mice" in *Gastroenterology*, 2010 Feb 20.

Aiping Zhao, MD

Achsah Keegan, PhD

► **Kari Ann Shirey, PhD**, post-doctoral fellow in the laboratory of **Stefanie Vogel, PhD**, professor, Department of Microbiology & Immunology, published "Control of RSV-Induced Lung Injury by Alternatively Activated Macrophages is IL-4Ralpha-, TLR4-, and IFN-Beta-dependent" in *Nature Mucosal Immunology*, March 10, 2010 [epub before print]. Co-authors included **Adam Puche, PhD**, associate professor, Department of Anatomy & Neurobiology, and **Achsah Keegan, PhD**, professor, Department of Microbiology & Immunology.

► **Lisa Shulman, MD**, professor, Department of Neurology, published "Understanding Disability in Parkinson's Disease" in the *Movement Disorders Journal* 2010;25(1):S131-S135.

► **Marcella Wozniak, MD, PhD**, associate professor, **Steven Kittner, MD**, professor, **John Cole, MD**, associate professor, **Barney Stern, MD**, professor, and **Mark Dobbins**, clinical research analyst, all from the Department of Neurology, co-authored "Frequency of Unrecognized Fabry Disease among Young European-American and African-American Men with First Ischemic Stroke" in *Stroke*, 2010;41:78-81.

► **Li Zhang, PhD**, associate professor, Department of Physiology and Center for Vascular and Inflammatory Diseases, co-published "A Point Mutation in Kindlin-3 Ablates Activation of Three Integrin Subfamilies in Humans" in *Nature Medicine*, 2009, volume 15, 313-8.

Li Zhang, PhD

Events, Lectures & Workshops

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

► **Johannes Bonatti, MD**, professor, Department of Surgery, and **David Zimrin, MD**, assistant professor, Department of Medicine, in collaboration with **Bartley Griffith, MD**, professor, Department of Surgery, and Dr. Guy Friedrich from the Innsbruck (Austria) Medical University, organized the 5th Integrated Cardiovascular Repair Workshop in Baltimore in March 2010. More than 200 people from 15 countries attended the conference, where a distinguished international faculty of interventional cardiologists, cardiac surgeons, electrophysiologists and heart center administrators explored innovative, collaborative approaches for the treatment of coronary, structural and electrical heart disease.

L–R: Johannes Bonatti, MD, and David Zimrin, MD, at the 5th Integrated Cardiovascular Repair Workshop they organized.

► The **MD/PhD Program** hosted the Annual Stephen R. Max, PhD Memorial Lectureship in April 2010. The speaker was Peter J. Pronovost, MD, PhD, FCCM, professor, Department of Anesthesiology and Critical Care Medicine, and associate professor, Department of Surgery, Johns Hopkins School of Medicine, and professor, Department of Health Policy and Management, Johns Hopkins Bloomberg School of Public Health. His topic was "Safe Patients, Smart Hospitals—How One Doctor's Checklist Can Help Us Change Health Care from the Inside Out." Dr. Pronovost was featured in *TIME* Magazine's "The 2008 TIME 100," a list of the world's most influential people for that year. The Max lecture is named for Dr. Stephen Max, the founding director of the MD/PhD Program, and was established in his honor to invite outstanding physician scientists to the School of Medicine.

► Several members of the **Department of Neurology** presented at the annual meeting of the American Academy of Neurology in Toronto, Canada, in April 2010. **William Weiner, MD**, professor and chair, presented "Hyperkinetic Movement Disorders;" **Stephen Reich, MD**, professor, presented "Movement Disorders," was the director of "Clinical Pearls in Bedside Neurology" and presented "Clinical Pearls: Movement Disorders;" **Steven Kittner, MD**, professor, presented "Random Error, Confunding, Effect Modification;" **Lisa Shulman, MD**, professor, was the director of "Parkinson's Disease and Movement Disorders Update" and presented "Movement Disorders;" and **Bryan Soronson, MPA, CRA**, administrator, was the director of and presented "Practice Management."

Michael Bond, MD

► **Michael Bond, MD**, assistant professor, **Benjamin Lawner, DO, EMT-P**, clinical instructor, **Robert Rogers, MD**, assistant professor, and **Michael Winters, MD**, assistant professor, all from the Department of Emergency Medicine, were invited speakers at the Mid-Atlantic Emergency Medicine Student Symposium in Baltimore in April 2010. The event was sponsored by the Emergency Medicine Residents Association. Dr. Bond presented "Navigating Your 4th Year: The Application Process from ERAS to Match Day;" Dr. Lawner presented "Why Emergency Medicine: Dispelling the Myths;" and Dr. Rogers presented "Your Future's So Bright: How to Shine During Your Rotations." Dr. Winters was a panelist for a discussion about residency interviews.

Wilbur Chen, MD

► **Wilbur Chen, MD**, assistant professor, Department of Medicine and Center for Vaccine Development, presented "Overview of U.S. Pandemic H1N1 Vaccine Development" at the Taiwan Centers for Disease Control and "Hypersusceptibility to Lethal Bacterial Pneumonia Post-influenza Recovery" at the XII International Symposium on Respiratory Virus Infections in Taipei, Taiwan, in March 2010.

► **John Cole, MD**, associate professor, Department of Neurology, was an invited speaker at the Society of Interventional Radiology's 35th Annual Scientific Meeting in Tampa, Florida, in March 2010. Two of

John Cole, MD

Dr. Cole's presentations were part of the "IR Management of Stroke" workshops and he presented two talks during a symposium entitled "Acute Ischemic Stroke—Imaging, Intervention and the Continuum of Care."

Raymond Cross, MD, MS

► **Raymond Cross, MD, MS**, assistant professor, and **Jean-Pierre Raufman, MD**, professor, both from the Department of Medicine, co-directed a one-day continuing medical education symposium entitled "Controversies in Inflammatory Bowel Disease" in Baltimore in April 2010.

Jean-Pierre Raufman, MD

Gary Fiskum, PhD

► **Gary Fiskum, PhD**, professor and vice chair for Research, Department of Anesthesiology, presented a plenary lecture at the Brazilian Biochemical Society in Foz do Iguaçu, Brazil. His topic was "Mitochondrial Mechanisms of Cell Death and Neuroprotection." Additionally, Dr. Fiskum presented "Traumatic Brain Injury In Rats Caused By Blast-Induced Hyperacceleration" at the 26th Southern Biomedical Engineering Conference in College Park, Maryland, in May 2010.

► **Claire Fraser-Liggett, PhD**, professor, Departments of Medicine and Microbiology & Immunology, and director, Institute for Genome Sciences, was invited to present "The Human Gut Microbiome and Obesity in the Old Order Amish" at the 2010 MetaHit-International Conference on Human Metagenomics in Shenzhen, China, in March 2010. Also invited to speak were **Jacques Ravel, PhD**, associate professor, Department of Microbiology & Immunology and Institute for Genome Sciences, who presented "The Temporal Dynamics of the Human Vaginal Microbiota" and **Jennifer**

W. Florian Fricke, PhD

Derek Haseltine, MEd

Russo Wortman, MS, assistant professor, Department of Medicine, and associate director of Bioinformatics, Institute for Genome Sciences, who presented "A Data Analysis and Coordination Center for the Human Microbiome Project."

► **W. Florian Fricke, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, presented a lecture entitled "Virtual Machines and Cloud Computing for Automated and Portable Sequence Analysis" at the National Human Genome Research Institute Cloud Computing Meeting in Bethesda, Maryland, in April 2010.

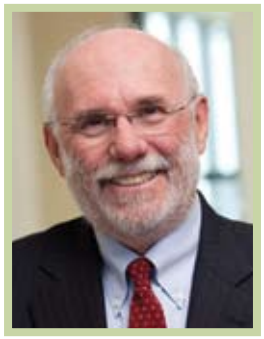
► **Derek Haseltine, MEd**, program director, Office for Research Career Development, gave a presentation entitled "Building Opportunities and Crafting your CV" at the National Cancer Institute's 10th Annual Center for Cancer Research Fellows & Young Investigators Colloquium in Hershey, Pennsylvania, in March 2010.

Julie Dunning Hotopp, PhD

► **Julie Dunning Hotopp, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, presented "Gene Transfer from Bacteria to Eukaryotes" at the European Cooperation in Science and Technology Workshop on Arthropod Symbiont Genomics and Metagenomics in Madeira, Portugal, in January 2010.

► **Benjamin Lawner, DO, EMT-P**, clinical instructor, Department of Emergency Medicine, was an invited speaker at the 2010 Miltenberger Trauma & EMS Conference, held at Rocky Gap Lodge in Cumberland, Maryland, in March 2010. He presented "High-Sugar/High-Stakes Diabetic Emergencies."

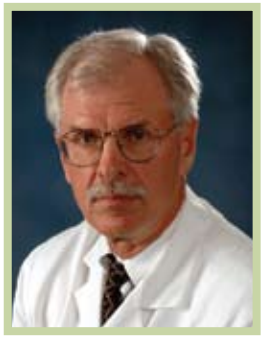
Events, Lectures & Workshops *continued*



Myron Levine, MD, DTPH

► **Myron Levine, MD, DTPH**, professor, Department of Medicine, and director, Center for Vaccine Development, and **Christopher Plowe, MD**, professor, Department of Medicine, and chief, Malaria Section, Center for Vaccine Development, attended the Malaria Eradication Research Agenda (malERA) Zenith Week in Arlington, Virginia, in March 2010. Funded by the Bill and Melinda Gates Foundation, the malERA project has worked for two years to define a research agenda for global malaria eradication. Both Drs. Levine and Plowe served on the malERA steering committee, and Dr. Levine chaired an international advisory committee of renowned scientists who have led campaigns to eradicate smallpox and other diseases. Dr. Plowe chaired the malERA group on drugs and presented recommendations to a leadership council that included the directors of the National Institute of Allergy and Infectious Diseases, the World Health Organization, the Roll Back Malaria Partnership, the Wellcome Trust and the global health program at the Gates Foundation.

► **Philip Mackowiak, MD, MPH, MACP**, professor and vice chair, Department of Medicine, presented the Herbert Y. and Anne L. Reynolds Lecture at Penn State College of Medicine in April 2010. His topic was "Beethoven and the Sound That Failed."



Philip Mackowiak, MD, MPH, MACP

► **Michael Makley, MD**, assistant professor, Department of Neurology, presented two posters at the World Congress on Brain Injury in Washington, DC, in March 2010. They were entitled "Aspiratin Pneumonia Associated with the Use of Dantrolene Sodium in Low Level Responsive Patients with Traumatic Brain Injury" and "Tactile Defensive Behavior on a Rehabilitation Unit Following Moderate to Severe Brain Injury." Dr. Makley also gave a platform presentation entitled "Sleep Efficiency and Resolution of Post Traumatic Amnesia after Closed Head Injury."

Amal Mattu, MD

► **Amal Mattu, MD**, associate professor, Department of Emergency Medicine, conducted a workshop on advanced ECG interpretation at Resuscitation 2010, a conference on the care of critically ill and injured patients, held in Las Vegas, Nevada, in March 2010. Additionally, Dr. Mattu presented "Acute Coronary Syndromes (ACS) 2010," "Pitfalls in Caring for the Dying Medical Patient," and "Advanced Cardiac Life Support (ACLS) 2010." The ACS and ACLS lectures were updates on cutting-edge management of patients with these conditions.

► **Sarah Netzel-Arnett, PhD**, assistant professor, Department of Physiology and Center for Vascular and Inflammatory Diseases, presented "Targeting PAI-2 Prosurvival Pathways for Enhanced Stem Cell Based Therapy" in the "Hot Topics" session of the Plasminogen Activation & Extracellular Proteolysis Gordon Conference in Ventura, California, in February 2010.

► **Kathleen Oktavec, MS-III**, presented her research entitled "Clinical Outcomes in Patients with Cytomegalovirus Retinitis Treated with Ganciclovir Implant" at the Association for Research in Vision and Ophthalmology Annual Meeting in Ft. Lauderdale, Florida, in May 2010. This summer, Ms. Oktavec plans to complete her Master of Health Science in clinical epidemiology at the Johns Hopkins Bloomberg School of Public Health and will submit her thesis to *The American Journal of Ophthalmology*. She'll then return to the School of Medicine to complete her fourth year of medical school.

Feyruz Rassool, PhD

► **Feyruz Rassool, PhD**, associate professor, Department of Diagnostic Radiology & Nuclear Medicine and the Program in Oncology, was an invited speaker for the December 2009 Translational Research Seminar Series at Johns Hopkins University, where she presented "ROS, DNA Damage and Alternative NHEJ Repair: Pathways for Genomic Instability in Myeloid Malignancies." In

addition, Dr. Rassool presented "Increased ROS in FLT3/ITD 'knock-in' Mice" at the December 2009 Free Radical Interest Group and "Can Abnormal DNA Repair in Myeloid Malignancies Be a Therapeutic Target?" at the January 2010 Toxicology Seminar Series, both at the University of Maryland.

Kevin Pereira, MD, MS

► **Kevin Pereira, MD, MS**, professor, Department of Otorhinolaryngology-Head and Neck Surgery, served as guest faculty at the 4th Annual Pediatric Airway Endoscopy Course, held at the Children's Hospital of Philadelphia in February 2010.

► **Lynn Schriml, PhD**, assistant professor, Department of Epidemiology & Preventive Medicine and Institute for Genome Sciences, was invited to speak on "Checks and Balances of Quality Control Measures and Data Standards in Genome Databases and Metadata for Equitable Collaboration Strategies" at the Chemical, Biological, Radiological & Nuclear Defense Information Analysis Center Forum entitled "Bioforensics Resources and Repositories" in Aberdeen, Maryland, in March 2010.

Lynn Schriml, PhD

► **Alan Shuldiner, MD**, John L. Whitehurst Professor, Department of Medicine, presented "Pharmacogenetics of Clopidogrel Resistance" at the Institute of Medicine's "Community Update, Improving the Science of Drug Safety" meeting in Washington, DC, in April 2010, and "Genetics of the Metabolic Syndrome: Insights into the Mechanisms of Disease" at the Tongji Medical University's 1st International Symposium in Endocrinology and Metabolism in Shanghai, China.

► **Lisa Shulman, MD**, professor, Department of Neurology, chaired the 3rd International Congress on Gait & Mental Function held in Washington, DC, in February 2010. This event attracted over 500 attendees from 38 different countries.

► **Christopher Stephens, MD**, assistant professor, and **Robert Sikorski, MD**, assistant professor, both from the Department of Anesthesiology, served as faculty members for a two-day airway management course (including lectures and anatomy lab) for paramedics attending the EMS Today Conference in Baltimore in March 2010. Additionally, **Benjamin Lawner, DO, EMT-P**, clinical instructor, Department of Emergency Medicine, served as a judge for the Seventh Annual JEMS Games, a competition held during the conference, in which paramedic teams showcased their advanced life support skills in responding to a simulated mass casualty incident.

Scott Strome, MD

► **Scott Strome, MD**, professor and chair, and **David Eisenman, MD**, associate professor and vice chair, both from the Department of Otorhinolaryngology-Head and Neck Surgery, were invited lecturers at the Annual Meeting of the Israeli Society of Otolaryngology-Head & Neck Surgery in Eilat, Israel. Dr. Strome presented "Targeted Monoclonal Antibody Therapy for Head & Neck Squamous Cell Carcinoma: Current Challenges and Future Directions," while Dr. Eisenman spoke on "Pulsatile Tinnitus: Evaluation and Management."

David Eisenman, MD

► **Jennifer Russo Wortman, MS**, assistant professor, Department of Medicine, and associate director of Bioinformatics, Institute for Genome Sciences, presented "*Aspergillus* Genome Database: Comparative Genomics and Visualization Tools" at the 10th European Conference on Fungal Genetics in The Netherlands, Holland, in March, 2010.

Jennifer Russo Wortman, MS

Grants & Contracts

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

Ashraf Badros, MD

► **Ashraf Badros, MD**, associate professor, Department of Medicine and Program in Oncology, received a two-year $349,000 Dental and Craniofacial R21 grant from the National Institutes of Health for his work entitled "Role of Salivary Bisphosphonates in Osteonecrosis of the Jaw in Myeloma Patients."

Rebecca Brotman, PhD

► **Rebecca Brotman, PhD**, assistant professor, Department of Epidemiology & Preventive Medicine and Institute for Genome Sciences, received a five-year $644,175 KO1 National Institute of Health Mentored Research Scientist Development Award from the National Institute of Allergy and Infectious Diseases for "Molecular Epidemiology of the Vaginal Microbiome."

► **Larry Forrester, PhD**, associate professor, Department of Physical Therapy & Rehabilitation Science, received a one-year $70,000 2010 UMB-UMCP Seed Grant for "Non-Invasive Neural Decoding of Walking from EEG Signals."

► **Amy Fulton, PhD**, professor, Department of Pathology and Program in Oncology, received a three-year $180,000 Susan G. Komen Foundation Award for "Prostaglandin E EP1 Receptor in Breast Cancer Metastasis." Although Dr. Fulton is officially the PI on this award, **Jocelyn Reader, PhD**, a post-doctoral fellow in her lab, will be the actual recipient.

Abdolreza Haririan, MD, MPH

► **Michelle Gwinn Giglio, PhD**, assistant professor, Department of Medicine and Institute for Genome Sciences, is a co-investigator on a project that will develop an ontology of microbial phenotypes for use in bacterial annotation. Dr. Giglio received a three-year $192,000 award for her portion of the work from the National Institute of General Medical Sciences.

► **Abdolreza Haririan, MD, MPH**, assistant professor, Department of Medicine, received a three-year $909,086 clinical research grant from Wyeth Pharmaceuticals for an investigator-initiated study entitled "Delayed Tacrolimus to Sirolumus Conversion in Renal Transplant Recipients with Delayed Graft Function."

► **Julie Dunning Hotopp, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, received a one-year $100,000 Grand Challenges in Global Health grant from the Bill & Melinda Gates Foundation for her work entitled "Targeting Bacterial Genes Found on Filarial Chromosomes for the Treatment of Lymphatic Filariasis."

► **Mandeep Mehra, MBBS**, professor, and **William Stanley, PhD**, professor, Department of Medicine, received a two-year $1.3 million award from the National Heart, Lung and Blood Institute for "Docosahexaenoic Acid for Treatment of Heart Failure."

Andrea Meredith, PhD

► **Andrea Meredith, PhD**, assistant professor, Department of Physiology, received a two-year $180,000 National Science Foundation grant to support "Circadian Pattering of Neuronal Activity and Behavior."

► **Joseph Roche, PhD**, post-doctoral fellow, Department of Physiology, received a one-year $77,919 Jain Foundation, Inc. fellowship grant to support "The Role of Immune Dysfunction in the Development and Progression of Dysferlinopathies."

Jakub Simon, MD, MS

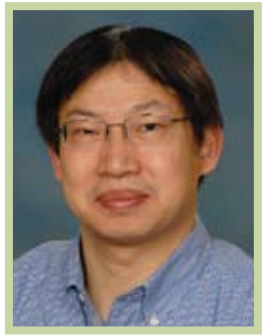
► **Jakub Simon, MD, MS**, assistant professor, Department of Pediatrics and Center for Vaccine Development (CVD), received a one-year $162,422 contract for "A Clinical Study to Assess the Safety, Tolerability and Immunogenicity of Licensed Seasonal Trivalent Influenza Vaccine Administered by Needle-free Jet Injection in One Intramuscular Dose to Healthy Young Adults." This is a clinical study sponsored by the University of Maryland and funded by D'Antonio Consultants International. In addition, Dr. Simon was awarded a one-year $40,000 UMB Cooperative Center for Translational Research on Human Immunology and Biodefense Pilot Project grant, funded through the National Institutes of Health, for his work entitled "The Role of sIgA BM Cells in Mucosal Mechanisms of Protection in *Shigella* Challenge Studies." This proposal is to assess IgA BM cells in cryopreserved specimens from challenge studies previously performed at the CVD after ingestion of live oral *Escherichia coli-Shigella flexneri* 2a vaccine EcSf2a-2 or wildtype *Shigella flexneri* 2a strain 2457T.

Grants & Contracts *continued*

► **Hervé Tettelin, PhD**, associate professor, Department of Microbiology & Immunology and Institute for Genome Sciences, is the principal investigator on a two-year $1,504,050 project entitled "Comparative Genomic Analyses of *Streptococcus pneumonia*: Emergence of Multidrug Resistant and Vaccine Replacement Serotypes."

Alan Tomkinson, PhD

► **Alan Tomkinson, PhD**, professor, Department of Radiation Oncology, received a $99,992 equipment supplement under the American Recovery and Reinvestment Act of 2009 (ARRA) to his R01 National Institute of Health grant entitled "Cellular Functions of Eukaryotic DNA Ligases." In addition, Dr. Tomkinson received a two-year $235,815 ARRA sub-award on a project entitled "Nitrosamine Chemistry and Biochemistry."



Lai-Xi Wang, PhD

► **Lai-Xi Wang, PhD**, professor, Institute of Human Virology and Department of Biochemistry & Molecular Biology, received a one-year $37,500 pilot grant from the University of Maryland Marlene and Stewart Greenebaum Cancer Center for his work entitled "Construction of Tumor-Associated Glycopeptide Antigen Library for Immunological Studies and Vaccine Development." The goal of this research is to characterize the antigenic structures of the tumor-associated mucin MUC1 by constructing a library of synthetic MUC1 glycopeptide antigens corresponding to the tandem repeats—consisting of 20 amino acids with five potential O-glycosylation sites.

► **Owen White, PhD**, professor, Department of Epidemiology & Preventive Medicine and Institute for Genome Sciences (IGS), and his co-investigators at IGS, **Jacques Ravel, PhD**, associate professor, Department of Microbiology & Immunology, **Anup Mahurkar**, director of Software Engineering & IT, and **Samuel Angiuoli**, bioinformatics software manager, received a three-year $1.8 million ARRA grant for "MRI-R2: Acquisition of Data Intensive Academic Grid (DIAG)." The DIAG project will serve as a resource for investigators and will include a computational infrastructure, a high-performance storage network and optimized data sets generated by mining the data from public data repositories.

► **W. Gil Wier, PhD**, professor, Department of Physiology, received a four-year $1,491,000 National Heart, Lung and Blood Institute grant for his research entitled "Physiological Regulation of MLCK in Intact Arteries." This study utilizes novel *in vivo* imaging of transgenic mice to study mechanisms of hypertension.

Buzz Contacts

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 above) that you would like to see in the *Buzz* to the appropriate person within your department, program, center or office.

Anatomy & Neurobiology: Carolyn Craighead
Anesthesiology: Betsy Burcham
Biochemistry & Molecular Biology: Bruce Reinecke
Dermatology: Betsy Satosky
Diagnostic Radiology & Nuclear Medicine: Nan Knight
Emergency Medicine: Linda Kesselring
Epidemiology & Preventive Medicine: Yimei Wu
Family & Community Medicine: NO DESIGNEE
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Medicine: Molly Lutz
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Physical Therapy & Rehabilitation Science: Caelie Haines
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Program in Genetics & Genomic Medicine: Pam Shinnick
Program in Minority Health & Health Disparities: Claudia Baquet
Program in Neuroscience: Tom McHugh
Program in Oncology: Stephen Long
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Center for Integrative Medicine: Harry Bosk
Center for Mucosal Biology Research or MBRC: Pam King
Center for Research on Aging: Kara Longo
Center for Stem Cell Biology & Regenerative Medicine LaRondi Flowers
Center for Trauma and Anesthesiology Research: Jane Anderson
Center for Vaccine Development: Gloria Smedley
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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