

# what's the buzz?

Self-Reported News from the School of Medicine Community

## EVENTS, LECTURES

## & WORKSHOPS



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

► **Maureen Black, PhD**, professor, Department of Pediatrics, was invited to present “Promoting Healthy Habits and Preventing Pediatric Obesity Through Family and Community Interventions” at the American Psychological Association Annual Convention in Orlando, FL, on August 2. The next day she presented “Policies and Models of Care for Children” at the same conference.

► **May Blanchard, MD**, associate professor, Department of Obstetrics, Gynecology & Reproductive Sciences presented “Uterine Leiomyoma” on August 10 and “Abnormal Uterine Bleeding...What Does the Evidence Show?” on August 12, both at the South Carolina Obstetrical and Gynecological Society Annual Meeting in Asheville, NC.

► **Anthony Gaspari, MD**, the Albert Shapiro, MD, Professor of Dermatology, Department of Dermatology, was invited as a guest lecturer by the Chilean Dermatologic Society to provide lectures at their annual congress in Santiago, Chile, from August 14–16. He provided a total of four lectures to a group of over 200 dermatologists, on subjects ranging from immunology, allergy, nephrogenic fibrosing dermopathy, and interesting patient-case presentations. “Even though it was winter time in Santiago, my wife and I had a wonderful experience,” said Dr. Gaspari. “Their hospitality was outstanding, the scientific program was strong, and the food, wine and dancing made this a memorable experience.”

► **Julie Dunning Hotopp, PhD**, assistant professor, Department of Microbiology & Immunology and the Institute for Genome

Sciences, presented “Lateral Gene Transfer from a *Wolbachia* Endosymbiont to *Drosophila ananassae*: A Tale of Extensive Duplication and Epigenomic Variation,” at the 7th International Wolbachia Conference in Oleron Island, France, in June. She also presented “Genomic Analysis of the Lateral Gene Transfer from a *Wolbachia* Endosymbiont to *Drosophila ananassae* through DNA Re-sequencing and Its Implications for Invertebrate Genomics” at the 6th Annual Arthropod Genomics Symposium in Kansas City, MO in May 2.

► **Philip Mackowiak, MD, MBA**, professor & vice-chair, Department of Medicine, gave Medical Grand Rounds at the Baylor College of Medicine in Houston, TX in June. His topic was “Mozart’s Fatal Anasarca.”

► **Leonid Medved, PhD**, professor, Department of Biochemistry & Molecular Biology and Center for Vascular and Inflammatory Disease, presented “Fibrinogen  $\alpha$ C-domain Structure and Polymerization” at the XXII<sup>nd</sup> International Fibrinogen Workshop in Brighton, U.K on July 6.

► **Emmanuel Mongodin, PhD**, assistant professor, Department of Microbiology & Immunology and the Institute for Genome Sciences, presented “Oral Microbiota and Emerging Disease Associations” at the 11th Biennial Congress of The Anaerobe Society of the Americas (ASA), which was held in San Francisco, CA, June 27 to July 1.

► **Vincent Njar, PhD**, professor, Department of Pharmacology and Center for Biomolecular Therapeutics (CBT), was an invited speaker at the 10th International Symposium on Pharmaceutical Sciences (ISOPS-10), held in Ankara, Turkey, from June 26–29. The title of his talk was “Discovery & Development of a Multi-Mechanistic Agent VN/124-1 (TOK-001 or Galeterone) for Prostate Cancer Therapy.”



Anthony Gaspari, MD



Julie Dunning Hotopp, PhD



Emmanuel Mongodin, PhD

## EVENTS, LECTURES & WORKSHOPS *continued*

► **Maria Nurminskaya, PhD**, associate professor, Department of Biochemistry & Molecular Biology, presented at the Cold Spring Harbor Asia conference called “Bone and Cartilage: From Development to Human Disease” in Suzhou, China in June. Her topic was “Tissue Transglutaminase is a New Regulator of Osteoclast and Osteoblast Differentiation in Bone Marrow.”



Mark Rogers, PhD, PT

- **Mark Rogers, PhD, PT**, professor, Department of Physical Therapy and Rehabilitation Science, presented “Enhancing Balance to Prevent Falls” at the Program in Aging Seminar “Return to Independence: Updates in Rehabilitation of the Older Adult,” held September 12 here on campus.
- **Wendy Sanders, MA**, assistant dean, Research Career Development, gave a series of workshops on Research Skills for the annual AAMC Minority Faculty Development Conference in Chicago on September 8.
- **H. Ronald Zielke, PhD**, professor, Department of Pediatrics, organized a workshop on “Contributions of Post-Mortem Tissue to the Study of Developmental Disorders” at NIH. This

workshop honored the 20th anniversary of the founding of the Brain and Tissue Bank at the University of Maryland School of Medicine. Twenty nationally recognized researchers participated. The three half-day sessions focused on Human Development, Autism Spectrum Disorders, and Genetic Diseases. Dr. Zielke’s presentations were entitled: “Overview of the National Institute of Child Health and Human Development (NICHD) Brain and Tissue Bank and This Workshop” and “Challenges for a Brain and Tissue Bank.” The workshops were held at the NIH Neuroscience Building in Rockville, MD, on July 16 and 17.

## IN THE NEWS



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

► **Joel Graham, PhD**, postdoctoral fellow, and **Frank Robb, PhD**, professor, both from the Department of Microbiology & Immunology, were featured in Rebecca Cheung’s article “Heat Beaters” in the August 11 edition of *Science News*.

## HONORS

## & AWARDS



*Congratulations to the following who have received honors!*

► **Stephanie Deasey**, a graduate student in the Department of Biochemistry & Molecular Biology who is working in the lab of **Maria Nurminskaya, PhD**, associate professor, won a travel award to attend the European Calcified Tissue Society meeting in Sweden in May. There she presented “Transglutaminase-Mediated Cross-Linking is Critical for Bone Regeneration in Zebrafish.”



Mangla Gulati, MD, FACP, FHM

► **Mangla Gulati, MD, FACP, FHM**, assistant professor, Department of Medicine, was awarded the Theodore E. Woodward Faculty Prize in Medicine for exemplary teaching and patient care at this summer’s State of the Department of Medicine ceremony.

► **Alicia Lucksted, PhD**, associate professor, Department of Psychiatry, received the 2012 Armin Loeb Award from the U.S. Psychiatric Rehabilitation Association (USPRA). This national award is presented to the individual who has conducted the best-designed and most useful research in the field of psychiatric rehabilitation in the preceding year.



Alicia Lucksted, PhD

► **Michael Miller, MD**, professor, Departments of Medicine and Epidemiology & Public Health, was selected by the United States Postal Service to assist in the development of the Heart Health Stamp, which was issued in Spring 2012.



Lisa Shulman, MD

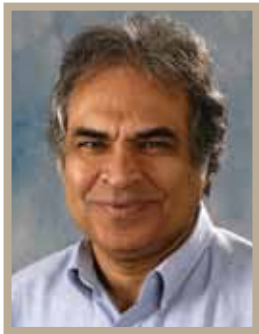
► **Lisa Shulman, MD**, the Eugenia Brin Professor in Parkinson’s Disease & Movement Disorders, Department of Neurology, was the recipient of this year’s Parkinson’s Action Network Researcher Advocacy Prize, worth \$50,000. The award was presented on October 3 at the annual Morris K. Udall Dinner in Washington, DC.



## PUBLICATIONS

### Hats off to those who have been published!

► **Graham Aberdeen, PhD**, assistant professor; **Christopher Harman, MD**, professor and interim chair; and **Eugene Albrecht, PhD**, professor, all from the Department of Obstetrics, Gynecology & Reproductive Sciences, were among the co-authors on “Suppression of Trophoblast Uterine Spiral Artery Remodeling by Estrogen During Baboon Pregnancy: Impact on Uterine and Fetal Blood Flow Dynamics” in the *American Journal of Physiology, Heart and Circulatory Physiology*, 2012;302:H1936-H1944.



Abdu Azad, PharmD, PhD, MPH

► **Abdu Azad, PharmD, PhD, MPH**, professor, Department of Microbiology & Immunology, was co-editor on the textbook *Intracellular Pathogens II: Rickettsiales*, which was published by ASM Press in August. The book is a current review of basic research on *Rickettsiales* biology and pathogenesis that aims to be a significant research book for scientists, physicians, medical students, public health professionals, epidemiologists, bio-computational scientists, and government policy makers. Dr. Azad and **Khandra Sears, PhD**, postdoctoral fellow, also from the Department of Microbiology &

Immunology, were among the co-authors on “Surface Proteome Analysis and Characterization of Surface Cell Antigen (Sca) or Auto Transporter Family of *Rickettsia typhi*” in the journal *PLoS Pathogens*, 2012 Aug 9;8(8):e1002856 [Epub ahead of print]. Dr. Azad and **Simran Kaur, PhD**, postdoctoral fellow in the Department of Microbiology & Immunology, were among the co-authors on “TolC-Dependent Secretion of an Ankyrin Repeat-Containing Protein of *Rickettsia typhi*” in the *Journal of Bacteriology*, 2012 Sep;194(18):4920-4932.

► **May Blanchard, MD**, associate professor, Department of Obstetrics, Gynecology & Reproductive Sciences, was among the co-authors on “Impact of the Medical Liability Crisis on Post-residency Training and Practice Decisions in Obstetrics-Gynecology” in the *Journal of Graduate Medical Education*, 2012;4(2):190-5.

► **Charles Chaffin, PhD**, associate professor, Department of Obstetrics, Gynecology & Reproductive Sciences, was a co-author on “Of the Many Secrets of Steroidogenesis” in *Biology of Reproduction*, 2012;86(1):1-2.

► **Marcus Chibucos, PhD**, research associate, Department of Microbiology & Immunology, was a co-author on “Kinetic and Phylogenetic Analysis of Plant Polyamine Uptake Transporters,” in *Planta*, 2012 Oct;236(4):1261-73.

► **Jason Custer, MD**, assistant professor, Department of Pediatrics, was among the co-authors on “Real Time Forecasting of Pediatric Intensive Care Unit Length-of-Stay Using Computerized Provider Orders” in *Critical Care Medicine*, 2012 Jul 20 [Epub ahead of print] and “A Qualitative Study of Expert and Team Cognition on Complex Patients in the Pediatric Intensive Care Unit” in *Pediatric Critical Care Medicine*, 2012 May;13(3):278-84.

► **Michael Donnenberg, MD**, professor, Department of Medicine, was a co-author on “Outer Membrane Targeting, Ultrastructure and Single Molecule Localization of the Enteropathogenic *Escherichia coli* Type IV Pilus Secretin BfpB” in *The Journal of Bacteriology*, 2012 Apr;194(7):1646-58. The article was featured on the cover. He also was a co-author on “Structure of an Essential Type IV Pilus Biogenesis Protein Provides Insights Into Pilus and Type II Secretion Systems” in the *Journal of Molecular Biology*, 2012 May 25;419(1-2):110-24.

► **Alex Drohat, PhD**, associate professor, Department of Biochemistry & Molecular Biology, was among the co-authors on “Lesion Processing by a Repair Enzyme is Severely Curtailed by Residues Needed to Prevent Aberrant Activity on Undamaged DNA” the *Proceedings of the National Academy of Sciences USA*, 2012 May 22;109(21):8091-6. He was also among the co-authors on “Crystal Structure of Methyl-Binding Domain IV Glycosylase Bound to Abasic DNA” in the *Journal of Molecular Biology*, 2012 Jul 13;420(3):164-75, along with **Eric Toth, PhD**, assistant professor, Department of Biochemistry & Molecular Biology.

► **Mark Eppinger, PhD**, research associate, Department of Microbiology & Immunology; **Erin Hine**, bioinformatics analyst; **Qi Su**, bioinformatics analyst; **Luke Tallon**, scientific director, **Jacques Ravel, PhD**, professor, Department of Microbiology & Immunology and associate Director for Genomics at IGS; and **Claire Fraser, PhD**, professor, Departments of Medicine and Microbiology & Immunology and IGS director, all also from the Institute for Genome Sciences



Marcus Chibucos, PhD



Michael Donnenberg, MD

## PUBLICATIONS *continued*

(IGS), were co-authors on “Genomic Diversity of 2010 Haitian Cholera Outbreak Strains” in *Proceedings of the National Academy of Sciences of the United States of America*, 2012 Jul 17;109(29):E2010-7.

► **Martin Flajnik, PhD**, professor, Department of Microbiology & Immunology, was a co-author on “Evolution of the B7 family: Co-evolution of B7H6 and NKp30, Identification of a New B7 Family Member, B7H7, and of B7’s Historical Relationship With the MHC” in *Immunogenetics*, 2012 Aug;64(8):571-90.

► **Simeon Goldblum, MD**, professor, Department of Medicine, co-authored “TRAF6 Protein Couples Toll-like Receptor 4 Signaling to Src Family Kinase Activation and Opening of Paracellular Pathway in Human Lung Microvascular Endothelia” in *The Journal of Biological Chemistry*, 2012 May 11;287(20):16132-45. Dr. Goldblum and **Alan Cross, MD**, professor; **Sergei Atamas, MD, PhD**, associate professor; and **Irina Luzina, MD, PhD**, assistant professor, all also from the Department of Medicine, were among the authors on “NEU1 Sialidase Expressed in Human Airway Epithelia Regulates Epidermal Growth Factor Receptor (EGFR) and MUC1 Protein Signaling” in *The Journal of Biological Chemistry*, 2012;287(11):8214-31, and “NEU1 and NEU3 Sialidase Activity Expressed in Human Lung Microvascular Endothelia” *The Journal of Biological Chemistry*, 2012 May 4;287(19):15966-80.

► **Howard Goldman, MD, PhD**, professor, Department of Psychiatry, was among the co-authors on “Economic Grand Rounds: The Price is Right? Changes in the Quantity of Services Used and Prices Paid in Response to Parity” in *Psychiatric Services*, 2012;63(2):107-09.

► **Mangla Gulati, MD, FACP, FHM**, and **Ada Offurum, MD**, both assistant professors, Department of Medicine, were two of the co-authors on “Evaluating Transitions of Care of Hospitalized Medical Patients to Long-Term Care Facilities: A Retrospective Review of Venous Thromboembolism Prophylaxis” in the *American Journal of Medical Quality*, 2012 Jul-Aug;27(4):329-34.

► **Joseph Herman, MD**, clinical assistant professor, Department of Radiation Oncology; **Naimish Pandya, MD**, clinical assistant professor, Department of Medicine; **Olga Goloubeva, PhD**, associate professor, Department of Epidemiology & Public Health; **Nader Hanna, MB, BCH**, and **Richard Alexander, MD**, both professors

in the Department of Surgery; and **William Regine, MD**, professor and the Isadore & Fannie Schneider Foxman Chair in the Department of Radiation Oncology, were co-authors on “Analysis of Local Control in Patients Receiving IMRT for Resected Pancreatic Cancers” in the *International Journal of Radiation Oncology Biology Physics*, 2012 Jul;83(3):916-920.

► **Julie Dunning Hotopp, PhD**, assistant professor, Department of Microbiology & Immunology; **David Riley**, bioinformatics software engineer; **Sean Daugherty**, senior bioinformatics analyst; and **Hervé Tettelin, PhD**, associate professor, Department of Microbiology & Immunology, all also from the Institute for Genome Sciences, co-authored “Whole Genome Sequencing to Investigate the Emergence of Clonal Complex 23 *Neisseria meningitidis* Serogroup Y Disease in the United States” in *PLoS One*, 2012;7(4):e35699. Hotopp was also among the co-authors on “Efficient Subtraction of Insect rRNA prior to Transcriptome Analysis of *Wolbachia-Drosophila* Lateral Gene Transfer,” in *BMC Research Notes*, 2012 May;5(1):230.

► **Julie Kreyenbuhl, PharmD, PhD**, associate professor, and **Deborah Medoff, PhD**, associate professor, both from the Department of Psychiatry, were among the authors on “Beliefs About Antipsychotic Versus Hypoglycemic Medications Among Individuals with Serious Mental Illness and Type 2 Diabetes” in *Patient Preference and Adherence*, 2012 Jun;6:389-94.

► **Richard Lichenstein, MD**, associate professor, Department of Pediatrics, and **Laurence Magder, PhD**, professor, Epidemiology & Public Health, were among the co-authors on “The Relationship Between Influenza Outbreaks and Acute Ischemic Heart Disease in Maryland Residents Over a Seven-year Period,” in the *Journal of Infectious Disease*, 2012 Sep;206(6):821-827. This was noted to be an Editor’s Choice by the journal.

► **Erik Lillehoj, PhD**, associate professor, Department of Pediatrics, was a co-author on “Antibodies to Retroviruses in Recent-Onset Psychosis and Multi-Episode Schizophrenia” in *Schizophrenia Research*, 2012; Jul;138(203):198-205.

► **Alicia Lucksted, PhD**, associate professor, Department of Psychiatry, was among the co-authors on “Recent Developments in Family Psychoeducation as an Evidence-Based Practice” in the *Journal of Marital and Family Therapy*, 2012;38(1):101-21.

► **Tapas Makar, MD**, associate professor; **Paul Fishman, MD, PhD**, professor; **Christopher Bever, Jr., MD**, professor; and **David Trisler, MD**, associate professor, all



Howard Goldman, MD, PhD



Julie Kreyenbuhl, PharmD, PhD

## PUBLICATIONS *continued*

from the Department of Neurology, were among the co-authors on “Adult Hematopoietic Progenitors Are Multipotent in Chimeric Mice” in *Comptes Rendus Biologies* 2012 Jul;335(7):454-62.

▶ **Emmanuel Mongodin, PhD**, assistant professor, Department of Microbiology & Immunology and the Institute for Genome Sciences, was a co-author on “Comparative Genomics of Vancomycin-Resistant *Staphylococcus aureus* Strains and Their Positions Within the Clade Most Commonly Associated with Methicillin-Resistant *S. aureus* Hospital-Acquired Infection in the United States” in the American Society for Microbiology’s *mBio*, 2012 May 22;3(3):e00112-12.

▶ **Andrew Neuwald, PhD**, professor, Department of Biochemistry & Molecular Biology, was a co-author on “Automated Hierarchical Classification of Protein Domain Subfamilies Based on Functionally-Divergent Residue Signatures,” in *BMC Bioinformatics*, 2012 Jun 22;13(1):144 [Epub ahead of print].

▶ **Vincent Pellegrini, Jr, MD**, the James Lawrence Kernan Professor and Chair, Department of Orthopaedics, was a co-author on “Resident Duty-Hour Restrictions—Who Are We Protecting?” in the *Journal of Bone and Joint Surgery*, 2012 Sep;94-A(17): e131(7) [Epub ahead of print].

▶ **Toni Pollin, PhD**, associate professor, Department of Medicine, was a co-author on the editorial “Direct-to-Consumer Genetic Testing: What Are We Talking About?” in the *Journal of Genetic Counseling*, 2012, Jun;21(3):361-6.

▶ **David Rasko, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was a co-author on “*Shigella flexneri* Effectors OspE1 and OspE2 Mediate Induced Adherence to the Colonic Epithelium Following Bile Salts Exposure” in *Molecular Microbiology*, July 2012;85(1):107-121.

▶ **Jacques Ravel, PhD**, professor, Department of Microbiology & Immunology and associate director for genomics, Institute for Genome Sciences, co-authored “Exploring a Road Map to Counter Misconceptions About the Cervicovaginal Microbiome and Disease” in *Reproductive Sciences*, 2012, May 21 [Epub ahead of print]. Ravel also was a co-author on



Toni Pollin, PhD

“Understanding Vaginal Microbiome Complexity from an Ecological Perspective” in *Translational Research*, 2012 Oct;160(4):267-82.

▶ **E. Albert Reece, MD, PhD, MBA**, professor, Department of Obstetrics, Gynecology & Reproductive Sciences; Vice President for Medical Affairs, University of Maryland; and the John Z. and Akiko K. Bowers Distinguished Professor and Dean, University of Maryland School of Medicine, was an author on “Reduction in Embryonic Malformations and Alleviation of Endoplasmic Reticulum Stress by Nitric Oxide Synthase Inhibition in Diabetic Embryopathy” in *Reproductive Sciences*, 2012;19(8):823-831. Co-authors included **Zhiyong Zhao, PhD**, assistant professor, Department of Obstetrics, Gynecology & Reproductive Sciences, and **Richard Eckert, PhD**, the John F.B. Weaver professor and chair, Department of Biochemistry & Molecular Biology.

▶ **Nirav Shah, MD**, assistant professor, Department of Medicine, co-published “Febrile-Range Hyperthermia Augments Reversible TNF $\alpha$ -induced Hyperpermeability in Human Microvascular Lung Endothelial Cells” in the *International Journal of Hyperthermia*, 2012 Jul 26 [Epub ahead of print]. Co-authors included the Department of Medicine’s **Jeffrey Hasday, MD**, professor; **Simeon Goldblum, MD**, professor; **Ishwar Singh, PhD**, assistant professor; and **Mohan Tulapurkar, ScD**, post-doctoral fellow. Drs. Shah and Hasday, along with **Carl Shanholtz, MD**, associate professor; **Dawn Fox, RN**; **Majid Afshar, MD**, assistant instructor; **Houtan Sareh, MD**, clinical instructor; **Edward Pickering, MD**, assistant professor; and **Marc Cowan, MD**, assistant professor, were among the co-authors on “Non-pharmacologic Approach to Minimizing Shivering During Surface Cooling: A Proof of Principle Study” in the *Journal of Critical Care*, 2012 Jul, [Epub ahead of print].

▶ **Kevin Sheth, MD**, and **Carolyn Cronin, MD**, both assistant professors, Department of Neurology, were among the co-authors on “Intravenous rt-PA is Not Associated with Increased Risk of Hemorrhage in Patients with Intracranial Aneurysms” in *NeuroCritical Care*, 2012 Oct;17(2):199-203. Dr. Sheth was also a co-author on the invited editorial “Silent but Deadly: Small Ischemic Lesions Following Intracerebral Hemorrhage” in *Neurology*, 2012 Aug;79(9):838-839.

▶ **Alan Shuldiner, MD**, the John Whitehurst Professor in the Department of Medicine, associate dean for Personalized Medicine, and director of the Program in Personalized & Genomic Medicine, was a co-author on “A Genome-Wide Approach



Kevin Sheth, MD

## PUBLICATIONS *continued*

Accounting for Body Mass Index Identifies Genetic Variants Influencing Fasting Glycemic Traits and Insulin Resistance” in *Nature Genetics*, 2012, May 13;44(6):659-69; a co-author on “Clopidogrel: A Case for Indication-Specific Pharmacogenetics” in the *Journal of Clinical and Pharmacologic Therapeutics*, 2012 May;91(5):774-6; a co-author on “Genome-Wide Association for Abdominal Subcutaneous and Visceral Adipose Reveals a Novel Locus for Visceral Fat in Women” in *PLoS Genetics*, 2012;8(5):e1002695 [Epub ahead of print]; a co-author on “Impact of Common Variation in Bone-Related Genes on Type 2 Diabetes and Related Traits” in *Diabetes*, 2012 Aug;61(8):2176-86; and a co-author on “The C Allele of ATM rs11212617 Does Not Associate With Metformin Response in the Diabetes Prevention Program” in *Diabetes Care*, 2012 Sep;35(9):1864-1867.

► **Craig Stauffer**, medical student; **Anne Josiah, MD**, former Neurology resident; **Manuel Fortes, MD**, Neuroradiology fellow; **Jay Menaker, MD**, associate professor, Department of Surgery; and **John Cole, MD**, associate professor, Department of Neurology, were among the co-authors on “Lemierre Syndrome Secondary to Community-Acquired Methicillin-Resistant *Staphylococcus Aureus* Infection Associated with Cavernous Sinus Thromboses” in the *Journal of Emergency Medicine*, 2012, Sep 15:S0736-4679.

► **Loren Thompson, PhD**, associate professor, Department of Obstetrics, Gynecology & Reproductive Sciences was among the co-authors on “Chronic Hypoxia Increases Peroxynitrite, MMP9 Expression, and Collagen Accumulation in Fetal Guinea Pig Hearts” in *Pediatric Research*, 2012;71(1):25-31.

► **William Weiner, MD**, professor and chair, Department of Neurology, was a co-author on “Randomized Clinical Trial of Fipamezole for Dyskinesia in Parkinson disease (FJORD Study)” in *Neurology*, 2012 Jul 10;79(2):163-9.

► **Kelly Westlake, PhD**, assistant professor, Department of Physical Therapy & Rehabilitation Science, was a co-author on “Resting State Alpha Band Functional Connectivity and Recovery of Upper Extremity Function After Stroke” in *Experimental Neurology*, 2012 June;237(1):160-9.

► **Owen White, PhD**, professor, Department of Epidemiology & Public Health, and **Brandi Cantarel, PhD**, research associate, both from the Institute for Genome Sciences, were among the

authors of “Metabolic Reconstruction for Metagenomic Data and Its Application to the Human Microbiome,” in *PLoS Computational Biology*, 2012 Jun;Vol. 8(6):e1002358. They were co-authors with other IGS members, including **Jacques Ravel, PhD**, professor, and **Lynn Schriml, PhD**, assistant professor, on “Structure, Function and Diversity of the Healthy Human Microbiome,” in *Nature for the Human Microbiome Project Consortium*, 2012 Jun;Vol. 486(7402):207-214, and “A Framework for Human Microbiome Research” in *Nature for the Human Microbiome Project Consortium*, 2012, Jun;Vol. 486(7402):215-221. Cantarel was also a co-author on “Complex Carbohydrate Utilization by the Healthy Human Microbiome” in *PLoS*, 2012, Jun;Vol.7(6):e28742.

► **Austin Yang, PhD**, associate professor, Department of Anatomy & Neurobiology, and **Zhongping Liao, PhD**, a post-doctoral fellow in Dr. Yang’s lab, were among the co-authors on “IsoQuant: A Software Tool for SILAC-Based Mass Spectrometry Quantitation” in *Analytical Chemistry*, 2012 May 15;84(10):4535-43.



Brandi Cantarel, PhD

## NEW FACULTY



*We welcome our new faculty!*

► **Katrina Daley Mark, MD**, joined the Department of Obstetrics, Gynecology and Reproductive Sciences in the Division of General OB/GYN as an instructor in July 2012. Dr. Mark earned her Doctor of Medicine degree from Temple University School of Medicine in 2008. She completed her residency in obstetrics & gynecology at the University of Maryland Medical Center in June. Dr. Mark’s responsibilities will include teaching medical students and residents during her clinical service. She will also see patients in the 419 West Redwood Street offices.

► **Ava Port, MD**, joined the Department of Medicine as an assistant professor in the Division of Endocrinology, Diabetes & Nutrition in August. She will be seeing patients for general endocrinology, diabetes and obesity. Dr. Port has special interests in obesity, diabetes, pre-diabetes, nutrition, general endocrinology and transgender medicine.



Kelly Westlake, PhD

## GRANTS &

## CONTRACTS



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



Patricia Dischinger,  
PhD

► **Patricia Dischinger, PhD**, professor, Department of Epidemiology & Public Health, was awarded a one-year, \$290,000 grant from the Maryland Department of Transportation, State Highway Administration, for “Comprehensive Crash Outcome Data Evaluation System (CCODES).” She was also awarded a 13-month, \$49,000 supplement from the National Highway Traffic Safety Administration “Crash Outcomes Data Evaluation System (CODES) Data Network.”

► **Alex Drohat, PhD**, associate professor, Department of Biochemistry and Molecular Biology, has been awarded an administrative supplement to his current NIH grant “Structure and Mechanism of CpG-Specific DNA Glycosylases.” The award of \$434,940 over three years will support a new collaboration with Dr. Michael Matunis at Johns Hopkins University.

► **Ronald Gartenhaus MD**, professor, Department of Medicine, received a four-year, \$1,654,700 RO1 Award from the National Cancer Institute for “MAP Kinase Signaling in Lymphoma: A Novel Therapeutic Paradigm.”

► **Richard Goldberg, PhD**, associate professor, Department of Psychiatry, who is also acting director of the VA Capitol Health Care Network (VISN 5) Mental Illness Research, Education and Clinical Center (MIRECC), received a two-year, \$185,753 grant from the VA Rehabilitation Research and Development Service for “A Structured Communication Tool to Improve OEF/OIF Veteran Care.”

► **Da-Wei Gong, MD**, associate professor, Department of Medicine, has received a new, three-year award from the Maryland Technology Development Corporation totaling \$690,000 to support his work “Towards Modeling Pathogenesis and Treatment of Congenital Generalized Lipodystrophy Using Patient-Specific iPSCs.”

► **Wendy Lane, MD, MPH**, assistant professor, Department of Epidemiology & Public Health, has been awarded a \$40,000, one-year grant from The Zanyvl and Isabelle Krieger Foundation for “Child Abuse and Maltreatment Program.”

► **Patricia Langenberg, PhD**, professor; **Istvan Merchenthaler, MD, PhD, ScD**, professor; and **Min Zhan, PhD**, assistant professor, all from the Department of Epidemiology & Public Health, have been awarded a \$2.4 million, 11-month renewal

from the National Institute of Child Health and Human Development for “Maryland’s Organized Research Effort in Women’s Health (MORE-WH).”

► **Leonid Medved, PhD**, professor, Department of Biochemistry & Molecular Biology and the Center for Vascular and Inflammatory Disease, received a one-year \$153,846 grant from the Maryland Industrial Partnerships Program for “Optimization of Novel Hemostatic Agent ClotBlock.”

► **May Montasser, MS, PhD**, instructor, Department of Medicine, received a three-year, \$231,000 Scientific Development Award from the American Heart Association for “Identification and Characterization of a Novel Gene Influencing LDL Levels.”

► **Andrew Neuwald, PhD**, professor, Department of Biochemistry & Molecular Biology, received a funding award in the amount of \$131,060.73 from the NIH in June.

► **Steven Prior, PhD**, assistant professor, Department of Medicine, received a three-year, \$532,000 K23 award in August for “Effects of Aerobic Exercise on EPC’s and Vascular Dysfunction in Aging and T2DM.”

► **Joseph Roche, PhD**, assistant professor, Department of Physiology, received a one-year, \$56,511 grant from the Jain Foundation for his research “Targeting Mitochondrial Mediated Apoptosis for Effectively Treating Dysferlinopathies.”

► **William Stanley, MD**, professor, Department of Medicine, received a two-year, \$351,000 R21 grant for “Mitochondrial Proteome Dynamics in Heart Failure Assessed with Heavy Water.” It started on August 1.

► **Ming Tan, PhD**, professor, and **Hongbin Fang, PhD**, associate professor, both from the Department of Epidemiology & Public Health, have been awarded a \$500,000, four-year grant from the National Institutes of Health for their work “Statistical Methods for Multi-Drug Combinations.”

► **Paul Welling, MD**, professor, Department of Physiology, received a four-year, \$1,062,608 research grant (as part of an NIH, Multi-PI grant with collaborator Dr. Eric J. Delpire and Vanderbilt University) from the National Institute of Diabetes and Kidney Diseases (NIDDK) for “Kinase Modulation of Na<sup>+</sup>-Dependent Cl-Coupled Transporters in Mouse Kidney.” He also received a five-year, \$1,669,315 NIH competing-renewal grant from the NIDDK for “Molecular Basis of Potassium Channels in the Kidney.”



Steven Prior, PhD



## GRANTS & CONTRACTS *continued*



Owen White, PhD

- ▶ **Kelly Westlake, PhD**, assistant professor, Department of Physical Therapy & Rehabilitation Science, was awarded a University of Maryland Claude D. Pepper Older Americans Independence Center Pilot Award, which includes one year of funding (starting in August 2012), for “Probing the Neural Basis and Influence of Cognitive Changes on Impaired Balance and Rehabilitation in Older Adults.”
- ▶ **Owen White, PhD**, professor, Department of Epidemiology & Public Health and Institute for Genome Sciences, has been awarded a \$2.8 million, three-year grant from the National Human Genome Research Institute for “ODF: Support Infrastructure for Nextgen Sequence Storage Analysis and Management.”
- ▶ **Danna Zimmer, PhD**, associate professor, Department of Biochemistry & Molecular Biology and the Center for Biomolecular Therapeutics, has received a Complex Therapeutics Seed Grant to examine the effectiveness of two novel, antibody-based therapeutics on Alzheimer’s disease progression. This marks the first year for the Complex Therapeutics Seed Grants, which fund new projects that address research questions pertaining to biologic drugs and vaccines. This program was initiated by the University of Maryland Institute of Bioscience and Biotechnology Research (IBBR) to foster creative teams of investigators working across disciplinary boundaries and campuses.

## *We applaud our colleagues on their recent appointments!*

- ▶ **Vanessa Foreman** has been appointed as Senior Administrator for the Institute for Genome Sciences, as of June 14. Vanessa brings more than a decade of University of Maryland School of Medicine academic administrator experience to her new position.
- ▶ **Ashutosh Sachdeva, MBBS**, assistant professor, Department of Medicine, has been appointed head of the new Interventional Pulmonology section within the Division of Pulmonary and Critical Care. Dr. Sachdeva is bringing his clinical expertise to the University of Maryland after completing an Interventional Pulmonology fellowship at Virginia Commonwealth University.
- ▶ **Alan Shuldiner, MD**, the John Whitehurst Professor in the Department of Medicine, associate dean for Personalized Medicine, and director of the Program in Personalized & Genomic Medicine, has been appointed as Chair of the Observational Monitoring Board for the NHLBI Life After Linkage Consortium.
- ▶ **Trevor L.G. Valentine, MBBS**, assistant professor, Department of Pediatrics, has been appointed to the Maryland Department of Health and Mental Hygiene’s (DHMH) Autism Technical Advisory Group by DHMH Secretary Joshua M. Sharfstein, MD. This appointment is in recognition of his expertise in the areas of pediatric autism and autism spectrum disorders (ASDs).
- ▶ **The Center for Biomedical Engineering and Technology (BioMET)** has formally become an organized research center within the University of Maryland School of Medicine. The SOM Executive Committee recommended acceptance at their June meeting, and the motion was passed by the SOM Council on June 19.

## 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:**  
Leslie Fitzpatrick

**Anesthesiology:** Betsy Burcham  
**Biochemistry & Molecular Biology:**  
Qun Zhou

**Dermatology:** Betsy Satosky  
**Diagnostic Radiology & Nuclear Medicine:** Nan Knight  
**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 Birkhead

**Neurosurgery:** Terry Roberts

**Obstetrics, Gynecology & Reproductive Sciences:** Robin Kissinger

**Ophthalmology:** Chinneta Pettaway-Willis

**Orthopaedics:** Dori Kelly

**Otorhinolaryngology:** Bryan Ambro

**Pathology:** Carmen White

**Pediatrics:** Connie Ward

**Pharmacology:** TBD

**Physical Therapy & Rehabilitation Science:** Caelie Haines

**Physiology:** Ken Fahnestock

**Psychiatry:** Vee Porter-Brown

**Radiation Oncology:** Jill Rosenberg

**Surgery:** Meghan Scalea

**Program in Comparative Medicine:**  
Deborah Sanchez

**Program in Genetics & Genomic Medicine:** Rose Cosentino

**Program in Minority Health & Health Disparities:** Maurice Walker

**Program in Neuroscience:** Tom McHugh

**Program in Oncology:** Stephen Long

**Program in Trauma:** Cynthia Rivers

**Center for Health Policy & Health Services Research:** Maurice Walker

**Center for Integrative Medicine:**  
Harry Bosk

**Center for Mucosal Biology Research (MBRC):** Pam King

**Center for Research on Aging:**  
Kara Longo

**Center for Shock, Trauma and Anesthesiology Research (STAR-ORC):**  
Jane Anderson

**Center for Stem Cell Biology & Regenerative Medicine:**  
LaRondi Flowers

**Center for Vaccine Development:**  
Carey Martin

**Center for Vascular & Inflammatory Diseases:** Talia Bailey

**Institute for Autoimmunity and Inflammation:** Susie Flaherty

**Institute for Genome Sciences:**  
Renée Nathaniel

**Institute of Human Virology:**  
Nora Grannell

**MD/PhD Program:** Jane Bacon

**Office of Admissions:** Mickey Foxwell

**Office of Development:** Emily Cooke

**Office of Faculty Affairs & Professional Development:**  
Robertha Simpson

**Office of Information Services:**  
Sharon Bowser

**Office of Policy & Planning:**  
Maurice Walker

**Office of Public Affairs:**  
Caelie Haines

**Office of Research Career Development:** Stacie Small Mendoza

**Office of Research & Graduate Studies:** Tom Hooven

**Office of Student Affairs:**  
Dawn Roberts

**Office of Student Research:**  
Jean Marie Roth

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)