JUNE 2011 VOL.12 NO.10

UNIVERSITY of MARYLAND SCHOOL OF MEDICINE what's the buzz?

Self-Reported News from the School of Medicine Community



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

► Joana Carneiro da Silva, PhD, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, received a five-year \$1,640,357 grant from the National Science Foundation for her work entitled "Dimensions: Collaborative: Uncovering the Novel Diversity of the Copepod Microbiome and Its Effect on Habitat Invasions by the Copepod host."



► Claire Fraser-Liggett, PhD, professor, Departments of Medicine and Microbiology & Immunology, and director of the Institute for Genome Sciences, received a nine-month \$250,000 grant from the National Institute of Diabetes and Digestive and Kidney Diseases entitled "The Thrifty Microbiome." The award is a supplement for Dr. Fraser-Liggett's work on the National Institutes of Health "Human Microbiome Project." In addition, Dr. Fraser-Liggett received a one-year \$105,614 grant for her work entitled "Metagenomic Evaluation of the Oral Flora of Pediatric HIV Patients" and a four-year R01 \$671,596 grant for "Identification of Antigens for Anti-HIV Broadly Neutralizing Responses," both from the Children's Research

Claire Fraser-Liggett, PhD

Institute. She also received a one-year U01 \$208,891 grant for "Phase I Randomized Study to Evaluate the Safety of Lactobacillus Rhamnosus Gg ATCC (LGG) in Healthy Volunteers" and a two-year \$351,155 grant for "The Effect of Influenza Vaccination and LGG vs. Placebo on the Microbiota of Healthy Elderly Subjects," both from Massachusetts General Hospital.

▶ Nancy Knight, PhD, assistant professor, Department of Diagnostic Radiology & Nuclear Medicine, is the PI on a research contract with the National Cancer Institute through SAIC-Frederick to create and support the cancer Bioinformatics Information Grid (caBIG®) Imaging Knowledge Center. The

CONTRACTS

contract, awarded in December 2010 at \$504,000 per year, is renewable for four years and extensible beyond this time period.

▶ Toni I. Pollin, PhD, assistant professor, Department of Medicine, received a five-year \$3.2 million research grant from the National Heart, Lung and Blood Institute for her project entitled "The Metabolic Impact of ApoC-III Deficiency in Humans."



David Rasko PhD

five-year R01 \$440,612 grant from the University of Tennessee for his work entitled "Novel Antigen Identification for an Enterotoxigenic E. coli Vaccine." In addition, Dr. Rasko received a three-year ARRA \$1,285,576 grant for "E.coli Variome" from the University of Washington.

► Jacques Ravel, PhD, associate professor, Department of Microbiology & Immunology, and

associate director of Genomics, Institute for Genome Sciences, received a three-year \$1,146,591 grant from the Children's National Medical Center for "HIV Microbidices and the Vaginal Microbiome."

David Rasko, PhD, assistant

▶ Alan R. Shuldiner, MD, Whitehurst Professor of Medicine, and associate dean and director, Program in Personalized Medicine, received a five-year \$11.4 million grant as part of the Pharmacogenomics Research Network from the National Institutes of Health for "Pharmacogenomics of Anti-platelet Intervention-2 (PAPI-2) Study."



GRANTS & CONTRACTS continued

Rebecca L. Wald, PhD, assistant professor, Institute of Human Virology and Departments of Medicine and Psychiatry, received a three-year \$672,000 grant from the National Institutes of Health for her

> project entitled "Increasing Motivation for Antiretroviral Therapy Initiation: A Pilot Intervention."



Owen White, PhD, professor,

Department of Epidemiology & Public Health, and associate director of Bioinformatics, Institute for Genome Sciences, and Anup

Rebecca L. Wald, PhD

Mahurkar, MBA, director of Software Engineering & IT, Institute for Genome Sciences, received a two-month \$98,877 grant, entitled "Pathogen Surveillance and Discovery Testing," from the Edgewood Chemical Biological Center.

Owen White. PhD



Thanks to those who selflessly donate their time, talent and resources. Your goodwill does not go unappreciated.

Douglas Ross, MD, PhD, professor, Department of Medicine, Matthew Whitehurst, MD, internal medicine resident, Department of Medicine, and Timothy Meiller, DDS, University of Maryland Dental School, contributed to the underserved community of Port Maria, Jamaica, during a medical mission in January 2011, which was hosted by St. Mary's Church in Port Maria. Drs. Ross and Meiller have participated in this annual medical mission event for more than 10 years. The mission included four days of diabetes and hypertension screening, teeth cleaning and extractions, optometry and gynecologic visits and addressing other medical complaints. Well over 400 Jamaicans were evaluated by the medical team during the trip and an infant incubator was purchased and donated to the local hospital in Port Maria.

IN THE NEWS



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

► Alan S. Cross, MD, professor, Department of Medicine, was featured in the January 31, 2011, issue of Scientific American. The article, "Milk of Life: Dairy Cows Inoculated against Sepsis Could Help Malnourished Children," outlined Dr. Cross's successful development of a vaccine against sepsis and his hopes to deliver this vaccine to malnourished children via cow's milk. By inoculating the cows, they will produce an antibody-rich colostrum, which can be delivered to malnourished children as a nutritional supplement. Malnourishment causes many infections of the digestive system, pushing up the mortality rate of at-risk populations. Dr. Cross has received a one-year Proof of Concept Alliance grant to conduct further experiments on this novel concept. The work will be done in collaboration with Bali BioSciences, the company that licensed the vaccine.



Alan S Cross MD

To view the article, visit http://www.scientificamerican.com/article. cfm?id=milk-of-life-dairy-cows-i.



Hervé Tettelin, PhD

► Hervé Tettelin, PhD, associate professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was interviewed by MIT's Technology Review on January 28, 2011, about the publication of a large-scale Streptococcus pneumoniae genomics study in the journal Science.

The article is entitled "Decoding Pneumonia's Defenses."

Steven R. Gambert, MD, MACP, professor, Department of Medicine, and co-director, Division of Gerontology and Geriatric Medicine, was

featured in a nationally broadcast radio show, 911: Emergency Talk Radio, on January 28, 2011, where he was interviewed by Leigh Vinocur, MD, director of strategic initiatives, Office of Development, and clinical assistant professor, Department of Emergency Medicine, about "Trauma and the Elderly."



Steven R. Gambert, MD. MACP

PUBLICATIONS

been cited 50 or more times according to the ISI Web of Science database.

Timm Dickfeld, MD, PhD, associate professor, Department of Medicine, published an article entitled "MRI-Guided Ventricular Tachycardia Ablation: Integration of Late Gadolinium Enhanced 3D Scar in Patients with ICD" in the January 2011 issue of Circulation Arrhythmia and Electrophysiology and "Quo vadis Ventricular Tachycardia Ablation: New Horizons and Developments" in Expert Review of Medical Devices, 2011 Mar;8(2):131.

Timm Dickfeld, MD, PhD

Vasken Dilsizian, MD, professor, Department of Diagnostic Radiology & Nuclear Medicine, was the senior author of "Preclinical Myocardial Metabolic Alterations in Chronic Kidney Disease" in Cardiology, 2010;116:160–167. Mark F. Smith, PhD, associate professor, Department of Diagnostic Radiology & Nuclear Medicine, was a co-author. Additionally, Dr. Dilsizian co-authored "Iodofiltic Acid I 123 (BMIPP) Fatty Acid Imaging Improves Initial Diagnosis in Emergency Department Patients with Suspected Acute Coronary Syndromes-A Multicenter Trial" in the Journal of the American College of Cardiology, 2010;56:290–299, and co-authored three review articles "Cardiac PET Imaging for the Detection and Monitoring of Coronary Artery Disease and Microvascular Health" in JACC Cardiovascular Imaging, 2010;3:623-640, "Myocardial Perfusion Imaging in Hypertrophic Cardiomyopathy" JACC Cardiovascular Imaging. 2010;3:1078–1080, and "Nuclear Cardiac Imaging" in Hypertrophic Cardiomyopathy" in the Journal of Nuclear Cardiology, 2010, which was e-published on August 25, 2010, ahead of print. He also co-authored "Strategies for Defining an Optimal Risk-Benefit Ratio for Stress Myocardial Perfusion SPECT," which was e-published on March 24, 2011, ahead of print, in the Journal of Nuclear Cardiology.

Michelle Gwinn Giglio, PhD, assistant professor, Department of Medicine and Institute for Genome Sciences, and Marcus C.



Vasken Dilsizian. MD



Mark F. Smith. PhD

Hats off to those who have been published!



214, and authored the following articles in the American Journal of Transplantation: "Literature Watch: Fundamental Findings in Tissue Injury and Repair: New Insights Into the Etiology of Renal Fibrosis," 2011, 1:3; Literature Watch: The Inflammasome: The Heart of Transplant Morbidity?" 2011, 11:189; Literature Watch: What's in a Name? Type 1and Type 2 Responses," 2011, 11:417; and "Literature Watch: Markers of Organ Function: If You Search, What Will You Find?" 2011,

► Jonathan Bromberg, MD, PhD, professor, Departments of Sur-

gery and Microbiology & Immunology, co-authored "Distinct Inflammatory Signals Have Physiologically Divergent Effects

on Epigenetic Regulation of Foxp3 Expression and Treg Func-

tion" in the American Journal of Transplantation, 2011, 11:203-

Jonathan Bromberg, MD. PhD

> 11:643. Additionally, Dr. Bromberg co-authored "Myeloid-Derived Suppressor Cells: Natural Regulators for Transplant Tolerance" in Human Immunology, 2010, 71:1061-1066; "Targeting Lymphangiogenesis after Islet Transplantation Prolongs Islet Allograft Survival" in Transplantation, in press; "Massive ex vivo Expansion of Human Natural Regulatory T cells (Tregs) with Minimal Loss of in vivo Functional Activity" in Science Translational Medicine, in press; and "Stat4 Is Critical for the Balance between Th17 and Treg in Colitis: in the Journal of Immunology, in press.



Joana Carneiro da Silva, PhD, assistant professor, and James Munro, PhD, both from the Department of Microbiology & Immunology and Institute for Genome Sciences, and Amy Egan, bioinformatics software engineer, Institute for Genome Sciences, co-authored a paper entitled "Genome Sequences Reveal Divergence Times of Malaria Parasite Lineages" in Parasitology, 2010 Dec 1:1-13, [Epub ahead of print] PMID: 21118608.

Carol Carraccio, MD, professor, Department of Pediatrics, and

Joana Carneiro da Silva. PhD

Susan D. Wolfsthal, MD, professor, Department of Medicine, were recognized by Academic Medicine's AM Classics, for their article "Shifting Paradigms: From Flexner to Competencies" in Academic Medicine, 77:361-367, May 2002. AM Classics is a collection of articles published in Academic Medicine since 1990 that have

PUBLICATIONS continued



Michelle Gwinn Giglio, PhD



bidity and Mortality Committee, co-published "Rates of New Neurological Deficit Associated with Spine Surgery Based on 108,419 Procedures: A Report of the Scoliosis Research Society Morbidity and Mortality Committee" in *Spine*, 2011 Jan 6. In addition, Dr. Hamilton co-published "Management and Implications of Intraoperative Cerebrospinal Fluid Leak in Transnasoseptal Transphenoidal Microsurgery" in *Neurosurgery*, 2011 Mar;68(1 Suppl Operative):144-50; discussion 150-1, and "Morbidity and Mortality in the Surgical Treatment of 10,242 Adults with Spondylolisthesis" in the *Journal of Neurosurgery Spine*, 2010 Nov;13(5):589-93. Dr. Hamilton also published two book chapters in *Transphenoidal Surgery*, editors: E Laws and G Lanzino; Saunders, PA 8/2010: "Prolactinoma Surgery" and "Surgery for Non- functioning adenomas."

Chibucos, **PhD**, bioinformatics analyst, Institute for Genomes Sciences, co-authored "Unifying Themes in Microbial As-

sociations with Animal and Plant Hosts Described Using the

D. Kojo Hamilton, MD, assistant professor, Department of

December 2010, 74: 479-503.

Gene Ontology," in Microbiology and Molecular Biology Reviews,

Neurosurgery, along with the Scoliosis Research Society Mor-

D. Kojo Hamilton, MD

Bertrand Janne d'Othée, MD, MPH, associate professor, Depart-

ment of Diagnostic Radiology & Nuclear Medicine, co-au-

thored "Comparison of Clinical and MR Imaging Outcomes after Uterine Fibroid Embolization with Bead Block and Embosphere," which was e-published on March 24, 2011, ahead of print, in the *European Journal of Radiology*.

▶ Jean Jeudy, MD, assistant professor, Department of Diagnostic Radiology & Nuclear Medicine, was among the authors of "Aortic Dissection and Pericardial Tamponade Causing Compression of the Pulmonary Arteries in a Patient with Prior Cardiac Surgery," which was e-published on March 30, 2011, ahead of print in the *Journal of Cardiac Surgery*.

Ayse L. Mindikoglu, MD, MPH, assistant professor, and Stephen L. Seliger, MD,
MS, assistant professor, both from the Department of Medicine, and Laurence
S. Magder, PhD, MPH, professor, Department of Epidemiology & Public Health,

co-published "Gender Disparity in Liver Transplant Waiting-List Mortality: The Importance of Kidney Function" in *Liver Transplantation*, 2010, Oct;16(10):1147-57.

► Giora Netzer, MD, MSCE, assistant professor, Departments of Medicine and Epidemiology & Public Health, co-published "Decreased Mortality Resulting from a Multicomponent Intervention in a Tertiary Care Medical Intensive Care Unit" in *Critical Care Medicine*, 39, February 2011 edition, along with co-authors Xinggang Liu, MD, graduate research assistant I, and Anthony Harris, MD, MPH, both from the Department of Epidemiology & Public Health, and Carl Shanholtz, MD, associate professor, and Avelino Verceles, MD, assistant professor, both from the Department of Medicine.



Andrew F. Neuwald, PhD

► Andrew F. Neuwald, PhD, professor, Department of Biochemistry & Molecular Biology and Institute for Genome Sciences, published

"Bayesian Classification of Residues Associated with Protein Functional Divergence: Arf and Arf-like GTPases", in *Biology Direct*, December 2010, 5:66, PMID 21129209.

► EusebiusHenry Nkyimbeng-Takwi, PhD, postdoctoral fellow, and Svetlana P. Chapoval, MD, PhD,

assistant professor, both from the Department of Microbiology & Immunology and Center for Vascular & Inflammatory Diseases, co-published a review article entitled "Biology and Function of Neuroimmune Semaphorins 4A and 4D" in the January 2011 issue of *Immunologic Research*, 50:10-21.

▶ Pablo Rabinowicz, PhD, assistant professor, Department of Biochemistry & Molecular Biology and Institute for Genome Sciences, co-authored an article entitled "Abiotic Stress-Related ESTs from the Diploid Strawberry *Fragaria vesca f. semperflorens*" in *The Plant Genome*, January 27, 2011; 4:1-12, DOI: 10.3835/plantgenome2010.08.0018.

► Aaron P. Rapoport, MD, professor, Department of Medicine and Program in Oncology, published an article entitled "Com



Svetlana P. Chapoval, MD, PhD



Aaron P. Rapoport, MD

PUBLICATIONS continued

bination Immunotherapy Using Adoptive T-cell Transfer and Tumor Antigen Vaccination on the Basis of hTERT and Survivin after ASCT (Autologous Stem Cell Transplantation) for Myeloma" in *Blood*, 2011; 117(3): 788-797.

David Rasko, PhD, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, co-authored "*Escherichia coli* Global Gene Expression in Urine from Women with Urinary Tract Infection" in *PloS Pathogens*, November 11, 2010; 6(11): e1001187.PMID: 21085611. Additionally, Dr. Rasko and **James B. Kaper**, PhD, professor and chair, Department of Microbiology & Immunology, co-authored an article entitled "Functional and Phylogenetic Analysis of *ureD* in Shiga Toxin-Producing *Escherichia coli*," in the *Journal of Bacteriology*, February 2011; 193(4):875-886.



Jacques Ravel, PhD

► Jacques Ravel, PhD, associate professor, Department of Microbiology & Immunology, and associate director of Genomics, Institute for Genome Sciences, **Owen White**, PhD, professor, Department of Epidemiology & Public Health, and associate director of Bioinformatics, Institute for Genome Sciences, **Michelle Gwinn Giglio**, PhD, assistant professor, Department of Medicine, Lynn Schriml, PhD, assistant professor, Department of Epidemiology & Public Health, and **Heather Huot-Creasy**, bioinformatics analyst, co-authored "Minimum Information about an Environmental Sequence" (MIENS) specification, in *Nature Preceedings*, November 16,

2010, doi:10.1038/npre.2010.5252.2. Drs. Giglio and Schriml and Ms. Huot-Creasy all work in the Institute for Genome Sciences as well.

Howard Richard, MD, assistant professor, Department of Diagnostic Radiology & Nuclear Medicine, co-authored "Cryoablation of Renal Fossa Recurrence after Radical Nephrectomy" in the April 2011 issue of the *Journal of Endourology*, 2011;25:559–562.

Jason Sahl, PhD, post-doctoral fellow, and **Julia Redman**, research specialist, both from the Institute for Genome Sciences, and **David Rasko, PhD**, assistant professor, Department of Microbiology & Immunology and the Institute for Genome Sciences, co-authored "Genomic Characterization of Asymptomatic

Escherichia coli Isolated from the Neobladder," in *Microbiology*, January 20, 2011; PMID: 21252277. Additionally, Drs. Sahl and Rasko and Ms. Redman, along with **Samuel Angiuoli**, bioinformatics software manager, co-authored "A Comparative Genomic Analysis of Diverse Clonal Types of Enterotoxigenic *Escherichia coli* Reveals Pathovar-Specific Conservation" in *Infection and Immunity*, November 15, 2010, PMID: 21078854. Enterotoxigenic *E. coli* is responsible for significant death in children under five in the developing world. This paper represents the largest number of ETEC genomes analyzed to date and identified a common genome core in these isolates that was not previously appreciated. These findings will have implications for the further development of vaccines and therapeutics for this pathogen.

► **Carl Shanholtz**, **MD**, associate professor, Department of Medicine, co-authored "Fixed-Dose Rasburicase 6 mg for Hyperuricemia and Tumor Lysis Syndrome in High-Risk Cancer Patients" in the October 2010 issue of the *Annals of Pharmacotherapy*. The first author was **Ashleigh Vines**, a student in the School of Pharmacy who, Dr. Shanholtz said "doggedly pursued this research in addition to her other course work". The senior author was **Jenni Thompson**, a pharmacist in the Greenebaum Cancer Center Pharmacy at the time of submission, who supervised the project and the writing in the midst of a busy schedule.

 Jing Tian, BM, PhD, research associate, and Timm Dickfeld, MD, PhD, associate professor, both from the Department of Medicine, along with Jean Jeudy, MD, assistant professor, and Mark F. Smith, PhD, associate professor, both from the Department of Diagnostic Radiology & Nuclear Medicine, co-published "Three Dimensional Contrast Enhanced Multi-Detector CT For Anatomic, Dynamic and Perfusion Characterization of Abnormal Myocardium to Guide VT Ablations" in Circulation Arrhythmia & Electrophysiology, 2010 Jul 24.

► James Robert White, PhD, bioinformatics software engineer II, Institute for Genome Sciences, co-authored "Metagenomics of the Subsurface Brazos-Trinity Basin (IODP site 1320): Com-

parison with Other Sediment and Pyrosequenced Metagenomes" in *The ISME Journal*, January 6, 2011, DOI:10.1038/ismej.2010.199.



Carl Shanholtz, MD

Jing Tian, BM, PhD



Honors

& Awards

Congratulations to the following who have received honors!

▶ **Richard Macko, MD**, professor, Department of Neurology, received this year's Paul B. Magnuson Award for Outstanding Achievement in Rehabilitation Research and Development. The annual award, which includes funding of peerreviewed research, recognizes an investigator at the Veterans Health Administration for entrepreneurship, humanitarianism and dedication to veterans. Dr. Macko received a \$5,000 cash award, a plaque and \$50,000 per year for three years to support his current research.

Claudia R. Baquet, MD, MPH, associate dean, Office of Policy and Planning, and professor, Department of Medicine, was the Health and Research 2011 recipient of the "Living Women History Makers' Award" from The Baltimore City Club of the National Association of Negro Business and Professional Women's Clubs, Inc. The award was presented in recognition of her health and research contributions.

▶ Julie Dunning Hotopp, PhD, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, received the "Leading Women Maryland's Future" award from the *Daily Record* in December 2010. The award recognizes fifty women, forty years old or younger, for their exceptional career accomplishments, professional experience, community involvement and commitment to inspiring change.

CORRECTION

Due to a submission error, Dr. Paul Antony's name was misspelled, and some grant information was omitted, in a Buzz brief that was printed in the May 2011 issue. The submission should have read as follows:

Paul Andrew Antony, MD, assistant professor, Departments of Pathology and Microbiology & Immunology, received a three-year \$561,000 FY10 Idea Award grant from the U.S. Department of Defense Peer Reviewed Cancer Research Program of the U.S. Office of the Congressionally Directed Medical Research Programs for his application on "Mechanisms of Relapsing Cancer and the Origin of Melanoma-Specific Regulatory T Cells."

Appointments



We applaud our colleagues on their recent appointments!

Svetlana Chapoval, MD, PhD, assistant professor, Department of Microbiology & Immunology, Center for Vascular and Inflammatory Diseases and Program in Oncology, served as a member of the NIH and National Institute of Allergies and Infectious Disease Scientific Review Group for Asthma & Allergic Diseases Cooperative Research Center (U19 program projects) in the Washington, DC, area meeting in March 2011.

Raymond Cross, MD, MS, associate professor, Department of Medicine and **Stephen Kavic, MD, FACS**, assistant professor, Department of Surgery, were appointed co-directors of the Digestive Health Center at the University of Maryland Medical Center.

Stephen N. Davis, MBBS, FRCP, FACP, Theodore E. Woodward Professor of Medicine, and chair, Department of Medicine, has been appointed to the board of the Maryland Chapter of the American Diabetes Association, beginning January 2011.

Ziv J. Haskal, MD, professor, Department of Diagnostic Radiology & Nuclear Medicine, was named editor-in-chief of *The Journal of Vascular and Interventional Radiology*, the official journal of the Society of Interventional Radiology. He plans to enhance the journal with new electronic learning features and other innovations.

Charles D. Howell, MD, professor, Department of Medicine, has been named a fellow of the American Gastroenterological Association (AGA), the nation's oldest medical society dedicated to disorders of the gastrointestinal tract. Through the fellowship program, the AGA honors superior professional achievement in clinical private or academic practice and in basic or clinical research. Fellow-



Ziv J. Haskal, MD

ships are awarded to AGA members whose accomplishments and contributions demonstrate personal commitment to the field of gastroenterology. The mission of the AGA is to promote the science and practice of gastroenterology through the support of research, education, advocacy and practice.

Alan R. Shuldiner, MD, Whitehurst Professor of Medicine, and associate dean and director, Program in Personalized Medicine, was appointed to the National Heart, Lung and Blood Institute Observational Study Monitoring Board for the Action to Control Cardiovascular Risk in Diabetes Follow-On Study, or ACCORDION.

Events, Lectures



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

► Jonathan Bromberg, MD, PhD, professor, Departments of Surgery and Microbiology & Immunology, presented an invited lecture, "Induction, Migration and Function of Treg," at the University of Alberta's Alberta Transplant Applied Genomics Center in Edmonton, Canada, in January 2011, as well as "Induction, Migration and Function of Treg" at the Keystone Symposium on Immunoregulatory Netoworks, in Breckenridge, Colorado, in April 2011.

► Joana Carneiro da Silva, PhD, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was an invited speaker in the Genomics Seminar Series organized by the Genetics and the Parasitology PhD Programs of the Universidade Federal de Minas Gerais, Brazil. Her lecture was entitled "Divergence Times within the Genus *Plasmodium* Revealed by Two Genomics Approaches." In addition, she was a panelist in the "NIH Career Symposium" session on "Getting Academic Tenure" in Bethesda in May 2011.

James G. Cushman, MD, associate professor, Department of Surgery, presented "Blast Injuries: Pathophysiology and Treatment" at the TraumaCare 2011: Doing More with Less in Austere Environments conference in Baltimore in April 2011.

▶ D. Kojo Hamilton, MD, assistant professor, Department of Neurosurgery, presented two podium lectures at the 27th Annual Meeting of the American Association of Neurological Surgeons/Congress of Neurological Surgeons on Disorders of the Spine and Peripheral Nerves: Evidence-Based Spine Surgery in the Real World in Phoenix, Arizona, in March 2011. Dr. Hamilton's presentations were entitled "Proximal Junctional Kyphosis in Adult Thoracolumbar Instrumented Fusion: Time to Development, Clinical and Radiographic Characteristics, and Management Approach in 32 Consecutive Cases" and "Safety, Efficacy and Dosing of Recombinant Human Bone Morphogenetic Protein-2 (rhBMP-2) for Posterior Cervical and Cervico-Thoracic Instrumented Fusion with a Minimum Two-Year Follow-Up."

Ziv J. Haskal, MD, professor, Department of Diagnostic Radiology & Nuclear Medicine, led a delegation of U.S. interventional radiologists to the 9th Scientific Meeting of the Chinese Society of Interventional Radiology in Guangzhou, China, in September 2010, where he presented four lectures in plenary sessions, held a variety of meetings on intersociety collaboration and discussed journal collaborations.

& Workshops

Sharon M. Henry, MD, associate professor, Department of Surgery, presented "Surgical Treatment of Massive Soft Tissue Injuries" at the Trauma Care 2011: Doing More with Less in Austere Environments conference in Baltimore in April 2011. Dr. Henry, along with Thomas
M. Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, and director of the Program in Trauma, and Amy Sisley, MD, MPH, assistant professor, and Deborah
M. Stein, MD, MPH, associate professor, both from the Department of Surgery, presented "Case Study from Walter Reed Rehab" at the Trauma Care 2011.

Christopher V. Plowe, MD, MPH, professor, Department of Medicine, presented "Progress on Drug Resistant Malaria: Use of Genomics to Identify Artemisinin Resistance Markers" at the China CDC in Shanghai, China, in February 2011. Additionally, Dr. Plowe presented "Vaccine Resistant Malaria" at the School of Public Health at Yale University in March 2011. The lecture was part of the school's Epidemiology of Microbial Diseases Seminar Series.

▶ David Rasko, PhD, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was an invited speaker at the Florida Genetics 2010 Symposium at the University of Florida in October 2010. His lecture was entitled "Genomic and Transcriptomic Characterization of *E. coli/Shigella*: Novel Insights into Established Pathogens." In addition, Dr. Rasko spoke at the Washington, DC, branch of the American Society for Microbiology Meeting in November 2010, where he presented "Pathogen Genomics: Where We Were, Are and Will Be" and was a plenary speaker at the National Interagency Genome Sciences Coordinating Committee Retreat in December 2010, presenting "Comparative Genomic Sequencing: Three Technologies for Three Pathogens." He also was an invited speaker at the Northern Arizona University and Translational Genomics Research Institute in January 2011, where he presented "Genomic and Transcriptomic Analysis of Enteric Pathogens: Revisiting Paradigms of Established Pathogens."

Thomas M. Scalea, MD, Francis X. Kelly Professor of Trauma Surgery, and director of the Program in Trauma, presented "Injury as Global Issue: Shock Trauma's Impact and Experience" at the National Italian American Foundation's Distinguished Lecture Series, which was hosted at the University of Maryland, Baltimore's Southern Management Corporation Campus Center in March 2011. In addition, Dr. Scalea presented "Advantages of Trauma Systems in Austere Conditions" at the Trauma Care 2011: Doing More with Less in Austere Environments conference in Baltimore in April 2011.

In Memoriam



Hugo González-Serratos, MD, MSc, PhD, a professor in the Department of Physiology, passed away on April 1, 2011, from post-surgery complications at Sinai Hospital. He is survived by his wife, Olivia; two daughters, Selene and Linette; a daughter-in-law and four grandchildren, as well as relatives in Mexico.

Born in Guanajuarto, Mexico, Dr. González-Serratos earned his MD at the University of Mexico (Universidad

Nacional Autonoma de México) and his MSc at the Centro de Investigacion y de Estudios Avanzados del IPN, both in Mexico City. His PhD training was in the laboratory of Sir Andrew Huxley (1963 Nobel Prize winner) who became his mentor and close friend for life. They not only shared research interests, but also enjoyed a love of nature and the intricacies of microscopes and optics. Dr. González-Serratos had the pleasure and honor of attending special events with Sir Andrew Huxley in Cambridge, and hosted him at UMB for a special lecture.

In 1979, Dr. González-Serratos joined the former Department of Biophysics at the University of Maryland. He transferred to the Department of Physiology in 1994. His major research interests included skeletal muscle, excitationcontraction coupling and magnesium regulation as well as the mechanisms that cause muscle fatigue.

As one of the more colorful teachers in Functional Systems, Dr. González-Serratos taught Skeletal Muscle Excitation-Contraction Coupling and Contractility, and small group conferences on Cell Function. Using humor and demonstrations, he had a unique way of explaining scientific principles to his classes. Dr. González-Serratos also developed the popular Medical Spanish Program, which was a 10-week elective class offered each semester to 1st and 2nd year medical students at beginning, intermediate and advanced levels. For interested students, he arranged summer stays working in Mexican hospitals and clinics. In addition, he taught the Nerve Laboratory for medical students as part of the Neuroscience Course. Mentoring graduate students and postdoctoral fellows in his laboratory was always a delight for Dr. González-Serratos.

He belonged to a number of organizations, including the Biophysical Society and the American Physiological Society. For a number of years, he served on the Campus Judicial Board Committee, and organized the International Symposia in Biochemical and Physiological Aspects of Muscle Research in Mexico City.

Dr. González-Serratos will always be remembered for his kindness, thoughtfulness, brilliance and gift of sharing his knowledge and advice to all. He will be greatly missed by family, faculty, staff, students and friends.

A current-use fund has been established by the Department of Physiology and the Program in Muscle Biology to provide an annual lecture to honor Dr. Hugo González-Serratos. To contribute to the scholarship, please visit www. fundformedicine.org, click on the "Make a Gift" button on the left hand side and include "González-Serratos Lecture" in the "Comments" field.

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: Karen Webster Medical & Research Technology: Cvnthia Stambach Medicine: Molly Lutz Microbiology & Immunology: Teri Robinson Neurology: Paula Gilley Neurosurgery: Terry Roberts **Obstetrics, Gynecology & Reproduc**tive Sciences: Robin Kissinger **Ophthalmology: Nancy Cook** Orthonaedics: Dori Kelly Otorhinolaryngology: Bryan Ambro Pathology: Carmen White Pediatrics: Christina Wills

Pharmacology & Experimental Therapeutics: Anne Nourse Physical Therapy & Rehabilitation Science: Krista Nazelrod Physiology: Ken Fahnestock Psychiatry: Vee Porter-Brown Radiation Oncology: Jill Rosenberg Surgery: Daniel Zhu **Program in Comparative Medicine:** Deborah Sanchez **Program in Genetics & Genomic** Medicine: Pam Shinnick **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 or MBRC: Pam King Center for Research on Aging: Kara Longo

Center for Shock, Trauma and Anes thesiology Research or STAR-ORC: Jane Anderson Center for Stem Cell Biology & Regenerative Medicine

LaRondi Flowers Center for Vaccine Development: Gloria Smedlev

Center for Vascular & Inflammatory Diseases: Vanessa Foreman

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: Jim McNamee Office of Policy & Planning: Maurice Walker Office of Public Affairs:

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

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