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 October 2010 Vol.12 No.2

Honors & Awards

Congratulations to the following who have received honors!

Rudy J. Castellani, Jr., MD

► **Rudy J. Castellani, Jr., MD**, professor, Department of Pathology, is the recipient of the 2010 Alzheimer Award presented by the Journal of Alzheimer's Disease in recognition of his outstanding work, "Reexamining Alzheimer's Disease: Evidence for a Protective Role for Amyloid-β Protein Precursor and Amyloid-β," which was published in the *Journal of Alzheimers Disease*, 18, 447-452, 2009. Dr. Castellani's work is a synthesis of pathogenic hypotheses based on his work and other recent studies, and their relationship with presumed causative pathological lesions and molecules. Each year the 310 associate editors of the *Journal of Alzheimer's Disease* vote to select an outstanding article from the previous year's volume to receive this prestigious award. Dr. Castellani was presented with the bronze Alzheimer Medal, complete with the likeness of Alois Alzheimer, and a cash award, at the Alzheimer's Association International Conference on Alzheimer's Disease, in Honolulu, Hawaii.

Carnell Cooper, MD

► **Carnell Cooper, MD**, associate professor, Department of Surgery and Program in Trauma, and director of the Violence Intervention Program, was presented with The American Trauma Society Maryland Division Distinguished Achievement Award on March 17, 2010, in Annapolis for the Shock Trauma Center Violence Intervention Program (VIP) he created. The first hospital-based program of its kind, VIP ensures victims of intentional violent injury receive assessment, counseling and social support from a multi-disciplinary team to help them make critical changes in their lives. VIP is based on the idea that approaching said victims, while they are still in the hospital, immediately following a life-threatening event is an opportune moment to engage them for intervention. The model hinges on the reality that health care professionals are frequently the first, and sometimes the only, professionals to have the opportunity to intervene. Research shows that the program results in an 83 percent decrease in repeat hospitalization due to violent injury for participants and a 75 percent reduction in violent crimes committed by VIP participants.

► **Kenneth P. Johnson, MD**, professor emeritus, Department of Neurology, received the 2010 Lifetime Achievement Award from The Consortium of Multiple Sclerosis Centers (CMSC) during its 24th annual meeting in San Antonio, Texas, in June 2010. The award was presented after Dr. Johnson delivered the CMSC's Whitaker Lecture, "Remarkable History of MS Disease Modifying Therapies." The CMSC mission is to be the preeminent professional organization for multiple sclerosis healthcare providers and researchers in North America, and a valued partner in the global MS community. Its core purpose is to maximize the ability of MS healthcare providers to impact care of people who are affected by MS, thus improving their quality of life.

► **Linda Lund, PhD**, research associate, Department of Physiology, received an award for best poster at the June 2010 Gordon Research Conference on "Intermediate Filaments," which was held at the Tilton School in Tilton, New Hampshire, in June 2010. The title of her poster was "Synemin, an Intermediate Filament Protein, is Required for Desmin Association with

Linda Lund, PhD

Honors & Awards *continued*

Z-disks." Dr. Lund co-authored the study with **Robert Bloch, PhD**, professor, **Jackie Kerr, BS**, graduate student working in Dr. Bloch's lab, and **Meredith Bond, PhD**, professor and chair, all from the Department of Physiology.

► **Carly Page, BS**, graduate student in the Molecular Microbiology and Immunology Graduate program, received a travel award to attend the 29th American Society of Virologists Annual meeting in Bozeman, Montana, in July 2010, where she presented a lecture entitled "A Role for STAT1 in SARS-CoV Pathogenesis." Ms. Page works in the lab of **Matthew Frieman, PhD**, assistant professor, Department of Microbiology & Immunology.

Thomas Scalea, MD, FACS, FCCM

► **Thomas Scalea, MD, FACS, FCCM**, Francis X. Kelly Professor of Trauma Surgery, director, Program in Trauma, and physician-in-chief R Adams Cowley Shock Trauma Center, will receive the Special Achievement Award in Science and Medicine from the National Italian American Foundation (NIAF) on October 23, 2010, during the NIAF's annual convention and gala in Washington, DC. The NIAF's annual convention and gala is one of the premier events in the nation's capital and is attended by more than 3,000 guests each year. Past honorees and special guests include Lee Iacocca, Sophia Loren, Martin Scorsese, Al Pacino, Andrea Bocelli, Alan Alda, Dr. Anthony Fauci, Speaker of the House Nancy Pelosi, **Dr. Robert Gallo** and other notables in medicine, business, sports, entertainment and politics. In keeping with tradition, the NIAF anticipates the attendance of President Barack Obama, Members of Congress and other dignitaries. The National Italian American Foundation is a non-profit, nonpartisan educational foundation that promotes Italian American culture and heritage. NIAF serves as a resource for the Italian American community and has educational and youth programs including scholarships, grants, heritage travel and mentoring.

In the News

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

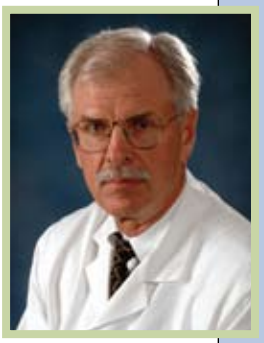
► **Kenneth P. Johnson, MD**, professor emeritus, Department of Neurology, was featured in an article in the July 2, 2010, edition of the *Baltimore Jewish Times*. The article referenced the important work done by Dr. Johnson and the University of Maryland School of Medicine in developing Copaxone, one of the first drugs for multiple sclerosis.

► **Robert Shin, MD**, associate professor, Department of Neurology, was quoted in an article in the July 6, 2010, edition of The *Washington Post*. The article was entitled "For a Few, 3-D Effects Are Not So Special: Projection Technique Uncovers Vision Problems, Even Makes Some People Sick."

Robert Shin, MD

► **Margaret Zupancic, PhD**, postdoctoral fellow, Institute for Genome Sciences, was featured on the 110th General Meeting of the American Society for Microbiology's webcast talk show, "ASM Live," regarding her research related to understanding the relationship between bacteria and obesity. The interview occurred on May 26, 2010.

► **Philip Mackowiak, MD**, professor & vice chair, Department of Medicine, co-authored a research paper which suggests that King Tut and his relatives may have suffered from a hormonal disorder that is similar to Antley-Bixler syndrome. Male sufferers can have distinctive physical features, including breasts and under-developed genitalia. Dr. Mackowiak's paper was featured in two online publications, *The Atlantic Wire* and FoxDC.com, on June 30, 2010. The articles may be accessed at www.theatlanticwire.com/features/view/feature/Who-Stole-King-Tuts-Phallus-1525/ and www.myfoxdc.com/dpps/news/mystery-of-king-tut-missing-penis-dpgoha-20100630-fc_8407470.



Philip Mackowiak, MD

Events, Lectures & Workshops

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

► **Michael R. Christy, MD**, assistant professor, Department of Surgery, travelled to Ecuador in February 2010 on a surgical mission with the Ecuadent Foundation as a volunteer plastic surgeon working with the Navy of Ecuador and Hospital San Vicente de Paúl, in the city of Pasaje (Province El Oro), Ecuador, treating 53 patients for burn scar contractures, cleft lip, cleft palate and congenital hand deformities. In addition, Dr. Christy presented at the 2010 Colombian 35th National Congress, or ACORL (Asociación Colombiana de Otorrinolaringología, Cirugía de Cabeza y Cuello, Maxilofacial y Estética Facial), in Barranquilla, Colombia, in May 2010. The work presented included studies on craniofacial ballistic trauma and management and the role of regenerative medicine in craniofacial trauma.

► **Robert Edelman, MD**, professor, Department of Medicine, and associate director for Clinical Research, Center for Vaccine Development, was a visiting professor delivering an invited lecture entitled "Experimental Challenge of Healthy Volunteers with Virulent *Plasmodium falciparum*: Safety and Efficacy Trials of an Attenuated Malaria Vaccine" at the Second Annual Symposium at the Canadian Center for Vaccinology at Dalhousie University in Halifax, Nova Scotia, Canada, in April 2010.

► **James B. Kaper, PhD**, professor and chair, Department of Microbiology & Immunology, presented "*Vibrio cholerae* and Cholera: Vaccine Development, TLR5 Activation and *in vivo* Gene Expression" at the Wellcome Trust Sanger Institute in Cambridge, United Kingdom, as part of the Wellcome Trust Advanced Course on the Molecular Basis of Bacterial Infection in May 2010.

Robert Koos, PhD

► **Robert Koos, PhD**, professor, Department of Physiology, presented *"HIF1's Role in Estrogen-induced VEGF Expression: Implications for both Normal and Pathological Cell Proliferation"* at the Society for the Study of Reproduction 43rd Annual Meeting in Milwaukee, Wisconsin, in July 2010. In addition, Dr. Koos will present *"Estrogen-induced VEGF Expression via HIF-1: Putting Vascular Hyperpermeability and Circulating Proteins into the Estrogen Action Pathway"* at the Symposium on Hormone Action in Endometrial Disorders at the 14th International Congress on Hormonal Steroids and Hormones & Cancer in Edinburgh, Scotland, in September 2010.

► **Stephen B. Liggett, MD**, professor, Departments of Medicine and Physiology, and associate dean for Interdisciplinary Research, presented "Evolution and Structure of Human Rhinoviruses as Determined from Full Genome Sequences" at the International Congress of Pediatric Pulmonology in Vienna, Austria, in June 2010.

► **Krystal Matthews**, a research technician in the Department of Microbiology & Immunology, presented a poster entitled "SARS-CoV Papain like Protease Ubiquitin like Domain and Catalytic Domain Regulate Antagonism of IRF3 and NFkB" at the 29th American Society of Virologists Annual meeting in Bozeman, Montana, in July 2010. Ms. Matthews works in the lab of **Matthew Frieman, PhD**, assistant professor, Department of Microbiology & Immunology.

Emmanuel Mongodin, PhD

► **Emmanuel Mongodin, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences, was an invited speaker at Stony Brook University and Brookhaven National Laboratory in New York on May 18, 2010. His lecture was entitled "Insights into the Complete Genomic Diversity of the Lyme Agent through Comparative Genomic Analysis of Borrelia sp. Isolates."

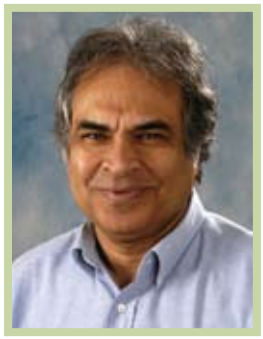
► **Kamal D. Moudgil, MD, PhD**, professor, Department of Microbiology & Immunology, chaired the session "Heat-shock Proteins and Infection in Autoimmunity" and presented "Defining the Immunological Basis of Differential Susceptibility to Autoimmune Arthritis" at the 7th International Congress on Autoimmunity in Ljubljana, Slovenia, in May 2010.

Kamal D. Moudgil, MD, PhD

► **Stefanie Vogel, PhD**, professor, Department of Microbiology & Immunology, presented "Distinct Roles of Alternatively Activated Macrophages in the Host Response to Bacterial and Viral Infection" at the 2010 Keystone Symposia meeting entitled "Innate Immunity: Linking with Adaptive Immunity" in Dublin, Ireland, in June 2010. In addition, Dr. Vogel was invited to speak at the American Association of Immunologists Advanced Graduate Course at the University of Minnesota in Minneapolis, Minnesota, in July 2010. She presented "Innate Immunity."

Publications

Hats off to those who have been published!



Abdu F. Azad, PhD

► **Abdu F. Azad, PhD**, professor, and **Joseph J. Gillespie, PhD**, research associate, both from the Department of Microbiology & Immunology, co-published an article entitled "Phylogenomics Reveals A Diverse Rickettsiales Type IV Secretion System" in the May 2010 issue of the *Journal of Infection & Immunity*. In addition, Dr. Azad, along with **Calvin Williams, MD, PhD**, graduate student, Department of Microbiology & Immunology, co-published "Transcriptional Analysis of the Pre-erythrocytic Stages of the Rodent Malaria Parasite, Plasmodium yoelii" in the April 2010 edition of *PLoS ONE*.

Curt Civin, MD

► **Curt Civin, MD**, professor, Department of Pediatrics, associate dean for research, and director, Center for Stem Cell Biology and Regenerative Medicine, co-published an article entitled "Mobile Interspersed Repeats Are Major Structural Variants in the Human Genome" in *Cell*, 25 June 2010, 141(7) pp. 1171-1182, and "2009 Landsteiner Lecture: CD34 Stem Cell Stories and Lessons from the CD34 Wars" in *Transfusion*, 2010; 50; 2040-2056.

John W. Cole, MD

► **John W. Cole, MD**, associate professor, Department of Neurology, co-published "Smoking and Stroke: The More You Smoke, the More You Stroke" in *Expert Review of Cardiovascular Therapy*, 2010 Jul;8(7):917-32.

► **Kenneth P. Johnson, MD**, professor emeritus, Department of Neurology, authored the book *"The Remarkable Story of Copaxone®: An Approach to the Treatment of Multiple Sclerosis*." The book discusses the discovery and development of Copaxone®, representing what may be one of the most successful transfers of technology from academia to industry. Further, it highlights how Copaxone® has become the most frequently prescribed relapsing–remitting multiple sclerosis, or RRMS therapy in the world. The book is available for purchase at www.Amazon.com.

► **James B. Kaper, PhD**, professor and chair, Department of Microbiology & Immunology, co-authored "Development of a Live Oral Attaching and Effacing *Escherichia coli* Vaccine Candidate Using *Vibrio cholerae* CVD 103-HgR as Antigen Vector" in *Microbial Pathogenesis*, January 2010, 48:1-8, "The LysR-type Transcriptional Regulator QseD Alters Type Three Secretion in Enterohemorrhagic *Escherichia coli* and Motility in K-12 Escherichia coli" in the *Journal of Bacteriologym* 2010 July;192(14):3699-712, and "Effect on Human Cells of Environmental *Vibrio parahaemolyticus* Strains Carrying Type III Secretion System 2" in *Infection and Immunity*, 2010 Jul;78(7):3280-7.

► **Ge Li, PhD**, postdoctoral fellow, Department of Pathology, and **Richard Y. Zhao, PhD**, associate professor, Institute of Human Virology and Departments of Pathology and Microbiology & Immunology, published an article in *PLoS ONE* on "HIV-1 Replication through hHR23A-mediated Interaction of Vpr with 26S Proteasome." They also co-authored "Cell Cycle G2/M Arrest through an S phase-dependent Mechanism by HIV-1 Viral Protein R" in *Retrovirology*.

Richard Y. Zhao, PhD

► **Stephen B. Liggett, MD**, professor, Departments of Medicine and Physiology, and associate dean for Interdisciplinary Research, co-authored a paper entitled "Common ADRB2 Haplotypes Derived from 26 Polymorphic Sites Direct Beta2-adrenergic Receptor Expression and Regulation Phenotypes," which was published online in the July 2010 issue of *PLoS ONE*.

► **Sebastien Morisot, PhD**, postdoctoral fellow, and **Ian M. Kaplan, BS**, graduate student, both from the Department of Pediatrics and Center for Stem Cell Biology and Regenerative Medicine, and **Curt I. Civin, MD**, professor, Depart-

Publications *continued*

ment of Pediatrics, associate dean for Research, and director, Center for Stem Cell Biology & Regenerative Medicine co-authored "High Frequencies of Leukemia Stem Cells in Poor Outcome Childhood Precursor B Acute Lymphoblastic Leukemias" in *Leukemia*, 26 August 2010, doi:10.1038/leu.2010.184


Sebastien Morisot, PhD

► **Fumiko Obata, PhD**, assistant professor, Department of Microbiology & Immunology, published a review article entitled "Influence of *Escherichichia coli* Shiga Toxin on the Mammalian Central Nervous System" in *Advances in Applied Microbiology*, Vol. 71 page 1-19, 2010. In addition, Dr. Obata, along with **Tom Obrig, PhD**, professor, Department of Microbiology & Immunology, co-published "Distribution of Gb3 Immunoreactivity in the Mouse Central Nervous System" in *Toxins* 2, 2010.


Graham Osborn, MSIV

► **Graham Osborn, MSIV**, published an article entitled "A Kalman Filtering Approach to the Representation of Kinematic Quantities by the Hippocampal-entorhinal Complex" in the June 8, 2010, online issue of the *Journal of Cognitive Neurodynamics*, with a print version to follow in the October/November 2010 issue. His article attempts to explain how people create a mental representation of space and time using two cortical areas, the hippocampus and the entorhinal complex, and predicts that these representations deform in a manner analagous to an elastic medium.

► **Yuko Ota, PhD**, assistant professor, Department of Microbiology & Immunology, co-authored "The Genome of the Western Clawed Frog Xenopus Tropicalis" in *Science*, 2010 April 30;328(5978):633-6.

► **Sayeed Rahman, PhD**, assistant professor, **Shane M. Ceraul, PhD**, assistant professor, and **Abdu F. Azad, PhD**, professor, all from the Department of Microbiology & Immunology, co-published an article entitled "Rickettsia Typhi Possess a Functionally Active Phospholipase A2 Homolog" in the *Journal of Bacteriology*, July 2010; 192: 3294 - 3303.


Shane M. Ceraul, PhD

► **Kari Ann Shirey, PhD**, research associate in the laboratory of **Stefanie Vogel, PhD**, professor, Department of Microbiology & Immunology, co-published "Control of RSV-induced Lung Injury by Alternatively Activated Macrophages is IL-4Ralpha-, TLR4-, and IFN-beta-dependent" in *Mucosal Immunology*, (2010) 3, 291–300. Other co-authors include **Achsah Keegan, PhD**, professor, Department of Microbiology & Immunology, and **Adam C. Puche, PhD**, associate professor, Department of Anatomy & Neurobiology.


Achsah Keegan, PhD

► **Scott Strome, MD**, professor and chair, **Koji Tamada, MD, PhD**, associate professor, and **Adrei Chapoval, PhD**, assistant professor, all from the Department of Otorhinolaryngology-Head and Neck Surgery, co-authored two articles, "B7-H1/CD80 Interaction Is Required for the Induction and Maintenance of Peripheral T Cell Tolerance" and "Human gd T lymphocyes Induce Robust NK Cell Mediated Cytotoxicity through Engagement of 4-1BB," that have been accepted in the scientific journal *Blood*.


Scott Strome, MD

► **Hervé Tettelin, PhD**, associate professor, Department of Microbiology & Immunology and Institute for Genome Sciences, co-authored an article entitled "Pyrosequencing-based Comparative Genome Analysis of the Nosocomial Pathogen *Enterococcus faecium* and Identifica-

Publications *continued*

Hervé Tettelin, PhD

tion of a Large Transferable Pathogenicity Island" in *BMC Genomics*, April 14, 2010, 11:239 [Epub ahead of print]. In addition, Dr. Tettelin co-authored "Identification of Protective and Broadly Conserved Vaccine Antigens from the Genome of Extraintestinal Pathogenic *Escherichia coli*" in the May 3, 2010, issue of the *Proceedings of the National Academy of Sciences of the United Stated of America* [Epub ahead of print] and "Simple Sequence Repeats and Genome Plasticity in *Streptococcus agalactiae*" in the May 21, 2010, issue of the *Journal of Bacteriology* [Epub ahead of print].

Li Zhang, PhD

► **Li Zhang, PhD**, associate professor, Department of Physiology, co-authored an article on his research team's recent study on the efficacy of Xigris as an anti-sepsis drug. The article was published in the May 2010 issue of the *Journal of Clinical Investigation*. Xigris or Activated Protein C (APC) is the only FDA-approved biotherapeutic drug for sepsis. APC is a natural anticoagulant protein that displays both anti-inflammatory and barrier protective activities, both of which are believed to contribute to its therapeutic efficacy. While endothelial barrier protection by APC has been studied extensively in the past decade, the mechanism underlying the anti-inflammatory activity of APC has remained elusive. Dr. Zhang and his team show that the anti-inflammatory activity of APC is dependent on integrin CD11b/CD18, protease activated receptor-1 and sphingosine-1-phosphate receptor. Most importantly, they show that intravenous delivery of APC substantially reduces the mortality of wild-type mice, but fails to protect CD11b-deficient mice, in a mouse model of sepsis. Discovery of this novel mechanism for the anti-inflammatory function of APC may help us improve the therapeutic efficacy of Xigris for severe sepsis patients in the future.

New Faculty

We welcome our new faculty!

► **Michael Garofalo, MD**, joined the Department of Radiation Oncology as an assistant professor in July 2010. Because of his reputation as an outstanding clinician, proven researcher at the national level and his vast experience in the biotech industry, the department believes him to be the ideal candidate for its newly established position of physician/scientist. His primary, long-term goal will be to link an experimental model of radiation-induced injury, led by **Tom MacVittie, PhD**, professor, Department of Radiation Oncology, to that of the department's nationally-recognized multidisciplinary thoracic and other clinical programs.

Michael Garofalo, MD

► **Navesh K. Sharma, DO, PhD**, joined the Department of Radiation Oncology as an assistant professor in August 2010, assuming the lead role of the department's gastrointestinal/lymphoma clinical, research and educational programs. He is experienced in the latest radiation modalities including intensity modulated radiation therapy, image guided radiation therapy and stereotactic body radiation therapy. Dr. Sharma has also been active in research endeavors during his pre- and post-doctoral training years. His clinical and research efforts have yielded over 10 publications, 20 national and international presentations and a patent application for a novel experimental method to study cancer cell invasion in the laboratory.

Navesh K. Sharma, DO, PhD

Dr. Sharma received his medical degree from the Kansas City University of Medicine and Biosciences in 2005 and completed his internship at Mercy Catholic Medical Center in 2006. He then completed his radiation oncology residency training at the Fox Chase Cancer Center in Philadelphia where he served as chief resident and received several research awards. Prior to enrolling in medical school, Dr. Sharma received a Doctorate of Philosophy in Anatomy and Cell Biology from the University of Iowa in 2000 with his research interest focused on preventing the metastasis of prostate cancer cells.

Grants & Contracts

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

► **Jerald Michael Bowers, PhD**, postdoctoral fellow, Department of Physiology, received a two-year $103,651 grant from the National Institute of Mental Health to support his research proposal "Estradiol, GABA and Developing Hippocampal Cells."

► **Ahleah Gustina PhD**, graduate student, Department of Physiology, received a two-year $46,000 predoctoral fellowship from the Mid-Atlantic Division of the American Heart Association to support her research proposal entitled "Elucidating the Molecular Mechanisms of Gating of HERG K+ Channels."

► **Liang Fang PhD**, postdoctoral fellow, Department of Physiology, received a two-year $82,000 postdoctoral fellowship from the American Heart Association's Mid-Atlantic Division to support his research proposal entitled "Differential Regulation of ROMK by the Hypertension Related WNK-SPAK Signaling Pathway."

► **Ricardo A. Feldman, PhD**, associate professor, Department of Microbiology & Immunology, received a three-year $290,000 grant from the March of Dimes for "Generation of iPS Cells for Modeling and Treating the Neuronopathic Forms of Gaucher Disease."

Michael Donnenberg, MD

► **James B. Kaper, PhD**, professor and chair, Department of Microbiology & Immunology, was awarded a five-year $7.5 million U19 grant from the National Institutes of Allergy and Infectious Diseases for "Severe Enteric Disease: Pathogenesis and Response." This multi-project grant will investigate important clinical, pathogenesis and host response issues of severe enteric disease caused by diarrheagenic *Escherichia coli* and *Shigella* species. Additional project leaders include **Michael Donnenberg, MD**, professor, Department of Medicine, and **Alessio Fasano, MD**, professor, Department of Pediatrics, and director, Mucosal Biology Research Center. Other aspects of this program include microbiome and bacterial genomics studies conducted by **David Rasko, PhD**, assistant professor, Department of Microbiology & Immunology and Institute for Genome Sciences. The research also will utilize clinical specimens and isolates from the Gates Foundation-funded Global Enterics Multi-Center Study, or GEMS, directed by **Myron M. Levine, MD, DPTH**, professor, Departments of Medicine and Pediatrics, and director, Center for Vaccine Development. The NIH has funded this University of Maryland group along with three other U.S. academic institutions to form the Enterics Research Investigational Network (ERIN) to investigate various aspects of enteric disease.

Miriam K. Laufer, MD, MPH

► **Miriam K. Laufer, MD, MPH**, assistant professor, Department of Pediatrics and Center for Vaccine Development, received a four-year $5.5 million grant for "Clinical Trial of Chloroquine Weekly or as IPT to Prevent Malaria in Pregnancy in Malawi" as part of the National Institute of Allergy and Infectious Diseases Clinical Trial Implementation Cooperative Agreement. The overall goal of this study is to establish the optimal strategy for administering antimalarial medication to prevent pregnancy-associated malaria and avoid its detrimental effects on mothers and newborns.

Margaret M. McCarthy, PhD

► **Margaret M. McCarthy, PhD**, professor, Department of Physiology, and associate dean for Graduate Studies, received a five-year $1,875,000 grant from the National Institute of Mental Health to support her research proposal "Prostaglandins and Cerebellum Development."

► **Sandra McCombe Waller, PhD, PT, NCS**, associate professor, Department of Physical Therapy & Rehabilitation Science, received a one-year $81,270 National Institute of Child Health and Human Development recovery act administrative supplement to parent grant R21HD052125 for her project entitled "Combining Proximal and Distal Arm Training for Patients with Chronic Hemiparesis."

► **Andrea Meredith, PhD**, assistant professor, Department of Physiology, received a two-year $386,132 R21 grant from the

Andrea Meredith, PhD

Grants & Contracts *continued*

National Institute of Diabetes and Digestive and Kidney Diseases to support her research proposal "Intrinsic Circadian Rhythms in Bladder."

► **Mark W. Rogers, PT, PhD, FAPTA**, professor and vice chair for research, Department of Physical Therapy & Rehabilitation Science, received a five-year $750,000 National Institute on Disability and Rehabilitation Research (NIDRR) training grant entitled "University of Maryland Advanced Neuromotor Rehabilitation Research Training (UMANRRT)."

Scott Thompson, PhD

► **Scott Thompson, PhD**, professor, Department of Physiology, received a one-year $50,000 Maryland Technology Development Corporation grant funded under its University Technology Development Fund to support his research proposal "Ethosuximide: Relief for Patients with Central Pain Syndrome?"

► **Vladimir Y. Toshchakov, PhD**, assistant professor, Department of Microbiology & Immunology, received a five-year $1,875,000 National Institutes of Health grant for his proposal entitled "Deciphering the Architecture of TLR Signaling Complexes."

► **Jill Whitall, PhD**, professor, Department of Physical Therapy & Rehabilitation Science, received a one-year $99,999 Maryland Industrial Partnership Phase I project with Encore Path, Inc. for her work entitled "Further Development and Testing of the TREADTRAC."

Jill Whitall, PhD

► **Richard Y. Zhao, PhD**, associate professor, Institute of Human Virology and Departments of Pathology and Microbiology & Immunology, and **Olga Ioffe, MD**, professor, Department of Pathology, received a one-year $100,000 Maryland Industrial Partnership award for "Clinical Study on Processing Cancer Tissues." Dr. Zhao also received a second $100,000 Maryland Industrial Partnership award for the Phase II study of "A Rapid and Sensitive Flu Test."

Faculty can search the School of Medicine's online database of award and membership opportunities at http://medschool.umaryland.edu/awards/, which is provided by the Faculty Excellence Recognition and Awards Committee, or FERAC.

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
Medical & Research Technology: Cynthia Stambach
Medicine: Molly Lutz
Microbiology & Immunology: Teri Robinson
Neurology: Paula Gilley
Neurosurgery: Terry Roberts
Obstetrics, Gynecology & Reproductive Sciences: Chris Whitley
Ophthalmology: Nancy Cook
Orthopaedics: Mary Zadnik Newell
Otorhinolaryngology: Bryan Ambro
Pathology: Carmen Wooden
Pediatrics: Bonnie Winters
Pharmacology & Experimental Therapeutics: Anne Nourse
Physical Therapy & Rehabilitation Science: Caelie Haines
Physiology: Ken Fahnestock
Psychiatry: Vee Porter-Brown
Radiation Oncology: Jill Rosenberg
Surgery: NO DESIGNEE
Program in Comparative Medicine: Deborah Sanchez
Program in Complementary Medicine: Harry Bosk
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
Program in Trauma: Cynthia Rivers
Center for Health Policy & Health Services Research: Shiraz Mishra
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
Center for Vascular & Inflammatory Diseases: Vanessa Foreman
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 Information Services: Jim McNamee
Office of Policy & Planning: Claudia Baquet
Office of Faculty Affairs & Professional Development: Stacie Small
Office of Public Affairs: Heather Graham Phelps
Office of Student Affairs: Dawn Roberts
Office of Student Research: Jordan Warnick
Office of Research & Graduate Studies: Tom Hooven

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