

P R O F E S S I O N A L E N H A N C E M E N T N E W S L E T T E R

Keeping You Connected

Awards and Honors

Anatomy & Pathology

Sasha Zill is spending his second summer as a DFG (Deutsche Forschungsgemeinschaft, German Research Foundation)-sponsored visiting professor at the Universities of Bielefeld and Cologne in Germany.

Darshana Shah has been selected to participate on the Association of American Medical Colleges (AAMC) Group on Women in Medicine & Science (GWIMS) Communications Subcommittee.

Pharmacology, Physiology & Toxicology

Piyali Dasgupta's research involving diabetic retinopathy was featured on WOWK-TV, the CBS affiliate for Charleston-Huntington, W.Va., Channel 13, on January 14, 2012. Her paper, "MG624, an $\alpha 7$ -nAChR antagonist, inhibits angiogenesis via the Egr-1/FGF2 pathway," from *Angiogenesis*, was featured on the website LeadDiscovery.

Gary Rankin was a finalist for the 2012 Pharmaceutical Manufacturers Association (PhRMA) Award in Excellence in Pharmacology/Toxicology.

Nalini Santanam was invited to join the American Heart Association Special Taskforce for Scientific Classifications, March-April 2012.

Grants Received

Anatomy & Pathology

Darshana Shah received \$2,000 in funding from The Arnold P. Gold Foundation to create and develop a chapter of the Gold Humanism Honor Society (GHHS) at the JCESOM.

Thinking ahead to bring the best in everything we do...

Former JCESOM dean Charles H. McKown Jr. once said, "If you are not thinking five years ahead, you will be ten years behind." During changing times in higher education and healthcare, the School of Medicine is moving forward because of the dedication and enthusiasm of its faculty, students and staff. As we are finding ways to improve and advance medical education, we remain committed to training physicians who care for patients with respect and compassion, and researchers who continue to exemplify scientific integrity.

This issue of PEN highlights programs and accomplishments which demonstrate that by thinking ahead, together, we can create a better future for our students and our patients.

Darshana Shah

Orthopaedics

Franklin D. Shuler received \$25,000 for "Biomimetic Nanofiber Scaffolds Seeded with Adipose-derived Stem Cells for Rotator Cuff Injury Repair," as part of the Marshall-UK Clinical and Translational Science Award (CTSA), December 2011.

Pharmacology, Physiology & Toxicology

Richard Egleton received \$20,000 (funded) to study "Circulating microRNA and vascular dysfunction in diabetes" from the Cell Differentiation and Development Center Internal Grant Program.

Multidisciplinary

Jingwei Xie and **Pier Paolo Claudio** are each recipients of the first \$25,000 grants awarded through the Joint Pilot Research Program set up by Marshall and the University of Kentucky as part of their Clinical and Translational Science Award (CTSA) partnership. The program, which is funded by the National Institutes of Health

(NIH), is aimed at speeding the time for laboratory discoveries to benefit patients. Xie, who will collaborate with **Franklin D. Shuler**, will use his award to develop a method that may improve surgical repair of rotator cuff injuries. Claudio will help develop an assay that will potentially allow the development of personalized treatment for lung cancer. Claudio will collaborate with Rolf Craven of the University of Kentucky Department of Molecular and Biomedical Pharmacology.

Professional Milestones

Biochemistry & Microbiology

Pier Paolo Claudio has received two U.S. Provisional Patent Applications, "Methods and composition for site-selective Mda-7/IL24 gene delivery" and "Methods of screening chemotherapeutic agents and treating cancer."

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Wade Douglas leads Multicultural Advisory Council



Wade G. Douglas, M.D., joined the Department of Surgery as an assistant professor and as a specialist in surgical oncology and head and neck surgery at the ECCC in 2005. Now associate professor, he serves as residency program director for the Department of Surgery. He is chair of the JCESOM and Cabell Huntington Hospital Colorectal Screening Task Force, director of the ECCC Tissue Procurement Facility, and surgical oncology consultant for the VA Medical Center, among other duties. He is also a member of the West Virginia Cancer Genomics Network, established to analyze cancer DNA here in West Virginia.

Dr. Douglas studied biology at Florida A&M University, and received his medical degree from the University of Florida College of Medicine in Gainesville. He completed his residency at Morehouse School of Medicine, and a fellowship in surgical oncology and head and neck surgery at Roswell Park Cancer Institute in Buffalo, N.Y. While at Roswell, he focused on techniques of minimally invasive cancer surgery.

His research interests include the feasibility of robotics for surgical oncology; lymph node mapping of patients with squamous cell carcinoma of the oral cavity; and molecular characterization of normal squamous epithelial and squamous carcinoma cells of the upper aerodigestive tract.

Dr. Douglas is serving as chair for the newly established Multicultural Advisory Council (MAC). This council, made up of faculty, staff, residents and students, will guide the institution in promoting inclusive excellence.

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H.D. Yu, R.M. Niles, X. Wang and K.D. Dillon have filed a patent for "Culture medium and methods for producing alginate from stable mucoid strains of *Pseudomonas aeruginosa* (PCT/US12/21071)," January 2012.

Philippe Georgel was chair and co-organizer of the Workshop on Next Generation Sequencing and Bioinformatics in Huntington, W.Va., October 27, 2011. He was also the co-organizer of the Cell Differentiation and Development Center Symposium, "Epigenetic Regulation of Gene Expression and Bioinformatics," held at Marshall University on March 23, 2012.

Endocrinology

Abid Yaqub was appointed program director for the Endocrinology and Metabolism Fellowship, Department of Medicine, after serving as the associate director for five years, July 2011.

Family & Community Health

John Parker was elected and installed as president-elect of the West Virginia Academy of Family Physicians at its annual meeting in Charleston, W.Va., March 29-April 1, 2012.

Orthopaedics

Ali Oliashirazi was course chairman for "Controversies and Technological Advances in Primary and Complex Primary

Hip and Knee Replacement" at the Annual Marshall University Arthroplasty Course, May 18-20, 2012. He is also vice president of the Cabell County Medical Society.

With the assistance of **Franklin D. Shuler**, MU Orthopaedics was selected as a study site for TRUST: Trial to evaluate UltraSound in the Treatment of tibial fractures. This was a Prospective Randomized Multicenter Trial.

Franklin D. Shuler held, "How Healthy are Your Bones," Community Service – free osteoporosis, balance and blood pressure screenings, free at home fall risk assessments, January 2012.

Pharmacology, Physiology & Toxicology

Piyali Dasgupta was invited to serve as an external examiner for A.T. Jolayemi's doctoral thesis entitled, "Studies on Some Pharmacological Properties of Capsicum Frutescens-derived Capsaicin in Experimental Animal Models," University of KwaZulu-Natal, Durban, South Africa. Dasgupta is a member of the American Society of Investigative Pathology.

Journal Reviewers

Anatomy & Pathology

Maria A. Serrat reviews manuscripts for the Journal of Applied Physiology; Proceedings of the National Academy of Sciences, USA; and American Journal of Physiology: Regulatory, Integrative and Comparative Physiology.

Biochemistry & Microbiology

Pier Paolo Claudio is a reviewer for numerous journals, and is an editor for Journal of Experimental & Clinical Cancer Research; International Journal of Biomedical Science; Drugs News and Perspectives; Drugs of Today; Drugs of the Future; Journal of Experimental & Clinical Cancer Research; and Current Signal Transduction Therapy.

Philippe Georgel is on the editorial board of Frontiers in Cellular and Infection Microbiology, and is associate editor for Biochemistry and Cell Biology. He reviewed three manuscripts for Nucleic Acids Research, one for Biochimica Biophysica Acta, and one for Biochemistry and Cell Biology.

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Endocrinology

Abid Yaqub is a reviewer for *Annals of Internal Medicine*, the official journal of the American College of Physicians.

Internal Medicine

Lynne Goebel is an associate editor of the *West Virginia Medical Journal*.

Orthopaedics

Franklin N. Shuler is an associate editor of the *West Virginia Medical Journal*, serving on the Publications Review Committee, January 2012.

Pediatrics

Aaron McGuffin became a reviewer for *Academic Medicine* in 2012.

Pharmacology, Physiology & Toxicology

Piyali Dasgupta reviews manuscripts for *Journal of Virological Methods* and *Recent Patents on Anti-Cancer Drug Discovery*.

Lawrence M. Grover reviews manuscripts for *Hippocampus*.

Gary Rankin reviews manuscripts for: *Drug Metabolism and Disposition*; *ISRN Toxicology*; *Journal of Pharmacology and Experimental Therapeutics*; *Journal of Toxicology and Environmental Health*; *Toxicology*; and *Toxicology Research*

Nalini Santanam reviews manuscripts for *Atherosclerosis*; *Journal of Nutrition and Metabolism*; *Brain Research*; *Life Sciences*; *Cardiology Research and Practice*; *PLOS One*; and *Cardiology Research and Practice*.

Grant Review Activity

Anatomy & Pathology

Maria A. Serrat reviews grants for Graduate Women in Science National Fellowship Program, April 2012.

Biochemistry & Microbiology

Pier Paolo Claudio is a grant reviewer for the Italian government Ministry of Research (MIURC), 2012.

Philippe Georgel reviews grants for CancerCare, Manitoba, Canada.



Role of obesity and cancer is research focus of Travis Salisbury

Molecular biologist Travis Salisbury, Ph.D., has been an assistant professor in the Department of Pharmacology, Physiology and Toxicology since 2009.

Dr. Salisbury has special interests in hormone signaling and a specific ligand-activated transcription factor known as the aryl hydrocarbon receptor (AHR) which plays roles in environmental toxicity, endocrine disruption and carcinogenesis. Recently he obtained a grant from The Pharmaceutical Research and Manufacturers of America Foundation (PhRMA) to further investigate the potential role of the AHR in obesity and cancer. The findings of this work are relevant to human health, given the recognition that

obesity increases human risk for several different types of cancers, including breast cancer.

He is a graduate of Kent State University, where he earned his doctorate in physiology. He received postdoctoral training as a research fellow in the field of molecular endocrinology at Case Western Reserve School of Medicine and Washington State University in the departments of pharmacology and molecular biosciences, respectively.

He is a member of the American Society for Pharmacology and Experimental Therapeutics and the Society of Toxicology. Recently he presented his research at the Experimental Biology Meeting; the Society for Toxicology Meeting; and the Gordon Conference, Cellular and Molecular Mechanisms of Toxicity. He also lectures in medical pharmacology and general toxicology, and was presented with the 2011 Faculty Award by Marshall BMS graduate students.

Vincent E. Sollars reviews grants for West Virginia IDeA Network of Biomedical Research Excellence Pilot Grant Program, Spring 2012; Bankhead-Coley Cancer Research Program managed by the Florida Department of Health, Spring 2012; and James and Esther King Biomedical Research Program managed by the Florida Department of Health, Spring 2012.

Vincent E. Sollars is on the *ISRN Genetics* journal editorial board beginning March 2012, and has been on the *Frontiers in Epigenomics* journal editorial board since January 2011.

Hongwei Yu is an ad hoc study section member for Cystic Fibrosis Research and Translation Core Centers, National

Institute of Diabetes and Digestive and Kidney Diseases (NIDDK)/National Institutes for Health (NIH).

Pharmacology, Physiology & Toxicology

Piyali Dasgupta was invited by Oak Ridge Associated Universities (ORAU) to serve as a reviewer for Pennsylvania Department of Health (PA DOH) grant applications in the section "Nicotine Effects on Lung Cancer Promotion: From Cells to Patients."

Richard Egleton is a grant reviewer for the American Heart BRAIN CL 1 Peer Review Study Group, April 2012, and a reviewer for University of Kentucky CCTS Pilot Grants.

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Richard Niles leads team in investigating melanoma

Richard M. Niles, Ph.D., is professor and chair of the Department of Biochemistry and Microbiology, and senior associate dean for research and graduate education. He has served on the Dean's Advisory Committee since 1992, and is CEO and founding member of Progenesis Technologies, LLC, a Marshall University-associated research and development company established to demonstrate the feasibility of manufacturing genetically-engineered bacterial alginates on an industrial scale for a competitive price.



He has served on and chaired many grant review panels for the NIH, the DoD Breast Cancer Research Program, the DoD Prostate Cancer Research Program and the American Institute for Cancer Research. He is the principal investigator of a \$9.2 million Center of Biomedical Research Excellence grant from the NIH. In 1995, he was appointed to the executive committee for the American Institute for Cancer Research (AICR) Annual Conferences.

He received his bachelor of science degree in biology from Rhode Island College; his master of science degree in botany from the University of New Hampshire; and his doctorate in plant pathology and biochemistry from the University of Massachusetts-Amherst. In 2009 he was awarded the Graduate Faculty Achievement Award from the Biomedical Sciences Graduate Student Organization in recognition of teaching and mentoring excellence.

With the rapid increase in the incidence of melanoma, especially in the under 40-year-old population, Dr. Niles's major research interest is investigating the mechanism by which dietary constituents such as vitamin A, resveratrol (red wine), quercetin (apples), etc., arrest growth of melanoma cells and prevent melanocytes from being converted to melanoma cells.

SOM hosts AAMC nationwide simulcast

JCESOM hosted its first Association of American Medical Colleges (AAMC)-sponsored TEDMED Conference, held in Washington, D.C., on April 10-13. More than 150 AAMC-member institutions nationwide hosted this live conference, allowing participants to see every session, every speaker and every performance taking place on the TEDMED stage in real time, even submitting questions and comments directly to the stage.

Conference speakers included global leaders from science, research, technology, academia, business, government and the arts. JCESOM participants found the live simulcast to be inspirational and "life-changing."

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Gary Rankin was a reviewer for the NIH Special Emphasis Panel, National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), March 2012.

Nalini Santanam reviews grants for the American Heart Association Cardiovascular Committee 2B.

Monica A. Valentovic is a study section grant reviewer for NIH National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), March 30, 2012.

Invited Presentations

Anatomy & Physiology

Sasha Zill was invited to the University of Bielefeld, May 2011, and the University of Koeln, July 2011, both in Germany, to present a talk entitled "Active sensing of force and load in the stick insect leg."

Pharmacology, Physiology & Toxicology

Piyali Dasgupta was invited to co-chair a minisymposia entitled, "Modeling Cancer: Biological and Therapeutic Implications," organized by the American Society of Investigative Pathology, Experimental Biology Conference, 2012.

Piyali Dasgupta, Jamie K. Lau, Kathleen. C. Brown, Haitao Luo and Yi C. Chen presented "Nicotine induces the up-regulation of alpha-7-nicotinic receptors ($\alpha 7$ -nAChRs) in human squamous cell lung cancer cells via transcriptional mechanisms" at the Experimental Biology Conference in San Diego, April 21-25, 2012.

Richard Egleton was invited to speak on "Metabolic syndrome and the blood brain barrier" at the Symposium on Prevention of Metabolic Syndrome by Dietary Phytochemicals at the Department of Food Science at The Pennsylvania State University, September 28, 2011; "Alzheimer's treatment: What's in the discovery pipeline?" at the JCESOM and Cabell Alzheimer's minisymposium on March 19, 2012; and "Cerebrovascular dysfunction in diabetes: Does circulating micro RNA play a role?" at the Marshall University Cell Differentiation and

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Development Center Symposium on Epigenetic Regulation of Gene Expression and Bioinformatics, March 2012.

Rebecca Furby*, Preeya Shah, Aileen Marcello, Carla Cook, **Richard Egleton** and **Nalini Santanam** spoke about "Circulating miRNA's regulating insulin signaling in Type 1 diabetic Rat model" at the Annual Biomedical Research Conference for Minority Students (ABRCMS), St. Louis, Nov. 9th -12, 2011. [*Recipient of FASEB-MARC Travel Award for presenting at ABRCMS and recipient of ASBMB-FASEB summer research fellowship.]

Preeya Shah, Rebecca Furby, Aileen Marcello, Carla Cook, **Richard Egleton** and **Nalini Santanam** presented "Circulating miRNA's regulating angiogenesis signaling in Type 1 diabetic Rat model" at the Annual Biomedical Research Conference for Minority Students (ABRCMS), St. Louis, Nov. 9 -12, 2011.

Lawrence M. Grover was invited to present a lecture at the West Virginia Sleep Society meeting to be held in Parkersburg, W.Va., Oct. 12-13, 2012.

Gary O. Rankin spoke about "Choosing a Career" to Learning Assistants in Biology, March 28, 2012.

Travis Salisbury was invited to speak on "Adipocyte/cancer cell interactions are connected to aryl hydrocarbon receptor signaling" at West Virginia State University, February 2012.

Nalini Santanam spoke about "Fat biomarkers from the WV-Appalachian Heart Study" at the 20th South Eastern Lipid Research Conference (SELRC), Callaway Gardens, Pine Mountain, Ga., Oct. 6th -8th, 2011.

Nalini Santanam was invited to speak at the South Eastern Lipid Research Conference, Callaway Gardens, Pine Mountain, Ga., Oct 6- 8, 2011. She was also invited to speak at the Nutritional Sciences Seminar Series, University of Kentucky, Lexington, March 27, 2012. Courtney Crain, Carla Cook, Jia Fei and **Nalini Santanam** presented "Obesity



Introducing our new team members!
Dr. Brian Dzwonek, associate dean; Dr. Shelvy L. Campbell, director of diversity; and Leah Clark Payne, director of public affairs.

related markers in catalase transgenic mice" at the Society of Free Radical in Biology & Medicine 18th Annual Meeting, Atlanta, Nov. 16-20, 2011.

Christopher Adams*, Carla Cook, Todd Gress, Nepal Chowdhury, Elliot Setser, Andrew Mccunu, Kevin Johnson, **Paulette Wehner** and **Nalini Santanam** presented "Sex differences in Epicardial fat biomarkers-WV Appalachian Heart study," at the West Virginia Chapter of the American College of Cardiology, Nov. 22, 2011. [*Winner of the best poster award and selected to present in the national ACC meeting.]

Books & Book Chapters

Anatomy and Pathology
Darshana Shah and Elizabeth Armstrong. "From Freedom to Learn to Freedom to Innovate: The Harvard Macy Institute Story." In: Enhancing the professional culture of academic health science centers:

The interplay among education leaders, their programs, and the organizational environment. Accepted for publication, 2012.

Biochemistry & Microbiology

P.P. Claudio and **R.M. Niles**, editors. Nutrition and Cancer, from Epidemiology to Biology. Bentham Science Publishers. Accepted in press, 2012.

Paraskevi Vogiatzi, Maria Irene Scarano, **Pier Paolo Claudio**. Chapter 14, "Epigenetic Targets and Drug Development." In: Cancer Epigenetics: Biomolecular Therapeutics in Human Cancer. John Wiley and Sons Ltd., March 2012.

Allison Wolf and **Pier Paolo Claudio**. Chapter 9, "Isothiocyanates target carcinogenesis during tumor initiation, promotion, and progression." In: Nutrition and Cancer, from Epidemiology to Biology. Bentham Science Publishers. Accepted in press, 2012.

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Vincent E. Sollars, book chapter, "Epigenetics as a Mechanism for Dietary Fatty Acids to Affect Hematopoietic Stem/Progenitor Cells and Leukemia - Royal Jelly for the Blood." In: Nutrition and Cancer, from Epidemiology to Biology. Editors: **Pier Paolo Claudio** and **Richard M. Niles**. Brussels, Bentham Science Publishers, 2012.

Aaron W. Schrey, Christina L. Richards, Victoria Meller, **Vincent Sollars**, Douglas M. Ruden. The Role of Epigenetics in Evolution: The Extended Synthesis, Genetics Research International. Hidawi Publishing Corporation, New York, N.Y. Edited book, 2012.

J. Adam Hall and **Philippe T. Georgel**. Book chapter, "The worlds of splicing and chromatin collide." In: Techweb.org, 2011.

Internal Medicine

Tae Hoon Lee, W. Ray Kim, John J. Poterucha. Book chapter, "Evaluation of Elevated Liver Enzymes." In: Approach to Consultations for Patients with Liver Disease. W.B. Saunders, 2012.

Orthopaedics

J. Salava and **A. Oliashirazi**. Book Chapter, "Blood Loss in Total Knee Arthroplasty." In:

The Knee Reconstruction, Replacement and Revision, available Summer 2012.

Franklin D. Shuler, consultant on Shattered Bones: True Survival Stories by Sandra Markle. Learner Publications Company, 2011.

Franklin D. Shuler and M. Schmitz. Chapter 2 in: Miller's Review of Orthopaedics, Sixth Edition. M.D. Miller, editor. W.B. Saunders Company. Accepted in press, 2012.

Pharmacology, Physiology & Toxicology

Jamie K. Lau, Kathleen C. Brown, Aaron M. Dom, **Piyali Dasgupta**. "Capsaicin: Potential Applications in Cancer Therapy." Nutrition and Cancer. **P.P. Claudio** and **R.M. Niles**, editors. Bentham Science Publishers, March 14, 2012.

R.M. Niles and **G.O. Rankin**. Resveratrol, a chemistry with a multitude of anti-cancer activities." Nutrition and Cancer. **P.P. Claudio** and **R.M. Niles**, eds. Bentham Science Publishers, March 14, 2012.

Peer-Reviewed Publications

Anatomy & Pathology

Sasha Zill, A. Büschges, J. Schmitz. "Encoding of force increases and decreases by tibial campaniform sensilla in the stick insect, *Carausius morosus*."

Journal of Comparative Physiology, 197:851-867, 2011.

Biochemistry & Microbiology

Michael S. Gossman, Indra J. Das, Subhash C. Sharma, Candace M. Howard, Jeffrey P. Lopez, **Pier Paolo Claudio**. "Mouse tumor dose assessment from megavoltage x-ray radiation using various detectors with simulation comparisons." Health Physics Journal, 101(6):746-753, 2011.

R. Dash, B. Azab, X.N. Shen, U.K. Sokhi, S. Sarkar, Z.Z. Su, X.Y. Wang, **P.P. Claudio**, P. Dent, I.P. Dmitriev, D.T. Curiel, S. Grant, D. Sarkar, P.B. Fisher. "Developing an effective gene therapy for prostate cancer: New technologies with potential to translate from the laboratory into the clinic." Discovery Medicine, January 2011.

A. Cortese, M. Savastano, G. Savastano, **P.P. Claudio**. "One-step transversal palatal distraction and maxillary repositioning: technical considerations, advantages, and long-term stability." Journal of Craniofacial Surgery, September 2011.

A. Greco, M. Mancini, S. Gargiulo, M. Gramanzini, **P.P. Claudio**, A. Brunetti, M. Salvatore. "Ultrasound biomicroscopy in small animal research: applications in molecular and preclinical imaging."

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Honor Society to promote tradition of the caring doctor

A group of third year medical students has been instrumental in bringing a chapter of the Gold Humanism Honor Society (GHHS) to the JCESOM. Marshall is one of 99 chapters that have joined GHHS since its inception only a decade ago. Many thanks to Bi Mo, Gordon McLemore, Blake Epling, Stephen Roy, Amy Roy, Joanie Garrett, Matt Christiansen and Hilary Hott for their efforts.

In addition, a Marshall team made up of the chapter advisor, a student and a resident will participate in the Biennial 2012: Building on a Decade of Humanism in Action to be held in Chicago on October 4-6. This event will offer participants an opportunity to network with colleagues committed to patient-centered, compassionate care.

GHHS chapters are a part of The Arnold P. Gold Foundation, whose mission is to perpetuate the tradition of the caring doctor by emphasizing the importance of the relationship between the practitioner and the patient. The objective is to help physicians-in-training become doctors who combine the high tech skills of cutting edge medicine with the *high touch* skills of effective communication, empathy and compassion. Students and faculty at 94 percent of American allopathic and osteopathic schools now participate in at least one Gold Foundation program.

With the long tradition of community service held by the faculty, students and staff of the JCESOM, bringing the GHHS chapter to campus will offer opportunities for medical students, residents and faculty to explore new ideas and approaches and to develop meaningful ways to connect to patients and their families.

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Journal of Biomedicine and Biotechnology. E-pub Oct. 25, 2011.

Monia Taranta, Ilaria Naldi, Settimio Grimaldi, Laura Salvini, **Pier Paolo Claudio**, Francesca Rocchio, Alex F. Munoz, Stefano Prete, Caterina Cinti. "Magnetically driven bioreactors as new tools in drug delivery." *Bioanalysis and Biomedicine*, Sept. 5, 2011.

Pierpaolo Aimola, Mara Di Benedetto, Marco Carmignani, Anna Rita Volpe, Luigi Claudio, Erik J. Tokar, Adrie van Bokhoven, Michael P. Waalkes, **Pier Paolo Claudio**. "Cadmium induces p53-dependent apoptosis in human prostate epithelial cell lines." *PlosOne*, March 2012.

R. Nande, A. di Benedetto, P. Aimola, F. de Carlo, M. Carper, **Pier Paolo Claudio**. "Targeting a Newly Established Spontaneous Feline Fibrosarcoma Cell Line by Gene Transfer." *PLoS ONE*, May 30, 2012.

G. Ion, T. Witte, J. Akinsete, W. Patterson, J.E. Wilson, J. Fahrman, J.A. Hall, A. Abbas, J. , Denvir, W.E. Hardman, **P.T. Georgel**. "Potential epigenetic contributions associated with maternal diet lead to a decreased incidence of breast cancer in female offspring." Abstract submitted to *Biochemistry and Cell Biology for the International Asilomar Chromatin and Chromosome Conference*, December 2011, publication in June 2012.

F.H. Damron, J.P. Owings, Y. Okkotsu, J.J. Varga, J.R. Schurr, J.B. Goldberg, M.J. Schurr, **H.D. Yu**. "Analysis of the *Pseudomonas aeruginosa* Regulon Controlled by the Sensor Kinase KinB and Sigma Factor RpoN." *Journal of Bacteriology*, March 2012.

N. Liao, Y. Yin, G. Sun, C. Xiang, D. Liu, **H.D. Yu**, X. Wang. "Colonization and Distribution of Segmented Filamentous Bacteria (SFB) in Chicken Gastrointestinal Tract and Their Relationship with Host Immunity." *FEMS Microbiology Ecology*, March 19, 2012. [E-pub ahead of print].

Wei-ping Zeng, Vincent E. Sollars, Andrea Del Pilar Belalcazar. Primary research publication: "Domain requirements for the diverse immune regulatory functions of foxp3." *Molecular Immunology*, 48:1932-1939, 2011.

Endocrinology

A. Yaqub, M.I. Choudhry, J.C. Wheaton, T.W. Gress. "Post Ablative Hypothyroidism." *West Virginia Medical Journal*, March-April, 2011.

T.H. Lee, **A. Yaqub**, J. Norweck, M. Ahmed. "A case of esophageal stricture after radioactive iodine-131 ablation." *Endocrine Practice*, Jan. 9, 2012.

Y. Masannat, R. Gandhi, R. Kheetan, O. Olajide, **A. Yaqub**. "Chorea associated with thyrotoxicosis." *Thyroid*, November 2011.

A. Taddesse, **A. Yaqub**. "Clinical, sonographic and cytological evaluation of small versus large thyroid nodules." *Journal of Pakistan Medical Association*, May 2011.

Internal Medicine

Srinivasarao Thulluri, **Miaozong Wu**, **Eric R. Blough**, D. Nandini, P.K. Manne, Ashley B. Litchfield, Bin Wang. "Regulation of Iron-Related Molecules in the Rat Hippocampus: Sex-and Age-Associated Differences." *Annals of Clinical and Laboratory Science*, Spring 2012.

Orthopaedics

W.P. Barrett, J.B. Mason, J.T. Moskal, D.F. Dalury, **A. Oliashirazi**, D.A. Fisher. "Comparison of Radiographic Alignment of Imageless Computer-Assisted Surgery vs. Conventional Instrumentation in Primary Total Knee Arthroplasty." *Journal of Arthroplasty*, December 2011.

Franklin D. Shuler was a contributor to "Outcomes assessment in the SPRINT (Study to Prospectively Evaluate Reamed Intramedullary Nails in Patients with Tibial Fractures)" Multicenter tibial fracture trial: Adjudication committee size has trivial effect on trial results." *Journal of Clinical Epidemiology*, 64(9):1023-1033, 2011. He also contributed to "Economic evaluation of reamed versus unreamed intramedullary nailing in patients with

closed and open tibial fractures: results from the Study to Prospectively Evaluate Reamed Intramedullary Nails in patients with Tibial Fractures (SPRINT). *Value in Health*, 14:450-457, 2011.

Franklin D. Shuler, J. Conjeski. "Improving bone health in West Virginia: The World Health Organization FRAX® Assessment Tool." *West Virginia Medical Journal*, September/October 2011.

Franklin D. Shuler, J.M. Conjeski, R. Hamilton. "Incorporation of the World Health Organization FRAX assessment tool into nursing practice." *American Journal of Nursing*, August 2011.

Pediatrics

Heidi Lewis, **James Lewis**. "Safe and effective methylphenidate therapy in a pediatric patient with glaucoma." *Attention Deficit and Hyperactivity Disorders*, 4:1, 2012. Note: Heidi Lewis is a 2011 JCESOM graduate who is currently a resident in radiology at Tampa General Hospital.

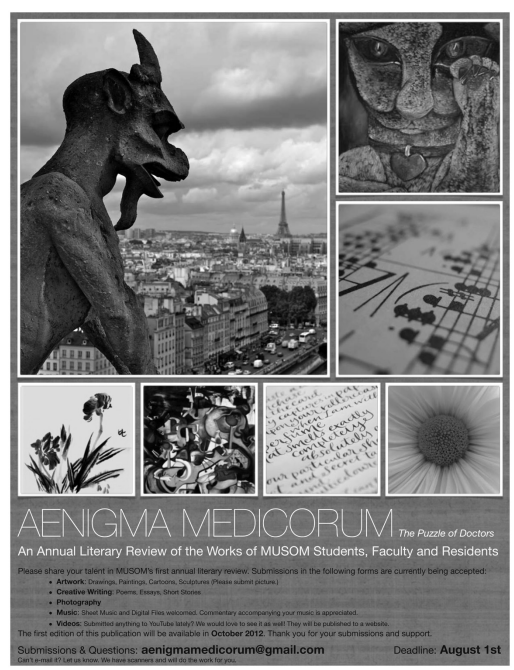
Rohit Aswani, **Maria G. Lopez-Marti**. "Use of daptomycin in neonates: a case report and review of the literature." *Journal of Pediatric Infectious Diseases*, March 7, 2012.

Kathleen C. Brown, Jamie K. Lau, Aaron M. Dom, Theodore R. Witte, Haitao Luo, Clayton M. Crabtree, Yashoni S. Shah, Brandon S. Shiflett, Aileen J. Marcelo, Nancy A. Proper, Wanda E. Hardman, **Richard D. Eggleton**, Yi C. Chen, Elsa I. Mangiaruia, Piyali Dasgupta. "MG624, an $\alpha 7$ -nAChR antagonist, inhibits angiogenesis via the Egr-1/FGF2 pathway." *Angiogenesis*, 15(1): 99-114, 2012.

H. Luo, **G.O. Rankin**, N. Juliano, B.H. Jiang, Y.C. Chen. "Kaempferol inhibits VEGF expression and in vitro angiogenesis through a novel ERK – NF κ B-cMyc-21 pathway." *Food Chemistry* 130: 321-328, 2012.

Nalini Santanam, Nino Kavatradsze, Ana Murphy, Celia Dominguez, Sampath Parthasarathy. "Antioxidant supplementation reduces endometriosis related pelvic pain in humans." *Translational Research*, 2012 (in press).

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Students to showcase creativity in *Aenigma Medicorum*

The first annual MUSOM literary and art review, *Aenigma Medicorum*, is now accepting original artwork, creative writing, photography, music and videos by MUSOM faculty, students and staff. This student-driven project was initiated through the Multicultural Advisory Council (MAC).

The deadline for submissions is August 1, with publication in October. If you have any questions about this great new venture, please e-mail aenigmamedicorum@gmail.com.

create!

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Nalini Santanam. PPAR Research, 2012 (special issue, invited review, in press).

Jia Fei, Carla Cook, **Nalini Santanam**. "ω-6 lipids regulate PPAR turnover via reciprocal switch between PGC-1α and ubiquitination." *Atherosclerosis*, 2012 (e-pub ahead of print).

Meera Penumetcha, **Nalini Santanam**. "Nutraceuticals as Ligands of PPARγ." (2012)

Psychiatry & Behavioral Medicine

A. Lambert, T. Gress, **M.C. Veitia**. "Teaching the art of medicine: A changing portrait in today's medical schools." *West Virginia Medical Journal*, November 2011.

Multidisciplinary

Yulia Dementieva, J. Denvir, L. Wei, **Donald A. Primerano, T. L. Green, P. Wehner**, M. R. Flood, D. Calica, B. Freeman, M. Huff, S. Dodson, C. Hill, A. Francis, K. McIntyre, R. Kreisberg, S. Warren, H. Blackwood, M. Davis, H-M Lee. "Identification of genes contributing to cardiovascular disease in overweight and obese individuals

from West Virginia." *West Virginia Medical Journal*, 108: 23-31, 2012.

International Meeting Presentations

Biomedical Sciences

Pier Paolo Claudio presented three invited lectures about his research at the National Cancer Institute and the CEINGE Institute in Naples, Italy, and at the meeting, "Fragment of history: Seminar on the oral medicine of the past and of the future," in Sorrento, June, 2012.

Pharmacology, Physiology & Toxicology

Gary O. Rankin gave a presentation in May 2012 at BIT's Fifth Annual World Conference in Beijing about his research in resveratrol, conducted in cooperation with **Monica A. Valentovic** and funded by a grant from the NIH. He led a scientific session, "Cancer rehabilitation, nutrition and management of cancer related complications." Prior to the meeting, Rankin visited the School of Biosystems Engineering and Food Science at Zhejiang University in Hangzhou, China, where

he gave a seminar about his work in the field of chemical-induced injury to the kidney. Rankin was accompanied on the trip by Dr. Yi Charlie Chen, an associate professor of biology at Alderson-Broadus College. Both Rankin and Chen are lead researchers in the West Virginia IDEa Network of Biomedical Research Excellence, a federally funded program to help build biomedical research expertise across the state. Rankin is the principal investigator of the project and Chen is on the steering committee.

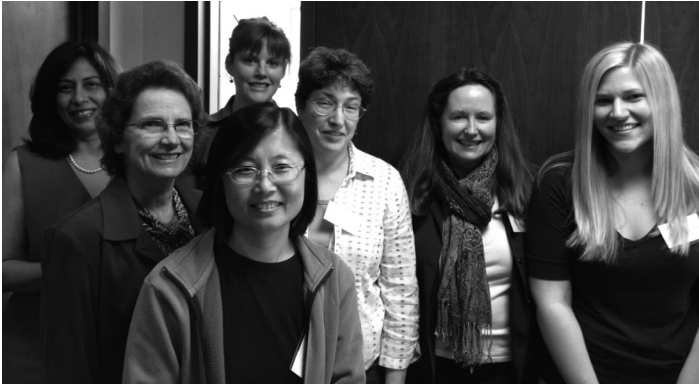
Nalini Santanam, Caitlin Kocher, Carla Cook, Brenda Dawley. "Pain Sensitive miRNAs in women with endometriosis. Plenary presentation at the World Congress on Endometriosis, Montpellier, France, Sept. 5-7, 2011.

Nalini Santanam, Johannes Fahrman, Courtney Crain, Carla Cook, Holly King, Brenda Dawley. "Oxidized lipids and pain in endometriosis." *World Congress on Endometriosis, Montpellier, France, Sept 5-7, 2011.*

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WIMS forum offers women an opportunity to network

The WIMS Inaugural Leadership Forum, held May 16-17 in the Cabell Huntington Hospital Board Room, gave junior and senior faculty, along with several second and third year medical students, an opportunity to gain insight into workplace strengths and weaknesses and discuss career issues.



WIMS Executive Council: Faculty members Darshana Shah, Elaine Hardman, Jung Han Kim and Kathleen O'Hanlon; MU Advance Liaison Beverly Delidow; medical students Shawndra Thompson (AMWA) and Miranda Carper (Graduate Student Organization). Not shown are Paulette Wehner, Shirley Neitch and Shawn A. McKinney.



Forum attendees take a break to smile for the camera.



Future women professionals, from left: Rachel Edwards, Kathryne Blair, and Miranda Carper. Edwards said the forum opened her eyes to some of the challenges other female physicians have faced. Carper was provided with mechanisms she can use to be a successful researcher, and appreciated the opportunity to gain advice from mentors she respected.



Junior faculty, from left: Piyali Dasgupta, assistant professor of pharmacology and Maria Guadalupe Lopez-Marti, assistant professor of pediatrics. Dasgupta appreciated the tools in the seminar that emphasized how to deal with daily challenges, accept changes in your career path and not get burned out while achieving goals. She said the seminars have given her skills to achieve better 'work-life-balance.' Lopez-Marti found the workshop extremely practical in raising her self-awareness about personal and career issues and increase her networking capabilities. She found it a great experience to get to know new role models within the institution.

Beverly Delidow, *not pictured*, found it helpful to step back and think about how and why you got where you are, and what you'd like to do next. "We have a lot of dynamic and accomplished women at Marshall," Delidow said.

WIMS

Translational Genomic Research Institute focuses on applying biomedical research directly to patient care



From left, Robert C. Nerhood, Marshall President Stephen J. Kopp and Charles H. McKown. *Photo by Rick Hays/Marshall University.*

The Charles H. McKown, M.D., Translational Genomic Research Institute, located on the top floor of the Edwards Comprehensive Cancer Center, was dedicated in a ceremony on Dec. 6. Completed in the summer of 2011, the institute has 10,500 square feet of research space. In addition to studying ways to apply biomedical research directly to patient care, researchers will work to identify specific genes responsible for various cancers.

Academy of Medical Educators

The Academy of Medical Educators welcomes its incoming class, and wishes the best to the outgoing academy graduates.

Academy Candidates Class of 2012-2013

Master Educator candidates:

Paul B. Ferguson, Neuroscience
Maria G. Lopez-Marti, Pediatrics
April Kilgore, Pediatrics
Thomas Dougherty, Pathology
Julie A. Phenco, Psychiatry
Jose Mario Fontanilla, Internal Medicine
Tamara Gravano, Physical Therapy
Yi Po Chiu, Physical Therapy

Teaching Scholar Candidates:

Baraa Alabd Alrazzak, Pediatrics
Jessica Granger, Obstetrics & Gynecology



Academy Graduates Class 2011-2012

From left: Mohammad Ebraheem, Amanda Pauly, Sarah Price, Dana Ellen, Darshana Shah, Penny G. Kroll, Wesam A. Bolkhair

Continued from Page 8

National Meeting Presentations

Multidisciplinary

Dana Eilen, Joan C. Viksjo and Darshana Shah have submitted, "Multidisciplinary Perceptions of the Efficacy of Physician to Physician Transition of Care: Current Practice and Changes in Perceptions Post Policy Intervention," to the American Academy on Communication in Healthcare (AACH) Research and Teaching Forum, October 2012 in Rhode Island.

Anatomy & Pathology

Maria A. Serrat, Rebecca M. Williams. "Large molecule delivery to the growth plate increases with limb temperature measured by in vivo multiphoton imaging." Poster presentation at Experimental Biology Meeting, San Diego, April 21-25, 2012. Serrat was also a poster judge at the American Physiological Society Scholander Competition held at the Experimental Biology meeting in San Diego during that time.

Sasha N. Zill, S. Chaudhry, A. Büschges and J. Schmitz presented, "Discrete sensory encoding of force increases or decreases in the stick insect leg," and M.A. Klein, A.E. Brown, W. Li, **Sasha N. Zill**, R. Quinn and R.E. Ritzmann presented "Biological observation and robotic modeling to understand leg control in the cockroach *Blaberus discoidalis*" at the Society for Neuroscience Meeting, Nov.12-16, 2011, in Washington, D.C. Zill also presented two posters, both of which examined how signals from sense organs of the legs are used in the control of walking movements. The first study presented a new model for integration of sensory feedback within the frame of reference of the plane of leg movement, done both in Huntington and in Germany with Dr. Josef Schmitz of the University of Bielefeld and Dr. Ansgar Bueschges of the University of Cologne. They used morphological data from studies by Sumaiya Chaudhry, a Marshall sophomore, using the confocal microscopy facility of the Biomedical Sciences program. The second study successfully tested elements of the model in a robotic leg equipped

with strain gauges, representing the collaborative work with engineers and students at the Biorobotics Laboratory at Case Western Reserve University.

Biochemistry & Microbiology

Philippe T. Georgel presented, "Potential epigenetic contributions associated with maternal diet lead to a decreased incidence of breast cancer in female offspring." International Asilomar Chromatin and Chromosome Conference, Asilomar, Pacific Grove, Calif., December 7, 2011.

Philippe T. Georgel. "Novel interactions between two similar chromatin remodelers contribute to a phenotypical switch in mouse salivary gland." International Asilomar Chromatin and Chromosome Conference, Asilomar, Pacific Grove, Calif., December 8, 2011.

Philippe T. Georgel. "Chromatin Stability at low concentration depends on histone octamers saturation levels." 20th International AUC Conference, San Antonio, March 27-31, 2012.

Philippe Georgel, Theodore Witte, William Patterson, Johanness Fahrman, J. Adam Hall, Joan Wilson, W. Elaine Hardman. "Epigenetic events mediated by maternal consumption of omega 3 fatty acids lead to the reduction of breast cancer risk in offspring." Abstract submitted for the NCI Symposium on Chromosome Biology: Chromosome Structure and Function, Bethesda, Md., November 1-2, 2011.

J.A. Hall, N.L. Adkins, **P.T. Georgel**, D.J. Culp. "Novel interactions between two similar chromatin remodelers contribute to a phenotypical switch in mouse salivary gland." Abstract submitted to Biochemistry and Cell Biology for the International Asilomar Chromatin and Chromosome Conference, December 2011; publication in June 2012.

Thomas A. Hagerman, Qiang Fu, James Denvir, Stuart Lindsay, **Philippe T. Georgel**. "Chromatin stability at low concentration depends on histone octamers saturation levels." Abstract submitted for the 20th International AUC Conference, San Antonio, March 27-31, 2012.

Biochemistry & Microbiology

J. Denvir, **Donald A. Primerano**, G. Boskovic, J. Fan, J. H. Kim. "Potential Susceptibility Variants for Obesity and Type 2 Diabetes in the TALLYHO Mouse." Association of Biomolecular Resource Facilities Annual Meeting, March 18, 2012.

Endocrinology

S. Faiz, Y. Gebregiorgis, **N. Santanam**, T.W. Gress, Abid Yaqub. "Association of serum Adiponectin with post-menopausal hypertension in lean and obese women." 93rd Annual Meeting of the Endocrine Society, Boston, June 2011.

Y. Masannat, T. Hassan, S. Kanooz, T.W. Gress, **Abid Yaqub**. "Prevalence and characteristics of metabolic syndrome in patients admitted to an inpatient psychiatry unit." 20th Annual Meeting of the American Association of Clinical Endocrinologists, San Diego, April 2011.

Geriatrics

Suraj Shah, Guillermo Madero, Shawn Maynard and **Shirley M. Neitch** won first prize with their poster, "A Driving Assessment Clinic: Structure and Statistics," in the case studies and clinical innovations category at the 2012 American Geriatrics Society Annual Scientific Meeting held in Seattle, May 2-5. Shah, a medical resident, presented the poster. Geriatrics won the West Virginia Geriatric Society poster competition for second time on a row.

Orthopaedics

Franklin D. Shuler. "Incorporation of FRAX into current nursing practice." 31st NAON Congress, Baltimore, May 2011. He also was keynote speaker at the Women's Philanthropy Society on March 3, 2012.

Pharmacology, Physiology & Toxicology

Kathleen. C. Brown, Jamie K. Lau, Aaron M. Dom, Brandon S. Shiflett, Theodore R. Witte, Wanda E. Hardman, Haitao Luo, Yi C. Chen, Betts Carpenter, **Piyali Dasgupta**. "The alpha-7-nicotinic receptor antagonist induces robust apoptosis in human SCLC" Experimental Biology Conference, San Diego, April 21-25, 2012. They also gave a special session, "Highlights: Graduate Student Research in Pathology," and an

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oral presentation at the mini-symposia, "Combating Cancer Through Improved Diagnosis and Therapeutics, both held by the American Society of Investigative Pathology.

Clay M. Crabtree, Aaron M. Dom, Jamie K. Lau, Kathleen C. Brown, Brandon S. Shiflett, Theodore R. Witte, Wanda E. Hardman, **Piyali Dasgupta**. "Capsaicin induces apoptosis in human small cell lung cancer via the TRPV pathway." Experimental Biology Conference in San Diego, April 21-25, 2012, and an oral presentation at the mini-symposia "Pulmonary Pathobiology" held by the American Society of Investigative Pathology.

Aaron M. Dom, Kathleen C. Brown, Jamie K. Lau, Theodore R. Witte, Wanda E. Hardman, Haitao Luo, Yi C. Chen, **Piyali Dasgupta**. "MG624, an $\alpha 7$ -nicotinic receptor antagonist inhibits angiogenesis in human small cell lung cancer." Experimental Biology Conference, San Diego, April 21-25, 2012, and at an oral "blitz presentation" at the Blood Vessel Club held by the American Society of Investigative Pathology.

Aaron M. Dom, Kathleen C. Brown, Jamie K. Lau, Theodore R. Witte, Wanda E. Hardman, Haitao Luo, Yi C. Chen, **Piyali Dasgupta**. "MG624, an $\alpha 7$ -nicotinic receptor antagonist inhibits angiogenesis in human small cell lung cancer." Experimental Biology Conference, San Diego, April 21-25, 2012, and an oral presentation at the mini-symposia, "To Grow or Not to Grow," held by the American Society of Investigative Pathology.

Jamie K. Lau, Kathleen C. Brown, Clayton M. Crabtree, Aaron M. Dom, Adam W Buckley, Jarrod C. Harman, **Piyali Dasgupta**. "Tobacco components activate the acetylcholine signaling pathway in bronchioalveolar carcinoma." Experimental Biology Conference, San Diego, April 21-25, 2012, and an oral presentation at the mini-symposia, "Modeling Cancer: Biological and Therapeutic Implications" held by the American Society of Investigative Pathology.

Gary O. Rankin, T. Ferguson, S. Baksi, D. Anestis, C. Racine. "4-Amino-2-chlorophenol nephrotoxicity in vitro: alteration of cytotoxicity by antioxidants." Experimental Biology Conference, San Diego, April 21-25, 2012.

C. Racine, T. Ferguson, S. Baksi, D. Anestis, **G. Rankin**. "Mechanistic aspects of 4-amino-2-chlorophenol nephrotoxicity in vitro," from Toxicologist, 126(1): 261, 2012. Society of Toxicology annual meeting, San Francisco, March 11-15, 2012.

Travis Salisbury, Ateeq Chaudry, Gary Morris. "The aryl hydrocarbon receptor plays a role in mediating Adipocyte/Breast Cancer Cell Interactions." Experimental Biology Conference, San Diego, April 21-25, 2012.

Travis Salisbury, Rebecca Jones, Melinda Hodge, Ateeq Chaudry, Gary Morris presented, "Interactions between the aryl hydrocarbon receptor and adipocyte regulation of breast cancer cell growth." Society for Toxicology meeting, San Francisco, March 11-15, 2012.

Christopher Adams*, Carla Cook, Todd Gress, Nepal Chowdhury, Elliot Setser, Andrew Mcunu, Kevin Johnson, Paulette Wehner, **Nalini Santanam**. "Sex differences in Epicardial fat biomarkers—West Virginia Appalachian Heart study." National American College of Cardiology Conference, Las Vegas, Jan. 11, 2012.

Jia Fei, Carla Cook, **Nalini Santanam**. "Altered Micro RNA regulation of adipose tissue function with aging." Gordon Research Conference on Aging, Ventura, Calif., Feb. 12-17, 2012.

Jia Fei, Anne Wheaton, Christopher Ennis, Carla Cook, Sampath Parthasarathy, **Nalini Santanam**. "Overexpression of Catalase Negates the Beneficial Effects of Dietary Lipids on Plasma Triglycerides and APOA1/C3/A5 Levels." Arteriosclerosis, Thrombosis and Vascular Biology (ATVB) Scientific Sessions, Chicago, Ill., April 18-20, 2012.

Joanna Ponder Skinner, Nicole Dingels, **Nalini Santanam**, Meera Penumetcha. "Ratio of primary to secondary oxidation products and time of exposure correlate

with lipid accumulation in murine adipocytes." Experimental Biology San Diego, April 21-25, 2012.

Monica Valentovic spoke at the Society of Toxicology Annual Meeting in San Francisco, focusing on her lab's work to evaluate ways to reduce the side effects of cancer chemotherapeutic drugs. In addition, she presented at the Experimental Biology Conference in San Diego, where she discussed her work to examine the mechanisms for reducing cancer chemotherapy adverse effects to the kidney, research funded by the NIH. She served as chairman of the meeting's Renal Toxicology Session, March 2012.

Monica A. Valentovic, Amber Mills, Andre Benja Lamyathong, John G. Ball, Stephanie Van Meter, Michael Wright, J. Mike Brown. "The Natural Product Resveratrol Reduces Cisplatin Mediated Oxidative Modifications of Proteins and Oxidative Stress Enzyme Activity in Renal Tissue of Rats." Society of Toxicology meeting, San Francisco, March 2012.

Monica A. Valentovic, Amber M. Mills, Andre B. Lamyathong, John G. Ball, Stephanie Van Meter, Michael Wright, J. Mike Brown. "Resveratrol Reduces Cisplatin Mediated Oxidative Stress Modifications of Proteins and Oxidative Stress Enzyme Activity in Renal Tissue of Rats." Experimental Biology, April 2012.

J. Mike Brown, Andre. B. Lamyathong, John. G. Ball, Stephanie Van Meter, Michael S. Wright, Amber Mills, **Monica A. Valentovic**. "Novel Protective Mechanisms for Acetaminophen (APAP) Hepatic Toxicity by S-Adenosyl-L-methionine (SAME)." Society of Toxicology meeting, San Francisco, March 2012.

Pulmonary

Mumtaz U. Zaman. "A Rare Presentation of Hemoptysis Due to Crospovidone Crystal Deposition in a Bronchus." Abstract and poster presentation. American Thoracic Society International Conference, San Francisco, May 21, 2012.

Urology

Lawrence M. Wyner. "Captain Lord's

Continued on Page 14

Marshall Research Day Winners

Marshall University hosted its 24th Annual Research Day on March 19. Please visit the following link for information about their topics. musom.marshall.edu/news/Upload/2012resdaywinners.pdf



Tilahun Belay
Resident, Internal
Medicine
Poster Clinical Vignette



Richard G. Irwin
MSII
Educational Research



Andrea Lauffer
Resident, MedPed
Oral Presentation
Clinical Vignette



Laura Thompson
MSIV
Oral Clinical Science



Kimberly Weaver
MSII
Poster, Clinical Science

Not pictured:
Allyson Wolf
Graduate Student
Poster, Basic Science

The Third Annual Hematology/Oncology Update

for the Primary Care Physician attracted more than 68 people, including 13 residents and eight medical students, to the ECCC on April 27. The day-long event provided health care professionals with an update on breast cancer screening, lung cancer screening, approaches to difficult benign hematological cases, and other cancer-related issues pertinent to a generalist's practice. Visiting physicians Roy E. Smith, with the University of Pittsburgh Medical Center, and Kevin McDonagh, with the University of Kentucky's Markey Cancer Center, lectured, as did Andrew Freeman, Lynne Goebel, Anmir Hussain, Rajesh Sehgal and Maria Tirona, all with the JCESOM. Tirona, chairwoman of the planning committee, said planning for next year's event is already underway. Event sponsors included the School of Medicine, the ECCC and Cabell Huntington Hospital.

Hematology/Oncology Update for the Primary Care Physician



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Uremia." History of Urology Forum, 107th Annual American Urological Association Convention, Atlanta, May 21, 2012.

Regional Meeting Presentations

Biochemistry & Microbiology

Vincent E. Sollars. "A Bioinformatics Approach to Leukemia." Next Generation Sequencing and Bioinformatics Forum at Marshall University, October 27, 2011.

Vincent E. Sollars. "A Role for HSP90 in Transgenerational Epigenetics and Phenotypic Plasticity." Annual Cell Development and Differentiation Center at Marshall University, March 23, 2012.

J. Hall, H. Han, **P.T. Georgel.** "Document retrieval to identify evidence of protein roles. Abstract submitted for Undergraduate Research Day at the Capitol, Charleston, W.Va., January 2012.

Endocrinology

Adam Maghrabi, Tipu Saleem, **Abid Yaqub.** "Utility of Estimated Total Body Composition in Diagnosis of Obesity in Post Menopausal Women." Presented at Seventh Annual Center for Clinical and Translational Science Spring Conference, March 2012, Lexington, Ky.

Adam Maghrabi, **Abid Yaqub,** Tipu Saleem. "The impact of automated protocol in management of diabetic ketoacidosis." Seventh Annual Center for Clinical and Translational Science Spring Conference, March 2012, Lexington, Ky.

Adam Maghrabi, **Abid Yaqub,** Tipu Saleem. "The impact of automated protocol in management of diabetic ketoacidosis." American College of Physicians (ACP) West Virginia Chapter Annual Meeting, October 2011, Roanoke, W.Va.

Adam Maghrabi, Omar Akhtar, **Abid Yaqub,** Tipu Saleem. "Hemiballism-Hemichorea: a rare manifestation of Diabetic Ketoacidosis." American College of Physicians (ACP) West Virginia Chapter Annual Meeting, October 2011, Roanoke, W.Va.

S. Faiz, Y. Gebregiorgis, N. Santanam, T.W. Gress, **Abid Yaqub.** "Association of serum Adiponectin with post menopausal hypertension in lean and obese women." Sixth Annual Center for Clinical and Translational Science Spring Conference, April 2011, Lexington, Ky.

V. Garla, **Abid Yaqub,** L. Goebel. "Pattern of vitamin D response and supplementation in a university setting." American College of Physicians (ACP) West Virginia Chapter Annual Meeting, October 2011, Roanoke, W.Va.

Internal Medicine

Lynne Goebel. "Patterns of Vitamin D response and follow up in a university practice setting." Abstract presented at the West Virginia Geriatric Society Meeting, Oct. 21, 2011, Charleston, W.Va. She also was a judge for the poster competition at the West Virginia American College of Physicians Meeting, Oct. 21, 2011.

G. Yousef, **L. Goebel.** "Surprising cause of purpura in an anticoagulated patient." Abstract presented at the West Virginia Geriatric Society Meeting, Charleston, W.Va., Sept. 25, 2011,

Orthopaedics

Ali Oliashirazi. "State of the Union." West Virginia Orthopaedic Society, April 2012.

Jonathan Salava, Tom Riley, **Ali Oliashirazi.** "Constraining function as a simple tool of reducing operating room traffic in a total joint room." Podium presentation. West Virginia Orthopaedic Society, April 2012.

Psychiatry

B. Kidd, M. Sweiss, L. Uradu, **M.C. Veitia.** "Project P.R.E.M.E.D. at Marshall University Joan C. Edwards School of Medicine: A Unique Approach to nurturing minority student interest and ultimate acceptance to medical school." Group on Student Affairs Joint Regional Meeting, March 2012.

Staff, Student & Resident Accomplishments

Anatomy & Pathology

Rebekah K. Sine, Morgan L. Efaw, **Alison R. Williams,** Maria A. Serrat.

"Effects of Omega-3 Fatty Acids on Bone Development." Poster presentation by Rebekah Sine (Alderson-Broaddus College) at the 9th Annual Undergraduate Research Day at the West Virginia Capitol, Charleston, W.Va., January 26, 2012. Sine presented research conducted in Serrat's lab during the 2011 summer INBRE program at Marshall University.

Biomedical Sciences

Biomedical sciences doctoral candidate **Johannes Fahrman** presented his research to explore the effects of omega-3 fatty acids in early stage chronic lymphocytic leukemia at the American Society for Investigative Pathology ASIP Annual Meeting at the Experimental Biology Conference in San Diego, April 2012. Fahrman works in the lab of W. Elaine Hardman.

Mike Brown, a biomedical sciences doctoral candidate working in Monica Valentovic's lab, presented at the mid-March Society of Toxicology Annual Meeting in San Francisco. He discussed his research examining ways to reduce liver damage caused by acetaminophen use.

Aaron Dom, an MS1 student, presented some of his research at the Experimental Biology Conference in San Diego, April 2012. Both oral presentations were selected for the same abstract, "MG624, an alpha7-nicotinic receptor antagonist, inhibits angiogenesis in human small cell lung cancer." Presentation 1 was in "To Grow or Not to Grow," and Presentation 2 was a "blitz" presentation for the Blood Vessel Club. Both sessions were hosted by the American Society for Investigative Pathology.

Orthopaedics

"Extraskeletal effects of Vitamin D: potential impact," and "Antibiotic-Like Actions of Vitamin D," co-authored by **Sammy Hodroge, Adam Short, Josh Hendrix, Dana Lycans, Elias Salloum,** members of the JCESOM Medical Student Orthopaedic Interest Group, have been accepted for publication in the West Virginia Medical Journal. The articles are scheduled to publish in July/August 2013.

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Pharmacology, Physiology & Toxicology

Undergraduate student **Clayton M. Crabtree**, working with Piyali Dasgupta, was awarded the Sigma Xi Grants-in-Aid Research Grant from NASA (2012-2013) for his research proposal entitled, "Alpha7-Nicotinic Receptor Antagonists in Retinal Angiogenesis." (Budget: \$1,800).

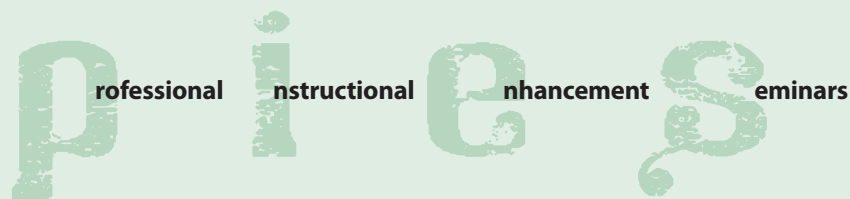
Rebecca Furby, a senior from Shepherd University and a Marshall SRIIMS fellow for summer 2011, was the recipient of the MARC-ASBMB (American Society for Biochemistry and Molecular Biology) and MARC-FASEB (Federation of American Societies for Experimental Biology) award for research she performed at **Nalini Santanam's** laboratory. Furby presented her research at the ABRCMS Annual Conference held at St. Louis. [MARC stands for Maximizing Access to Research Careers.]

Christopher Adams, first year cardiology fellow, presented and won first prize for the best poster presentation in both regional and national conferences held by the American College of Cardiology. He was one of only 12 cardiology

fellows in the United States selected to present his work to the Board of Governors of the American College of Cardiology Conference held in Las Vegas in February 2012. Adams presented the research, "Perivascular Fat Biomarkers and Corresponding Echocardiographic Evidence: WV-Appalachian Heart Study," that he contributed to in collaboration with Nalini Santanam's laboratory. This study was supported by the NIH-funded WV-INBRE supplement grant.

Other

Joan C. Viksjo presented her paper, co-written with Academy member Wesam Bolkhair, Nesreen BenHamed and Kelly Schrapp, "Improving the Feedback Process and Medical Student Performance: An Exploratory Study," at the 23rd Annual Ethnographic and Qualitative Research Conference, Cedarville University, Cedarville, Ohio, on June 3, 2011. The abstract was published in the Conference's Proceedings. Viksjo is also a doctoral student in higher education administration at Marshall University.

**On Wheels**

The primary goal of PIES, a faculty development series, is to foster and sustain a collegial community of lifelong learners capable of meeting the present and future challenges of academic medicine.

In order to meet your professional development needs and maximize participation, the Office of Faculty Affairs has introduced a new delivery model: PIES on Wheels. We will come to your department and customize the session to meet your needs at the time most convenient to you. We will still keep the activities open to all; however, for that session your department will be our home. We encourage you to enroll in one of the various professional and institutional enhancement seminar series.

For more information about PIES, please visit the web site at musom.marshall.edu/fdp/pies.asp.

Flags

*I am pointed
by the red flag
towards danger, perhaps...
an exanthem turned enanthem,
a marrow awakened at night,
a fever-stiffened neck,
an inappropriate touch.*

*Once inside,
the green flag
signals everyone.
I am symptomatically
engaged in battle,
an historic examiner,
searching for signs
of imminent death.*

*Do I need to raise
the blue flag?
A call for oxygen
to the gasps of the cyanotic
for fluids to the
cold and unperfused
vasodilated in vicious cycle
by a circulating enemy?*

*Or can I move with caution
the yellow flag
yielding more time,
for more information,
to gather blood or
peer through bone
and increase my certainty
of the origin of this war?*

*By the end of this day,
the white flag
is raised half-mast, perhaps...
to one lost in the fight
wounded beyond victory
despite the protection
of a doctor fully surrendered.*

Aaron Michael McGuffin, M.D.
Poem published in the
February 2012 Archives of
Pediatrics and Adolescent Medicine.
Photo by MUSOM graphic designer
David Kendall.

C O N T A C T I N F O R M A T I O N

Darshana Shah, Ph.D.

Professor of Pathology
Associate Dean, Office of Faculty Affairs
& Professional Development
Marshall University Joan C. Edwards School of Medicine
1600 Medical Center Drive
Huntington, WV 25701
304.691.8638 | shah@marshall.edu



Jenny Drastura, M.A.J.

Co-editor, Office of Faculty Affairs
& Professional Development
Marshall University Joan C. Edwards School of Medicine
1600 Medical Center Drive
Huntington, WV 25701
304.691.8638 | drastura@marshall.edu
pen@marshall.edu