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Dept. of Pathology Website:
www.path.uab.edu

Newsletter E-Mail:
pathinfocus@uab.edu

Message from the Chair



The Department of Pathology is in the midst of extensive faculty recruitment efforts that have challenged the organizational skills of faculty and administration alike. The last week of April alone had five applicants interviewing for faculty positions ranging from Assistant to Full Professor as well as candidates for Director positions in the Molecular and Cellular Pathology Division and the nascent

Division of Informatics. This burst of activity reflects both the high regard with which faculty positions in our department are held and the significant priority that I have placed on faculty recruitment in 2010.

Recruiting new faculty requires substantial effort by our faculty, staff and students and I wish to thank all of you for your tremendous support. I have received many positive comments from faculty candidates regarding the

professionalism and good will displayed during their visits to Birmingham and I am convinced that Southern hospitality is alive and well at UAB. The quality of the applicants has been outstanding and I look forward to multiple new appointments in 2010.

Best wishes,
Kevin A. Roth, M.D., Ph.D.

Where are They Now?

From the Pathology Residency Program



Sarah M. Bean, M.D.

Dr. Sarah Bean completed her residency training at UAB in June of 2006. She had received her M.D. degree from the University of Rochester in Rochester, New York in 2002. While in medical school, she completed a Post-Sophomore Fellowship in Pathology at the University of Rochester. Dr. Bean began her AP/CP residency training at UAB in 2002 and was Chief Resident in Anatomic Pathology in 2004-2005. In 2004-05, she also had a Cytopath Fellowship,

after which she completed her last year of residency training. When asked about her favorite memory from her residency days at UAB, Dr. Bean said that she always enjoyed lunch with colleagues and mentors, exchanging ideas and discussing the next exciting research project.

Currently, Dr. Bean is an Assistant Professor of Pathology at Duke University Medical Center in Durham, North Carolina, specializing in cytopathology, GYN surgical pathology, and breast surgical pathology. In 2009, she received Duke's Bernard F. Fetter Teaching Award in Pathology for excellence in teaching residents and fellows. Her interests include HPV, EUS-FNA, gynecological, and breast

pathology. She is a Fellow in ASCP and CAP, and a CAP Laboratory Inspector. In addition, she is active in the American Society of Cytopathology, the Papanicolaou Society of Cytopathology, the American Society of Colposcopy and Cervical Pathology, and the International Society of Gynecological Pathology. Dr. Bean lives in Apex, North Carolina, with her husband, Dr. Brian Cook, and their baby daughter, Anna, born last September.

Faculty Profile: Marisa Marques, M.D.



Dr. Marisa Marques is Professor of Pathology in the Division of Laboratory Medicine. She is Section Head of

Transfusion Medicine, Hemostasis (Coagulation), and Immune Cytopenia.

She came to UAB in 1994, with her husband, Edison Goncalves, an endocrinologist in private practice, and their two sons, Felipe and Ricky.

After internal residency training at the Federal University of Rio Grande do Sul (Brazil), as well as fellowship training at the Laboratory of Clinical Investigation at the NIH, the Division of Infectious Disease at the Beth Israel Hospital (Boston), and the Channing Laboratory at Harvard Medical School, she joined the Department of Pathology at UAB, as a resident in anatomic and clinical pathology, and she was Chief Resident in Laboratory Medicine. Her residency was followed by a fellowship in hematopathology. She is currently board-certified in AP/CP, Hematology, and Blood Banking/Transfusion Medicine.

She is a leading educator in the Division of Laboratory Medicine, and she has been honored by our residents with their Excellence in Resident Education in Clinical Pa-

thology Award (renamed the Shu T. Huang Award for Excellence in Laboratory Medicine Education) in 2001, 2002, 2005, and 2009. She has also been recognized for her teaching by UAB medical students, who have chosen her for the Argus Society Award-Best Lecturer-Hematopathology, Class of 2009 and Class of 2010, as well as Argus Society Award-Best Lecturer Runner-Up, Class of 2011 and Class of 2012. She is a member of the AABB Press Editorial Committee, which oversees the commissioning of new books dealing with blood banking; the Education Committee of Academy of Clinical Laboratory Physicians and Scientists (ACLPS); and the RISE Committee of the American Society of Clinical Pathology (ASCP), which is developing educational materials for the recertification examination in clinical pathology.

She is a gifted and highly respected clinician who provides valuable oversight of blood product and coagulation factor utilization within the UAB Health System. She has been awarded both the Award of Excellence for Care and the Excellence in Action Award from UAB Hospital. The former recognizes her gracious and personalized care given to patients undergoing plasmapheresis. The latter recognized her highly successful leadership of a UAB Hospital program to eliminate unnecessary red cell transfusions, thereby decreasing morbidity and cost.

She is the author of 73 published papers, dealing primarily with transfusion medicine and coagulation. Her special research interests are TRALI (transfusion related acute lung injury) and laboratory medicine outcomes research. Equally important, she is the co-author with George Fritsma, of the highly acclaimed "A Quick Guide to Coagulation Testing", which is in its 2nd edition. Two other guides: "A Quick Guide to Transfusion Medicine" (co-authored with Margaret Fritsma) and "A Quick Guide to Hematology" (co-authored with George Fritsma and Vishnu Reddy) are equally respected.

Her national recognition is attested by being on the Board of Directors, American Society for Apheresis (ASFA); Associate Editor, *Journal of Clinical Apheresis*; member of the Editorial Board of the *American Journal of Clinical Pathology*; RISE Preparation Committee, ASCP; Education Committee, ASFA; Executive Committee, ACLPS; and Scientific Committee on Hematopathology and Clinical Laboratory Hematology, American Society of Hematology.

Marisa is a role model for her colleagues, residents, and students. She continually strives for excellence in herself and others, and thereby motivates the Division of Laboratory Medicine, the Department of Pathology, the UAB-School of Medicine, the UAB Health System, and national transfusion medicine to continue to improve their clinical and educational performance.

She has been awarded both the Award of Excellence for Care and the Excellence in Action Award from UAB Hospital.

Faculty Profile: Andra Frost, M.D.



Dr. Andra Frost joined the faculty at UAB in 1997 as a cytopathologist and surgical pathologist. She obtained her M.D. degree from the University of Alabama at Birmingham, followed by residency training in Anatomic and Clinical Pathology and a combined Surgical Pathology and Cytopathology Fellowship at George Washington University. During her residency, she was chairman of the Resident Physician Section of the American Society for Clinical Pathology. She was a faculty member of the Departments of Pathology at Georgetown University and George Washington University before joining the faculty at UAB. She was section head of the UAB Cytopathology Service from 1998 to 2001 and currently participates in the Autopsy Service. In 1998, she was honored with the Leonard H. Robin-

son Award for Excellence in Resident Education in Anatomic Pathology.

Andra's research interest is primarily in breast cancer. Earlier in her career, her research focus was on the histologic and cytologic classification and prognostication of breast cancer. Through this work, she developed an interest in the stromal or desmoplastic response in breast cancer and wanted to better understand the role of stromal-epithelial interactions in breast cancer development and progression. To this end, Andra developed a laboratory-based research program under the guidance and tutelage of several established investigators, including Drs. Bill Grizzle and Danny Welch. Current research projects involve Hedgehog signaling, Gli-mediated transcription and primary cilia in breast cancer, including their functions in the interactions between breast epithelial cells and

fibroblasts. Her work has been funded by the American Cancer Society, the Department of Defense, the Susan G. Komen Foundation and NIH. She was also Director of the UAB Laser Microdissection Facility from 1999 – 2009. She currently collaborates with Dr. Susan Ruppert on a Breast SPORC project studying KLF4 and Notch signaling in breast cancer.

Andra has been married to Larry Frost for 26 years. Larry is a member of the UAB Center for Biophysical Sciences and Engineering. They live in Birmingham with their labrador retriever, Suzi. Andra spends as much of her free time as is feasible outdoors, and enjoys hiking, traveling and college football.

**Dr. Frost's
research interest
is primarily in
breast cancer.**

From the FAC

The Faculty Advisory Council (FAC) membership represents the faculty in all Divisions of the Department of Pathology. Below is the current FAC membership. Please feel free to contact your divisional representative with your ideas, suggestions or concerns. We will also have an on line survey. Please provide your input and fill in the

online survey when it becomes available.

Membership:

Laboratory Medicine

R. Pat Bucy, M.D., Ph.D.
William Benjamin, Ph.D.

Neuropathology/Forensics

Kenneth B. Fallon, M.D.

Molecular & Cellular Pathology

Zdenek Hel, Ph.D.

Majd Zayzafoon, M.D., Ph.D.

Anatomic Pathology

Patricia DeVilliers, DDS

Darshana Jhala, M.D., B Mus (Chair)



Annual Argus Awards

The Argus Society of the University of Alabama at Birmingham School of Medicine was formed by the student body in 1996 to honor the faculty and departments that have exhibited excellence in medical education. This year medical students from all four classes voted for best lecturers, best module directors, best modules, and for best department. The top three or four vote getters in each category were identified as nominees.

Pathology faculty who were identified as **nominees** for teaching awards from the Class of 2013 included: Best Introductory Module lecturers – Drs. Ken Waites and Peter Anderson; Best Introductory Module Directors – Drs. Ken Waites and Peter Anderson; and Best Introductory Module – Fundamentals II. Nominees for teaching awards from the Class of 2012 included: Best Lecturers – Drs. Marisa Marques

and Vishnu Reddy; Best Module Directors – Drs. Silvio Litovsky and Bruce Alexander; and Best Module – Cardiovascular (Dr. Litovsky) and Pulmonary (Dr. Alexander). And the nominees for the Best Department from the Class of 2010 included the Department of Pathology.



Dr. Ken Waites



Dr. Silvio Litovsky

The 2010 Argus Award **winners** from the Department of Pathology were: Best Introductory Module lecturer – Dr. Ken Waites; Best Module Director – Dr. Silvio Litovsky; and Best Organ Module – Cardiovascular (Dr. Litovsky).

Thanks to all pathology faculty who participate in department medical school teaching

activities, and special thanks and congratulations to all of the Argus Award nominees and winners. It is especially noteworthy to mention that although Pathology did not win the “Best Department Award” (the winner this year was Medicine), we were nominated for this honor. This is a unique honor in that Pathology does not have any required rotations for 3rd or 4th year students. Thus, this departmental nomination undoubtedly emanated from the impact that pathology education had on the students throughout all 4 years of their tenure at the UAB School of Medicine. This included coursework in the pre-clerkship portion of the curriculum as well as special topics and elective rotations during the later portion of the medical curriculum. Again kudos go to all pathology faculty for their participation in medical education activities at all levels.

Dr. Anderson Selected as USMLE Committee Member:



Dr. Peter Anderson,
Professor of Pathology and
Director of Pathology
Undergradu-

ate Education, was recently selected as a member of the United States Medical Licensing Examination (USMLE) Step 1 Committee. This committee is responsible for the content, standards and overall direction of USMLE Step 1 examination. The USMLE Step 1 examination is the first of a three-step examination for medical licensure in the United States and is sponsored by the Federation of State Medical Boards

(FSMB) and the National Board of Medical Examiners (NBME).

Dr. Anderson has been active in USMLE since 2002 when he was first appointed as a member of the Pathology Test Material Development Committee. He is currently chair of that Pathology TDMC and has also been appointed to the Step 1 Interdisciplinary Review Committee (IRC). The IRC committee is charged with reviewing all test items that are in the item database for use in the USMLE Step 1 examinations. Dr. Anderson is also currently serving as a Test Committee Representative to the NBME and is the Chair of Pathology for the NBME. The approxi-

mately 80 members of the National Board constitute its governing body which is composed of individuals with responsibility and expertise in the health professions, medical education and evaluation, and medical practice, National Board test committee representatives, and representatives of national professional organizations and the public. The NBME is an independent, not-for-profit organization that provides high-quality examinations for the health professions. Protection of the health of the public through state of the art assessment of health professionals is the mission of the NBME.

This committee is responsible for the content, standards and overall direction of USMLE Step 1 examination.

UAB Researchers find Four Biomarkers Important in Colorectal Cancer Treatment Prognosis

Researchers at the [University of Alabama at Birmingham \(UAB\)](#) [Department of Pathology](#) have



Dr. Upender Manne



Liselle Bovell, B.S.

discovered a set of four biomarkers that will help predict which patients are more likely to develop aggressive colorectal cancer and which are not. The findings also shed light on the genetics that result in worse colorectal cancer-treatment outcomes for

African-Americans, compared with Caucasians, the researchers said.

In data presented April 19 at the American Association of Cancer Research annual meeting in Washington, D.C., Liselle Bovell, a graduate student working in the laboratory of UAB Associate Professor of Pathology [Upender Manne, Ph.D.](#), discovered that patients who tested positive for higher levels of a genetic biomarker called microRNA (miRNA) had increased

risk of death after being treated for colorectal cancer.

In genetic tests of tumor samples from the patients, the presence of higher levels of miRNA-21 and miR-106a signaled poorer prognosis after treatment for both Caucasian and African-American patients compared with patients who did not have the higher miRNA levels. The presence of higher levels of miR-181b and miR-203 signaled poorer prognosis after treatment for African-American patients, but not for Caucasians.

"This knowledge gives us solid, prognostic information, so we can better manage patients with these cancers early after diagnosis or surgery," Bovell said.

Nobel Laureate Philip A. Sharp, Ph.D., of the Koch Institute for Integrative Cancer Research at the Massachusetts Institute of Technology, hosted a press conference at the annual meeting that included Bovell and other researchers. In a statement, Sharp said, "The science of miRNAs and related small RNAs will continue to generate new insights into cancer and possible future treatment."

The UAB researchers analyzed data from 218 patients who underwent surgery and other treatments for colorectal cancer at UAB Hospital between 1982 and 2004. They examined the gene-test results of tumor and benign-tissue samples and discovered the four miRNAs important to assessing patient survival.

For many cancers, including colon cancer, African-Americans have lower survival rates than whites. Possible reasons behind this disparity - including genetic variation, tumor characteristics, access to health care and other factors - are being examined extensively.

"Our findings underscore the potential clinical usefulness of miRNAs in studying cancer risk and cancer progression, and we've shown that race and ethnicity should be considered in the evaluation," Manne said.

The research is a partnership between UAB and the Morehouse School of Medicine in Atlanta. Funding for the work comes from the National Cancer Institute.

—This story was reprinted from the UAB Reporter.

"This knowledge gives us solid, prognostic information, so we can better manage patients with these cancers early after diagnosis or surgery," Bovell said.

Transfusion Medicine News:



soon join us as a new Assistant

The Division of Laboratory Medicine is pleased to announce that Dr. Jill Adamski will

Professor in the section of Transfusion Medicine. Dr. Adamski graduated from the M.D./Ph.D. program at UAB followed by training in Clinical Pathology at the University of Pennsylvania where she is completing a fellowship in

Blood Banking/Transfusion Medicine. Please welcome her to UAB when she returns in July!

—Dr. Marisa Marques

IAMSE Global Outreach:



Dr. Peter Anderson, Professor of Pathology and Director of Pathology Undergraduate Education at the University of Alabama at Birmingham, shares his photographs from a recent trip to Zambia Africa. Dr. Anderson was selected as a member of the Fulbright Specialist Program. This Fulbright Foundation-sponsored program promotes linkages between U.S. academics and their counterparts

at universities abroad. The program is designed to award grants to qualified U.S. faculty in select disciplines to engage in short-term collaborative 2 to 6 week projects at higher education institutions in over 100 countries worldwide.

Dr. Anderson made this trip to Zambia as part of the UAB Sparkman Center for Global Health Initiatives ongoing program to sup-

port health sciences educational activities in Zambia. The Sparkman Center has an ongoing relationship with the University of Zambia School of Medicine. The overall goal of these activities is to expand and enhance models of medical education in Sub-Saharan Africa. These models are intended to yield increasing number of new health care workers, strengthen medical education systems in the countries in which they exist, and build clinical and research capacity in Africa as part of a retention strategy for faculty of medical schools and clinical professors. The strategy of this initiative is to build human capacity for health in Africa by strengthening the medical education system in an environment that values and nurtures basic science and research and which will contribute to the sustainability and quality of the overall effort.

This Fulbright Foundation-sponsored program promotes linkages between U.S. academics and their counterparts at universities abroad.

Accolades:



Zdenek Hel has been elected as the 2nd member of the Faculty Advisory Council for MCP.

ology (Section on Endocrinology and Metabolism) Editorial Board



Majd Zayzafoon was recently elected as

an Executive Member of the board of the Advances in Mineral Metabolism Society



Joseph L. Messina was asked to be on the American Journal of Physi-

Spotlight on Support: Elle Presnall



As the departmental receptionist, Elle Presnall is the face of our department since she joined us in March 2000. She welcomes the department's guests and handles a high percentage of calls coming to the Chair's office and Laboratory Medicine division. For the last seven years she has provided secretarial support for Dr. Dennis Kucik, and she is also the custodian of the department's CME program. Elle attributes her ten year tenure with the Department to the welcoming atmosphere of both faculty and staff.

After high school in 1980, Elle served in the U.S. Navy for eight years with the aspiration of becoming a commissioned officer. Her tours took her to the marinas of San Diego, the beaches of Puerto Rico, the Nation's Capitol and Iceland's volcanic capitol, Reykjavik. However in 1988, she decided to end her career with the Navy and move back to Birmingham where she was born and raised. Prior to coming to UAB, she worked with the Department of Corrections Men and Women Centers here in Birmingham and also with the State of Alabama Disability Determination office in Rocky Ridge.

Elle has been married for 26 years, has 2 children, and 2 grandsons. Elle is a voracious reader who enjoys Bible-based sources as well as science, nature and history. She enjoys discussions on any subject, so the variety of people who pass through the department has been stimulating, as well as providing an exchange of knowledge. When she left the Navy, she became a volunteer in her community and has volunteered in many communities across the city of Birmingham for the last eighteen years. When she eventually retires, she hopes to be able to focus more on her volunteer work and spend more time with her grandkids.

From the Chief Residents

First of all – thank you to Mark and Amanda for a wonderful year!

We are excited about the new residents who are joining the program in July. Our seven new residents are:

Evan Alston: University of South Alabama

Taylor Deal: Medical College of Georgia

Caitlin (Caitie) Halverson: University of Alabama School of Medicine

Alex Hanna: University of South Alabama

Benjamin (Ben) Hill: University of South Carolina

Wei Song: Shanghai Medical University

Jie (Jessie) Xu: Hubei Medical

University

Marian Kraemer & Darrell Sanders
Chief Residents, 2010-2011

2010 Incoming Fellows

Kathrina Alexander: Hematopathology

Shuting Bai: Gastrointestinal Pathology

Zendee Elaba: Dermatopathology
George Gorgon: Molecular-Genetics

James Robinson Hackney: Neuro-pathology

Benjamin Havard: Surgical Pathology

Shantel Hebert-Magee: Cytopathology

Faisal Mukhtar: Cytopathology

Zanggen Pan: Surgical Pathology
Mark Steciuk: Hematopathology

Boards

Best wishes to everyone taking board exams this summer. You have worked hard and will do well!

Congratulations!

Emily Gorman and Liz Kerr were appointed as UAB's representatives to the CAP resident's forum.

Amy Treece was appointed as UAB's ASCP resident liaison.

Johnny Ross will take over Mark Steciuk's role as the House Staff Council Representative.

From the Chief Residents cont'd...

National Meetings

ACLPS

The 45th Annual ACLPS Meeting will be held on June 3 – 5, 2010, in Nashville, Tennessee. **Darrell Sanders** will give an oral presentation titled "Medical Students' Impressions of a New Elective Course in Laboratory Medicine." Faculty mentor is Dr. Marisa Marques. **James Post** and **Hayward Edmunds** will present the poster "New Rapid In-Situ Hybridization Technique to Identify Epstein-Barr Virus Infections in Tissues: A Single Institution's Preliminary Experience." Faculty mentor is Dr. Vishnu Reddy. **Lizz Kerr** and **Ginny Dailey** will present the poster, "A One Year Retrospective Review of the Use of QuantiFERON-TB Gold in Tube at the University of Alabama at Birmingham".

Farewell To Our Departing Residents and Fellows

UAB Hospital and the Department of Pathology wish you success and happiness in your future endeavors. Best wishes to:

Leona Council: Interviews in progress

Jeremy Henderson: Private Practice, Southeast Louisiana

Hayward Edmunds: Private Practice, Birmingham, AL

Faisal Mukhtar: Cytopathology Fellowship, UAB

Diane Peterson: Deputy Medical Examiner, Kansas City, MO

Kathrina Alexander: Hematopathology Fellowship, UAB

Shaoying Li: Hematopathology Fellowship, MD Anderson

Meiklejohn McKenzie: Private Practice, Cookeville, TN

Mark Steciuk: Hematopathology Fellowship, UAB

Sharath Bhagavathi: Interviews in progress

Outgoing Reception

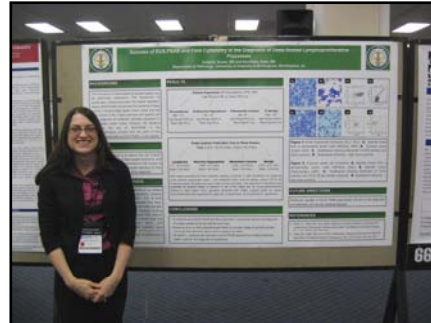
Primary faculty and residents and fellows are invited to attend the 2010 Outgoing Reception from 6 pm to 8 pm on Thursday, May 13, at the Vestavia Hills Country Club. For more information, please contact Karen Lewis at 934-4060 or kflewis@uab.edu.

2010 Intramural Season – Kickball – "The A Team"

Thanks to our captain, Emily Gorman, for organizing this year's kickball team. Also, thanks to Dr. Alexander for sponsoring our team. We didn't make it to the playoffs, but we had a lot of fun playing. We also got to try our hands at being kickball referees.



2010 USCAP Meeting in Washington D.C. – Amberly Nunez



From the Graduate Students:

Accolades/Awards:

Graduate Program Director:

Rakesh Patel, Ph.D.

Graduate Program Support:

Nicole Newton

934-2445

Angela Gullard received the Overall Winner award at the UAB School of Dentistry 5th Annual Scholars' Symposium for her poster presentation "TGF-beta1 CED Mouse Model Demonstrates Altered SIBLING/MEPE Expression." She will go on to represent UAB School of Dentistry in a national competition at the 2010 American Dental Association (ADA)/Dentsply Student Clinician Research Program in Orlando, FL.

Also, at the 2010 AADR meeting, she was awarded a \$3,000 AADR Student Research Fellowship for her research proposal, "Altered SIBLING/MEPE Expression in Hyperactivated TGF-beta1 Mouse CED Model."

Shaoning Jiang received a travel award from UAB Diabetes Research and Training Center to attend the American Diabetes Association meeting in Orlando. The title of the abstract is "Role of Inhibitory κ B kinase and c-Jun N-terminal kinase in Hepatic Insulin Resistance Following Trauma and Hemorrhage".

Jessica Fetterman (Brenneman) received a UAB Ireland Research Travel Award to travel to the University of Pennsylvania to learn how to determine mitochondrial haplotypes in patient samples. The title of her work is "Mitochondrial haplotype, function, and damage play a role in cardiovascular disease susceptibility in C57 and C3H mice."

Tara Edmonds was awarded the Keystone Symposia scholarship for \$1000.

Scott Tanner received one of 40 Travel Grants for the 14th International Congress of Immunology awarded by the American Association

of Immunologists. The Congress will be August 22-27, 2010 in Kobe, Japan. The travel grants were awarded to trainee and junior faculty to present a first author abstract at the meeting, with only 5 being awarded to predoctoral trainees. This will provide an excellent opportunity to present and discuss his research at an international conference and allow him to interact with many of the world's top immunologists.

Angelina Londono received a travel grant from the Susan G. Komen Foundation. Presented an abstract at American Association of Cancer Research.

Robert Bone received a Travel Award from the UAB Diabetes Research & Training Center to present a poster entitled "Increased Islet Cell Survival and Proliferation with the Gene Transfer of Constitutively Active Akt1" at the American Diabetes Association 70th Scientific Sessions meeting in Orlando, FL. (June 25-29, 2010).

Ryan Stapley was awarded the Cardiovascular Pathophysiology Training grant (T32) for 2010 to 2011.

Stephanie Wall was awarded the Cardiovascular Pathophysiology Training grant (T32) for 2010 to 2011.

Jonathan Hensel received the Outstanding Scholar (doctoral) award for the Pathology Department.

Publications/Presentations:

Angela Gullard gave an oral and poster presentation at the 39th Annual Meeting of the American Association for Dental Research (AADR) in Washington, DC. Her abstract, entitled "TGF-beta1

CED Mouse Model Demonstrates Altered SIBLING/MEPE Expression," was one of nine abstracts selected for an oral presentation in the Junior Category of the AADR Johnson & Johnson Healthcare Products Hatton Awards Competition.

Shaoning Jiang had a manuscript accepted for publication: Adenovirus Infection Results in Alterations of Insulin Signaling and Glucose Homeostasis. Jiang S, Gavrikova TA, Pereboev A, and Messina JL. *Am J Physiol Endocrinol Metab*.

Tara Edmonds presented both an oral and poster presentation at each meeting:

"Infectious Molecular Clones of Transmitted/Founder HIV-1 Infect Monocyte-Derived Macrophages Less Efficiently than Highly Macrophage-Tropic Viruses". Oct. 4 - 7, 2009. CHAVI 5th Annual Retreat, Durham, North Carolina.

"Infectious Molecular Clones of Transmitted/Founder HIV-1 Infect Monocyte-Derived Macrophages Less Efficiently than Highly Macrophage Tropic Viruses". Jan. 12 - 17, 2010. Keystone Symposia, HIV Biology and Pathogenesis, Santa Fe, New Mexico.

Tara Edmonds also had the following publications:

"Phenotypic and Functional Profile of HIV-inhibitory CD8 T cells Elicited by Natural Infection and Heterologous Prime/boost Vaccination". Freel SA, Lamoreaux L, Chatopadhyay PK, Saunders K, Zarkowsky D, Overman RG, Ochsenbauer C, Edmonds TG, Kappes JC, Cunningham CK, Denny TN, Weinhold KJ, Ferrari G, Haynes BF,

From the Graduate Students (Cont'd):

Koup RA, Graham BS, Roederer M, Tomaras GD. J Virol. 2010 Mar 3.

"Differential inhibition of human immunodeficiency virus type 1 in peripheral blood mononuclear cells and TZM-bl cells by endotoxin-mediated chemokine and gamma interferon production". Geonntti AR, Bilska M, Yuan X, Ochsenbauer C, Edmonds TG, Kappes JC, Liao HX, Haynes BF, Montefiori DC. AIDS Res Hum Retroviruses. 2010 Mar; 26 (3):279-91.

"Anti-phospholipid human monoclonal antibodies inhibit CCR5-tropic HIV-1 and induce beta-chemokines". Moody MA, Liao HX, Alam SM, Searce RM, Plonk MK, Kozink DM, Drinker MS, Zhang R, Xia SM, Sutherland LL, Tomaras GD, Giles IP, Kappes JC, Ochsenbauer-Jambor C, Edmonds TG, Soares M, Barbero G, Forthal DN, Landucci G, Chang C, King SW, Kavlie A, Denny TN, Hwang KK, Chen PP, Thorpe PE, Montefiori DC, Haynes BF. J Exp Med. 2010 Apr 12; 207(4):763-76.

Junghyun Kim Spl regulates chromatin looping between an intronic enhancer and distal promoter of the human heme oxygenase-1 gene in

renal cells. Deshane J, Kim J, Bolisetty S, Hock TD, Hill-Kapturczak N, Agarwal A. J Biol Chem. 2010 Mar 29. *First two authors contribute equally.

Scott Tanner represented UAB at the Howard Hughes Med to Grad regional conference.

Angelina Londono represented UAB at the Howard Hughes Med to Grad regional conference.

Lena Gamble had the following publication: "Role of RGD-containing ligands in targeting cellular integrins: Applications for ovarian cancer virotherapy (Review)" Exp Ther Med 1: 233-240, 2010.

Lena also had the following presentation: "Modification of Conditionally Replicative Adenoviruses (CRAds) for Treatment of Ovarian Cancer" Invited by: CR Thomas, Jr., MD, Chair, Department of Radiation Medicine, DHSU Knight Cancer Institute.



Upcoming Events:

Molecular and Cellular Pathology

Graduate Program Annual Picnic –

July 10, 2010, Wald Park, 11:00am-4:00pm

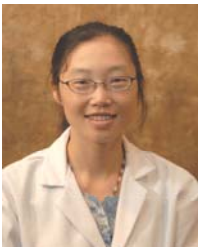
Department of Pathology PREP Program May 17 – July 23

2010 PREP Students

As in previous years, this summer the Pathology Department offers research opportunity to college students through the Program for Research Experience in Pathology. This 10-week course begins at the end of May and continues until the end of July. This year, six meritorious students were chosen from approximately 45 applications. The students were assigned to faculties of the Pathology Department who have independent research programs. About 10-15% of the students who attend this PREP program choose to join the pathology Department for their Ph.D.

Tae-Yoon Kim—Univ. of Alabama
Kathryn Bailey—Mesa State College
Veronica Ferris—Birmingham-Southern College
Yasmeen Warsi—Univ. of Alabama at Birmingham
Cailin Thomas—Auburn Univ.
Felicia McGuire—Sweet Briar College

CAP Foundation Awardee:



Congratulations to Pathology Resident **Dr.**

Xiaojun Wu on being selected as the

2010 awardee of the CAP Foundation advanced training grant in diagnostic hematopathology and

ancillary testing, sponsored by Clariant out of an extremely competitive applicant pool. The four week rotation will take place in the state-of-the art Clariant laboratory in Aliso Viejo, California. Areas of focus will include morphologic examination of bone marrows, lymph nodes and other specimens. Extensive exposure to ancillary

testing in flow cytometry, FISH, molecular pathology, and genetics will also be critical components. This grant offers \$5000 to supplement expenses incurred during this rotation.

2010 Tri-State Pathology Conference:



The 2010 Tri-State Pathology Conference was held the weekend of April 24-25 at the Ross Bridge Resort in Hoover, AL and was attended by pathologists and pathology residents from Alabama, Mississippi, and Louisiana. The event was hosted by the Alabama Association of Pathologists and co-sponsored by the University of Alabama School of Medicine. Many of the Anatomic Pathology faculty participated in the educational component of the meeting.

Those presenting included Drs. Doru Andea, Walter Bell, Michael Conner, Ona Faye-Petersen, Omar Hameed, Nirag Jhala, Lea Novak, Stephanie Reilly, Gene Siegal, and Tom Winokur. Dr. Stanley Robboy, President-Elect of the College of American Pathologists, attended the meeting and discussed his views on the impact that the current healthcare reform plan will have on the practice of pathology. There was also a presentation by Al Sirmon, President of Pathology Service Associates, LLC, on professional component billing in the clinical laboratories. The Alabama Association of Pathologists is the professional organization representing pathologists in our state. The organization is active in

education through its annual meeting, but also represents the pathologists of Alabama, as a group, politically. Two of our faculty members currently hold office in the association. Dr. Isam Eltoum is President-Elect and Dr. Walter Bell is Secretary-Treasurer. Practicing pathologists and pathology residents are encouraged to join the association. No dues are required for junior resident members. A membership application is available online at: <http://www.medicalbureau.net/common/feedback.asp?PAGE=417>. Application does require the support of two current members. If you are interested in joining and don't know two members, please contact either Dr. Eltoum or Dr. Bell.

If anyone has any news items, accolades, etc. to be put in the quarterly newsletter, please send it to the Path In Focus e-mail address at: pathinfofocus@uab.edu.

Thank you.

Pathology Grant Awards

The following grants were recently awarded to pathology faculty:

SCOTT BALLINGER

UAB/CCC (CPDG)

Mitochondrial-Nuclear Interactions in Metastasis Susceptibility
\$37,500 03/01/10-02/28/11

SCOTT BALLINGER (Co-PI Messina)

UAB Diabetes Res & Training Ctr
Role of Mitochondrial Genetic Background in the Development of Insulin Resistance
\$50,000 03/01/10-02/28/11

WILLIAM GRIZZLE

NIH

Biomarker Reference Laboratory, EDRN
\$150,022 03/01/10-6/30/10

WILLIAM GRIZZLE

NIH/George Washington Univ. Medical Center

The Importance of EMT in Breast Cancer in African American Women
\$37,856 04/01/10-03/31/12

DENNIS KUCIK

VA/IPA

\$74,880 04/01/10-03/31/12

AIMEE LANDAR

NIH

The Role of Mitochondrial Protein Thiol Modifications in Endothelial Dysfunction
\$1,831,250 04/01/10-2/28/15

JAY McDONALD

VA/IPA

\$53,880 04/01/10-03/31/12

RAKESH PATEL

NIH

Role of Hemoglobin b93cys Residue in Nitric Oxide Bioactivity
\$1,484,625 2/22/09-11/30/13

DANNY WELCH

UAB/CCC (CPDG)

Mitochondrial-Nuclear Interactions in Metastasis Susceptibility
\$37,500 03/01/10-02/28/11

MAJD ZAYZAFOON

UAB/CCC (CPDG)

The Role of IRES-mediated Translation in the Pathogenesis of Prostate Cancer
\$37,500 03/01/10-02/28/11

DANNY WELCH

UAB/CCC (CPDG)

A Therapeutic Approach to Prevent Cancer Metastasis to Lung
\$37,500 04/01/10-03/31/11

JIANHUA ZHANG

NIH

Alpha-Synuclein Degradation Mechanisms
\$1,602,345 04/15/10-3/31/15