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FOREWORD

The Annual Report of the USA College of Medicine documents the achievements of faculty, students, residents, fellows, and staff in teaching, patient care, community service, research and other scholarly activity. The faculty and administration have worked diligently to ensure that we do not compromise the educational and other missions of our college despite the financial constraints imposed by reductions in state funding and patient service revenues during the past several years.

We have succeeded in recruiting and appointing new chairs in key leadership positions in neurosurgery and pediatrics during the academic year. Dr. Tony Martino was appointed permanent Chair of Neurosurgery following a successful stint as acting chair of the department. Dr. David Gremse has returned to USA as Chair of Pediatrics having served for eight years as Chair of Pediatrics at the University of Nevada in Las Vegas. Dr. Gremse graduated from USA’s College of Medicine in 1983 and he is the first graduate of the college to become a chair in our college. We also wish to acknowledge the contributions made by Dr. Charles (Jose') Hamm who served as Interim Chair of the Department of Pediatrics prior to the appointment of Dr. Gremse to this important leadership position.

Several notable achievements are highlighted throughout the annual report, but two require special recognition. These are the renewals of the P-20 Center of Excellence Grant on Health Disparities headed by Dr. Errol Crook of the Center for Healthy Communities, and the Endothelial Lung Biology P-60 Program Project Grant headed by Dr. Troy Stevens of the Center for Lung Biology. These two competitive multi-million dollar awards will enable these programs to move forward with the projects that will continue to strengthen these centers and gain full recognition as national resources.

Significant effort was expended during the year in the planning and implementation of a new organ-system, competency based curriculum for the first two years of medical school. This effort was led by Dr. Susan LeDoux, Associate Dean of Medical Education and Student Affairs and a team of committed faculty from both basic science and clinical disciplines. A closely related activity was our need to address issues exposed by an LCME Accreditation Visit in 2010. Many individuals contributed to our response, but special recognition is given to members of the curriculum committee and to Dr. Mary Townsley who accepted the responsibility of assembling the data base in preparation for a Limited Survey Team Visit that occurred in September, 2012.

The preliminary feedback we received from the survey team was encouraging, suggesting that we have made significant progress in addressing those issues raised previously by the LCME.

During the next academic year we will continue to move towards full implementation of an extensively revised curriculum for all four years of medical school, tackling issues of diversity and cultural competence within all facets of the college, and seek novel ways to strengthen scholarly activity in our basic science and clinical departments.
We have good momentum, excellent collaboration, and a strong work ethic—attributes that will continue to make an excellent college of medicine even better.

Samuel J. Strada, Ph.D.
Dean
University of South Alabama
College of Medicine
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Kadeba PI, Scammell JG, Cioffi DL. Membrane localization of FK506-binding proteins FKBP51 and FKBP52, immunophilins that are part of the endothelial store-operated calcium entry heterocomplex. FASEB J. 2012;26:1130.7.


Ochi R, Gupte SA. L-type Ca$^{2+}$ channel current from on-cell patch is augmented by H$_2$O$_2$ in rat aortic smooth muscle-derived A7r5 cells. FASEB J. 2012;26:695.4.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Gerthoffer WT. Invited speaker. MicroRNAs and smooth muscle phenotype. Department of Cell Physiology and Molecular Biophysics, Texas Tech University; 2011 Oct 13; Lubbock, TX.

Gerthoffer WT. Invited speaker. MicroRNAs and smooth muscle phenotype. Stitzel Lecturer, West Virginia University; 2011 Oct 26; Morgantown, WV.

Gupte SA. Invited speaker. G6PD and stem cells in vascular biology. Science Department, Berry College; 2012 Jan 31; Rome, GA.

Honkanen RE. Invited speaker. PP5 an often overlooked PPP-family phosphatase. FASEB Summer Research Conferences, Protein phosphatases; 2012 Jul 16; Snowmass, CO.


LeClaire LL. Invited speaker. Controlling cell migration by phosphorylation of the arp2/3 complex. Mitchell Cancer Institute Seminar. 2012 Mar 13; Mobile, AL.


Lim ST. Invited speaker. Nuclear role of FAK in inflammation signaling. FASEB Summer Research Conferences, Tyrosine Kinase Signaling in Cancer, Disease & Development; 2012 Jul 24; Snowmass, CO.


V. NATIONAL PROFESSIONAL RECOGNITION


Gerthoffer WT: Editorial Board Member, American Journal of Physiology, Cell Physiology; Editorial Board Member, American Journal of Physiology, Lung Cell and Molecular; Editorial Board Member, Cell Health and Cytoskeleton; Associate Editor, Comprehensive Physiology, Respiratory Physiology; Chairman, American Thoracic Society, Planning Committee of the RSF Assembly; Reviewer NIH, VCMB study section (ad hoc); Reviewer NIH Surgical Sciences, Biomedical Imaging, and Bioengineering SEP (ad hoc).
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Recruitment of new faculty to the department has continued in 2012. A successful joint search conducted with the Department of Physiology resulted in hiring of Dr. Steve Lim, who joined the faculty in January 2012. Dr. Lim trained at the University of Alabama, Birmingham and was a postdoctoral fellow in the Department of Reproductive Medicine, UC San Diego prior to joining the University of South Alabama. His expertise in molecular biology of the focal adhesion kinase builds on existing research expertise on cytoskeletal proteins in the department and in the College of Medicine. Since joining the department, he obtained national funding from the American Heart Association for his studies of focal adhesion kinase in the cardiovascular system. Dr. Lim also has interests in pursuing some novel functions of focal adhesion kinase in studies of cancer metastasis. His cancer-related interests add to a growing focus on cancer molecular cell biology already under way in the Honkanen and LeClaire labs.

Education activities in the department have focused on revising the medical curriculum and continuing to contribute to graduate education. Several faculty members, including the chair, have participated in planning and implementing a major revision of the first year medical course. The faculty have added case-based lectures and self-directed modules and team-based learning lessons to the Foundations of Human Health module. The faculty all contributed to multiple IDL graduate courses and participate in the Lung Biology, Vascular Biology, Cancer Biology and Cell and Molecular Biology tracks of the graduate program. Five fourth year graduate students and two third year students are training with department faculty members (Gerthoffer, S. Gupte, Rocic, Cioffi). One student, Tracy Dodd, finished her degree and is a postdoctoral fellow with Dr. Patricia Molina, Louisiana State University. The department also contributed to biomedical science education by hosting sophomore medical students and a USA undergraduate in the College of Medicine and UCUR summer research programs respectively.
Research funding remains strong and all labs are active and productive. Three of the four junior faculty members direct active labs funded by NIH grants. Dr. Cioffi recently won a second NIH grant to support novel work on endothelial cell calcium signaling. A fourth junior faculty member, Dr. Lim, is funded by a Scientist Development Grant from AHA National Center. The senior faculty R. Honkanen (protein phosphatase-5) and W. Gerthoffer (small heat shock proteins, miRNAs) continue to be supported by multiple NIH grants. Dr. Honkanen was awarded a prestigious NIH Director’s Transformative Research Project Award. Two fellowships from the American Heart Association were awarded to department trainees. Dr. A. Vasauskas working with Dr. D. Cioffi is supported by an NIH NRSA postdoctoral fellowship. Rebecca Hutcheson (GSII) training with Dr. Rocic is supported by an NIH predoctoral fellowship.

In addition, new grant applications from every faculty member either have been submitted, or are in development. The faculty funding, publication rate and impact are nationally competitive on a per capita basis. The faculty have significant impact on their respective fields as demonstrated by publication of invited reviews and invitations to speak at symposia at national meetings (Gerthoffer, Rocic, Honkanen, LeClaire) and at other universities. The faculty also contributes significantly to regional and national peer review, serving peer review committees for AHA, the NIH and American Cancer Society as well as ad hoc service for international granting agencies. Several faculty members serve on journal editorial boards and others contribute regularly as journal reviewers. With a solid base of funded, productive biomedical researchers, the department anticipates continued growth in scholarship and impact on our respective scientific fields.
1. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

LeDoux SP. Invited speaker. Mitochondrial DNA repair in the central nervous system. Department of Toxicology, University of Kentucky; 2012 Jan 23; Lexington, KY.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Neuroscience Institute, Morehouse School of Medicine; 2012 Feb 24; Atlanta, GA.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Stark Neurosciences Research Institute, Indiana University School of Medicine; 2012 Mar 13; Indianapolis, IN.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Center for Molecular Medicine and Genetics, Wayne State University; 2012 Apr 24; Detroit, MI.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Hunter James Kelly Research Institute, University of Buffalo; 2012 May 10; Buffalo, NY.

Rachek LI. Invited speaker. Mitochondrial DNA damage and insulin resistance. Mitchell Cancer Institute Research Seminar; 2011 Nov 22; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION


Ronald Balczon: Ad Hoc Reviewer, The Lytmos Group LLC.

Phillip Fields: Member, Society for the Study of Reproduction Awards Committee.


Steve Kayes: Member, American Society of Parasitologists; Member of the Board, Alabama Department of Rehabilitation Services.

Susan LeDoux: Member, NIH Cancer Etiology Study Section; Member, Editorial Board DNA Repair; Journal Peer Reviewer, DNA Repair, Science, Brain Research, Aging and Development, J Neuroscience, Carcinogenesis, Nucleic Acids Research; President, Mitochondrial Research Society; Member, Physiology and Cell Biology Item Writing Committee of NBME.


Sarah Sayner: Grant Reviewer, American Heart Association; Ad Hoc Reviewer, AJP Lung, PLoS One; Reviewer, meeting abstracts, Pulmonary Circulation Assembly, American Thoracic Society Conference; Chair, mini-symposium, American Thoracic Society Conference.
Glenn Wilson: Member, Editorial Board, Molecular Development and Aging; Reviewer, NIEHS Study Section; Chair, NIEHS ViCTER Study Section.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department places strong emphasis on both teaching and research. To enhance its research efforts, the Department sponsored visits from five distinguished scientists to meet with members in the Department and to present seminars on their research. Dr. Nicolas Musi from University of Texas HSC presented a seminar titled “Metabolic endotoxemia and insulin resistance” on October 6, 2011. Dr. Zhigang Xiong from Morehouse School of Medicine presented a seminar titled “ASICs as novel target for neurological disorder” on January 19, 2012. Dr. John McLaughlin from Ohio State University COM presented a seminar titled “Transplant models of patient-specific gamete-derived pluripotent stem cells” on February 23, 2012. Dr. Steven Green from University of Iowa presented a seminar titled “A culture of noise: An in vitro approach to the study of acoustic trauma” on April 26, 2012. Dr. Yidong Bai from University of Texas HSC presented a seminar titled “The role of mitochondrial respiratory complex I in tumorigenesis” on May 3, 2012.

In the area of education, the Department continued to provide over 30% of the instruction given to medical students in the first two years. The mean scores of our first year medical students on the mini board in both Gross and Developmental Anatomy and Cell Biology and Histology were over the 70th percentile. For second year medical students, the Department continued to play a leading role in the presentation of the Neuroscience course. The class average on the Neuroscience mini board was over the 90th percentile for the fourth straight year. These high miniboard scores clearly demonstrate that the quality of instruction provided by this Department is among the best in the country. In addition, faculty members from this Department taught Parasitology in the Medical Microbiology course and participated in the teaching of IDL I and IDL II, the Methods course and the Seminar course for first year graduate students. Moreover, they taught in IDL 630 and 631 for more advanced graduate students. In the area of resident training, a course on Pelvic Anatomy was provided for Residents in the Department of Obstetrics and Gynecology. Additionally, Allied Health courses were presented on Gross Anatomy for both Physician’s Assistant students and Physical Therapy students, Neuroanatomy for Physical Therapy Students, Histology and Cell Biology for Biomedical Sciences students, and Anatomy and Physiology for Biomedical Science students. In addition, an Anatomy Laboratory was presented for Nursing Students. Finally, the Department presented two courses in the DREAM Program. In total, the Departmental faculty performed over 1360 hours of teaching. In the new curriculum, the Departmental faculty members continue to play key roles. Four faculty members serve as module directors and almost all of the faculty have important assignments within the modules.

In the area of community service, the Department expanded its efforts and provided health related education to over 750 high school and middle school students. Additionally, we played an integral part in the SCRUBS Program to attract students into the Health Professions.
Due to budgetary constraints, the Department was unable to recruit any new faculty over the past year. However, it is still a goal to increase the Neuroscience focus when it is possible to identify new faculty in the future. Over the past year, we lost two faculty members. Dr. Valentina Grishko died following a courageous bout with colon cancer. She was an outstanding scientist, and she will be greatly missed. Dr. Wensheng Lin left to take a faculty position at the University of Minnesota.
2011-2012
Summary of Scholarly Activities
Department of Comparative Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

Srivastava SK, Arora B, Bhardwaj A, Scammell JG, Owen LB, Grizzle WE, Singh AP, Singh S. Evidence supporting a role for FKBP51 in melanoma pathogenesis. Cancer Res. 2012 Apr 15;72(8 suppl 1): A84. Available from: http://cancerres.aacrjournals.org/cgi/content/meeting_abstract/72/8_MeetingAbstracts/84

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Neuroscience Institute, Morehouse School of Medicine; 2012 Feb 24; Atlanta, GA.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Stark Neurosciences Research Institute, Indiana University School of Medicine; 2012 Mar 13; Indianapolis, IN.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Center for Molecular Medicine and Genetics, Wayne State University; 2012 Apr 24; Detroit, MI.

Lin W. Invited speaker. The unfolded protein response in immune-mediated demyelinating diseases. Hunter James Kelly Research Institute, University of Buffalo; 2012 May 10; Buffalo, NY.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Jonathan G. Scammell serves on the Editorial Advisory Board of the Journal of Pharmacology and Experimental Therapeutics. He also served as a reviewer for Biochemical Pharmacology and the American Journal of Physiology.

Dr. A. Michele Schuler served as a reviewer for the American Journal of Primatology, the Journal of Medical Primatology, Journal of the American Association of Laboratory Animal Science, and Comparative Medicine. Dr. Schuler is a recipient of a Special Emphasis Research Career Award from the National Center for Research Resources of the National Institutes of Health.

Dr. Wensheng Lin, joint appointee with the Department of Cell Biology and Neuroscience, served as a reviewer for Acta Neuropathologica and Journal of Cellular Biochemistry. Dr. Lin received a five-year NIH grant “The effects of the unfolded protein response on medulloblastoma.”

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The faculty and staff of the Department of Comparative Medicine participate in service, education, and research in the university’s animal care and use program. The department continues to upgrade and maximize the use of facilities with the goal of enhancing research capabilities for the benefit of investigators throughout the university. The department supports the operation of the Vevo high resolution ultrasound imaging system from VisualSonics, the hypoxia core for the development of pulmonary hypertensive rodents, the Pseudomonas delivery core, and histology services. Drs. Schuler and Scammell have been active consultants in the design of the animal facilities in the new Laboratory of Infectious Diseases building. The program received notification of BSL-3 re-accreditation by AAALAC International in November 2011.

The faculty continued formal and informal educational commitments within the department to technical staff, supervisors, and colleagues and outside the department to graduate students, postdoctoral fellows, and faculty.
The department hosted Dr. Brian Popko, Jack Miller Professor in Neurological Disorders at the University of Chicago, who presented a seminar “Myelin Repair” in the Distinguished Scientist Seminar Series.

At the end of August, we bid farewell to Dr. Wensheng Lin, Assistant Professor, who accepted a position as Institute for Translational Neuroscience Scholar and member of the Neurodegenerative Disease Center at the University of Minnesota. We thank Wensheng for his contributions to the department and wish him every success in his new position.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Available from: http://ac.els-cdn.com/S0736467911010262/1-s2.0-S0736467911010262-
main.pdf?_tid=5bc35d20-282a-11e2-8cc6-00000aacb35d&acdnat=1352217496_c29e728
8b9e0f5fc1968633174d92cf8

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Pettyjohn F, McGhee JS, Quattlebaum MD, McKeon JF. Invited speakers. Sarcoid in
aircrew aeromedical risk re-visited. 60th International Congress of Aviation and Space
Medicine; 2012 Sep 19; Melbourne, Australia.

Pettyjohn F. Invited speaker. A lot of blood and how do I stop it? Alabama Gulf EMS
System Conference; 2012 Sep 6; Mobile, AL.

Ambrose M. Invited speaker. Practical approaches to common head injury challenges.
Alabama Gulf EMS System Conference; 2012 Sep 6; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Michael R. Ambrose serves as a member of the Secretary of Veterans Affairs Advisory
Committee for Former Prisoners of War.

Antonio L. Pacheco serves in the following positions: Member, Communication and
Technology Committee, Member, Alabama College of Emergency Physicians (Alabama
Chapter).

Frank S. Pettyjohn serves in the following positions: Cardiology Consultant to the
Federal Aviation Administration; Board of Directors and Past-President, International
Academy of Aviation and Space Medicine; Board of Directors, American College of
Emergency Physicians (Alabama Chapter); Alternate Councilor, American College of
Emergency Physicians; Medical Director, Region 6 State of Alabama (Gulf Coast) EMS
Region.
Terry N. Rivers serves in the following positions: Member, Emergency Medicine Services Committee, Member, Alabama College of Emergency Physicians (Alabama Chapter).

Michael L. Sternberg serves in the following positions: Board of Directors, Southwest Alabama Emergency Medicine Services; Chairman, Bylaws Committee, American College of Emergency Physicians (Alabama Chapter); Public Relations Committee, American College of Emergency Physicians (Alabama Chapter).

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Emergency Medicine emphasizes excellence in Clinical Emergency Medicine, education of housestaff and medical students, and the ongoing academic development of the Faculty. The primary objective is to develop and implement broad-based educational programs utilizing bedside clinical teaching and advanced educational technologies.

The goal of acquiring a full Residency Program in Emergency Medicine remains a high priority. It is fully supported by the Dean, College of Medicine, Vice President for Health Sciences, and the Faculty. Recruitment of additional faculty is underway to maintain clinical capabilities, enhance the teaching program, and provide the core Faculty for the Emergency Medicine Residency Program.

EDUCATION: The Faculty of the Department of Emergency Medicine continues to emphasize education. The Emergency Medicine Interest Group has been reconstituted to further Emergency Medicine education. Medical students continue to voluntarily select the Emergency Medicine rotation as one of the most sought after electives in the College of Medicine.

The Department of Emergency Medicine provides core faculty for the Ethics in Clinical Medicine course in the second year. Michael Sternberg, M.D. directs the teaching activities for the third- and fourth-year medical student elective and the Acting Intern Program. Frank S. Pettyjohn, M.D. serves as Medical Director, School of Continuing Education, EMS Training Program providing education for Physicians, Housestaff, Medical Students and Emergency Medical Technicians/Paramedics.

RECRUITING PROGRESS: The recruiting program continues to be active with the goal of obtaining Emergency Medicine Residency Trained and Board Certified Emergency Medicine Physicians to meet the Emergency Medicine Residency Review Committee requirements.

FACULTY DEVELOPMENT: Michael L. Sternberg, M.D. serves as Director for the Emergency Medicine Residency Program development. Participation by faculty in national Alabama College of Emergency Physicians Medical Director and leadership courses are considered a priority.
**CLINICAL FACILITIES:** During the 2011-2012 program year, the Department of Emergency Medicine continued to support the operations of the University of South Alabama Medical Center, Level I Trauma Center, Burn Center, and Emergency Department.

The overall computer support system in the University of South Alabama Medical Center Emergency Department has implemented an upgraded hospital intranet providing ready access to clinical laboratory records and radiology data. An Electronic Medical Record System (EMR) is scheduled for implementation in 2nd quarter of fiscal year 2013. The ED has updated the computer and viewing screens for teleradiology which provides the same resolution as the Department of Radiology. A telemedicine capability in the Emergency Medicine Conference Room facilitates educational conferences by national and international experts along with the internal programs of Medicine and Surgery.

Close coordination between the University of South Alabama Medical Center, Level I Trauma Center, and the Children’s and Women’s Evaluation Center has been maintained to provide rapid response for appropriate patient care and transfer requests. Coordination is also maintained between the Department of Obstetrics/Gynecology at the U.S.A. Children’s and Women’s Hospital and the U.S.A. Medical Center Emergency Department to provide rapid treatment capabilities for adult patients presenting to Children’s and Women’s Hospital with acute medical or surgical conditions.

**RESEARCH:** The Division of Clinical Research entered the seventeenth year of operation. The primary clinical site is the Moorer Building, located on the University of South Alabama Medical Center Campus. The program is under the direction of the Principal Investigator, Frank S. Pettyjohn, M.D., with Afifa Halim-Kirolos, M.D., as the Director of the Clinical Research Division. All members of the Attending Faculty of the Department of Emergency Medicine support the ongoing clinical research studies. Current projects cover a wide range of clinical areas, ranging from anti-hypertensive agent trials, and combined hypertension with diabetes trials. This clinical research provides a unique opportunity, clinical support, and an educational venue for the Department of Emergency Medicine.
Summary of Scholarly Activities
Department of Family Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Bettencourt RB, Goldstone A, Linder MM. Invited speakers. Athlete with sickle cell trait and thalamic stroke. American Medical Society for Sports Medicine 21st Annual Meeting; 2012 Apr 22; Tampa, FL.

Cox JL, Duffy RL. Invited speakers. Patient transit time study 2011. Alabama Academy of Family Physicians Mid-Winter Meeting; 2011 Dec 3; Birmingham, AL.

Duffy RL. Invited speaker. NextGen EHR demonstration and discussion. Medical Association of the State of Alabama Third Annual Technology Symposium; 2012 Feb 10; Birmingham, AL.

Goldstone A, Linder MM. Invited speakers. 20 year old African American female with sickle cell trait complains of inability to control eyes. American Medical Society for Sports Medicine 21st Annual Meeting; 2012 Apr 22; Tampa, FL.


Linder MM. Invited speaker. Overuse injuries in the upper extremity. ENCORE Sports Medicine Symposium; 2012 Jul 21; Orange Beach, AL.
Perkins A. Invited speaker. This is not your grandfather’s LCME. Changes in LCME accreditation standards. Association of Departments of Family Medicine Winter Meeting; 2012 Feb 24; Rancho Mirage, CA.


V. NATIONAL PROFESSIONAL RECOGNITION

Ehab A. Molokhia: Serves as Vice Chair, Alabama Breastfeeding Committee.

R. Allen Perkins: Is Peer Reviewer for *Family Medicine*. Serves as President, Alabama Academy of Family Physicians; President, Alabama Rural Health Association; Member, Alabama Academic Family Medicine Council; Member, Alabama Statewide Area Health Education Centers Advisory Council; Breakfast Coordinator, 2012 Winter Meeting of the Association of Departments of Family Medicine and Program Committee Chair, 2013 Winter Meeting; Member, Patient-Centered Primary Care *Ad Hoc* Subcommittee of the Association of Departments of Family Medicine.

Dr. Perkins served as a moderator for the panel discussion entitled, “The key role of primary care providers in the management of patients with RA” at the Medscape/CAFP Multidisciplinary CME Panel Discussion held on July 13, 2012 in Denver, Colorado.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Gerald Liu joined the faculty in July as Assistant Professor after having graduated from the Family Medicine residency program wherein he served as Co-chief Resident. Dr. Liu has been working with a team from the Department in collaboration with the Mitchell Cancer Institute to devise methods to improve early colon cancer detection in rural Alabama. He has also been accepted as a 2012-2013 Grant Generating Project Fellow at Virginia Commonwealth University.

Dr. Michael Linder and Dr. Carol Motley were honored by the Family Medicine graduating residents as “Clinical Teachers of the Year.”

Dr. Ehab Molokhia, Dr. Carol Motley and Dr. Allen Perkins were recognized by the College of Medicine by the Class of 2012 as Distinguished Faculty.

Dr. Allen Perkins was the recipient of the VIA! Center’s Leadership Award for his efforts to secure HRSA Title VII grant funding for improving the Geriatrics education of Family Medicine residents. In conjunction with this training, Dr. Shyla Reddy, the department’s Geriatrician, has been able to deliver care on-site at the Central Plaza Towers and provide on-site health education and screening services at VIA!
Dr. Ehab Molokhia completed his Masters of Public Health at the University of Alabama-Birmingham in August. He has also assumed the role of Program Director for the Family Medicine Residency Program. Dr. Mike Linder will continue to lead the Primary Care Sports Medicine Fellowship.

Dr. Gerald Liu and Dr. Ehab Molokhia were awarded $5,000 to assess the national curriculum for training Family Medicine residents in immunization administration by the Association of Family Medicine Residency Directors. The assessment entailed surveying 400 residency programs and over 1,200 residents. This data were presented to the Association and will be presented to the membership at its annual meeting.

The department was very active in the curriculum change efforts of the medical school. Dr. Mike Linder is the Musculoskeletal Module Co-Director. Dr. Shyla Reddy is a thread leader for the Geriatrics thread which occurs across the 4 years of medical school. Dr. Carol Motley is the thread leader for the Humanism thread, which has been designated essential, occurring across the 4 years of medical school. Dr. Motley is instituting the Longitudinal Experience in Primary Care which begins in year 1 and extends into year 2.

Dr. Lamar Duffy continues to be the lead physician for NextGen electronic health record implementation throughout the health care enterprise.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Hill JK, Mulekar S, Pastukh VM, Gillespie MN. Mitochondrial DNA damage-associated molecular patterns are released in response to oxidant stress in rat pulmonary artery endothelial cells. FASEB J. 2012 Apr 1;26:1130.12.


Sykora J, Bell M, Rutecki GW. Eosinophilic coincidence or new disease: is there a Churg Strauss-Wells syndrome? Alabama Regional America College of Physicians’ 2012 Annual Meeting; 2012 Jun 3, Orange Beach, AL. Abstract no. Poster no. 2.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Alvarez DF. Invited speaker. NAP1 and NAP2 determine the highly proliferative behavior of endothelial cells. Rush University; 2012 Mar 21; Chicago, IL.


Crook ED. Invited speaker. Health disparities in diabetes, obesity and metabolic syndrome. Lunch and Learn, Our Neighborhood Health Clinic, College of Nursing; 2012 May 17; Mobile, AL.


Culpepper RM. Invited speaker. The case for dietary salt reduction in cardio-vascular disease. Mobile Infirmary Grand Rounds; 2012 Jun 19; Mobile, AL.

de Melo SW Jr. Invited speaker. Minimally invasive endoscopic techniques for the complications of acute pancreatitis. 3rd Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 22; Mobile, AL.

Di Palma JA. Invited speaker. Constipation. University of Texas Health Services Center at San Antonio Division of Gastroenterology Fellows; 2011 Oct 6; San Antonio, TX.


Di Palma JA. Invited speaker. Irritable bowel syndrome with constipation. University of Oklahoma, Division of Gastroenterology Fellows; 2011 Nov 15; Oklahoma City, OK.

Fagan KA. Invited speaker. Diagnosis and management of pulmonary arterial hypertension. National Jewish Medical and Research Center Medical Grand Rounds; 2012 Feb 6; Denver, CO.


Fagan KA. Invited speaker. Future of clinical trials in pulmonary arterial hypertension. NIH Pulmonary Vascular Disease Workshop 2012; 2012 Feb 17; Bethesda, MD.


Gerthoffer WT. Invited speaker. MicroRNAs and smooth muscle phenotype. Department of Cell Physiology and Molecular Biophysics, Texas Tech University; 2011 Oct 13; Lubbock, TX.

Gerthoffer WT. Invited speaker. MicroRNAs and smooth muscle phenotype. Stitzel Lecturer, West Virginia University; 2011 Oct 26; Morgantown, WV.


Gillespie MN. Invited speaker. Novel targets for pharmacologic intervention in acute lung injury. Regional Meeting, Gulf Coast Trauma Meeting 2012; 2012 Mar 22; Spanish Fort, AL.

Herrera JL. Invited speaker. Approach to abnormal liver tests. American College of Physicians, Alabama Chapter 2011; 2011 Oct 7; Point Clear, AL.
Herrera JL. Invited speaker. Future directions for finding a cure in hepatitis B. University of Virginia; 2011 Oct 10; Charlottesville, VA.

Herrera JL. Invited speaker. Difficult hepatitis B infection cases. University of Rochester; 2012 May 15; Rochester, NY.

Massey CM. Invited speaker. Heart disease in women. 2nd Annual Go Red for Women Symposium; 2012 Feb 14; Mobile, AL.

Townsley M. Invited speaker. TRPV4, lung endothelium, and acute lung injury, lessons in diversity. Department of Physiology, University of Mississippi Medical Center; 2012 May 16; Jackson, MS.

Townsley M. Invited speaker. Interstitial barriers and fluid balance in the lungs. The Lung In Congenital Heart Disease: Symposium. AHA Scientific Sessions 2011; 2011 Nov 15; Orlando, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Ronald C. Allison: 1993 – present – Department of Medicine Resident Evaluation Committee; 1991 – present – Department of Medicine Education Committee; 2007 – present – CoARC.

Errol Crook: Community and academia: partners for eliminating health disparities and promoting equity in care. Center for Healthy Communities 2012 Annual Symposium Organizing Committee Meeting; 2012 Apr 13; Mobile, AL.


Barney B. Beaver: Advisory Board: Boston Scientific Corporation.
Eduardo G. Calderón: Director, Tuberculosis Clinic at the Mobile County Health Department; Member, Tuberculosis Medical Advisory Council for the State of Alabama Department of Public Health.


Karen A. Fagan: Study sections for grant review, American Heart Association; Innovation Grants review panel member, American Heart Association; Molecular and cell signaling member, NIH; Special emphasis review panel – Clinical trials in lung disease member, American Thoracic Society; Proof of concept grant review panel – ad hoc member, journal editor or editorial board member Editorial Board – Pulmonary Circulation Journal; Editorial Board – Advances in Pulmonary Hypertension; Guest editor – Advances in Pulmonary Hypertension; Medical Editor – Pathlights Journal of the Pulmonary Hypertension Association Journal; peer review Circulation Journal, American Journal of Physiology, American Journal of Respiratory Cell and Molecular Biology, American Journal of Respiratory and Critical Care Medicine, Chest Journal, European Respiratory Journal. Speaker/organizer Annual Tri-State Thoracic Conference 2012; 2012 Jan 14; New Orleans, LA.

Brian W. Fouty: Study sections for grant review - National Institutes of Health, Small Business Respiratory Sciences Study Section; journal peer review - American Journal of Physiology; manuscript reviewer, American Journal of Respiratory and Critical Care Medicine.

William T. Gerthoffer: Editorial board member - American Journal of Physiology, Cell Physiology; editorial board member - American Journal of Physiology, Lung Cell and Molecular; editorial board member - Cell Health and Cytoskeleton; Associate Editor - Comprehensive Physiology, Respiratory Physiology;

Planning Committee chair, RSF Assembly of the American Thoracic Society; (ad hoc), reviewer - NIH VCMB study section; (ad hoc), reviewer - NIH Surgical Sciences, Biomedical Imaging, and Bioengineering SEP.

Mark N. Gillespie: Editorial board - American Journal of Physiology, Lung Cell and Molecular Physiology; Editorial board - American Journal of Respiratory Cell and Molecular Biology; Program, Leadership, and Long Range Planning Committees - American Thoracic Society; Ad hoc member of NIH study sections (1), Special Emphasis Panel (2), RIBT (1) American Lung Association Research Peer Review panel, Manuscript reviewer for all major journals relevant to my field of research.
William K. Green: Chairperson, Board of Directors at South Alabama Community AIDS Resources, Education and Support (CARES); Chairperson, Alabama Medicaid Drug Utilization Review Committee.


Grace Hundley: Invited Poster Judge. National Associate Poster Competition Internal Medicine Meeting. 2012 April 20; New Orleans, LA.


Masahiko Oka: Served as ad hoc manuscript peer reviewer for the following journals - American Journal of Physiology Lung, Cardiovascular Research, Circulation, Circulation Journal, European Respiratory Journal; Expert Opinion On Investigational Drugs - J Throm Haemost, PLoS ONE; ad hoc grant peer reviewer - The French National Research Agency; facilitator - poster session at the ATS 2012 meeting.

GW Rutecki: Peer reviewer, Academic Medicine Journal, Southern Medical Journal; Editor, Consultant “Top Paper of the Month,” Reviewer, Consultant Photo Quiz; Editor, Consultant Hypertension Section; Contributor, McMaster Online rating of Evidence; Consumers Research Council of America “Top Physicians.”

Troy Stevens: Associate Editor - American Journal of Physiology Lung (term ended 2012); Program Project Grant Review – NIH Program; Project Grant External Advisor - Medical College of Georgia and University of Pennsylvania; SEP Grant Review – NIH; Ad Hoc Reviewer - RIBT.

John A. Vande Waa: Principal Investigator, Health Resources and Services Administration Grant for Ryan White Care Act IV Family HIV Clinic; Member, the American Society of Tropical Medicine and Hygiene; Member, the Infectious Disease Society of America.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Education

The department has continued to receive excellent evaluations from medical students and residents for its educational activities. For over 10 consecutive years, the Internal Medicine Clerkship has been recognized as the best clerkship for third year medical students. The Class of 2012 again honored the department with this award. Several of the departmental faculty were recognized with the red sash award for their educational efforts.

Department members have been instrumental in developing the new curriculum for the medical school. Clearly, the department continues to meet its educational mission and is being recognized by its chief customer, the pupils, for success in this endeavor.

Scholarly Efforts

The department has continued to be productive in scholarly achievements, particularly in the area of publications. Again, the Divisions of Gastroenterology, Pulmonary and Critical Care and Nephrology had particularly successful years in the arena. The residents have been active in scholarly activity primarily through case reports and presentations at regional meetings.

There are several clinical trials led by department of medicine faculty. The Division of Gastroenterology continues to have a robust clinical studies portfolio. Cardiology has six multi-center trials underway and have partnered with Dr. William Gerthoffer, Chair Department of Biochemistry, in a translational project funded through the Center for Healthy Communities P-20 Grant. This unique award examines the role of a protein, HSP27, as a unique marker of atherosclerosis and its potential contribution to health disparities seen in cardiovascular disease in African-American populations. The Division of Nephrology has several multi-center trials with newer ones focused in lupus nephritis and polycystic kidney disease. The Division of Pulmonary has continued its partnership with the Center for Lung Biology on studies in pulmonary hypertension. In addition,
members of the division have been instrumental in the development of a unique translational program project grant to be submitted to the NIH this fall.

Service

The department continues to deliver excellent clinical service. There are some new services that are worthy of mention. Dr. Clara Massey, Chief Division of Cardiology, has led a significant effort to revamp cardiovascular services at the University of South Alabama Medical Center with a particular emphasis on cardio thoracic surgical cases. She has led the effort to reassemble a multi-disciplinary team which has led to improvement in outcomes in cardiovascular cases. The Division of Gastroenterology has continued to grow its services for advance endoscopy procedures. These advancements have enhanced partnerships with the Mitchell Cancer Institute and are able to address ablations of GI tumors and Barrett’s esophagus through endoscope procedures. The Division of Nephrology continues to expand its options for renal replacement therapy for both in-center hemodialysis and home dialysis.

Departmental faculty continues to serve on editorial boards, as journal reviewers, on advisory boards, and on grant review panels. The faculty has contributed significantly to the University and Greater Mobile Community.
2011-2012
Summary of Scholarly Activities
Department of Microbiology and Immunology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Dillon M, Nuti DE, Brett PJ, Burtnick MN, AuCoin DP. Development of a mAb library targeting the capsular polysaccharide of *Burkholderia pseudomallei*. Pacific Southwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, Eighth Annual Meeting; 2012 Jul 29-31; Olympic Valley, CA. Abstract no. 6.


### III. PUBLISHED BOOKS


### IV. INVITED PRESENTATIONS

Audia JP. Invited speaker. The obligate intracellular pathogen as the ultimate cell biologist. University of Calgary; 2011 Oct 11; Calgary, Alberta, Canada.

Brett PJ. Invited speaker. Development of glycoconjugate vaccines for immunization against melioidosis and glanders. Department of Infection, Immunity and Inflammation, University of Leicester; 2012 Feb 29; Leicester, UK.

Brett PJ. Invited speaker. Development of glycoconjugate vaccines for immunization against melioidosis and glanders. Sanford School of Medicine, University of South Dakota; 2012 Mar 30; Vermillion, SD.

Brett PJ. Invited speaker. Molecular insights into the pathogenesis of melioidosis and glanders. Banff Conference on Infectious Diseases; 2012 May 15; Banff, Alberta, Canada.

Brett PJ. Invited speaker. Molecular insights into the pathogenesis of melioidosis and glanders. Laboratory of Zoonotic Pathogens, Rocky Mountain Laboratories, NIAID, NIH; 2012 Jun 20; Hamilton, MT.

Brett PJ. Invited speaker. Development of glycoconjugate vaccines for immunization against melioidosis and glanders. Pacific Southwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, Eighth Annual Meeting; 2012 Jul 31; Olympic Valley, CA.

Burtnick MN. Invited speaker. Interactions of *Burkholderia mallei* and *Burkholderia pseudomallei* with phagocytic cells. Department of Infection, Immunity and Inflammation, University of Leicester; 2012 Feb 29; Leicester, UK.

Burtnick MN. Invited speaker. Interactions of *Burkholderia mallei* and *Burkholderia pseudomallei* with phagocytic cells. Defense Science & Technology Laboratory, Porton Down; 2012 Mar 2; Salisbury, UK.

Burtnick MN. Invited speaker. Influence of *Burkholderia mallei* T6SS-1 on host-pathogen interactions. Laboratory of Zoonotic Pathogens, Rocky Mountain Laboratories, NIAID, NIH; 2012 Jun 22; Hamilton, MT.

Burtnick MN. Invited speaker. Insights into the complex regulation of *Burkholderia mallei* T6SS-1. Pacific Southwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Research, Eighth Annual Meeting; 2012 Jul 30; Olympic Valley, CA.

V. NATIONAL PROFESSIONAL RECOGNITION


Paul J. Brett: Ad Hoc Reviewer, *Applied and Environmental Microbiology*, *BMC Veterinary Research*, *Central European Journal of Biology*, *Clinical and Vaccine Immunology*, *FEBS Microbiology Letters*, *Infection and Immunity*, *Journal of Clinical...
Microbiology, Journal of Proteome Research, Microbial Pathogenesis, Molecular Microbiology, PLoS One.

Joseph W. Brewer: Ad Hoc Reviewer, Journal of Immunology, Nature Immunology, Journal of Cellular Biochemistry, Oncogene; Ad Hoc Grant Reviewer, United States Israel Binational Science Foundation.

Mary N. Burtnick: Ad Hoc Peer Reviewer, BMC Genomics, Clinical and Vaccine Immunology, Frontiers in Cellular and Infection Microbiology, Infection and Immunity.


John W. Foster: Reviewer, Science, Nucleic Acids Research, Journal of Bacteriology, Microbiology, Molecular Microbiology, Chemical and Engineering News, Microbiology and Immunology.

David O. Wood: Chair, American Society for Microbiology (ASM) Membership Committee; Member, ASM Committee on Ethics; Editorial Board, ASM’s Infection and Immunity; Member, Association of Microbiology and Immunology Chairs. Ad Hoc Reviewer, Journal of Applied and Environmental Microbiology, Journal of Bacteriology, PLoS One, and PLoS Pathogens.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

This year’s departmental report is dedicated to Dr. James Rohrer, who passed away unexpectedly October 25, 2011. Jim dedicated 31 years of service to the Department and contributed substantially to our teaching and service commitments. His final publication is included in this report. Jim’s collaborative research with former Chair, Dr. Joseph Coggin (deceased) and Dr. Adel Barsoum led to clinical trials of an oncofetal antigen cancer vaccine. His death was a great loss to our department and to advances in cancer research.

Two departmental students, Dr. Amanda Beaster and Dr. Aimee Tucker completed their dissertations under the direction of Dr. Wood and received Ph.D. degrees this year. Dr. Beaster is currently a Research Associate at MMS Holdings Inc. a pharmaceutical service organization that focuses on regulatory submission support for the pharmaceutical, biotech and medical device industries. Dr. Tucker currently holds a postdoctoral position in Dr. Wood’s laboratory.

Dr. Terrence Tumpey, Senior Microbiologist and Team Leader of the Influenza Division at the Centers for Disease Control and one of the Department’s former students (Ph.D. 1997) received the University of South Alabama Distinguished Alumni award.

Drs. Audia, Brett, Burtnick, and Wood, along with colleagues (Drs. Scammell and Schuler) in the Department of Comparative Medicine, continue contributing to construction plan development for the Laboratory of Infectious Diseases (LID) funded by
a C06 grant. This grant provided $14,506,327 for the construction of a 25,800 square foot BSL2/BSL3 laboratory building. The LID is scheduled to be completed by Fall, 2013.

The Department’s research programs remain a major focus of faculty activities. Examining the molecular mechanism underlying the pathogenicity of the Biosafety Level 3 (BSL-3) intracellular pathogens *Rickettsia prowazekii*, *Burkholderia mallei* and *Burkholderia pseudomallei*, conducted by Drs. Audia, Brett, Burtnick and Wood, represents a major area of research within the department.

The bacterial pathogen group also includes Dr. Foster who continues his work on the physiology and genetics of enteric pathogens. This group is complemented by Dr. Fortwendel who focuses on deciphering the pathogenic mechanisms of the fungal pathogen *Aspergillus fumigates*. The departmental Immunology group, consisting of Drs. Barrington and Brewer, focuses on examining the regulation of B cell fate and the unfolded protein response of cells under stress. Despite the problems facing NIH funding, departmental investigators continue to be productive and to actively pursue support for their research efforts. Five faculty members currently have extramural funding.

The Department remains committed to excellence in teaching. All of the faculty are contributing to the new medical curriculum and are doing double duty this Fall as participants in the 39th and final traditional Medical Microbiology and Immunology course. Dr. Foster continues to serve as course director for this course. Drs. Foster and Brewer have been especially active as effective leaders in course development and organization of departmental contributions to the new curriculum, and in the generation of team-based learning (TBL) exercises. The departmental transition to a TBL approach that incorporates case studies and correlations presented by our clinical colleagues began before establishment of the new curriculum and has been an effective addition to our teaching efforts in the area of infectious diseases and host response.

In the graduate program, faculty members also participated in the interdisciplinary graduate level courses IDL 580 and IDL 581. The Department is in the process of developing a new graduate training track to be designated Infectious Diseases and Host Defense.

Drs. Barrington, Brewer, Cioffi and Lin organized the Host Defense and Human Disease Group.

Dr. Brewer was appointed as Director of the Basic Medical Science Interdisciplinary Graduate Program.

The Department hosted two scientists for the Distinguished Scientist Seminar Series who presented outstanding seminars and met with the departmental faculty and students. Alfredo Torres, Ph.D., associate professor and co-director of BSL-3 Labs for the microbiology and immunology and pathology department at the University of Texas
Medical Branch in Galveston, Texas presented a seminar entitled "To see Burkholderia Mallei, or not to cure glanders, that is the host question.” Kathryn Haskins, Ph.D. a professor of Immunology from Integrated Department of Immunology, National Jewish Health and University of Colorado Denver School of Medicine Anschutz Medical Campus, Denver, Colorado presented a seminar entitled “Pathogenic CD4T cells in type 1 diabetes and their autoantigens.”
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Bassam BA. Invited speaker. Approach to the patient with hereditary neuropathy. San Diego Neurological Society Meeting; 2012 Jun 21; San Diego, CA.

Cordina SM. Invited speaker. Induced hypertension in post thrombolytic patients. International Congress of Interventional Neurology; 2011 Oct 7; Minneapolis, MN.

Cordina SM. Invited speaker. Update on stroke treatment. 1st Annual Stroke Care Symposium; 2012 May 25; Biloxi, MS.

Cordina SM. Invited speaker. Women and stroke. University of South Alabama and American Heart Association: Go Red for Women Symposium; 2012 Feb 14; Mobile, AL.
Cordina SM. Invited speaker. Starting an endovascular practice in an academic setting. 2nd Annual International Congress of Interventional Neurology; 2012 Sep 7; Minneapolis, MN.

Naritoku D. Invited speaker. Grand Rounds, LSU Oschner; 2011 Oct 6; Baton Rouge, LA.

Naritoku D. Invited speaker. Epilepsy Education Program Mini Fellowship. Wake Forest University; 2011 Oct 17-20; Winston-Salem, NC.

V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam: Neuromuscular update committee member, American Association of Neuromuscular and Electrodiagnostic Medicine; Committee member and national board examination supervisor, American Board of Electrodiagnostic Medicine Examination; Member and Reviewer Network Subcommittee member, American Academy of Neurology Guidelines Reviewers; Ad Hoc Reviewer, *Muscle and Nerve Journal, Clinical Neuromuscular Journal* and *Headache Journal*; Grant reviewer panel member, FDA/Office of Orphan Products Development; Member at Large, Alabama Quality Assurance Foundation.

Steve M. Cordina: Member, American Heart Association; Member, American Stroke Association; Member, American Academy of Neurology; member, Society of Neurointerventional Surgery; Member, Society of Vascular and Interventional Neurology; Member, Neurocritical Care Society; Member, Medical Association of Malta.

Daniel D. Dees: Member, American Academy of Neurology; Member, Movement Disorders Society.

Christopher Eckstein: Member, American Academy of Neurology; Member, National Multiple Sclerosis Society; Member, Clinical Advisory Team Committee, National Multiple Sclerosis Society.

Paul Maertens: Editorial Board Member, *Journal of Neuroimaging*; Member, Examination Committee of the Society of Neuroimaging; Member, ASN Program Committee; Member, American Society of Neuroimaging; Member, Membership Committee, American Epilepsy Society; President, Southern Pediatric Neurology Society.

Dean K. Naritoku: Scientific Committee, American Epilepsy Society; Task Force on Brain Stimulation, American Epilepsy Society; Board Member, American Board of Clinical Pharmacology; Board Member, J. Kiffen Penry Minifellowship Program; Member, American Academy of Neurology, American Epilepsy Society, American Society of Clinical Pharmacology and Therapeutics. Best Doctors in America® 2007-2012; Editorial Board Member, *Neurology Research*. 
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology continued its growth during FY ‘12, with improved performance in education, research and clinical care. With the addition of two faculty members in July 2011, and another in July 2012, the Department now has tertiary programs in nearly every subspecialty in neurology.

The department continues its tradition of multidisciplinary program development, both in research and clinical areas, and has added several adjunct appointments in related neuroscience areas that both recognize and foster the adjunct appointments’ contributions.

In the area of education, the 3rd year clerkship has been modified to bring direct interactivity between students and subspecialty cares. Students are directly involved in evaluation and observation of epilepsy patients in our monitoring unit, observe intracranial interventions for stroke, intracerebral aneurysms and AVMs, and participate in our subspecialty clinics for movement disorders and multiple sclerosis. Formal recognition of teaching excellence by the medical students is evidenced by two of our 6 faculty receiving the “Red Sash” award from the 2012 graduating class and both resident and faculty awards for Humanitarianism awarded to a neurology resident (Gore) and faculty (Eckstein). Enthusiasm for the clerkship is reflected in seven students in the rising senior class who have declared their interest in Neurology Residency training. A recent abstract on team based learning in neurology residency training was presented last spring at the American Academy of Neurology.

Over the last year, the Department of Neurology has launched and developed a Neuroscience Research Group at USA which has recruited several faculties from clinical and basic neurosciences. The research group meets monthly, and involves presentations by faculty and fosters interdisciplinary collaborations and research projects. These efforts have already resulted in the generation of several protocols that have generated modest internal funding. One protocol (Liu, Eckstein and Martino) involves collaboration between the USA Gait Lab, Neurosurgery and our multiple sclerosis program and will examine gait changes in persons with MS. This project has received funding from USACOM for a summer student to work on this project. Another protocol (Evans and Ochoa) involves collaboration between USA Speech Pathology and our epilepsy group, which will formally evaluate language disability before and after epilepsy surgery. This project has received a small interdisciplinary research award from USA. A major project is underway to examine nonlinear neuronal activity recorded from deep brain in patients with Parkinson’s disease (Darbin). This is a multicenter study with collaboration from UAB and Scott and White University in Temple, TX.
It is anticipated that the information generated will provide important preliminary data for NIH funding, and will dovetail into our new DBS center that is expected to be online during FY 2013. Grants have been submitted for external funding to the American Heart Association, National MS Society and to NINDS but have not yet been funded.

The department has sharply increased the number of peer-reviewed original publications (see listings by individuals).

There has been a large expansion of clinical programs offered by the USA Department of Neurology, which directly support our educational and research missions. Two new faculty members have joined the department and bring new expertise to the Gulf Region. Dr. Eckstein is a neuroimmunologist who recently completed a two-year fellowship in MS and neuroimmunology at Johns Hopkins University. He has built a highly sought program for persons with intractable MS, neurosarcoïd and other neuroimmunological disorders. Dr. Cordina is the first specialist in interventional neurology in the Gulf Region. He completed a two year fellowship in Endovascular Surgical Neuroradiology at the University of Minnesota, Minneapolis. He serves at the Director of the Stroke Program at USA and has already performed many thrombus retrievals for stroke, coiling of aneurysms and occlusions of arterial venous malformations at the USA Medical Center. Dr. Dees, who is a specialist in Parkinson Disease and Movement Disorders has started in July, 2012 and will be building a deep brain stimulation program for patients with intractable tremor and end-stage Parkinson Disease. These programs will directly intertwine with our basic research programs. In conjunction with the Department of Neurosurgery, we have launched our epilepsy surgery program and have performed 9 epilepsy surgeries over the first year.

Facility improvements include a relocation of the Neurology Clinics to Knollwood MedPark 4, which provide a larger, much more comfortable environment for our patients. The department continues its support of outreach clinics for children with neurologic disorders through the Children’s Rehabilitation Services (CRS) of Alabama. An evoked potentials acquisition system has been recently purchased and will provide visual, somatosensory and brainstem auditory evoked potentials.

For FY 2013, the department has redesigned its senior elective rotation to allow students to choose detailed experiences in several subspecialty areas of neurology. We anticipate the successful recruitment of our first clinical neurophysiology fellow, which will broaden our academic training. We are acquiring an Ocular Coherence Tomography unit that will assess subtle declines in myelinated fibers in the eye. This will provide sensitive detection of demyelination in MS and other brain disorders, such as traumatic brain injury, and will be a useful tool in the clinic and for research projects. The Department anticipates a large expansion of its Movement Disorders program and the initiation of a deep brain stimulation program, as outlined above.
2011-2012
Summary of Scholarly Activities
Department of Neurosurgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Martino AM. Invited speaker. Expandable cages: vertebral body replacement in thoracolumbar fractures. 28th Annual Meeting of the American Association of Neurological Surgeons/Congress of Neurological Surgeons Section on Disorders of the Spine and Peripheral Nerves; 2012 Mar 9; Orlando, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurosurgery has undergone a transition in leadership this year as Dr. Eugene Quindlen has stepped down as Chair after more than 25 years of service. Dr. Anthony Martino has transitioned to the role of Chair as of April 2012. Dr. Quindlen remains clinically involved, participating in daily rounds and performing elective surgeries. The department continues to increase the number of patient visits and surgical procedures performed. As the department has grown, the need has developed to address manpower issues. This has led to the hire of a new mid-level provider. We currently have two colleagues that function as assistants in surgery and provide call support. We continue to co-sponsor the weekly Neuroradiology Conference, as an excellent collaborative effort with neurology and neuroradiology. This year, in conjunction with the Department of Neurology, the department opened the neuromonitoring unit at the USA Medical Center. We have added a recent USA College of Medicine graduate in the role of pre-residency fellowship for the next year.

The neuro-oncology clinic at the Mitchell Cancer Center remains active with the Cyberknife program. We have started to perform radiosurgical procedures on pediatric patients for the first time. Along with teaching responsibilities for the second, third and fourth year medical students we are supporting a Ph.D. nursing student (Ashley Manass) for her research project for the next 24 months.

Dr. Anthony Martino continues the department’s participation in Children’s Rehabilitative Services for the State of Alabama. He is active in the local area chapters of the Spina Bifida Association and Think First Head Injury Prevention. As an extension of the work with head injury prevention he has given lectures in concussion awareness.
This year the concussion program, with support from Dick’s Sporting Goods, all middle and high school athletes in Baldwin County have been given baseline neurocognitive testing. We currently have a Monday morning concussion clinic to assess all athletes with concussions from the previous week.

Dr. Martino served as Co-Course Director with Dr. J. Ronald Russell for the Oncology Outlook Conference held at The Marriott Point Clear March 16-17, 2012.

In conjunction with the Department of Neurology, Dr. Daniel Dees and Dr. Oliver Darbin, we are initiating a deep brain stimulation program.

We have initiated a collaborative clinical research effort with the Department of Surgery, Division of Trauma. Currently we are participating in an investigational research project.

Dr. W. George Rusyniak, Jr. has continued the epilepsy surgery program this year. As a result, seizures have been controlled in all patients operated on. He has given multiple lectures to medical students at all levels and residents on neuroanatomy and neurosurgical case management.
2011-2012
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Baker S. Invited speaker. Hemoglobinopathies in pregnancy. 21st Annual OB/GYN CME Conference; 2012 Apr 13; Daphne, AL.


Lewis D. Invited speaker. Magnesium sulfate: Is it really that bad a tocolytic? 21st Annual OB/GYN CME Conference; 2012 Apr 12; Daphne, AL.

Lewis D. Invited speaker. Patient quality and safety using protocols. University of South Alabama, Medical Alumni Association, Medical Alumni Weekend; 2012 Jun 1; Orange Beach, AL.


McCathran C, Invited speaker. Hysteroscopy. 21st Annual OB/GYN CME Conference; 2012 Apr 12; Daphne, AL.
Rizk B. Invited speaker. Assessments and management of the fallopian tubes. 21st Annual OB/GYN CME Conference; 2012 Apr 12; Daphne, AL.

Rizk B. Invited speaker. Assisted reproduction technology. Springhill College; 2011 Oct 31; Mobile, AL.

Rizk B. Invited speaker. The initial assessment of the female. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Pathophysiology and treatment of PCOS. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Ultrasound in Infertility. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Sonohysteroscopy. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Fallopian tube catheterization and tubal surgery. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Assisted management of endometriosis associated pain. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. Ovarian hyperstimulation syndrome. Summer Internship in Reproductive Medicine. Cleveland Clinic; 2012 Jul 17; Cleveland, OH.

Rizk B. Invited speaker. The Assessment of tubal patency and the management of damage. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.

Rizk B. Invited speaker. Ultrasound in infertility. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.

Rizk B. Invited speaker. The initial assessment of the female. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.

Rizk B. Invited speaker. Ectopic pregnancy. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.

Rizk B. Invited speaker. Tubal factor. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.

Rizk B. Invited speaker. Ultrasonography and incidental ovarian pathology. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.
Rizk B. Invited speaker. Ultrasonography and IVF. Symposium on Ultrasonography & Hysteroscopy in Reproductive Medicine; 2012 Feb 9-10, Dubai, UAE.


Rizk B. Invited speaker. PCO. Symposium on Infertility and Reproductive Medicine; 2012 Jun 15; Dubai, AUE.

Rizk B. Invited speaker. Ovarian masses. Symposium on Infertility and Reproductive Medicine; 2012 Jun 16; Dubai, AUE.

Rizk B. Invited speaker. Sonohysterogram. Symposium on Infertility and Reproductive Medicine; 2012 Jun 16; Dubai, AUE.

Rizk B. Invited speaker. 3D multislice for SIS uterine cavity detection. 10th Annual Meeting of Mediterranean Society for Reproductive Medicine; 2012 May 10; Budra, Montenegro.


Rizk B. Invited speaker. Ovarian hyperstimulation syndrome in assisted reproductive technology. 10th Annual Meeting of Mediterranean Society for Reproductive Medicine; 2012 May 11; Budra, Montenegro.

Rocconi R. Invited speaker. Genetics in gynecologic malignancies. 21st Annual OB/GYN CME Conference; 2012 Apr 13; Daphne, AL.

Sherman C. Invited speaker. Preterm labor. 21st Annual OB/GYN CME Conference; 2012 Apr 13; Daphne, AL.

Stauffer R. Invited speaker. Stillbirths. 21st Annual OB/GYN CME Conference; 2012 Apr 12; Daphne, AL.

Varner S. Invited speaker. Non-hormonal medical management of menorrhagia. 21st Annual OB/GYN CME Conference; 2012 Apr 13; Daphne, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. David Lewis is secretary for the Central Association for Obstetricians and Gynecologists. He is a member of the International Society for the Study of Hypertension
in Pregnancy and traveled to Sweden in July to give a poster presentation. He is a member of the Alabama State Perinatal Advisory Council. He is a journal reviewer for the *American Journal of OB/GYN, Obstetrics and Gynecology, Journal of Maternal Fetal Medicine, Southern Medical Journal, The Lancet, Clinical Drug Investigation, Fertility and Sterility, Journal of Maternal Fetal and Neonatal Medicine.*

**Dr. Botros Rizk** received the 2012 ASRM (American Society for Reproductive Medicine) “Star Award” for presenting during at least 9 of the last 10 ASRM Annual Meetings and he received the ASRM Service Milestone Award for serving 10 years on ASRM boards and/or committees. Dr. Risk is a member of the Scientific Advisory Committee of the Mediterranean Society for Reproductive Medicine. He has been invited guest speaker for MSRM, Egyptian Fertility Society, McGill International Symposium and Pre-congress Course for the Royal College of Obstetricians and Gynecologists. He has been an Ad hoc reviewer for 13 years to the *Journals of Fertility and Sterility, Human Reproduction, Molecular Human Reproduction, Middle East Fertility Society, Reproductive Biomedicine Online, American Journal of Obstetrics and Gynecology* and is on the Editorial Board of the *Middle East Fertility Society Journal.*

**VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS**

The Department's Annual CME program was held at the Mobile Convention Center this academic year. It was our 20th Annual Conference in Obstetrics and Gynecology. The meeting was widely supported and attended by physicians, nurse practitioners, nurse midwives and nurses from a large geographic area.

**Dr. Susan L. Baker** is part time faculty and focuses on clinical care. She is working on substance abuse issues with pregnant women.

**Dr. Frankie Bodie** serves as generalist and is the director of the Center for Women's Health, and coordinates the faculty call schedule.

**Dr. Michael Finan** has a dual appointment with the Department of OB/GYN and the MCI. He is Chief of Gynecologic Oncology for the OB/GYN Department. Dr. Finan was listed as one of “America’s Top Doctors” in U.S. News and World Report. The OB/GYN Residents presented Dr. Finan the “Outstanding Faculty Award” for 2011-12. He was elected by the USA Medical School Senior Class as an outstanding teacher and awarded the “Red Sash” for 2012. He is a member of SGO Quality and Outcomes Committee 2012-14. Dr. Finan, Dr. Rocconi and Dr. Pannell have applied for a U.S. Patent for their invention, Methods and Compositions for Detecting Endometrial or Ovarian Cancer.

**Dr. John LaFleur** serves as generalist and functions as the assistant clerkship director. Dr. LaFleur serves on the Executive Committee and is Chairman of the OB/GYN Committee at USACW. Dr. LaFleur was awarded the Red Sash by the COM Class of 2012.
Dr. David Lewis has completed his first year as Chair of the Department of Obstetrics and Gynecology. He serves on the College of Medicine Executive Council Committee, Operations Committee, Clinic Chairs and Medical Executive Committee. He serves on the Performance Improvement Council, OB/GYN Committee and Medical Executive Committee at USA Children’s and Women’s Hospital.

Dr. C. Eric McCathran joined the Department in January. He serves as the Director of Gynecology and is on the Hospital ED Committee and the OB/GYN Committee.

Dr. Sheri Owens serves as a generalist, and continues as Clerkship Director for the department. She serves on the Hospital OB/GYN Committee, the Performance Improvement Committee and the Medical Executive Committee and the College Risk Management Committee.

Dr. Botros Rizk serves as the Medical and Scientific Director of the IVF Program. He is a member of the Faculty Committee Institutional Review Board and a member of Department of OB/GYN Laboratory QA Committee, Chairman 1999-Present, Chairman of the American Society for Reproductive Medicine International Membership Committee.

Dr. Rodney Rocconi has a dual appointment with OB/GYN and the Mitchell Cancer Institute. He teaches the residents GYN Oncology. Dr. Rocconi received the CREOG National Faculty Award for Excellence in Resident Education for 2011-12.

Dr. Rocconi is an Editorial Reviewer for *Journal of Cellular and Molecular Medicine and Anti-Cancer Agents in Medicinal Chemistry*. Dr. Rocconi is the PI for the Laura Crandall Brown Ovarian Cancer Foundation FY12 Grant entitled, “Feasibility and Comparative Effectiveness of a Private at domicile Self-Administered Test (PADSAT) for Ovarian Cancer Screening.”

Dr. Craig Sherman serves as the Program Director and as Medical Director for the Women’s Center. He is Chair of the Medical Executive Committee, Department of OB/GYN Education Committee, OB/GYN Hospital Committee, Special Care Committee, Family Medicine - Internal Medicine Committee, Combined Credentials Committee, Information Management Committee, Pediatrics/Neonatology Committee, COM Admissions Committee, Curriculum Committee, Module Directors Committee, USA Hospitals Physicians Advisory Group, Soarian Steering Committee. He serves on the USA Hospital Credentials Committee and the Combined Medical Executive Committee, and the Advisory Committee, Alabama Section, ACOG.

Dr. Robert Stauffer serves as the Director of Obstetrical Ultrasound for the Department, and he serves on the USA CW Pharmacy Committee.
Dr. Steven Varner is the Director of Gynecologists and Assistant Program Director. He is on the following committees, OB/GYN Education Committee, Medical Executive Committee, Special Care Committee, Surgery Committee, Operations Committee, Billing Compliance and he is the Chair of the OB/GYN Hospital Committee and the Robotic Surgery Committee.
2011-2012
Summary of Scholarly Activities
Department of Orthopaedic Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Alonso JE. Invited speaker. Pelvic trauma. Department of Orthopaedics Grand Rounds Lectures at University of Miami Miller School of Medicine; 2011 Oct 27; Miami, FL.


Alonso JE. Invited speaker. Insufficiency fractures: overview and fixation techniques. AO North America Advanced Principles Course; 2012 Mar 11; Dallas, TX.

Alonso JE. Invited speaker. Closing the loop in pelvic trauma. 3rd Annual Greater Gulf Coast Trauma Acute Care Surgery Symposium; 2012 Mar 22; Spanish Fort, AL.

Alonso JE. Invited speaker. Hora dorada en cirugia de pelvis. XXXI Congreso Nacional De Ortopedia Y Traumatologia; 2012 Apr 28; Mexico City, Mexico.

Alonso JE. Invited speaker. Pendiente. XXXI Congreso Nacional De Ortopedia Y Traumatologia; 2012 Apr 28; Mexico City, Mexico.

Alonso JE. Invited speaker. Tratamiento de las fracturas de acetabulo: tecnologia vs. habilidad. XXXI Congreso Nacional De Ortopedia Y Traumatologia; 2012 Apr 29; Mexico City, Mexico.

Alonso JE. Invited speaker. Tx con fijador externo de meseta tibial. XXXI Congreso Nacional De Ortopedia Y Traumatologia; 2012 May 1; Mexico City, Mexico.
Alonso JE. Invited speaker. Radiology of the acetabulum. AO North America; 2012 Jun 7; Marco Island, FL.

Alonso JE. Invited speaker. Insufficiency fractures: overview and fixation techniques. AO North America; 2012 Jun 8; Marco Island, FL.

Meyer FM. Invited speaker. Salvage procedures for DRUJ. 99th Annual Clinical Orthopaedic Society Meeting; 2011 Oct 1; Charleston, SC.

Meyer FM. Invited speaker. Improving patient outcomes in Dupuytren’s contracture: restoring hand function. Blessing Medical Center; 2011 Nov 9; Quincy, IL.

Meyer FM. Invited speaker. Improving patient outcomes in Dupuytren’s contracture: restoring hand function. Brookdale University Hospital Medical Center; 2011 Dec 6; Brooklyn, NY.

Meyer FM. Invited speaker. Management of distal radius fractures. University of Illinois Chicago; 2012 Jan 4; Chicago, IL.

Meyer FM. Invited speaker. Implementing the 2011 ACGME standards. ARCOS Annual Meeting; 2012 Feb 8; San Francisco, CA.

Meyer FM. Invited speaker. Management of Dupuytren’s contracture: treatment options. Robinson Memorial Medical Center; 2012 Feb 29; Ravenna, OH.

Meyer FM. Invited speaker. Improving patient outcomes in Dupuytren’s contracture: restoring hand function. Grand Rounds, Trinitas Regional Medical Center; 2012 Mar 22; Elizabeth, NJ.

Meyer FM. Invited speaker. Volume to value. USA Medical Alumni Association Annual Alumni Meeting; 2012 Jun 1; Orange Beach, AL.

Meyer FM. Invited speaker. Hand fractures. 11th Annual South East Trauma Symposium; 2012 Jul 28; Destin, FL.

Meyer FM. Invited speaker. Flexor tendon injuries. 11th Annual South East Trauma Symposium; 2012 Jul 28; Destin, FL.


Perry MD. Invited speaker. Basic principles of foot and ankle orthoses. Dallas Short Course Orthotics and Prosthetics; 2011 Oct 20; Dallas, TX.

Perry MD. Invited speaker. Treatment algorithm for diabetic feet. Dallas Short Course Orthotics and Prosthetics; 2011 Oct 21; Dallas, TX.

Perry MD. Invited speaker. IM nailing of humeral fractures: indications/techniques/anything new? AO North America Principles of Operative Fracture Management Course; 2012 Mar 8; Dallas, TX.

Perry MD. Invited speaker. Complex ankle fractures: current techniques. AO North America Principles of Operative Fracture Management Course; 2012 Mar 10; Dallas, TX.


V. NATIONAL PROFESSIONAL RECOGNITION


Albert Pearsall, M.D.: Council Member, Tissue Advisory Council, LifeLink Foundation, Inc.

Mark Perry, M.D.: Moderator for Practical Exercise III: Distal Intra-Articular Humerus Fractures, AO North America Principles of Operative Fracture Management Course, 2012 March 9, Dallas, TX; Moderator for Introduction to Mystery Exercise (Fixation of a “Weber C” ankle fracture without table instructor assistance.) at the Principles Course of Fracture Management for Operating Room Personnel; 2012 Aug 11; Destin, FL. Oral Boards Examiner - American Board of Orthopaedic Surgery; Editorial Board of the Patient Information website, www.footeducation.com; Member of AAOS Resolutions Committee.

Zhiqing Xing, M.D.: Journal peer reviewer for Injury, The Knee, and “Orthopaedic Knowledge Online”; Active Membership in Musculoskeletal Tumor Society.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Orthopaedic Surgery continues to be engaged both clinically and academically. In the last year, there have been three published manuscripts in nationally recognized journals, and 8 published abstracts. In addition, there have been 44 presentations at regional and national meetings. We added a faculty member, Dr. Zhiqing Xing, as an Assistant Professor who is trained in orthopaedic oncology, adult reconstruction and trauma. A number of our faculty received national recognition including Dr. Jorge Alonso who is a faculty member of the AO North America and serves on the Riverside Military Academy Board of Trustees. Dr. Frederick Meyer is the President of the Alabama Orthopaedic Society. Dr. Albert Pearsall is a Council Member on the Tissue Advisory Council for the LifeLink Foundation, Inc. and is a member of the Publications Committee at the American Orthopaedic Society for Sports Medicine. Dr. Mark Perry is a member of the AAOS Resolutions Committee and is on the Editorial Board of the Patient Information website, www.footeducation.com. The Department of Orthopaedic Surgery has three residents in PGY V, PGY IV, III, II and I years. All of our residents have passed their written boards.
This year we graduated Dr. Tim Frerichs, Dr. David Smith, and Dr. Dan Wittersheim. Dr. Frerichs accepted a Sports Medicine Fellowship at The Andrews Sports Medicine Institute of Sports Medicine in Gulf Breeze, FL; Dr. Smith accepted a Trauma Fellowship position at Univ. of Missouri; and Dr. Wittersheim accepted a Joint Fellowship position in Arizona.
2011-2012
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Corneal J, Sosnowski J. Body mass index in hospital autopsy cases: younger age at death associated with increased body mass index in the southeast. Arch Pathol Lab Med. 2012 Sep;136(9):1048. Poster no. 65.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Boudreaux CW. Invited speaker. The Bethesda System for reporting thyroid cytopathology: flustered about FLUS. Alabama Association of Pathologists, The Practice of Pathology 2011: Updates and Current Topics; 2011 Oct 9; Orange Beach, AL.


Polski J. Invited speaker. Flow cytometry beyond blasts or lymphocytes. Alabama Association of Pathologists, The Practice of Pathology 2011: Updates and Current Topics; 2011 Oct 8; Orange Beach, AL.


Tucker JA. Invited speaker. Perspectives on a fellowship match. College of American Pathologists Residents Forum, United States and Canadian Academy of Pathology; 2012 Mar 17; Vancouver, British Columbia, Canada.

V. NATIONAL PROFESSIONAL RECOGNITION

Carole Boudreaux: Reviewer, Ultrastructural Pathology.

Elliot Carter: Associate Counselor, Southern Medical Association; Board of Censors, Mobile County Medical Society; Board, South Alabama Cares (Mobile Regional AIDS/HIV Council); College of American Pathologists’ inspector (team leader): Sacred Heart Hospital, Pensacola, Florida.

Andrea G. Kahn: Member, International Union Against Cancer Global Cancer Control Community.

Elizabeth A. Manci: Board of Directors of the Gulf Coast Regional Chapter of the American Red Cross; Study Group Lead for Post Mortem Work Group at the NHLBI-HRSA Hemoglobinopathies Uniform Medical Language Ontology Development Project; President of the Medical Society of Mobile County; Counselor, Medical Association of the State of Alabama, District One; MASA Delegate to American Medical Association; Director, Centralized Pathology Unit for Sickle Cell Disease with ongoing collaborative studies with Dr. Jacqueline Hibbert, Morehouse School of Medicine in Atlanta, GA.


J. Allan Tucker: Member, American Medical Association/Specialty Society Resource-Based Relative Value Scale Update Committee (RUC) (Vice Chair, RUC Administrative Committee and member, RUC Professional Liability Insurance Workgroup); Treasurer, American Registry of Pathology; Member, Executive Council, Association of Pathology Chairs and Chair, Graduate Medical Education Committee; Member, Economic Affairs Committee of the College of American Pathologists and Member of the CPT/RUC Workgroup; Member, Graduate Medical Education Committee of the College of American Pathologists; Secretary and Treasurer, History of Pathology Society; Treasurer, International Academy of Pathology; Treasurer, Society for Ultrastructural Pathology; Ambassador, Abstract Review Board Member, Nominating Committee Member, Finance Committee Member and Pathology Section Representative to the American Medical Association, United States and Canadian Academy of Pathology; Member, Veterans Affairs Electron Microscopy Ad Hoc Review Group; Editorial Board: *Annals of Clinical and Laboratory Science*; Associate Editor, *Ultrastructural Pathology*; Editor-in-chief, *Journal of Pathology Research*. 
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The department saw the departure of Dr. Maggi O’Brien, who was also serving as associate dean for student affairs of the College of Medicine, as she left to pursue her interest in global health and enrolled in a highly competitive masters degree program at the University of California at San Francisco. Dr. Jeff Sosnowski, who had previously been appointed as assistant dean for curriculum integration, moved full time into that role. We were able to recruit Dr. Javier Laurini, an individual who had completed his residency here and subsequently completed prestigious fellowships in surgical pathology at Mayo Clinic and hematopathology at the University of Nebraska. We also were very pleased to be able to recruit Dr. Kelly Roveda. She had been on the faculty here and had served as the program director at one time, but left thirteen years ago to work in a busy and high-level community practice, Gulf Regional Pathologists (the group with whom the department continues to enjoy a collaborative relationship), so she brings not only her previous faculty experience, but many years of practical diagnostic experience, as well as a strong teaching interest to the department. The department is very fortunate to have these two new faculty members.

Three residents completed the program this year. Dr. Ioan Cucoranu is the first resident from the program to pursue an informatics fellowship, and he was accepted at Pittsburgh, arguably the top program in informatics in the country. Dr. Monica Klein will be moving to China and will have the opportunity to be involved in pathology work there before returning to the United States to pursue a fellowship. Dr. Bhavesh Papadi received a distinguished fellowship in cytopathology at the National Institutes of Health. The department enjoyed another highly successful resident recruiting year, with three new residents joining the department: Dr. Maria Del Valle from the University Del Norte in Columbia, South America (who subsequently completed research and diagnostic ophthalmologic work in Houston), Dr. Ioannis Ioannidis from the University of Athens, Greece (who completed a cytopathology residency in Athens prior to this residency), and Dr. Stephen Marbut, a University of South Alabama graduate who was also chosen by his class as the graduation speaker.

Carole Boudreaux, Maggi O’Brien, and Allan Tucker received the Red Sash award from the 2012 medical student class. The pathology course tied for best basic science course, and the electron microscopy course won as best fourth year rotation. The Betsy D. Bennett award for outstanding teaching in the second year small group by a resident went to Dr. Rock Adams and Dr. Kalli Faulkner. The faculty recognition award for excellence in residency teaching was presented to Dr. Andrea Kahn. Ms. Kathy Cannon received the award from the housestaff for outstanding contributions to their educational experience from a staff member. The William A. Gardner, Jr., award for an outstanding pathology performance by a graduating medical student went to Mr. Travis Harris.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Preud’Homme D, Adaimi R, Higginbottom L, Phelps LA. How do children feel when they are called “fat” by their doctors/nurses (HCP)? The “words that hurt” study. The Obesity Society 29th Annual Scientific Meeting; 2011 Oct 2; Orlando, FL. p. 63. Abstract no. 391-P.

Preud’Homme D, Adaimi R, Higginbottom L, Phelps LA. Weight-defining words used in the health care providers (HCP) communication with obese children: the “words that hurt” study. The Obesity Society 29th Annual Scientific Meeting; 2011 Oct 2; Orlando, FL. p. 64. Abstract no. 420-P.

Preud’Homme D, Higginbottom L, Pettry A, Phelps LA. Chewing sugar-free gum (SFG) decreases in between-meal hunger sensations (HS) in obese children. The Obesity Society 29th Annual Scientific Meeting; 2011 Oct 2; Orlando, FL. p. 60. Abstract no. 327-P.
Preud’Homme D, Higginbottom L, Pettry A, Phelps LA. Chewing sugar-free gum (SFG) to reduce between-meal hunger sensations (HS) decreases the intake of added sugar in children with obesity. The Obesity Society 29th Annual Scientific Meeting; 2011 Oct 2; Orlando, FL. p. 60. Abstract no. 328-P.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Connelly R, Trimm F. Invited speakers. Inpatient duty hours and hand-over at the University of South Alabama Children’s and Women’s Hospital. Association of Pediatric Program Directors Annual Meeting; 2012 Mar 28; San Antonio, TX.

Custodio H. Invited speaker. Tuberculosis, TB update. Department of Health; 2012 Mar 21; Mobile, AL.

Falkos SA. Invited speaker. Critically abused children. Surviving Trauma Conference; 2011 Nov 19; Pensacola, FL.

Falkos SA. Invited speaker. Interesting case presentation. Sickle Cell Disease Practical Issues XII: Casting the Net II Annual Sickle Cell Regional Conference; 2012 Sep 7; Mobile, AL.
Gremse D. Invited speaker. Dysmotility disorders of prematurity. AAP District VIII’s 36th Annual Conference; 2012 Jun 1; Las Vegas, NV.

Gremse D. Invited speaker. Why do we do MOC. Nevada Chapter AAP Fifth Annual Meeting; 2012 Aug 10; Las Vegas, NV.

Gremse D. Invited speaker. Living with pediatric Crohn’s disease & ulcerative colitis. Alabama/NW Florida Chapter of the Crohn’s & Colitis Foundation of America; 2012 Sep 13; Mobile, AL.

Gremse D. Invited speaker. Celiac disease dilemmas: does my child need to be gluten-free? Pediatric Medical Grand Rounds at Children’s Hospital of Alabama; 2012 Sep 27; Birmingham, AL.

Gremse D. Invited speaker. Celiac disease dilemmas: does my child need to be gluten-free? Alabama Chapter AAP 2012 Annual Meeting & Fall Pediatric Update; 2012 Sep 30; Birmingham, AL.

Imran H. Invited speaker. Coagulation disorders. Advancement in the Care of Pediatric Cancer & Blood Disorders Symposium; Children’s of Alabama/University of Alabama; 2011 Oct 14; Birmingham, AL.

Imran H. Invited speaker. Management of SCD. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.


Kauflers AM. Invited speaker. Diabetes in schools. AASN District 6 Spring Conference; 2012 Mar 3; Mobile, AL.


Martinez J. Invited speaker. Advances in genetic diagnosis. Alabama Department of Rehabilitation Services/Alabama Early Intervention System 11th Annual Early Intervention Update; 2012 Jun 12; Tuscaloosa, AL.

Preud’Homme D. Invited speaker. Encopresis and constipation: not life threatening but life altering. 28th Annual Care of the Sick Child Conference; 2011 Nov 11; Lake Buena Vista, FL.

Preud’Homme D. Invited speaker. GER (D) pathology and management: updated guidelines. 28th Annual Care of the Sick Child Conference; 2011 Nov 11; Lake Buena Vista, FL.

Preud’Homme D. Invited speaker. Metabolic syndrome: when to suspect and diagnose it. 28th Annual Care of the Sick Child Conference; 2011 Nov 12; Lake Buena Vista, FL.


Preud’Homme D. Invited speaker. Atherosclerosis. Springhill College; 2011 Nov 28; Mobile, AL.


Preud’Homme D. Invited speaker. Encopresis and constipation. AAP Practical Pediatrics CME Course; 2012 Mar 23; Orlando, FL.

Preud’Homme D. Invited speaker. GER/GERD; focus on the infant and toddler. AAP Practical Pediatrics CME Course; 2012 Mar 23; Orlando, FL.


Preud’Homme D. Invited speaker. Gastrointestinal disorders in the pediatric patient. Covenant Hospice Pediatric Education Series 2012; 2012 Jun 1; Mobile, AL.

Siddiqui A. Invited speaker. Basic genetics and hematology. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.


Swingle H. Invited speaker. Evidence-based treatments for autism spectrum disorders. USA Med School Cafè; 2012 Apr 18; Mobile, AL.
Trimm F. Invited speaker. Teaching health professions students with ADHD and other learning disabilities. SYNERGY presentation at University of Texas Medical Branch; 2011 Oct 10; Galveston, TX.

Trimm F. Invited speaker. Promoting mental wellness in children and adolescents. PA Program at University of Texas Medical Branch; 2011 Oct 13; Galveston, TX.

Trimm F. Invited speaker. Self-regulation and attention: a foundation of development and behavior in children. Grand Rounds at University of Texas Medical Branch; 2011 Oct 14; Galveston, TX.

Trimm F. Invited speaker. Constructing adaptable residents as teachers (RATs) programs: one block at a time. 2012 ACGME Annual Education Conference; 2012 Mar 2; Orlando, FL.

Trimm F. Invited speaker. Pediatric resident self-assessment of ACGME competencies. Association of Pediatric Program Directors Annual Meeting; 2012 Mar 29; San Antonio, TX.

Trimm F. Invited speaker. Pediatric resident self-assessment of ACGME competencies. Pediatric Academic Societies; 2012 Apr 28; Boston, MA.

Trimm F. Invited speaker. Successful intervention to help acculturation of international medical graduates cannot be measured comparing multisource evaluation scores. Pediatric Academic Societies; 2012 Apr 30; Boston, MA.

Whitehurst RM Jr. Invited speaker. Neonatal abstinence syndrome. Mobile Infirmary Medical Center Women’s and Children’s Conference; 2012 Apr 25; Mobile, AL.

Wilson F. Invited speaker. In crisis: consequences of iron overload and sickle cell pain. Treatment Option for Iron Overload 2011; 2011 Oct 5; Atlanta, GA.

Wilson F. Invited speaker. When serum ferritin is > 1000 mcg/L: how to help patients achieve treatment goals. Oncology Nursing Society; 2012 Mar 22; Savannah, GA.

Wilson F. Invited speaker. Be sickle smart-take control of your future: living with sickle cell disease. Children’s Healthcare of Atlanta; 2012 May 24; Atlanta, GA.

Wilson F. Invited speaker. Newborn screening in sickle cell disease. Sickle Cell Disease Practical Issues XII: Casting the Net II Annual Sickle Cell Regional Conference; 2012 Sep 7-8; Mobile, AL.

Wilson F. Invited speaker. Iron overload. Sickle Cell Day. The Sickle Cell Center at East Carolina University; 2012 Sep 21; Greenville, NC.
V. NATIONAL PROFESSIONAL RECOGNITION

**Stephanie Anderson**: Member, Alabama Interagency Autism Coordinating Council (AIACC), Standards of Practice, Diagnostic Clinics Workgroup charged with drafting standards of practice for autism diagnostic clinics in the state of Alabama; Pilot tester for CDC online course on identifying, diagnosing, and managing autism spectrum disorders.


**Allison Chung**: Committee Member, Best Pharmaceuticals for Children Act (BPCA) Working Group/National Institute of Child Health and Human Development (NICHD), Washington, DC; Member, ACCP 2012 Programming Committee, Kansas City, KS; Board of Directors, Ozanam Charitable Pharmacy, Mobile, AL; Member, Alabama Asthma Coalition, Montgomery, AL; Member, Pharmacists Association of Mobile County (PAMC); Member, American Association of Colleges of Pharmacy (AACP), Alexandria, VA; Member, Alabama Society of Health System Pharmacists, Birmingham, AL; Reviewer: ACCP – Resident/Fellowship Travel Award, Kansas City, KS; ACCP – Student CV Reviewer, Kansas City, KS; American Society of Health System Pharmacists, Rockville, MD.

**Kimberly Cole**: Member, Alabama Baby Coalition.

**Rosina Connelly**: Co-leader/workshop presenter “Making learning fun for all: working with your learners’ differences” at the 2012 Spring Pediatric Academic Societies Annual National Meeting in Boston, MA; Member, Academic Pediatric Association Health Literacy SIG. Reviewer: *Medical Education Online.*

**LaDonna Crews**: Board Member, American Academy of Pediatrics, Alabama Chapter Residency Program Representative.


**Haidee Custodio**: Poster mentor, Southern Society for Pediatric Research Meeting; Judge, Pediatric Clinical Case Symposium, Southern Society for Pediatric Research Meeting, New Orleans, LA.

**Benjamin Estrada**: Institutional Representative, elected Council Member, Southern Society for Pediatric Research; Institution Representative, Committee on Medical Student Education in Pediatrics (COMSEP); Member, COMSEP Curriculum Task Force; Elected to Faculty Membership, USA COM AOA Honor Medical Society, Alabama Beta Chapter.

**Sheryl Falkos**: Medical Director, Pediatrics for Baptist LifeFlight; Member, Alabama Child Death Review; Advisory Board, Penelope House.

**Cristina Gavrilita**: Member, Alabama Baby Coalition.
David Gremse: Medical Editor, Subboard of Pediatric Gastroenterology Examination Committee, American Board of Pediatrics; Editorial Board, Paediatric Drugs; Finance Committee, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition MOC-G Examination Committee, American Board of Pediatrics; Past President, Western Society for Pediatric Research; Past President, Nevada Chapter, American Academy of Pediatrics; Executive Committee, Section on Pediatric Gastroenterology and Nutrition, American Academy of Pediatrics; Reviewer: Journal of Pediatric Gastroenterology and Nutrition, Pediatrics.

Charles Hamm: Interim Chair, Department of Pediatrics, May 2011 through April 2012.

Grace Hundley: Member, Alabama Chapter Governor’s Council, American College of Physicians (ACP); Poster Judge, Student and Associate Abstract Competition, Alabama Chapter, ACP Annual Meeting, Orange Beach, AL.

Hamayun Imran: Reviewer: Transplant International.

Anne-Marie Kaulfers: Member, ADPH Newborn Screening Advisory Committee; Board Member, Southeastern Diabetes Education Services; Reviewer: The Journal of Clinical Endocrinology & Metabolism.

Jessica Kirk: Coordinator and Medical Home Subcommittee Chairperson, American Academy of Pediatrics (AAP) SOMSRFT District X; CATCH Facilitator, State of Alabama; AL Chapter Young Physician Co-Chairperson of the AAP; Member, AAP Council on Community Pediatrics; Nominating Committee, SOYP.

Keith Peevy: Member, Alabama Baby Coalition Task Force; Member, Alabama Baby Coalition Task Force Sub-Committee Task Force Community Action Team.

Anand Ponnambalam: Member, Motility Committee of the North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN); Course Conductor, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition Annual Conference.


Hanes M. Swingle: Pilot tester, CDC online course on identifying, diagnosing, and managing autism spectrum disorders; Member, Executive Committee, Alabama Interagency Autism Coordinating Council (AIACC); Board of Directors, Autism Society of Alabama; Board of Directors, Glenwood Autism and Behavioral Health Center, Birmingham; Advisory Board, Learning Tree, Inc.; Reviewer: Journal of Developmental-Behavioral Pediatrics, the Maternal and Child Health Journal, the Pediatric Academic Society Annual Meeting.

R. Franklin Trimm: Board of Directors, Society for Developmental and Behavioral Pediatrics; Consultant, AAP Mental Health Task Force; Director and Chair of Council,
Association of Pediatric Program Directors LEAD (Program Director School); Member, DB PREP Planning Meeting, Chicago, IL; Workgroup Chair, AAP PediaLink Resident Center (National website for resident completion of ACGME required Individualized Learning Plan [ILP]), Chicago, IL; Member, Accreditation Council Graduate Medical Education (ACGME) Pediatric Residency Review Committee; Member, AAP Committee on Pediatric Education (COPE); Member, SDBP Program Planning Committee; Co-Editor, American Academy of Pediatrics Developmental-Behavioral Pediatrics Self-Assessment; Session Moderator, Pediatric Academic Societies Annual Meeting, Boston, MA; Workgroup Chair, AAP Mental Health Curriculum Meeting, Chicago, IL; Osler Scholar, University of Texas Medical Branch; Reviewer: *Journal of Developmental & Behavioral Pediatrics, Pediatrics, Academic Medicine, Journal of Graduate Medical Education, Pediatrics.*

**Rosa Vidal:** Board of Directors, Ronald McDonald House.

**Felicia Wilson:** President, Alabama Sickle Cell Oversight Regulatory Commission; Member, State of Alabama Newborn Screening Advisory Committee; Co-Chair, Hemoglobinopathy Subcommittee; Member, Alabama Comprehensive Cancer Control Coalition and Member, Prevention, Early Detection Subcommittee; Laboratory Medical Director and Board of Directors, Sickle Cell Disease Association of American, Mobile Chapter.

**Michael Zayek:** Member, Regional IV Perinatal Advisory Council; Member, State Perinatal Advisory Committee; Reviewer: *Clinical Pediatrics, Society for Pediatric Research.*

**VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS**

The Department of Pediatrics was delighted to welcome Dr. David Gremse back to USA as Professor and Chair of the Pediatric Department. The department also welcomed Dr. Paola Maurtua-Neumann as Assistant Professor in the Division of General Pediatrics after completion of a Pediatric Infectious Disease fellowship at Tulane. The department also welcomed back Dr. Brad McClellan, an alumnus of the USACOM Class of 2006, to the department as Assistant Professor and Director of the Division of Pediatric Nephrology. Dr. McClellan completed his pediatric nephrology fellowship at Stanford and is the first full-time pediatric nephrologist in Mobile. Dr. Kari Bradham completed her duties as Pediatric Chief Resident and joined the Division of General Pediatrics as Assistant Professor. This past year saw the departures of Drs. John Benjamin (Neonatology), Kathie Savells (General Pediatrics), and Tom Martinko (Adolescent Medicine), and the promotion of Dr. Felicia Wilson to Full Professor.

Drs. Haidee Custodio, Benjamin Estrada, Grace Hundley, Druhan Howell, Ihab Jubran, Jessica Kirk, Jose Martinez, Daniel Preud’Homme, Kathie Savells, Hanes Swingle and Felicia Wilson were recognized by the USACOM Class of 2012 as Distinguished Faculty at the Honors Convocation. The eighteenth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship was Thomas Cooper Wilson.

Nine of the graduating medical students in the USACOM Class of 2012 chose residencies in Pediatrics or combined Medicine-Pediatrics.
Of the pediatric housestaff completing residency training in 2012, three entered private practice, three entered into fellowship training, one accepted a position at USA Children’s & Women’s Hospital Evaluation Center, two remained in the department as Pediatric Chief Residents. Both of the graduating Medicine-Pediatrics residents entered private practice.

The residency training program in categorical Pediatrics expanded to a total of 36 positions. Twelve new first year residents entered the pediatric residency program, and two first-year residents entered the combined Medicine-Pediatrics Residency Program. Drs. Sophia Goslings and MaryLynn Epsten were named Chief Residents for the 2012-2013 academic year.

The scholarly activities by the faculty of the Department of Pediatrics this year included 13 original articles and 23 published abstracts. Departmental faculty were active in mentoring pediatric residents in clinical research. There were 12 abstracts presented at regional and national meetings by pediatric residents who were the first authors with senior authorship by members of the pediatric faculty.

The expansion of USA Children’s and Women’s Hospital offers new opportunities to expand the capabilities to deliver pediatric care for children in the region, increase the capacity for undergraduate and graduate medical education in pediatrics, and to increase the patient population available for clinical research in pediatrics. The Department of Pediatrics participates in community outreach programs with USA Children’s and Women’s Hospital to educate the general public and referring physicians about the child health services available.

Faculty members in the Department of Pediatrics are playing an instrumental role in undergraduate and graduate medical education of USACOM students and residents. Dr. Benjamin Estrada reviewed and edited each of the newly designed competency-based objectives for each of the courses across the 4 years of instruction in the undergraduate medical education program that will be implemented starting with the Class of 2016.

Dr. Franklin Trimm chairs the Next ACGME Accreditation System Task Force for USACOM. Dr. Daniel Preud’Homme is the Thread Leader for undergraduate medical education in Nutrition that incorporates nutrition objectives throughout the four year undergraduate medical education curriculum. Dr. Grace Hundley, who is Associate Residency Program Director for the Medicine-Pediatrics Residency Program, has a joint appointment with the Department of Internal Medicine and Pediatrics and also serves as the Course Director for the Introduction to Clinical Medicine course.
Major goals for the coming year include: 1) development of Quality Improvement projects both departmental initiated as well as participating in Children’s & Women’s Hospital QI efforts, 2) implementation of advances in undergraduate and graduate medical education programs with a new pediatric clerkship curriculum for medical students and innovations in the pediatric residency curriculum in preparation to be in compliance with the Pediatrics Milestones Project of the ACGME, and 3) expansion of outreach initiatives in conjunction with Children’s & Women’s Hospital to increase access to care for children with special health care needs.
2011-2012
Summary of Scholarly Activities
Department of Pharmacology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Hill JK, Mulekar S, Pastukh VM, Gillespie MN. Mitochondrial DNA damage-associated molecular patterns are released in response to oxidant stress in rat pulmonary artery endothelial cells. FASEB J. 2012;26:1130.12.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Schaffer SW. Invited speaker. The role of the giant protein titin in systolic and diastolic dysfunction. Fresenius Kabi Expert Meeting Cardiology; 2012 Sep 12; Mainz, Germany.
Wu S. Invited speaker. The $\alpha_{1G}$ T-type Ca$^{2+}$ channel and lung endothelial cell proinflammatory phenotype. The University of Texas Health Science Center; 2011 Nov 14; Tyler, TX.

V. NATIONAL PROFESSIONAL RECOGNITION


Bauer N: Study Sections Member for American Heart Association, American Lung Association, National Institutes of Health (NHLBI); Peer Reviewer, *American Journal of Physiology Lung Cellular and Molecular Physiology, Physiology Reviews, and PLoS One;* Member, Nominating Committee, Gulf Coast Physiological Society; Member, Programming Committee, Scientific Symposium Organizer, Poster Session Facilitator, American Thoracic Society.


Cioffi EA: Invited participant, Gulf of Mexico Alliance (GOMA), Mercury Forum; Pensacola, FL.


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pharmacology hosted visits from two scientists who participated in the Distinguished Scientist Seminar Series: Dr. Ronald L. Schnaar, Professor, Departments of Pharmacology, Molecular Science, and Neuroscience, The Johns Hopkins School of Medicine at Baltimore, MD presented a seminar entitled “Axon-myelin Interactions, Axon Stability and the Control of Axon Regeneration” on Thursday, December 8, 2011. Dr. Augustine M.K. Choi, Parker B. Francis Professor of Medicine, Harvard Medical School, Chief, Pulmonary and Critical Care Medicine, Brigham and Women’s Hospital at Boston, MA presented a seminar entitled “Autophagy: Regulation and Function of Lung Disease” on Thursday, April 19, 2012.

One student graduated from the Department of Pharmacology and the Center for Lung Biology. Dr. Christiaan D. Ochoa’s defense was on May 31, 2012. His dissertation was entitled, “The Microtubule-associated Proteins Tau and MAP6 in Endothelial Function.” Dr. Ochoa is a Medical Resident in the Physician Scientist Training Program at the University of Texas Southwestern Medical Center in Dallas, TX. Dr. Troy Stevens served as his major professor.

Dr. Troy Stevens and his colleagues in the Center for Lung Biology received the third consecutive competing renewal of their NIH Program Project Grant entitled “Lung Endothelial Cell Heterogeneity.” The program, which has generated nearly $25M in extramural funding since its inception over 15 years ago, is focused on identifying new targets for drug action in acute lung injury and the acute respiratory distress syndrome.
Dr. Mark Gillespie is a partner in one of the first biotech companies to be launched along the Gulf Coast. The company, Exscien, led by Steve and Christine Cumbie, was recently awarded a Science and Technology Transfer (STTR) grant by the National Institutes of Health to support the development of a new drug to prevent and reverse acute lung injury. The USA College of Medicine will collaborate with Exscien in an effort to rapidly develop the treatments. The STTR grant and Exscien are developments that emerged from an earlier funding cycle of the above-mentioned program project grant.
Summary of Scholarly Activities
Department of Physiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Taylor MS, Qian X, Francis M, Earley S, Solodushko V. Recruitment of dynamic cerebral artery endothelial Ca\(^{2+}\) signals by the TRPA1 channel activator AITC. FASEB J. 2012;26:853.2.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Taylor MS. Invited speaker. Do you speak Ca$^{2+}$? Generation, tuning and decoding of endothelial Ca$^{2+}$ signals. University of Montreal; 2012 May 17; Montreal, Canada.

Taylor MS. Invited speaker. Dynamic Ca$^{2+}$ signals in swine coronary artery endothelium. Institut de Cardiologie de Montreal; 2012 May 18; Montreal, Canada.

Taylor MS. Invited speaker. Recruitment of dynamic cerebral artery endothelial Ca$^{2+}$ signals by the TRPA1 channel activator AITC. Experimental Biology 2012; 2012 Apr 25; San Diego, CA.

Townsley MI. Invited speaker. Interstitial barriers and fluid balance in the lungs. The Lung in Congenital Heart Disease. Heart Disease in the Young, American Heart Association Scientific Sessions 2011; 2011 Nov 15; Orlando, FL.

Townsley MI. Invited speaker. Calcium channels, lung endothelium, and acute lung injury – lessons in diversity. University of Mississippi Medical Center; 2012 May 16; Jackson, MS.
V. NATIONAL PROFESSIONAL RECOGNITION


James M. Downey: Editorial Board Member, *Circulation Research, Journal of Molecular and Cellular Cardiology, Basic Research in Cardiology, Cardiovascular Pharmacology and Therapeutics*.


Mary I. Townsley: Fellow, Cardiovascular Section, American Physiological Society; Fellow, Council on Cardiopulmonary, Perioperative, Resuscitation and Critical Care, American Heart Association; Distinguished Achievement Award, Council on Cardiopulmonary, Perioperative, Resuscitation and Critical Care, American Heart Association; University Faculty Representative, Federal Demonstration Partnership; Member, NHLBI NITM Study Section; Member, CME Task Force on Peer Review, American Heart Association; Editorial Board, *Frontiers in Physiology, Vascular Physiology, Microvascular Research; Reviewer: American Journal of Physiology, American Journal of Respiratory and Critical Care Medicine, Circulation Research*.

David S. Weber: Member, American Physiological Society, Cardiovascular Section Trainee Committee; Ad hoc reviewer, NIH NHLBI Vascular Cell and Molecular Biology Study Section; Reviewer, “Vascular Biology, Blood Pressure/Regulation” Study Section,
American Heart Association; Reviewer, Circulation Research, Microvascular Research, International Journal of Hypertension, American Journal of Hypertension, Experimental Cell Research, Nitric Oxide, Cellular Physiology and Biochemistry, AHA Scientific Sessions.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Physiology saw major changes this year with retirements, newly appointed faculty and changes in teaching as a result of new curriculum activities. Dr. James Downey and Dr. James Parker, both Professors of Physiology, retired in May after several decades of major contributions to the Institution and to their fields of expertise.

Dr. Downey came to the University in 1974 and was a faculty member with the inaugural class of students in the College of Medicine. He has authored hundreds of peer-reviewed papers and is recognized world-wide as a leading expert in cardiac preconditioning. Dr. Downey enjoyed continuous funding from the National Institutes of Health (NIH) and the American Heart Association over the decades. Dr. Parker came to the University in 1978 and is an internationally recognized authority in pulmonary physiology. He also is the author of many peer-reviewed papers and review articles in the field, and has been funded by the National Institutes of Health, the Parker B. Francis Foundation, and other agencies over his long career with the College of Medicine. Dr. Parker has been a member of the Center for Lung Biology since its founding. Both Dr. Downey and Dr. Parker remain as Emeritus Professors and are still active in research and teaching in the College of Medicine. A reception for their retirement was held on May 18th of this year at the University Faculty Club.

The Department of Physiology also welcomed new faculty member, Dr. Michael Lin, who joined the Department as an Assistant Professor in April of this year. Dr. Lin received his doctorate in Physiology from the Loma Linda School of Medicine in California and did his postdoctoral work at the Vollum Institute in Portland, Oregon. Dr. Lin was awarded the competitive NIH Transition Grant (R00) and is currently funded for his work on ion channel physiology.

The Department of Physiology faculty continues to be successful in receiving extramural grant support and contributing scientifically to their fields. Dr. Steve Ballard was awarded a state contract in collaboration with Auburn University Veterinary School for initiating a swine breeding program for investigating cystic fibrosis. Other faculty members have grants from the National Institutes of Health and the American Heart Association. Drs. Downey, Mark Taylor, Mary Townsley and Jian Yang delivered oral presentations at national and international meetings this year. Dr. Townsley was a regular member of the National Heart, Lung, Blood Institute NITM Study Section. Dr. David Weber served as a member of the NIH and National Heart, Lung, Blood Institute VCMB Study Section and is a regular member of the American Heart Association review panel for Vascular Biology/ Blood Pressure Regulation. The faculty in the Department of Physiology continue to serve on editorial boards of several national and international journals and are members of many scientific societies.
Several educational initiatives have been undertaken by members in the Department of Physiology. With the new medical curriculum being inaugurated this fall, the faculty who taught in the Medical Physiology course in the Spring Term used the Team-Based Learning (TBL) approach for conducting Case Studies. Course Director, Dr. David Weber, initiated the TBL approach in anticipation of its use this year for first and second year medical student education. In addition, faculty members in the Department of Physiology as well as several Ph.D. graduate students from the Basic Medical Sciences Graduate Program, engaged in a teaching outreach activity with the Palmer Pillans Middle School here in Mobile. These individuals spent a day each this past winter with seventh grade students in their “Human Biology” class talking with the students about various aspects of human anatomy and physiology and relating to them the importance of medical research.

The goal was to engage these youngsters in discussions about understanding how the body works and how science can be an interesting career choice as they move on with their education. Additional outreach activities are planned for next year with the Pillans students and other pre-high school students at other schools.

Graduate student activities are also an important part of the Department’s educational mission. This year, our faculty taught in several Ph.D. level courses and Dr. Townsley continued her role as course director for “Biostatistics and Experimental Design.” Dr. Weber, Associate Professor of Physiology, continues his role as the Director of the Vascular Biology Program and is the course director for “Research In Progress in Vascular Biology,” a course which focuses on discussion of original research topics and literature reports. In addition, new courses in “Cardiovascular Physiology” and “Cardiovascular Pathology” are being constructed in the Vascular Biology focus area to replace the former Graduate Physiology Special Topics courses that were based on the former Medical Physiology course. Four students have graduated from the Basic Medical Sciences Graduate Program in Vascular Biology and are currently postdoctoral fellows – three at other institutions. Eight students are currently matriculating in the Vascular Biology focus area. Dr. Townsley continues her role as the Principal Investigator and Director on the NIH Institutional Training Grant in Lung Biology.
2011-2012
Summary of Scholarly Activities
Department of Psychiatry

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Brooks WB. Invited speaker. ECT in older adults. Geriatric Psychiatry Grand Rounds at Miriam Hospital; 2012 Apr 19; Providence, RI.

Engeriser JL. Invited speaker. Mental health issues in combat veterans. NAMI Mobile County; 2012 Sep 19; Mobile, AL.

Franks RD. Invited speaker. MR5 update. 2011 AAMC Annual Meeting; 2011 Nov 5; Denver, CO.

Franks RD. Invited speaker. Advances in undergraduate medical education. Federation of State Medical Boards 100th Annual Meeting; 2012 Apr 27; Ft. Worth, TX.

Langhinrichsen-Rohling J. Invited speaker. The context surrounding women’s perpetration of intimate partner violence. Women and Intimate Partner Violence symposium, 45th Annual Convention of the Association for Behavioral and Cognitive Therapies; 2011 Nov 15; New Orleans, LA.


Parker SK. Invited speaker. Overhauling the system: from stonewall stickney to today. Alabama Psychiatric Physicians Association Spring Meeting; 2012 Apr 27; Montgomery, AL.

Parker SK. Invited speaker. Expert panel on developments in community mental health. NAMI Baldwin County; 2012 Apr 17; Fairhope, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Sandra Parker, M.D. is the 2012 recipient of the Bruno Lima Award for her work in coordinating care for victims of Hurricane Katrina and the BP oil spill. The Bruno Lima Award winner is selected by the American Psychiatric Association Committee on Psychiatric Dimensions and Council on Research and Quality Care to recognize outstanding contributions of members who contribute to the care and understanding of victims of disasters. Fellow, American Psychiatric Association; President-Elect, Alabama Psychiatric Physicians Association; President, Mobile Bay Psychiatric Society; Member, Mobile County Domestic Violence Taskforce; Governor’s Appointee, Alabama Interagency Autism Coordinating Council; Member, Impact 100 Baldwin County; Board of Directors, Distinguished Young Women of Baldwin County; Member, University of Alabama College of Arts and Sciences Leadership Board.

Raymond A. Lorenz: Member, Student Committee of Psychiatric and Neurologic Pharmacists; Inducted as Graduate Brother of Phi Delta Chi Professional Pharmacy Fraternity; Member, Pharmacy Residency Advisory Committee, Mobile Infirmary Medical Center; Member, Pharmacy and Therapeutics Committee, AltaPointe Health Systems; Member, Medical Staff Committee, AltaPointe Health Systems; Editorial Board member, The Mental Health Clinician. Reviewer, Pharmacotherapy.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Red Sash Award from the University of South Alabama College of Medicine’s graduating class of 2012 was awarded to Eric Leonhardt, D.O, and Bayani Abordo, M.D. Dr. Abordo is a three-time recipient.
The Department is continuing its involvement in local and district branch activities of the American Psychiatric Association. Sandra Parker, M.D. continues as president of the Mobile Bay Psychiatric Society. Dr. Parker also was elected president-elect of the Alabama Psychiatric Physicians Association (APPA) at their annual spring meeting in Montgomery, AL.


Eric Leonhardt, D.O. is Board Certified in Adult Psychiatry.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Brogdon BG. Invited speaker. Two heads are better than one. The Southern Radiological Conference 2012; 2012 Jan 28; Point Clear, Al
Brogdon BG. Invited speaker. Expensive errors. Texas Tech Radiology Conference; 2012 Apr 17; El Paso, TX.

Brogdon BG. Invited speaker. Historical perspective of recent advances in forensic radiology. Texas Tech Radiology Grand Rounds; 2012 Apr 18; El Paso, TX.


Brogdon BG. Invited speaker. The history and status of forensic radiology. University of New Mexico Medical Center and the Office of Medical Investigator of the State of New Mexico; 2012 Jul 9; Albuquerque, NM.

Brogdon BG. Invited speaker. Overview of forensic radiology and applications in anthropology. Syracuse University Dialogues in Forensic Science: Use of Radiographic Images in Identification and Trauma Analysis; 2012 Jul 20; Syracuse, NY.

Brogdon BG. Invited speaker. The history of forensic imaging from x-ray to virtopsy. The Second French Congress; 2012 Sep 21; Marseille, France.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Byron G. Brogdon is a member of the Advisory Board of Virtopsy Foundation, Berne, Switzerland; Dr. Brogdon serves as member of the National Institute of Justice/Forensic Science Foundation Research Grant Committee. He is a member of the Forensic Science Foundation Research Committee and a referee for the Forensic Science Foundation Acorn and Lucas Grants. Dr. Brogdon serves on the Historical Committee of the General Section of the AAFS. He is on the Board of Directors of the Senior Radiological Section of the American Skeletal Society and was chairman for the 2011 meeting. He is an evaluator of graduate degree thesis for the University of Western Australia. There is a film panel named in the honor of Dr. Brogdon at the Southern Radiological Conference annual meeting and the Brogdon Panel is an annual event at the meeting of the American Alliance of Academic Chief Residents in Radiology. To add to Dr. Brogdon’s accomplishments for this past year, Dr. Brogdon was Keynote speaker at the initial meeting of the International Society for Forensic Radiology and Imaging where he became both a charter member and the first honorary member. He has contributed expert testimony to numerous civil and criminal cases across the United States. Dr. Brogdon served as a judge for the Emerging Forensic Scientist Award at the AAFS Annual Meeting. He reviews manuscripts and abstracts for the Journal of Forensic Sciences and Forensic Science International. He is Patron of the International Association of Forensic Radiographers.

Dr. Brad A. Steffler serves on the Economics Committee/Work Group of The Society of Interventional Radiology. He serves as the Carrier Advisory Committee representative in Alabama for Interventional Radiology for the Society of Interventional Radiology.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Byron G. Brogdon conducts two to three Orthopaedic conferences as well as two to three Interesting Case conferences per month for the Radiology Residents although he is a Distinguished Emeritus Professor at the University. He serves as a consultant for cases within the University. Dr. Brogdon finished work on his sixth book, cited above. He attended his 60th reunion of his class graduating from the University of Arkansas School of Medicine in 1952.

Dr. M. Suzy Figarola has been appointed Vice Chair and Residency Program Director. She serves as Chair of the Radiology committee at USA Children’s & Women’s Hospital; Member, USA C&W Medical Executive Committee and Surgery Medical Staff Committee; Chair, Internal Radiology Residency Review Committee; Member, Graduate Medical Education Committee; Member, Faculty Committee on Appointments, Promotions and Evaluations (FCAPE); Member, Committee on Committees; and Member, Radiology Investigator Children’s Oncology Group.

Dr. Donald E. Herbert (Emeritus) continues to serve as a statistical consultant to several faculty members in the College of Medicine. He continues to serve as a reviewer for the journal Medical Physics. He is completing a monograph that will introduce medical physicists to the mathematics (finite mixture models, Bayesian meta-analysis, nonlinear stochastic delay differential equations) of complex systems and “personalized medicine.” The current draft of the monograph is 152 pages (82,788 words) in length. He is Emeritus Professor in the Department of Radiology.

Dr. Samuel A. McQuiston serves as the Director of Courses for COM Students interested in Radiology as a profession and as a part of their electives. Dr. McQuiston provides CME lectures on Thoracic Radiology and he also reviews cases of interest to residents. Dr. McQuiston gave 1st Year Orientation to 2012 incoming Radiology Residents. Dr McQuiston served as a member of USAMC Professional Improvement Committee. Dr. McQuiston serves as a member on the Curriculum Committee (CUR) and the Continuing Medical Education Committee (CME), as well as a member of the Radiology Residency Review Committee.

Dr. Yasmeen A. Qureshi serves as a member of the Resident Interview/Selection Committee for the Department of Radiology. She also as a member on the Trauma/Burn Q/A Committee for the University. Dr. Qureshi gives CME lectures on Mammography. Dr. Qureshi continues to promote Breast MRI Service. Dr. Qureshi is also involved in Women’s Imaging and programs including U/S guided and MRI guided breast biopsies. To add, she continues to be involved in INTACT Biopsy device for breast masses treated non-operatively. She serves on the Biomedical Environment and Diversity Committee for the University. Elected Secretary for College Senate Faculty.
The department strives to provide excellent patient care through diagnostic imaging and interventional radiology as well as train the next generation of physicians in radiology. In order to meet these goals we have recently updated our fluoroscopic imaging suite and begun renovations on our MRI building in anticipation of upgrading to a 3 Tesla magnet.

Our residents continue to receive training via the VA Gulf Coast (Biloxi) and our teleradiology hospitals.

Five residents completed the program this year. Dr. Stacey Black embarked upon a Fellowship in Interventional Radiology at the University of Arizona Health Science Center in Tucson, Arizona. Dr. Renee Bonetti began a Fellowship in Pediatrics at Vanderbilt University, Nashville, Tennessee. Dr. Eric Duffy began a Fellowship on Musculoskeletal at Penn State University in Hershey, Pennsylvania. Dr. Tara Otto also began a Fellowship in Musculoskeletal at the Mayo Clinic in Jacksonville, Florida. Dr. Brandon Nichols joined the George County Regional Radiology group in Lucedale, Mississippi.

The faculty recognition award for excellence in teaching was presented to Dr. Shikha Khullar by the 2012 radiology graduating class. The graduating class also presented a gift to Mrs. Vanessa Brown, Program Coordinator, for her outstanding contributions to their educational experience. Plaques were awarded to Drs. Michael Harpen and Donald Herbert, by the Radiology Department, for many years of excellent teaching to the residency program and dedicated services respectively.

Dr. Samuel McQuiston and Dr. Brad Steffler received the Red Sash award from the 2012 medical students graduating class and Dr. Steffler was appointed an Associate Member of the Mitchell Cancer Institute.

Mrs. Vanessa Brown was selected as the representative on the Graduate Medical Education Committee from the Program Coordinator Council.
2011-2012
Summary of Scholarly Activities
Department of Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Beals DA. Invited speaker. Fetal and neonatal urological abnormalities. 21st Annual OB/GYN Conference; 2012 Apr 13; Mobile, AL.

Brevard SB. Invited speaker. Blast injury. Surgery Grand Rounds, Mobile Infirmary; 2012 Jan 14; Mobile, AL.

Brevard SB. Invited speaker. Is helicopter evacuation effective in rural trauma transport? Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Brevard SB. Invited speaker. Penetrating thoracic arrow injury: a flashback to the wild west. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Brevard SB. Invited speaker. Panel discussion: trauma. Alabama and Mississippi Chapters of the American College of Surgeons Annual Conference; 2012 Jun 15; Destin, FL.

Contreras C. Invited speaker. Depletion of antibodies and serum-derived proteins to facilitate LC-MS detection of pancreas-specific proteins in pancreatic juice. American Association for Cancer Research: Pancreatic Cancer: Progress and Challenges; 2012 Jun 20; Lake Tahoe, NV.

Frotan MA. Invited speaker. Thermal injury. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 22; Mobile, AL.

Gonzalez RP. Invited speaker. Clinical clearance of the cervical spine in patients with distracting injuries: it is time to dispel the myth. Eastern Association for the Surgery of Trauma; 2012 Jan 13; Lake Buena Vista, FL.

Gonzalez RP. Invited speaker. Craniofacial impalement: projectile saw blade fragment to the head. Southeastern Surgical Congress; 2012 Feb 14; Birmingham, AL.

Gonzalez RP. Invited speaker. Current diagnosis and management of ARDS. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 22; Mobile, AL.

Gonzalez RP. Invited speaker. Is helicopter evacuation effective in rural trauma transport? Southeastern Surgical Congress; 2012 Feb 14; Birmingham, AL.

Gonzalez RP. Invited speaker. Tracheostomy timing in the intensive care unit: a retrospective analysis. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.
Luterman A. Invited speaker. Burn update. 21st Annual Surviving Trauma Conference: EMS District 1 EMS Council, Baptist Health Care, Sacred Heart Health System, West Florida Healthcare; 2011 Nov 19; Pensacola Beach, FL.


Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Mobile County Department of Health; 2012 Apr 11; Mobile, AL.

Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Atmore Community Hospital; 2012 May 16; Mobile, AL.

Nijhawan S. Invited speaker. Morbid obesity and indications of bariatric surgery. Franklin Primary Health Center; 2012 May 17; Mobile, AL.

Richards WO. Invited speaker. Mesenteric ischemia still a problem with early diagnosis and gastroparesis treatment with implantable gastric simulators. Auckland NZ GI Motility Meeting; 2011 Nov 1; Auckland, New Zealand.

Rodning CB. Invited speaker. Cervical pharyngostomy. Southeastern Surgical Congress; 2012 Feb 13; Birmingham, AL.

Rose M, Richards WO. Invited speakers. Laparoscopic longitudinal jejunectomy for intussusception after gastric bypass. Southeastern Surgical Congress; 2012 Feb 12; Birmingham, AL.

Simmons JD. Invited speaker. APRV – basic concepts and principles. Surgery Grand Rounds. University of Mississippi Medical Center; 2011 Nov 9; Jackson, MS.

Simmons JD. Invited speaker. Diagnosis and management of urological injuries. 3rd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2012 Mar 23; Mobile, AL.

Simmons JD. Invited speaker. Oxygen utilization. Hardy Society Meeting; 2012 Apr 19; San Destin, FL.
Simmons JD. Invited speaker. The mangled extremity. Alabama and Mississippi Chapters of the American College of Surgeons Annual Conference; 2012 Jun 15; Destin, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Sidney B. Brevard: Diplomat: American Board of Surgery; Fellow: American College of Surgeons; Member: Society of Critical Care Medicine; Member: Eastern Association for the Surgery of Trauma.

Carlo M. Contreras: Reviewer: Journal of Palliative Medicine, Annals of Surgical Oncology.

D. Lynn Dyess: Guest editor, American Surgeon Board.

M. Amin Frotan: Member: 2012 American College of Surgeons, 2012 Eastern Association for the Surgery of Trauma, 2012 Society of Critical Care Medicine, 2012 American Burn Association, Association for the Surgery of Trauma.

Roy E. Gandy: Editorial Board: Current Surgery; Member: Association of Program Directors in Surgery; Member, Association for Surgical Education.

Richard P. Gonzalez: Chairman, Gulf Region State Trauma Advisory Council, Mobile, AL; Member: Alabama State Trauma Advisory Council; Member: Committee on Trauma Care, Medical Association of State of Alabama; Member: Advisory Board, University of Alabama Birmingham Transportation Center; Reviewer: Journal of Trauma, Journal of American College of Surgeons, Journal of Surgical Education, American Surgeon.


Sheetal Nijhawan: Ad hoc Reviewer: Surgical Endoscopy; Member: Society of American Gastrointestinal and Endoscopic Surgeons (SAGES), Member: American Society of Metabolic and Bariatric Surgery (ASMBS); Associate Fellow: American College of Surgeons (ACS); Writer: ExamMaster.com.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Medical Student Education: The Department of Surgery continues to have a leadership role in many aspects of student education. Drs. Brevard, Dyess, Gandy, Gonzalez, Hodge, Luterman, Rodning, Richards, and Simmons, and were awarded the red sash award by the senior medical students for their contributions to education. In addition, many faculty including Drs. Luterman and Richards are playing a vital role in creating active learning exercises for the first and second year students under the new curriculum.

General Surgery Residency Training: William O. Richards, M.D., F.A.C.S. took over as Program Director and along with the newly recruited associate program director Jon Simmons, M.D., F.A.C.S. implemented multiple changes in resident education with very
positive results. The number of categorical general surgery residents was increased from 4 to 5 residents per year and 5 new categorical PGY 1 residents were matched to the program. The ACGME Residency Review Committee made a site visit to the program in August 2012 and found substantial improvements in all areas of resident education.

**Recruitment**: With the retirement and resignation of several faculty the Department has recruited heavily to fill positions and increase the clinical, academic and educational missions of the Department. Five new faculty members (Drs. Frotan, Gosche, Gulati, Nijhawan, and Simmons) were recruited to the Department of Surgery.

**Division of Traumatology/Surgical Critical Care**: Richard P. Gonzalez, M.D. F.A.C.S. Professor and Director of the Division and has submitted an application to create a new Surgical Critical Care Fellowship program.

Dr. Mohammad Amin Frotan was recruited from fellowship training in Surgical Critical Care and has been made Director of critical Care in the Burn Unit. Dr. Frotan has made a huge impact in resident education with many hours spent on mock oral boards and preparation for clinical practice.

Dr. Jon Simmons was recruited from fellowship training in Surgical Critical Care and has provided outstanding leadership for resident education as the newly appointed Associate Program Director for General Surgery Residency training program. Many of the accomplishments for the residency program and the tremendous advances in academics, ABSITE performance, and educational activities of the Department of Surgery can be directly attributed to Dr. Simmons.

**Pediatric Surgery**: Dr. John Gosche, an experienced pediatric surgeon who was the Chief of Pediatric surgery at the University of Nevada Las Vegas, has been recruited to the Division. Dr. Gosche has an excellent reputation as an outstanding surgeon and educator, and he will fill the void left by the departure of Dr. Celeste Hollands.

**Colorectal Surgery**: Dr. Paul Rider has developed a multidisciplinary colorectal cancer clinic at the Mitchell Cancer Institute in collaboration with radiation and medical oncologists in order to provide improved cancer care in the region. He has been instrumental in developing a clinical research program that identified best practices for rectal surgery. Dr. Rider has provided an expert clinical service in Colorectal Surgery across the board and increasingly, USA Department of Surgery is recognized for its clinical expertise in colorectal and gastro-intestinal surgery.

**General Surgery**: A generous endowment by Dr. Charles and Mary Rodning for the educational activities of our residents has been a tremendous boost. Many faculty and staff as well as outside surgeons have given generously to this fund which continues to increase its endowment.

**Breast and endocrine**: Dr. Lynn Dyess has moved to the MCI clinics and has increased her clinical load substantially. We are adding nurse practitioner clinics so that they can
provide long term care for breast cancer patients as well as starting a new thyroid clinic for evaluation and treatment of thyroid lesions. This will enable Dr. Dyess to focus on new patients to the practice with a subsequent increase in surgical procedures.

**Plastic and Reconstructive Surgery:** Dr. Salil Gulati was recruited from fellowship training in Plastic and Reconstructive surgery to provide expert burn care as well as reconstructive surgery in the division. He serves as the Medical Director of the USA Regional Burn unit. This has led to the very successful transition from the directorship of Dr. Arnie Luterman to Dr. Gulati serving as the Medical Director and Dr Frotan as the Critical Care Director of the burn unit. Recently, Drs Gulati, Frotan, and Hodge attended the American Burn Association meeting with other members of the Burn Unit, and have started multiple clinical research projects.

**Gastrointestinal and Bariatric surgery:** Dr Sheetal Nijhawan was recruited from Fellowship training in order to amplify our minimally invasive and bariatric surgery capabilities. She been awarded a Society of American Gastrointestinal and Endoscopic Surgeons research award (SAGES) for 2012: “Effects of Bariatric Surgery on Mitochondrial Function and Insulin Resistance.” She has been instrumental in implementing the bariatric surgery database, and providing outreach programs, talking to physicians around the region that has increased our referral base for bariatric surgery.

**Surgical Oncology:** Dr. Carlo Contreras has served as the local Program Director at Providence Hospital developing a very fine rotation with high levels of resident satisfaction. He has been able to develop research collaboration with other members of the USA Mitchell Cancer Institute and with our Division of Gastroenterology.

**Research:** The Department has increased collaboration between basic science departments specifically; the research collaborations between Drs. Gillespie, Alvarez, Cioffi, and others have been very fruitful. We have implemented a clinical core to collect blood, muscle and other tissue samples from our patients and to measure microcirculation non-invasively in critically ill trauma and burn patients, ultimately, with the goal to submit a P50 trauma/burn center grant in collaboration with basic science departments in the COM. In addition, avenues of research developed between the basic scientists in the COM and surgeons looking at reversal of the metabolic syndrome after bariatric surgery have resulted in 2 competitive grants being funded.

William Richards, M.D. F.A.C.S. was awarded an American Society of Metabolic and Bariatric Surgeons (ASMBS) grant in 2011 for “Vascular Endothelium Changes after Bariatric Surgery.”
2011-2012
Summary of Scholarly Activities
Department of Biomedical Library

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Burnham JF. Invited speaker. Medical librarianship. University of Southern Mississippi LIS 642: Special Libraries (online course); 2012 Sep 27; Hattiesburg, MS.

Clanton C. Invited speaker. Introduction to computers/MedlinePlus. Our Neighborhood Healthcare Clinic at Dumas Wesley, Sybil Smith Family Village; 2011 Nov 17; Mobile, AL.

Clanton C. Invited speaker. Introduction to computers/MedlinePlus. Our Neighborhood Healthcare Clinic at Dumas Wesley, Sybil Smith Family Village; 2012 Jul 31; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Robert Britton: Co-editor of Synapse, the newsletter of the Alabama Health Libraries Association; Member, Academy of Health Informational Professionals.

Judy Burnham: Member, Medical Library Association Estelle Brodman Academic Librarian of the Year Award Jury and now Chair of that Jury; Research Mentor, Southern Chapter/Medical Library Association; Member, Honors and Awards Committee for Southern Chapter/Medical Library Association; Member, Program and Education Committee of the Association of Academic Health Science Libraries; Chair-Elect Consortium of Southern Biomedical Libraries (CONBLS); Distinguished member of the Academy of Health Information Professionals.

Clista Clanton: Member, Our Neighborhood Healthcare Clinics Advisory Council; Senior member of the Academy of Health Information Professionals.

Trey Lemley: Member, Medical Library Association Louise Darling Medal for Distinguished Achievement in Collection Development in the Health Sciences; Member, Research Committee of Southern Chapter/Medical Library Association; Member, Southern Chapter/MLA History Committee; Member, Academy of Health Information Professionals.

Jie Li: Chair, Health Libraries Partnership Committee of International Cooperation Section/Medical Library Association; Member, Cunningham Fellow Itinerary Committee, International Cooperation Section/Medical Library Association; Chair, Emergency Preparedness Committee, Alabama Health Libraries Association; Member, Emergency Preparedness Committee/Regional Advisory Committee/National Network of the Libraries of Medicine (NNLM) Southeast-Atlantic Region (SE/A); Member, Online Content Committee for the Network of Alabama Academic Libraries; Distinguished member of the Academy of Health Information Professionals.
Justin Robertson: Member, Public Relations Committee, Southern Chapter/Medical Library Association; Editorial Boards: *Journal of Electronic Resources in Medical Libraries; Perspectives in International Librarianship*; Member, Consortium of Southern Biomedical Libraries (CONBLS) Nominating Committee; Member, Technology Committee, National Network of Libraries of Medicine (NN/LM) Southeastern Atlantic Region (SE/A); Co-State Administrator, Health InfoNet/Go Local Expansion Project; Member, Health InfoNet Advisory Board; Member, Health InfoNet Education Committee; Member Health InfoNet Standards Committee; Senior member, Academy of Health Information Professionals.

Geneva Staggs: Member, Southern Chapter/Medical Library Association Nominating Committee; Distinguished Member, Academy of Health Information Professionals.

Andrea Wright: Member, Communications Committee, Southern Chapter/Medical Library Association; Member-at-Large, Alabama Health Libraries Association; Web Co-Coordinator, Alabama Health Libraries Association; Member of the Academy of Health Information Professionals.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

**Services**

Two librarians continue to attend committee meetings, including hospital management meetings at both the Medical Center and Children’s and Women’s Hospital as well as the Graduate Medical Education Committee. A librarian continues to serve on the College of Medicine (COM) Curriculum Committee and has participated in the revision of the COM curriculum. The Evidence-Based Medicine/Medical Informatics Thread (EBM/MI) was revised and integrated into the new curriculum. A Biomedical Library librarian continues to serve on the COM Continuing Medical Education Committee. Two Biomedical Library librarians serve on Faculty Senate (one for University Libraries and one as Caucus Leader for the College of Medicine.) A Biomedical Library librarian serves on the University Library Committee. The Biomedical Library Director also serves as ex-officio member of the University Library Committee.

Librarians are training for the University’s new content management system, Sakai, and Project Sites have been set up for the EMB/MI thread and for Biomedical Library instructional sessions.

Biomedical Library librarians provided orientation for new medical students, third year medical students, and new COM faculty as well as an online orientation tutorial for new residents. They also prepared online modules for independent learning activities for the EBM/MI thread. Library instruction was also provided for College of Nursing and College of Allied Health Professions students.

A web page with information on mobile access and apps for both our subscribed resources and free resources was developed.
As a part of the USAMC Heart Team, a Biomedical Library librarian provided information used in the development of guidelines and procedures for the new heart patient protocols. Additionally, she developed a patient education protocol for patients scheduled for heart procedures. She applied for and received grant funding to purchase needed equipment and supplies for this project.

An iPad Users Group was investigated, but because of lack of participation, other avenues to communicate information about utilization of iPads will be used, i.e., blog posting, Facebook and Biofeedback.

Twelve laptops were transferred from COM Educational Technology and Services to the Biomedical Library. These will be available for in-house check-out at both the Campus site and the Medical Center site of the Biomedical Library.

To enhance the new COM curriculum, a Clinical Skills Multimedia web page has been developed with links to appropriate videos and audio tools.

Biofeedback, the Biomedical Library newsletter is now published bi-monthly in blog format.

A Biomedical Library librarian continues to check citations for both College of Medicine dissertations and for the College of Medicine Annual Report.

**Facility**

Effective 12/1, the Children’s and Women’s Hospital Library site is not staffed. The Assistant Director worked to develop a plan for the transition. The plan was communicated to appropriate C&W Hospital administration. Instead, the library is open/closed each day by C&W Security. Staff from HIRC at USAMC visits the C&W site daily to check for problems. The Biomedical Library Systems Department checks weekly. A greeting screen with contact information is available on a monitor on the desk. A phone is located on the desk for contacting the Campus Reference Desk and the C&W Library phone is forwarded to HIRC. Appropriate phone numbers are laminated to the front desk. Hospital administration schedules usage of the conference room in the facility. Procedures were developed and posted for operation of the projection equipment. Procedure was developed for copy cards. A book return was ordered and installed. The cash register was removed.

The student break room at the campus site of the Biomedical Library has proved popular. In addition to two tables/chairs and a microwave, the room contains snack and soft drink vending machines and a coin-op coffee unit.

Funding has been identified to set-up wireless printing at the Baugh (Campus) site. Funding has also been identified to repurpose the computer lab into an inter-professional collaborative learning center.
The reference collection was weeded to remove obsolete books. Because many of the texts are now available electronically, the current shelving was not needed after the weeding project and the shelving was removed.

A problem with after-hours entry at HIRC/USAMC was resolved with the installation of a new door lock. During a period of time, after-hours access was not available.

A plan is being developed to combine the Circulation and Reference areas into a single service point on the first floor.

**Outreach**

During National Medical Libraries Month, webinars and classes that focused on Biomedical Library resources were held.

Biomedical Library librarians participated in the USA Benefits Fair. Biomedical Library librarians participated in the University pipeline programs, DREAM, STARS and STRIPES. For STARS and STRIPES, instruction was provided on conducting library research. A librarian participates in an outreach project at Dumas Wesley and 15 Place with Our Neighborhood Healthcare Clinic, providing instruction on health literacy and on accessing quality health care information.

Biomedical Library librarians acquired extramural funding to exhibit at the following meetings: Alabama Pharmacy Association, Alabama Family Physicians and Alabama Occupation Therapy Association. Each exhibit focused on the resources provided by the National Library of Medicine as well as other quality resources.

The Biomedical Library continues to participate in the Center for Healthy Communities activities including the Health Disparities Research Group, and the Community Health Advocates.

**Resources**

The following e-book collection was added this year:

- 412 Springer e-book titles were added via the Network of Alabama Academic Libraries including subjects Biomedical and Life Science, Behavioral Sciences (publication year 2012).

All appropriate new e-book titles were added to the e-book search page and work is progressing to add them to the online library catalog.

An analysis of the journals included in the AMED database was conducted. It was found that all but 69 of the over 500 titles are available in other databases. These 69 titles are obscure, not essential titles. The resource was cancelled.

The collection assessment project is continuing with outdated resources being withdrawn from the collection.
To better support the new COM curriculum, access to Access Medicine was converted to a model that allows unlimited simultaneous users.

After analysis of various tools that could be used to better utilize the Biomedical Library e-book collection, the EBSCO Discovery Service was selected. This resource was purchased in conjunction with the University Library. Interface to the tool is being developed.

**Personnel**

One employee, Marian Lee, retired during the year and another, Loretta Johnson, passed away. With the changing in staffing of the Children’s and Women’s Hospital Library site, two paraprofessionals were transferred from C&W Hospital Library to campus to fill vacant positions. Because of budget reduction, three staff positions and one librarian position are unfilled at this time.

**Miscellaneous**

The estate of Dr. Nestor Flodin donated $25,424.98 to the Biomedical Library. These funds will be used for the wireless printing project and the inter-professional collaboration center.

Based on a projected budget reduction, the Biomedical Library developed a plan to cut expenses 10% for 2011-2012 FY. Savings will include unfunded positions, restricted hours at the C&W hospital library, shortened hours at the campus location, restricted travel funds and cuts in resources.

The faculty and graduate students of the College of Allied Health Professions (AH) were surveyed to determine satisfaction with the services and resources. Overall, AH faculty rated the services, facilities, web page and collection greater than 4.3 on 5.0 scale. Overall AH graduate students rated the services, facilities, web page and collection greater than 4.0 on a 5.0 scale. Results of the surveys, especially the comments will be used during the planning process for 2012-2013.

Aggregate data from the Summary of Value of Library and Information Services in Patient Care Study was received. Data from USA participants was equivalent in most areas to that from the national data. USA data indicates that information made a difference in how a clinical situation was handled and had a positive effect on patient care. Data indicates the information was valuable and saved the clinician time and that adverse effects were avoided as a result of the information. Data indicates that the library/information resources are more important to physicians than discussion with colleagues or lab tests. Of the top five resources, the Biomedical Library provides access to three resources and the hospital provides access to the remaining two.
Online journals, UpToDate and MEDLINE are the top information resources for USA physicians and residents. Of the ten resources listed, the Biomedical Library provides access to seven. Data indicates areas of educational need concerning other resources available from the Biomedical Library and also indicates the need for education on library web page vs search engine. Overall participation for USA was 10%.

A Biomedical Library librarian is working with the IPEC Working Group, a team of colleagues from the Colleges of Medicine, Nursing, Allied Health Professions, and the Department of Sociology, Anthropology, and Social Work that are interested in Inter-professional Education and Collaboration (IPEC). The group recently received an intramural grant to evaluate IPEC across the health sciences at USA.

A Planning Retreat was held to develop goals for 2012-2013.
General Operations

The CLB’s mission is to provide state-of-the-art scientific development in lung biology that advances the understanding of human health and disease, to improve patient care, and to serve as the foundation for outstanding graduate, post-graduate, and fellowship training. More than 40 faculty members and 25 graduate students, postdoctoral fellows and pulmonary fellows from various departments within the College of Medicine are actively participating in a strong collaborative research environment, a research seminar series and journal club, and graduate, postdoctoral and fellowship training.

The CLB submitted its biannual Newsletter in November of 2011 and again in July of 2012. These issues were distributed to our academic colleagues throughout the country as a way to illustrate exciting research and academic opportunities in the Center. Our next issue will be released in the Fall of 2012 (http://www.usahealthsystem.com/CLBNewsletter).

We have continued to update our CLB website along with the College of Medicine. Our Meet the Professor series shares the academic lives and careers of our CLB faculty. In this series, we take an in depth look at where our faculty member started, and the life and career decisions that impacted where they went, what they studied, and how they did. We look at their successes and their failures, and probe how these outcomes impacted their next career stage(s). This series is a personal tribute to the lives we lead. You see from this series that not all life decisions are scripted, that the reasons for why decisions are made are not always clear, and that life changes along the journey repeatedly probe our value systems. Enjoy this personal tour through our faculty's life experiences. Our next series will interview Dr. Ivan F. McMurtry. Come meet our professors at http://www.usahealthsystem.com/MeettheProfessor.

The Running and Walking Club provides a coordinated mechanism for CLB members to share in their active lifestyles. Members meet twice a week in front of the Medical Sciences Building for a group run/walk. In addition, we run and walk at area-sponsored 5K, 10K, half marathon and marathon events. Workout schedules are provided online in the Training Schedule section. The workout schedule is adaptable for any individual's goals. We also provide a summary of recent scientific articles that highlight important health issues in our Science for Health section. Our second article on Run Forest Run...like your life depends on it is shown below. Visit our Running and Walking Club at http://www.usahealthsystem.com/RunningandWalkingClub.

Science for Health

Run Forest Run...like your life depends on it. Considerable attention has been paid to the value of daily exercise, including a reduction in susceptibility to cardiovascular disease. In fact, the hemodynamic response to exercise is a
predictable determinant of cardiovascular health, and for these reasons, has become increasingly important in documenting health status. Cardiovascular risk is associated with an exaggerated blood pressure response to exercise, and exercise capacity provides an objective assessment tool for cardiovascular reserve. For example, the six-minute walk test is a standard assessment tool for the integrated indices of cardiopulmonary hemodynamic status in pulmonary hypertension patients.

While it is increasingly well known that daily aerobic exercise improves cardiovascular health, the link to longevity has not been systematically tested. This issue was recently addressed by a multi-center group of investigators led by Dr. Koch at the University of Michigan.1 These researchers took advantage of rats selectively bred into groups with high and low aerobic capacities, capacities that were tested using treadmill running capacity. Cohorts of the rats bred from generations 14, 15, and 17 were tracked for survivability, in relation to cardiovascular fitness, including measurements of maximal oxygen uptake. The mean lifespan of low aerobic capacity rats was as much as 45% shorter than the lifespan of high aerobic capacity rats; 50% survival of low aerobic capacity animals was 24 months, and of high aerobic capacity animals was 36 months. Declines in systolic and diastolic cardiac function were documented as rats aged, and were especially prominent in low aerobic capacity animals. These collective findings reveal that chronic aerobic exercise, and improvements in aerobic capacity, provides a longevity survival advantage. Perhaps we have the fountain of youth at our fingertips after all.

References


Our administrative offices are located in the Medical Sciences Building in Rooms 3340 and 3342 on the main University campus. Ms. Jennifer Collins and Ms. Charlene Jordan serve as support staff for the CLB and are responsible for clerical duties for the administrative office and research laboratories.

Detailed information about the CLB is available with a click on our homepage (http://www.usouthal.edu/clb). The web page is interactive and contains a variety of information including faculty and student bibliographies, recent publications, and information regarding scientific and training programs. A complete annual report is available through Ms. Charlene Jordan (414-8045) at the CLB office.
Research Activities

The CLB was well represented at national and international scientific meetings with a number of faculty, postdoctoral fellows, and graduate students presenting their work at multiple forums, including the American Heart Association, Federation of American Societies for Experimental Biology, American Physiology Society, and the International American Thoracic Society. Our Critical Care Conference series in conjunction with the Pulmonary Division hosted three speakers. This conference focuses on translational research and acute lung injury, and is held monthly on Fridays at 2:00 pm. Dr. Andrew Paul Fontenot, Henry N. Claman Professor of Medicine, and Head, Division of Allergy and Clinical Immunology at the University of Colorado Denver School of Medicine presented *How metals become antigens: role of genetic susceptibility and T cell activation in beryllium-induced disease?* Dr. Natalie Bauer, Assistant Professor of Pharmacology at the University of South Alabama presented *Microparticles in pulmonary vascular disease.* Dr. Stephen Ballard, Professor of Physiology at the University of South Alabama presented *Mucociliary Transport, Glands, and Cystic Fibrosis Lung Disease.*

Extramural Funding

In the past year, CLB principal investigators submitted 22 grant applications to the American Heart Association (AHA), National Institutes of Health (NIH), and other foundations/industries. To date, two of these applications along with four from the previous fiscal year were awarded generating over $12.1 million in new revenue over the next five years. This represents a 46% success rate in grant submission for this fiscal year with 9 applications pending.

The Center received four awards from NIH and two awards from outside foundations. Dr. Mark Gillespie received a R01 Research Grant and a subcontract with Excien Corporation on a R41 Small Business Technology Transfer program grant. Dr. Troy Stevens received a competitive renewal on our P01 Program Project Grant, and Dr. Audrey Vasauskas received an F31 National Research Service Predoctoral Fellowship. Dr. Sarah Sayner received a pulmonary research fellowship from the Parker B. Francis Foundation. Dr. Victor Solodushko received a grant in aid from AHA, Greater Southeast Affiliate.

Education

During this academic year, 24 predoctoral fellows trained in the laboratories of CLB faculty. Of these trainees, 19 are affiliated with the Lung Biology track in the Basic Medical Sciences Doctoral Program. In this academic year, one CLB trainee held an individual predoctoral fellowship (F31) from the NIH (Ochoa). Cristhiaan Ochoa defended his dissertation in May 2012 and entered a physician scientist training program at University of Texas Southwestern in Dallas, Texas.

The NIH-funded T32 training grant on *Cell Signaling and Lung Pathobiology,* directed by Dr. Mary Townsley, is currently in its 9th year of funding. The T32 supports 6 pre-doctoral trainees per year, along with 4 short-term summer research trainees. Summer trainees are drawn from the COM medical students or engineering master's students who apply for summer research positions in the CLB.
The “Did you know?” series, now in its seventh year, is a series of brief historical perspectives authored by CLB trainees. These perspectives review influential discoveries that led to the modern understanding of pulmonary and critical care medicine. In this past year, our trainees authored articles on ventilation and preterm infants (Ashley DeCoux), discovery of the pulmonary circulation (Abdullah Alzoubi), and carbon nanotubes and lung disease (Patricia Villalta). The archives of the series can be found at: http://www.usahealthsystem.com/archives.

Finally, the CLB and the Division of Pulmonary and Critical Care held the first collaborative “Annual Lung Bowl” in June 2012. Predoctoral students, postdoctoral fellows, and clinical fellows in CLB training programs were organized into five teams for the competition, while CLB faculty, staff, and undergraduates cheered teams on. Using a team-based learning format, teams tackled case scenarios focused on pathophysiology or clinically-relevant problems. Points were accumulated from individual and team responses to questions in the case scenarios, quick fact questions in the speed round, and the final jeopardy round where teams could bet all-or-nothing on their response to a final historical question. Team “Pulmonauts” – Ali Riaz, Audrey Vasauskas, Jared McLendon, and Patricia Villalta – became the 2012 Lung Bowl Champions.
2011 – 2012
Summary of Activities
Center for Healthy Communities

Overview
The USA Board of Trustees established the Center for Healthy Communities on September 4, 2004 to help the University better address the needs of underserved residents in the Gulf Coast Region. The Center has enjoyed continued growth and development during its existence and has achieved local, regional and national recognition as an effective vehicle by promoting education, research and public service for targeted communities.

The primary activities of the Center are under the umbrella of the Center of Excellence Grant (P-20) of the National Center for Minority Health and Health Disparities of the NIH. The bulk of the Center’s community outreach programs are funded by that grant. The Center has enjoyed funding for several other research projects. In this report we have included a summary of Activities for the last year of the Center of Excellence Grant and brief summaries of other research projects taken on by the research core.

Of note, the Center successfully renewed its Center of Excellence Grant from the National Center of Minority Health and Health Disparities (1P20 MD002316). We received notification of grant renewal for 5 additional years in June 2012. Funding will continue at current levels ($950,000 per year, direct). The dates of funding for the 5 year renewal are February 1, 2012 through January 31, 2017. The grant ending June 30, 2012 (the first 5 years of the P-20 Center of Excellence Grant) will run with a no cost extension through January 31, 2013.

Highlights:

Community Engagement Core (Directors: Roma Hanks, PhD, Hattie Myles, PhD):
We continued our Community Health Advocate (CHA) Program and our Pipeline Programs. The CHA’s continued to promote improved community and individual health through a variety of initiatives, including CHA Directed Projects. These projects have been focused on obesity, physical activity, nutrition, hypertension, diabetes and prevention and cardiovascular disease.

The Pipeline Programs had another successful year. During the summer of 2012 there were 13 students participating in the STRIPES program (rising high school juniors) and 12 students participating in the STARS program (rising high school seniors). Four students participated in the Shadowing Program (rising college freshmen). Six students participated in the Undergraduate Research Program (college undergraduates and medical students).

Research Core:
The research core was busy over the last year with several projects and the Health Disparities Research Group (HDRG). The HDRG continued with its collaborative projects with the Bay Area Women’s Coalition and has continued the initiative of research apprentice started several years ago. This program has resulted in a newly funded pilot project focusing on enhancing care of diabetes in the Trinity Gardens Community.
The Research Core had a portfolio of other projects. This includes projects directed toward addressing health disparities after a disaster (led by Dr. Martha Arrieta, Core Director), health benefits of family meals (Sharon Fruh, CRNP), the relationship between health utilization and labor history in poor neighborhoods in Mobile (Ken Hudson, PhD), the relationship between a novel protein and cardiovascular disease (William Gerthoffer, PhD), and understanding health literacy (Thomas Shaw, PhD). We have used a community based participatory research approach to development and implementation of these projects.

Health Information Dissemination:
We had a successful Regional Health Disparities Symposium on April 13, 2012. The title of the Symposium was “Community Academia: Partners for Eliminating Health Disparities and Promoting Equity in Care.” It was held at Via! Health, Fitness, and Enrichment Center in Mobile, AL. We focused on bringing together our community and academic partners and discussing our accomplishments and plans for the future. We had two keynote speakers. Mrs. Tara Taylor of the YMCA of Greater Cleveland, OH highlighted efforts of her organization to reduce obesity and improve physical activity among children using a program they developed called “We Run This City”. The other keynote speaker, Dr. Michael Minor, a Baptist Minister from rural Mississippi who has championed the churches role in promoting health, highlighted faith based initiatives to improve health in the African American Community. At this symposium we had several poster presentations that displayed the center’s work to date (2004 – 2012). Posters presented at this year’s Regional Health Disparities Symposium (April 13, 2012) are listed below.

POSTER SESSION for 2012 CHC Regional Health Disparities Symposium
April 13, 2012, Mobile, AL

Community Based Participatory Research


Pilot Projects

7. Fit and Faithful: Evaluation of a Church Based Fitness Program. Lee, R.

8. Zip Code-Level Mortality as Local Health Status Indicator. Arrieta MI, White HL.


14. Uncovering Health Literacy: Developing a Remotely Administered Questionnaire for Determining Low Levels of Health Literacy in Broad Based Populations. Shaw T.


18. Does Parents’ Knowledge of their BMI Status And Cardiovascular Risks (CV) Improve their Children’s BMI After 3 Months of Family Centered Intervention for Weight Management (FCI)? Preud’Homme D, Higginbottom L, Likely C, Phelps L, Pettry A, Blair-Elortegui J.

Student Work

20. Hospitalizations for Ambulatory Care Sensitive Conditions at the University of South Alabama Medical Center. Gulati A, Mohammed FA, Arrieta MI.


Collaborators Work


23. Librarians Contribute to Diversity in Health Care Professions. Rossini B, Burnham J, Wright A.


Community Engagement (Work with and by The Center’s Community Health Advocates)


27. The Peer Supported Diabetic Self-Management Program. Hodnett B.


29. Reaching the Community Through Health Ministry. Carter G.

Other Presentations:


**Other CHC Activities**

**Telemonitoring of blood glucose in type 2 diabetes:**
This project was funded by the Robert Wood Johnson Foundation (RWJF) Finding Answers Program and was done in collaboration with the Mobile County Healthy Department (Eichold, PI). In this project we test the hypothesis that real-time feedback for blood sugars via tele-monitoring will improve control of diabetes among health disparate populations. Analysis of this work neared completion over the last year and we have expectations of several manuscripts being submitted over the next academic year.

**Summary of Center for Healthy Communities Activities**

The 2011-12 year has been a productive year for the University of South Alabama Center for Healthy Communities. The Center of Excellence Grant continues to successfully address its objectives and was renewed for another 5 years. We continue to be a point of contact for investigators interested in addressing questions in health disparities. Our community and university partners continue to grow in number and commitment to our shared mission and vision.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Lafky D. Invited speaker. Countering the cyber threat in an emerging healthcare IT ecosystem. Military Electronic Health Records Conference; 2012 Mar 15; Washington, DC.

Lafky D. Invited speaker. Security integration into IT decisions. HIT Health Transformation Conference; 2012 Apr 3; Jacksonville, FL.


Roach RD. Invited speaker. Alabama One Health Record® - health information exchange and meaningful use overview. Alabama Medicaid Senior Staff Meeting; 2012 Feb 28; Montgomery, AL.

Roach RD. Invited speaker. Alabama One Health Record® - health information exchange and meaningful use overview. Alabama State University Health Information Management Assembly; 2012 Mar 9; Montgomery, AL.

Roach RD. Invited speaker. Alabama One Health Record® - health information exchange and meaningful use overview. Health Financial Managers Association Meeting; 2012 Mar 15; Huntsville, AL.
Roach RD. Invited speaker. Alabama One Health Record® - Alabama Medicaid, and the Alabama Regional Extension Center collaborative efforts. Centers for Medicare and Medicaid Services HITECH Conference; 2012 Apr 11; Baltimore, MD.

Roach RD. Invited speaker. Alabama One Health Record® - health information exchange and meaningful use overview. Alabama Physician’s Task Force Meeting; 2012 Apr 26; Montgomery, AL.

Roach RD. Invited speaker. Alabama One Health Record® - health information exchange and meaningful use overview. CPSI National Physician User’s Group Meeting; 2012 May 12; Sandestin, FL.


Roach RD. Invited speaker. Stage II meaningful use. Alabama Healthcare Information and Management Systems Society Meeting; 2012 Sep 21; Birmingham, AL.

Ross C. Invited speaker. In the eye of the storm: creating a community response network starts within your community. Alabama Primary Health Care Association 26th Annual Conference; 2011 Oct 6; Mobile, AL.


Wallace D. Invited speaker. Emergency preparedness for community health centers. Health Care for Residents of Public Housing Regional Training Meeting; 2011 Nov 8; Austin, TX.

Wallace D. Invited speaker. The capability and capacity of hospitals to respond to the April 27, 2011, tornadoes; planning and responding to high-impact weather disasters. American Meteorological Society’s Fourth Conference on Environment and Health; 2012 Jan 24; New Orleans, LA.

Wallace D. Invited speaker. Preparedness training for environmental and natural disasters. Gulf States Shipbuilders Consortium; 2012 Mar 28; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Deborah Lafky, Ph.D., MSIS, CISSP joined CSHI as Director in February, 2012. Previously, she served in the Office of the National Coordinator for Health IT, US Department of Health and Human Services. In that role, she directed the Health IT security function within the Office of the Chief Privacy Officer. She was the ONC lead for the Health IT Task Force Cybersecurity Working Group, chaired by the Hon. Howard Schmidt. She was the ONC lead for the Health IT Standards Committee, a Federal
Advisory Committee, and she was also the ONC lead for the Health Information Technology and Standards Panel Privacy and Security Working Group. Currently, she is a member of the board of directors of the National Health ISAC (Health and Public Health sector Information Sharing and Analysis Center, established under HSPD-7) and of the sector coordinating committee of the Health and Public Health sector. Dr. Lafky recently served as an advisor to the American Medical Association’s Health Security Card program, funded by the Center for Disease Control and Prevention. Dr. Lafky represents the Alabama Regional Extension Center at the executive level, including ONC Regional Grantee Meetings and at the REC Sustainability Summit in Denver, CO. She represented USA as a member of the Alabama Health Information Management Systems Society (HIMSS) advocacy group in September 2012, meeting with Congressman Bonner and his legislative assistant, along with legislative aides to Senators Sessions and Shelby on Capitol Hill. Dr. Lafky is active in professional societies including the American Medical Informatics Association, where she participates in the Consumer Health and Population Health workgroups; HIMSS, the Association for Information Systems (AIS), and ISC², the professional society for information security. She serves on the advisory board for the American Medical Association’s Health Security Card for Use in Disasters and Public Health Emergencies: Translating Research into Practice. Dr. Lafky leads the ONC Staff and Alumni Association, and is active with the International Rectifier Alumni Association, leading the nomination of that company’s founder for the National Medal of Technology and Innovation.

Dan Roach III, MD continues to serve as Health Information Technology Coordinator for the State of Alabama.

David Wallace, DVM has been appointed to The Emergency Preparedness for Federally Qualified Health Centers National Working Group. The goal of this group will be to develop collaborations for training and technical assistance to address the unique needs of federally qualified community health centers (FQHCs), with a special focus on at-risk populations such as public housing residents and seniors. This national working group will share emergency preparedness resources and seek to build partnerships, linking federal interests with those at the state, local and community levels. David Wallace and Carolyn Ross were invited to support the USVI Department of Health during Operation Tide Breaker, a FEMA sponsored full-scale disaster response exercise in St. Thomas, USVI, December 12-15, 2011. The USVI version of AIMS (Alabama Incident Management System) was activated and managed during the exercise to provide real-time situational awareness and facilitate patient identification and tracking using the AIMS automated patient tracking module.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Project Year 2011-2012 represented a transitional period for the Center for Strategic Health Innovation (CSHI). Long-time director Carl Taylor was succeeded in February 2012 by Dr. Deborah Lafky, who took up the Director position after 5 years with the Office of the National Coordinator for Health IT (ONC). Since then, CSHI has solidified organizationally around the following objectives: a) program integration across all lines
of activity; b) developing a high-performance team; c) increasing research activity. To those ends, CSHI has a) initiated a staff re-organization, with operations management spanning all CSHI programs; b) honed ALREC performance and attained a top national ranking among the 62 REC programs; c) pursued publication opportunities, provided for a research component in all new proposals, and participated actively in outreach to raise public awareness of the Center’s capabilities.

NCDMR: On-going improvements that lay the foundation for the National Center for Disaster Medical Response are nearly complete. New capacity coming online includes a tripling of medical simulator capacity, added decontamination training equipment, and high-definition immersive learning technologies to advance the process of disaster preparedness and response. In addition, improvements to the student experience are under way, including a professional registration facility with added wait-time amenities, an improved classroom sound system, and expanded staff facilities to accommodate approved open staffing slots. In September 2012, a candidate for NCDMR’s open professional trainer position was identified and accepted the position with a start date in October 2012. This will increase NCDMR’s training capability by 30%.

Alabama Incident Management System (AIMS): AIMS is management information software designed to capture Hospital Incident Command System (HICS) reported surge data, or information regarding the real-time status of a hospital’s ability to triage, treat, and transfer victims of a disaster in a timely manner. Critical data such as available beds, supplies, staffing, and equipment is entered into a database at each participating healthcare facility and then transmitted and displayed at the local or regional Emergency Operations Centers (EOC) for use making emergent decisions. CSHI boasts a total of 787 user facilities including: 18 Community Health Centers, 11 EMA facilities, 319 EMS providers, 1 EMS EOC facility, 12 ADPH EOC facilities, 27 Evacuee Shelters, 124 Hospitals, 17 Medical Needs Shelters, and 258 Nursing Homes. Under contract with the Alabama Department of Public Health Center for Emergency Preparedness (ADPH CEP), CSHI continues to promote AIMS as a daily use tool for health facilities across the state, as well as to develop and promote cross border links in AIMS. Enhancements and upgrades to AIMS include development and deployment of a people tracking module to track people in medical needs shelters and evacuee shelters during a disaster thereby enhancing the situational awareness of ADPH, development of a disaster information repository (ncdmr.org) to provide important disaster related information to disaster management officials, and continued development of social networking capabilities to encourage the establishment of local response regions among health facilities in the same region. In the past year, AIMS was utilized for monthly exercises, surveillance of heat related illnesses, and management of tropical storm/hurricane Isaac. New features include chatting capability to enhance facility to facility communication, an EPI surveillance tool, programming interface to allow automatic data reporting from hospital systems, further integration with social networking tools and development of a smart phone interface for reporting data.
Training Programs: Now in its ninth year, ARRTC is regional response training designed to teach effective collaborative healthcare community response to all disasters, natural or man-made. This program is made possible by a grant from the Alabama Department of Public Health Center for Emergency Preparedness through a cooperative agreement from ASPR. This year, CSHI offered training on-site in Mobile (ARRTC Basic) and at regional hospitals and other facilities throughout the state (ARRTC Road Show). ARRTC Basic was a two-day course designed to provide regional response partners charged with disaster preparedness, response and leadership responsibilities with basic, core disaster response training. Sessions were scheduled by hospital planning region, fostering interaction with regional response partners. This year, as a subset of ARRTC Basic, two ARRTC Administrative sessions were presented for Chief and Administrator level personnel charged with disaster response leadership for their organizations. This course featured nationally recognized speakers who shared their experience and expertise on disaster response leadership. ARRTC Road Show was a one day course which took ARRTC training to healthcare facilities across the state, thereby allowing participation by more staff, and inviting the participation of regional neighbors/response partners for the purpose of establishing and enhancing a common knowledge of the basics of disaster response for healthcare facilities. This year, Road Show course content was designed by each facility from a menu of topics to reflect the specific needs of each facility/area. In addition to ARRTC Basic and Roadshow, this year a pilot project was presented as ARRTC Advanced – Disaster Preparedness-Clinical Simulation Training. Five one-day interactive training sessions were held for clinicians charged with disaster response in their organizations. Including all three types of sessions, a combined total of 53 sessions were presented to participants, which included representatives from public health, hospitals, nursing homes, community health centers (CHCs), and emergency management and response agencies. Attendee evaluation scores were consistently high, with 98% rating the program as “Excellent” or “Good.”

Medical Informatics and Healthcare Technology Applications: CSHI continually endeavors to use emerging health technologies to improve the quality, cost, care, and access to healthcare within our state and beyond. One of the keys to our success is Realtime Medical Electronic Data Exchange (RMEDE™), a secure web-based life-state management system including in-home monitoring of patients with chronic disease and an interventional informatics reporting system. CSHI currently manages 1.1 million patient records and approximately 600 Medicaid patients participated in our in-home monitoring project. In 2011-2012, CSHI continued its critical partnership with the Alabama Medicaid Patient 1st program and the Alabama Department of Public Health for the delivery of in-home monitoring of patients using RMEDE™. In this program, patients suffering from chronic illnesses such as diabetes, congestive heart failure, and hypertension are monitored for significant changes by using an innovative Interactive Voice Response (IVR) system. Patients are instructed to dial-in their key physiologic parameters, and an ADPH Life Care Nurse is assigned to monitor the results and submit reports to the patient’s provider. CSHI also continued its’ partnership with the Medicaid Maternity Program in their quest for Better Birth Outcomes and lower Infant Mortality rates. RMEDE™ is used to develop a data collection system with reporting capabilities utilizing recipient information gathered from enrollment activities to evaluate compliance
with accepted national standards of practice. RMEDE™ provides Medicaid and their contractors the ability to enter and view the data online. Data is utilized by Medicaid to determine benchmarks for compliance and comparisons.

In addition, we have continued our partnership with Alabama Medicaid to support the Patient Care Networks of Alabama (PCNA) project. PCNA is a primary care case management (PCCM) program which establishes regional networks of care or a “medical neighborhood” which is designed to improve the delivery of health care services to Medicaid recipients, especially those recipients with complex medical conditions of diabetes and asthma. RMEDE™ serves as the framework used by the PCNA for data management, patient risk stratification, patient case management, automatic agency to agency electronic referral, aggregation of Medicaid medical and pharmacy claims data, and program reporting needs. There are three active areas in the state with a fourth pilot area added this year.

CSHI continues to operate the Alabama Regional Extension Center (ALREC), which is the product of an $8.5 Million grant awarded by the Office of the National Coordinator for Health Information Technology (ONC). The mission of ALREC is to help primary care providers in small and medium-sized medical practices select, implement, and become meaningful users of certified electronic health record systems. CSHI is now half way through the project and has emerged as one of the top 3 regional extension centers in the nation. We have already achieved our goal of enrolling 1304 providers, and have exceeded the expectations of ONC by helping 1212 “go live” on a certified electronic health record system and helping 420 providers reach meaningful use. Because of these successes, ALREC is one of only three RECs selected to be highlighted by means of a professionally produced educational video to be shown at the American Medical Informatics Association meeting in November 2012.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Haynes J. Invited speaker. Pathophysiology and medical manifestations of sickle cell disease. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.

Haynes J. Invited speaker. Transition from pediatric to adult care. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.

Haynes J. Invited speaker. Sickle cell disease and air travel. Sickle Cell Disease Practical Issues XII: Casting the Net II Annual Sickle Cell Regional Conference; 2012 Sep 8; Mobile, AL.

Imran H. Invited speaker. Management of SCD. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.

Siddiqui A. Invited speaker. Basic genetics and hematology. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2012 Apr 25; Mobile, AL.

Wilson F. Invited speaker. Newborn screening in sickle cell disease. Sickle Cell Disease Practical Issues XII: Casting the Net II Annual Sickle Cell Regional Conference; 2012 Sep 7; Mobile, AL.

Wilson F. Invited speaker. Iron overload. Sickle Cell Day. The Sickle Cell Center at East Carolina University; 2012 Sep 21; Greenville, NC.

Wilson F. Invited speaker. Be sickle smart-take control of your future: living with sickle cell disease. Children’s Healthcare of Atlanta; 2012 May 24; Atlanta, GA.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: America’s Top Doctors and Best Doctors in America. Member, NIH Sickle Cell Advisory Committee; Member, Chapter Review on NIH Guidelines for Hydroxyurea Use in Adults; Member, CHEST Foundation National Inner-City Asthma Initiative Outreach Program; Fellow, American College of Physicians; Fellow, American College of Chest Physicians; Observational Study Monitoring Board, Chair.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

General Operations: Dr. Johnson Haynes, Jr. continues as Director of the USA Comprehensive Sickle Cell Center. Despite state funding cuts, the USA Comprehensive Sickle Cell Center continues to improve the delivery of clinical and educational services to individuals affected with sickle cell disease, family members of affected individuals, and health care providers.

Research: The Center is involved in 3 ongoing pharmaceutical sponsored research trials, “A Phase III, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study of L-Glutamine Therapy for Sickle Cell Anemia and Sickle B0 – Thalassemia,” A study of the “Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease Following Chronic, Intermittent Red Blood Cell Transfusions” and a new research study, “A Randomized, Placebo-controlled, Phase 2 Study of HQK-1001 in Sickle Cell Disease.” In addition, Dr. Johnson Haynes is working with fellows in the Pulmonary Division and Dr. Karen Fagan on pilot studies investigating airflow obstruction in adults with sickle cell disease while having recently completing a study on the assessment of pulmonary hypertension in patients with sickle cell disease. Dr. Hamayun Imran is collaborating investigator and local PI for the TWITCH study at the University of South Alabama. This NIH sponsored study is led by St. Jude Children's Research Hospital. It is a national clinical trial for children with sickle cell disease on chronic transfusion therapy for critical TCD velocity. This is a 3-year project. Dr. Felicia Wilson has recently completed a Sickle Cell Center Grant from the Alabama Department of Public Health (ADPH), (10/1/11 to 12/31/11), and nears completion of a Newborn Screening grant also sponsored by the ADPH (10/1/11 to 9/30/12).
She is an investigator in the Multicenter Study of Iron Overload: Examining Mechanisms of Iron Trafficking and Extra-hepatic Iron Distribution in Sickle Cell Disease, Thalassemia, and other Iron Loading Anemias sponsored by the NIH/NIDDK.

Clinical Operations: The 2011-2012 academic year marks the close of the 13th year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. This clinic now serves over 215 clients. The primary objectives of this clinic are (1) to serve as a positive educational experience for primary care residents in the Departments of Medicine and Family Medicine at the University of South Alabama; and (2) to be a resource for practicing physicians in the University and private community. The clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; Ms. Brittany Brown, R.N.; and Ms. Adrienne Petite, Case Manager. Both Internal Medicine and Family Medicine residents rotate on a monthly basis through the outpatient Adult Sickle Cell Clinic. The Adult Sickle Cell Clinic continues to serve the greater Mobile area in addition to a continuous influx of patients from surrounding areas.

Ms. Pack-Mabien and Ms. Brown continue to support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services. A major addition to pediatric services this year was the formalization of the Pediatric to Adult Care Transition Program (PACT) with Brittany Brown as coordinator. Drs. Hamayun Imran, Felicia Wilson, and Hafeez Siddiqui are physicians caring for patients in the Pediatric Sickle Cell Outpatient Clinic.

An adult hematologist and urologist to support the adult operations are lacking and there is no proposed solution to this deficit of overall clinical operations in sight.

Education: The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community and continues to support the Counselor/Educator Certification Program, which takes place at the Sickle Cell Disease Association of America, Mobile Chapter. The USA Comprehensive Sickle Cell Center has sponsored a clinical based conference on practical issues involving sickle hemoglobinopathies for the last 12 years. Our 12th conference entitled, “Practical Issues XII: Casting the Net II,” was held on Friday, September 7 and Saturday, September 8, 2012. This conference brings health care professionals together, in an interactive forum, to address relevant issues surrounding sickle cell disease. Our target audience is Internal Medicine, Family Practice, Pediatrics and other physicians, pharmacists, physician assistants, nurse practitioners, nurses, case managers and other allied health professionals.

The 2012 conference, “Practical Issues in Sickle Cell Disease XII: Casting the Net II,” featured Dr. Robert J. Adams for the Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Endowed Lectureship. Dr. Adams topic was “Primary Stroke Prevention Works: The Falling Rates of Childhood Stroke in SCD.” Dr. Thomas Butler, Associate Professor, Mitchell Cancer Institute, spoke on “Platelet Disorder in Sickle Cell Disease,” Dr. Susan Baker, Associate Professor, OB/GYN, spoke on “Pregnancy in Sickle Cell Disease,” Dr. Felicia Wilson, Professor of Pediatric Medicine, addressed “Newborn Screening in Sickle Cell Disease,” and Dr. Elise Labbe-Coldsmith, Professor, Department
of Psychology, discussed “Psychosocial Issues in Sickle Cell Disease.” Interesting and unique sickle cell disease cases were presented by Drs. Michelle Grier-Hall, Zakiya Douglas, and Sheryl Falkos. Dr. Alan Sanders addressed “Ethics in Pain Management, Fears, Realities and Needs,” and Dr Juvonda Hodge, Assistant Professor, Department of Surgery, presented “Cholecystectomy Indication and Special Considerations in Sickle Cell Disease.” Dr. Anthony Martino, Associate Professor and Chair for Neurosurgery, spoke on “Moya Moya / Encephaloduroarteriosynangiosis (EDAS) Intervention” and lastly Dr. Johnson Haynes, Jr., Professor and Director of the USA Sickle Cell Center, spoke on “Sickle Cell Disease and Air Travel.” The nursing staff continues to provide a series of lectures to the nursing community within the University of South Alabama and private hospitals in the Mobile community and surrounding counties. As we go forward, we plan to continue the clinical operations with the same drive and integrity as we have in current years. We will continue to seek the grant support necessary to continue all clinical and research activities as well as continue requesting the necessary financial support currently made available by the University of South Alabama College of Medicine.

Other Activities: Drs. Haynes and Wilson continue to serve as Alabama Sickle Cell Oversight Regulatory Commissioners where Dr. Wilson is president of the Commission. The Center’s newsletter, “Sickle Cell Today” is distributed across the State of Alabama to clients, client’s families, administrators, community sickle cell foundations, physicians and legislators in April and September of each year. As of August 1, 2011, Dr. Haynes was appointed Assistant Dean for Diversity and Cultural Competency in the USA College of Medicine, and Dr. Wilson was recently honored as a “Distinguished Faculty Member” by the Class of 2012.
The College of Medicine has a total of 2,262 alumni physicians representing thirty-six graduate classes (1976-2012). The Medical Alumni office has one full-time secretary, Cynthia Harris and a part-time assistant director, Melodie Robinson. The primary responsibility of the office is to maintain communication with graduate members and to organize events that accomplish the mission of advancing both alumni and student members.

Executive Board of Directors (Medical Alumni Association):

In June 2012, Dr. Amy Morris ’93 completed her two-year term as President of the Medical Alumni Association. Dr. Jill F. Ringhold assumed the position and will serve until June 2014. Dr. Kit Outlaw ’92 is vice-president. The following alumni physicians are members of the Board of Directors: Dr. Oscar Almeida ’85, Dr. William Blaylock ’89, Dr. Cynthia Donnell (who moved off the board in June), Dr. Lamar Duffy ’84, Dr. Diana Hashimi ’90, Dr. Johnson Haynes ’80, Dr. Russell Hudgens ’87, Dr. Wanda Kirkpatrick ’78, Dr. Thomas Montgomery ’81, Dr. Christopher Semple ’85, Dr. John Todd ’88, and Dr. Stacey Wing ’96 (who also moved off the board in June). Two new members were elected starting June 2012: Dr. Maryella Sirmon ’78 and Dr. Grace Hundley ’04.

The Medical Alumni Association has one primary program responsible for funding activities for current and future members – the Annual Membership Dues and Annual Fund Program. The categories for membership include $100 per year for graduate physicians, $50 for physicians in training and $1,000 for a Lifetime Membership. Including lifetime members and AF donors, (the average gift was $100), 642 alumni contributed a total of $70,205. Nine physicians became lifetime members in 2011.

The major alumni event sponsored by the MAA is the Medical Alumni Weekend, which was held on June 1-3, 2012 at the Perdido Beach Resort in Orange Beach Alabama. Seven classes (1977, 1982, 1987, 1992, 1997, 2002, and 2007) were celebrating reunion dates. The weekend include CME programs: Dr. David Lewis, “Patient Quality and Safety Using Protocols;” Dr. Frederick Meyer, “Volume to Value;” Dr. Christopher Semple, ’85, “Everything the Non-Ophthalmologist Needs to Know;” Dr. Michael Goodlett, ’82, “Sports Concussions;” Dr. William Broughton, ’82 “The Prion Story – A Front Row Seat;” and Dr. Robert Kreisberg, “The Art and Science of Cholesterol Lowering Therapy.” The MAA honored Dr. Frederick Meyer with their annual Distinguished Service Award for his commitment and service to the College of Medicine.

Scholarship development and recognition of academic achievement continues to be a focus for the Medical Alumni Association. In 2011-2012, the recipient of the Alumni Scholar Award for $25,000 was Jordon Fernandez. Other awards and scholarships sponsored by the Medical Alumni Endowment include the Clyde “Sid” Huggins Family Practice Award, the Lester Sockwell and the Christian Grinaker Memorial Scholarships. The Association also sponsored
one Legacy Scholarship. The Medical Alumni Leadership Award, in recognition of outstanding leadership by vote of her class was Kacie Jackson Saulters. In addition to these awards, the Association donated $50,000 to the Medical Alumni Endowment Fund, which was matched by the Dean of the College of Medicine.

Another significant endeavor for 2012 was the establishment of the Class of 1981 Scholarship Project. Chaired by Dr. Ed Panacek and the following committee members: Drs. Tom Montgomery, Vera Bittner, and Robert Chagrulis. A six-month fund-raising effort concluded on October 1, 2012 with class donations of real gifts and pledges totaling over $215,000, which will be deposited to the Medical Alumni Endowment Fund, with matching funds from the College of Medicine. The fund interest generated will be used to support recruitment of outstanding students.

Other activities organized by the Medical Alumni Office include the White Coat Ceremony and the Senior Class Reception. We also assisted with “Conversations with the Dean” a program inviting selected alumni to speak to students regarding their specialties and contemporary issues related to the practice of medicine. The MAA donated to various student organizations and events including the Winter Asclepian Ball, Skit Night, Review of Systems, and the annual Gumbo/Chili Cook-off for scholarship development. The Medical Alumni Office provides database support for Alpha Omega Alpha Honor Medical Society and assists with their dues program. AΩA sponsored a Visiting Professorship (Dr. Molly Cooke, UCSF) and one $4,000 student academic scholarship. Dr. T.J. Hundley ’04, Assistant Professor in the Department of Internal Medicine, is the Alabama AΩA Beta Chapter Councilor.
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Total: 2264
*This total includes one posthumously awarded degree
2011-2012
DIVISION OF MEDICAL EDUCATION AND STUDENT AFFAIRS

The Division of Medical Education and Student Affairs is responsible for all undergraduate education programs in the College of Medicine. Reorganization of the structure of this office occurred over the past year. Three new Assistant Deans were appointed in the Division of Medical Education. The responsibilities of these new administrators focus on Educational Strategies and Faculty Development, Curriculum Assessment and Evaluations, and Curriculum Integration.

Activities in the Division of Medical Education and Student Affairs are accomplished through offices in the Medical Sciences Building and Mastin Building.

Student Affairs

The Medical Association of the State of Alabama once again sponsored Match Day festivities, which were held at the Renaissance Riverview Plaza Hotel in downtown Mobile on March 16. The Match results were impressive and included Cardiothoracic Surgery at University of Southern California Medical Center in Los Angeles, Orthopaedic Surgery at the Cleveland Clinic, Orthopaedic Surgery at Emory, and Dermatology at the University of Wisconsin. Two students will be going to Vanderbilt, one in Emergency Medicine and one in Pediatrics. Five of the students matched at the Greenville Hospital System of the University of South Carolina and other schools within the southeast. Fifteen students matched here at USA.

Honors Convocation for the College of Medicine was held Friday evening, May 11, 2012, in the Mitchell Center on the USA campus. Dr. Charles B. Rodning, Professor in the Department of Surgery, was selected as the faculty speaker by the Class of 2012 and Stephen Marbut was selected to be the class speaker. Awards for academic achievement and community service were announced and the Hippocratic Oath was administered. Graduation was held at 2 p.m. on May 12, 2012.

Freshman orientation in August 2012 was extended to include additional sessions, which focused on issues that will allow students to be successful in the integrated curriculum. The Professionalism session was modified into an active learning exercise to take advantage of the new active learning center. Based on the data from the post-orientation questionnaire, students were very satisfied with orientation.
The number of visiting medical students who participated in Senior elective courses at USACOM in 2011-2012 is outlined below:

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Disciplines in which Electives were taken:

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Letters of evaluation (Dean’s Letters) were written for each of the 78 seniors, who graduated in May, 2012. Students applied to 2744 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Seventy-two (72) of the seventy-eight (78) students matched for residency positions. Seventy-four (74) of the May graduates used the NRMP as their primary means of obtaining residency and four (4) graduates used the Military Match. Five (5) students secured a residency training position in the “scramble” that followed the match.
| University of South Alabama Seniors  
| Residencies Received by Discipline |
|-----------------------------------|-----------------------------------|
| Class of 2008 | Class of 2009 | Class of 2010 | Class of 2011 | Class of 2012 |
| PRIMARY CARE: | | | | |
| 26 | 40% | 30 | 48% | 28 | 42% | 29 | 41% | 32 | 42% |
| Internal Medicine | 12 | 18% | 15 | 24% | 15 | 23% | 20 | 29% | 14 | 18% |
| Family Medicine | 8 | 12% | 2 | 3% | 1 | 1% | 6 | 9% | 9 | 12% |
| Pediatrics | 4 | 6% | 10 | 16% | 8 | 12% | 0 | 0 | 6 | 8% |
| Med/Peds | 2 | 3% | 3 | 5% | 4 | 6% | 3 | 4% | 3 | 4% |
| Anesthesiology | 3 | 1 | 3 | 1 | 4 | 3 | |
| Child Neurology | 0 | 0 | 1 | 0 | 0 | 0 | |
| Dermatology | 1 | 0 | 0 | 1 | 0 | 0 | |
| Emergency Medicine | 4 | 3 | 1 | 5 | 6 | |
| Int. Med./Dermatology | 0 | 0 | 0 | 0 | 1 | |
| Neurology | 4 | 3 | 3 | 3 | 3 | |
| Neurological Surgery | 0 | 1 | 0 | 0 | 0 | |
| OB/Gyn | 6 | 5 | 4 | 5 | 7 | |
| Ophthalmology | 0 | 0 | 1 | 0 | 0 | |
| Orthopedics | 4 | 4 | 3 | 7 | 4 | |
| Otolaryngology (ENT) | 0 | 0 | 0 | 0 | 0 | |
| Pathology | 2 | 3 | 5 | 0 | 3 | |
| Physical Medicine & Rehabilitation | 2 | 1 | 0 | 1 | 0 | |
| Psychiatry | 1 | 0 | 3 | 4 | 4 | |
| Psychiatry/Neurology | 0 | 0 | 0 | 0 | 0 | |
| Radiology | 4 | 6 | 6 | 3 | 6 | |
| Surgery – General | 5 | 4 | 4 | 6 | 6 | |
| Surgery – Preliminary | 0 | 0 | 4 | 0 | 0 | |
| Surgery – Thoracic | 0 | 0 | 0 | 0 | 1 | |
| Transitional | 2 | 2 | 0 | 2 | 7 | |
| Urology | 1 | 0 | 0 | 0 | 0 |
University of South Alabama Seniors
Residencies Received by State

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<tr>
<td>2011</td>
<td>28</td>
<td>40%</td>
<td>16</td>
<td>42</td>
</tr>
<tr>
<td>2012</td>
<td>24</td>
<td>31%</td>
<td>15</td>
<td>53</td>
</tr>
</tbody>
</table>

Seventy-eight seniors received the Doctor of Medicine degree at Commencement on May 12, 2012. On the evening of May 11, the College held its thirty-seventh Honors Convocation, which took place in the Mitchell Center. Dr. Charles Rodning addressed the class and Stephen M. Marbut responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award – Travis Hunt Harris
Merck Award – Richard William Gurich, Jr. and Phillip Dale Bates, Jr.
Leonard Tow Humanism in Medicine Award – Dianna Marie Thomas and T. J. Hundley, M.D.
Medical Alumni Leadership Award – Kacie Jackson Saulters
Medical Assurance Award – Charles Caleb Butts
Community Service Award – Cody Hunter Penrod and Britni Marie Bardshaw
SNMA Leadership Award – Antwan Jerrod Hogue
Outstanding Student in the Anatomical Sciences – Travis Hunt Harris
Charles M. Baugh Award in Biochemistry – Travis Hunt Harris
William A. Gardner, Jr. Pathology Award – Travis Hunt Harris
Charles W. Urschel Achievement Award in Physiology – Travis Hunt Harris
Pharmacology Achievement Award – William Maurin Perez
Microbiology and Immunology Achievement Award – Travis Hunt Harris
Neuroscience Achievement Award – James Gibson Pennington
Hollis J. Wiseman Award for Excellence in Pediatrics – Thomas Cooper Wilson
Samuel Eichold Award – Ryan Smith Weldon
Lewis Anderson Medical Student Achievement Award – Margaret Elizabeth Saverino
John W. Donald Memorial Award in Surgery – Richard William Gurich, Jr.; Erin Michele Thompson; and Thomas Cooper Wilson
H. C. Mullins, M.D. Award – Ashleigh DeAnna Butts-Wilkerson
Obstetrics/Gynecology Award – William Ray Stroud III
Excellence in Emergency Medicine Award – Hannah Marie Eason and Jay Drennen Crim
American Academy of Neurology (AAN) Award – Drew Ryan Uhrig
# Grade Distribution 2011 - 2012 Academic Year

## Freshman Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
<td>44</td>
<td>27</td>
<td>3</td>
<td></td>
<td></td>
<td>3.55</td>
</tr>
<tr>
<td>Developmental Anatomy</td>
<td>29</td>
<td>35</td>
<td>7</td>
<td>2</td>
<td>1</td>
<td>3.20</td>
</tr>
<tr>
<td>Fundamentals of Doctoring I</td>
<td>146</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td>3.99</td>
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<tr>
<td>Gross Anatomy</td>
<td>21</td>
<td>37</td>
<td>10</td>
<td>4</td>
<td>2</td>
<td>2.96</td>
</tr>
<tr>
<td>Histology</td>
<td>21</td>
<td>37</td>
<td>11</td>
<td>5</td>
<td></td>
<td>3.00</td>
</tr>
<tr>
<td>Intro to Clinical Medicine I</td>
<td>57</td>
<td>17</td>
<td></td>
<td></td>
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<td>3.77</td>
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<tr>
<td>Public Health</td>
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<td>5</td>
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<td></td>
<td></td>
<td>3.93</td>
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<tr>
<td>Physiology</td>
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<td>41</td>
<td>13</td>
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</table>

Average GPA: 3.44

## Sophomore Courses

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<th>Course</th>
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<th>F</th>
<th>GPA</th>
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<tbody>
<tr>
<td>Fundamentals of Doctoring II</td>
<td>108</td>
<td>29</td>
<td>5</td>
<td>2</td>
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<td>3.69</td>
</tr>
<tr>
<td>Intro. To Clinical Med. II</td>
<td>63</td>
<td>8</td>
<td></td>
<td></td>
<td></td>
<td>3.89</td>
</tr>
<tr>
<td>Microbiology</td>
<td>26</td>
<td>34</td>
<td>8</td>
<td>4</td>
<td>1</td>
<td>3.10</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>39</td>
<td>21</td>
<td>7</td>
<td>4</td>
<td></td>
<td>3.34</td>
</tr>
<tr>
<td>Pathology</td>
<td>53</td>
<td>19</td>
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<td>1</td>
<td></td>
<td>3.70</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>46</td>
<td>22</td>
<td>3</td>
<td></td>
<td></td>
<td>3.61</td>
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</tbody>
</table>

Integrated Case Study: 36 students received Honors/35 students Passed

Average GPA: 3.55

## Junior Clerkships

<table>
<thead>
<tr>
<th>Course</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>73</td>
<td>3</td>
<td></td>
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<td>Internal Medicine</td>
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<td>44</td>
<td></td>
<td></td>
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<td>3.42</td>
</tr>
<tr>
<td>Neurology</td>
<td>66</td>
<td>9</td>
<td></td>
<td></td>
<td></td>
<td>3.88</td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
<td>42</td>
<td>34</td>
<td></td>
<td></td>
<td></td>
<td>3.55</td>
</tr>
<tr>
<td>Pediatrics</td>
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<td>34</td>
<td>3</td>
<td></td>
<td></td>
<td>3.37</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>43</td>
<td>29</td>
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<td></td>
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<td>3.60</td>
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<tr>
<td>General Surgery</td>
<td>52</td>
<td>23</td>
<td></td>
<td></td>
<td></td>
<td>3.69</td>
</tr>
</tbody>
</table>

Average GPA: 3.64
### Academic Progress of Medical Students

**Source:** Part II of LCME Annual Medical School Questionnaire

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Initial Students in Class</strong></td>
<td>67</td>
<td>70</td>
<td>75</td>
<td>76</td>
<td>74</td>
</tr>
<tr>
<td><strong>Graduates</strong></td>
<td>65</td>
<td>63</td>
<td>66</td>
<td>69</td>
<td>78</td>
</tr>
<tr>
<td><strong>True Attrition</strong></td>
<td>2</td>
<td>3</td>
<td>7</td>
<td>*</td>
<td>0</td>
</tr>
<tr>
<td>(will not receive M.D. in any year)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2007-08</th>
<th>2008-09</th>
<th>2009-10</th>
<th>2010-11</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dismissed</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Sophomores</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Juniors</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Seniors</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Placed on Leaves of Absence (LOA)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Sophomores</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>7</td>
<td>9</td>
<td>9</td>
<td>6</td>
<td>11</td>
</tr>
<tr>
<td><strong>Transferred to Another Medical School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Withdrew</strong></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td><strong>Admitted with Advanced Standing or Re-entered from Graduate School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td><strong>Deceased</strong></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Repeated All or Part of the Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>3</td>
<td>2</td>
<td>8</td>
<td>11</td>
</tr>
<tr>
<td><strong>Enrolled on a Decelerated Schedule</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Minority Students (Black, Native American, Hispanic)</th>
<th>2007-08</th>
<th>2008-09</th>
<th>2009-10</th>
<th>2010-11</th>
<th>2011-12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>26</td>
<td>24</td>
<td>24</td>
<td>21</td>
<td>18</td>
</tr>
<tr>
<td>Freshmen</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>All Other Classes</td>
<td>20</td>
<td>18</td>
<td>21</td>
<td>14</td>
<td>14</td>
</tr>
</tbody>
</table>
### United States Medical Licensure Examination (USMLE) Step 1

**First Time Takers**

<table>
<thead>
<tr>
<th></th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Students</strong></td>
<td>69</td>
<td>67</td>
<td>72</td>
<td>72</td>
<td>75</td>
</tr>
<tr>
<td><strong>National Overall Mean</strong></td>
<td>222</td>
<td>221</td>
<td>221</td>
<td>222</td>
<td>224</td>
</tr>
<tr>
<td><strong>USACOM Overall Mean</strong></td>
<td>221</td>
<td>215</td>
<td>219</td>
<td>220</td>
<td>218</td>
</tr>
<tr>
<td><strong>Failure Rate – National</strong></td>
<td>6%</td>
<td>7%</td>
<td>7%</td>
<td>9%</td>
<td>6%</td>
</tr>
<tr>
<td><strong>Failures at USA</strong></td>
<td>3%</td>
<td>7%</td>
<td>8%</td>
<td>4%</td>
<td>8%</td>
</tr>
</tbody>
</table>


### United States Medical Licensure Exam (USMLE) Step 2

**First Time Takers**

<table>
<thead>
<tr>
<th></th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Students</strong></td>
<td>65</td>
<td>63</td>
<td>66</td>
<td>71</td>
<td>77</td>
</tr>
<tr>
<td><strong>National Overall Mean</strong></td>
<td>226</td>
<td>229</td>
<td>230</td>
<td>233</td>
<td>237</td>
</tr>
<tr>
<td><strong>USACOM Overall Mean</strong></td>
<td>216</td>
<td>227</td>
<td>225</td>
<td>236</td>
<td>234</td>
</tr>
<tr>
<td><strong>Failure Rate – National</strong></td>
<td>4%</td>
<td>4%</td>
<td>3%</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Failures at USA</strong></td>
<td>9%</td>
<td>3%</td>
<td>0</td>
<td>3%</td>
<td>1%</td>
</tr>
</tbody>
</table>

Minimum passing score = 170 for Class of 1997-2000; 174 beginning with the Class of 2001; 182 beginning with the Class of 2004; 184 beginning with the Class of 2008; 189 beginning with the Class of 2011

### United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th></th>
<th>Class of 2005</th>
<th>Class of 2006</th>
<th>Class of 2007</th>
<th>Class of 2008</th>
<th>Class of 2009</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Percentage Passing</strong></td>
<td>96</td>
<td>96</td>
<td>95</td>
<td>95</td>
<td>96</td>
</tr>
<tr>
<td><strong>USA Percentage Passing</strong></td>
<td>96</td>
<td>92</td>
<td>95</td>
<td>95</td>
<td>98</td>
</tr>
<tr>
<td><strong>USA Number of Students</strong></td>
<td>56 (a)</td>
<td>50 (b)</td>
<td>63 (c)</td>
<td>65 (d)</td>
<td>59 (e)</td>
</tr>
</tbody>
</table>

(a) 56/59 students had taken Step 3 as of 6/10
(b) 60/60 students had taken Step 3 as of 6/11
(c) 63/63 students had taken Step 3 as of 12/11
(d) 65/65 students had taken Step 3 as of 12/11
(e) 59/63 students had taken Step 3 as of 12/11
Evaluation of Student Performance in the First Postgraduate Year*

The questionnaire adopted by the Curriculum Committee in 1990-91 for assessment of graduates of the College of Medicine was sent to the Directors of the PGY-1 programs of our 2011 graduates. A total of 54 responses were received out of 69 requests. Below is a summary of the responses to the four major areas that were assessed.

<table>
<thead>
<tr>
<th></th>
<th>Class of 2008</th>
<th>Class of 2009</th>
<th>Class of 2010</th>
<th>Class of 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Knowledge</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Top Fifth</td>
<td>21%</td>
<td>30%</td>
<td>16%</td>
<td>31%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>39%</td>
<td>46%</td>
<td>40%</td>
<td>43%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>27%</td>
<td>22%</td>
<td>31%</td>
<td>20%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>11%</td>
<td>1%</td>
<td>11%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
<td>4%</td>
</tr>
<tr>
<td>Data Collection</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>22%</td>
<td>27%</td>
<td>22%</td>
<td>30%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>42%</td>
<td>49%</td>
<td>36%</td>
<td>44%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>32%</td>
<td>24%</td>
<td>34%</td>
<td>18%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>4%</td>
<td>0%</td>
<td>6%</td>
<td>6%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
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<td>2%</td>
</tr>
<tr>
<td>Clinical Judgment and Skills</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>27%</td>
<td>24%</td>
<td>17%</td>
<td>31%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>38%</td>
<td>55%</td>
<td>40%</td>
<td>43%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>28%</td>
<td>20%</td>
<td>37%</td>
<td>22%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>7%</td>
<td>0%</td>
<td>4%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
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<td>2%</td>
</tr>
<tr>
<td>Professional Attitudes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>36%</td>
<td>51%</td>
<td>37%</td>
<td>58%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>41%</td>
<td>31%</td>
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<tr>
<td>Middle Fifth</td>
<td>20%</td>
<td>17%</td>
<td>27%</td>
<td>8%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>3%</td>
<td>0%</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>1%</td>
<td>2%</td>
<td>2%</td>
</tr>
</tbody>
</table>

*Evaluated by Residency Program Director and/or Faculty
CURRICULUM COMMITTEE

In 2011, the College of Medicine at the University of South Alabama revised the educational program by developing a new competency based curriculum across the four years. The first two years of medical school were redesigned from discipline-specific courses to an integrated organ systems-based curriculum with enhanced integration for the third and fourth years. The goal of the new curriculum is to provide medical students with a fully integrated educational experience by utilizing the core competencies established by the Accreditation Council for Graduate Medical Education as a platform. These competencies are medical knowledge, patient care, practice-based learning and improvement, interpersonal and communication skills, professionalism, and systems-based practice. While allowing students to acquire a comprehensive and clinically relevant medical education, the new competency based curriculum also will facilitate the educational continuum and aid in graduate’s transition into their residencies. The revision of the educational format occurred under the leadership team in the Division of Medical Education, the Curriculum Committee and with the enthusiastic support of both basic science and clinical faculty in the College of Medicine.

Students will begin the new curriculum with the Foundations of Human Health module, which introduces principles of basic and clinical sciences, and sets the foundation for medical practice. It provides students with tools to effectively master application-based material in the subsequent system based modules. Learners identify key principles of human health and disease in both the internal biologic milieu and external environment. Basic mechanisms of human biology, psychology and social systems are developed, as all are essential to clinical reasoning, problem solving, patient-centered care and system-based practice. Throughout this and subsequent modules, students will engage in lectures, active learning sessions (primarily team- and case-based), independent study and clinical experiences. Learners are introduced to reflective writing exercises. These activities will provide students with opportunities to strengthen communication skills, observe and participate in systems-based practice, and exercise practice-based learning techniques in a variety of settings that require and foster professional behavior and personal integrity.

Placement of Hematology and Host Defense ahead of the remaining modules is based on content relevance of the hematologic and immune systems to normal function and disease processes affecting all other organ systems. The module focuses on normal development, structure and function of the hematologic and immune systems, how they interface with infectious agents, and the etiology of related disorders, e.g. anemias, cancer, immunodeficiency, allergy, autoimmunity and infection. Upon conclusion of the module, students will understand the cellular and molecular mechanisms underlying clinical disorders explored in subsequent organ system modules and be able to apply their knowledge to appropriate patient care through proper diagnosis, treatment, management and prevention of these diseases.

The Cardiovascular System module is designed to provide students with an in-depth multidisciplinary survey of the system in health and disease. Each week is topically focused and framed by an introduction and discussion of relevant clinical vignettes. Development and aging in the cardiovascular system, cardiac function and rhythmicity, regulation of blood pressure, vascular function and dysfunction, risk factors for and epidemiology of cardiovascular disease, basics of clinical treatment strategies, and disparities in access to health care will be discussed.
Students will gain experience in taking and interpreting a patient history, as well as basic clinical skills relevant to assessment of cardiovascular function.

The **Respiratory System** module introduces students to the anatomy, physiology, and pathophysiology of the respiratory system with a particular focus on the lung’s central role in gas-exchange and fluid balance. Normal and abnormal anatomy from the sinuses, nasopharynx, and upper airways to the lower respiratory tract, including the structures of the chest wall and thoracic cavity, will be presented through the combined use of pro-sections and radiologic imaging. The mechanics of breathing as well as the impact of diseases of the airway, interstitium, and pulmonary circulation on respiratory function, will be taught using lecture, patient-oriented active learning, clinical skills labs, and independent learning. Students will be taught the cellular and molecular mechanisms involved in a broad category of lung diseases including obstructive disease, restrictive disease, pulmonary vascular disease, lung cancer, and infections of the upper and lower respiratory tract. How these disease processes interact to alter gas-exchange leading to hypoxemia, hypercarbia, and respiratory failure will be an integral part of this course. Students will also gain experience in the proper diagnosis, treatment, and prevention of these respiratory diseases. The social impact of chronic respiratory disease on patients and their families, particularly for those with advanced disease, will also be highlighted during interactions with actual patients and in active learning sessions within small groups.

The **Renal System** module concludes year 1 and covers the kidneys and the urogenital system, including ureters, urinary bladder and prostate. Instruction begins with the normal development and structure, moves into the normal physiology of the kidney, introduces the action of pharmacological agents relevant to renal function, and concludes with introduction of pathological processes of infectious, oncological, and immune injury. Throughout the module, students are engaged in learning activities that challenge them to explore further the mechanisms of disease, the application of basic principles of organ structure and function to disease states, and approaches to problem-solving in the consideration of ethical and medical issues confronting patients with kidney disease. Students will be schooled in the evaluation of renal diseases through direct patient evaluation as well as the radiological and laboratory evaluation of kidney and urogenital structure and function. Through both directed and independent learning venues, students will have the opportunity to foster life-long learning skills, develop effective communications skills, and practice the cooperative skills needed to address the complex modes of effective delivery of medical care expected in the future. In sum, students will be given a foundation of basic medical knowledge spanning cellular to organ levels and the means to apply their knowledge of function and pathophysiology to the care of patients with urogenital disease.

Beginning Year 2, **Gastrointestinal System and Nutrition** focuses on the mastery of clinical and scientific principles involving the normal anatomic and physiologic functions of the mouth, esophagus, stomach, small and large intestine, along with the role of the pancreas and hepatobiliary tree. Secretory, motility, and absorptive functions throughout the upper and lower GI tract are a major focus of study. Students will also develop an understanding of nutritional and metabolic disorders as secondary complications of gastrointestinal and/or hepatobiliary disorders. Integration is achieved across all major medical basic science disciplines, as studies proceed throughout different portions of the digestive system at all levels, from molecular to cellular, to tissue, organ and organ system. Throughout the module, mechanisms of normal function involving metabolism, nutrition and the normal microflora are studied in contrast with abnormal or disease states, in order
to develop the foundation for understanding pathophysiologic mechanisms. Teaching methods include large group/lecture, small group, case based, learning activities, laboratories, computer simulations, self-study and experiences that foster the development of clinical skills and professional attitudes involving contact with patients in the clinic and hospital, and with simulated patients.

**Reproduction and Endocrinology** will enable students to acquire and apply knowledge of human development, internal homeostasis and reproduction from the human genome to clinical situations. Learners will develop an understanding of the embryological, physiological, and anatomical development of the reproductive tract, and how to evaluate the clinical presentation, prevention and treatment of male and female reproductive disorders, sexually transmitted infections, and breast diseases. Students will participate in active learning exercises focused on human sexuality. They will also develop their clinical examination skills, working with instructors who are trained in teaching female pelvic and breast exam and male genital examinations. Additionally, students will apply knowledge of endocrinology to discuss the role of hormones in development, growth, and metabolism.

**Musculoskeletal System and Skin** will cultivate the student’s ability to describe and diagnose conditions of the skin and the musculoskeletal systems. Students will learn how to apply their emerging knowledge of normal and abnormal, structure & function of these tissues and systems in order to recognize, and ultimately treat, conditions associated with injury and/or illness. The modules will begin with an introduction to dermatology by using a series of illustrative cases that portray the role of skin in normal physiology, development and aging, and disease. Through interaction with integrated, clinically relevant content in areas of head and neck and extremities anatomy, students will study the structures of the musculoskeletal system, in both the normal and diseased states.

**Neuroscience and Behavior** is designed to provide students with the knowledge and skills to understand and evaluate normal function, disease processes, injuries and psychiatric disorders of the human nervous system. Prior knowledge of other organ systems gained in previous modules enhances the conceptual understanding of clinical examinations skills used to measure neural function. The first 10 weeks focuses on the anatomy, biology and function of the central and peripheral nervous systems as students learn the diagnostic methods and criteria, pathophysiology and treatments of prevalent and prototypical neurologic injuries and disorders. Training shifts in the final two weeks to behavioral science as students learn about the classification, clinical presentation, psychopathology and treatment of prevalent psychiatric conditions. Upon completion of the module, students will have a fundamental understanding of the structure and function of the human nervous system, the clinical presentations, physical findings or laboratory findings of common neurologic and psychiatric disorders, and treatments for these conditions. Students will learn to take an accurate neurologic history, conduct the essential elements of the neurologic exam, perform a psychiatric assessment, and develop interpersonal skills and professional attitudes expected in the practice of neurology and psychiatry.
The final module, **Integrated Case Studies**, was originally developed as a USMLE Step 1 review course and requires students to raise their level of clinical reasoning and problem solving skill to consider multiple dimensions of illness or injury, in preparation for their transition to the practical world of clerkships. Students will consolidate basic skills in recognizing and describing clinical findings and develop skills in interpreting and communicating more complex clinical situations.
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The officers for 2011-2012 were President – William Kilgo, Vice President – Benjamin Shepherd, and Secretary/Treasurer – Amanda Schnee. The Faculty Advisors were Dr. T. J. Hundley and Dr. Anthony Gard.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) On May 2, 2011, there was a special student assembly meeting called with Dr. Gard and Dr. Hundley to discuss the upcoming new curriculum changes. The Committee was made aware of the changes being made for Fall 2012 in detail by the Curriculum Committee with regular updates from Dr. Gard and Dr. Hundley.

2) The Student Assembly explored the idea of having the USACOM Residency Fair in the Spring annually rather than in the fall. Lack of response forced the issue to be tabled for next year. The Residency Fair was taken over from AMWA and Student Assembly is in charge of sponsoring and organizing it beginning in 2012-13 academic year.

3) Efforts were made to increase attendance by medical students at the “Conversations with the Dean” lectures.

4) The Halloween Party was held on October 28, 2011 at the Corner Bar.

5) Parking concerns for medical students at Children’s and Women’s Hospital were addressed by the creation of a flyer that clarified many of the recurrent problems that have caused confusion in the past.

6) The Christmas Party was held on December 9, 2011, at the Alabama Music Box.

7) A debt seminar was held on February 23, 2012, for interested 4th year students.

8) The Aesclepiian Ball was held on March 3, 2012, at the Mobile Carnival Museum.

9) Match Day was held on March 16, 2012, at the Renaissance Riverview Hotel.

10) The Gumbo Chili Showdown was held in order to raise funds for the Regan Robinson Memorial Fund. The date of the event was March 24, 2012, at its new location, Ladd-Peebles Stadium, prior to the University of South Alabama Spring Football game.

11) Student Assembly officers elected for 2012-2013 are President – Kasey Gardner, Vice President – Mary Walker, and Secretary/Treasurer – Alicia Glass.

12) Fourth year students held a yard sale on April 21, 2012, in the parking lot at Grace Community Church.

13) Skit Night was held on May 4, 2012, at the Mobile Convention Center.
OFFICE OF FINANCIAL AID

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**Loans**

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**Scholarships**

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<td>Military – Navy</td>
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<td>$1,399,510</td>
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**Average Indebtedness of a Graduating Senior**

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<td>$137,418</td>
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<td>$133,227</td>
<td>$127,659</td>
<td>$136,604</td>
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An Emergency Loan Fund is available to medical students. Loans of up to $500 may be obtained by students through a fund administered by the Office of Student Affairs and Medical Education for a period of up to 60 days for the purpose of alleviating an unanticipated financial need. There is no interest charged. During the period August 1, 2011, through July 31, 2012, four (4) emergency loans were approved for a total amount of $2,500.00. During that period, seven (7) payments totaling $4,000.00 were paid back into the loan account.
Diversity, Recruitment, and Enrichment for Admission into Medicine (D.R.E.A.M.)

The summer of 2012 marked the twenty-sixth (26th) year of the summer recruitment and enrichment program at the University of South Alabama College of Medicine. Over this period of time, the program has served a total of 262 students.

Recent University budget challenges has made it necessary to reduce the number of program participants, for the fourth year in a row, to the original number, seven (7), accepted when the program first began in 1986. However, in the year 2012, consideration is being given to an increase to 10-12 participants.

The focus of the D.R.E.A.M. continues to be promoting diversity within our college giving primary consideration to educationally and economically disadvantaged candidates to facilitate their dreams of becoming physicians. The envisioned outcome is that these students will remain in the state and return to their communities to serve underserved populations and help eliminate health disparities within our state and the nation.

Phase II
There were six of seven students who successfully completed Phase I of the program in the summer of 2011. Five (5) returned in 2012 for Phase II, and one (1) student from Prairie View A&M chose to attend another program. The 2012 Phase II students represent four (4) different institutions:

- Alabama A&M.......................... 1
- Alabama Huntsville.....................1
- Alabama State..........................2
- University of Florida...................1

Two (2) of the five (5) Phase II students are Alabama residents; one (1) is a resident of Anchorage, Alaska, one (1) is a resident of St. Martinville, Louisiana, and one (1) is a resident of Palm Coast, Florida.

A 2012 curriculum change from a series of departmental/discipline-specific topics focused on first year medical school preparation taught by ~50 different faculty and graduates to a curriculum that focuses on four scientific disciplines (i.e., biology, general chemistry, organic chemistry, and physics) that are tested by the Medical College Admissions Test (MCAT) was instituted. A Speed Reading/Comprehensive course was also enhanced in the 2012 curriculum to include Critical Thinking and Medical Vocabulary. To test these changes, the DREAM Committee decided to eliminate Phase I for this summer and allow the Phase II cohort to finish the program. Therefore, there were no new students accepted into the program. The MCAT sciences were taught by five second year medical students who were chosen based on their high achievement on the MCAT. The Speed Reading course was taught by a doctoral candidate from the College of Education. Students were required to take a different practice MCAT every Saturday, participate in a formal medical issue debate, do two mock medical school interviews, and attend seminars on AMCAS application, financial aid, and medical school coping strategies presented by our students.
The 2012 program was radically different but the students clearly understood what was being done differently and became fully engaged. To date, two of the five students have notified us that they have achieved MCAT scores qualifying them for admission and one has already submitted a primary application. Achieving acceptable MCAT scores does several things; it assures the Admissions Office that the applicant has a predictable chance of graduating in four years, and more importantly, it forces an acceptance of a style of standardized test taking in which complex materials can be tested in short amounts of time (~72 seconds per question). Mastering this technique is useful throughout medical school.

**Admission**
In August of 2012, one (1) male and two (2) female D.R.E.A.M. students entered the University of South Alabama College of Medicine freshman class. The new students represent Alabama A&M, Auburn University, and the University of South Alabama. The students are residents of Andalusia, Alabama; Columbus, Georgia; and Pascagoula, Mississippi.

**Other Recruitment**
In 2011, the Office of Educational Enrichment made recruitment trips to two (2) colleges and universities: Tuskegee and the University of North Alabama. Presently, three (3) recruitment trips are scheduled for 2012: Stillman, University of Alabama, and Alabama State University.
OFFICE OF ADMISSIONS
2011-2012

Applicant Pool and Acceptance Data

The University of South Alabama College of Medicine participates in the American Medical College Application Service (AMCAS). The period for receiving applications to the College of Medicine for the class entering August 13, 2012, opened June 1 and closed November 15, 2011.

For the Class of 2016, one thousand three hundred nine (1309) applications were received. Three hundred fifty-seven (357) applications were received from Alabama residents, eight hundred seventy-four (874) applications from out of state U.S. citizens, including seventy-two (72) from adjacent service area counties in Mississippi and Florida, and seventy-eight (78) applications from citizens of foreign countries. The Admissions Committee interviewed a total of two hundred twelve (212) applicants of which two hundred (200) were residents of Alabama. Of the applicants interviewed, one hundred sixty (160) were offered admission to fill a class of seventy-four (74). Sixty-seven (67) of the matriculating students are Alabama residents and four (4) are from our service area counties. Thirteen (13) offers of admission were made to black applicants, four (4) have matriculated. Three (3) of the matriculating black students are DREAM (Diversity Recruitment and Enrichment for Admission into Medicine) students. This year our records indicate an increase in the number of applicants (1271 in ’11 vs. 1309 in ’12); there is a small decrease in Alabama applicants (389 in ’11 vs. 357 in ’12). Table I gives comparative data since 2009.

The matriculating Class of 2012 represents twenty-three (23) colleges and universities from the United States. Sixty-six percent (66%) of this year’s class, however, come four (4) universities in the state.

Recruitment and Retention Efforts

1. Undergraduate campus recruiting visits and sophomore interviews were implemented by “teams” of faculty and administration. The USACOM recruiting teams counseled over 300 premedical students at eight colleges and universities.

2. The Director of Admissions served as the admissions counselor and advised prospective students on a daily basis. In addition, selected faculty members advised prospective applicants periodically.

3. Premedical visitation day programs were organized and conducted to provide prospective applicants with an opportunity to tour the College of Medicine facilities, review the application process, meet with medical students and faculty, and obtain information on financial aid, housing, and the community.

4. Informative health career related programs were organized and conducted upon request for high school students, community organizations, and premedical special interest groups.
5. The following publications were produced and distributed by the Office of Admissions: 

6. Special admissions reports and correspondence were produced and distributed annually to in-
state premedical advisors and selected out-of-state advisors.

7. A total of sixteen (16) Applicant Interview Day programs were conducted from September 
until mid-March. The interviewers, primarily College of Medicine basic science and clinical 
faculty, serve as members of the Committee on Admissions and/or ad hoc members. These 
members interviewed two hundred twelve (212) candidates; each interviewee was interviewed 
by three committee members, giving a total of six hundred thirty-six (636) interviews.

8. The following Admissions Committee subcommittees were active in 2011-2012: 
Scholarship Subcommittee; Alternate List Subcommittee; Early Acceptance Program 
Subcommittee

**Early Acceptance Program**

In 1990, the College of Medicine and the University's Health Pre-Professions Program established 
an Early Acceptance Program for qualified high school graduates interested in a career in medicine. 
Candidates selected for this program must have a minimum high school GPA of 3.5 and an ACT 
score of 28 (or comparable SAT). Candidates selected for this program receive early acceptance 
from the University of South Alabama College of Medicine. The students enter the Health Pre-
Professions Program at the University of South Alabama, and their curriculum includes the core 
requirements for their selected baccalaureate program and prerequisites for entering medical school. 
Students in this program must maintain a specific grade point average during college and are 
required to meet all other requirements for entering medical school. Students participate in a variety 
of activities on an individual basis to provide a broad exposure to medical education. Students 
participating in the program are expected to enter the College of Medicine following completion of 
the baccalaureate degree.

This year, ninety-four (94) applications were received from students wishing to enter this program. 
After a screening process, forty-five (45) of the applicants were selected for interviews and 
seventeen (17) were offered admission to the program.
Table I
University of South Alabama College of Medicine Admissions Report

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<th>2009</th>
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<tr>
<td>Alabama</td>
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<td>13</td>
<td>4</td>
<td>8</td>
<td>7</td>
</tr>
<tr>
<td><strong>Total Matriculants</strong></td>
<td>74</td>
<td>74</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>Average MCAT</td>
<td>30</td>
<td>31</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Average GPA</td>
<td>3.7</td>
<td>3.7</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>70</td>
<td>59</td>
<td>61</td>
<td>67</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>1</td>
<td>12</td>
<td>11</td>
<td>3</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>2</td>
<td>3</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Foreign</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Female</td>
<td>33</td>
<td>27</td>
<td>32</td>
<td>27</td>
</tr>
<tr>
<td>Rural</td>
<td>10</td>
<td>9</td>
<td>10</td>
<td>12</td>
</tr>
<tr>
<td>Total Black</td>
<td>3</td>
<td>6</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Black Regular Admissions</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Black DREAM Program</td>
<td>3</td>
<td>5</td>
<td>1</td>
<td>3</td>
</tr>
</tbody>
</table>
OFFICE OF CONTINUING MEDICAL EDUCATION

The Office of Continuing Medical Education completed the 2011 reaccreditation application and review process. Reaccreditation with Commendations was sought missing the goal by three of 22 criteria. The Office of CME was granted reaccreditation with a four-year term and no progress reports required.

In 2011-2012 the OCME coordinated CME activities provided by the clinical departments and outside agencies. There were approximately 463 regularly scheduled series (Grand Rounds) for 562 CME credit hours, 2 enduring materials for 3.5 CME credit hours, and 13 unique activities (conferences) accounting for 82.50 CME credit hours. In total 5,516 physician credit hours were awarded and 3,703 non-physician credit hours were awarded. Additionally, two joint sponsorship programs with outside agencies were supported by the Office of CME. The office is currently revising the CME website as well as its online enduring materials.

**Significant CME Achievements:**

- Reaccreditation
- Additional Joint-Sponsorship activities
- Coordination with Office of GME
- Introduction of Point-Of-Care CME
- Created online sign-in-sheets
- Created online evaluation
- Implemented program of "claiming" CME credits upon completion of activity
- Created printable CME certificates upon completion of activity evaluation
- Coordinating and designing Performance Improvement CME
- Improved online CME activities
- Implemented online disclosure process
- Discussions for possible collaboration with Colleges of Nursing and Allied Health
- Assisting Mobile County Health Department in addressing Joint Commission concerns
- Working with Performance Improvement Committee in addressing Core Measures

**CME Plans for 2012-2013:**

1. Continue to develop a "research" aspect to the development and utilization of CME.
2. Develop criteria for effective use of audience response system.
3. Host CME Educational Forum for local CME / CEU providers.
4. Develop Performance Improvement CME opportunities for all clinical departments.
OFFICE OF GRADUATE MEDICAL EDUCATION

Organizational Structure

The Graduate Medical Education (GME) Office is under the direction of Carole W. Boudreaux, M.D., Assistant Dean for Graduate Medical Education and Designated Institutional Official at the University of South Alabama Hospitals, Mobile, Alabama. Dr. Boudreaux and staff are responsible for the oversight of ACGME accreditation status and the educational environment, as well as administrative issues for all University of South Alabama Hospitals residency and fellowship programs.

The GME Office implements policies of the Graduate Medical Education Committee (GMEC) at the University of South Alabama Hospitals. The Accreditation Council for Graduate Medical Education (ACGME) charges the GMEC with responsibility for monitoring and advising on all aspects of residency education including compliance with ACGME duty hour standards and creating a strong working and learning environment. The GMEC is composed of program directors, teaching faculty, designated representatives of the major teaching hospitals and residents selected by their peers. The Assistant Dean for Graduate Medical Education reports activities of the Graduate Medical Education Committee to the Dean, College of Medicine. Meetings of the GMEC are held monthly and include review and approval of requests by programs for changes in resident complement and changes in program directors among other procedural approvals required by the ACGME. The GMEC is responsible for reviewing current issues facing residency and fellowship training programs. The Committee also conducts Internal Reviews of residency and fellowship programs and sets institutional policy to ensure that the quality of education and the work environment for residents and fellows meets or exceeds the standards of the ACGME and USA Hospitals.

Overview

The University of South Alabama Hospitals (USAH) sponsored 11 residency and 7 fellowship programs with 246 residents and fellows during the 2011-2012 academic year.
All residency and fellowship programs are accredited by the Accreditation Council for Graduate Medical Education (ACGME)

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Accreditation Status and Next Site Visit</th>
<th>Number of Residents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine (3 year program)</td>
<td>Continued Accreditation 9/2014</td>
<td>18</td>
</tr>
<tr>
<td>FM: Sports Medicine (1 year program)</td>
<td>Continued Accreditation 1/1/2017</td>
<td>1</td>
</tr>
<tr>
<td>Internal Medicine (3 year program)</td>
<td>Continued Accreditation Approximate date of Self Study Visit under the ACGME’s Next Accreditation System (“NAS”) 5/1/2016</td>
<td>47</td>
</tr>
<tr>
<td>Cardiovascular (3 year program)</td>
<td>Continued Accreditation Approximate date of Self Study Visit under NAS 5/1/2016</td>
<td>6</td>
</tr>
<tr>
<td>Gastroenterology (3 year program)</td>
<td>Continued Accreditation Approximate date of Self Study Visit under NAS 5/1/2016</td>
<td>6</td>
</tr>
<tr>
<td>Infectious Disease (2 year program)</td>
<td>Accreditation Voluntarily Withdrawn</td>
<td>3</td>
</tr>
<tr>
<td>Pulmonary/CC (3 year program)</td>
<td>Continued Accreditation 1/1/2016</td>
<td>6</td>
</tr>
<tr>
<td>Med/Peds (4 year program)</td>
<td>Continued Accreditation Approximate date of Self Study Visit NAS 10/1/2022</td>
<td>9</td>
</tr>
<tr>
<td>Neurology (3 year program)</td>
<td>Awaiting Letter of Notification</td>
<td>7</td>
</tr>
<tr>
<td>Clinical Neurophysiology (1 year program)</td>
<td>2 year accreditation cycle 5/1/2013</td>
<td>0</td>
</tr>
<tr>
<td>OB/GYN (4 year program)</td>
<td>Continued Accreditation 5/2014</td>
<td>16</td>
</tr>
<tr>
<td>Orthopaedic Surgery (5 year program)</td>
<td>Continued Accreditation 1/2013</td>
<td>15</td>
</tr>
<tr>
<td>ORS: Sports Medicine (1 year program)</td>
<td>Voluntary Withdrawal of Accreditation</td>
<td>1</td>
</tr>
<tr>
<td>Pathology (4 year program)</td>
<td>Continued Accreditation April 2013</td>
<td>13</td>
</tr>
<tr>
<td>Pediatrics (3 year program)</td>
<td>Continued Accreditation Approximate date of Self Study Visit under NAS 10/1/2022</td>
<td>34</td>
</tr>
<tr>
<td>Psychiatry (4 year program)</td>
<td>Continued Accreditation (10/1/2016)</td>
<td>16</td>
</tr>
<tr>
<td>Radiology (4 year program)</td>
<td>Continued Accreditation (4/1/2016)</td>
<td>20</td>
</tr>
<tr>
<td>Surgery (5 year program)</td>
<td>Continued Accreditation (8/23/2012)</td>
<td>26</td>
</tr>
</tbody>
</table>
**Program Closures**

The Infectious Disease fellowship program has requested voluntary withdrawal of accreditation effective July 1, 2013, so that the current fellow in the program can complete his training. This will allow the program to regroup in addressing a number of citations from their last site visit. In reviewing the citations received by the ID program, themes were identified affecting multiple programs in the institution including institutional support, specifically, the annual program budgetary process; academic productivity at the resident and faculty level; and the authority of the GME Office/ DIO and GMEC to oversee the programs’ substantial compliance with ACGME requirements. These issues are being addressed at an institutional level via an institutional plan of action task force.

The Orthopedic Surgery/Sports Medicine program has also requested voluntary withdrawal of accreditation due to loss of resources for funding its fellowship position.
**ACGME Accreditation Site Visits**

The following programs were site visited or received RC (Review Committee) accreditation during 2011-2012:

<table>
<thead>
<tr>
<th>Program</th>
<th>Site Visit Date</th>
<th>Effective Date</th>
<th>Accreditation Status</th>
<th>Accreditation Cycle (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiology</td>
<td>October 11, 2011</td>
<td>April 5, 2012</td>
<td>Continued Accreditation</td>
<td>4 years</td>
</tr>
<tr>
<td>Infectious Diseases</td>
<td>October 12, 2011</td>
<td></td>
<td>Voluntary Withdrawal of Accreditation</td>
<td></td>
</tr>
<tr>
<td>Med/Peds</td>
<td>April 12, 2011</td>
<td>April 15, 2012</td>
<td>Continued Accreditation</td>
<td></td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>April 14, 2011</td>
<td>September 23, 2011</td>
<td>Continued Accreditation Approximate date of self study visit under NAS 10/1/22</td>
<td></td>
</tr>
<tr>
<td>Pediatrics</td>
<td>November 30, 2011</td>
<td>April 15, 2012</td>
<td>Continued Accreditation</td>
<td></td>
</tr>
<tr>
<td>Neurology</td>
<td>December 1, 2011</td>
<td>May 17, 2012</td>
<td>Continued Accreditation</td>
<td>1 year</td>
</tr>
<tr>
<td>Surgery</td>
<td>August 23, 2012</td>
<td></td>
<td>Currently awaiting RC Letter of Notification</td>
<td></td>
</tr>
</tbody>
</table>
The USAH institutional average cycle length for the above ACGME-accredited programs is 4.8 years.

The institution also underwent an ACGME institutional site visit June 19, 2012. The Institutional Review Committee will meet during October, 2012 to review the findings and issue their report.

New Program Submissions for Accreditation (pending)

Surgical Critical Care

GMEC Internal Reviews

Three GMEC Internal Reviews were conducted for the following ACGME-accredited programs:

<table>
<thead>
<tr>
<th>Program</th>
<th>Internal Review Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orthopedic Surgery</td>
<td>September 22, 2011</td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>May 9, 2012</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>May 11, 2012</td>
</tr>
</tbody>
</table>

GMEC Oversight in ACGME Letters of Notification (LON), ACGME Resident Surveys and Internal Reviews

The GMEC reviewed the following Plans of Action:

<table>
<thead>
<tr>
<th>Program</th>
<th>Plan of Action</th>
<th>Oversight Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surgery</td>
<td>Internal Review</td>
<td>June 28, 2011</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>ACGME Resident Survey</td>
<td>June 28, 2011</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>ACGME Resident Survey</td>
<td>August 23, 2011</td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>LON</td>
<td>September 27, 2011</td>
</tr>
<tr>
<td>Pathology</td>
<td>ACGME Resident Survey</td>
<td>October 25, 2011</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>Internal Review</td>
<td>October 25, 2011</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>LON</td>
<td>February 28, 2012</td>
</tr>
<tr>
<td>Ob-Gyn</td>
<td>ACGME Resident Survey</td>
<td>April 24, 2012</td>
</tr>
<tr>
<td>Neurology</td>
<td>ACGME request for follow-up report to 2010-2011 Resident Survey</td>
<td>April 24, 2012</td>
</tr>
<tr>
<td>Radiology</td>
<td>ACGME Resident Survey</td>
<td>May 22, 2012</td>
</tr>
</tbody>
</table>
Summary of Activities and Progress

Resident Participation in Patient Safety and Quality of Care Education

Incoming residents and fellows are introduced to the various USA Hospitals quality and patient safety programs upon matriculation into the institution as part of new resident/fellow hospital orientation. The institution provides GME Today online instructional modules for all new incoming residents and fellows in the ACGME six core competency domains, some of which specifically address patient safety. All residents and fellows in the institution will be required to complete the GME Today instructional module on cultural competency for the 2012-2013 academic year, and new incoming residents and fellows will be required to complete the GME Today educational module on achieving effective transitions of care. A subcommittee of the GMEC was appointed to develop an institutional QI program during the 2011-2012 academic year. Projects are now ongoing with presentation on a rotating basis at the monthly chief resident meetings as oversight. USA Online instructional modules have been developed to accompany simulation lab experiences for standardized instruction in areas that will improve patient safety such as ultrasound-guided central line insertion. Residents are appointed to various hospital committees that work to improve patient care and patient safety. “Dropbox” has been adopted for use by residents, fellows and faculty within the institution. Dropbox is an electronic application that allows documents to be accessed anywhere. Any file saved to the Dropbox will be automatically saved to smart phones, electronic tablets, computers and the Dropbox website. Resources housed in the USA GME Dropbox account include patient safety resources such as “The Top 10 List for a Safe and Effective Sign-out” (Kemp et al: Arch Surg. 2008; 143(10): 1008-1010); “Resident Sign-Out; A Precarious Exchange of Critical Information in a Fast-Paced World (from Borowitz, et al; Advances in Patient Safety: New Directions and Alternative Approaches) as well as quick references for core measures. While the above initiatives outline a number of ways residents are involved in and exposed to the concept of patient safety in the institution, there is not an overarching patient safety educational plan in place. Dr. Joyce Guest, GME Instructional Design Specialist, has been tasked with serving as a liaison between the hospitals and the GMEC to coordinate the development of such an initiative in the coming academic year. This will be especially important as the institution transitions to the “Clinical Learning Environment Review” (CLER) program under the ACMGE’s Next Accreditation System. Programs were required to educate their residents and faculty in recognizing the signs of sleep deprivation and fatigue and to employ mechanisms to mitigate the negative effects of fatigue during the 2011-2012 academic year.

Additional initiatives undertaken by the GMEC during the 2011-2012 academic year include:

The newly reconfigured USA GME website that was updated to create a more user friendly resource for addressing all aspects of GME. Separate sections for residents, program directors, program coordinators, and resident applicants were developed. Numerous links to a variety of useful resources were put into place.
USA Online Educational Resources have been developed for programs’ use in the instruction of “Critical Assessment of the Literature and How to Write A Scientific Paper,” “Evidence-based Medicine,” “Delivering Bad News,” “Ultrasound-guided Central Line Insertion,” and “Quality Improvement” as well as program specific resources in use by some individual programs.

A GME Faculty Development Sakai module housing the Duke University “Life Curriculum” was made available to the programs via USA Online.

New instructional resources utilizing the simulation lab were developed for use by all programs in the areas of “Delivering Bad News” and “Ultrasound-Guided Central Line Insertion.” Tegrity, the University’s Lecture Capture System, was made available for use by the individual programs, and grand rounds and other departmental activities are now being recorded for access in Tegrity.

The USA Housestaff Association has been revitalized. A membership drive followed by an educational program on Debt Reduction was sponsored by the Association in May, 2012. Quarterly educational programs to support residents’ personal and professional development sponsored by HCA will be scheduled for the upcoming academic year. The DIO meets quarterly with the Board of Directors of the USA Housestaff Association for feedback about the hospitals’ learning and working environment. Non-voting representatives from the Housestaff Association are included in GMEC meetings.

Dr. Franklin Trimm has volunteered to head up this next Accreditation System Task Force to facilitate transitioning the initial programs in our institution that will come up in the new ACGME accreditation program effective July, 2013.

**Research**

Joyce Guest, Ph.D., GME Instructional Design Specialist, was awarded a $3,000.00 grant from the Office of the Vice President for Health Sciences at the University of South Alabama to Enhance Inter-professional Education Across the Health Sciences.
The Thirty-ninth Annual Medical Student Summer Research Program was held on Friday, August 3, 2012 hosting approximately 150 attendees in the Medical Sciences Building auditorium and College of Medicine Conference Room. Twenty first and second-year medical students participated in research projects with basic science and clinical faculty in the College of Medicine during the summer. A weekly seminar series introduced students to important research related topics. The program aims to highlight the relation between scientific discoveries and their application in clinical medicine.

Dr. David Robertson, Elton Yates Professor in Autonomic Disorders, and Departments of Neurology, Medicine, and Pharmacology at the Vanderbilt University School of Medicine was the keynote speaker. Dr. Robertson’s seminar was entitled, “A New Paradigm of Genome Research in Human Disease.”

Culmination of the summer’s work was the presentation of eight oral and twelve poster presentations at the Annual Medical Student Research Day. Student presentations and their faculty sponsors were as follows:

**ORAL PRESENTATIONS**

Thomas Holcombe, freshman medical student. Focal adhesion kinase regulates the expression of inflammatory cell adhesion molecules in endothelial cells. Sponsored by Lim, Steve, Ph.D., Department of Biochemistry and Molecular Biology.


Stefan Osborn, sophomore medical student. Microparticle contents isolated from proliferating pulmonary cells. Sponsored by Bauer, Natalie, Ph.D., Department of Pharmacology, and Sayner, Sarah, Ph.D., Department of Cell Biology & Neuroscience, and Center for Lung Biology.


Andrew Schneider, sophomore medical student. The presence of SIRS in burn and trauma patients correlates with altered microvascular function. Sponsored by Richards, William, M.D., Simmons, Jon, M.D., Gonzalez, Richard, M.D., Frota, Mohammed, M.D., Department of Surgery, and Gillespie, Mark, Ph.D., Department of Pharmacology, Alvarez, Diego, M.D., Ph.D., Departments of Internal Medicine and Pharmacology, Center for Lung Biology.
Christopher Smith, sophomore medical student. Disrupting ICOS: ICOS ligand interaction in lupus-prone mice. Sponsored by Barrington, Robert, Ph.D., Department of Microbiology and Immunology.


**POSTER PRESENTATIONS**

R. Frank Bumpus, sophomore medical student. Hyperspectral measurement and analysis of cellular fluorescent signals. Sponsored by Rich, Thomas, Ph.D., Alvarez, Department of Pharmacology, Diego, M.D., Ph.D., Departments of Internal Medicine, Pharmacology, and Center for Lung Biology, and Leavesley, Silas, Ph.D., Department of Chemical and Biomolecular Engineering.

Stephen Cheek, sophomore medical student. NCK-interacting kinases phosphorylates coflin and inhibits breast cancer cell invasion. Sponsored by LeClaire, Lawrence, Ph.D., Department of Biochemistry and Molecular Biology.

Jordan Fernandez, freshman medical student. Cloning, expression, and purification of 3β-hydroxysteroid dehydrogenase from *E. Coli*. Sponsored by Honkanen, Richard, Ph.D., Department of Biochemistry and Molecular Biology.

Brandon Finnorn, freshman medical student. Functional glycomics of the pulmonary and systemic vasculature: lectin histochemistry for probing differentiated glycoproteins. Sponsored by Cioffi, Eugene, Ph.D., Department of Pharmacology and Center for Lung Biology.

Christopher George, sophomore medical student. Three dimensional imaging of the plexiform lesion. Sponsored by Oka, Masahiko, M.D., Ph.D., Stevens, Troy, Ph.D., Department of Pharmacology, and Center for Lung Biology.

Hayden Hundley, sophomore medical student. Reverse toilet training pattern in children with higher functioning autism. Sponsored by Swingle, Hanes, M.D., M.PH., and Department of Pediatrics, and Wooster, Donna, Ph.D., Department of Occupational Therapy.

Christopher Mills, sophomore medical student. Sodium bicarbonate regulation of intracellular PH in pulmonary artery and pulmonary microvascular endothelial cells. Sponsored by Sayner, Sarah, Ph.D., Department of Cell Biology and Neuroscience, and Center for Lung Biology.
Megan Missanelli, sophomore medical student. Accuracy of various imaging modalities in predicting pathologic breast tumor size. Sponsored by Dyess, Lynn, M.D., Department of Surgery, Qureshi, Yasmeen, M.D., Department of Radiology, and Tucker, J. Allan, M.D., Department of Pathology.


Audrey Paulzak, sophomore medical student. The effect of bariatric surgery on the level of activated caspase-1. Sponsored by Nijhawan, Sheetal, M.D., and Richards, William, M.D., Department of Surgery, and Alvarez, Diego, M.D., Ph.D., Departments of Internal Medicine and Pharmacology.

Austin Reece, sophomore medical student. The role of α5β1 integrin in vasoconstriction of pulmonary arteries in an animal model of severe pulmonary arterial hypertension. Sponsored by Fagan, Karen, M.D., Departments of Internal Medicine and Pharmacology, and Center for Lung Biology.

Kyle Taylor, sophomore medical student. Role of $K_{ca}^{3.1}$ (IK) channels in myometrial contractions. Sponsored by Taylor, Mark, Ph.D., Department of Physiology.

The Clyde G. “Sid” Huggins Medical Student Research Awards were presented to Mr. Jonathan Wolfe, sophomore medical student for best oral presentation entitled, “Compensatory movement strategies of walking in multiple sclerosis.” He was sponsored by Anthony Martino, M.D., and Christopher Eckstein, M.D., Departments of Surgery and Neurosurgery, respectively, and Wei Liu, Ph.D., Department of Physical Therapy. Mr. Christopher Smith also tied for the best oral presentation award entitled, “Disrupting ICOS: ICOS ligand interaction in lupus-prone mice.” He was sponsored by Robert Barrington, Ph.D., Department of Microbiology and Immunology. Mr. Hayden Hundley, sophomore medical student was presented best poster presentation entitled, “Reverse toilet training pattern in children with higher functioning autism.” He was sponsored by Hanes Swingle, M.D., M.PH., Department of Pediatrics, and Donna Wooster, Ph.D., Department of Occupational Therapy. Each winner was presented with a plaque of recognition and cash award. Recipients are eligible to make their presentations at the Annual National Research Forum in Galveston, Texas.
Graduate Program in Basic Medical Sciences

Administration

Many thanks to Dr. Ronald Balczon for serving at Director of the Basic Medical Sciences Graduate Program for the previous six years. Basic Medical Science Graduate Faculty elected Dr. Joseph Brewer to serve as the next Director. He assumed duties of the directorship on July 1, 2012.

Admissions

The Graduate Program Office processes applications and hosts interviews for prospective students to the program.

Interviews for Basic Medical Sciences Graduate Program Fall 2012 Class applicants were held in February, March, April, and June. A total of 16 students were interviewed (US=13; International=3). A summary of Admissions activity is provided below.

<table>
<thead>
<tr>
<th>Admissions - BMS Graduate Program</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inquiries        US</td>
<td>102</td>
</tr>
<tr>
<td>International</td>
<td>89</td>
</tr>
<tr>
<td>Applicants       US</td>
<td>27</td>
</tr>
<tr>
<td>International</td>
<td>18</td>
</tr>
<tr>
<td>Acceptances      US</td>
<td>14</td>
</tr>
<tr>
<td>International</td>
<td>3</td>
</tr>
<tr>
<td>Matriculants     US</td>
<td>12</td>
</tr>
<tr>
<td>International</td>
<td>1</td>
</tr>
<tr>
<td>Average GRE</td>
<td>1214</td>
</tr>
<tr>
<td>Average GPA</td>
<td>3.60</td>
</tr>
</tbody>
</table>

Recruitment Activities

1. Graduate Program faculty presented information at regional high school science conferences and fairs.
2. Dr. Balczon met with faculty colleagues at regional colleges and universities during Fall, 2011. Dr. Balczon and Ms. Flagge participated in the Alabama Connection Graduate School Recruitment Expo in October, 2011. Ms. Flagge represented the program at the Louisiana Private College Graduate Program Expo in North Louisiana in September, 2011 and participated in the ARK-LA-TEX-MS Career Fair in April, 2012.
3. Presentations were made to USA’s Premedical Honors Society and Freshman Biomedical Sciences students.
4. Students and faculty from William Carey University attended the Basic Medical Sciences Graduate Forum in December, 2011.

**Curriculum** Instructional format for IDL 581 Fundamentals of Biomedical Sciences course was altered.

**New Programs/Policies/Requirements**

Recommendations from the 2011 self-study review under current development include:

a. establishing criteria for track leaders  
b. establishing additional tracks  
c. revising track curricula

**BMSSO-Basic Medical Sciences Student Organization**

BMSSO hosted meetings in which personnel from academic, governmental, and industry sites addressed students on topics including developing CV’s and employment opportunities with agencies such as NIH, CDC, etc. The organization also hosted the annual Charles Baugh “Dawg Day” during the 2011 Fall Semester and a Faculty Appreciation Shrimp Boil in July, 2012. They sponsored a coat drive in February, 2012 to benefit residents at St. Mary’s Home and hosted a “welcome” reception at Dr. Gerthoffer’s home for the 2012 Class during Orientation Week in August, 2012.

**Extramural Support for Graduate Training**

1. Six students continue to receive stipend support via the NIH Predoctoral Institutional Training Grant on “Cell Signaling and Lung Pathobiology.”
2. BMS Graduate Program students received extramural grant awards through American Heart Association and EPSCOR. Travel awards to national conferences and annual meetings in the disciplines were also received.

**Graduates**

One hundred eighty-two students have received a Ph.D. in Basic Medical Sciences. Students completing all requirements during the academic year (September 2011-August 2012) are:

**Amanda Mae Beaster**  
**DISSERTATION TITLE:** “Characterization of Autophagy-Related Phenotypes of the Obligate Intracellular Pathogen *Rickettsia Prowazekii*”  
**MAJOR PROFESSOR:** David Wood, Ph.D.  
**DEPARTMENT/TRACK:** Microbiology and Immunology  
**CURRENT POSITION:** Medical Writer, MMS Holdings, Inc., Canton, MI
<table>
<thead>
<tr>
<th>Name</th>
<th>Dissertation Title</th>
<th>Major Professor</th>
<th>Department/Track</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daniel John Devine</td>
<td>“Elucidating the Role of N-Myc Interactor on Epithelial-Mesenchymal Transitions and Tumor Progression”</td>
<td>Rajeeve S. Samant, Ph.D.</td>
<td>Cancer Biology</td>
<td>Postdoctoral Fellow; St. Jude Children’s Hospital, Memphis, TN</td>
</tr>
<tr>
<td>Tracy Yvette Dodd</td>
<td>“Regulation of MMPs During Coronary Collateral Growth”</td>
<td>Petra Rocic, Ph.D.</td>
<td>Biochemistry and Molecular Biology</td>
<td>Postdoctoral Fellow; LSU Health Sciences College of Medicine, Department of Physiology, New Orleans, LA</td>
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<tr>
<td>Wei Pan Feinstein</td>
<td>“Cellular Mechanisms Contributing to Cyclic AMP Compartmentalization”</td>
<td>Thomas Rich, Ph.D.</td>
<td>Pharmacology</td>
<td>Postdoctoral Fellow; Louisiana State University, Department of Biology, Baton Rouge, LA</td>
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<tr>
<td>Lillianne Gracelynn Harris</td>
<td>“The Role of Mechanisms of Hedgehog Signaling in Promoting Tumor Vascularization and Malignancy”</td>
<td>Lalita Samant, Ph.D.</td>
<td>Cancer Biology</td>
<td>Postdoctoral Fellow; The Medical University of South Carolina, Charleston, SC</td>
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<tr>
<td>Mitchell Esmeralda Menezes</td>
<td>“Elucidating the Role of Heat Shock Protein MRJ(L) in Tumor Growth and Metastasis”</td>
<td>Rajeeve S. Samant, Ph.D.</td>
<td>Cancer Biology</td>
<td>Postdoctoral Fellow; Virginia Commonwealth University, Richmond, VA</td>
</tr>
<tr>
<td>Kyle Adam Morrow</td>
<td>“Elucidating the Role of the Tumor Suppressor Protein Merlin in Breast Cancer”</td>
<td>Lalita Samant, Ph.D.</td>
<td>Cancer Biology</td>
<td>Postdoctoral Fellow; Center for Lung Biology, University of South Alabama, Mobile, AL</td>
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</table>
Aimee Marie Tucker
DISSERTATION TITLE: “Functional Analysis of Rickettsial RalF: A Secreted Effector of Rickettsia prowazekii”
MAJOR PROFESSOR: David Wood, Ph.D.
DEPARTMENT/TRACK: Microbiology and Immunology
CURRENT POSITION: Postdoctoral Fellow; Department of Microbiology and Immunology, University of South Alabama, Mobile, AL
Summary of Extramural Support

Funding for the 2011-2012 academic year includes $12,670,425 and $3,128,661 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Last 6 Years

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<tr>
<td>2007</td>
<td>$20,222,905</td>
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<td>2008</td>
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<td>2010</td>
<td>$44,124,327*</td>
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<td>2011</td>
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<td>2012</td>
<td>$15,799,086</td>
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*Includes 14.5 million dollar facilities improvement grant from NIH
## EXTRAMURAL FUNDING  
**(OCTOBER 1, 2011 – SEPTEMBER 30, 2012)**

### BIOCHEMISTRY & MOLECULAR BIOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
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<th>Project Title</th>
<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Donna Cioffi, Troy Stevens, &amp; Audrey Vasauskas</td>
<td>NIH 1 F32 HL112565-01</td>
<td>Role of Calcineurin in Store-Operated Calcium Entry of Pulmonary Endothelium</td>
<td>$49,214.00</td>
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<tr>
<td>William Gerthoffer &amp; Rahkee Gupte</td>
<td>NIH 5 R01 HL077726-08</td>
<td>Small Heat Shock Proteins in Smooth Muscle Plasticity</td>
<td>$330,784.00</td>
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<td>Sachin Gupte</td>
<td>NIH 5 R01 HL085352-06</td>
<td>Regulation of Vascular Smooth Muscle Calcium by NADPH Redox</td>
<td>$367,500.00</td>
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<tr>
<td>Richard Honkanen</td>
<td>NIH 5 R01 HL110937-02</td>
<td>Methods to Enable Cholesterol Catabolism in Human Monocyte Derived Macrophages</td>
<td>$334,125.00</td>
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<tr>
<td>Steve Lim</td>
<td>AHA 12SDG 10970000</td>
<td>Nuclear Localized FAK Controls VCAM-1 Expression in Vascular Inflammation</td>
<td>$77,000.00</td>
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<tr>
<td>Petra Rocic &amp; Rebecca Hutcheson</td>
<td>AHA 11PRE 7690011-02</td>
<td>Regulation of Coronary Collateral Growth by microRNA in the Metabolic Syndrome</td>
<td>$22,180.00</td>
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<td>Petra Rocic &amp; William Gerthoffer</td>
<td>NIH 5 R01 HL093052-05</td>
<td>Regulation of Coronary Collateral Growth in the Metabolic Syndrome</td>
<td>$358,926.00</td>
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**Total** $1,539,729.00
### BIOMEDICAL LIBRARY

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<tr>
<td>Robert Britton</td>
<td>National Network of Libraries of Medicine South/University of Maryland 120244</td>
<td>Exhibiting Library Resources at AAFP Conference</td>
<td>$1,935.00</td>
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<td>Robert Britton</td>
<td>National Network of Libraries of Medicine South/University of Maryland 120253</td>
<td>Exhibiting Library Resources at APA Conference</td>
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<td>Geneva Staggs &amp; Judith Burnham</td>
<td>National Network of Libraries of Medicine South/University of Maryland 120159</td>
<td>Equipment for Patient Education</td>
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**Total** $8,654.00

### CELL BIOLOGY & NEUROSCIENCE

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<tbody>
<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 8R01 OD010944-03</td>
<td>Mouse Models for Mitochondrial Disorders Caused by mtDNA Mutations</td>
<td>$358,888.00</td>
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<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 2P01 HL066299-11A1</td>
<td>Program Project Gene Delivery Core 3*</td>
<td>$272,826.00</td>
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<td>Wensheng Lin</td>
<td>NIH 5R01 NS073132-02</td>
<td>The Effects of the Unfolded Protein Response on Medulloblastoma</td>
<td>$324,844.00</td>
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*Center for Lung Biology Program Project*
### CELL BIOLOGY & NEUROSCIENCE (cont’d)

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<tr>
<td>Sarah Sayner</td>
<td>AHA 11GRNT7430039-02</td>
<td>Bicarbonate Stimulated Soluble Adenylyl Cyclase Regulates Pulmonary Endothelial Barrier</td>
<td>$82,500.00</td>
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<tr>
<td>Sarah Sayner</td>
<td>Parker B. Francis Fellowship Program 120017</td>
<td>Bicarbonate Transporters are Required for AC 10-Induced Endothelial Barrier Disruption</td>
<td>$50,000.00</td>
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<tr>
<td>Glenn Wilson</td>
<td>NIH 5 R01 ES003456-26 Revised</td>
<td>Environmental Beta Cell Toxins - Mechanisms of Action</td>
<td>$305,613.00</td>
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**Total** $1,394,671.00

### CENTER FOR STRATEGIC HEALTH INNOVATIONS

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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Deborah Lafky</td>
<td>ADPH MP2012 06-09</td>
<td>Advanced Regional Response Training Center (ARRTC Training 2013)</td>
<td>$854,276.00</td>
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<tr>
<td>Deborah Lafky</td>
<td>ADPH MP2012 06-10</td>
<td>Alabama Incident Management System (AIMS 2013)</td>
<td>$142,405.00</td>
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<tr>
<td>Dan Roach</td>
<td>National Coordinator for Health Information 90R C0055-01-03-SUPP</td>
<td>The Alabama Regional Extension Center</td>
<td>$469,543.00</td>
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**Total** $1,466,224.00
## COM ADMINISTRATION

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<tr>
<td>Samuel J. Strada</td>
<td>AHA 12MSRF9950000</td>
<td>Advanced Cardiovascular Research for Medical Students</td>
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## EMERGENCY MEDICINE

<table>
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<tr>
<th>Principal Investigator</th>
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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>Bayer Healthcare Pharmaceuticals, Inc.</td>
<td>A Multi-Center, Multifactorial, Randomized, Double-Blind, Placebo-Controlled Dose-Finding Study of Nifedipine GITS and Candesartan in Combination Compared to Monotherapy in Adult Patients with Essential Hypertension</td>
<td>$101,487.00</td>
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<tr>
<td>Frank Pettyjohn</td>
<td>Novartis Pharmaceuticals</td>
<td>An 8 Week, Randomized, Double-Blind, Parallel Group, Multi-Center, Active Controlled Study to Evaluate the Antihypertensive Efficacy and Safety of Aliskiren Administered in Combination with Valsartan versus Valsartan Alone in Patients with Stage 2 Systolic Hypertension and Type 2 Diabetes Mellitus</td>
<td>$18,906.00</td>
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<tr>
<td>Frank Pettyjohn</td>
<td>Wyeth Pharmaceuticals</td>
<td>Distribution of PCV13 Serotype Streptococcus Pneumoniae in Adults 50 Years and Older Presenting to Selected US Hospitals with Chest X-Ray Confirmed Community-Acquired Pneumonia</td>
<td>$2,889.00</td>
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**EMERGENCY MEDICINE (cont’d)**

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<th>Principal Investigator</th>
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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>Forest Research Institute</td>
<td>A Multi-Center, Randomized, Double-Blind, Placebo-Controlled 8 Week Study to Evaluate the Safety and Efficacy of Nebivolol and Valsartan Given as a Fixed-Dosed Combination in Patients with Stage 1 or 2 Essential Hypertension</td>
<td>$115,189.00</td>
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**Total**  $238,471.00

**FAMILY MEDICINE**

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<th>Principal Investigator</th>
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<tbody>
<tr>
<td>Carol Motley</td>
<td>HRSA 5 D56 HP23279-02-00</td>
<td>PreDoctoral Training in Primary Care</td>
<td>$184,613.00</td>
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<tr>
<td>Allen Perkins</td>
<td>HRSA 5 D58 HP23236-02-00</td>
<td>Residency Training in Primary Care Program</td>
<td>$151,537.00</td>
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<tr>
<td>Allen Perkins</td>
<td>AFPRHB 110377</td>
<td>Student Preceptorship</td>
<td>$30,000.00</td>
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**Total**  $366,150.00
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<th>Principal Investigator</th>
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<tr>
<td>Diego Alvarez</td>
<td>NIH 2 P01 HL066299-11A1</td>
<td>Program Project Tissue Culture Core 2*</td>
<td>$349,159.00</td>
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<tr>
<td>Barney Beaver</td>
<td>Eli Lilly</td>
<td>The TRANSLATE-ACS Study: Treatment with ADP Receptor Inhibitors: Longitudinal Assessment of Treatment Patterns and Events after Acute Coronary Syndrome</td>
<td>$3,051.00</td>
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<tr>
<td>Barbara Burckhartt</td>
<td>Roche</td>
<td>A Phase III, Double-Blind, Randomized Placebo-Controlled Study to Evaluate the Effects of RO4607381 on Cardiovascular (CV) Risk in Stable CHD Patients with a Documented Recent Acute Coronary Syndrome (ACS)</td>
<td>$6,283.00</td>
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<tr>
<td>Errol Crook</td>
<td>NIH 2 P20 MD002314-06 Revised</td>
<td>Broad-Based Research Collaboratives on Minority Health and Health Disparities</td>
<td>$1,264,662.00</td>
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<tr>
<td>Michael Culpepper</td>
<td>Otsuka Maryland Research Institute</td>
<td>A Phase III, Multi-Center, Double-blind, Placebo-controlled, Parallel-Arm Trial to Determine Long-term Safety and Efficacy of Oral Tolvaptan Tablet Regimens in Adult Subjects with Autosomal Dominant Polycystic Kidney Disease</td>
<td>$34,745.00</td>
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<tr>
<td>Michael Culpepper</td>
<td>Amgen</td>
<td>EVOLVE - Evaluation of Cinacalcet HCl Therapy to Lower Cardiovascular Events</td>
<td>$7,369.00</td>
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*Center for Lung Biology Program Project
<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
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<tbody>
<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceutical</td>
<td>Multi-Center, Open-Label, Extension Study to Evaluate the Long-term Efficacy and Safety of Oral Tolvaptan Tablet Regimen in Subjects with Autosomal Dominant Polycystic Kidney Disease (ADPKD)</td>
<td>$43,650.00</td>
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<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceutical</td>
<td>A Phase II, Multi-Center, Randomized, Placebo-Controlled, Double-Blind, Placebo-Masked, Parallel-Group Pilot Trial to Compare the Efficacy, Tolerability, and Safety of Tolvaptan Modified-Release and Immediate-Release Formulations, in Subjects with Autosomal Dominant Polycystic Kidney Disease</td>
<td>$15,188.00</td>
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<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceutical</td>
<td>A Multi-Center, Longitudinal, Observational Study of Patients with Autosomal Dominant Polycystic Kidney Disease (ADPKD) to Establish the Rate, Characteristics, and Determinants of Disease Progression</td>
<td>$2,000.00</td>
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<td>Michael Culpepper</td>
<td>Rockwell Medical Technologies</td>
<td>A Randomized, Double-Blinded, Placebo-Controlled, Crossover, Multi-Center Phase III Safety Study of Soluble Ferric Pyrophosphate SFP in Dialysate in Chronic Kidney Disease Patients Receiving Chronic Hemodialysis</td>
<td>$20,681.00</td>
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<tr>
<td>Silvio deMelo</td>
<td>Braintree Laboratories</td>
<td>A Safety, Tolerance and efficacy Evaluation of 3 Different Bowel Cleansing Treatments in Adult Subjects, Including the Elderly and Subjects with Hepatic or Renal Insufficiency</td>
<td>$58,350.00</td>
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<tr>
<td>Karen Fagan</td>
<td>Actelion Pharmaceuticals US, Inc.</td>
<td>Drug Registry to PROSPECTively Describe Use of Room Temperature Stable Epoprostenol for Injection in Patients with Pulmonary Arterial Hypertension</td>
<td>$6,500.00</td>
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<tr>
<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>A Phase II, Randomized, Double-Blind, Placebo-controlled, Multi-Center, Dose-Ranging Study of Cicletanine in Subjects with Pulmonary Arterial Hypertension</td>
<td>$7,616.00</td>
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<tr>
<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>A Randomized, Multi-Center Study of First-Line Ambrisentan and Tadalafil Combination Therapy in Subjects with Pulmonary Arterial Hypertension</td>
<td>$6,125.00</td>
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<tr>
<td>Karen Fagan</td>
<td>United Therapeutics Corporation</td>
<td>A Postmarketing Observational Study to Assess Respiratory Tract Adverse Events in Pulmonary Arterial Hypertension Patients Treated with Tyvaso (treprostinil) Inhalation Solution</td>
<td>$6,406.00</td>
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<tr>
<td>Johnson Haynes</td>
<td>Emmaus Medical</td>
<td>A Phase III, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multi-Center Study of L-Glutamine Therapy for Sickle Cell Anemia and Sickle B-Thalassemia</td>
<td>$2,769.00</td>
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<tr>
<td>Johnson Haynes</td>
<td>Novartis Pharmaceuticals</td>
<td>Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease (SCD) Following Chronic, Intermitten t Red Blood Cell (RBC) Transfusions</td>
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<td>Johnson Haynes</td>
<td>HemaQuest Pharmaceuticals</td>
<td>A Randomized, Placebo-Controlled, Phase II Study of HQK-1001 in Sickle Disease</td>
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<tr>
<td>Jorge Herrera</td>
<td>Merck &amp; Co., Inc.</td>
<td>A Randomized, Active-Controlled, Dose-Ranging Estimation Study to Evaluate the Safety, Tolerability, and Efficacy of Different Regimens of MK-5172 When Administered Concomitantly with Peginterferon α-2b and Ribavirin in Treatment-Naïve Patients with Chronic Genotype 1 Hepatitis C Virus Infection</td>
<td>$61,596.00</td>
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<tr>
<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>Long-term Follow-up of Subjects in a Phase 1, 2, or 3 Clinical Trial in Which Boceprevir or Narlaprevir was Administered for the Treatment of Chronic Hepatitis C</td>
<td>$15,395.00</td>
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<tr>
<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>A Phase III Safety and Efficacy Study of Boceprevir in Subjects with Chronic Hepatitis C With Boceprevir, Peginterferon α-2b, and Ribavirin</td>
<td>$7,103.00</td>
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<tr>
<td>Clara Massey</td>
<td>Bristol Myers-Squibb</td>
<td>A Phase III, Active (Warfarin) Controlled, Randomized, Double-Blind, Parallel Arm Study to Evaluate the Efficacy and Safety of Apixaban in Preventing Stroke and Systemic Embolism in Subjects with Nonvalvular Atrial Fibrillation</td>
<td>$6,655.00</td>
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<tr>
<td>Masahiko Oka &amp; Ivan McMurtry</td>
<td>NIH 5 R21 HL106101-02</td>
<td>Cell-Targeted Drug Delivery for the Treatment of Pulmonary Arterial Hypertension</td>
<td>$182,225.00</td>
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### INTERNAL MEDICINE (cont’d)

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<tr>
<td>Bassam Omar</td>
<td>Hoffman-La Roche, Inc</td>
<td>A Multi-Center, Randomized, Double-Blind, Placebo-Controlled Cardiovascular Outcomes Study to Evaluate the Potential of Aleglitazar to Reduce Cardiovascular Risk in Patients with a Recent Acute Coronary Syndrome (ACS) Event and Type 2 Diabetes Mellitus (T2D)</td>
<td>$5,475.00</td>
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<td>John Vande Waa</td>
<td>HRSA 1 H12 HA24771-01-01</td>
<td>University of South Alabama Family Specialty Clinic</td>
<td>$381,212.00</td>
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<tr>
<td>John Vande Waa</td>
<td>HRSA/RW-USAF-1213</td>
<td>USA Family Specialty Clinic Grant</td>
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### MICROBIOLOGY & IMMUNOLOGY

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<tbody>
<tr>
<td>Joseph Brewer</td>
<td>NIH 5R01 GM061970-13</td>
<td>Homeostasis of the Endoplasmic Reticulum (ER) in Differentiating B – Cells</td>
<td>$316,082.00</td>
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<td>Mary Burtnick &amp; Paul Brett</td>
<td>NIH 2012-2764/Regents of University of California</td>
<td>Burkholderia Mallei Type VI Secretion System – Associated Effectors</td>
<td>$148,328.00</td>
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<td>Jarrod Fortwendel</td>
<td>NIH 1 K22 AI089786-01 A1</td>
<td>Compartmentalization of RASA Activity Through Palmitoylation: Control of Polarized Growth and Virulence</td>
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### MICROBIOLOGY & IMMUNOLOGY (cont’d)

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<tr>
<td>Robert Lausch</td>
<td>Lion's Club</td>
<td>Lion's/USA Eye Research</td>
<td>$17,960.00</td>
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<tr>
<td>David Wood &amp; Jonathon Audia</td>
<td>NIH 2 R01 AI020384-27A1</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
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### MITCHELL CANCER INSTITUTE (SAMSF Projects)

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<th>Agency</th>
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<tbody>
<tr>
<td>Thomas Butler</td>
<td>Hoffmann-LaRoche</td>
<td>An International Multi-Centre Open-Label 2-Arm Phase III Trial of Adjuvant Bevacizumab in Triple Negative Breast Cancer</td>
<td>$6,643.00</td>
</tr>
<tr>
<td>Thomas Butler</td>
<td>Novartis Pharmaceuticals</td>
<td>A Randomized Phase III, Double-Blind, Placebo-Controlled Multicenter Trial of Everolimus in Combination with Trastuzumab and Paclitaxel, as First Line Therapy in Women with HER2 Positive Locally Advanced or Metastatic Breast Cancer</td>
<td>$19,303.00</td>
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<tr>
<td>Daniel Cameron</td>
<td>Alpha Oncology</td>
<td>An Open-Label, Randomized, Phase IIIb Trial Evaluating the Efficacy and Safety of Standard of Care +/- Continuous Bevacizumab Treatment Beyond Progression of Disease in Patients with Advanced Non-Squamos Non-small Cell Lung Cancer (NSCLC) after First-Line Treatment with Bevacizumab Plus a Platinum Doublet-Containing Chemotherapy</td>
<td>$7,250.00</td>
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<tr>
<td>David Clarkson</td>
<td>Wyeth Research</td>
<td>A Phase I/II, Open-Label Study of Neratinib (HKI-272) in Combination with Capecitabine in Subjects with solid Tumors and ErbB-2 Positive Metastatic or Locally Advanced Breast Cancer</td>
<td>$108,006.00</td>
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<td>Windy Dean-Colomb</td>
<td>Centers for Disease Control and Prevention/UAB</td>
<td>Fight for Life</td>
<td>$40,000.00</td>
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<tr>
<td>Michael Finan</td>
<td>Bristol-Myers Squibb</td>
<td>A Phase I/II, Open-Label, Randomized, 2 Arm Study of Ixabepilone Administered Every 21 Days Versus Paclitaxel or Doxorubicin Administered Every 21 Days in Women with Advanced Endometrial Cancer Who have Previously Been Treated with Chemotherapy</td>
<td>$8,272.00</td>
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<tr>
<td>Hung Khong</td>
<td>Abraxis/Celgene</td>
<td>A Phase I/II Clinical Trial of the Hypomethylating Agent Azacitadine (Vidaza) with the Nanoparticle Albumin Bound Paclitaxel (Abraxane) in the Treatment of Patients with Advanced or Metastatic Solid Tumors and Breast Cancer</td>
<td>$81,125.00</td>
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<td>Roger Ove</td>
<td>Accuray</td>
<td>Prospective Evaluation of Cyberknife Sterotactic Radiosurgery for Low and Intermediate Risk Prostate Cancer: Emulating HDR Brachytherapy Dosimetry</td>
<td>$3,200.00</td>
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<tr>
<td>Eddie Reed</td>
<td>US Biotest</td>
<td>Phase IIb Study Evaluating the Safety and Efficacy of TXA127 in the Reduction of Incidence and Severity of Thrombocytopenia in Patients Receiving Second-Line Combination of Gemcitabine and Platinum Therapy for Recurrent Ovarian Carcinoma</td>
<td>$3,263.00</td>
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<td>Eddie Reed</td>
<td>Gilead Sciences</td>
<td>A Phase II Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of GS-6624 Combined with Gemcitabine as First Line Treatment for Metastatic Pancreatic Adenocarcinoma</td>
<td>$2,000.00</td>
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<td>Rodney Rocconi</td>
<td>Laura Crandall Brown Ovarian Cancer Foundation</td>
<td>Early Detection of Ovarian Cancer Via a Self-Sampling Screening Test</td>
<td>$50,000.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>Precision Therapeutics, Inc.</td>
<td>A Non-Interventional Prospective Study of the Accuracy of the Precision Therapeutics, Inc. ChemoResponse Assay in Patients with Recurrent Epithelial Ovarian, Peritoneal, or Fallopian Tube Cancer</td>
<td>$16,000.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>Novartis Pharmaceuticals</td>
<td>A Phase II, Open-Label, Single-Arm, Non-Randomized, Multi-Center Study to Evaluate the Efficacy of Oral TKI258 as Second-Line Therapy in Patients with Either FGFR2 Mutated or Wild-Type Advanced and/or Metastatic Endometrial Cancer</td>
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<tr>
<td>Suzanne Russo</td>
<td>Celldex Therapeutics</td>
<td>An International, Randomized, Double-Blind, Controlled Study of Rindopepimut/GM-CSF with Adjuvant Temozolomide in Patients with Newly Diagnosed, Surgically Resected, EGFRvIII-positive Glioblastoma</td>
<td>$6,000.00</td>
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<td>William Taylor</td>
<td>NewLink</td>
<td>A Phase III Study of Chemotherapy and Chemoradiotherapy With or Without Hyperacute Pancreatic Cancer Vaccine in Subjects With Surgically Resected Pancreatic Cancer</td>
<td>$18,544.00</td>
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<tr>
<td>William Taylor</td>
<td>Novartis Pharmaceuticals</td>
<td>An Open-Label Multi-Center Phase II Study to Compare the Efficacy and Safety of RAD001 as First-Line Followed by Second-Line Sunitinib Versus Sunitib as First-Line Followed by Second-Line RAD001 in the Treatment of Patients with Metastatic Renal Cell Carcinoma</td>
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<td><strong>$445,866.00</strong></td>
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### NEUROLOGY

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<tr>
<td>Bassam Bassam</td>
<td>Novartis Pharmaceuticals</td>
<td>A 24-Month Double-Blind, Randomized, Multi-Center, Placebo-Controlled, Parallel-Group Study Comparing the Efficacy and Safety of 0.5 mg and 1.25 mg Fingolimod (FTY720) Administered Orally Once Daily Versus Placebo in Patients with Relapsing-Remitting Multiple Sclerosis</td>
<td>$25,487.00</td>
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**Total** $25,487.00

### OBSTETRICS & GYNECOLOGY

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<tbody>
<tr>
<td>Susan Baker</td>
<td>Sequenom</td>
<td>SQNM-T21-202/Noninvasive Screening for Fetal Aneuploidy: A New Maternal Plasma Marker</td>
<td>$12,859.00</td>
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<tr>
<td>David Lewis</td>
<td>ADPH C20119019 (GC-12-032)</td>
<td>FY2012 Perinatal Coordinator Grant</td>
<td>$11,500.00</td>
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<tr>
<td>David Lewis</td>
<td>Novartis Pharmaceuticals</td>
<td>An Adaptive Multi-Center, Randomized, Partially Double-Blind, Placebo-Controlled Study to Assess the Safety, PK and PD/Efficacy of RLX030 in Women with Pre-Eclampsia</td>
<td>$3,760.00</td>
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## OBSTETRICS & GYNECOLOGY (cont’d)

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<tr>
<td>Botros Rizk</td>
<td>Novartis Pharmaceuticals</td>
<td>A Double-Blind, Randomized, Controlled, Multi-Center, Proof of Efficacy Study of Oral BGS649 vs. Placebo (Each Coadministered with a Combined Oral Contraceptive) Assessing Pain Response in Patients with Refractory Endometriosis</td>
<td>$24,379.00</td>
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## ORTHOPAEDIC SURGERY

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<tr>
<td>Jorge Alonso</td>
<td>McMaster University</td>
<td>Trial to Evaluate Ultrasound in the Treatment of Tibial Fractures (TRUST)</td>
<td>$9,713.00</td>
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<tr>
<td>Valentino Grishko</td>
<td>Fidia Farmaceutici, S.p.A.</td>
<td>Effect of Hymovis/HYADD4-G on Viability and Function of Human OA Chondrocytes</td>
<td>$20,000.00</td>
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<tr>
<td>Albert Pearsall &amp; Glenn Wilson</td>
<td>Musculoskeletal Transplant Foundation 090-395-03</td>
<td>Effect of Hyaluronic Acid on Chondrocyte Viability and Function During Cold Storage</td>
<td>$100,000.00</td>
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<tr>
<td>Albert Pearsall</td>
<td>Luitpold Pharmaceuticals</td>
<td>Intranasal Ketorolac for Postoperative Pain after Total Knee and Shoulder Arthroplasty: A Prospective Randomized Trial Evaluating Safety and Efficacy</td>
<td>$29,975.00</td>
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<tr>
<td>Karen Crissinger</td>
<td>Centocor, Inc.</td>
<td>A Multi-Center, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease</td>
<td>$41,025.00</td>
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<tr>
<td>Fabien Eyal</td>
<td>Ikaria</td>
<td>Role of Inhaled Nitric Oxide in Modifying the Effects of Mechanical Ventilation with Supplemental Oxygen in Ureaplasma Exposed Newborn Rats</td>
<td>$12,000.00</td>
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<tr>
<td>Hamayun Imran</td>
<td>NIH 5600699144-01/Baylor University</td>
<td>TWiTCH Research Protocol</td>
<td>$51,733.00</td>
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<td>Hamayun Imran</td>
<td>NIH 5600699144/Baylor University</td>
<td>TWiTCH Research Protocol</td>
<td>$7,055.00</td>
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<tr>
<td>Hamayun Imran</td>
<td>Purdue Pharma</td>
<td>An Open-Label, Multi-Center Study of the Safety of Twice Daily Oxycodone Hydrochloride Controlled-Release Tablets in Opiod Experienced Children from Ages 6 to 16 Years Old, Inclusive with Moderate to Severe Malignant and/or Nonmalignant Pain Requiring Opiod Analgesic</td>
<td>$10,528.00</td>
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<tr>
<td>Anne-Marie Kaulfers</td>
<td>ADPH C20119080 (GC-12-064)</td>
<td>Endocrinology Clinic for State Newborn Screening Program</td>
<td>$49,184.00</td>
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<tr>
<td>Katherine Savells</td>
<td>MedImmune, LLC</td>
<td>An Observational Prospective Study to Assess the Outcomes and Risk Factors of RSV Infection Among Premature Infants (32-35 weeks Gestational Age)</td>
<td>$6,813.00</td>
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<tr>
<td>Lawrence Sindel</td>
<td>ADPH C20119082 (GC-12-066)</td>
<td>Cystic Fibrosis Clinic for State Newborn Screening Program</td>
<td>$36,360.00</td>
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<tr>
<td>Felicia Wilson</td>
<td>NIH/12.7921-2009-8.A/Children’s Hospital and Research Center at Oakland</td>
<td>Modulation of Iron Deposition in SCD and Other Hemoglobinopathies Subaward</td>
<td>$2,000.00</td>
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<tr>
<td>Felicia Wilson</td>
<td>ADPH C20119081 (GC-12-065)</td>
<td>Comprehensive Sickle Cell Clinic for State Newborn Screening Program</td>
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**PHARMACOLOGY**

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<tr>
<td>Natalie Bauer</td>
<td>NIH 5 R03 HL110828-02</td>
<td>Myoendothelial Junction and Microparticle Stimulation of PAH Vascular Lesions</td>
<td>$74,250.00</td>
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<td>Natalie Bauer</td>
<td>AHA 11SDG 7390037-02</td>
<td>Microparticles as Mediators and Biomarkers of Pulmonary Arterial Hypertension</td>
<td>$77,000.00</td>
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<tr>
<td>Mark Gillespie, Glenn Wilson, &amp; Diego Alvarez</td>
<td>NIH 1 R01 HL113614-01</td>
<td>mtDNA Repair: An Isolated Pharmacologic Target in Acute Lung Injury</td>
<td>$371,250.00</td>
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<tr>
<td>Mark Gillespie &amp; Glenn Wilson</td>
<td>NIH 5 R01 HL058234-12</td>
<td>DNA Lesions &amp; Gene Expression in Hypoxic Lung Disease</td>
<td>$367,538.00</td>
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<tr>
<td>Mark Gillespie</td>
<td>NIH MP2011-08-01/Exscien Corporation</td>
<td>Mitochondrial DNA Repair Agents for Acute Lung Injury</td>
<td>$88,634.00</td>
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<td>Ivan McMurtry &amp; Salina Gairhe</td>
<td>AHA 11 POST7720023-02</td>
<td>Sphingosine 1 Phosphate Mediates Sustained Vasoconstriction in Pulmonary Arterial Hypertension</td>
<td>$43,756.00</td>
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<td>Thomas Rich, &amp; Diego Alvarez</td>
<td>NIH 2 P01 HL066299-11A1-PROJ 2</td>
<td>Phosphodiesterase 4 and Pulmonary Endothelial Barrier Function – Project 2*</td>
<td>$335,349.00</td>
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<td>Mykhaylo Ruchko &amp; Viktor Pastukh</td>
<td>NIH 5 R21 HL102789-02</td>
<td>Role of Oxidative Modifications to D-loop Region in mTDNA Replication in Hypoxia</td>
<td>$222,750.00</td>
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<td>Stephen Schaffer &amp; Chian Ju Jong</td>
<td>AHA 12PRE 11750020</td>
<td>Importance of Wobble Defect of MELAS</td>
<td>$25,180.00</td>
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<td>Victor Solodushko</td>
<td>AHA 12GRNT 12070291</td>
<td>Inducible Pluripotent Stem Cells to Treat Pulmonary Hypertension</td>
<td>$82,500.00</td>
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<td>Troy Stevens, &amp; Ron Balczon</td>
<td>NIH 2 P01 HL066299-11A1-PROJ 1</td>
<td>cAMP in Endothelial Cell Permeability – Project 1*</td>
<td>$345,386.00</td>
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<td>Troy Stevens, Donna Cioffi, &amp; Mikhail Alexeyev</td>
<td>NIH 5 R37 HL060024-15</td>
<td>Store Operated Ca^{2+} Entry: Lung Endothelial Permeability</td>
<td>$367,538.00</td>
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<td>Troy Stevens &amp; Cristhiaan Ochoa</td>
<td>NIH 5 F31 HL107122-02</td>
<td>Microtubule Stability in Lung Endothelium</td>
<td>$27,960.00</td>
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*Center for Lung Biology Program Project*
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<tr>
<td>Troy Stevens</td>
<td>NIH 2 P01 HL066299-11A1</td>
<td>Program Project Grant Administrative Core 1*</td>
<td>$200,155.00</td>
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<td>Songwei Wu</td>
<td>NIH 2 P01 HL066299-11A1</td>
<td>T-Type Calcium Channels and Neutrophil Transmigration Project 3*</td>
<td>$335,482.00</td>
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Total: $2,964,728.00

### PHYSIOLOGY

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<tr>
<td>Stephen Ballard</td>
<td>CFF Therapeutics BALLAR07XX0-04</td>
<td>Mucociliary Clearance Consortium</td>
<td>$108,000.00</td>
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<tr>
<td>Thomas Lincoln</td>
<td>NIH 5 R01 HL066164-12</td>
<td>Expression of PKG in Vascular Smooth Muscle Cells</td>
<td>$371,250.00</td>
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<td>Mike Lin</td>
<td>NIH 4 R00 HL102056-03</td>
<td>Endothelial SK3 Channel Modulation of EDHF is Estrogen Regulated</td>
<td>$249,000.00</td>
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*Center for Lung Biology Program Project
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<tr>
<td>Mary Townsley</td>
<td>NIH 5 T32 HL076125-09</td>
<td>Training in Cell Signaling and Lung Pathobiology</td>
<td>$202,664.00</td>
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<td>David Weber</td>
<td>NIH 5 R01 HL084159-05</td>
<td>Reactive Oxygen Species Regulation on Vascular Smooth Muscle Cell Migration</td>
<td>$327,443.00</td>
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**SURGERY**

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<tr>
<td>Sidney Brevard</td>
<td>BHR Pharma LLC</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Phase III Study to Investigate the Efficacy and Safety of Progersterone in Patients with Severe Traumatic Brain Injury</td>
<td>$4,500.00</td>
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<td>William Richards</td>
<td>American Society for Metabolic &amp; Bariatric Surgery</td>
<td>Vascular Endothelium Changes After Surgery</td>
<td>$15,000.00</td>
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<td>Paul Rider</td>
<td>Gore &amp; Associates</td>
<td>Efficacy of Bioabsorbable Staple Line Reinforcement in Colorectal and Coloanal Anastomoses</td>
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