ANNUAL REPORT
UNIVERSITY OF SOUTH ALABAMA
COLLEGE OF MEDICINE

October 1, 2010 through September 30, 2011
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FOREWORD

The Annual Report of the USA College of Medicine highlights the achievements of faculty, students, residents, fellows, and staff in teaching, research and other scholarly activity, patient care, and community service during the 2010-11 academic year. Despite significant budget cuts in the state appropriations over the past three years, reductions in practice income, and a highly competitive environment for extramural funding, the faculty and administration have strived to minimize the impact these financial constraints have had on our educational programs and other missions of the college. The goals listed in last year's annual report included: consolidation of clinical out-patient practice sites, assessing the benefits of a new staffing model (Health Care Management Company) for hospital and health service foundation employees, better positioning our clinical enterprise to exploit regional, state and national health care reform initiatives, acquiring increased funding for primary care activities, and addressing how new residency restrictions imposed by the ACGME will impact our educational and clinical delivery programs. In certain instances, we have either met or exceeded our goals, whereas in others, for example the current uncertainty and political climate surrounding issues of health care reform have made it hard to develop a cogent and effective strategy.

Several new appointments have been made in positions of leadership within the college. These include the appointment of Dr. Jeff Brandon as the permanent Chair of the Department of Radiology; Dr. David Lewis as Chair of the Department of Obstetrics and Gynecology; Dr. Susan LeDoux, Associate Dean, Division of Medical Education supported by three Assistant Deans, Drs. Benjamin Estrada, Tony Gard, and Jeff Sosnowski; Dr.
Mary Townsley, Associate Dean, Office of Faculty Affairs; and Dr. Carole Boudreaux, Assistant Dean for Graduate Medical Education; Dr. Jonathan Scammell, Assistant Dean for Admissions; Dr. Johnson Haynes, Assistant Dean for Diversity and Cultural Competence. Dr. Tony Martino was appointed Acting Chair of the Department of Neurosurgery due to the resignation of Dr. Gene Quindlen following his thirty year chairmanship; and Dr. Charles Hamm was appointed Interim Chair of the Department of Pediatrics following the retirement of Dr. Loran Clement after seven years as chair. We anticipate great leadership during the coming academic year from these appointees in addressing the challenges imposed by changes in the medical curriculum, intense competition for diminishing sources of research funding, strong economic pressures that have led to increases in the number of uninsured and underinsured patients, plus the proposed cut-backs in Medicaid and Medicare funding at the State and National Levels.

We were very saddened by the loss of two former Emeritus Professor colleagues who had served our college with distinction for many years: Dr. William A. Gardner, Jr. served as Chair of the Department of Pathology from 1982 to 2002 and for two years as Interim Dean and Vice President for Medical Affairs during this period, and Dr. Joseph H. Coggin, Jr. who chaired the Department of Microbiology and Immunology from 1977 to 2007. We are very grateful for the contributions of these friends and colleagues and are pleased and honored to dedicate this year’s annual report in their memory.

Samuel J. Strada, Ph.D.
Dean
University of South Alabama
College of Medicine
2010-2011
Summary of Scholarly Activities
Department of Biochemistry & Molecular Biology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Ochi R, Gupte SA. Apocynin induces rapid inhibition and slow facilitation of Ica,L and decrease and increase of reactive oxygen species in rat ventricular myocytes. Biophys J. 2011 Feb 2;100(3 Suppl 1):197a.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Cioffi DL. Invited speaker. Glycomorphology of the pulmonary vasculature: Endothelial cell glycocalyx and endothelial barrier function. Biomedical Sciences Society-Allied Health, University of South Alabama; 2010 Nov 3; Mobile, AL.

Cioffi DL. Invited speaker. A role for immunophilins in regulation of store-operated calcium entry. Mitchell Cancer Institute; 2011 Jun 21; Mobile, AL.

Gerthoffer WT. Invited speaker. Novel RNAi therapy of pulmonary hypertension. EGEN Corporation; 2011 Mar 4; Huntsville, AL.

Gerthoffer WT. Invited speaker. MicroRNAs and pulmonary hypertension. Bloomberg School of Public Health, Johns Hopkins University; 2011 Mar 10; Baltimore, MD.

Gerthoffer WT. Invited speaker. Post-transcriptional gene silencing in airway and vascular remodeling. Young Investigators Meeting, University of Manitoba; 2011 May 9; Winnipeg, CA.
Gerthoffer WT. Invited speaker. HSP20 as a novel endogenous bronchodilator. Grant Review Symposium – a multi-scale modeling approach to airway hyperresponsiveness; from molecule to organ. American Thoracic Society Meeting; 2011 May 14; Denver, CO.

Rocic P. Invited speaker. Beneficial effects of physiological Ang II and ROS levels in coronary collateral formation. Experimental Biology; 2011 Apr 10; Washington, DC.

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); Member Conflict: Asthma, Immunology; Chair, Lung Host Defense.

Gupta SA, Editorial Board Member, American Journal of Physiology, Heart and Circulatory; Guest Editor, Antioxidant & Redox Signaling; Study Section, Italian Health Ministry, Government of Italy; Swiss Science Foundation and Government of Switzerland.

Honkanen RE, Editorial Board Member, The Open Enzyme Inhibition Journal; NIH ZRG1 BST-J51 Review Group Panel Member, NIH Roadmap Initiative (Assay Development for High Throughput Molecular Screening).

Rocic P, Editorial Board Member, American Journal of Physiology, Heart and Circulatory Physiology Microcirculation; Peer Review Committee Member-American Heart Association and Vascular Wall Biology.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The department continues to undergo significant changes in personnel. Retirement of senior personnel has been balanced by successful searches to fill vacant faculty positions with the most recent recruit, Dr. Lawrence LeClaire, joining the faculty in January 2011. Dr. LeClaire trained in the Department of Cell and Tissue Biology, University of California, San Francisco. His expertise in protein biochemistry of the actin cytoskeleton complements existing research on actin binding proteins in the department and in the College of Medicine. Two new postdoctoral fellows joined the department to work with Dr. Donna Cioffi. Dr. Xiogan Wang (Chinese Academy of Medical Sciences) and Dr. Audrey Vasauskas (University of South Alabama) add to an active group of trainees in the department.
Education activities in the department have focused on three major activities: updating the medical biochemistry course, expanding the contributions of department faculty to graduate education, and revision of the undergraduate medical curriculum. Medical Biochemistry was transformed to a format more consistent with current integrative approaches in medical education. The faculty continued to add case-based lectures and self-directed modules. All department teaching faculty adopted the student-response system for in-class assessments. The senior faculty all contributed to multiple IDL and departmental graduate courses. Five third year graduate students and two second year students are training with department faculty members (Gerthoffer, S. Gupte, Rocic, Cioffi).

Teaching faculty also contributed to a summer biochemistry course in phase II of the DREAM program which was directed by Dr. Sachin Gupte. The program targets disadvantaged undergraduate students interested in a medical career. Drs. Cioffi, Gerthoffer, Gupte, Honkanen, and Rocic contributed lectures. Several postdoctoral fellows (Drs. Joshi, Wang and Vasauskas) also presented lectures as part of the mentoring process for academic career development. The department also contributed to biomedical science education by hosting four sophomore medical students and a USA undergraduate in the College of Medicine and UCUR summer research programs.

The level of research activity and research funding remains strong. Three of the four junior faculty members direct active labs funded by NIH grants. The senior faculty R. Honkanen (Protein phosphatase-5) and W. Gerthoffer (small heat shock proteins) continue to be supported by NIH grants. Two fellowships from the American Heart Association were awarded to department trainees. Dr. A. Vasauskas working with Dr. D. Cioffi will be supported by a postdoctoral fellowship. Rebecca Hutcheson (GSII) training with Dr. Rocic will be awarded a predoctoral fellowship. In addition, new grant applications from every faculty member have either been submitted, or are in development. The faculty publication rate and impact continues to improve. The impact of research in the department is demonstrated by publication of multiple invited reviews and chapters and by invitations to speak at symposia at national meetings (Gupte, Gerthoffer, Rocic) and at other universities. A publication from Dr. Honkanen’s lab was highlighted on the cover page of the Journal of Organic Chemistry. A high level of scholarly activity is also evidenced by participation on national and regional peer review committees and memberships on journal editorial boards. With continued expansion and development of recently hired faculty members the department anticipates positive changes in the medical and graduate curriculum to continue as well as continued growth in the scope and impact of scholarly activity.
2010-2011
Summary of Scholarly Activities
Department of Cell Biology & Neuroscience

1. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. Published Abstracts


III. Published Books


IV. Invited Presentations

Zha X. Invited speaker. Maturation and trafficking of acid-sensing ion channel 1a. The 6th Gulf Coast Physiology Meeting; 2011 May 21; Jackson, MS.
V. NATIONAL PROFESSIONAL RECOGNITION


Dr. Ronald Balczon served as Ad Hoc reviewer for the Lytmos Group LLC.

Dr. Phillip Fields served on the Society for the Study of Reproduction Awards Committee.

Dr. Anthony Gard served as an Ad Hoc reviewer for *Journal of Neuroscience*.

Dr. Steve Kayes served as a Member of the Business Advisory Committee in the American Society of Parasitologists; served as a Moderator for the Bionet Parasitology Listserv at the University of Indiana; served as a Reviewer for the Southeastern Society of Parasitologists Annual Meeting; served as a Member of the Board for the Alabama Department of Rehabilitation Services.

Dr. Susan LeDoux served as a Member of the NIEHS Environmental Health Sciences Review Committee; served on the Editorial Board, *DNA Repair*; served as President, Mitochondrial Research Society; served as a Member of the Physiology and Cell Biology Item Writing Committee of NBME; served as a Member of the Cancer Etiology Study Section.

Dr. Wensheng Lin served as an ad hoc reviewer for *Journal of Neuroscience Research, Acta Neuropathologica*, and *Journal of Cellular Biochemistry*.

Dr. Lyudmila Rachek served as a Reviewer for the Italian Ministry of Health.

Dr. Sarah Sayner served as an ad hoc reviewer for *AJP Lung*; served as a Facilitator for the Poster Session at the American Thoracic Society International Conference; served on the Program Committee of the Pulmonary Circulation Assembly at the American Thoracic Society International Conference.

Dr. Glenn Wilson served on the Editorial Board of *Molecular Development and Aging*; served on the NIAAA Study Section; served on the NIEHS Study Section; served on the NIEHS Outstanding New Environmental Scientist (ONES) Study Section; served on the NIEHS Superfund Review.
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 four distinguished scientists to meet with members in the Department and to present seminars on their research. Dr. Charles Roberts from Oregon Health and Science University presented a seminar titled "Hormonal Control of Lipid Metabolism in Primate Adipose Tissue" on September 16, 2010. Dr. Giovanni Manfredi from Cornell University presented a seminar titled "Regulation of Mitochondrial Energy Metabolism by Protein Phosphorylation" on March 17, 2011. Dr. Lawrence Mandarino from Arizona State University presented a seminar titled "Proteomics in the Study of Insulin Resistance" on April 14, 2011. Dr. Stephen Miller from Northwestern University presented a seminar titled "Combining Immunoregulatory and Myelin Repair Strategies for the Effective Therapy of the EAE Model of Multiple Sclerosis" on April 28, 2011.

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 exceptional mini board scores clearly demonstrate that the quality of instruction provided this Department is among the best in the Country. Also, faculty members from this Department taught Parasitology in the Medical Microbiology course and participated in the teaching of IDL 580 and IDL 581, 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 of 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 Science students, and Anatomy and Physiology for Biomedical Science students. Also, 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 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 Medical Profession.

Due to budgetary constraints the Department was unable to recruit any new faculty over the past year. However, it is still a goal to expand the Neuroscience focus when it is possible to identify new faculty in the future.
2010-2011
Summary of Scholarly Activities
Department of Comparative Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

Lin W. Activation of pancreatic endoplasmic reticulum kinase specifically in oligodendrocytes attenuates EAE-induced demyelination. 42nd Annual American Society for Neurochemistry; 2011 Mar 19-23; St. Louis, MO. Abstract no. PSMO8-05.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

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 Proceedings of the National Academy of Science USA, Current Medicinal Chemistry, and the Michigan Diabetes Research and Training Center, Pilot and Feasibility Grant Program.
Dr. A. Michele Schuler served as a reviewer for the *Journal of Medical Primatology*, *Journal of the American Association of Laboratory Animal Science, Comparative Medicine, Journal of Zoo and Wildlife Medicine, and Theriogenology*. 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 *Journal of Neuroscience Research, Acta Neuropathologica, and Journal of Cellular Biochemistry*.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

This year’s department report is dedicated to the memory of Ms. Gayle Francis, who passed away unexpectedly after Christmas. Gayle was our Manager of Vivarial Services at USA and had dedicated her career to the care and enrichment of research animals and the support of her employees who provided this care. Gayle is greatly missed.

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 Gibson have been active consultants in the design of the animal facilities in the new Laboratory of Infectious Diseases building. The program underwent review by AAALAC International and the USDA.

The faculty continued their expansion of both 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. Audrey Vasauskas, a graduate student in Comparative Medicine and Pharmacology, defended her dissertation “Expression and Storage of Squirrel Monkey Chorionic Gonadotropin in the Pituitary Gland.” The department hosted our colleague, Dr. Stephen Ballard, who presented a seminar, “Water, Salt, Mucus, and Cystic Fibrosis Lung Disease”, in the Distinguished Scientist Seminar Series.

At the end of August we bid farewell to Dr. Susan Gibson, Associate Professor, who retired from the department to return to her home state of North Carolina. Dr. Gibson served the institution for over 20 years as veterinary pathologist and respected colleague.
2010-2011
Summary of Scholarly Activities
Department of Emergency Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Pettyjohn F. Invited speaker. Cardiology review of common problems for Aviation Medical Examiner and Flight Surgeons. US Army, School of Aviation Medicine; 2011 Mar 4; Fort Rucker, AL.

Pettyjohn F. Invited speaker. Cardiology review of common problems for Aviation Medical Examiner and Flight Surgeons. US Army, School of Aviation Medicine; 2011 Jul 20; Fort Rucker, AL.

Pettyjohn F, McKeon JF, McGhee JS, Quattlebaum MD. Invited speaker. Atrial fibrillation in aircrew – when is ablation considered? 59th International Congress of Aviation and Space Medicine; 2011 Sep 14; Bucharest, Romania.

Rivers TN. Invited speaker. Trauma center care. Naval Operations Medical Institute; 2011 Apr 5; Pensacola, FL.

Rivers TN. Invited speaker. Lower extremity injuries. Naval Operations Medical Institute; 2011 May 6; Pensacola, FL.
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); 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 training sites in the College of Medicine.

The Department of Emergency Medicine provides core faculty for the Introduction to Clinical Medicine course in the second year. This adds to the educational experience for
the medical students and provides early interaction with the Emergency Medicine Attending Faculty. 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 2010-2011 program year, the Department of Emergency Medicine continued to support the operations of the University of South Alabama Medical Center, Level I Trauma Center and Emergency Department.

The Departmental offices are on the 10th floor of the University of South Alabama Medical Center. These facilities include advanced audiovisual capabilities, 35mm and digital photographic laboratory, PowerPoint slide development and presentation production areas, and a computer learning system. A simulation laboratory has been constructed at the USA Medical Center. 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 laboratory data and radiology. 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 sixteenth year of operation. The primary clinical site is the Moorer Building which is 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 Coordinator 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, dyslipidemic treatment trials, and combined hypertension with diabetes trials. This clinical research provides a unique opportunity, clinical support, and an educational location for the Department of Emergency Medicine.
2010-2011
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. Invited speaker. Softball pitcher with ulnar fracture by unusual mechanism. 20th Annual Meeting of the American Medical Society for Sports Medicine; 2011 May 3; Salt Lake City, UT.


Perkins A. Invited speaker. Vitamin D and its friends A, E, K (and sometimes calcium). The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

Perkins A. Invited speaker. “Professional” blogging: experiences and lessons from academic family physicians. 44th Annual Society of Teachers of Family Medicine Spring Conference; 2011 May 1; New Orleans, LA.


Perkins A. Invited speaker. Pushing the boulder uphill: educating the academic health centers about the Affordable Care Act. Association of Departments of Family Medicine Winter Meeting; 2011 Feb 24; Charleston, SC.


V. NATIONAL PROFESSIONAL RECOGNITION

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

R. Allen Perkins: President-elect, Alabama Academy of Family Physicians; President, Alabama Rural Health Association; Member, Alabama Academic Family Medicine Council; Program Coordinator, 2012 Winter Meeting of the Association of Departments
of Family Medicine; Member, Patient-Centered Primary Care *Ad Hoc* Subcommittee of the Association of Departments of Family Medicine; Peer Reviewer, *Family Medicine*.

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

Dr. Brian Bettencourt joined the faculty in August at the rank of Assistant Professor after having completed his Family Medicine Residency and Primary Care Sports Medicine Fellowship.

Sarah Treadway, Pharm.D. also joined the faculty as Adjunct Assistant Professor. She holds an Assistant Professorship with the Auburn University Harrison School of Pharmacy and has the responsibility for coordinating clinical experiences for Auburn University Pharm.D. students at the USA Hospitals and the Family Medicine Center.

Dr. Allen Perkins has served on national committees directed at strengthening and redesigning the practice of primary care. He has worked with the Patient Centered Primary Care Task Force and is recognized as a thought leader in rural primary care delivery. He has been placed on a speakers list for this organization.

Dr. Mike Linder remains Team Physician to the USA Jaguars Athletic teams. He and his staff have provided care to over 300 student athletes.

Dr. Tangelia Atkinson has been named Medical Director of the USA Family Medicine Center. The Center serves as the Medical Home for over 10,000 patients and accounts for 24,000 visits into the system. The staff is pursuing NCQA PCMH certification for the Center. The NextGen electronic medical record has now been used for over one year.

Dr. Ehab Molokhia was honored by the Family Medicine graduating residents as “Clinical Teacher of the Year.”

The department-sponsored Family Medicine Interest Group has over 45 active members. The department conducted 10 student workshops and meetings over the past year. Dr. Carol Motley worked with Dr. William Coleman of the University of Alabama-Birmingham to develop a student section of the American Academy of Family Physicians which met in San Destin in June.

Four residents presented posters at the Alabama Academy of Family Physicians Winter Meeting in Birmingham.
2010-2011
Summary of Scholarly Activities
Department of Internal Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Ochoa C, Alexeyev M, Frank D, Stevens T. Pseudomonas aeruginosa exotoxin Y increases intracellular levels of both cAMP and cGMP in pulmonary microvascular endothelial cells. Am J Respir Crit Care Med. 2011 May 1;183:A4179. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


Stevens T, Nickles J. Passive transfer of anoikis-resistant endothelial cells from culture media. Am J Respir Crit Care Med. 2011 May 1;183:A4196. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


Toba M, Alzoubi A, McMurtry IF, Oka M. Expression of S100A4 is markedly unregulated in the plexiform lesions in a preclinical model of severe pulmonary arterial hypertension. Am J Respir Crit Care Med. 2011 May 1;183:A4968. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


### III. PUBLISHED BOOKS

### IV. INVITED PRESENTATIONS


Broughton W. Invited speaker. CSA: When man forgets to breathe. 2011 USA College of Medicine Alumni Association Annual Meeting; 2011 Jun 4; Orange Beach, AL.


Cohen MV. Invited speaker. Cantharidin, a phosphatase inhibitor, protects the heart from ischemic injury through a U0126-sensitive mechanism. International Society for Heart Research 32nd North American Meeting; 2011 May 24; Philadelphia, PA.


Fagan KA. Invited speaker. PH in COPD. Bayer Symposium; 2010 Oct 23; Leverkusen, Germany.

Fagan KA. Invited speaker. Scleroderma associated pulmonary arterial hypertension. American Thoracic Society International Conference Post Graduate Course; 2011 May 14; Denver, CO.

Fagan KA. Invited speaker. Intermittent hypoxia-induced pulmonary hypertension. American Thoracic Society International Conference Post Graduate Course; 2011 May 14; Denver, CO.


Fagan KA. Invited speaker. Pulmonary hypertension for the primary care provider. Alabama Association of Family Practitioners Annual Meeting; 2011 Jun 24; Destin, FL.

Fagan KA. Invited speaker. PFTs. Pulmonary Hypertension Professional Network Conference; 2011 Sep 23; Arlington, VA.
Green WK. Invited speaker. Adult vaccination update. Alabama Society of Physician Assistants Annual CME Meeting; 2011 Feb 19; Birmingham, AL.

Green WK. Invited speaker. AIDS/HIV update 2010. Providence Hospital Fall Education Series; 2010 Oct 22; Mobile, AL

Green WK. Invite speaker. HIV/AIDS update. Providence Hospital Spring Education Series; 2011 May 13; Mobile, AL.

Green WK. Invited speaker. Treatment guidelines for Clostridium Difficile. Alabama Medicaid Agency Annual Medicaid Pharmacy Update; 2010 Oct 21; Mobile, AL.

Haynes J. Invited speaker. Pathophysiology and medical manifestations of sickle cell disease. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2010 Dec 7; Mobile, AL.


Haynes J. Invited speaker. Pathophysiology of sickle cell disease. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2011 May 9; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait and athletes. Sickle Cell Counselor Education and Certification Program, Sickle Cell Association of Alabama; 2011 May 9; Mobile, AL.

Massey CM. Invited speaker. 2010 Update on heart disease in women. Alabama State Nurses Association Convention; 2010 Oct 1; Mobile, AL.

Massey CM. Invited speaker. Vitamin D & cardiovascular disease. Mobile Infirmary Medical Center Medical and Surgical Grand Rounds; 2011 Feb 16; Mobile, AL.

McMurtry IF. Invited speaker. Recent advances in mechanisms of hypoxic pulmonary vasoconstriction. American Thoracic Society International Conference 2011; 2011 May 17; Denver, CO.


Oka M. Invited speaker. Cell-targeted drug delivery for the treatment of pulmonary arterial hypertension. Toho University School of Medicine; 2010 Dec 20; Tokyo, Japan.
Oka M. Invited speaker. Dehydroepiandrosterone and experimental PH. Grover Conference 2011; 2011 Sep 10; Sedalia, CO.

Rutecki GW. Invited speaker. Reclaiming integrity through conscience, philanthropia and vocation. Center for Bioethics and Human Dignity 18th Annual Summer Conference; 2011 Jul 15; Deerfield, IL.

Rutecki GW. Invited speaker. A Christian response to the how much is a life worth debate: the value of cancer therapy. Center for Bioethics and Human Dignity 18th Annual Summer Conference; 2011 Jul 15; Deerfield, IL.

Rutecki GW. Invited speaker. Nutrition and hydration at the end of life. Cabrini Institute; 2010 Oct 8; Manchester, NH.

Rutecki GW. Invited speaker. Congenital heart disease. Northeastern Ohio University College of Medicine; 2011 May 10; Canton, OH.

Rutecki GW. Invited speaker. Gift of life or commodity: transplantation in a global marketplace. Mobile Infirmary Health System; 2011 Apr 19; Mobile, AL.

Rutecki GW, Wright A. Invited speakers. Collaboration to increase of the care in severe hypertension. Auburn University Harrison School of Pharmacy; 2011 Feb 4; Auburn, AL.

Rutecki GW. Invited speaker. Refractory and severe hypertension. Alabama Chapter of the American College of Physicians Annual Scientific Meeting; 2011 Jun 3; Fairhope, AL.

Tyier SK. Invited speaker. HIV management: new drugs, new tests: ARV therapy today. National Network of STD/HIV Prevention Training Centers; 2010 Dec 14; Mobile, AL.

Vande Waa JA. Invited speaker. Management of catheter-related infections. Annual Sickle Cell Conference; 2011 Apr 9; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Ronald C. Allison: Member of Commission for the Accreditation of Respiratory Care, the national agency that accredits training programs for respiratory care.

Diego F. Alvarez: Web Site Coordinator, Pulmonary Circulation Assembly-American Thoracic Society; Program Committee member, Pulmonary Circulation Assembly-American Thoracic Society; Planning Committee member, Pulmonary Circulation Assembly-American Thoracic Society; Program Committee member, Respiratory Section-American Physiological Society; Nominating Committee Chair, Respiratory Section-American Physiological Society; Abstract reviewer, American Thoracic Society International Conference 2010; Abstract reviewer, American Heart

Barney B. Beaver: Advisory Board: Boston Scientific Corporation.

Eduardo G. Calderon served in the following capacities: Director of the Tuberculosis Clinic at the Mobile County Health Department, Member of the Infectious Disease Fellowship Committee and the Pharmaceuticals and Therapeutics Committee at USA Medical Center, Member of the Tuberculosis Medical Advisory Council for the State of Alabama Department of Public Health.

Michael V. Cohen: Editorial Board: Basic Research in Cardiology; NIH: Myocardial Ischemia and Metabolism Study Section 2011 February.


Karen Fagan: Best Doctors in America; American Thoracic Society: Clinicians Advisory Committee, Scientific Advisory Committee, Pulmonary Circulation Assembly Program Committee, Pulmonary Circulation Assembly Planning Committee, Facilitator Poster Session at International Conference, Moderator, minisymposium at International Conference; Pulmonary Hypertension Association, Workshop participant on Pulmonary Hypertension Phenotypes; Member Scientific Leadership Council; Member Research Committee; American Heart Association: Unified Peer Review Steering Committee member, Reviewer for National Research Center, Reviewer Innovation Grants; Southern Society of Clinical Investigation Nominating Committee; NIH K08 reviewer; K99 reviewer; participant at Clinical Research in Pulmonary Hypertension Workshop; Ad hoc reviewer for American Journal of Physiology Lung Cell Mol Physiology; American Journal of Respiratory Critical Care Medicine; Co-Chair 15th Grover Conference on the Pulmonary Circulation Editorial Board Advances in Pulmonary Hypertension.
William Kevin Green: Associate Professor of Medicine, Medical Director of the Infection Control and Employee Health for the University of South Alabama Hospital System, Chairperson of the Institutional Review Board, the Infection Control Committee and the Infection Prevention and Review Committee, Joint Associate Professor of the Department of Physician Assistant Studies, Member of the Infectious Disease Fellowship Committee, the Performance Improvement Council at USA Medical Center and at USA Children’s and Women’s Hospital, Mobile Infirmary Medical Center’s Infection Control Committee, the Medical Executive Committee at USA Medical Center and at Mobile Infirmary West, the Critical Care Committee, the Resident Mentoring Program, the Financial Conflict of Interest/Conflict of Commitment Committee, Mobile Infirmary Medical Executive Committee and the Society for Healthcare Epidemiology of America’s Guidelines Committee. Dr. Green also serves as Chairperson of the Board of Directors at South Alabama CARES as well as Chairperson of the Alabama Medicaid Drug Utilization Review Committee.

Johnson Haynes Jr.: Member, Alabama Sickle Cell Oversight Regulatory Commission, Chapter Review Member on NIH Guidelines for Hydroxyurea Use in Adults, Best Doctors in America, Most Influential African Americans Doctors – Black Health Magazine, America’s Top Doctors.


Terry Jerome Hundley: Top 5 Internal Medicine Interest Group in the nation for total student body enrollment. Chair of Associate Activities, Alabama Chapter ACP Board of Directors Class of 2012, Alabama Chapter Council. Dr. Hundley was featured in an article entitled “My Kind of Medicine: Real Lives of Practicing Internists” of the American College of Physicians IMPact newsletter (March, 2011 edition).

Thomas B. Montgomery: Clinical Vignette Reviewer for the Southern Section of Society of General Internal Medicine, 2011.

GW Rutecki: Peer reviewer, Academic Medicine Journal, Southern Medical Journal, American Journal of Medical Sciences and Ethics and Medicine; Interviewed by The Baltimore Sun, “HIV-Infected organs can save lives”, Apr 2011; Editor, Consultant “Top Paper of the Month”, Reviewer, consultant Photo Quiz; Contributor, McMaster Online rating of the Evidence; Academic Medicine’s “AM Classics Collection,” The

Shannon Tyler: Member of the Infectious Disease Fellowship Committee, the American Medical Association, the Medical Society of Mobile County, the Infectious Disease Society of America and the Medical Association of the State of Alabama.

Clinical preceptor to the Infectious Disease fellows and to Internal Medicine residents as well as Physician Assistant students in the USA Mastin Continuity of Care Infectious Diseases Clinic, the USA Family Specialty HIV-1 Clinic, the Mobile County Board of Health HIV-1 Clinic the Franklin Primary Health Centers HIV-1 Clinic. The majority of Dr. Tyler’s professional time is devoted to providing care to the underserved in Mobile County and the surrounding communities.

John Vande Waa: Chairperson of the Pharmaceuticals and Therapeutics Committee, the Resident Education Committee and the Infectious Disease Fellowship Committee, Member of the Graduate Medical Education Committee, the Infection Control Committee, the P.A. Admissions Committee for Physician Assistant Studies, the Resident Mentoring Program, the LCME Governance and Administration Subcommittee, the American Society of Tropical Medicine and Hygiene, the Infectious Disease Society of America and the American Federation for Medical Research.

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 2011 again honored the department with this award. Several of the departmental faculty were recognized with the red sash award for their educational efforts. Departmental 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 for 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, Nephrology, and Critical Care had particularly successful years in the arena. The residents have been active in scholarly activity primarily through case reports and presentations at regional meetings.
Service

The department continues to deliver excellent clinical service. In general, clinical activities have remained stable across the department despite a decrease in faculty size. In addition to the University Hospitals, we continued our clinical activities at Infirmary West Hospital and the Mobile Infirmary Medical Center. We ended teaching clinical inpatient services at the Mobile Infirmary Medical Center in July, 2011.

Departmental faculty continue to serve on editorial boards, as journal reviewers, on advisory boards and on grant review panels. Our faculty contributes to the Greater Mobile Community through individual service within organizations (faith-based, not for profit, disease oriented) and individual initiatives.
2010-2011
Summary of Scholarly Activities
Department of Microbiology and Immunology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

Burkholderia thailandensis oacA mutants facilitate the expression of Burkholderia 

Burtnick MN, Brett PJ, Harding SV, Ngugi SA, Ribot WJ, Chantratita N, Scorpio A, 
Milne TS, Dean RE, Fritz DL, Peacock SJ, Prior JL, Atkins TP, Deshazer D. The cluster 
1 type VI secretion system is a major virulence determinant in Burkholderia 

Clark TR, Lackey AM, Kleba B, Driskell LO, Lutter EI, Martens C, Wood DO, 
Hackstadt T. Transformation frequency of a mariner-based transposon in Rickettsia 

Housley NA, Winkler HH, Audia JP. The Rickettsia prowazekii ExoU homologue 
possesses phospholipase A1 (PLA1), PLA2, and Lyso-PLA2 activities and can function in 

PL, Huw Davies D, Wu T, Lyons CR, Brett PJ, Burtnick MN, Kozel TR, Aucoin DP. 
Identification of circulating bacterial antigens by in vivo microbial antigen discovery. 
pmc/articles/PMC3163937/pdf/mbio.00136-11.pdf

Tucker AM, Driskell LO, Pannell LK, Wood DO. Differential proteomic analysis of 

Woodard A, Wood DO. Analysis of convergent gene transcripts in the obligate 
Available from: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC3027695 
pdf/pone.0016537.pdf

II. PUBLISHED ABSTRACTS

Burtnick MN, Gherardini FC, Brett PJ. OacA is required for the 4-O-Acetylation of 
Burkholderia pseudomallei and Burkholderia thailandensis O-Polysaccharides. 6th 
World Melioidosis Congress; 2010 Dec 2; Townsville, QLD, Australia. Abstract no. P57.
Burtnick MN, Gherardini FC, Brett PJ. *Burkholderia pseudomallei* type III secretion mutants differentially activate RAW 264.7 macrophages. 6th World Melioidosis Congress; 2010 Dec 2; Townsville, QLD, Australia. Abstract no. P88.


Burtnick MN, Gherardini FC, Brett PJ. *Burkholderia pseudomallei* Cluster 2 and 3 type III secretion systems are required for optimal activation of RAW 264.7 cells. 111th General Meeting of the American Society for Microbiology; 2011 May 24; New Orleans, LA. Abstract no. 2524. Available from: http://www.abstractsonline.com/Plan/AuthorIndex.aspx


Housley NA, Audia JP. The *Rickettsia prowazekii* ExoU homologue possesses phospholipase A1 (PLA1), PLA2, and lyso-PLA2 activities and can function in the absence of any eukaryotic co-factors in vitro. 111th General Meeting of the American Society for Microbiology; 2011 May 24; New Orleans, LA. Abstract no. 2279. Available from: http://www.abstractsonline.com/Plan/AuthorIndex.aspx


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III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS


Brewer JW. Invited speaker. Unraveling the unfolded protein response of antibody-secreting B cells. Department of Cell Biology, University of Alabama at Birmingham, School of Medicine; 2011 Jan 5; Birmingham, AL.

Burtnick MN. Invited speaker. Interactions of Burkholderia pseudomallei type III secretion mutants with host cells. PFSWCE/RMRC-sponsored Burkholderia Workshop, University of California; 2011 Mar 14; Los Angeles, CA.

Burtnick MN. Invited speaker. Interactions of Burkholderia mallei and Burkholderia pseudomallei with host cells. Department of Homeland Security-sponsored Burkholderia Workshop, Northern Arizona University; 2011 Jul 27; Flagstaff, AZ.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Jonathon P. Audia is Review Editor for Frontiers in Cellular and Infection Microbiology.

Dr. Robert A. Barrington is Review Editor for Frontiers in B Cell Biology and Ad hoc reviewer for the Journal of Immunology and European Journal of Immunology.

Dr. Paul J. Brett is ad hoc Reviewer for the journals of The American Journal of Pathology, Antimicrobial Agents and Chemotherapy, Applied and Environmental Microbiology, BMC Microbiology, Central European Journal of Biology, Clinical and Vaccine Immunology, FEMS Immunology and Medical Microbiology, Frontiers in Cellular and Infection Microbiology, Infection and Immunity, Journal of Bacteriology, Journal of Clinical Microbiology, Journal of Proteome Research, Microbiology, Molecular Microbiology, PLoS Neglected Tropical Diseases, PLoS Pathogens, and Proteomics. He also serves as panel member for the 4th Annual National Institutes of Health Career Symposium - Faculty Careers in Research-Intensive Schools. Ad hoc peer reviewer Medical Research Council, United Kingdom - Infections and Immunity Board t-IIB and review panel member for NIAID/NIH “Partnerships for Biodefense (RFA-AI-10-003)” and NIAID/NIH “Protective Immunity in Special Populations (BAA-NIHAI2010085).”
Dr. Joseph W. Brewer served as a Reviewer for the National Science Foundation Graduate Research Fellowship Program: Microbiology and Cell Biology Panel, February 11 - 13, 2011. He served as an ad hoc grant reviewer for the Comitato Telethon Fondazione, Italy, Spring 2011. He served as an ad hoc reviewer for EMBO J., International Immunology and Cancer Research.

Dr. Mary N. Burtnick served as ad hoc reviewer for Protein Expression and Purification, Journal of Bacteriology, Clinical Vaccine and Immunology, Frontiers in Cellular and Infection Microbiology.

Dr. John W. Foster served as a Reviewer for Science, Nucleic Acids Research, Journal of Bacteriology, Molecular Microbiology, Chemical and Engineering News, and Microbiology and Immunology.

Dr. John E. Oakes is Primary Reviewer for Journal of Immunology and ad hoc Reviewer for Investigative Ophthalmology and Visual Sciences.

Dr. David O. Wood is Chair, American Society for Microbiology Membership Committee and a member of the ASM Committee on Ethics. He also serves on the editorial board of Infection and Immunity. Dr. Wood is a member of the Association of Microbiology and Immunology chairs. He is an ad hoc reviewer for Journal of Bacteriology and the Journal of Applied and Environmental Microbiology. Review Editor – Frontiers in Cellular and Infection Microbiology.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Drs. Audia, Brett, Burtnick, and Wood continue contributing to preconstruction plan development for the C06 grant that will provide $14,506,327 for the construction of a 25,800 square foot building to replace the Laboratory of Molecular Biology Building. The Final Record Set (FRD) documents for the C06 – Laboratory of Infectious Diseases (LID) project are scheduled to be completed by September 30, 2011.

The Department’s active research programs remain a major focus of faculty activities. These include research on the obligate intracellular bacterium, Rickettsia prowazekii, by Drs. Audia, and Wood, studies on the unfolded protein response by Dr. Brewer, and research on the physiology and genetics of enteric pathogens by Dr. John Foster. Dr. Barrington continues to focus on examining the environmental and genetic components regulating B cell fate while Dr. Brett and Dr. Burtnick continue their investigations of the molecular mechanisms by which Burkholderia pseudomallei and Burkholderia mallei subvert host innate immune disease. Dr. Rohrer continues to investigate the role of a unique oncofetal immunogen (OFA).

The department is committed to excellence in teaching. All faculty members participate in the Medical Microbiology and Immunology course MIC 211/MIC 530 as well as in the interdisciplinary graduate courses IDL 580 and IDL 581. Several faculty and students also participate in the DREAM program. The department conducted a hands-on medical
microbiology laboratory in the Fall of 2010, but will transition in 2011 to a Team-based Learning (TBL) approach that incorporates case studies and correlations presented by our clinical colleagues as well as "clicker" evaluations. The new course contains student-interactive Wiki and Blog sites where students post self-directed content and discuss infectious disease cases.

The Department hosted three scientists for the Distinguished Scientist Seminar Series who presented outstanding seminars and met with the departmental faculty and students. Thomas L. Rothstein, M.D., Ph.D. a Professor of Molecular Biology Medicine from the Feinstein Institute for Medical Research, Hofstra University School of Medicine, Hempstead, New York presented a seminar entitled “Natural antibody-producing B1cells: From mouse to human and back again.” Andres Vazques-Torres, D.V.M., Ph.D. an Associate Professor of Department of Microbiology from the University of Colorado, Denver presented a seminar entitled “Adaptive tolerance to antibiotics through the nitrosylation of quinol cytochrome oxidases.” Mark Coggeshall, Ph.D. a Robert S. Kerr Foundation Chair in cancer from the Oklahoma Medical Research Foundation Immunology and Cancer Program presented a seminar entitled, “Long and short term inflammation: causes and effects in a murine lupus model and in human Bacillus anthracis infection.”

Dr. Jarrod R. Fortwendel, Assistant Professor, joined the Department of Microbiology and Immunology faculty in August 2011. Dr. Fortwendel received his Ph.D. in Pathobiology and Molecular Medicine in 2005 from the University of Cincinnati. He completed his postdoctoral studies at the University of Cincinnati and at Duke University in Durham, NC.

Dr. John E. Oakes retired January 1, 2011 after 32 years in the Department of Microbiology and Immunology at the University of South Alabama. Dr. Oakes is currently Emeritus Professor in the Department of Microbiology and Immunology.
2010-2011
Summary of Scholarly Activities
Department of Neurology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Teener JW, Elsheikh BH, Bassam BA. Muscle cramps and hyperactivity syndromes neuromuscular vignette medley. AANEM Neuromuscular Update. 2010;55-60.

II. PUBLISHED ABSTRACTS


Duffy K, Maertens P. Epilepsy in Roberts SC phocomelia. 64th American Epilepsy Society Meeting; 2010 Dec 3-7; Boston, MA. Abstract no. 1.171. Available from: http://www.aesnet.org/publications/aes-abstracts/abstractsearch


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Bassam BA. Invited speaker. Nerve conduction pitfalls. The American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM) 32nd Annual Courses and Workshops; 2010 Oct 6; Quebec City, Quebec, Canada.

Bassam BA. Invited speaker. Neuromuscular vignettes medley. The American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM) 57th Annual Scientific Meeting; 2010 Oct 7; Quebec City, Quebec, Canada.

Bassam BA. Invited speaker. Repetitive motor nerve stimulation. The American Association of Neuromuscular & Electrodiagnostic Medicine (AANEM) 32nd Annual Courses and Workshops; 2010 Oct 9; Quebec City, Quebec, Canada.

Bassam BA. Invited speaker. Diabetic neuropathy, update. Southern Clinical Neurological Society 38th Annual Meeting; 2011 Jan 19; Duck Key, FL.

Bassam BA. Invited speaker. Myotonic disorders, update. Southern Clinical Neurological Society 38th Annual Meeting; 2011 Jan 19; Duck Key, FL.

Bassam BA. Invited speaker. Electromyographic features of muscle hyperactivities. National Institute of Health (NIH) Neurophysiology Grand Rounds; 2011 Dec 1; Bethesda, MD.

Darbin O. Invited speaker. GABA functions in the striatum. National Institute for Physiological Sciences; 2011 May 26; Okasaki, Japan.

Maertens P. Invited speaker. Neurometabolism imaging jeopardy. American Society of Neuroimaging; 2011 Jan 22; Fort Myers, FL.


Nariokou D. Invited speaker. Advances in epilepsy. Wake Forest School of Medicine; 2011 Aug 4-7. Winton-Salem, NC.

Ochoa JG. Invited speaker. Seizing epilepsy in the impaired patient. 2010 Alabama Disability Conference. 2010 Oct 19; Perdido Beach, AL.
Ochoa JG. Invited speaker. SUDEP sudden unexplained death in epilepsy. Education and Awareness Program, Epilepsy Foundation Alabama; 2011 Jul 29; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam: Neuromuscular update committee member, American Association of Neuromuscular and Electrodiagnostic Medicine; Committee member and national board examiner, 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.

Christopher Eckstein: Principal Investigator, Sylvia Lawry Physician Fellowship; Member, American Academy of Neurology; Member, National Multiple Sclerosis Society.

Paul Maertens: Member, Editorial Board of the 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; Secretary, Southern Pediatric Neurology Society.

Juan G Ochoa: Member, Editorial Board of the Journal Pediatric Neurology; Epilepsy section member, American Academy of Neurology.

Steve M. Cordina: Member, American Heart Association; Member, American Stroke Association; Junior member, American Academy of Neurology; Member, Neurocritical Care Society; Member, Medical Association of Malta.

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. Kiffin 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 past year was a period of expansion and growth of the Department of Neurology, which resulted in expansion of subspecialty care, teaching and research.

Our successful faculty recruitment has allowed development of unique neurological services for the Gulf Region. Overall there has been a steady increase in tertiary referrals to the department for our unique services.
A four bed epilepsy monitoring unit with state-of-art equipment was opened at the end of May, 2011 at the USA Medical Center. This service allows evaluation of patients with medically-intractable epilepsy. In the short time since opening, several successful epilepsy surgeries have been performed at the Medical Center, in collaboration with the Department of Neurosurgery.

The Department of Neurology has successfully recruited Dr. Steve Cordina, a neurologist trained in both vascular neurology and interventional neurology at the University of Minnesota. He has assumed the Directorship USA Stroke Center and is currently developing an interventional program that will allow intravascular retrieval of thrombi during acute stroke, treatment of intracerebral aneurysms and arterial-venous malformations. He is currently the first interventional neurologist in the central Gulf Region.

The department has also recruited Dr. Christopher Eckstein, who has been trained in Multiple Sclerosis and Neuroimmunology at the Johns Hopkins University. He has already developed a large referral base for patients with MS in the Gulf Region, and will be shortly opening an infusion center for these illnesses at the USA Medical Center.

The Neurology Clerkship has been refined, with the addition of education and evaluation with a formal clinical skills exam. The clerkship continues to be popular, with a significant number of students choosing to enter Neurology as a profession.

Research continues to be an important priority for the department. We continue to be a major center for two NIH-sponsored trials in stroke (SPS3 and IRIS). We completed two phase I studies for antiepileptic drugs. We have been steadily improving our research infrastructure, particularly in areas of dysautonomia, stroke and movement disorders. The publication of original, peer-reviewed articles by departmental faculty has notably increased over previous years.

Over the next year we anticipate large growth of our tertiary programs in epilepsy, multiple sclerosis and stroke, as well as general neurology. We have recruited a faculty member with expertise in movement disorders and deep brain stimulation, who we anticipate will begin in July, 2012. We anticipate moving to the KPG facility, which will improve our ability to service patients more modern facilities.
2010-2011
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. Cervical spine trauma. Greater Gulf Coast Trauma Symposium; 2011 Mar 24; Mobile, AL.

Martino AM. Invited speaker. Pediatric CNS malignancies: neurosurgical and radiation treatment updates. Oncology Outlook 2011; 2011 May 7; Point Clear, AL.

Martino AM. Invited speaker. Concussion awareness. Med School Café Lecture and Round Table; 2011 Aug 25; Mobile, AL.

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 25+ years of service. Dr. Anthony Martino has assumed the role of Acting Chair as of April 2011. 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 needs. 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.

The neuro-oncology clinic at the MCI 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 on concussion awareness. He is in the process of organizing a region wide concussion management program with regional middle and high schools. Dr. Martino served as Co-Course Director with Dr. John R. Russell for the Oncology Outlook Conference held at The Marriott Point Clear on May 5-7, 2011.

Dr. George Rusyniak has initiated the epilepsy surgery program this year. Although only a small volume to date, 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.
2010-2011
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Brooks MN, Finan MA, Mulekar MS, Rocconi RP, Clark ME, Sherman CD, Lenz CB. Introduction of a robot into an obstetrics and gynecology residency: impact on resident education. 59th American College of Obstetrics and Gynecology Annual Clinical Meeting; 2011 Apr 30 - May 4; Washington, DC.


Finan M, Rocconi R. Endometrial cancer as a platform for teaching residents robotic hysterectomy. Gynecol Oncol. 2011 Mar;120(Suppl 1):S127.


Meng E, Shevde L, Reed E, Rocconi R. Understanding molecular pathway differences between ovarian cancer stem cells (OCSC) and non-ovarian cancer stem cells (non-OCSC) leads to the Hedgehog pathway as a common thread. Cancer Res. 2011 Apr 15;71(8 Suppl 1):3406.


Rizk B. Assessment of the fallopian tubes is important from a prognostic as well as therapeutic point of view. Understanding Infertility: A CME Course in Reproductive Medicine & Laboratory Workshop on Human Spermatozoa and Assisted Conception; 2011 Aug 12-14; New Delhi, India. p. 428.

Rizk B. Ovarian hyperstimulation syndrome is characterized by multiple cystic ovaries and third space fluid shift. Understanding Infertility: A CME Course in Reproductive Medicine & Laboratory Workshop on Human Spermatozoa and Assisted Conception; 2011 Aug 12-14; New Delhi, India. p. 428.

Rizk B. Polycysticovarian syndrome is characterized by oligoovulation, hyperandrogenism and polycystic ovaries on ultrasonography. Understanding Infertility: A CME Course in Reproductive Medicine & Laboratory Workshop on Human Spermatozoa and Assisted Conception; 2011 Aug 12-14; New Delhi, India. p. 428.


Smith A, Rocconi R, Finan M. Are we acknowledging the concerns of women with early symptoms of ovarian cancer? Association of Women's Health, Obstetric and Neonatal Nurses Annual Meeting; 2011 Jun 25-29; Denver, CO.

III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Baker S. Invited speaker. Thrombophilic abnormalities in pregnancy. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

Bodie F. Invited speaker. Complications of vacuum and forceps delivery. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.

Cotton W. Invited speaker. Ultrasound: interesting cases. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

Finan M. Invited speaker. Potential pitfalls and traps for the practicing gynecologist. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

LaFleur J. Invited speaker. Pap smear guidelines. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

Owens S. Invited speaker. What is HER? Hypertensive emergency. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.

Rizk B. Invited speaker. Assisted reproduction technology. Springhill College; 2010 Nov 1; Mobile, AL.


Rizk B. Invited speaker. The assessment of tubal patency and the management of change. Symposium on Infertility and Reproductive Medicine; 2010 Dec 16; Dubai, United Arab Emirates.

Rizk B. Invited speaker. The initial assessment of the female. Symposium on Infertility and Reproductive Medicine; 2010 Dec 16; Dubai, United Arab Emirates.

Rizk B. Invited speaker. The diagnosis and management of uterine abnormalities and infertility. Symposium on Infertility and Reproductive Medicine; 2010 Dec 17; Dubai, United Arab Emirates.

Rizk B. Invited speaker. The modern understanding of endometriosis-associated subfertility. Symposium on Infertility and Reproductive Medicine; 2010 Dec 17; Dubai, United Arab Emirates.


Rizk B. Invited speaker. What is new in prevention/management of OHSS? Symposium on Infertility and Reproductive Medicine; 2010 Dec 17; Dubai, United Arab Emirates.

Rizk B. Invited speaker. Ultrasonography in assisted reproductive technology. Department of Obstetrics and Gynecology 3rd Annual Women's Imaging Conference; 2011 Apr 9; Mobile, AL.


Rizk B. Invited speaker. Pathophysiology and treatment of PCOS. Symposium on Infertility and Reproductive Medicine; 2011 Jun 2; Dubai, United Arab Emirates.

Rizk B. Invited speaker. Prevention and management of OHSS. Symposium on Infertility and Reproductive Medicine; 2011 Jun 2; Dubai, United Arab Emirates.

Rizk B. Invited speaker. The assessment of tubal patency and the management of damage. Symposium on Infertility and Reproductive Medicine; 2011 Jun 2; Dubai, United Arab Emirates.

Rizk B. Invited speaker. Ultrasound in infertility. Symposium on Infertility and Reproductive Medicine; 2011 Jun 2; Dubai, United Arab Emirates.

Rizk B. Invited speaker. What is new in prevention/management of OHSS. Symposium on Infertility and Reproductive Medicine; 2011 Jun 2; Dubai, United Arab Emirates.


Rizk B. Invited speaker. PCOS. Symposium on Infertility and Reproductive Medicine; 2011 Jun 3; Dubai, United Arab Emirates.

Rizk B. Invited speaker. Redefining the role of progesterone therapy in ART. Symposium on Infertility and Reproductive Medicine; 2011 Jun 3; Dubai, United Arab Emirates.


Rizk B. Invited speaker. Pathophysiology and treatment of PCOS. Summer Internship in Reproductive Medicine, Cleveland Clinic; 2011 Jun 28; Cleveland, OH.

Rizk B. Invited speaker. The assessment of tubal patency and the management of damage. Summer Internship in Reproductive Medicine, Cleveland Clinic; 2011 Jun 28; Cleveland, OH.

Rizk B. Invited speaker. The initial assessment of the female. Summer Internship in Reproductive Medicine, Cleveland Clinic; 2011 Jun 28; Cleveland, OH.
Rizk B. Invited speaker. Endometriosis-associated subfertility. Summer Internship in Reproductive Medicine, Cleveland Clinic; 2011 Jun 29; Cleveland, OH.

Rizk B. Invited speaker. Ultrasound in infertility. Summer Internship in Reproductive Medicine, Cleveland Clinic; 2011 Jun 29; Cleveland, OH.

Rocconi R. Invited speaker. The development of a multidisciplinary cancer center: past, present, and future. Baldwin County Rotary Club; 2011 Jan 27; Point Clear, AL.

Rocconi R. Invited speaker. Obstetrical and gynecologic hemorrhage: how to get out and stay out of trouble. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.

Sherman C. Invited speaker. Simulation in health care. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.

Stauffer R. Invited speaker. Update on gestational diabetes. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.

Varner S. Invited speaker. Vulvovaginal candidiasis. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Botros Rizk 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. Nicole Brooks moved to Medford, Oregon in July, 2011.

Dr. Michael Finan has a dual appointment with the Department of OB/GYN and the Mitchell Cancer Center. He is Chief of Gynecologic Oncology for the OB/GYN Department.

Dr. Walter Hogan retired in April, 2011.

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 2009, to wear at their graduation in May.

Dr. David Lewis became the new Chair of the Department of Obstetrics and Gynecology effective September 1, 2011.

Dr. Sheri Owens serves as a generalist, and continues as Clerkship Director for the department.

Dr. Botros Rizk is a member of Department of OB/GYN Laboratory QA Committee, Chairman 1999-Present, Medical and Scientific Director of the University of South Alabama IVF Program, Chairman of the American Society for Reproductive Medicine International Membership Committee. Ad hoc reviewer for 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.

Dr. Rodney Rocconi has a dual appointment with OB/GYN and the Mitchell Cancer Center. He teaches the residents GYN Oncology. OB/GYN Residents spend a total of six months working with Doctors Rocconi and Finan during their 4 year residency. Dr. Rocconi was recently promoted to Associate Professor. Dr. Rocconi continues to perform basic science research in his gynecologic cancer-focused lab. Dr. Rocconi received the following awards: National Faculty Award for Excellence in Resident Education from the Council on Resident Education in Obstetrics and Gynecology 2010 and 2011, Most Meaningful Input into Medical Education to the USA Medical Student Class of 2011, America’s top OB/GYN by Consumers’ Research Council of America, Mobile Bay Monthly Magazine 2010 40 Under 40 award and Sponsor for the Hooker-Kubik Research Award.

Dr. Craig Sherman serves as the Program Director and as Medical Director for the Women’s Center. He received the Red Sash award from COM Class of 2009. Dr. Sherman is Chair of the Medical Executive Committee of USACW. He also serves on the following USACW committees, OB/GYN Performance Improvement, Pediatrics and Neonatology, and Radiology.
He serves on the USA Hospital Credentials Committee and the Combined Medical Executive Committee, and the Advisory Committee, Alabama Section, ACOG.

Dr. Steven Varner served as Interim Chair until September 1, 2011 at which time Dr. David Lewis took over as the Chair of OB/GYN. Dr. Varner continues in his capacity as Director of the Division of Gynecology and maintains the Vulvar clinic.
2010-2011
Summary of Scholarly Activities
Department of Orthopaedic Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Wittersheim D, Pearsall AW. An unusual procedure for knee extensor mechanism disruption complicated by patellofemoral arthritis. 2011 Alabama Orthopaedic Society Annual Meeting; 2011 May 21; Point Clear, AL. Abstract no. 8.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Alonso JE. Invited speaker. Los accidentes automovilísticos. XXI Congreso Nacional Asociacion Mexicana de Ortopedia y Traumatologia; 2010 Nov 3; Puerto Vallarta, Jalisco, Mexico.

Alonso JE. Invited speaker. Mangled extremities. 2nd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2011 Mar 24; Spanish Fort, AL.

Alonso JE. Invited speaker. Negative pressure wound vacuum systems. 2nd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2011 Mar 25; Spanish Fort, AL.

Alonso JE. Invited speaker. Approaches to the humerus. AO North America, Fellows Cadaver Symposium; 2011 Apr 30; Miami, FL.

Alonso JE. Invited speaker. Fixation of rib fractures. AO North America, Fellows Cadaver Symposium; 2011 Apr 30; Miami, FL.

Alonso JE. Invited speaker. Biomechanics of the pelvis. AO North America, Pelvic and Acetabular Fracture Management Course; 2011 May 19; Miami, FL.

Alonso JE. Invited speaker. Anterior pelvic ring fixation. AO North America, Pelvic and Acetabular Fracture Management Course; 2011 May 19; Miami, FL.

Alonso JE. Invited speaker. Trochanteric flip. AO North America, Pelvic and Acetabular Fracture Management Course; 2011 May 19; Miami, FL.

Alonso JE. Invited speaker. Acute management of the polytrauma patient. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 10; Lima, Peru.

Alonso JE. Invited speaker. Arteriography in pelvic trauma. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 10; Lima, Peru.

Alonso JE. Invited speaker. Biomechanics in pelvis and acetabulum. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 10; Lima, Peru.

Alonso JE. Invited speaker. Management of sacral fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 11; Lima, Peru.

Alonso JE. Invited speaker. Tomography in pelvic and acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 11; Lima, Peru.

Alonso JE. Invited speaker. Classification in acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 11; Lima, Peru.

Alonso JE. Invited speaker. Surgical approaches in acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 12; Lima, Peru.

Alonso JE. Invited speaker. The trochanteric flip. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 12; Lima, Peru.

Alonso JE. Invited speaker. The transverse posterior wall acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 12; Lima, Peru.

Alonso JE. Invited speaker. Arthrodesis of the hip. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 13; Lima, Peru.

Alonso JE. Invited speaker. Delayed treatment of acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 13; Lima, Peru.

Alonso JE. Invited speaker. Early and late complications in acetabular fractures. AO Trauma Peru, Pelvis and Acetabulum AO Course; 2011 Aug 13; Lima, Peru.

Meyer FM. Invited speaker. Nonoperative treatment of dupuytren’s contracture. University of Mississippi; 2010 Oct 26; Jackson, MS.

Meyer FM. Invited speaker. Salvage procedures for the distal radio-ulnar joint. 11th Triennial Congress of the International Federation of Societies for Surgery of the Hand; 2010 Nov 1; Seoul, Korea.


Meyer FM. Invited speaker. Comparison of Swanson interpositional versus resurfacing arthroplasty of PIP joint. USA Orthopaedic Alumni Association 2011 Biannual Meeting; 2011 Jun 4; Orange Beach, AL.

Meyer FM. Invited speaker. Total elbow arthroplasty. USA Orthopaedic Alumni Association 2011 Biannual Meeting; 2011 Jun 5; Orange Beach, AL.

Meyer FM. Invited speaker. Distal humerus fractures. Mid-Central States Orthopaedic Society Meeting; 2011 Jun 11; Oklahoma City, OK.


Meyer FM. Invited speaker. Children’s elbow fractures. Southern Orthopaedic Society Annual Meeting; 2011 Jul 23; Big Island, HI.

Meyer FM. Invited speaker. Dupuytren’s contracture. Southern Orthopaedic Society Annual Meeting; 2011 Jul 23; Big Island, HI.

Meyer FM. Invited speaker. Distal humerus fracture. 10th Annual South East Trauma Symposium; 2011 Jul 30; Destin, FL.

Meyer FM. Invited speaker. Ulnar sided wrist pain. 10th Annual South East Trauma Symposium; 2011 Jul 30; Destin, FL.

Meyer FM. Invited speaker. Lab: distal radius ORIF. 10th Annual South East Trauma Symposium; 2011 Jul 30; Destin, FL.

Meyer FM. Invited speaker. Scaphoid fractures. 10th Annual South East Trauma Symposium; 2011 Jul 31; Destin, FL.
Meyer FM. Invited speaker. New non-surgical technique for dupuytren’s contractures of the hand. The American Society of Orthopaedic Physician’s Assistants (ASOPA) 35th Annual Meeting; 2011 Aug 10; Panama City Beach, FL.

Meyer FM. Invited speaker. Supracondylar elbow fractures. 99th Annual Clinical Orthopaedic Society Meeting; 2011 Sep 29; Charleston, SC.

Perry MD. Invited speaker. Foot and ankle amputations. Dallas Short Course-Prosthetics and Orthotics; 2010 Oct 21; Dallas, TX.

Perry MD. Invited speaker. The role of fusion and TAA in the treatment of ankle arthritis. USA Orthopaedic Alumni Association 2011 Biannual Meeting; 2011 Jun 4; Orange Beach, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Jorge E. Alonso, M.D., AO North America – Faculty Member; Riverside Military Academy Board of Trustees 2007-present; Voted Best Doctor in America for 2011-2012 for Orthopaedic Surgery.

Fred M. Meyer, M.D., Nominee: Second Vice-president American Academy of Orthopaedic Surgeons; President-Elect – Alabama Orthopaedic Society; President – Clinical Orthopaedic Society; Member – American Academy of Orthopaedic Surgeons Business Practice/Practice Management Committee; Editorial Review Board: The Journal of Bone and Joint Surgery; Editorial Review Board: The Journal of Hand Surgery; Named one of the Best Surgeons in America for 2011; Named one of the Best Doctors in America for 2010-2011 by the Best Doctors in America Association; Clinical Orthopaedic Society – Update on Common Upper Extremity Problems Symposium Moderator; Course Chairman, CORD Meeting at AAOS Annual Meeting; Course Chairman, 2011 AAOS Annual Meeting; Course Chairman, AOA/CORD Educational Program; Symposium Chairman, PGY-1 Year, AOA/CORD Meeting.


Albert Pearsall, M.D., Council Member, Tissue Advisory Council, LifeLink Foundation, Inc.; Member, Surgical Services Division Committee, Mobile Infirmary Medical Center; Publications Committee, American Orthopaedic Society for Sports Medicine;

Mark Perry, M.D. is a member of AAOS Resolutions Committee and on the Editorial Board of the Patient Information website, www.footeducation.com.

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 5 published manuscripts in nationally
recognized journals, and 5 published abstracts. In addition, there have been 43 presentations at regional and national meetings. 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 was nominated for the Second Vice-president American Academy of Orthopaedic Surgeons and is the President-Elect for 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. Dennis Jorgensen, Dr. Adam Handwerger, and Dr. Lee Wilson. Adam Handwerger, MD accepted a Pediatric Fellowship in Orthopaedics at Scottish Rite Hospital in Atlanta, GA; Glenn Lee Wilson, MD, accepted a General Orthopaedic Position at Gadsden Orthopaedics in Gadsden, AL; and Dennis Jorgensen, MD, accepted a General Orthopaedic Position at Ortho Georgia in Macon, GA.
2010-2011
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Titford M. Alabama on stamps. American Philatelist. 2011 Feb;130-42.


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Tucker JA. Invited speaker. Residency training in the United States. Department of Pathology, University of Sao Paulo; 2010 Oct 7; Sao Paulo, Brazil.
Tucker JA. Invited speaker. Update on fellowship reform. College of American Pathologists Residents Forum, United States and Canadian Academy of Pathology Annual Meeting 2011; 2011 Feb 26; San Antonio, TX.

Tucker JA. Invited speaker. Fellowship match: view from the Association of Pathology Chairs. Association of Directors of Anatomic and Surgical Pathology Annual Meeting; 2011 Feb 26; San Antonio, TX.


V. NATIONAL RECOGNITION RECOGNITION

Carole Boudreaux: Reviewer, Ultrastructural Pathology; College of American Pathologists' laboratory inspector, Diagnostic Tissue and Cytology Group, Meridian, Mississippi.

Gary E. Carnahan: College of American Pathologists' inspector (team leader): Washington-St.Tammany Regional Medical Center and Louisiana State University-Bogalusa Laboratory.

Elliot Carter: Associate Counselor, Southern Medical Association; Board of Censors, Mobile County Medical Society.

Andrea G. Kahn: Member, International Union Against Cancer Global Cancer Control Community; College of American Pathologists’ laboratory inspector (team leader): Diagnostic Tissue and Cytology Group, Meridian, Mississippi.

Elizabeth Manci: Director, Alabama Placenta Registry; President-elect, Board of Censors, Mobile County Medical Society; Member, Santa America for Children with Cancer, Autism, or Post-Traumatic Stress Syndrome.


Michael Titford: Editorial Advisory Board: Journal of Histotechnology; Member, Health and Safety Committee, National Society of Histotechnology.

J. Allan Tucker: Member, American Medical Association/Specialty Society Resource-Based Relative Value Scale Update Committee (RUC) (Member, RUC Research Committee and RUC Multispecialty Points of Comparison 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; Treasurer, History of Pathology Society; International Councilor, International Academy of Pathology and Chair of Finance Committee; Member,
Nominating and Awards Committee of Renal Pathology Society; Treasurer, Society for Ultrastructural Pathology; Ambassador, Abstract Review Board Member, Nominating Committee Member, and Finance Committee Member, 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*.

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

The department has been working to better integrate the newly added molecular and cytogenetics laboratories, but saw the departure of Dr. Tian-Jian Chen and Dr. Holly Hobart. Dr. Yuying Wang has been working to keep the molecular area in shape, and Dr. Elliot Carter has assumed the medical directorship of those laboratories. The department is actively searching for a new faculty member in this area, and hopes to advance this testing.

The department’s collaboration with Gulf Regional Pathologists (the Mobile Infirmary pathology group) continues to be very mutually beneficial, and the resident rotation there has been particularly rewarding. The department also continues a long and successful relationship with the Alabama Department of Forensic Sciences, and has performed periodic coverage for the Biloxi Veterans Affairs Hospital for surgical pathology.

Following her highly successful role as program director in the department and outstanding services on the hospital’s graduate medical education committee, Dr. Boudreaux was appointed assistant dean for graduate medical education and the Designated Institutional Official. And following his outstanding success as course director for pathology and co-director for neuroscience as well as innovative ideas for the curriculum committee, Dr. Sosnowski was appointed assistant dean for curriculum integration.

Three residents completed the program this year. Dr. Suman Goel embarked on a surgical pathology fellowship at Hartford Hospital in Hartford, Connecticut. Dr. Sree Rauvla began a surgical pathology fellowship at the University of California, Los Angeles. And Dr. Sonali Ayar also began a surgical pathology fellowship, hers at the University of Massachusetts. The department enjoyed another highly successful recruiting year, with three new residents joining the department: Dr. Dalia Azim from Mansoura University in Egypt (where she was a lecturer), Dr. Diana geli from Western University in Pomona, California, and Dr. Kelly Moses from St. Louis University in St. Louis, Missouri.

Dr. Jeff Sosnowski received the red sash award from the 2011 medical student class. The Betsy D. Bennett award for outstanding teaching in the second year small group by a resident went to Dr. Rock Adams.
The faculty recognition award for excellence in teaching was presented to Dr. Jacek Polski. Ms. Pamela James received the award from the housestaff for outstanding contributions to their educational experience from a staff member. The William Gardner award for an outstanding pathology performance by a graduating medical student went to Lauren Jennifer Platt.
2010-2011
Summary of Scholarly Activities
Department of Pediatrics

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


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III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Benjamin JT. Invited speaker. Molecular mechanisms in bronchopulmonary dysplasia pathogenesis: insight into the role of ureaplasma species. Vanderbilt University Pediatric Research Conference; 2011 May 9; Nashville, TN.

Connelly R. Invited speaker. Health literacy strategies for communication. Texas Children’s Health Plan Quarterly CME Conference Series; 2011 May 5; Houston, TX.

Eval FG. Invited speaker. Survival of very low birth weight infants in Mobile. The Alabama Baby Coalition Task Force Meeting; 2010 Oct 22; Mobile, AL.

Imran H. Invited speaker. Management of sickle cell disease in children. Sickle Cell Counselor/Educator Certification Course, Sickle Cell Association of America, Mobile Chapter; 2010 Dec 9; Mobile, AL.

Kauflers AM. Invited speaker. Potential for a cure. Diabetes Family Camp; 2010 Oct 29; Mobile, AL.

Kauflers AM. Invited speaker. Diabetes complications and how to make dose changes. Diabetes Family Camp; 2010 Oct 30; Mobile, AL.

Kauflers AM. Invited speaker. Potential cures for type 1 diabetes. USA Med School Café, Vial Health, Fitness & Enrichment Center; 2011 Apr 28; Mobile, AL.


Martinez J. Invited speaker. Genetics in medicine: disease prevention. BMD Society, University of South Alabama; 2010 Nov 17; Mobile, AL.

Martinko TM. Invited speaker. Chlamydia – the epidemic. Alabama Chapter, American Academy of Pediatrics Spring Meeting & Pediatric Update; 2011 May 1; Destin, FL.

Martinko TM. Invited speaker. Protecting your child on the internet. University of South Alabama Med School Café; 2011 Sep 24; Mobile, AL.

Preud’Homme D. Invited speaker. Infant formula: well designed or fad diet for infants? American Academy of Pediatrics, Practical Pediatrics CME Course; 2011 May 27; Seattle, WA.

Preud’Homme D. Invited speaker. GER(D) pathology and management: updated guidelines. American Academy of Pediatrics, Practical Pediatrics CME Course; 2011 May 28; Seattle, WA.

Preud’Homme D. Invited speaker. Metabolic syndrome: when to suspect it and diagnose it. American Academy of Pediatrics, Practical Pediatrics CME Course; 2011 May 29; Seattle, WA.

Preud’Homme D. Invited speaker. Obesity and cardiovascular health. Springhill College, Department of Biology; 2010 Nov 16; Mobile, AL.


Siddiqui AH. Invited speaker. Hemolytic anemias. Dow University of Health Sciences; 2011 Feb 10; Karachi, Pakistan.

Swingle H. Invited speaker. What causes autism? USA Med School Café; 2011 Mar 23; Mobile, AL.

Swingle H. Invited speaker. Diagnosing autism: a multidisciplinary approach. Alabama Department of Rehabilitation Services Staff Training Conference; 2011 May 10; Montgomery, AL.


Trimm RF. Invited speaker. Preparing a personal statement for residency application. Section on Medical Students, Residents and Fellowship Trainees, American Academy of Pediatrics National Convention and Exhibition; 2010 Oct 3; San Francisco, CA.
Trimm RF. Invited speaker. Practical tips for approaching the physical examination of children. Section on Medical Students, Residents and Fellowship Trainees, American Academy of Pediatrics National Convention and Exhibition; 2010 Oct 3; San Francisco, CA.

Trimm RF. Invited speaker. Where did all the mentors go? Life after residency/fellowship. American Academy of Pediatrics Committee on Pediatric Education; 2010 Nov 13; Chicago, IL.

Trimm RF, D’sa V, Bridgemohan C. Invited speaker. Teaching developmental-behavioral pediatrics workshop. Society for Developmental and Behavioral Pediatrics Annual Meeting; 2011 Sep 16; San Antonio, TX.

Trimm RF, Mehlenbeck R. Invited speaker. A developmentalist’s guide to preparing for MOC workshop. Society for Developmental and Behavioral Pediatrics Annual Meeting; 2011 Sep 16; San Antonio, TX.

Whitehurst RM Jr. Invited speaker. Methadone and pregnancy outcomes. 3rd Annual Continuing Education Infant Mortality Conference: Community Partners in Action Against Infant Mortality; 2011 Apr 1; Mobile, AL.

Whitehurst RM Jr. Invited speaker. Current concepts in neonatal abstinence syndrome. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 18; Mobile, AL.


Wilson F. Invited speaker. Take control of your future: living with sickle cell disease. Be Sickle Smart Empowerments Seminar, Sickle Cell Disease Association of America; 2010 Oct 23; Orlando, FL.

Wilson F. Invited speaker. Pain management in sickle cell disease. Be Sickle Smart Empowerments Seminar, Sickle Cell Disease Association of America; 2010 Oct 23; Orlando, FL.

Wilson F. Invited speaker. In crisis: consequences of iron overload and sickle cell pain. Eggleston Children’s Hospital at High Spalding; 2011 Jan 27; Atlanta, GA.

Wilson F. Invited speaker. No patient left behind: transitioning sickle cell disease patients from pediatric to adult care. University of Mississippi; 2011 Apr 28; Jackson, MS.

Wilson F. Invited speaker. Take control of your future: living with sickle cell disease. Be Sickle Smart Empowerments Seminar, Sickle Cell Disease Association of New Jersey; 2011 May 7; Newark, NJ.
Wilson F. Invited speaker. Pain management in sickle cell disease. Be Sickle Smart Empowerments Seminar, Sickle Cell Disease Association of New Jersey; 2011 May 7; Newark, NJ.

Wilson F. Invited speaker. Living with sickle cell disease. Be Sickle Smart –Take Control of Your Future; 2011 Jun 18; Baltimore, MD.

Zayek MM, Maertens PM, Trimm RF, Eval FE. Invited speakers. Cerebellar hemorrhagic injury causes global developmental delay but not cerebral palsy in preterm infants. Pediatric Academic Societies Annual Meeting; 2011 May 2; Denver, CO.

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. Abstract Reviewer, Pediatric Academic Societies 2011 PAS/SPR meeting.


Judy Blair: Member, State of Alabama Obesity Task Force (Alabama Department of Public Health). She also served as a Workshop and an Abstract reviewer, as well as a Clinical Vignette Reviewer, Poster Session, for the Southern Society of General Internal Medicine Annual Meeting.

Allison Chung: Member, American Society of Health-System Pharmacists (ASHP); Member, Pharmacists Association of Mobile County (PAMC); Member, American Association of Colleges of Pharmacy (AACP); Member, Pediatric Pharmacy Advocacy Group (PPAG); Member, Alabama Society of Health-System Pharmacists; Member, American College of Clinical Pharmacy – Education and Training PRN (ACCP); Member, ACCP 2012 Programming Committee; Committee Member: Best Pharmaceuticals for Children Act (BPCA) Working Group/National Institute of Child Health and Human Development (NICHD), Washington, DC; Associate Editor, Clinical Medicine Insights: Pediatrics.


Rosina Connelly: Reviewer: Medical Education Online.
LaDonna Crews: Board Member, American Academy of Pediatrics, Alabama Chapter Residency Program Representative.


Benjamin Estrada: Institutional Representative, elected Council Member, Southern Society for Pediatric Research; Institution Representative and Member, Curriculum Task Force, Committee on Medical Student Education in Pediatrics (COMSEP); Reviewer: Infectious Diseases in Clinical Practice, Pediatric Infectious Diseases Journal, MedEdPortal, Pediatrics.

Charles Hamm: Institutional Representative, Vermont Oxford Neonatal Network; Reviewer: Clinical Pediatrics, the Journal of Maternal-Fetal Medicine, Neonatology (formerly Biology of the Neonate).

Druhan Howell: President, Mobile Pediatric Society.

Grace Hundley: Member, Alabama Chapter Governor’s Council, American College of Physicians; Clinical Vignette Abstract Reviewer, medical student poster competition, ACP 2010 National Meeting; Poster Judge, ACP 2011 National Meeting.

Hamayun Imran: Reviewer: Transplant International.

Anne-Marie Kaulfers: Making Sense of Disorders, NBS Medical Consultant Panel, Alabama Newborn Screening Conference, Prattville, AL, August 19, 2011; Member, Alabama Newborn Screening Advisory Committee; Elected to the Board of Directors, Southeastern Diabetes Education Services.

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.

Thomas Martinko: Leader, Drug, Alcohol, and Tobacco Special Interest Group, Society for Adolescent Health and Medicine Annual Meeting, 30 Mar 2011, Seattle, WA; Member, Drug, Alcohol, and Tobacco Committee of the Society for Adolescent Health and Medicine; Fellow, American Academy of Pediatrics; Fellow, Society for Adolescent Health and Medicine.

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

Anand Ponnambalam: Member, Motility Committee of NASPGHAN.
Katrina Roberson-Trammell: Selected and honored by Black Health Magazine as one of the top 25 most influential African American doctors in the Mobile-Pensacola area.

Katherine Savells: Member, Alabama Chapter, American Academy of Pediatrics Breastfeeding Committee.

Hanes M. Swingle: 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; Board of Directors: The Chrysalis Academy; Chair, Diagnostic Clinic Workgroup, AIACC Standards of Practice Committee; Member, Region IV Perinatal Advisory Committee; 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: Chair, Education Committee of the Society of Developmental-Behavioral Pediatrics (SDBP); Chair, DB PREP 2012 Planning Committee Faculty; Member, DB:PREP® An Intensive Review of Developmental-Behavioral Pediatrics; Faculty Member, Pediatric Academic Societies Educational Scholars Program; Member, Pediatric Residency Selection Panel Discussion, Section on Medical Students, Residents and Fellowship Trainees, AAP National Convention and Exhibition; Member, Accreditation Council Graduate Medical Education (ACGME) Pediatric Residency Review Committee; Member, SDBP Program Planning Committee; Member, AAP Committee on Pediatric Education (COPE); Member, Project Team for revision of the Ambulatory Pediatric Association’s Educational Guidelines for Residency Training in General Pediatrics; Ready Services – Health Panel, South Alabama Business Leaders’ Summit on Early Childhood Investment; Career Development Workshop, Southern Regional Meeting, New Orleans, LA; Chair, Topic Symposium: Psychopharmacologic Treatment of Intellectual Disability: Update on Translational Research in Genetic Syndromes, Pediatric Academic Societies Annual Meeting, Denver, CO; Workshop, Teaching Developmental-Behavioral Pediatrics, Society for Developmental and Behavioral Pediatrics Annual Meeting; Workshop, A Developmentalist’s Guide to Preparing for MOC, Society for Developmental and Behavioral Pediatrics Annual Meeting; Co-Director, AAP PediaLink Resident Center (National website for resident completion of ACGME required Individualized Learning Plan [ILP]); Co-Editor, American Academy of Pediatrics Developmental-Behavioral Pediatrics Self-Assessment; Reviewer: Journal of Developmental & Behavioral Pediatrics, Academic Pediatrics, Academic Medicine, Journal of Graduate Medical Education, Pediatrics.

Rosa Vidal: Board of Directors, Ronald McDonald House; Developmental Council, Children’s Hospital.

Felicia Wilson: President, Alabama State Sickle Cell Disease Oversight & Regulatory Commission; Chair, National Advisory Committee for Hemoglobinopathy Trait Education; Member, State of Alabama Newborn Screening Advisory Committee; Co-Chair, Hemoglobinopathy Subcommittee; Member, Alabama Comprehensive Cancer Control Coalition and Member, Prevention, Early Detection Subcommittee.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pediatrics welcomed Dr. Haidee Custodio, a new faculty member in the Division of Pediatric Infectious Diseases who replaces Dr. Mary Mancao. Mr. Howard Holcomb was hired as our new Practice Director to replace Mr. Mack Howell. This past year saw the retirement of Dr. Loran T. Clement, Professor and Chair of the Department of Pediatrics.

Dr. LaDonna Crews and Dr. Ihab Jubran were recognized by the COM students as Distinguished Faculty at the 2011 Honors Convocation. The seventeenth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship was Kimberly Riley Bryan.

Of the pediatric residents completing residency this year, four entered private practice, four entered fellowship training, and one joined the Department as Chief Resident. One of the two graduating Medicine-Pediatrics residents entered private practice and the other entered a hospitalist program. Twelve new first-year residents entered the pediatric residency program, and two first-year residents entered the combined Medicine-Pediatrics residency program. Dr. Jennifer Currie completed her duties as Pediatric Chief Resident, and Dr. Kari Bradham was named Chief Resident for the coming year.

The faculty of the Department of Pediatrics continued active scholarship. There were 12 original articles or book chapters and 39 abstracts published by faculty members of the department.

Clinical operations of the Department of Pediatrics continued to demonstrate strong demand during the past year. Ambulatory visits are projected to reach 50,000 this year, essentially the same as last year. These levels have been achieved while implementing the Electronic Health Record (EHR) in three of our busiest clinics, requiring us to limit appointments during the phase in period. Activities of the in-patient service, neonatal intensive care unit, and pediatric intensive care unit at the USA Children’s and Women’s Hospital remained robust.

Programs comprising the Center for Chronic Diseases in Children have also expanded. These programs are devoted to designing and implementing new approaches for delivering comprehensive healthcare to children who suffer from chronic health disorders such as asthma, diabetes, obesity, autism, HIV/AIDS, and sickle cell disease.
The USA Breathmobile, a novel school-based community outreach program for children with asthma, completed its fifth year. Over 500 children with asthma have been evaluated and treated at 20 elementary, middle, or high schools in this region. Our program is a partner in a national network for the study and development of improved asthma care practices.

Major goals for the coming year include: 1) Continuing adoption of electronic patient management applications that integrate patient care activities, clinical data collection, patient education, and, most importantly, that improve health outcomes; 2) Adaptation of clinical and educational programs to meet new national medical education standards and mandates; and 3) Enhance the regional role and national prominence of the USA Department of Pediatrics as an advocate and resource for efforts that champion the best interests of children. The department will continue to seek productive alliances with others in the community who are dedicated to this goal.
2010-2011
Summary of Scholarly Activities
Department of Pharmacology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


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Cioffi EA, Alvarez DF, Pyakurel S, Cioffi D. Terminal alpha-2,3-linked sialic acids are a critical determinant of pulmonary endothelial barrier integrity. Am J Respir Crit Care Med. 2011 May 1;183:A4177. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aidex.dtl


Ochoa C, Alexeyev M, Frank D, Stevens T. Pseudomonas aerugiNOSa exotoxin Y increases intracellular levels of both cAMP and cGMP in pulmonary microvascular endothelial cells. Am J Respir Crit Care Med. 2011 May 1;183:A4179. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl

O'Neill KDP, Oka M, McMurtry IF. Inhibition of sphingosine kinase attenuates acute hypoxic vasoconstriction in perfused rat lungs. Am J Respir Crit Care Med. 2011 May 1;183:A5496. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


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Stevens T, Nickles J. Passive transfer of anoikis-resistant endothelial cells from culture media. Am J Respir Crit Care Med. 2011 May 1;183:A4196. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


Toba M, Alzoubi A, McMurtry IF, Oka M. Expression of S100a4 is markedly unregulated in the plexiform lesions in a preclinical model of severe pulmonary arterial hypertension. Am J Respir Crit Care Med. 2011 May 1;183:A4968. Available from: http://ajrccm.atsjournals.org/content/vol183/1_MeetingAbstracts/aindex.dtl


III. PUBLISHED BOOKS
IV. INVITED PRESENTATIONS

**Bauer N.** Invited speaker. Microparticles as biomarkers and mediators in PAH. University of Illinois Institute for Personalized Respiratory Medicine; 2011 Jul 27; Chicago, IL.

**Cioffi EA.** Invited speaker. Terminal alpha-2,3-linked sialic acids are a critical determinant of pulmonary endothelial barrier integrity. Participating Investigators Meeting; Consortium for Functional Glycomics 2011, NIH Campus; 2011 Jul 27; Bethesda, MD.

**McMurtry J.** Invited speaker. Recent advances in mechanisms of hypoxic pulmonary vasoconstriction. American Thoracic Society International Conference 2011; 2011 May 17; Denver, CO.


**Schaffer SW.** Invited speaker. Alterations in energy metabolism mediated by taurine deficiency. 12th International Congress on Amino Acids, Peptides and Proteins 2011; 2011 Aug 4; Beijing, China.

**Schaffer SW.** Invited speaker. The role of angiotensin II in pressure-mediated ischemia-reperfusion injury. International Academy of Cardiovascular Sciences 2011; 2011 May 3; Ankara, Turkey.


**Stevens T.** Invited speaker. The *P. aeruginosa* ExoY is an edema factor in acute lung injury. University of Alabama at Birmingham; 2011 Feb 3; Birmingham, AL.

**Stevens T.** Invited speaker. *P. aeruginosa* ExoY is an edema factor in acute lung injury. Rush Medical College; 2011 Mar 9; Chicago, IL.

**Stevens T.** Invited speaker. Functional and molecular heterogeneity of pulmonary endothelial cells. Trans-Atlantic Airway Conference; 2011 Jan 19; Lucerne, Switzerland.

**Zhu B.** Invited speaker. PKA-mediated phosphorylation and activation of cAMP-specific phosphodiesterases in pulmonary endothelial cells. Experimental Biology 2011; 2011 Apr 11; Washington, DC.

**Zhu B.** Invited speaker. Targeting signal compartmentalization and enzyme allostery for new drug development; International Drug Discovery Science and Technology 2010; 2010 Oct 24; Beijing, China.
V. NATIONAL PROFESSIONAL RECOGNITION


Natalie Bauer: Member, American Thoracic Society Programming Committee; Gilead Sciences Research Scholars Program, Pulmonary Arterial Hypertension; American Thoracic Society Thematic Poster Session Facilitator; Reviewer, American Journal of Physiology: Lung Cell and Molecular Biology; Physiological Reviews; Study Section Member, American Lung Association and American Heart Association; and Nominating Committee Member, Gulf Coast Physiological Society.


Stephen W. Schaffer: Editorial Board, Molecular Cellular Biochemistry; Secretary, International Academy of Cardiovascular Sciences, Cardiac Bio BcT2 study section,
American Heart Association Apr and Oct 2011; organizer for 12th International Congress on Amino Acids, Peptides and Proteins, Beijing, China; Editor, *Vascular Pharmacology on Mechanisms of Vascular Dysfunction in Diabetes*.

**Troy Stevens**: Awarded a Method to Extend Research in Time (MERIT) award by the National Institutes of Health. This award could extend his research funding from the NIH’s National Heart, Blood and Lung Institute through 2021. Associate editor: AJP-Lung; Program Project Grant Reviewer: National Institutes of Health; Program Project Grant External Advisor: Medical College of Georgia and University of Pennsylvania; SEPt Grant Reviewer: National Institutes of Health.

**Wiltz W. Wagner, Jr.**: Facilitator, several sessions during American Thoracic Society International Conference; 2011 May 13-18; Denver, CO.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pharmacology hosted visits from several scientists who participated in the Distinguished Scientist Seminar Series: Dr. Michael Jay, Fred N. Eshelman Distinguished Professor, Division of Molecular Pharmaceutics, Center for Nanotechnology in Drug Delivery, Eshelman School of Pharmacy, University of North Carolina at Chapel Hill, presented a seminar entitled “Commercialization of University-Based Research: One Professor’s Sojourn” on Thursday, October 7, 2010. Dr. Nicholas S. Hill, Professor of Medicine Tufts University School of Medicine, Chief, Pulmonary and Critical Care and Sleep Division, Tufts Medical Center, Boston MA, presented a seminar entitled “Serotonin Signaling in Pulmonary Hypertension” on December 16, 2010. Dr. Alan G. Marshall, Robert O. Lawton Professor of Chemistry and Biochemistry, Director, Ion Cyclotron Resonance Program, National High Magnetic Field Laboratory, Florida State University, Tallahassee, FL, presented a seminar entitled “Accurate Mass Measurement: Taking Full Analytical Advantage of Nature’s Isotopic Complexity” on February 17, 2011. Dr. Marie Celeste Simon, Scientific Director and Investigator, Abramson Family Cancer Research Institute, Investigator, Howard Hughes Medical Institute, Professor and Investigator, University of Pennsylvania, School of Medicine, Department of Cell and Developmental Biology/AFCR Philadelphia, PA, presented a seminar entitled “HIFs, Hypoxia, and Tumor Progression” on April 21, 2011.

Five students graduated from the Department of Pharmacology. Dr. Audrey A. Vasauskas’ defense was on October 5, 2010. Her dissertation was entitled “Expression and Storage of Squirrel Monkey Chorionic Gonadotropin in the Pituitary Gland.” Dr. Vasauskas is a Post-Doctoral Fellow in Dr. Donna Cioffi’s lab in the Department of Biochemistry. Dr. Jonathan Scammell was her major professor. Dr. Darla J. Reed’s defense was on October 28, 2010. Her dissertation was entitled “Nuclear Oxidant Stress in Hypoxia.” Dr. Abu-Bakr Al-Mehdi served as her major professor. Dr. Christina Barry McManus’ defense was on March 18, 2011. Her dissertation was entitled “Calcium Entry Through the Store-Operated Calcium Current, Isoc, Disrupts the Spectrin-F-Actin Interaction Inducing Inter-Endothelial Gaps.” Dr. Troy Stevens served as her major professor. Dr. Barry-McManus is working with the American Red Cross in Birmingham,
AL. Dr. Glenda-Para-Bonilla's defense was on May 9, 2011. Her dissertation was entitled "Essential Role of Lactate Dehydrogenase-A (LDH-A) in the Proliferative and Neo-angiogenic Phenotype of Pulmonary Microvascular Endothelial Cells." Dr. Troy Stevens was her major professor. Dr. Wei P. Feinstein's defense was on June 10, 2011. Her dissertation was entitled "Quantitative Assessment of Cellular Mechanisms Contributing to the Localization of cAMP signals." Dr. Thomas Rich was her major professor. Dr. Salina Gairhe graduated in May 2011. Her dissertation was entitled "Myoendothelial Gap Junctional Signaling Regulates Pulmonary Arterial Smooth Muscle Phenotype." Dr. Ivan McMurtry was her major professor. Dr. Gairhe is a Post-Doctoral Fellow in the USA Department of Pharmacology.
2010-2011
Summary of Scholarly Activities
Department of Physiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


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II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Parker JC. Invited speaker. Tracheal liquid insufflation assisted total liquid ventilation. First International Conference on Applied Bionics and Biometrics ICABB-2-10; 2010 Oct 16; Venice, Italy.

Parker JC. Invited speaker. Myosin light chain kinase regulates the surface expression and calcium entry through transient receptor potential vanilloid 4 channels in rat pulmonary microvascular endothelial cells. Experimental Biology 2011; 2011 Apr 14; Washington, DC.

Taylor MS. Invited speaker. New perspectives on the generation, tuning and decoding of Ca\textsuperscript{2+} signals in the vasculature; Colorado State University; 2010 Oct 20; Fort Collins, CO.

Taylor MS. Invited speaker. Generation, tuning and decoding of endothelial Ca\textsuperscript{2+} signals. Smooth Muscle Underground Conference; 2011 Apr 8; Washington, DC.

Yang J. Invited speaker. Identification of new molecular components in GLUT4 clusters in the plasma membrane of adipose cells by MS-based proteomics – a pilot study. NIDDK/NIH; 2010 Nov 8; Bethesda, MD.


V. NATIONAL PROFESSIONAL RECOGNITION

Stephen T. Ballard: Reviewer, American Journal of Physiology, Study Section on Research Development Program, Cystic Fibrosis Foundation; Research Grants Letters of Intent, Cystic Fibrosis Foundation.


James M. Downey: Editorial Board Member, Circulation Research, Journal of Molecular and Cellular Cardiology, Basic Research in Cardiology, Cardiovascular Pharmacology and Therapeutics; Co-organizer of Adenosine Symposium held in conjunction with the American Heart Association Scientific Sessions.


Mary L. Townsley: NHLBI NITM Study Section; Chair, Unified Peer Review Steering Committee, American Heart Association; Editorial Board, *Frontiers in Physiology, Vascular Physiology, Microvascular Research, and Pulmonary Circulation*; Reviewer: *American Journal of Physiology, American Journal of Respiratory and Critical Care Medicine, Circulation Research, Microcirculation, Respiratory Physiology*.

David S. Weber: Cardiovascular Section Trainee Committee; Unified Peer Review Committee “Vascular Biology, Blood Pressure/Regulation” Basic Science 2 American Heart Association; Reviewer, *Circulation Research, American Journal of Physiology, Journal of Molecular and Cellular Cardiology, Microvascular Research, Antioxidants and Redox Signaling*.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Physiology maintained excellent overall extramural funding for 2010-2011. Dr. Thomas Lincoln was awarded a competitive renewal grant from NIH for his work, while Drs. Michael Cohen and Mary Townsley received awards from pharmaceutical companies. In total, the Department of Physiology has over $2.5 million in extramurally funded awards over the past year. Faculty in the Department of Physiology maintained high visibility in local, national and international scientific communities. Several faculty members (Drs. Downey, Parker, Taylor, Townsley and Yang) presented external seminars and invited symposium talks at scientific meetings. Drs. Cohen, Downey, Lincoln and Townsley served on the Editorial Boards of several scientific journals. Dr. Townsley served as Chair for the site visit by an external review team for the BMS Graduate Program. Drs. Lincoln and Townsley conducted a “Careers in Industry” workshop in May 2011. Drs. Kevin Thormeoe with GlaxoSmithKline and Randolph Johnson with Kai Pharmaceuticals, respectively, opined on career opportunities available to graduate students and postdoctoral fellows.

Two graduate students working under the direction of faculty members in the Department of Physiology completed dissertations this past year. Drs. Dana Skarra (Dr. Mark Taylor, Mentor) and Rebecca Torres (Dr. David Weber, Mentor) received their doctorate degrees and are doing postdoctoral training at the University of California, San Diego and Emory University, respectively. Departmental faculty sponsored medical students in the Summer Medical Student Research Program and two students in the Summer Undergraduate Research Program.
Teaching activities continue in the Department of Physiology. Dr. Townsley continued her role as course director for "Statistics and Experimental Design in Biomedical Research" and "Effective Scientific Writing." Dr. Lincoln continued as course director for Medical Physiology and Graduate Physiology Special Topics. Dr. Weber is the Director of the Vascular Biology Graduate Program, a focus area for Basic Medical Sciences. The Physiology faculty continues to be actively involved in the "Fundamentals of Basic Medical Sciences" course offered in the first year. Dr. Mary Townsley continues to serve as the Principal Investigator on the NIH-funded Institutional Training Grant in Lung Biology.
2010-2011
Summary of Scholarly Activities
Department of Psychiatry*

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


*AltaPointe Health System
II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS


Engereris JL. Invited speaker. Combat trauma and posttraumatic stress disorder: historical considerations and current challenges. Mobile Bay Psychiatric Society; 2011 Feb 22; Mobile, AL.

Grenoble S. Invited speaker. Biological depression: a chronic inflammatory disease? Alabama Psychiatric Society Annual Spring Meeting; 2011 Apr 9; Montgomery, AL.


Franks RD. Invited speaker. Psychological effects of the gulf oil spill. Coastal Recovery Commission; 2010 Dec 3; Mobile, AL.

Penaskovic KM. Invited speaker. I wish I knew then what I know now part II: taking over the reins of a psychiatry clerkship. Association of Directors of Medical Student Education in Psychiatry; 2011 Jun 17; Savannah, GA.

Penaskovic KM. Invited speaker. Raising the dead; reviving a clerkship at the University of South Alabama. Association of Directors of Medical Student Education in Psychiatry; 2011 Jun 17; Savannah, GA.


V. NATIONAL PROFESSIONAL RECOGNITION

Kenan Penaskovic, M.D. was given the Devneil Vaidya Faculty Teaching Award by the Association of Directors of Medical Student Education in Psychiatry (ADMSEP) recognizing a promising junior faculty member who is already demonstrating excellence in teaching, mentoring and curricular innovations related to medical student education. ADMSEP is an international organization of psychiatric educators dedicated to the education of medical students in the behavioral sciences and psychiatry.

IV. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

W. Bogan Brooks, M.D. joined AltaPointe Health System in August of 2011. Dr. Brooks has been appointed Clerkship Director of Psychiatry. He recently completed a fellowship in Geriatric Psychiatry at Brown University in Providence, Rhode Island.
Bayani Abordo, M.D., James Hart, D.O., and Kenan Penaskovic, M.D. all received the Red Sash Award from the University of South Alabama College of Medicine's graduating class of 2011.

The Department is continuing its involvement in local and district branch activities of the American Psychiatric Association. In 2011, Sandra Parker, M.D. was elected President of the Mobile Bay Psychiatric Society. On the state level, Severin Grenoble, M.D., PGY4 and Chief Resident was elected Member-in-Training Representative and Dr. Parker was appointed Membership Coordinator of the Alabama Psychiatric Physicians Association Executive Council. J. Luke Engeriser, M.D. continues to serve as Treasurer of the Executive Council.

Also, at the State level, Ronald Franks, M.D. continues to serve as Secretary/Treasurer of the Board of the Medical Association of the State of Alabama. At the national level he continues as Vice-Chair of the Committee to revise the MCAT exam and has given several presentations to national groups on behalf of the committee.

Overall the department has seen continued growth in the number of students electing to pursue a career in psychiatry from the USA COM. The faculty substantially increased their scholarly activity and presentations at regional and national meetings during this academic year.
2010-2011
Summary of Scholarly Activities
Department of Radiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Brogdon BG. Invited speaker. Forensic radiology and radiography: historical perspective current status and future challenges. RSNA 2010, 96th Scientific Assembly and Annual Meeting; 2010 Dec 1; Chicago, IL.

Brogdon BG. Invited speaker. Expensive errors. The Southern Radiological Conference 2011; 2011 Jan 29; Point Clear, AL.

Khullar S. Invited speaker. Nuclear medicine in CNS imaging. The Southern Radiological Conference 2011; 2011 Jan 28; Point Clear, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Byron G. Brogdon is a member of the Advisory Board of Viroscopy 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 Awards Committee and 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. Dr. Brogdon served as a moderator for the Senior Section Lecture Series at the AARS 2011. He is an evaluator of graduate degree thesis for the University of Western Australia. Dr. Brogdon has been named the Expert Consultant to the Minister of Health in Singapore. 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 the featured speaker at The International Association of Forensic Radiographers in Manchester, GB. 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. Jeffrey C. Brandon** who was serving as Acting Chairman has been appointed Chairman, department of Radiology.

**Dr. Byron G. Brogdon (Emeritus)** 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. Donald E. Herbert (Emeritus)** serves as a member of the Biological Effects Subcommittee of the American Association of Physicists in Medicine. He continues to serve as a reviewer for the *Journal Medical Physics*. He has been invited to prepare another chapter on Modern Statistical Modeling for the monograph; Advances in Medical Physics 2012. Dr. Herbert is also working on a paper entitled *Misclassification of Pulmonary Hypertension in adults with Sickle Hemoglobinopathies using Doppler-Echocardiography*. Dr. Herbert continues to revise and expand his series of lectures on medical statistics: Models in Medicine. He continues to work on a monograph, *An Introduction to the Strange and Violent World of Nonlinear Dynamics*, and a series of tutorial papers on: Systems Biology: A New Biology for Medicine, Estimation and Inference on Heterogeneous Data: The EM and MCMC Methods and An Introduction to Evidence-based Statistics: Bernard's Dilemma, 1 Stein's Paradox and Bayes' Theorem. 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 2009 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. She was elected Secretary for College Senate Faculty.

Dr. Brad A. Steffler is in the process of writing part of a chapter on Diagnostic Radiology, for a textbook on Neurological Physical Therapy with Dr. Dennis Fell who is the Chairman of the Physical Therapy Department at USA. He continues to build and improve the Interventional Pain Clinic Practice at the University. Dr. Steffler has been appointed an Associate Member of The Mitchell Cancer Institute.
2010-2011
Summary of Scholarly Activities
Department of Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III: PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Brevard SB. Invited speaker. Analysis of disaster response plans and the aftermath of hurricane Katrina: lessons learned from a level I trauma center. HealthSouth Annual Medical Director's Meeting; 2010 Dec 6; New Orleans, LA.

Brevard SB. Invited speaker. Charity Hospital during Katrina. A look back to one hospital's response. University of South Alabama College of Medicine Medical Alumni Association Annual Meeting; 2011 Jun 6; Orange Beach, AL.

Brevard SB. Invited speaker. Charity Hospital/New Orleans during Hurricane Katrina. 2nd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2011 Mar 24; Daphne, AL.

Contreras CM. Invited speaker. Liver resection. USA Oncology Outlook Conference; 2011 May 7; Point Clear, AL.

Contreras CM. Invited speaker. Pancreatic adenocarcinoma. Dothan Medical Society Lecture; 2011 Jul 14; Dothan, AL.


Contreras CM. Invited speaker. Pancreatic cancer. Nutritional/Parenteral Home Care (NPHC) Invited Lecture Series; 2011 Feb 9; Mobile, AL.

Contreras CM. Invited speaker. Surgical oncology as it relates to family practice physicians. Alabama Academy of Family Physicians Annual Convention; 2011 Jun 23; Sandestin, FL.

Gandy RE. Invited speaker. History of medicine. DREAM Program for Underrepresented Minorities, USA Medical Sciences Building; 2011 Jul 15; Mobile, AL.

Gonzalez RP. Invited speaker. Current trends in acute trauma resuscitation. 10th Annual Mississippi Gulf Coast Trauma Symposium; 2011 Apr 12; Biloxi, MS.

Gonzalez RP. Invited speaker. Management of penetrating injuries. 10th Annual Mississippi Gulf Coast Trauma Symposium; 2011 Apr 12; Biloxi, MS.

Gonzalez RP. Invited speaker. Screening and diagnosis of cervical spine injury. 2nd Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2011 Mar 24; Daphne, AL.

Hodge JS. Invited speaker. University of South Alabama Chief Residents Reception, Bienville Club; 2011 Jun 24; Mobile, AL.

Hollands CM. Invited speaker. Medical student simulation-based skills curriculum module. American College of Surgeons (ACS)/Association of Surgical Educators (ASE), Clinical Congress of the American College of Surgeons; 2010 Oct 3; Washington, DC.

Luterman A. Invited speaker. Thermal injury. 2nd Annual Greater Gulf Coast Trauma and Acute Care Symposium; 2011 Mar 24; Mobile, AL.

Luterman A. Invited speaker. Update on thermal injuries current guidelines. Sacred Heart Hospital Trauma Center Grand Rounds; 2011 Jan 24; Pensacola FL.

Luterman A. Invited speaker. Update on treatment of burn injuries. Baptist Hospital Trauma Center Grand Rounds; 2010 Oct 15; Pensacola FL.

Richards WQ. Invited speaker. Video revision of strictured gastric sleeve to subtotal gastrectomy. 2011 Annual Scientific Meeting, Southeastern Surgical Congress; 2011 Feb 14; Chattanooga, TN.

Richards WQ. Invited speaker. Best treatment for Barrett’s esophagus in surgery. Minimally Invasive Surgery Symposium Foregut Sessions; 2011 Feb 22; Salt Lake City, UT.

Richards WQ. Invited speaker. Collis nissen for short esophagus. Minimally Invasive Surgery Symposium Foregut Sessions; 2011 Feb 22; Salt Lake City, UT.

Richards WQ. Invited speaker. GERD and paraesophageal hernia. Society of Gastrointestinal and Endoscopic Surgeons Session; 2011 Apr 2; San Antonio, TX.

Richards WQ. Invited speaker. Minimally invasive approach to Barrett’s esophageal cancer. Oncology Outlook 2011; 2011 May 7; Fairhope, AL.
Richards WQ. Invited speaker. Surgical approach to complications/redo surgery. Minimally Invasive Surgery Symposium Foregut Sessions; 2011 Feb 23; Salt Lake City, UT.

Rodning CB. Invited speaker. Surgical profession. Reception, Chief Residents, Department of Surgery, College of Medicine and Medical Center, University of South Alabama, Convention Center; 2011 Jun 24; Mobile, AL.

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.


D. Lynn Dyess: Member, Breast Committee for the National Surgical Adjuvant Breast and Bowel Project (NASBP); State Chair, American College of Surgeons Commission on Cancer (term ended January 2011); Board Member, American College of Surgeons (term ended January 2011).

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

Richard P. Gonzalez: Chair, Gulf Region State Trauma Advisory Council, Mobile, AL, 2008-present; Member, Alabama State Trauma Advisory Council, Montgomery, AL, 2009-present; Member, Committee on Trauma Care, Medical Association of State of Alabama, Montgomery, AL, 2005-present; Member, Advisory Board, University of Alabama Birmingham Transportation Center, Birmingham, AL, 2006-present; Reviewer: Journal of Trauma, Journal of American College of Surgeons, Journal of Surgical Education, American Surgeon.

Celeste M. Hollands: Editorial Boards: American Journal of Surgery, Journal of Advanced Laparoscopic and Advanced Surgical Techniques; Reviewer: Ad Hoc; Council Member and Resource Editor, Association of Women Surgeons and Career Development; Senior Member, American College of Surgeons (ACS) Medical Student Committee; CME Chair, International Pediatric Endosurgery Group (IPEG), Publication Committee, Emerging Technology Committee; Member, SAGES Pediatric Liaison Committee, Guidelines Committee, Resident Education Committee; Moderator, American College of Surgeons (ACS) Medical Student Program (11/10-Reception with specialty surgeons), (2010 Oct 4; Washington, DC; Co-Moderator, The Residency Application, Surgery Interest Groups (10/06/10) Washington, DC; Invited Course
Faculty, 1st Year Pediatric Surgery Fellows Minimally Invasive Surgery (MIS) Course (2010 Nov 12-13; Buffalo, NY), International Pediatric Endosurgery Group Annual International Meeting (2011 May 3-7; Prague, Czech Republic).


Paul F. Rider: Member, American Board of Colon and Rectal Surgery.

(2009-2010), President (2010-2011), Immediate Past President (2011-2012), Member, Association for Surgical Education; Counsellor, College of Counselors, District 1, Medical Association/State of Alabama – Member, Reference Committee (2011); Recertification – General Surgery, American Board of Surgery, Inc. (2011-2021); Board of Directors – Mobile (Eichold-Heustis) Medical Museum.

Frederick M. Silver: Member, Alabama 3 Disaster Medical Systems Team (DMAT).

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. This past year we saw a record number (6) of surgical faculty receive the Scarlet Sash Award for their educational efforts by the medical students. The Department has also amplified its educational opportunities by creating an Acting Intern position in the Gastrointestinal/Colorectal Surgery rotation.

Scholarly Efforts – The Department has increased productivity in scholarly achievements, particularly in peer-reviewed publications as well as submissions to local and regional surgical societies. Faculty have held positions of leadership in the Alabama Chapter of the American College of Surgeons as well as in the Mobile Medical Society. Additionally, very successfully we have put together the Third Annual Trauma Symposium which was a rousing success. Clinical research grants were funded by the Society of Gastrointestinal and Endoscopic Surgeons and by the American Society of Metabolic and Bariatric Surgeons.

Service – The Department continues to deliver excellent clinical service and has amplified activities in several areas. There have been several key recruits to Surgical Oncology, Trauma/Surgical Critical Care, Laparoscopic/Robotic and Bariatric Surgery. In addition to the very busy Acute Care Surgery, Level I Trauma Center, and Burn Center, the Department has added surgical expertise in elective surgical procedures particularly complex colorectal, surgical oncology, and plastic surgery with recent recruitments. The Department has also expanded its coverage and now has one faculty member working with resident staff at Providence Hospital. Our faculty contribute to the Greater Mobile Community through individual services within organizations (faith-based, not-for-profit) and individual initiatives.
2010-2011
Summary of Scholarly Activities
Department of Biomedical Library

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

Burnham JF, Fell DW, Castjohn DM, Dockery JM, Smith JA. Determining how physical therapists get their information to support clinical practice. Medical Library Association Annual Meeting; 2011 May 13-18; Minneapolis, MN. Abstract no. PS2-58.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

**Burnham JF.** Invited speaker. Health literacy resources and library services for nurses. Alabama State Nurses Association; 2010 Oct 1; Mobile, AL.

**Burnham JF.** Invited speaker. Keys to cardiovascular health. Mt. Hebron Church Ministries; 2011 Feb 23; Mobile, AL.

**Clanton C.** Invited speaker. The EBM/EBP practitioner. Health Informatics, LS 590, University of Alabama School of Information and Library Science; 2011 Apr 20. Online.

**Clanton C.** Invited speaker. Embedded librarian in two nurse-managed clinics: promoting better communication between healthcare professionals and patients. Sigma Theta Tau Zeta Gamma Chapter Scholar’s Conference; 2011 May 12; Mobile, AL.

**Wright AL.** Invited speaker. Apps for getting things done. University of South Alabama Baldwin County Campus Social Media Conference; 2011 Jan 2; Fairhope, AL.

**Wright AL.** Invited speaker. Social media resources. University of South Alabama Baldwin County Campus Social Media Conference; 2011 Aug 12; Fairhope, AL.

V. NATIONAL PROFESSIONAL RECOGNITION


Judy Burnham completed her term as a member of the Medical Library Association Board and Chair, Section Council/Medical Library Association. She serves on the Medical Library Association Estelle Brodman Academic Librarian of the Year Award Jury. She is a Research Mentor for the Southern Chapter/Medical Library Association and serves on the Honors and Awards Committee for Southern Chapter/Medical Library Association. The poster, Determining How Physical Therapists Get Their Information to Support Clinical Practice, won the 1st Place Research Poster Award at the 2010 Southern Chapter/Medical Library Association meeting. Judy is a Distinguished member of the Academy of Health Information Professionals.

Clista Clanton completed her term as Chair of the Medical Library Association Credentialing Committee and is a member of the Bylaws Committee, Southern Chapter/Medical Library Association. She was Principle Investigator, for the project, Promoting Clearer Communication between Health Professionals and Patients and received an NLM/SEA Outreach Award to fund the project.
She received 2011 Sigma Theta Tau, Zeta Gamma Chapter, Excellence in the Advancement of Nursing Scholarship Award. Clista is a Senior member of the Academy of Health Information Professionals.

Trey Lemley is a member of the Louise Darling Medal Jury/Medical Library Association. He serves as Past President/Chair of the Nominating Committee of the Alabama Health Libraries Association and completed his term on the Research Committee of Southern Chapter/Medical Library Association. Trey is a Member of the Academy of Health Information Professionals.

Jie Li is Chair of the Health Libraries Partnership Committee of International Cooperation Section of the Medical Library Association. She is also Chair of the Emergency Preparedness Committee, Alabama Health Libraries Association and a member of the Emergency Preparedness Committee of the Regional Advisory Committee of the National Network of the Libraries of Medicine (NNLM) Southeast-Atlantic Region (SE/A). In this role she attended a 1.5 day symposium at the National Library of Medicine, with funding from the National Network of Libraries of Medicine/Southeast Atlantic Region. She serves on the Online Content Committee for the Network of Alabama Academic Libraries. Jie is a Distinguished member of the Academy of Health Information Professionals.

Justin Robertson is a member of the Public Relations Committee, Southern Chapter/Medical Library Association and serves on the Editorial Board, Journal of Electronic Resources in Medical Libraries (Haworth Press). He also served on the Consortium of Southern Biomedical Libraries Nominating Committee. For Health InfoNet, Justin serves as a Co-State Administrator, Health InfoNet/Go Local Expansion Project, a member of the Advisory Board Committee and a member of the Education Committee, and Standards Committee, Justin is a Senior member of the Academy of Health Information Professionals.

Geneva Staggs is a Distinguished Member, Academy of Health Information Professionals.

Andrea Wright completed her term on the Medical Library Association 2011 National Program Committee and serves as Member-at-Large for the Alabama Health Libraries Association. She is a member of the Academy of Health Information Professionals.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Services
Two librarians continue to attend committee meetings at both the Medical Center and Children’s and Women’s Hospital. New C&W Committees were added this year. A librarian continues to attend the Graduate Medical Education Committee and another attends the hospital management meetings. A librarian continues to serve on the COM Curriculum Committee. She also participated in the COM curriculum revision and the Biomedical Library is responsible for populating the wiki with the information for the
Medical Informatics Curriculum Thread. A Biomedical Library librarian serves on the COM Continuing Medical Education Committee. Another Biomedical Library librarian serves on Faculty Senate, on the University Library Committee and as President of Libraries Forum. Training is taking place for the University's new content management system, Sakai. A Medical Informatics Project Site has been added. Additionally, Andrea Wright and Clista Clanton have been named Co-Contacts for the COM for Sakai. Andrea Wright received training on the new COM web page. Librarians have received training on the COM Tegrity lecture capture software.

Biomedical Library Librarians provided orientation for new medical students. They also prepared online modules for evidence-based medicine and introduction to medical informatics for the COM I students. Additional modules in the Medical Informatics curriculum have been developed for COM II students. Library instruction was also provided for College of Nursing and College of Allied Health Profession students as well as a session on evidence-based practice for the College of Nursing faculty. Instruction was also held on health literacy, health disparities and designing brochures using open source software.

Librarians from USA Biomedical Library, along with librarians from Lister Hill Library for the Health Sciences /University of Alabama at Birmingham, created a web page that can be used to access online resources following a disaster with a power outage at the University, ALHeLA911.org. Additionally, the Biomedical Library signed a Memorandum of Understanding with Lister Hill Library to mutually provide resources in case of a disaster at either site.

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

Facility
Approval was given to develop a student break area at the campus site of the Biomedical Library. Construction will be completed in September.

Outreach
Biomedical Library librarians participated in the USA Benefits Fair and exhibited at various campus sites during National Medical Libraries month. 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 Health Clinic, providing instruction on health literacy. Assistance was also provided for a research project at the Bay Area Women's Coalition. The Biomedical Library sponsored the Campus Community Day event in April 2011, partnering with other campus groups that provided information on preparing and recovering from disasters, emergency preparedness and campus safety and security.
Biomedical Library librarians exhibited at the following meetings: Alabama Library Association, Alabama Chapter/American Physical Therapy Association, Alabama Pharmacy Association, Alabama Family Physicians, and Medical Association of the State of Alabama. Each exhibit focused on the resources provided by the National Library of Medicine as well as other quality resources. Librarians also participated in the Health Career Fair sponsored by the Mobile Chamber of Commerce.

The Biomedical Library continued to participate in the Center for Healthy Communities activities including the Health Disparities Research Group, and the Community Health Advocates. To complete the Empowering Health Ministry Leaders project, three health fairs were planned and held. One included a presentation on health literacy by a Biomedical Library librarian. A survey of participants in the Health Ministry Leaders project indicated a positive impact of the venture. A wiki class and a class on using Open Office to design brochures and flyers were held for health ministry leaders and Community Health Advocates.

Resources

The following e-book collections were added this year:

- 377 Springer ebook titles were added via NAAL including subjects Biomedical and Life Science, Behavioral Sciences (publication year 2011).
- 4853 Springer ebooks titles were added via University Library including subjects Medicine, Biomedical and Life Science, Behavioral Sciences (publication years 2005-2010).
- 7825 Ebrary ebooks titles were added via University Library including medicine and life science titles.
- 34 titles were added from McGraw-Hill titles.

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.

Biomedical librarians continue to search for an adequate tool that will search e-books and other electronic resources all at one time. Several tools have been reviewed. This is a need shared by the University Library and when a tool is identified it will be purchased in conjunction with the University Library.

Hospital pharmacists asked the library to consider the purchase of Lexicomp. This drug resource was compared to the one we already subscribe to, Clinical Pharmacology. After the evaluation, Clinical Pharmacology was retained. An evaluation of nursing resources was also conducted and a decision was made to cancel a resource from the the Joanna Briggs Institute and subscribe to the Nursing Reference Center instead.

The collection assessment project is continuing with outdated resources being withdrawn from the collection.
Personnel
Boling Holt, Management Systems Specialist I, and Beverly Rossini, Outreach Librarian both resigned during the year. Because of budget reduction, neither of these positions will be filled at this time.

Miscellaneous
The Biomedical Library participated in a nationwide study that surveyed nurses, physicians and residents surveyed on the value of medical library information and services in patient care. Additionally, the College of Nursing faculty and the Doctor of Nursing Practice students were surveyed to determine library satisfaction.

A Planning Retreat was held in August to develop departmental goals for 2011-2012.
2010-2011
Summary of Activities
USA Center for Lung Biology

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 October of 2010 and again in March of 2011. 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 2011 (http://www.usahealthsystem.com/CLBNewsletter).

We have updated our CLB website along with the College of Medicine. We introduced a Meet the Professor series that 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 first interview was with Dr. Wiltz Wagner. Come meet Dr. Wagner at http://www.usahealthsystem.com/MeettheProfessor.

A new CLB Running and Walking Club was introduced on our website. The Running and Walking Club provides a coordinated mechanism for CLB members to share in their active lifestyles. We run and walk at area-sponsored 5K, 10K, half marathon and marathon events. The list of these events for the 2011-2012 season are shown. Workout schedules are provided online in the Training Schedule section. The workout schedule is adaptable for any individual's goals. In addition, we provide a summary of recent scientific articles that highlight important health issues in our Science for Health section. Our first article on Exercise and Cardiovascular Health is shown below. Visit our Running and Walking Club at http://www.usahealthsystem.com/RunningandWalkingClub.

Exercise and Cardiovascular Health

"...Our nation is faced with an increasing health threat called the metabolic syndrome. Metabolic syndrome is characterized by a constellation of risk factors that altogether increase one's risk for cardiovascular disease, including coronary
artery disease, stroke, and type II diabetes. Abdominal weight gain and insulin resistance are two key features of metabolic syndrome. Additional risks include aging, sedentary lifestyle, and genetic predisposition. The activity of one's lifestyle and genetic predisposition(s) has long been known to impact health, issues addressed experimentally in animals. Laboratory rats were identified by their aerobic capacity. Low aerobic capacity animals were bred as one group, and high aerobic capacity animals were bred as a separate group. After 11 generations of breeding, the discrepancy in aerobic capacity among groups was exaggerated, and low aerobic capacity animals displayed an increase in the biological markers characteristic of metabolic syndrome. Exercise training improved aerobic capacity in both groups, but this improvement was greatest in the high aerobic capacity animals. These results demonstrate that cardiovascular risk can be determined by one's genetic predisposition. But can one impact this risk by behavior modification?

The findings of Wisloff et al. show that exercise reduces cardiovascular risk. Along with aerobic training, Mozaffarian and colleagues teach us that diet is an important factor in managing the weight gain that makes one susceptible to developing metabolic syndrome. In men and women studied prospectively, the consumption of food items such as potato chips, potatoes, sugar-sweetened drinks, unprocessed red meats, and processed meats were associated with weight gain, whereas whole grains, fruits, vegetables, and yogurt were not. The take home message from these two studies is that balancing an active lifestyle with a disciplined, healthy diet will help to mitigate the risk of developing metabolic syndrome.

References:

We introduced a new Endothelial Cell Journal Club. The Endothelial Cell Journal Club represents a study group of scientists dedicated to advancing our understanding of endothelial cell biology. Presentations will be informal, as round table discussions; therefore, it is expected that participants have read the paper and can contribute. Attendance is open to any and all interested participants, including faculty, staff and students at all levels. For students, this journal club is not a part of your formal curriculum requirements. Come enjoy the open forum (http://www.usahealthsystem.com/EndothelialCellJournalClub).

Our administrative office is located in the Medical Sciences Building in Room 3340 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. Our 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.

The CLB hosted several seminars during the past year. Our first guest, Dr. Joseph P. Mizgerd, Professor of Medicine, Microbiology, and Biochemistry, and Director, Pulmonary Center at Boston University School of Medicine presented Transcriptional and post-transcriptional regulation of innate immunity during infection. Dr. Mizgerd also gave a CLB/Pulmonary Conference on campus entitled Innate immunity in the pneumonic lung.

Our Critical Care Conference series in conjunction with the Pulmonary Division hosted five speakers. This conference focuses on translational research and acute lung injury, and is held monthly on Fridays at 2:15 pm. Dr. David M. Guidot, Jeffrey R. Pine Endowed Professor of Medicine, Director, Division of Pulmonary, Allergy & Critical Care Medicine at Emory University presented Zinc and Nrf2: Getting to the source of redox stress in the alcoholic lung. Dr. Guidot also gave a Medical Grand Rounds presentation at USAMC entitled The Alcoholic Lung: A Physician's Perspective. Dr. Steven M. Dudek, Associate Professor of Medicine at University of Illinois at Chicago presented Cortactin Regulates the Endothelial Cytoskeleton and Pulmonary Vascular Permeability. Dr. Dudek also gave a Medical Grand Rounds presentation at USAMC entitled Evolving Therapies for the Acute Respiratory Distress Syndrome. Dr. Solomon F. Ofori-Acquah, Assistant Professor of Pediatrics, Director, Center for Endothelial Biology at Emory University School of Medicine presented Molecular pathology of acute lung injury in hemolytic disorders. Dr. Jean-Francois Pittet, Professor, Vice Chair Department of Anesthesiology Professor, Departments of Surgery and Cell Biology, Director, Division of Critical Care and Perioperative Medicine at University of Alabama at Birmingham presented Modulation of P. aeruginosa-induced lung injury by coagulation proteins.

Extramural Funding

In the past year, CLB principal investigators submitted 37 grant applications to the American Heart Association (AHA), National Institutes of Health (NIH), and other foundations/companies. To date, eleven of these applications were awarded generating over $3.6 million in new revenue over the next five years. This represents a 39% success rate in grant submission for this fiscal year with 9 applications pending.
The Center received six awards from NIH. Dr. Songwei Wu received a R01 Research Grant and Drs. Masahiko Oka and Mykhaylo Ruchko received R21 Exploratory and Development awards. Dr. Karen Fagan received an R13 Conference Grant to sponsor the 2011 Grover Conference on Risk Factors in Pulmonary Hypertension. Dr. Natalie Bauer received an R03 Small Research grant, and Cristhiaan Ochoa received an F31 National Research Service Predoctoral Fellowship. Three awards were received from the American Heart Association. Dr. Salina Gaihe received a Postdoctoral Fellowship, and Drs. Natalie Bauer and Sarah Sayner received a Research Grant in Aid awards. Our last two awards were received from the pharmaceutical industry. Dr. Karen Fagan received a focus grant from Bayer Schering Pharma and Dr. Ivan McMurtry received a Pfizer research award.

Education

During this academic year, 18 predoctoral trainees were affiliated with the Lung Biology track and the CLB. Of this number, 4 defended their dissertation research (Drs. Glenda Bonilla, Salina Gaihe, Christina Barry McManus, and Darla Reed). The CLB’s T32 on Cell Signaling and Lung Pathobiology currently is in its 8th year of funding. The T32 continues to support 6 predoctoral trainees and 4 short term summer research trainees. In this academic year, 2 CLB trainees held individual predoctoral fellowships from the American Heart Association (David Clark and Glenda Bonilla) and 1 trainee (Cristhiaan Ochoa) was just awarded an individual predoctoral fellowship (F31) from the NIH.

With respect to the predoctoral curriculum in lung biology, we have reorganized the course in Lung Biology and have instituted new active learning elements. The special topics course focused on hands-on skills relevant to understanding structure-function relationships in lung was offered for the 2nd year, with the addition of a new segment on pulmonary function testing.

Predoctoral trainees in the CLB authored two new articles in the CLB “Did you know?” series during this past year: Artificial lung (Cristhiaan Ochoa); Tapeworms and lung disease (Alicia Waggoner). These articles can be obtained from the “Did you know?” archives at: http://www.usahealthsystem.com/did-you-know. This series, now in its sixth year, provides trainees in the Center for Lung Biology the opportunity to author an historical perspective reviewing influential discoveries that led to the modern understanding of pulmonary and critical care medicine. Further, as the trainees work with faculty on the Editorial Board, they gain experience in the peer review and editorial processes.

Faculty affiliated with the CLB hosted 14 medical students, Master’s students or undergraduates for summer research. Of this group, 3 medical students and a Master’s student were supported as short term trainees through the CLB T32 grant.

The NIH-funded T32 training grant on Cell Signaling and Lung Pathobiology, is directed by Dr. Mary Townsley. 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 and engineering master’s students who apply for summer research positions in the CLB. A summary of outcomes for doctoral trainees in the CLB is noted in the table below.
<table>
<thead>
<tr>
<th>Summary of Outcomes:</th>
<th>Trainees with CLB Faculty</th>
<th>Trainees in Lung Biology Track</th>
<th>T32 Trainees</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Apr 2004- end FY2010)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total trainees enrolled</td>
<td>37</td>
<td>25</td>
<td>12</td>
</tr>
<tr>
<td>US citizen/permanent resident</td>
<td>28</td>
<td>17</td>
<td>12</td>
</tr>
<tr>
<td>Under-represented minorities</td>
<td>8</td>
<td>7</td>
<td>6</td>
</tr>
<tr>
<td>Individual extramural fellowships</td>
<td>8</td>
<td>6</td>
<td>2</td>
</tr>
<tr>
<td>Trainees completing PhD</td>
<td>9</td>
<td>7</td>
<td>3</td>
</tr>
<tr>
<td>Alumni active in academia and/or research careers</td>
<td>6 (66%)</td>
<td>5 (71%)</td>
<td>2 (66%)</td>
</tr>
</tbody>
</table>
2010-2011
Summary of Activities
Center for Healthy Communities

Introduction
The USA Board of Trustees approved 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 and has achieved local, regional and national recognition by promoting education, research and public service to targeted communities.

The primary activities of the Center are under the umbrella of a Center of Excellence P-20 Grant. The bulk of the Center's community outreach programs are now funded by this 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 provided brief summaries of other research projects advanced by the research core.

Title: Broad-based collaborative on minority health and health disparities
Grant #: 1P20 MD002314
Reporting Period May 1, 2010 to May 31, 2011

OVERALL SUMMARY

A. Specific Aims: The overall goal of the University of South Alabama Center for Healthy Communities (CHC) Center of Excellence (COE) is to utilize a broad-based collaborative and multidisciplinary effort to address health disparities within the University of South Alabama (USA) service area. In year four of the P-20 grant we have focused on sustaining programs and building relationships within our service area. We continue to take an approach based on community based participatory research principles. As such, our relationships with our community partners have been strengthened and we continue to include those partners in decisions regarding our future plans.

B. Studies and Results: Details of the activities of the Administrative, Community Engagement, Mentoring and Training, and Research Cores detailed in the individual reports of each core. However, we would like to highlight some other accomplishments here.

The leadership of the COE has remained intact with all core leaders maintaining their roles. We have our core leaders meetings where we continue our discussions on the science of our approaches and exciting new initiatives that will address our objectives. The links between cores efficient use of resources, discovery of new partners, and facilitate greater involvement of the community in our research enterprise.
The Community Engagement Core strengthened our Community Health Advocates (CHAs) program. CHA initiated projects focus on previously identified areas of priority jointly determined between investigators and community members. Our CHAs have represented our Center in academic meetings focusing on linkages between community and academia. From these meetings we discovered that our program is unique in its approach and has matured beyond most other programs with similar objectives. We continue our partnership of providing African American churches with a web-based program that facilitates activities of health ministries and allows for a tailored electronic record of health information. The pipeline programs of the Community Engagement Core continue with the successful recruitment and retention of junior high and high school students. We have maintained relationships with several of our students who are now in college and continue their advancement toward health careers. We have continued our partnership with the College of Education where we co-sponsor a program for 3rd through 5th grade students to enhance math, science and reading skills. These students come from the communities of which the COE focuses. We have initiated a program to address childhood obesity, (We Run This City), that we intend to be an annual event that will eventually be self-supporting.

The Research Training and Mentoring Core provided 6 rising college sophomores, who were part of our pipeline programs while in high school, with research experience in the summer of 2010. We are identifying mentors to provide a similar experience for more students this summer. Illustrating linkages between cores, we use investigators with strong linkages to our Research Core to provide these opportunities for students coming from our pipeline programs.

The Research Core has maintained a full portfolio of projects. The Research Core has continued monitoring of all research programs, and core leadership meets with research project PIs. Lead and co-investigators of our research projects have presented updates of their work at Health Disparities Research Group (HDRG) meetings and they are active members of the HDRG. The HDRG has continued its momentum and has worked on original projects with community based participatory research themes. A novel concept of research apprenticeship has been used in one of the projects. This approach is based on a hypothesis that members of health disparate communities will be more likely to participate in clinical research of importance to them if they have a better understanding of research. Implementation of this project has strengthened the connection between the community, Community Engagement Core, and research core.

C. Significance: We work hard to eliminate health disparities in our region. The COE award has been instrumental in enhancing the role of the Center for Healthy Communities (CHC) as a leader and resource in the fight against health disparities along the Gulf Coast. The community based participatory research approach has guided development of our research portfolio, strengthening our ties to the community, and our effectiveness in meeting our goals.

D. Plans: Plans for each core will be outlined in each individual report. Major initiatives for year 5 include the following:

a) We will continue our CHA program. In year 5 of the grant we will continue to engage CHAs in decisions as to what programs we will pursue. We will continue our CHA initiated projects and our partnerships with faith based institutions. We will expand the youth CHA
program and work to develop an intergenerational program where youth and adult CHAs can mutually benefit from each other’s experiences.
b) We will continue our information dissemination via a variety of mechanisms – enhanced website usefulness, newsletter, and sharing of results of CHA initiated projects.
c) We will continue to support our portfolio of research projects and will implement new pilot research projects that will hopefully lead to larger funded initiatives.
d) The students in the academic pipeline will be encouraged to remain disciplined and committed students.
e) We will identify new opportunities for members of HDRG to collaborate in scientific and outreach efforts to reduce health disparities.

E. Publications:


F. Abstracts/Presentations


Hudson K. How do you do it? Methodological questions, challenges and ideas in researching health disparities. 36th Annual Meetings of The Sociological Association; 2010 Oct 15; Baton Rouge, LA.


G. Challenges: We remain challenged in our ability to response to the many requests we get for partnerships, evaluation of projects, and collaboration or leadership on new grant opportunities. These opportunities come to us as a result of our COE funding that has established us as an important community resource for addressing health disparities. We will continue to work to meet the challenge of answering our community’s calls. Many individuals and organizations
that work with us do so voluntarily, and, as a result, there is great variability in the time they have available to work on these projects. We remain dedicated to keeping these partners engaged on our objective of eliminating health disparities.

**Reports from Individual Cores**

**Administrative Core**

**A. Specific Aims:** The aims of the Administrative Core remain unchanged and are as follows:

1) To facilitate the achievement of objectives in all other cores (Research, Community Engagement, Research Education and Training) via support of their activities.

2) To foster established, and develop new key relationships, within and external to the University of South Alabama to expand the Center of Excellence’s effectiveness in addressing its overall objective.

**B. Studies and Results:** With regards to the first objective we continue to monitor the resources of the COE grant. Our meetings with College of Medicine and University grants and contracts and business offices continue. We have retained a full-time grant administrator for the Center of Healthy Communities who has a majority of her activities on the grant. Our Internal Advisory Board continues to meet and provide valuable guidance to the Center.

We continue to have core leader meetings regularly. In these meetings we handle day-to-day management issues of the grant. However, importantly, we spend a majority of our time examining and exploring through new initiatives. These discussions have resulted in new partnerships between the Community Engagement and Research Cores and are expected to result in new funding opportunities in the future.

As to the second objective, we continue to nurture established relationships. As mentioned above, we are challenged in our capacity to form new partnerships. Therefore, we have focused our efforts on strengthening those relationships currently in existence. We continue to use personal meetings, our newsletter, our website, and collaborative projects to sustain these relationships. All core leaders have represented the Center at events across the region and nation with a particular focus on maintaining and strengthening our community relationships.

We have continued our support of the University’s Sickle Cell Center’s annual conference. We were also able to support the attendance of many of our CHAs at this meeting where important and practical information was disseminated.

**C. Significance:** The Administrative Core remains the driving force behind COE, insuring that COE activities and projects are closely aligned to the overarching goals of the Center. The Administrative Core is also the major point of contact for researchers, internal and external to the University of South Alabama, who seek COE’s expertise in support of their own research efforts. Most notably, during Y4, the Administrative Core provided advice to several local and regional research initiatives related to the health effects of the Gulf Coast oil spill, particularly as it impacted the disadvantaged minority communities served by COE.
It also facilitated networking between potential researchers and community based groups, fostering the inclusion of CBPR elements in the research proposals submitted by several investigative groups.

In addition, the Administrative Core’s consistent and visible leadership in furthering health disparities/health equity endeavors within the University of South Alabama, throughout the Mobile community and beyond, serves to promote and energize community members’ involvement with the COE and with other investigators pursuing health disparities research.

**D. Plans:** We will continue the activities outlined in Section B above. In general the plans of the administrative core will remain the same:

a) Manage all resources (personnel, financial, and physical) for the Center of Excellence;

b) Foster new scientific relationships between current Center of Excellence investigators and other scientists within and external to the University of South Alabama;

c) Oversee and foster interaction with Center of Excellence internal advisory committees;

d) Continually monitor Center of Excellence interactions with key community partners to enhance those relationships;

e) Constantly convene a leadership team of Core Directors to determine effectiveness of Center of Excellence activities and evaluation of new strategies;

f) Maintain website to meet the identified needs of our partners.

**Community Engagement/Outreach Core**

**A. Specific Aims:** The objectives of the Community Engagement Core remain unchanged and are as follows:

1) To improve health of the populations at high risk for health disparities via dissemination of health information and community based health advocacy;

2) To develop a new generation of healthcare providers and healthcare researchers who will focus on issues underlying health disparities;

3) To provide evidence of the effectiveness of strategies for community engagement in order to understand both process and outcome in building a community based outreach program.

**B. Studies and Results:**

**Specific aim 1:** In year 4 our major intervention to achieve this goal was to nurture a Community Health Advocate (CHA) program designed to empower community members to become leaders in addressing their communities’ health issues and to expand our health information dissemination efforts.
Our CHA program has continued to develop. We have over 150 CHAs, (including adult and youth CHAs) of which nearly 70 are quite active. We have continued our Advisory Board for the CHAs. The Advisory Board is built on a stakeholder model and each stakeholder on the CHA advisory board is a member or leader of community organizations that has provided other CHAs already, and are likely to provide more in the future.

This project is based on community based participatory principles. In year 4 we continued to have our CHAs identify the health initiatives that deserve priority. Similar to past years they have continued to focus their efforts on physical activity, obesity, cardiovascular disease, diabetes, hypertension, women’s health, and stress. The CHA initiated projects have had success and have been used as demonstration projects for other CHAs to implement in their areas. As in previous years we continue to have monthly meetings for our CHAs. Some major events and programs are highlighted below (Table 1).

Table 1. Major Events and Programs

| 2010 Mid South Sociological Association Annual Conference, September 2010: “Sociological Perspectives: Essential Science to Understand Health and Eliminate Health Disparities.” | - Dr. Roma Hanks, Community Outreach Core Co-Director, served as President of MSSA and took the opportunity to focus the meeting on health disparities
- 10 active Community Health Advocates (CHAs) and 2 Youth Community Health Advocates (YCHAs) presented a workshop highlighting COE’s community based efforts in the fight against health disparities
- Through active participation in “From the Field” sessions, CHAs and YCHAs shared their experiences outlining effective approaches for community intervention focused on health disparities, demonstrating how knowledge can be translated into action within their communities. |
| Regional Health Disparities Symposium (RHDS); July 16, 2010 | - Working conference format held at the University of South Alabama’s College of Medicine
- 54 participants in attendance including Community Health Advocates/Youth Community Advocates, university representatives, service organizations and health care counselors
- Discussions held to identify priority areas which (along with those identified in the 2008 and 2009 RHDS) provide a “road map” for the activities of all of the COE’s cores
- Ranking of priorities:
  1. Pathways to Creating Effective Healthcare Policy (Prior Rank #3)
  2. Pathways to improve Nutrition and Promote Physical Activity (Prior Rank # 2)
  3. Pathways to Safe and Healthy Housing (Prior Rank # 1)
  4. Pathways to Eliminate Violence (Prior Rank # 4)
  5. Pathways by Which Women can Better Influence the Health of their Families (Prior Rank #5) |
<table>
<thead>
<tr>
<th>TEEN SUMMIT: Health Reform – Understanding the effects of Healthcare Policy. March 21, 2011 (Bishop State Community College)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Activity designed and carried out by the Youth CHA</td>
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<tr>
<td>- Objective: educate members of the community about the Patient Protection and Affordable Care Act (PPACA)</td>
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<tr>
<td>- Keynote speaker: Karen Ashton, Executive Officer and Senior Intergovernmental Affairs Officer; U.S Department of Health &amp; Human Services</td>
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<tr>
<td>- Teens prepared for the meeting by doing research on recent health reform activities and legislation</td>
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<tr>
<td>- 73 community members in attendance</td>
</tr>
<tr>
<td>- In order to provide community members with the opportunity to voice their opinion regarding the implementation of the PPACA in the state, participants were invited to sign a petition, in support of or in opposition to, the PPACA</td>
</tr>
<tr>
<td>- 56 attendees signed the petition in support of the PPACA, none of the attendees signed the petition opposing the law</td>
</tr>
<tr>
<td>- The petitions will be forwarded to the Governor and Attorney General of the State of Alabama, so they are informed of these community members’ positions regarding this issue</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Health Disparities Curriculum and Pathways to Progress</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Program developed to answer the challenge of maintaining dedication to mission among a group of volunteers</td>
</tr>
<tr>
<td>- A Health Disparities on-line Curriculum developed as a value added tool to enhance CHA knowledge of health and health disparities</td>
</tr>
<tr>
<td>- Curriculum topics include Diabetes, Heart Disease and Stroke, Nutrition and Obesity, HIV/AIDS &amp; STDs, Childhood Asthma, Cancer, Kidney Disease, Injury &amp; Violence Prevention, Health Communication/Literacy and Health Care Policy</td>
</tr>
<tr>
<td>- CHAs are incentivized to complete the curriculum and ultimately use the information gained in a self-designed community based project</td>
</tr>
<tr>
<td>- Incentives include education materials (CDs, books, etc), trips to appropriate meetings, or financial support for CHA directed projects</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>2010 “We Run This City” Marathon Program (currently in progress)</th>
</tr>
</thead>
<tbody>
<tr>
<td>- New childhood obesity initiative introduced, derived from the Cleveland YMCA program called “We Run This City”</td>
</tr>
<tr>
<td>- The program encourages children to lead an active, healthy lifestyle while being engaged in a goal-oriented program</td>
</tr>
<tr>
<td>- Objective: teach young people ages 11-14 to set and achieve goals, increasing their self-confidence as well as their fitness and endurance</td>
</tr>
<tr>
<td>- Boys and Girls Clubs in Mobile main source of program participants.</td>
</tr>
<tr>
<td>- 43 participants enrolled so far</td>
</tr>
<tr>
<td>- Participant teams led by Dietitians, Volunteer Coaches, and Physical Therapy students</td>
</tr>
<tr>
<td>- Training schedule (which includes a nutrition component) allows participants to cover the distances necessary to be prepared for race day. Students accumulate 25 miles of conditioning over 12 weeks and complete their last 2 miles on the day of the race</td>
</tr>
</tbody>
</table>
Other CHA Program Highlights:

- Go Red for Women is an annual event typically hosted by the Center. This year, in an effort to promote sustainable community output, the Center supported three different CHA-sponsored Go Red events (held in the 36617, 36605, and 36603 zip codes). Attendees totaled approximately 120 for all three events.

- The Peer-Supported Diabetic Self Management program was a CHA minigrant program initiated by Barbara Hodnett. The program provided resources for patients with diabetes that included: nutritional advice, glucose monitoring, alternative techniques for lowering numbers and information on the psychological ramifications of the disease. Speakers included: Dana Herazo, M.ED., CSG, RD, LD, CDE, Dr. Nathaniel Abston, Jr., Alethea Hill, PhD, MSN, RN, ANP-BC. A total of 8 sessions were held at the Bethel AME Church in zip code 36603. The average participant number over the 8 sessions was 10 and participants “graduated” at the end of the program.

- We continue to provide six churches represented by our CHAs with the “Universal Patient Record Information System” (UPRIS), a web-based platform that provides health information of importance to the African American faith-based community. Health Ministries are able to find valuable, culturally sensitive resources from the site.

- Monthly CHA meetings are held to update CHAs on upcoming community events, as well as to provide the opportunity for them to report on their individual efforts and collaborate with other volunteers and advocates regarding needs and possible partnerships. Meetings are also built to foster relationships with health ministry leaders in the Empowering Project by bridging programs into one assembly.

- For our fourth year, CHA and Center-sponsored events have reached a total of 1,207 community members through such outlets as health ministry events, health fairs, health disparity workshops/seminars and annual events.

Specific aim 2: The major intervention for this objective is our pipeline programs for school age children. We have continued the high school programs STARS (Students Training for Academic Reinforcement in the Sciences) and STRIPES (Special Training to Raise Interest and Prepare for Entry into the Sciences). Students in these two programs attend inner-city high schools that are located in our service area, namely: Blount, LeFlore, Vigor, and B.C. Rains High School. We administer pre- and post-tests to participants, and were happy to see a significant increase in post-test scores during the last summer session.
Table 2 lists details of participation in the high school pipeline program.

<table>
<thead>
<tr>
<th>Program Component</th>
<th>Blount H.S.</th>
<th>LeFlore H.S.</th>
<th>Vigor H.S.</th>
<th>B.C. Rains H.S.</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRIPES (Rising 11th grader)</td>
<td>4</td>
<td>9</td>
<td>1</td>
<td>2</td>
<td>16</td>
</tr>
<tr>
<td>STARS (Rising 12th grader)</td>
<td>1</td>
<td>-</td>
<td>6</td>
<td>4</td>
<td>11</td>
</tr>
<tr>
<td>Shadowing Program (Graduating 12th graders – Class of 2010)</td>
<td>-</td>
<td>-</td>
<td>1</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Other Pipeline Initiatives:

- We have continued our partnership with Dr. Andre Green, Assistant Professor in the College of Education to enhance our pipeline programs. Dr. Green's area of scholarly focus is the enhancement of science and math education and accomplishment among underprivileged and African American youth. He bases his interventions on mentorship as a method to improve the educational experience. We have continued support of his summer program that focuses on 3rd through 5th graders from the same neighborhoods as our STARS and STRIPES students. His program is a 6-week session during weekday mornings over the summer. His program provided a method for us to identify students earlier and bring them into our pipeline before they are lost. His efforts have resulted in a manuscript in submission, with another in preparation.

- College Tour Trip: Our Graduating STARS Students had the opportunity to visit three colleges (HBCU's): Spellman College, Morehouse College and Clark Atlanta University.
- STARS & STRIPES Saturday Academy academic school year of 2010-2011: Saturday Academies are held every third Saturday of the month, at the USA College of Medicine Conference Room. 27 students participate in a total of 9 sessions (September through March).
- After School Tutoring (September through March): Tutoring sessions are held on Tuesday and Thursday, from 3 p.m. to 5 p.m., at the Toulminville Public Library.

Specific Aim 3: Our evaluation plan for the Outreach Core continues to be both formative and summative. As part of the formative evaluation, we continue to look at the process of engagement for CHAs. We maintain discussions with our CHA leadership council regarding the approach to take to evaluate the effectiveness of this strategy. We have continued developing our database to record such indicators as: meeting attendance, training event participation, information delivery, and health education activities in the community.
We expect that more formal evaluation of the effects on overall health of the community and the health behaviors of the community will intensify during Y5, the last year of current funding.

Our concern for evaluation fatigue was outlined previously (Administrative Core Human Subjects section) so we have been cautious in our evaluative efforts thus far.

We are posed to start a new evaluation project that allows for point of service data entry of CHA activities. This project will be done in collaboration with the USA Department of Computer Sciences and Engineering. Using computer tablets that link to a database, selected CHAs will be able to enter data-in real time on the topic/nature of their activities, the number of persons contacted, and location where held. This novel opportunity will allow us to better determine how information flows within our communities.

C. Significance: The Community Engagement Core has made considerable progress in developing the large and active group of CHAs who address health disparities. It is our goal that each individual will become his or her own health advocate, and, in doing so, will improve the health of their family and members of the surrounding community.

Presentations at the 2010 Mid South Sociological Association Annual Conference, September 2010: “Sociological Perspectives: Essential Science to Understand Health and Eliminate Health Disparities.”

Alexandria Broadnax, Angelique Brown; Youth Community Health Advocates/Pipeline Students University of South Alabama: Center for Healthy Communities Pipeline Program (STARS and STRIPES)
Theresa McPherson; Community Health Advocate: Lights of Empowerment – Living a Healthy Lifestyle
Barbara Hodnett; Community Health Advocate: Diabetes Education Support Group
Hattie Myles, Ph.D.; Community Engagement Core Co-Director: STARS and STRIPES Pipeline Program
Thkisha Sanogo; Community Engagement Core Project Manager: Community Health Advocacy Program
Errol D. Crook, MD; COE PI: Medical and Sociological Perspectives in Health Disparities

RESEARCH EDUCATION/TRAINING CORE

A. Specific Aims: The specific aim of the Research Education/Training Core is to address the disparity in the number of African Americans and other underrepresented minority biomedical researchers.

B. Studies and Results: We have continued the undergraduate Research Program where we place undergraduate students from health disparate populations in summer research experiences. In the summer of 2010, we supported 6 STARS graduates in a mentored research experience with College of Medicine investigators.
These STARS alumni have completed their freshman year of college, evidence of our ability to maintain contact with our students after entering college. In addition, we are able to counsel them on other opportunities/programs that provide bridges to programs in health care careers.

We have had one of the STARS graduates accepted to a pipeline program at USA College of Medicine that assures acceptance into medical school with successful completion. Thus, we have been successful at completing the pipeline. We will continue the Under Graduate Research Program in a similar manner during Y5.

Table 3 below provides detail of the students participating in the Under Graduate Research Program, their mentors and the research topic areas involved. Students presented their work in poster format at the College of Medicine Research Day in August 2010.

### Table 3. Under Graduate Research Program participation.

<table>
<thead>
<tr>
<th>Student Name</th>
<th>Mentor</th>
<th>Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexandria Broadnax</td>
<td>Stevens, Troy, Ph.D.</td>
<td>The effects of Doxycycline on Pulmonary Microvascular Endothelial Cell Growth</td>
</tr>
<tr>
<td>Graduated from Leflore H.S. Attending Dillard Univ-2nd yr Major: Biology Goal: Hematologist</td>
<td>Bauer, Natalie R. Ph.D. Title: Assistant Professor Department: Pharmacology</td>
<td>The effect of cigarette smoke extract on the Endothelial Glycocalyx and Sialic Acid (PMVECs)</td>
</tr>
<tr>
<td>Lela Brown</td>
<td>Rich, Thomas, Ph. D.</td>
<td>Lung Biology Research</td>
</tr>
<tr>
<td>Graduated from Leflore H.S. Attending Alabama St Univ-2nd yr Major: Pre Med Goal: Physical Therapist</td>
<td>Alvarez, Diego, M.D., Ph.D. Title: Assistant Professor Department: Center for Lung Biology</td>
<td>Lung Biology Research</td>
</tr>
<tr>
<td>Narcethia Allen</td>
<td>Rich, Thomas, Ph. D.</td>
<td>Lung Biology Research</td>
</tr>
<tr>
<td>Graduated from Vigor H.S. Attending Alabama A&amp;M-2nd yr Major: Engineering Goal: Bio Chemical Engineer</td>
<td>Gershoffe, William T., Ph.D. Title: Chair, Biochemistry Department: Biochemistry</td>
<td>Heat stroke protein 27 and how its levels might be a Predictive biomarker for Cardiovascular Disease</td>
</tr>
<tr>
<td>Alison Johnson</td>
<td>Gershoffe, William T., Ph.D. Title: Chair, Biochemistry Department: Biochemistry</td>
<td>Heat stroke protein 27 and how its levels might be a Predictive biomarker for Cardiovascular Disease</td>
</tr>
<tr>
<td>Maya Battles</td>
<td>Gershoffe, William T., Ph.D.</td>
<td>The detection of Apoptosis in the Alveolar Septal wall after lung injury</td>
</tr>
<tr>
<td>Graduated from Leflore H.S. Attending Alabama A&amp;M-2nd yr Major: Social Work Goal: Social Worker</td>
<td>Townsley, Mary L., Ph.D. Title: Asst Dean, COM/Dir Faculty Affairs Department: Physiology</td>
<td>The detection of Apoptosis in the Alveolar Septal wall after lung injury</td>
</tr>
<tr>
<td>Quinton Miles</td>
<td>Townsley, Mary L., Ph.D.</td>
<td>The detection of Apoptosis in the Alveolar Septal wall after lung injury</td>
</tr>
</tbody>
</table>
Research Core

A. Specific Aims: The overall goal of the Research Core is to Provide Academic and Logistical Support to Promote Multidisciplinary Research in Minority Health and Health Disparities at USA. The Specific Aims to address this goal are as follows:

1) To promote the generation of data from hypothesis driven, multidisciplinary research projects focused on issues of importance to the health of African Americans and low-income groups;
2) To expand the cohort of investigators conducting innovative health disparities related research.

B. Studies and Results: The major programs of the research core are hypothesis driven, investigator initiated research, the Health Disparities Research Group (HDRG), and invigoration of research interest in health disparities. We strive for a community based participatory research model whenever possible. We will discuss our progress to date in the three main areas outlined above.

Health Disparities Research Group

The HDRG is an assembly of university faculty and community members who gather to discuss health disparities research and determine local strategies to address the problem. Members come from all 3 colleges in the health sciences division and the colleges of Business, Education, Engineering, and Arts and Sciences. During Y4, we have successfully continued this effort and have been able to grow interest in the group’s activities. Meetings are held monthly and steady participation continues among a 12 – 15 core group of participants.

During Y4, HDRG conducted a review of its activities and accomplishments, with the purpose of streamlining its work. Table 1 details the three meetings in which such review was conducted.

Table 1. HDRG review meetings.

<table>
<thead>
<tr>
<th>Meeting</th>
<th>Objectives and Methods</th>
<th>Outcomes</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDRG Internal Research Forum</td>
<td>- Promote interdisciplinary collaboration through presentation and discussion of research projects and/or research interests by individual HDRG Faculty</td>
<td>- Showcase areas of expertise and areas of research interest of HDRG members, as a way to foster synergy between faculty and promote multidisciplinary collaboration for research addressing health disparities</td>
</tr>
<tr>
<td>May 27, 2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 20 members in attendance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- Presentations by 10 members</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDRG Steering Committee Meeting</td>
<td>- Review the organizational and operational model of HDRG</td>
<td>- Discussion of the need to devote staff member time to the promotion and coordination of HDRG</td>
</tr>
<tr>
<td>June 15, 2010</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- 7 constituent members in attendance</td>
<td>and objectives for discussion by HDRG Faculty</td>
<td>Activities</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>-----------------------------------------------</td>
<td>------------</td>
</tr>
<tr>
<td>HDRG Retreat October 29, 2010</td>
<td>- Evaluation of Goals and Objectives proposed by Steering Committee - Define member responsibilities to carry out objectives</td>
<td>- Four goals adopted as proposed by Steering Committee - 14 of 16 objectives proposed adopted - 2 objectives modified - 2 additional objectives adopted - Four Committees defined involving 13 HDRG members charged with implementation of objectives defined</td>
</tr>
</tbody>
</table>

A notable outcome of the overall HDRG review process was the consolidation of links between HDRG and the Community Engagement Core. The Community Engagement Core Project Director was invited to participate in meetings of the HDRG “Community Integration Committee”, with the view to provide seamless continuity between pertinent activities of the Community Engagement and research Cores. Moreover, the decision was made to plan and conduct a joint HDRG- Regional Health Disparities Symposium (RHDS) in Year 5, as a mechanism to strengthen the community-academia partnership intrinsic to the CBPR model.

*Development and promotion of HDRG’s CBPR activities:* The multidisciplinary efforts of the HDRG have resulted in a sub-study that is a collaborative project with a community based group (See report for Pilot Study “HDRG-BAWC collaboration”). This grassroots initiative of the HDRG is one example of the energy and commitment of this group to the CBPR model. In addition, HDRG faculty has developed a subcommittee to begin data assembly and dissemination of the activities of the HDRG. This model will therefore be available for other Centers to mimic and modify for their specific circumstances. The process by which research projects develop within this model is unique and will be shared.

*Invigoration of Research Interest in Health Disparities*
We have set several processes in place to achieve this goal. First and foremost is the development of successful research projects that have impact. The Core Director (M. Arrieta) and the PI (E. Crook) continue to be sought out by deans and department chairs to discuss opportunities in health disparities research in general and collaborative opportunities with our center specifically. Secondly, we look to identify credible research projects in health disparities and facilitate their completion. The Core Director monitors all research projects and works with project PI’s to facilitate productive use of COE resources.
In year 4 we continued Pilot 6 (was funded in year 3) along with other established research
projects (Pilots 1, 3 and 5). In addition, we worked with investigators who had submitted applications to our internal RFAs in years 2 and 3 to develop their research programs into fundable projects. We have been successful in this regard and were able to start an additional project in year 4 (Pilot 7). We have also identified another project for funding in year 5. The latter constitutes another example of the linkages between community engagement and research as the project will implement and evaluate an intervention with the objective of increasing the frequency of family meals. The investigator is a member of the Nursing School faculty and will use African American faith-based institutions as the site for her intervention. Community Engagement Core CHAs will be active participants in the research process.

Pilot project principal investigators present at HDRG meetings so that all of our partners are aware of their work and can look for ways to collaborate. In these sessions several ideas are shared that ultimately strengthen projects. We have provided data on health disparities to investigators preparing proposals. Finally, we have strengthened the link between community and research by having community engagement core personnel and CHAs take part in HDRG meetings and the HDRG retreat. Given the value of this relationship we are moving forward with the joint RHDS-HDRG forum that will provide a compass for future directions of research supported by our Center.

Individual Research Projects:

1) A Family Based Approach For The Treatment Of Obesity
Blair, J.; Preud'Homme, D., PI

Specific Aims:
1) To determine if a family oriented approach to childhood obesity will be more effective in achieving weight loss or weight maintenance than the traditional child focused approach.
2) To determine if a family oriented approach to childhood obesity will lead to the detection of previously undiagnosed, asymptomatic obesity related co-morbidities in the parents of obese children.
3) To determine if parents of obese children effectively lose weight in a family oriented approach.

Presentations:

2. The Impact of Labor Force/Labor Market Status On Access To Health Care Among Black Families in Mobile, Alabama
Hudson, K., PI

A. Specific Aims:
1) To determine the frequency of access to employer provided healthcare in a minority, low income, and urban population.
2) To determine the public healthcare resources available to families.
3) Do changes in labor force status affect access to and utilization of employer provided healthcare?

Presentation:
Hudson K. How do you do it? Methodological questions, challenges and ideas in researching health disparities. 36th Annual Meetings of The Sociological Association; 2010 Oct 15; Baton Rouge, LA.

3. A Network Approach to Facilitating Continuity Of Care For Patients With Chronic Diseases In The Aftermath of a Natural Disaster
Arrieta, M., PI

A. Specific Aims: We propose to build the capacity of the primary care infrastructure in the Gulf Coast by fostering the development of a network of primary care providers that would function seamlessly across the Mississippi – Alabama - Florida state boundaries, to provide continuity of care to patients with chronic diseases affected by a disaster.

The present proposal aims at facilitating a structured dialogue among community health centers, hospitals, commercial and not-for-profit pharmacies, and community based organizations in order to: a) identify the critical chronic disease management needs in the immediate aftermath of a natural disaster, both from the provider and the patient perspectives, b) identify the elements of a community based network that would be ready to cover such needs, and c) define the resources required to make such a network functional. We will focus on the management of major chronic diseases and of HIV/AIDS.

4. Heat Shock Protein 27 As A Marker Of Atherosclerosis
Gerthoffer, W., PI

A. Specific Aims: This is a pilot study to test the hypothesis that low plasma levels of small heat shock protein 27 (Hsp27) is a risk factor in medically underserved populations of patients who are at high risk for cardiovascular disease. Hsp27 is considered an “anti-atherogenic” protein because it has antiproliferative and anti-inflammatory effects in vascular smooth muscle and endothelial cells. Hsp27 is secreted into the blood in nondiseased individuals, and in one clinical study patients with coronary artery disease had much lower plasma levels of Hsp27 compared to nondiseased patients. There is also cell biological data showing unstable atherosclerotic plaques contain much less Hsp27 than nondiseased arterial tissue. Based on these observations low plasma levels of Hsp27 has been proposed to be a marker of plaque instability. To test the hypothesis that plasma Hsp27 levels correlates inversely with the incidence and
severity of coronary artery disease in a high risk, diverse patient population, Hsp27 levels will be measured by enzyme-linked immunoassay in blood samples in a cross-sectional study of three groups of patients.

Presentation:

5. Bay Area Women’s Coalition – HDRG Collaboration
Hudson, K., Arrieta, M., PIs

A. Specific Aims: This project is a collaborative effort of the HDRG and the Bay Area Women’s Coalition, an advocacy group from one of our targeted neighborhoods. We felt the best way for health disparate populations to garner an understanding for medical research was for them to be empowered with knowledge of how medical research is conducted, knowledge of how to review the literature on a topic, and knowledge of how to formulate a research question.

1) For BAWC and HDRG to jointly develop and field a pilot home environment and family health survey.
2) To Improve Trinity Gardens community members’ understanding of the value of health research and the role the public can play in the research enterprise.
3) Foster-within and between BAWC and HDRG-the development of the attitudinal perspective, communication channels and administrative mechanisms necessary to support effective academia - community partnerships for research.

6. Uncovering Health Literacy: Developing A Remotely Administered Questionnaire For Determining Health Literacy Levels In Health Disparate Populations
Show, T., PI

A. Specific Aims:

1) Develop a set of questions related to a person’s health care experience, comprehension, and literacy that can be remotely administered;
2) Interview patients in low income clinic setting and administer both the questions in our new tool as well as an established measure (in-person survey) of health literacy;
3) Analyze questions developed in objective 1 to achieve a final set of questions that correlates well with established in-person survey tools.
R01 Research Core
PI: (Ofori-Acquah, Solomon (Emory University, via subcontract)

A. Specific Aims
Breast cancer (BC) affects African-American women at a lower frequency than white women, yet progression of the tumor and mortality from the disease is higher in the minority population highlighting a major health disparity in the United States (US). We reasoned that variation in the biology of tumors played a critically important role in disease outcome than had previously been fully appreciated in the general population and in African-American versus Caucasians women with BC. To this end, we begun studying cell adhesion molecules tethered at sites of cell-cell contact with the notion that such molecules are involved at critical stages in the transformation of normal epithelial cells into malignant tumors. We discovered that activated leukocyte cell adhesion molecule (ALCAM/CD166), a member of the immunoglobulin super family localizes to sites of intercellular junctions in various epithelial tissues. We then discovered for the first time that primary BC tumors expressed significantly lower levels of ALCAM mRNA compared to normal breast tissue. Our findings have since been reproduced by two independent investigators, each demonstrating that loss of ALCAM function, either due to reduced expression, or mis-location of the protein inside BC tumors is a bad prognostic indicator (Ofori-Acquah and King, 2008). Collectively, these studies suggested loss of ALCAM function contributed to the aggressive BC phenotype such as the type commonly found in African-American women.

This overall hypothesis is being tested in three Specific Aims:

Publications:


Other Center Activities:

Research Activities
The Center for Healthy Communities Research Division has had an active year outside of the Center of Excellence related activities. Below, we report on the activities of some major initiatives that are in addition to the Center of Excellence Grant.
Tele-monitoring of blood glucose in type 2 diabetes
This project is funded by the Robert Wood Johnson Foundation (RWJF) Finding Answers Program and is done in collaboration with the Mobile County Healthy Department (B. 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. Recruitment was a challenge but was completed. This study has been completed and the final report has been submitted to the RWJF. Our primary hypothesis was not supported but in subgroup analysis of patient adherent with protocol we did observe a clinically significant improvement in glucose control. We expect several manuscripts to be written from the data over the next year. Manuscripts with focus on the primary hypothesis, recruitment and retention of subjects and their acceptance of the technology, acceptance and utilization of health care providers of the technology, and cost analysis.

Tele-health and Mental Health
The research core used funding through a subcontract with Morehouse School of Medicine to explore the utility of tele-health in the provision of mental health services. AltaPointe® partnered in the effort that grew from our past collaborative experiences with Morehouse on reducing health disparities after disasters (eg: Hurricane Katrina). The project has been completed, preliminary data analysis has been done and first drafts of papers have been written.

Major Grant Submissions
We submitted our proposal for renewal of our P-20 Center of Excellence Grant. The renewal proposal contains the 4 cores we currently have with some exciting additions to our overall programs. We have enhanced the CHA and pipeline programs and have been able to integrate all cores more thoroughly. We submitted the proposal in April 2011 and should know about funding in the winter months of 2012.

The CHC participated in the submission of a RFP from NIH that focused on impact of Gulf Coast BP oil spill. The CHC coordinated community outreach efforts and brought our partners to the table to develop a comprehensive outreach and educational program that ran in concert with the main research projects.

Center of Healthy Communities Activities Summary
The 2010-11 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. 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.
2010-2011
Summary of Scholarly Activities
Center for Strategic Health Innovations

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Roach RD. Invited speaker. Alabama Regional Extension Center. MASA Governmental Affairs Washington Meeting; 2011 Feb 7; Washington, DC.

Roach RD. Invited speaker. REC working with rural hospitals. Alabama Regional Extension Center. Rural Quality Network; 2011 Mar 3; Prattville, AL.

Taylor C. Invited speaker. Health care outcome assessment. Southern Association of Allied Health Deans Fall 2010 Meeting; 2010 Oct 4; Mobile, AL.

Taylor C. Invited speaker. A fresh look at hazard vulnerability assessments. Sixteenth Annual Local Emergency Planning Committee of Yellowstone County/Montana Safety Services Council Safety Conference; 2011 Mar 3; Billings, MT.

Taylor C. Invited speaker. Navigating the path from as is to will be. Association of Schools of Allied Health Professions Spring Meeting; 2011 Mar 17; New Orleans, LA.

Taylor C. Invited speaker. The role of social networking and crowd sourcing in crisis response and business. Skema Business School; 2011 Apr 4; Sophia-Antipolis, France.


Wallace D. Invited speaker. Radiation exposure awareness, the environmental risks. Alabama Baby Coalition Infant Mortality Conference; 2011 Apr 1; Mobile, AL.

Wallace D. Invited speaker. Radiation exposure awareness, the environmental risks. The Twentieth Annual Continuing Education Conference in Obstetrics and Gynecology; 2011 Aug 19; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Dan Roach III, MD was appointed by Governor Bentley as Health Information Technology Coordinator for the State of Alabama. Dr. Roach served as a panelist during the Regional Meeting for the Office of National Coordinator, July 19, 2011, in Atlanta, Georgia. The discussion topic was Maintaining Your Trusted Advisor Status.

Carl Taylor serves as a broadband ambassador to the Internet Innovation Alliance in Washington and a subject matter expert for the Office of the National Coordinator for Health Information Technology on the topic of end point security. He is an advisor to the European Union funded SAVE ME project which is using Second Life to develop the ability to optimize response to manmade and natural hazards to public transportation sites. He is a grant peer reviewer for the Health Resources and Services Administration, an evaluator for the Northwest Regional Telehealth Resource Center, and a member of the Institute for Health Technology Transformation’s Telehealth and Remote Patient Monitoring Action Group. He was an advisor to the New Zealand Health Challenge. He served as Conference Chair and Session Chair at the SPIE Defense Sensing and Security Conference on Sensing Technologies for Global Health, Military Medicine, Disaster Response and Environmental Monitoring. He was a panelist at the International Risk and Communication Conference and the Telehealth Alliance of Oregon Annual Meeting and Summit. He served on the Department of Health and Human Services Haiti Health Facilities Work Group and serves on the American Medical Association Disaster Preparedness Health Security Card Demonstration Project. He is the Associate Editor of the careandcost.com health care blog.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

In Project Year 2010-2011, the Center for Strategic Health Innovation (CSHI) has continued a long running pattern of growth and development in the areas of health care innovation, medical informatics, and disaster preparedness. We have added staff, expanded our footprint to a new office in the Research Park, initiated renovations for the National Center for Disaster Medical Response (NCDMR), added new projects and activities in medical informatics, and continued disaster preparedness training programs. In Fall 2010, it was determined that with the continued growth of our RMEDE™ activities combined with the need to add staff for the newly funded Alabama Regional Extension Center (ALREC), CSHI needed to expand into a new suite in TRP Building II. This expansion also accommodates renovation to the existing offices in TRP Building III to house the National Center for Disaster Medical Response (NCDMR). NCDMR will offer a state of the art learning environment to advance the process of disaster preparedness and response. The simulation theater creates a live and simulated environment that immerses participants in a life-like scenario, and allows them to rehearse their response, test their plans, and to simulate the potential impact of the disaster.

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 participating in our in-home monitoring project. In 2010-2011, 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 physiological 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 are utilized by Medicaid to determine benchmarks for compliance and comparisons.

New this year is a project with Alabama Medicaid to plan and implement the Patient Care Networks of Alabama (PCNA). PCNA is a primary care case management (PCCM) program which establishes regional networks of care or a “medical neighborhood” that 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. Three pilot areas have begun operations that will jointly serve approximately 80,000 Medicaid recipients in Alabama.

Another successful technology developed in-house by CSHI is the Alabama Incident Management System (AIMS). AIMS is management information software designed to capture Hospital Emergency Incident Command System (HEICS) 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 the number of available beds, supplies, staffing, and equipment are 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 in making emergent decisions. CSHI boasts a network of 774 user facilities including: 18 Community Health Centers, 11 EMA facilities, 316 EMS providers, 1 EMS EOC facility, 12 ADPH EOC facilities, 27 Evacuee Shelters, 118 Hospitals, 13 Medical Needs Shelters, and 258 Nursing Homes. Under contract with the Alabama Department of Public Health Center for Emergency Preparedness (ADPH CEP), 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, 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.

**Training Programs:** Now in its eighth year, ARRTC is a regional response training program 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 throughout the state (ARRTC Road Show). ARRTC Basic is a 2-day course that provides regional response partners with basic, core disaster response training. Sessions are scheduled by hospital planning region, fostering interaction with regional response partners. ARRTC Road Show is a 1 1/2-day course that takes ARRTC training to healthcare facilities across the state, thereby allowing participation by more staff, and invites 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 modified to reflect the specific needs of each area. On Day 1, the morning session presented required topics. For the afternoon session, each facility selects topics from a course menu. Day 2 is an optional day of training, again with topics selected by each facility. A combined total of 42 sessions were presented to participants that 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.”
2010-2011
Summary of Scholarly Activities
Comprehensive Sickle Cell Center

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Haynes J. Invited speaker. What do you need to know about sickle cell disease and sickle cell trait. Alpha Phi Alpha Alabama District Convention; 2010 Oct 22; Mobile, AL.

Haynes J. Invited speaker. Hospital management of sickle cell pain crisis. Greenwood Leflore Hospital; 2010 Nov 4; Greenwood, MS.

Haynes J. Invited speaker. Pathophysiology and medical manifestations of sickle cell disease. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 7; Mobile, AL.

Haynes J. Invited speaker. Adult care: addressing common challenges. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 7; Mobile, AL.
Haynes J. Invited speaker. Sickle cell disease: an overview. University of South Alabama, African American Student Association; 2011 Feb 8; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait in athletes. University of South Alabama Division of Cardiology; 2011 Mar 4; Mobile, AL.

Haynes J. Invited speaker. Multiorgan failure syndrome in sickle cell disease. 11th Annual Sickle Cell Regional Conference; USA Student Center; 2011 Apr 9; Mobile, AL.

Haynes J. Invited speaker. Pathophysiology of sickle cell disease. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 9; Mobile, AL.

Haynes J. Invited speaker. Sickle cell trait and athletes. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 9; Mobile, AL.

Imran H. Invited speaker. Management of sickle cell disease in children. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 10; Mobile, AL.

Imran H. Invited speaker. Management of SCD. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 12; Mobile, AL.

Siddiqui A. Invited speaker. Introduction to genetics. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2010 Dec 9; Mobile, AL.

Siddiqui A. Invited speaker. Red blood cell transfusion in sickle cell disease. 11th Annual Sickle Cell Regional Conference; 2011 Apr 9; Mobile, AL.

Siddiqui A. Invited speaker. Introduction to genetics and thalassemia. Sickle Cell Counselor Education and Certification Program. Sickle Cell Association of America; 2011 May 10; Mobile, AL.

Wilson F. Invited speaker. Sickle cell disease. Alabama Newborn Screening Conference; 2011 Aug 19; Prattville, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: America's Top Doctors, Best Doctors in America. Member, NIH Sickle Cell Advisory Committee; Chapter Review Member, 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.

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 has ongoing research with Emmaus Medical, Inc. to study “A Phase III, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study of L-Glutamine Therapy for Sickle Cell Anemia and Sickle B<sup>0</sup> – Thalassemia” and Novartis Pharmaceuticals to study the “Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease Following Chronic, Intermittent Red Blood Cell Transfusions.” Dr. Haynes is also working with the fellows in the Pulmonary Division and Dr. Karen Fagan on pilot studies investigating airflow obstruction in adults with sickle cell disease and pulmonary hypertension and the assessment of pulmonary hypertension in patients with sickle cell disease. Dr. Hamayun Imran is the collaborating investigator and local PI for TWITCH study that sponsored by NIH and led by St. Jude Children's Research Hospital. This is a national three year clinical trial for children with sickle cell disease on chronic transfusion therapy for critical TCD velocity.

**Clinical Operations:** The 2010-2011 academic year marks the 12<sup>th</sup> year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. The primary objectives of this clinic are (1) to be a resource for practicing physicians in the University and private community; and (2) to serve as a positive educational experience for primary care residents in the Departments of Internal Medicine and Family Medicine. 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 patients from the greater Mobile surrounding areas.

Ms. Pack-Mabien and Ms. Brown support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services. Drs. Hamayun Imran, Felicia Wilson, and Abdul Siddiqui provide the care for patients in the Pediatric Sickle Cell Outpatient Clinic.
An adult hematologist and urologist are needed to support the adult operations. Unfortunately, there is no proposed solution to this deficit of overall clinical operations currently in sight.

Education: The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community and supports the Educator/Counselor Certification Program, which took place twice this academic year at the Sickle Cell Disease Association of America, Mobile Chapter. On April 9, 2011 the Center hosted its eleventh conference on “Practical Issues in Sickle Cell Disease XI: Cost Containment of Healthcare Delivery in the Era of Healthcare Reform.” Dr. Jane S. Hankins from St. Jude’s Children’s Research Hospital in Memphis delivered the Cecil Parker Lectureship entitled, “The Use of Hydroxyurea in Sickle Cell Disease” and presented provocative data demonstrating a decrease in the frequency of pain episodes, acute chest syndrome, hospitalizations, and blood transfusions. Dr. R. Allen Perkins, Chairman, Department of Family Medicine, tackled the subject of healthcare reform and its potential impact on today’s medical practice. Dr. Johnson Haynes, Jr., discussed the diagnosis and management of multi-organ failure syndrome in sickle cell disease. Emphasis was placed on the need for a multidisciplinary team approach to patient management. Dr. Abdul Siddiqui, Assistant Professor of Pediatric Medicine, addressed red blood cell transfusion therapy in the management of sickle cell disease, its indications, potential benefits and risk. Dr. John A. Vande Waa, Director of Infectious Diseases, discussed the management of catheter-related infections. Dr. Karen F. Marlowe, Assistant Dean at Auburn University’s Harrison School of Pharmacy, focused on opioid risk, evaluation and mitigation strategies. 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 move 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: Dr. Haynes continues to serve as an Alabama Sickle Cell Oversight Regulatory Commissioner. He currently serves on the (NIH) Sickle Cell Advisory Committee and (NIH) Chapter Review Member on NIH Guidelines for Hydroxyurea Use in Adults. As of August 1, 2011, Dr. Haynes was appointed Assistant Dean for Diversity and Cultural Competence. Dr. Felicia Wilson also serves as President on the Sickle Cell Oversight and Regulatory Commission for the State of Alabama as President. The Center’s newsletter, “Sickle Cell Today”, was distributed in March and September across the State of Alabama to clients, client’s families, administrators, community sickle cell foundations, physicians and legislators.
2010-2011
Summary of Activities
Office of Development and Alumni Relations

The total number of alumni graduates for the University of South Alabama College of Medicine is 2,186 representing thirty-five classes (1976 – 2011). This number does not include other USAMC housestaff or Ph.D. graduates (see attached report). The Director of the Medical Alumni Office is Mr. Travis Grantham assisted by Ms. Melodie Robinson (Assistant Director) and Ms. Cyndy Harris (Secretary V).

Dr. Amy M. Morris ’93 completed her first year of a two-year team as President of the Medical Alumni Association. The president elect is Dr. Jill Ringold ’01 who will assume the position in June 2012. The Board of Directors meets quarterly during the year and consists of the following members: Dr. Oscar Almeida, Jr. ’85, Dr. William Blaylock ’89, Dr. Cynthia Donnell, 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. Kit Outlaw ’92, Dr. Christopher Semple ’85, Dr. John Todd ’88, and Dr. Stacey Wing ’96.

Scholarship development, recognition of academic achievement, and other projects designed to enhance medical education continue to be a primary focus for the organization. The recipient of the first Medical Alumni Scholar Award for $25,000 was Griffin Collins ’15. Other scholarship awards include:

- Andrea Batchelor ’11, Les Sockwell Memorial Award ($1,000)
- William Black ’14, Medical Alumni Legacy Scholarship ($2,000)
- Grant Zarzour ’11, Christian Grinaker Award ($1,000)
- Amanda Foshee, Erica Pate and Anthony Nix, Clyde Sid Huggins Scholarship ($2,000 each)
- Grant Zarzour ’11, Medical Alumni Leadership Award ($500)

The primary program responsible for raising association funds is the Dues and Annual Fund Drive. All projects and alumni activities are funded from this single program conducted over a four-month period (September – December). In 2010, the dues category was raised to $100 per year for graduates, $50 for residents in training and $1,000 for a lifetime membership. Including lifetime members and individual donors a total of $70,205 was contributed by 632 alumni.

One of the significant events sponsored every year is the Medical Alumni Reunion Weekend. This year’s event which was held at the Perdido Beach Resort in Orange Beach, June 3-5, 2011. This year seven classes were recognized (1976, 1981, 1986, 1991, 1996, 2001 and 2006). The following alumni and USACOM faculty were CME presenters: Dr. Sidney Brevard ’87, Dr. Clara Massey, Dr. Terry Rivers ’83, Dr. Edward Panacek ’81, Dr. William Broughton ‘82, Dr. Lynn Yonge ’86 and Dr. Robert Chagarasulis ’81. Dr. Samuel J. Strada was honored with the 2011 Medical Alumni Association Distinguished Service Award recognizing his commitment and long service to the College of Medicine.
Other major activities sponsored by the Medical Alumni Association included the White Coat Ceremony, the Annual Baugh Picnic (BMSO organized), the Mobile Chapter Senior Class Reception, various donations to student organizations, Skit Night, Review of Systems and the Winter Caduceus Ball. A major project was the complete renovation of the student lounge in the Medical Sciences Building, including the addition of a flat screen TV.

The Medical Alumni Office provides database and administrative support for Alpha Omega Alpha Honor Medical Society and conducts their dues program. Dr. T.J. Hundley is the society councilor. In addition, the office maintains a graduate database, electronic newsletter and a Facebook page for USACOM graduates only.
UNIVERSITY OF SOUTH ALABAMA  
COLLEGE OF MEDICINE  
NUMBER OF GRADUATES BY CLASS

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Total: 2186  
*This total includes one posthumously awarded degree
OFFICE OF STUDENT AFFAIRS
2010-2011

The Office of Student Affairs is responsible for all educational programs in the College of Medicine from admission through graduation from medical school. These activities encompass the areas of Admissions, Student and Academic Affairs, and Continuing Medical Education and are primarily overseen by the Associate Dean for Student Affairs. An Assistant Dean of Curriculum oversees curriculum and an Assistant Dean for Graduate Medical Education oversees the residency programs. An additional Assistant Dean participates in academic counseling and career counseling is partly supported by clinical departments under the direction of Student Affairs.

Activities of the Office of Student Affairs are accomplished through offices located in the Medical Sciences Building, Central Services and Administration Building, and Mastin Building.

Student Affairs

Staffing in the Office of Student Affairs was unchanged from the previous year. The adjacent Health Sciences Building opened in August of 2010, bringing with it congestion and parking challenges. Freshman Orientation proceeded on schedule and included small group sessions on the components of professionalism.

The LCME site visit to the College of Medicine occurred in late September, 2010. The visitors met with students as well as faculty and administration over a three-day period. Dr. Margaret O’Brien wrote Medical Student Performance Evaluation letters for the seniors and proceeded to instigate department-based small career advising panels and required senior students to meet with the counseling panels.

Toward the end of February, a medical student was involved in a serious automobile accident. The student, a senior, was in a head-on collision on Interstate 10 which involved an elderly gentleman. The medical student was airlifted to our hospital system; his brother was in the junior class. The student’s neurologic injuries were devastating. This tragic accident happened on March 3, 2011 two weeks before Match Day and the student’s father attended the Match Day event to accept his son’s match envelope.

The Medical Association of the State of Alabama once again sponsored Match Day festivities which were held on March 17, 2011 at the USA’s Mitchell Center. The Match results were impressive; destination programs included Yale, UCLA, Duke, Ohio State, Georgetown, and a number of quality schools in the southeast region.

Honors Convocation for the College of Medicine was held Friday evening, May 13, 2011, in the Mitchell Center arena on the USA campus. Dr. Erroll Crook, chair of the Department of Internal Medicine, was selected as the faculty speaker by the Class of 2011 and class president, Grant Zarzour, 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 on Saturday afternoon May 14, 2011 at the Mitchell Center.

A week-long orientation session to the junior year is in its second year. Students were certified in ACLS and a hands-on surgical skills session was held. For the first time, a film on patient safety was presented. The White Coat ceremony was again held on the Saturday after orientation to the third year. The ceremony was sponsored, again, by the Medical Alumni Association and was held in the Saenger Theater in downtown Mobile. The students were addressed by Dr. D. Lynn Dyess, Department of Surgery, and by the Class president, Cullen McCarthy. The junior students were “coated” by Drs. Strada and Dyess. The rising seniors who had been inducted into the Arnold P. Gold Humanism in Medicine Honor Society were also recognized at the ceremony.

Student Affairs supports a tutoring program that pays upperclassman and/or graduate students to tutor students who request assistance in the Basic Science courses. In 2010-2011, seven (7) tutors provided 108.75 hours of tutoring to twelve (12) students in Physiology, Neuroscience, Microbiology, Histology, Biochemistry, Gross Anatomy, Pharmacology, Developmental Anatomy, Pathology, and Step 1 preparation.
The number of visiting medical students who participated in Senior elective courses at USACOM in 2010-2011 is outlined below:

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Letters of evaluation (Dean’s Letters) were written for each of the 69 seniors who graduated in May, 2011. Students applied to 2220 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Sixty-seven (67) of the sixty-nine (69) students matched for residency positions. Two (2) students secured a residency training position in the “scramble” that followed the match. Sixty-three (66) of the May graduates used the NRMP as their primary means of obtaining residency and three (3) graduates used the Military Match.

<table>
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*One student matched, but did not graduate due to a serious automobile accident.
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University of South Alabama Seniors
Residencies Received by State

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<td>41%</td>
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<td>25%</td>
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<td>50%</td>
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Sixty-nine seniors received the Doctor of Medicine degree at Commencement on May 14, 2011. On the evening of May 13, the College held its thirty-sixth Honors Convocation, which took place in the Mitchell Center. Dr. Errol Crook addressed the class and J. Grant Zarzour responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award – Lauren Jennifer Platt
Outstanding Student in the Anatomical Sciences – Lauren Jennifer Platt
Charles M. Baugh Award in Biochemistry – Michael Travis Pierce
Medical Assurance Award – Anthony Jerome Nix, Jr.
Leonard Tow Humanism in Medicine Award – Daniel Murphy Bonnici and Thomas B. Montgomery, M.D.
SNMA Leadership Award – Jasmine Talena Phillips
Community Service Award – Erica Lynn Pate and J. Grant Zarzour
Lewis Anderson Medical Student Achievement Award – J. Grant Zarzour
William A. Gardner, Jr. Pathology Award – Geoffrey Lewis Hancy and Lauren Jennifer Platt
Merck Award – George Augustus Nelson IV and Ruchit Ravindra Shah
Samuel Eichold Award – George Augustus Nelson IV
Hollis J. Wiseman Award for Excellence in Pediatrics – Kimberly Riley Bryan
Pharmacology Achievement Award – Robert Alanson Lockwood
John W. Donald Memorial Award in Surgery – Brent Thomas Goedjen
Medical Alumni Leadership Award – J. Grant Zarzour
Charles W. Urschel Achievement Award in Physiology – Michael Travis Pierce
Excellence in Emergency Medicine Award – Erin Hanan Lurie

155
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<th>Course</th>
<th>A</th>
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<th>C</th>
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156
### Academic Progress of Medical Students

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

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<th>2008-09</th>
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<th>Minority Students (Black, Native American, Hispanic)</th>
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<th>2007-08</th>
<th>2008-09</th>
<th>2009-10</th>
<th>2010-11</th>
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<tbody>
<tr>
<td>Total</td>
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157
### United States Medical Licensure Examination (USMLE) Step 1

**First Time Takers**

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<th>2010</th>
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<td>69</td>
<td>67</td>
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<td>7%</td>
<td>6%</td>
<td>7%</td>
<td>7%</td>
<td>9%</td>
</tr>
<tr>
<td><strong>Failures at USA</strong></td>
<td>9%</td>
<td>3%</td>
<td>7%</td>
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### United States Medical Licensure Exam (USMLE) Step 2

**First Time Takers**

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<td><strong>Failure Rate – National</strong></td>
<td>5%</td>
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<td>4%</td>
<td>3%</td>
<td>3%</td>
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<td><strong>Failures at USA</strong></td>
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<td>9%</td>
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</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 2004</th>
<th>Class of 2005</th>
<th>Class of 2006</th>
<th>Class of 2007</th>
<th>Class of 2008</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>National Percentage Passing</strong></td>
<td>97</td>
<td>97</td>
<td>96</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td><strong>USA Percentage Passing</strong></td>
<td>98</td>
<td>96</td>
<td>92</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td><strong>USA Number of Students</strong></td>
<td>61 (a)</td>
<td>54 (b)</td>
<td>50 (c)</td>
<td>56 (d)</td>
<td>61 (e)</td>
</tr>
</tbody>
</table>

(a) 60/60 students had taken Step 3 as of 6/09
(b) 56/59 students had taken Step 3 as of 6/10
(c) 60/60 students had taken Step 3 as of 6/11
(d) 60/63 students had taken Step 3 as of 6/11
(e) 61/65 students had taken Step 3 as of 6/11
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 2010 graduates. A total of 59 responses were received out of 66 requests. Below is a summary of the responses to the four major areas that were assessed.

<table>
<thead>
<tr>
<th></th>
<th>Class of 2007</th>
<th>Class of 2008</th>
<th>Class of 2009</th>
<th>Class of 2010</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medical Knowledge</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>20%</td>
<td>21%</td>
<td>30%</td>
<td>16%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>48%</td>
<td>39%</td>
<td>46%</td>
<td>40%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>24%</td>
<td>27%</td>
<td>22%</td>
<td>31%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>6%</td>
<td>11%</td>
<td>1%</td>
<td>11%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>2%</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Data Collection</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>17%</td>
<td>22%</td>
<td>27%</td>
<td>22%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>52%</td>
<td>42%</td>
<td>49%</td>
<td>36%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>25%</td>
<td>32%</td>
<td>24%</td>
<td>34%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>6%</td>
<td>4%</td>
<td>0%</td>
<td>6%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<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>29%</td>
<td>27%</td>
<td>24%</td>
<td>17%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>40%</td>
<td>38%</td>
<td>55%</td>
<td>40%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>20%</td>
<td>28%</td>
<td>20%</td>
<td>37%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>4%</td>
<td>7%</td>
<td>0%</td>
<td>4%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>1%</td>
<td>2%</td>
</tr>
<tr>
<td>Professional Attitudes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>39%</td>
<td>36%</td>
<td>51%</td>
<td>37%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>36%</td>
<td>41%</td>
<td>31%</td>
<td>30%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>18%</td>
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<td>27%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>6%</td>
<td>3%</td>
<td>0%</td>
<td>4%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>1%</td>
<td>2%</td>
</tr>
</tbody>
</table>

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

The 2010-2011 Curriculum Committee was chaired by Dr. Benjamin Estrada, Professor of Pediatrics. The following issues were addressed by the Committee during the year:

- The third year clerkship directors presented their courses to the Committee for review. The review included performance statistics, mini-board grades, student feedback, and correlation to institutional objectives.

- Standardized web-based evaluations of courses from the first through the third years were successfully implemented.

- For the basic science years, students continued to receive formative feedback. Formative feedback continued in the clinical clerkships and New Innovations was utilized for the clinical clerkships.

- Preparation for the LCME visit in September, 2010 involved many Committee members in submitting and collating data for the Self-Study. Efforts in the curriculum area were led by the Assistant Dean for Curriculum, Dr. Susan LeDoux.

- The two-week case-based Step 1 review course occurred in the spring of 2010. It was designed primarily by Drs. Al-Mehdi and Sosnowski.

- Following the recommendations of the LCME evaluators and secretariat, the SMART sub-committee was formed by the Dean to develop action plans for development of a more integrated curriculum. There will be a new competency-based curriculum across the four years implemented in 2012. 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 (ACGME) 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. Additionally, action plans have been put into place to incorporate more “active learning opportunities” in the curriculum. The Curriculum Committee itself will undergo structural changes in 2011-2012 and will be driven, primarily, by four task forces led by newly appointed Associate Dean for Medical Education, Dr. Susan LeDoux, and supported by three Assistant Deans for Medical Education, Dr. Benjamin Estrada, Dr. Anthony Gard, and Dr. Jeff Sosnowski. The redesign of the basic science curriculum and the inclusion of vertical components into the clinical years will continue into 2011-2012.
- Summer faculty development workshops were held on team-based learning (TBL) during which Dr. Kenan Penaskovic guided small groups through a typical TBL exercise. Team-based learning will be an important component for the revised basic science curriculum.
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. Historically, the officers of the Assembly were elected from the rising senior class. The Student Assembly last year made the determination to elect officers from the rising junior class for better continuity. The officers for 2010-11 were President – Shannon Burgess, Vice President – Chad McRee, and Secretary/Treasurer – William Perez. The Faculty Advisors were Dr. T. J. Hundley and Dr. Anthony Gard.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) In 2010-11, the student health insurance requirement was modified by the Dean and Vp for Health Sciences. Students are required to document some form of insurance coverage. Guidelines are provided and a local option provided by student health was made available but not mandated by Student Affairs.

2) The Student Mentoring and Advising Program was organized and pods were assigned.

3) LCME visit – September 27-29. Student leaders met with the LCME inspectors during the September 27-29, 2010 LCME visit.

4) The Gumbo Chili Showdown was held on March 26, 2011 to raise money for the Reagan Robinson Young Scholarship fund.

5) The “Our Neighborhood Clinic,” located on the third floor of USAMC, is available for flu shots and PPD testing.

6) The AOA Health Fair was held in Bayou La Batre at the Community Center on January 15, 2011.

7) A student-organized financial education and debt management session was held on Tuesday, April 26, 2011.

8) Skit night was held on May 6, 2011 at the Convention Center in downtown Mobile.
OFFICE OF FINANCIAL AID

<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Financial Aid</td>
<td>$8,732,001</td>
<td>$8,800,872</td>
<td>$8,863,202</td>
<td>$9,758,827</td>
<td>$10,505,628</td>
</tr>
<tr>
<td>Students on Aid</td>
<td>252</td>
<td>267</td>
<td>250</td>
<td>264</td>
<td>273</td>
</tr>
</tbody>
</table>

**Loans**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</thead>
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<tr>
<td>Perkins</td>
<td>1,350,000</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Direct Subsidized</td>
<td>1,925,439</td>
<td>1,842,228</td>
<td>1,791,132</td>
<td>1,962,148</td>
<td>2,024,937</td>
</tr>
<tr>
<td>Direct Unsubsidized</td>
<td>4,310,896</td>
<td>5,537,603</td>
<td>5,770,917</td>
<td>6,245,368</td>
<td>6,928,397</td>
</tr>
<tr>
<td>DirectGrad Plus</td>
<td>0</td>
<td>1,198</td>
<td>40,095</td>
<td>151,801</td>
<td>211,635</td>
</tr>
<tr>
<td>Outside Private Loans</td>
<td>22,495</td>
<td>25,677</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Loans</strong></td>
<td>$7,608,830</td>
<td>$7,406,706</td>
<td>$7,602,144</td>
<td>$8,359,317</td>
<td>$9,164,969</td>
</tr>
</tbody>
</table>

**Scholarships**

<p>| | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>University Sponsored</td>
<td>545,506</td>
<td>517,640</td>
<td>500,529</td>
<td>777,563</td>
<td>689,669</td>
</tr>
<tr>
<td>Outside Sponsored</td>
<td>305,514</td>
<td>580,790</td>
<td>427,982</td>
<td>342,364</td>
<td>393,442</td>
</tr>
<tr>
<td>Military – Army</td>
<td>14,439</td>
<td>0</td>
<td>17,790</td>
<td>38,439</td>
<td>22,953</td>
</tr>
<tr>
<td>Military – Navy</td>
<td>72,917</td>
<td>64,377</td>
<td>36,429</td>
<td>58,994</td>
<td>66,922</td>
</tr>
<tr>
<td>Military - Air Force</td>
<td>144,795</td>
<td>146,501</td>
<td>180,524</td>
<td>97,988</td>
<td>68,335</td>
</tr>
<tr>
<td>Alabama Medical Board Scholarship</td>
<td>40,000</td>
<td>45,000</td>
<td>50,000</td>
<td>35,000</td>
<td>35,000</td>
</tr>
<tr>
<td>Alabama VA Benefits</td>
<td>0</td>
<td>39,858</td>
<td>47,804</td>
<td>25,460</td>
<td>32,969</td>
</tr>
<tr>
<td>Post 9-11 GI Bill</td>
<td></td>
<td></td>
<td></td>
<td>23,702</td>
<td>31,369</td>
</tr>
<tr>
<td><strong>Total Scholarships</strong></td>
<td>$1,123,171</td>
<td>$1,394,166</td>
<td>$1,261,058</td>
<td>$1,399,510</td>
<td>$1,340,659</td>
</tr>
</tbody>
</table>

Average Indebtedness of a Graduating Senior

|              | $126,116 | $137,418 | $130,890 | $133,227 | $127,659 |

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, 2010, through July 31, 2011, nine (9) emergency loans were approved for a total amount of $4,325.00. During that period, nine (9) payments totaling $4,025.00 were paid back into the loan account.
OFFICE OF EDUCATIONAL ENRICHMENT

Diversity, Recruitment, and Enrichment for Admission into Medicine (D.R.E.A.M.)

The summer of 2011 marked the twenty-fifth (25th) 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 third year in a row, to the original number, seven (7), accepted when the program first began in 1986.

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

Phase I
The composition of the 2011 Phase I class of incoming D.R.E.A.M. students was a total of seven (7) students; two (2) males and five (5) females representing five (5) institutions:

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

Three (3) of the seven (7) students are Alabama residents, one (1) is a resident of Alaska, one (1) is a resident of Louisiana, one (1) is a resident of Florida, and one (1) is a resident of Texas. The grade point averages of Phase I entering students ranged from 3.4 to 4.0, and ACT scores ranged from 19 to 26.

Phase II
All of the students who participated in Phase I of the program in the summer of 2010 were successful and returned in 2011 for Phase II except one (1) student who did not pass Phase I of the program. The Phase II students represent three (3) different institutions:

- Alabama A&M................................. 1
- Howard............................................. 1
- USA................................................. 4

Three (3) of the six (6) Phase II students are Alabama residents; one (1) is a resident of Columbus, Georgia, and two (2) are residents of Gautier and Pascagoula, Mississippi.
Admission
In August of 2011, one (1) male, a former D.R.E.A.M. student, entered the University of South Alabama College of Medicine freshman class. The new student is a graduate of the Mississippi University for Women and is a resident of Jackson, Mississippi. One (1) male student from this class deferred to enter in 2012. The deferring student is a graduate of Auburn University.

Other Recruitment
The Office of Educational Enrichment made recruitment trips to seven (7) colleges and universities: Alabama State University, Stillman College, Tuskegee, Miles College, Talladega College, University of Alabama, and Alabama A&M University. Budget restrictions also affected the number of colleges and universities visited, reducing the number by 50%.

The D.R.E.A.M. Program celebrated its 25th anniversary in 2011 by hosting a reunion conference for all former participants, physicians, and instructors. In attendance were fifty-three (53) former program participants coming from eleven (11) different states: Alabama, Arkansas, Florida, Georgia, Louisiana, Mississippi, North Carolina, Nebraska, South Carolina, Tennessee, and Texas. The reunion was held April 29-30, 2011 at the RSA Renaissance Hotel in Mobile, Alabama. The keynote speaker was Dr. Augustus White, a retired African American Orthopaedic Surgeon with an emeritus professorship at Harvard University, whose talk was entitled: “What Dr. King Would Want Us to Know About Health Disparities.” Overall, the event proved to be a success with excellent fellowship and several donations made to the University of South Alabama Black Physician Scholarship Fund.
OFFICE OF ADMISSIONS
2010-2011

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 15, 2011, opened June 1 and closed November 15, 2010.

For the Class of 2015, one thousand two hundred seventy-one (1271) applications were received. Three hundred eighty nine (389) applications were received from Alabama residents, seven hundred fifty four (754) applications from out of state U.S. citizens, and one hundred twenty-eight (128) applications from citizens of foreign countries. The Admissions Committee interviewed a total of two hundred sixteen (216) applicants of which one hundred seventy-nine (179) were residents of Alabama. Of the applicants interviewed, one hundred forty-nine (149) were offered admission to fill a class of seventy-four (74). Sixty-one (61) of the matriculating students are Alabama residents. Five (5) offers of admission were made to black applicants; four (4) will matriculate. One (1) of the matriculating black students is a DREAM (Diversity Recruitment and Enrichment for Admission into Medicine) student. This year, our records indicate an increase in the number of applicants (1271 in '11 vs. 1169 in '10); there was also an increase in Alabama applicants (389 in '11 vs. 381 in '10). Table I gives comparative data since 2008.

The matriculating Class of 2011 represents thirty-three (33) colleges and universities from the United States. Fifty-four percent (54%) of this year's class, however, come from four (4) universities in the state.

Recruitment and Retention Efforts

1. Undergraduate campus recruiting visits and sophomore interviews were implemented by "teams" of faculty, administration and medical students. The USACOM recruiting teams counseled over 400 premedical students at 10 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, learn about 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: The College of Medicine Admission Bulletin, Policies and Procedure Manual.

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

7. A total of 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 216 candidates; each candidate was interviewed by three committee members, giving a total of 648 interviews.

8. The following Admissions Committee subcommittees were active in 2010-2011:
   Early Acceptance Program Subcommittee

**Early Acceptance Program**

In 1990, the College of Medicine and the University's Health Preprofessions Program established an Early Acceptance Program (EAP) 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 29 (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 Preprofessions Program at USA, 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, one hundred six (106) 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 |
<table>
<thead>
<tr>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applicants</td>
</tr>
<tr>
<td>Residence:</td>
</tr>
<tr>
<td>Alabama</td>
</tr>
<tr>
<td>Out-of-State</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
</tr>
<tr>
<td>Foreign</td>
</tr>
<tr>
<td>Alabama Female</td>
</tr>
<tr>
<td>Out-of-State Female</td>
</tr>
<tr>
<td>Alabama Rural</td>
</tr>
<tr>
<td>Alabama Black</td>
</tr>
<tr>
<td>Out-of-State Black</td>
</tr>
<tr>
<td>Total Applicants Interviewed</td>
</tr>
<tr>
<td>Residence:</td>
</tr>
<tr>
<td>Alabama</td>
</tr>
<tr>
<td>Out-of-State</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
</tr>
<tr>
<td>Foreign</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Rural</td>
</tr>
<tr>
<td>Black (excludes DREAM students)</td>
</tr>
<tr>
<td>Total Applicants Accepted</td>
</tr>
<tr>
<td>Residence:</td>
</tr>
<tr>
<td>Alabama</td>
</tr>
<tr>
<td>Out-of-State</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
</tr>
<tr>
<td>Foreign</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Rural</td>
</tr>
<tr>
<td>Total Black</td>
</tr>
<tr>
<td>Black Regular Admissions</td>
</tr>
<tr>
<td>DREAM Program</td>
</tr>
<tr>
<td>Early Decision Program</td>
</tr>
<tr>
<td>Total Matriculants</td>
</tr>
<tr>
<td>Average MCAT</td>
</tr>
<tr>
<td>Average GPA</td>
</tr>
<tr>
<td>Residence:</td>
</tr>
<tr>
<td>Alabama</td>
</tr>
<tr>
<td>Out-of-State</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
</tr>
<tr>
<td>Foreign</td>
</tr>
<tr>
<td>Female</td>
</tr>
<tr>
<td>Rural</td>
</tr>
<tr>
<td>Total Black</td>
</tr>
<tr>
<td>Black Regular Admissions</td>
</tr>
<tr>
<td>Black DREAM Program</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 only three of 22 criteria. The OCME was granted full reaccreditation for a four year term with no progress reports required. In 2010-2011 the OCME coordinated CME activities provided by the clinical departments and outside agencies to physicians with 604 regularly scheduled series (Grand Rounds) for 632.75 CME credit hours and 14 unique activities accounting for 80.75 CME credit hours. In total, 6,094 physician credit hours were awarded and 3,331 non-physician credit hours were awarded. Additionally, two joint sponsorship programs with outside agencies were supported by the Office of CME. The first was jointly sponsored with Mercy Medical in Baldwin County and addressed a new PACE program through Alabama Medicaid and Mercy Medical. The second activity, jointly sponsored with APHCA, was held in Montgomery, Alabama in the spring of 2011. 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

CME Plans for 2011-2012:

1. Continue to work with Quality Management and Performance Improvement in addressing issues with core outcomes.
2. Increase number of online CME activities.
3. Implement Performance Improvement CME.
4. Collaborate with local agencies in addressing medical concerns of this area.
5. Develop a “research” aspect to the development and utilization of CME.
6. Develop criteria for effective use of audience response system.
7. Participate with hospitals in Round Table Discussions with physicians and staff.
8. Move toward all online disclosure submission.
9. Host CME Educational Forum for local CME / CEU providers.
10. Work jointly with Department of Nursing identifying common deficiencies.
OFFICE OF GRADUATE MEDICAL EDUCATION

Organizational Structure

After seven years of dedicated leadership in the role of Assistant Dean for Graduate Medical Education (GME) at the University of South Alabama, College of Medicine and Designated Institutional Official (DIO) for the University of South Alabama Hospitals, Dr. Arnold Luterman stepped down from these posts in anticipation of his forthcoming retirement. Dr. Carole Boudreaux, Associate Professor of Pathology at the University of South Alabama, was appointed to succeed Dr. Luterman as Assistant Dean and DIO effective May 1, 2011. Dr. Boudreaux and the staff of the GME Office are responsible for the oversight of all Accreditation Council for Graduate Medical Education (ACGME) accredited residency and fellowship training programs at the institution.

The GME Office implements policies of the Graduate Medical Education Committee (GMEC). The ACGME charges the GMEC with monitoring and advising on all aspects of residency education including compliance with ACGME requirements and creating a strong and supportive learning environment for the trainees. The GMEC is composed of program directors, teaching faculty, designated representatives of the major teaching hospitals, and peer selected residents. The activities of the GMEC are reported to the Dean, College of Medicine.

Overview

The University of South Alabama Hospitals (USAH) sponsored 11 residency and 7 fellowship programs with a combined total of 246 residents and fellows during the 2010-2011 academic year.

- All residency and fellowship programs at the University of South Alabama are accredited by the ACGME.

<table>
<thead>
<tr>
<th>Program Name</th>
<th># of positions filled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>18</td>
</tr>
<tr>
<td>FM:Sports Medicine</td>
<td>1</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>48</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>6</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>6</td>
</tr>
<tr>
<td>Infectious Disease</td>
<td>3</td>
</tr>
<tr>
<td>Pulmonary/CC</td>
<td>6</td>
</tr>
<tr>
<td>Med/Peds</td>
<td>9</td>
</tr>
<tr>
<td>Neurology</td>
<td>7</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td><strong>Program Name</strong></td>
<td><strong># of positions filled</strong></td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>0</td>
</tr>
<tr>
<td>OB/GYN</td>
<td>16</td>
</tr>
<tr>
<td>Orthopaedic Surgery</td>
<td>15</td>
</tr>
<tr>
<td>ORS:Sports Medicine</td>
<td>1</td>
</tr>
<tr>
<td>Pathology</td>
<td>13</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>35</td>
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<tr>
<td>Psychiatry</td>
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<tr>
<td>Radiology</td>
<td>20</td>
</tr>
<tr>
<td>Surgery</td>
<td>26</td>
</tr>
</tbody>
</table>

**New ACGME Accredited Programs (approved)**

The following new program submission received ACGME approval.

<table>
<thead>
<tr>
<th><strong>Program Name</strong></th>
<th><strong>Status as of July 1, 2011</strong></th>
<th><strong>Cycle Length</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Neurophysiology (Fellowship)</td>
<td>Approved</td>
<td>2 years</td>
</tr>
</tbody>
</table>

**ACGME Accreditation Site Visits**

The following programs were site visited or received RC (Review Committee) accreditation during 2010-2011:

<table>
<thead>
<tr>
<th>Program</th>
<th><strong>Site Visit Date</strong></th>
<th><strong>Effective Date</strong></th>
<th>Accreditation Status</th>
<th>Accreditation Cycle (Years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>March 16, 2010</td>
<td>Sept 15, 2010</td>
<td>Continued Accreditation</td>
<td>4</td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>September 15, 2010</td>
<td>Jan 28, 2011</td>
<td>Continued Accreditation</td>
<td>5</td>
</tr>
<tr>
<td>Pulmonary/CC</td>
<td>September 16, 2010</td>
<td>Jan 28, 2011</td>
<td>Continued Accreditation</td>
<td>5</td>
</tr>
<tr>
<td>Med/Peds</td>
<td>April 12, 2011</td>
<td>Pending RC Notice</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
the concepts of QI introduced in the tutorial. After completing the pilot project, the residents will begin identifying and conducting their own QI projects.

2. ACGME Common Program Requirements Interdisciplinary Curriculum:

The GME office will facilitate developing Sakai modules to instruct the resident across disciplines in the Common Program Requirements. A module for instruction in “Critique of the Medical Literature and How to Write a Scientific Paper” is already in place, and modules addressing Evidence-based Medicine and QI (see above) are under development.

3. Chief Resident Conference:

A seminar for chief residents is in the planning stages for March, 2012. This will include a day-long series of conferences designed to equip the chief residents with management tools, conflict resolution skills, communication skills and other resources to assist them in carrying out functions of chief residents.

4. Residency Program Coordinator Meetings and Workshops:

Monthly program coordinator meetings will be conducted with the goals of: 1) providing coordinators a platform to exchange ideas while fostering communication between program coordinators, program directors, and the Office of Graduate Medical Education, 2) creating an atmosphere of camaraderie and support among the program coordinators, 3) developing and encouraging opportunities for professional growth, 4) facilitating integration of the ACGME requirements, particularly the revisions to the Common Program Requirements that went into effect July 1, 2011, into the programs.

Recruitment
The GME Office mailed 17,659 recruitment postcards to fourth year medical students who will be graduating in 2012.
2010-2011
Summary of Activities
Medical Student Summer Research Program

The Thirty-eighth Annual Medical Student Research Day was held on Friday, August 5, 2011 hosting approximately 140 attendees in the Medical Sciences Building auditorium and College of Medicine Conference Room. Sixteen 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. Talmadge King, Julius R. Krevans Distinguished Professor of Medicine and Chair at the University of California at San Francisco was the keynote speaker. Dr. King’s seminar was entitled, “Physician-Scientist: Pursuit of a Career in Patient-Oriented Research.”

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

**ORAL PRESENTATIONS**

Jason Largen, sophomore medical student. Antisense oligonucleotides of SER/THR protein phosphatases 5 in HEla cells enhances Chk1 and p53 phosphorylation after UV light induced genomic damage. Sponsored by Honkanen, Richard, Ph.D., Department of Biochemistry and Molecular Biology.

Stephen Cheek, freshman medical student. Response of children with autism spectrum disorders and neurotypical children to an educational robot. Sponsored by Swingle, Hanes, M.D., M.Ph., Department of Pediatrics, and Zlomke, Kim, Ph.D., Department of Psychology.

Amber Bartlett, sophomore medical student. Autoreactive T follicular helper cells and the development of murine lupus. Sponsored by Barrington, Robert, Ph.D., Department of Microbiology and Immunology.

Stephanie Stopka, sophomore medical student. Regulation of metallopeptinase expression by mitochondrial oxidative stress in osteoarthritic human chondrocytes. Sponsored by Grishko, Valentina, Ph.D., and, Pearsall, Albert, M.D., Departments of Cell Biology and Neuroscience, and Orthopaedic Surgery.

Austin Reece, freshman 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, Pharmacology, and Center for Lung Biology.
R. Evan Levy, sophomore medical student. Role of MMP-2/MMP-9 expression in neointimal formation following carotid injury. Sponsored by Rocic, Petra, Ph.D., Department of Biochemistry and Molecular Biology, and Weber, David, Ph.D., Department of Physiology.

Cara Stalzer, sophomore medical student. NCK-Interacting Kinases (NIK) regulates invadopodia formation through phosphorylation of coflin. Sponsored by LeClaire, Lawrence, M.D., Department of Biochemistry and Molecular Biology.

**POSTER PRESENTATIONS**

Benton Carson, sophomore medical student. Occurrence of influenza in a vaccinated population and its effects on compliance. Sponsored by Howell, Druhan, M.D., Departments of Pediatrics and Internal Medicine.

L. Tiara Murphy, sophomore medical student. Dynamic changes in plasma HSP27 levels & phosphorylation in patients with cardiovascular disease. Sponsored by Gerthoffer, William, Ph.D., Department of Biochemistry and Molecular Biology, and Massey, Clara, M.D., Department of Internal Medicine.

Sara Embree, sophomore medical student. Reactive oxygen species potentiate SOC entry in pulmonary artery endothelial cells. Sponsored by Cioffi, Donna, Ph.D., Department of Biochemistry and Molecular Biology.

Landon Brown, sophomore medical student. Hypoxia-induced extrusion of cyclic AMP containing microparticles. Sponsored by Bauer, Natalie, Ph.D., Department of Pharmacology and Center for Lung Biology, and Sayner, Sarah, Ph.D., Department of Cell Biology and Neuroscience.

Zachary Simms, sophomore medical student. Glucose-6-phosphate-dehydrogenase contributes to phenotypic changes in hypoxic pulmonary artery smooth muscle cells. Sponsored by Gupte, Sachin, Ph.D., Department of Biochemistry and Molecular Biology.

Benjamin Sherman, freshman medical student. The role of the unfolded protein response in hyperoxia induced pre-term lung disease. Sponsored by Benjamin, John, M.D., M.Ph., and Brewer, Joseph, Ph.D., Department of Pediatrics, and Microbiology and Immunology.

Thomas Garth, Jr., sophomore medical student. Effect of donor oocytes obtained from infertile patients on donor and recipients’ outcomes. Sponsored by Inge, George, M.D., and Koulianos, George, M.D., Department of Obstetrics and Gynecology, Degelos, Suzanne, Ph.D., The Center for Reproductive Medicine, Mobile Infirmary Medical Center.
Cameron Corte, sophomore medical student. Comparison of alveolar macrophage function in wild-type and TRPV4 knock-out mice. Sponsored by Parker, James, Ph.D., Department of Physiology.

James Myer, sophomore medical student. Spatial proximity of basal Ca\(^{2+}\) events and eNOS in swine coronary artery endothelium. Sponsored by Taylor, Mark, Ph.D., Department of Physiology.

The Clyde G. “Sid” Huggins Medical Student Research Awards were presented to Mr. Jason Largen, sophomore medical student for best oral presentation entitled, “Antisense oligonucleotides of SER/THR protein phosphatases 5 in HELA cells enhances Chk1 and p53 phosphorylation after UV light induced genomic damage.” He was sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology, and Mr. Zachary Simms, sophomore medical student for best poster presentation entitled, “Glucose-6-phosphate-dehydrogenase contributes to phenotypic changes in hypoxic pulmonary artery smooth muscle cells.” He was sponsored by Sachin Gupte, Ph.D., Department of Biochemistry and Molecular Biology. Each winner was presented with a plaque of recognition and cash award. Both recipients are eligible to make their presentations at the Annual National Research Forum in Galveston, Texas.
Graduate Program in Basic Medical Sciences

Administration

Dr. Ronald Balczon is the current Director of the Basic Medical Sciences Graduate Program. An election will held in 2011 to determine the directorship for 2012-2015 term.

Admissions

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

Interviews for Basic Medical Sciences Graduate Program Fall 2011 Class applicants were held in December, March, April, May, June, and July. A total of 16 students were interviewed (US=10; International=4). A summary of Admissions activity is provided below.

<table>
<thead>
<tr>
<th>Admissions - BMS Graduate Program</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inquiries</td>
</tr>
<tr>
<td>US</td>
</tr>
<tr>
<td>International</td>
</tr>
<tr>
<td>Applicants</td>
</tr>
<tr>
<td>US</td>
</tr>
<tr>
<td>International</td>
</tr>
<tr>
<td>Acceptances</td>
</tr>
<tr>
<td>US</td>
</tr>
<tr>
<td>International</td>
</tr>
<tr>
<td>Matriculants</td>
</tr>
<tr>
<td>US</td>
</tr>
<tr>
<td>International</td>
</tr>
<tr>
<td>Average GRE</td>
</tr>
<tr>
<td>Average GPA</td>
</tr>
</tbody>
</table>

Recruitment Activities

1. Talks were given at several local high schools.
2. Graduate Office personnel presented information at regional science conferences.
3. Dr. Balczon met with faculty colleagues at many regional colleges and universities during Fall, 2010. Dr. Balczon and Ms. Flagge participated in the Alabama Connection Graduate School Recruitment Expo in October, 2010. Ms. Flagge represented the program at the Louisiana Regional College Career Fair in north Louisiana in April, 2011.
4. Presentations were made to USA's Premedical Honors Society and Freshman Biomedical Sciences students.
5. Students and faculty from Spring Hill College and William Carey University attended the Graduate Forum on November 19, 2010.
Curriculum

1. Instructional format for IDL 581 Fundamentals of Basic Medical Sciences course was modified.
2. A new mode of training was utilized in the Signal Transduction course, summer, 2011.
3. The fourth COM Research Forum was held on November 19, 2010.

New Programs/Policies/Requirements

1. BMS Graduate Students are insured under the campus-wide health insurance offered through United Health Care.
2. A self-study of the program, as mandated by SACS and USA’s Graduate School, was conducted. Data were forwarded to two outside reviewers for assessment and recommendations. Following a site visit in June, their recommendations were reviewed at a faculty retreat held September, 1, 2011. Planned changes in policy include:
   a. re-instituting preliminary exam, consisting of written and oral components for students to complete at the end of second year.
   b. deleting medical courses and courses not taught in the last three years.
   c. establishing criteria for track leaders
   d. evaluating advanced curricula
   e. establishing additional tracks
   f. focusing on mentoring of students
   g. establishing benchmarks for monitoring student progression in completing degree

BMSSO-Basic Medical Sciences Student Organization

BMSSO hosted meetings, giving various academic, governmental, and industry personnel opportunities to address students on topics including developing CV’s and employment opportunities with governmental agencies such as NIH, CDC, etc. The organization also hosted the annual Charles Baugh “Dawg Day” and a Mardi Gras appreciation luncheon for BMS Graduate Faculty. Funds raised from t-shirt sales allowed the BMSSO to make a generous contribution to the Ronald McDonald House.

Extramural Support for Graduate Training

1. The NIH Predoctoral Institutional Training Grant on “Cell Signaling and Lung Pathobiology” provides stipend support for six students.
2. BMS Graduate Program students received extramural grant awards through American Heart Association and EPSCOR. Travel awards for participating at national conferences and annual meetings in the disciplines were also received.
Graduates

One hundred seventy-four students have received a Ph.D. in Basic Medical Sciences. Students completing all requirements during the academic year (September 2010-August 2011) are:

Glenda Bonilla
DISSEPTION TITLE: "Essential Role of Lactate Dehydrogenase-A (LDH-A) in the Proliferative and Neo-angiogenic Phenotype of Pulmonary Microvascular-Endothelial Cells"
MAJOR PROFESSOR: Troy Stevens, Ph.D.
DEPARTMENT: Pharmacology/Center for Lung Biology
CURRENT POSITION: Relocated to Florida

Salina Gairhe
DISSEPTION TITLE: "Myoendothelial Gap Junctional Signaling Regulates Pulmonary Arterial Smooth Muscle Cell Phenotype"
MAJOR PROFESSOR: Ivan F. McMurtry, Ph.D.
DEPARTMENT: Pharmacology/Center for Lung Biology
CURRENT POSITION: Postdoctoral Fellow; Department of Pharmacology, USA

Christina Barry McManus
DISSEPTION TITLE: "Calcium Entry Through the Store-Operated Calcium Current, Isoc, Disrupts the Spectrin-F-Actin Interaction Inducing Interendothelial Gaps"
MAJOR PROFESSOR: Troy Stevens, Ph.D.
DEPARTMENT: Pharmacology/Center for Lung Biology
CURRENT POSITION: Manager, American Red Cross, Birmingham

Darla Jean Reed
DISSEPTION TITLE: "Nuclear Oxidant Stress in Hypoxia"
MAJOR PROFESSOR: Abu Bakr Al-Mehdi, Ph.D.
DEPARTMENT: Pharmacology/Center for Lung Biology
CURRENT POSITION: Seeking Employment

Danalea V. Skarra
DISSEPTION TITLE: "Positive Modulation of Myometrial Small Conductance Ca^{2+}-Activated K⁺ Channels Inhibits Uterine Contraction and Delays Murine Preterm Parturition"
MAJOR PROFESSOR: Mark S. Taylor, Ph.D.
DEPARTMENT: Physiology
CURRENT POSITION: Postdoctoral Fellow; Department of Reproductive Endocrinology, University of California, San Diego
Rebecca Ann Torres  
**DISSEPTION TITLE:** “Slingshot Phosphatase Regulation of Cofilin Activation during Vascular Smooth Muscle Cell Migration and Neointima Formation Following Vascular Injury”  
**MAJOR PROFESSOR:** David S. Weber, Ph.D.  
**DEPARTMENT:** Physiology  
**CURRENT POSITION:** Postdoctoral Fellow, Department of Pathology, Emory University  

Audrey Anne Vasaukas  
**DISSEPTION TITLE:** “Expressions and Storage of Squirrel Monkey Chorionic Gonadotropin in the Pituitary Gland”  
**MAJOR PROFESSOR:** Jonathan G. Scammell, Ph.D.  
**DEPARTMENT:** Comparative Medicine  
**CURRENT POSITION:** Postdoctoral Fellow, Department of Biochemistry and Molecular Biology, USA
Summary of Extramural Support

Funding for the 2010-2011 academic year includes $12,305,820 and $4,330,016 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Last 5 Years

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>20,222,905</td>
</tr>
<tr>
<td>2008</td>
<td>20,818,609</td>
</tr>
<tr>
<td>2009</td>
<td>20,047,172</td>
</tr>
<tr>
<td>2010</td>
<td>44,124,327*</td>
</tr>
<tr>
<td>2011</td>
<td>16,635,836</td>
</tr>
</tbody>
</table>

*Includes 14.5 million dollar facilities improvement grant from NIH
# EXTRAMURAL FUNDING

(OCTOBER 1, 2010 – SEPTEMBER 30, 2011)

## BIOCHEMISTRY & MOLECULAR BIOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donna Cioffi</td>
<td>NIH 5 R00 HL089361-04</td>
<td>Inactivation of Endothelial I$_{soc}$ Through Calcium-Phosphate Complexation</td>
<td>$248,999.00</td>
</tr>
<tr>
<td>William Gerthoffer &amp; Rahkee Gupte</td>
<td>NIH 5 R01 HL077726-07</td>
<td>Small Heat Shock Proteins in Smooth Muscle Plasticy</td>
<td>$334,125.00</td>
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<tr>
<td>William Gerthoffer</td>
<td>NIH 5 R21 HL097220-02</td>
<td>Molecular Determinants of Smooth Muscle Phenotype in Pulmonary Hypertension</td>
<td>$185,625.00</td>
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<tr>
<td>Sachin Gupte</td>
<td>NIH 5 R01 HL085352-05</td>
<td>Regulation of Vascular Smooth Muscle Calcium by NADPH Redox</td>
<td>$367,500.00</td>
</tr>
<tr>
<td>Sachin Gupte</td>
<td>NIH/University of Maryland 120014</td>
<td>Cardiac Energy Metabolism in Heart Failure (Subcontract)</td>
<td>$20,353.00</td>
</tr>
<tr>
<td>Richard Honkanen</td>
<td>NIH 1 R01 HL110937-01</td>
<td>Methods to Enable Cholesterol Catabolism in Human Monocyte Derived Macrophages</td>
<td>$359,126.00</td>
</tr>
<tr>
<td>Petra Rocic &amp; Rebecca Hutchinson</td>
<td>AHA 11PRE 7690011</td>
<td>Regulation of Coronary Collateral Growth by microRNA in the Metabolic Syndrome</td>
<td>$22,180.00</td>
</tr>
<tr>
<td>Petra Rocic &amp; William Gerthoffer</td>
<td>NIH 5 R01 HL093052-04</td>
<td>Regulation of Coronary Collateral Growth in the Metabolic Syndrome</td>
<td>$362,552.00</td>
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<tr>
<td>Principal Investigator &amp; Agency</td>
<td>Project Title</td>
<td>Fiscal Year Funding</td>
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</tr>
<tr>
<td>-------------------------------</td>
<td>---------------</td>
<td>---------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Regulation of Coronary Collateral by microRNA in the Metabolic Syndrome (Supplement)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Petra Rocic &amp; Tracy Dodd</td>
<td>NIH 5 R01 HL093052-04S1</td>
<td>$42,833.00</td>
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</table>

**Total** $1,943,293.00

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**BIOMEDICAL LIBRARY**

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Judith Burnham</td>
<td>NIH/University of Maryland, SE 0001597</td>
<td>Exhibit at the Alabama Chapter, American Physical Therapy Association</td>
<td>$2,000.00</td>
</tr>
<tr>
<td>Justin Robertson</td>
<td>NIH/University of Maryland, 110186</td>
<td>Alabama Health Infonet for Public Libraries</td>
<td>$1,966.00</td>
</tr>
<tr>
<td>Beverly Rossini</td>
<td>NIH/University of Maryland, 110240</td>
<td>Medical Association State of Alabama Exhibit Award Through the National Network of Libraries of Medicine SEA</td>
<td>$1,707.00</td>
</tr>
<tr>
<td>Beverly Rossini &amp; Jie Li</td>
<td>NIH/University of Maryland, 110255</td>
<td>Alabama Pharmacy Association Annual Meeting Exhibit Grant Through the National Network of Libraries of Medicine SEA</td>
<td>$2,000.00</td>
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</table>

**Total** $7,673.00
## CELL BIOLOGY & NEUROSCIENCE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
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<tbody>
<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 5R01 RR031286-02</td>
<td>Mouse Models for Mitochondrial Disorders Caused by mtDNA Mutations</td>
<td>$358,888.00</td>
</tr>
<tr>
<td>Valentina 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>$40,000.00</td>
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<tr>
<td>Wensheng Lin</td>
<td>NNMS TA 3026-A-1-03</td>
<td>The Role of the PERK-epsilonF2alpha Pathway in MS/EAE</td>
<td>$137,500.00</td>
</tr>
<tr>
<td>Wensheng Lin</td>
<td>NIH 1R01 NS073132-01A1</td>
<td>The Effects of the Unfolded Protein Response on Medulloblastoma</td>
<td>$324,844.00</td>
</tr>
<tr>
<td>Sarah Sayner</td>
<td>AHA 11GRNT7430039</td>
<td>Bicarbonate Stimulated Soluble Adenylyl Cyclase Regulates Pulmonary Endothelial Barrier</td>
<td>$82,500.00</td>
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<tr>
<td>Glenn Wilson</td>
<td>NIH 5 R01 ES003456-25 Revised</td>
<td>Environmental Beta Cell Toxins - Mechanisms of Action</td>
<td>$305,613.00</td>
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**Total** $1,209,345.00

## CENTER FOR STRATEGIC HEALTH INNOVATIONS

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dan Roach</td>
<td>NCHI 90R C0055-01-SUPP</td>
<td>The Alabama Regional Extension Center</td>
<td>$620,806.00</td>
</tr>
<tr>
<td>Principal Investigator</td>
<td>Agency</td>
<td>Project Title</td>
<td>Fiscal Year Funding</td>
</tr>
<tr>
<td>------------------------</td>
<td>--------</td>
<td>---------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>Carl Taylor</td>
<td>HHSOC/ADPH C10114295 (CEP-15-QW2-12)</td>
<td>Health Care Facility Planning Assistance Pilot Project 2012</td>
<td>$64,459.00</td>
</tr>
<tr>
<td>Carl Taylor</td>
<td>HHSOS/ADPH C10114296 (CEP-16-QW-12)</td>
<td>Regional Response Planning 2012</td>
<td>$60,614.00</td>
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<tr>
<td>Carl Taylor</td>
<td>HHSOS/ADPH C10114294 (CEP-14-QW2-12)</td>
<td>Advance Regional Response Training Center - Roadshow ARRTC 2012</td>
<td>$257,391.00</td>
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<tr>
<td>Carl Taylor</td>
<td>HHSOS/ADPH C10114298 (CEP-3-QW2-12)</td>
<td>Alabama Incident Management System - AIMS 2012</td>
<td>$154,902.00</td>
</tr>
<tr>
<td>Carl Taylor</td>
<td>HHSOS/ADPH C10114292 (CEP-13-QW2-12)</td>
<td>Advanced Regional Response Training Center – Basic ARRTC 2012</td>
<td>$497,877.00</td>
</tr>
<tr>
<td>Carl Taylor</td>
<td>HHSOS/ADPH C10114297 (CEP-12-QW-1-12)</td>
<td>Advanced Regional Response Training Center – Advanced ARRTC 2012</td>
<td>$138,024.00</td>
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<tr>
<td>W. Scott McNair</td>
<td>Boehringer Ingelheim</td>
<td>A Randomized, Double-Blind, Double Dummy, Active Controlled, Parallel Group, Forced Titration Study to Compare the Fixed-Dose Combination of Telmisartan 80mg Plus Hydrochlorothiazide 25mg (T80/HCTZ25) Versus Telmisartan 80 mg (T80) Monotherapy as First Line Therapy in Patients With Severe Hypertension</td>
<td>$5,643.00</td>
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<tr>
<td>Frank Pettyjohn</td>
<td>Bayer Healthcare Pharmaceuticals, Inc.</td>
<td>A Multicenter, 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>$4,501.00</td>
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<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>$55,782.00</td>
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<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>$5,215.00</td>
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<tr>
<td>Carol Motley</td>
<td>HRSA 1 D56 HP23279-01-00</td>
<td>Pre Doctoral Training in Primary Care</td>
<td>$176,513.00</td>
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<td>Carol Motley</td>
<td>AFPRHB 110202</td>
<td>A Student Curriculum in FM for the Medical Students at the University of South Alabama School of Medicine.</td>
<td>$44,500.00</td>
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<td>Allen Perkins</td>
<td>HRSA 1 D58 HP23236-01-00</td>
<td>Residency Training in Primary Care Program</td>
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<td>Allen Perkins</td>
<td>AFPRHB 100384</td>
<td>Student Preceptorship</td>
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<td>Allen Perkins</td>
<td>AFPRHB 110201</td>
<td>A Resident Curriculum in Rural Family Medicine</td>
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**INTERNAL MEDICINE**

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<tr>
<td>Diego Alvarez</td>
<td>AHA 0835134N-04</td>
<td>Infusion of Resident Endothelial Progenitors Promotes Repair of Microvascular Barrier During Acute Lung Injury</td>
<td>$77,000.00</td>
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<tr>
<td>Martha Arrieta</td>
<td>Office of Minority Health</td>
<td>Subcontract Between Morehouse School of Medicine and University of South Alabama</td>
<td>$18,542.00</td>
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**Total** $433,069.00
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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), Protocol No. NC20971</td>
<td>$5,762.00</td>
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<td>Errol Crook</td>
<td>NIH 5 P20 MD002314-05</td>
<td>Broad-Based Research Collaboratives on Minority Health and Health Disparities</td>
<td>$1,631,186.00</td>
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<td>Michael Culpepper</td>
<td>Otsuka Maryland Research Institute</td>
<td>A Phase 3, 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>$48,395.00</td>
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<td>Michael Culpepper</td>
<td>Amgen</td>
<td>EVOLVE - Evaluation of Cinacalcet HCI Therapy to Lower Cardiovascular Events</td>
<td>$9,488.00</td>
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<td>Michael Culpepper</td>
<td>Amgen</td>
<td>Randomized Trial to Evaluate the Efficacy and Safety of Cinacalcet Treatment in Combination with Low Dose Vitamin D for the Treatment of Subjects with Secondary Hyperparathyroidism (SHPT) Recently Initiating Hemodialysis</td>
<td>$9,578.00</td>
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<tr>
<td>Michael Culpepper</td>
<td>Dynavax/Accelovance</td>
<td>An Observer-Blinded, Randomized Study Comparing the Safety and Immunogenicity of HEPLISAV to License Vaccine (Energix-B) among Adults (18-75 Years of Age) with Chronic Kidney Disease (CKD)</td>
<td>$4,426.00</td>
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<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>$15,175.00</td>
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<td>Michael Culpepper</td>
<td>United Biosource Corporation</td>
<td>SPD405-404: A Phase-IV, Long Term, Observational Safety Study in End Stage Renal Disease Subjects Treated with Lanthanum Carbonate (Fosrenol)</td>
<td>$2,183.00</td>
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<tr>
<td>Karen Fagan</td>
<td>Actelion Pharmaceuticals US, Inc.</td>
<td>An Open-Label, Multi-Center Study Employing a Targeted 6-MWT Distance Threshold Approach to Guide Bosentan-Based Therapy and to Assess the Utility of MRI on Cardiac Remodeling</td>
<td>$2,000.00</td>
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<td>Karen Fagan</td>
<td>Actelion Pharmaceuticals US, Inc.</td>
<td>Pulmonary Arterial Hypertension Quality Enhancement Research Initiative Extension Program</td>
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<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>$5,500.00</td>
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<td>Karen Fagan</td>
<td>Bayer Schering Pharma</td>
<td>From Targets to Novel Drugs</td>
<td>$53,881.00</td>
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<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>Athena-1: A Randomized, Multicenter Study of Ambrisentan and Sildenafil Combination Therapy in Subjects with Pulmonary Arterial Hypertension Who Have Demonstrated a Sub-Optimal Response to Sildenafil</td>
<td>$6,800.00</td>
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<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>A Phase 2, Randomized, Double-Blind, Placebo-controlled, Multicenter, Dose-ranging Study of Cicletanine in Subjects with Pulmonary Arterial Hypertension</td>
<td>$32,890.00</td>
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<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>$4,000.00</td>
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<td>Karen Fagan</td>
<td>NIH 1 R13 HL108550-01</td>
<td>Groover Conference on Risk Factors in Pulmonary Hypertension</td>
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<td>Johnson Haynes</td>
<td>Emmaus Medical</td>
<td>A Phase III, Prospective, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study of L-Glutamine Therapy for Sickle Cell Anemia and Sickle B-Thalassemia</td>
<td>$19,375.00</td>
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<td>Johnson Haynes</td>
<td>Novartis Pharmaceuticals</td>
<td>Incidence of Secondary Iron Overload in Adults with Sickle Cell Disease (SCD) Following Chronic, Intermittent Red Blood Cell (RBC) Transfusions</td>
<td>$10,270.00</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 alfa-2b and Ribavirin in Treatment-Naive Patients with Chronic Genotype 1 Hepatitis C Virus Infection</td>
<td>$2,750.00</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>$25,290.00</td>
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<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>A Phase 3 Safety and Efficacy Study of Boceprevir in Subjects with Chronic Hepatitis C Genotype 1 Who Failed Prior Treatment with Peginterferon/Ribavirin</td>
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<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>A Phase 3 Safety and Efficacy Study of Boceprevir in Previously Untreated Subjects with Chronic Hepatitis C Genotype 1</td>
<td>$16,020.00</td>
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<tr>
<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>A Phase 3 Safety and Efficacy Study of Boceprevir in Combination With Peginterferon Alfa-2a and Ribavirin in Subjects With Chronic Hepatitis C Genotype 1 Who Failed Prior Treatment With Peginterferon/Ribavirin</td>
<td>$10,825.00</td>
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<tr>
<td>Jorge Herrera</td>
<td>Schering Plough Research Institute</td>
<td>A Phase 3 Safety and Efficacy Study of Erythropoietin Use During Treatment of Subjects With Chronic Hepatitis C With Boceprevir, Peginterferon Alpha-2b, and Ribavirin</td>
<td>$13,373.00</td>
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<tr>
<td>Clara Massey</td>
<td>Bristol Myers-Squibb</td>
<td>A Phase 3 , 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>$10,835.00</td>
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<td>Clara Massey</td>
<td>Novartis Pharmaceuticals</td>
<td>A Multicenter, Randomized, Double-Blind, Parallel Group, Active-Controlled Study to Evaluate the Efficacy and Safety of both Aliskiren Monotherapy and Aliskiren/Enalapril Combination Therapy Compared to Enalapril Monotherapy, on Morbidity, and Mortality in Patients with Chronic Heart Failure (NYHA Class II-IV)</td>
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<td>Masahiko Oka &amp; Ivan McMurtry</td>
<td>NIH 1 R21 HL106101-01</td>
<td>Cell-Targeted Drug Delivery for the Treatment of Pulmonary Arterial Hypertension</td>
<td>$230,625.00</td>
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<td>Bassam Omar</td>
<td>Hoffman-La Roche, Inc</td>
<td>A Multicenter, 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), #BC-22140</td>
<td>$5,600.00</td>
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<td>Bassam Omar</td>
<td>Schering Plough Research Institute</td>
<td>A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Safety and Efficacy of SCH 530348 in Addition to Standard of Care in Subjects with Acute Coronary Syndrome: Thrombin Receptor Antagonist for Clinical Event Reduction in Acute Coronary Syndrome</td>
<td>$23,100.00</td>
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<td>John Vande Waa</td>
<td>HRSA 5 H12 HA23027-11-01</td>
<td>University of South Alabama Family Specialty Clinic</td>
<td>$332,356.00</td>
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<td>John Vande Waa</td>
<td>HRSA/UWCA-RW-USAF-1112</td>
<td>USA Family Specialty Clinic Grant</td>
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**Total** $2,785,587.00
### MICROBIOLOGY & IMMUNOLOGY

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<tr>
<td>Robert Lausch</td>
<td>Lion's Club</td>
<td>Lion's/USA Eye Research</td>
<td>$18,120.00</td>
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<td>Paul Brett &amp; Mary Burtnick</td>
<td>NIH 1 R56 AI091783-01</td>
<td>Analysis of a Burkholderia Mallei Virulence-Associated Type VI Secretion System</td>
<td>$334,125.00</td>
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<td>Paul Brett &amp; Mary Burtnick</td>
<td>NIH 5 R21 A1088418-02</td>
<td>Development and Testing of Novel Glanders Vaccine Candidates</td>
<td>$183,769.00</td>
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<td>Joseph Brewer</td>
<td>NIH 5R01 GM061970-12</td>
<td>Homeostasis of the ER in Differentiating B Cells</td>
<td>$316,082.00</td>
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### MITCHELL CANCER INSTITUTE*

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<tr>
<td>Thomas Butler</td>
<td>Genentech</td>
<td>An Observational Study of Treatment Pattern and Safety Outcomes for Metastatic or Locally Recurrent Breast Cancer</td>
<td>$6,525.00</td>
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<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>
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<td>Thomas Butler</td>
<td>Novartis Pharmaceuticals</td>
<td>A Randomized, Double-Blind Phase III Study of RAD001 10mg/d Plus Best Supportive Care Versus Placebo Plus Best Supportive Care in the Treatment of Patients with Advanced Pancreatic Neuroendocrine Tumor (NET)</td>
<td>$16,323.00</td>
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<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>$17,760.00</td>
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<tr>
<td>Thomas Butler</td>
<td>Sarah Cannon Research Institute</td>
<td>A Randomized Trial of Ixempra vs. Taxol in Adjuvant Therapy of Triple-Negative Breast Cancer (TITAN)</td>
<td>$7,650.00</td>
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<tr>
<td>Donato Dumiao</td>
<td>Wyeth Research</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Study of the Efficacy and Safety of a Fixed-Dose of Subcutaneous Methylaltedrene in Patients with Advanced Illness and Opioid-Induced Constipation</td>
<td>$4,396.00</td>
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<tr>
<td>Hung Khong</td>
<td>Abraxis</td>
<td>ABX238-BC08US/ A Phase I Study of Neoadjuvant Chemotherapy with Nanoparticle Albumin Bound Paclitaxel (Abraxane), Doxorubicin, and Cyclophosphamide (NAC) with or without Sorafenib in Patients with Stage I and Stage III Breast Cancer</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>$11,880.00</td>
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<tr>
<td>Hung Khong</td>
<td>Astellas</td>
<td>A Phase II, Multicenter, Open-Label Study of YM155 Plus Docetaxel in Subjects Stage III (Unresectable) or Stage IV Melanoma</td>
<td>$30,972.00</td>
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<tr>
<td>Hung Khong</td>
<td>Novartis Pharmaceuticals</td>
<td>A Randomized, Open-Label Study of 400mg Versus 800mg of Gleevec/Glivec (Imatinib Mesylate) in Patients with Newly Diagnosed, Previously Untreated Chronic Myeloid Leukemia in Chronic Phase (CML-CP) Using Molecular Endpoints</td>
<td>$4,540.00</td>
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<td>Hung Khong</td>
<td>Pfizer</td>
<td>A Phase 3 Study of SU011248 in Combination with Paclitaxel Versus Bevacizumab with Paclitaxel in the First-Line Advanced Disease Setting in Patients Having Breast Cancer</td>
<td>$425,919.00</td>
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<tr>
<td>Hung Khong</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>
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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>$18,488.00</td>
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<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>$34,515.00</td>
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<tr>
<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>$6,603.00</td>
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<tr>
<td>William Taylor</td>
<td>Novartis Pharmaceuticals</td>
<td>An Open-Label Multicenter 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>
<td>$25,109.00</td>
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*SAMSF Projects Only

Total $677,031.00
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<tr>
<td>Bassam Bassam</td>
<td>Novartis Pharmaceuticals</td>
<td>A 24-Month Double-Blind, Randomized, Multicenter, 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>$52,902.00</td>
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<tr>
<td>Paul Maertens</td>
<td>Pfizer</td>
<td>A Placebo-Controlled, Rising Dose, Multiple Dose Study to Evaluate the Safety, Tolerability and Pharmokinetics of Pregabalin in Pediatric Patients with Partial Onset Seizures</td>
<td>$11,088.00</td>
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<td>Paul Maertens</td>
<td>Pfizer</td>
<td>A 12-Month Open-Label Extension Study Evaluating the Safety and Tolerability of Flexible Doses of Pregabalin in Pediatric Patients with Partial Onset Seizures</td>
<td>$6,544.00</td>
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**OBSTETRICS & GYNECOLOGY**

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<tr>
<td>Susan Baker</td>
<td>Sequenom</td>
<td>SQNM-T21-202/Noninvasive Screening for Fetal Aneuploidy: A New Maternal Plasma Marker</td>
<td>$7,838.00</td>
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<td>Cynthia Messer &amp; Craig Sherman</td>
<td>March of Dimes</td>
<td>Centering Pregnancy Project @ The University of South Alabama</td>
<td>$7,000.00</td>
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<tr>
<td>Stephen Varner</td>
<td>ADPH C01114002 (GC# 11-002)</td>
<td>FY2011 Perinatal Coordinator Grant</td>
<td>$11,500.00</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>$2,500.00</td>
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<tr>
<td>Valentina Grishko &amp; Albert Pearsall</td>
<td>Musculoskeletal Transplant Foundation 090-395-02</td>
<td>Effect of Hyaluronic Acid on Chondrocyte Viability and Function During Cold Storage</td>
<td>$100,000.00</td>
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**PEDIATRICS**

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<tbody>
<tr>
<td>Karen Crissinger</td>
<td>Centocor, Inc.</td>
<td>A Multicenter, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease</td>
<td>$41,136.00</td>
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<tr>
<td>Karen Crissinger</td>
<td>Johnson &amp; Johnson PR&amp;D</td>
<td><strong>A Multicenter, Double-Blind, Parallel Group, and Open-Label Long-Term Maintenance Study to Evaluate the Safety and Efficacy of Rabeprazole Sodium Delayed Release Pediatric Bead Formulation in 1 to 11 Year Old Pediatric Subjects with Symptomatic and Erosive Gastroesophageal Reflux Disease</strong></td>
<td>$13,122.00</td>
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<tr>
<td>Karen Crissinger</td>
<td>Johnson &amp; Johnson PR&amp;D</td>
<td><strong>A Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Parallel-Group, Withdrawal Study to Evaluate the Safety and Efficacy of Delayed-Release Rabeprazole in 1 to 11 Month Old Pediatric Subjects with Symptomatic/Erosive Gastroesophageal Reflux Disease (GERD)</strong></td>
<td>$18,704.00</td>
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<tr>
<td>Benjamin Estrada</td>
<td>NIH/UAB N01-A1-30025-01-02</td>
<td><strong>A Phase 3, Randomized, Placebo-controlled, Blinded Investigation of Oral Valganciclovir for Congenital CMV</strong></td>
<td>$17,550.00</td>
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<tr>
<td>Fabien Eyal</td>
<td>Biosynexus</td>
<td><strong>A Phase 2b/3, Multi-Center, Randomized, Double-Blind, Placebo Controlled Trial to Evaluate the Safety and Efficacy of Pagibaximab Injection in Very Low Birth Weight (VLBW) Neonates for the Prevention of Staphylococcal Sepsis</strong></td>
<td>$264,421.00</td>
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<tr>
<td>Fabien Eyal</td>
<td>NIH/Yale University A08383(M09A10144)</td>
<td><strong>Gene Targets for IVH (Subcontract)</strong></td>
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<tr>
<td>Anne-Marie Kaulfers</td>
<td>ADPH C10114117 (CG# 11-205)</td>
<td>Endocrinology Clinic for State Newborn Screening Program</td>
<td>$54,649.00</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>$14,563.00</td>
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<td>Lawrence Sindel</td>
<td>CFF C002-11/Center ID #101</td>
<td>Cystic Fibrosis Foundation Care Center</td>
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<tr>
<td>Lawrence Sindel</td>
<td>ADPH C10114116 (GC# 11-204)</td>
<td>Cystic Fibrosis Clinic for State Newborn Screening Program</td>
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<td>Felicia Wilson</td>
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<td>Children's Oncology Group Grant</td>
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<td>Felicia Wilson</td>
<td>NIH/NCCF 98543-1234-02</td>
<td>Children's Oncology Group Grant</td>
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<td>Felicia Wilson</td>
<td>ADPH C10114118 (GC# 11-206)</td>
<td>Comprehensive Sickle Cell Clinic for State Newborn Screening Program</td>
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<td>Felicia Wilson</td>
<td>NIH/NCCF CA98543-08-02</td>
<td>Children's Oncology Group Grant</td>
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**Total** | $534,372.00 |
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<tr>
<td>Natalie Bauer</td>
<td>NIH R03 HL110828-01</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>Gilead Sciences 10-090393-01</td>
<td>Potential Role of Circulating Microparticles in Pulmonary Arterial Hypertension: Progression and Treatment Assessment</td>
<td>$50,000.00</td>
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<tr>
<td>Natalie Bauer</td>
<td>AHA 11SDG7390037</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 &amp; Glenn Wilson</td>
<td>5 R01 HL058234-11</td>
<td>DNA Lesions &amp; Gene Expression in Hypoxic Lung Disease</td>
<td>$371,250.00</td>
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<td>Ivan McMurtry &amp; Salina Gairhe</td>
<td>AHA 11POST7720023</td>
<td>Sphingosine 1 Phosphate Mediates Sustained Vasoconstriction in Pulmonary Arterial Hypertension</td>
<td>$41,740.00</td>
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<tr>
<td>Ivan McMurtry &amp; Masahiko Oka</td>
<td>Pfizer 100404</td>
<td>Efficacy of Sunitinib, Terguride, and Their Contribution in Treatment of Severe Pulmonary Arterial Hypertension</td>
<td>$100,000.00</td>
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<tr>
<td>Mykhaylo Ruchko &amp; Viktor Pastukh</td>
<td>NIH R21 HL102789-01A1</td>
<td>Role of Oxidative Modifications to D-loop Region in mTDNA Replication in Hypoxia</td>
<td>$185,625.00</td>
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<tr>
<td>Troy Stevens &amp; Glenda Bonilla</td>
<td>AHA 10PRE4320054-02</td>
<td>Essential Role of Lactate Dehydrogenase A (LDHA) in Lung Neo-Angiogenesis</td>
<td>$21,770.00</td>
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### PHARMACOLOGY (cont'd)

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<tr>
<td>Troy Stevens</td>
<td>NIH 1F31HL107122-01A1 Revised</td>
<td>Microtubule Stability in Lung Endothelium</td>
<td>$27,528.00</td>
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<tr>
<td>Troy Stevens</td>
<td>NIH 5 R37 HL060024-14</td>
<td>Store Operated Ca2+ Entry: Lung Endothelial Permeability</td>
<td>$371,250.00</td>
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<tr>
<td>Songwei Wu</td>
<td>NIH 1 R01 HL109186-01</td>
<td>T-type Calcium Channels and Neutrophil Transmigration</td>
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### PHYSIOLOGY

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<tr>
<td>Stephen Ballard</td>
<td>CFF Therapeutics BALLAR07XX0-03</td>
<td>Mucociliary Clearance Consortium</td>
<td>$108,000.00</td>
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<tr>
<td>Michael Cohen</td>
<td>Otsuka Maryland Medicinal Laboratories</td>
<td>Evaluation of Cardioprotective Effect of Cangrelor in Cardiac Ischemia Reperfusion Injury Model in Cynomolgus Monkeys Using Open Chest Method</td>
<td>$34,239.00</td>
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<tr>
<td>James Downey</td>
<td>Bayer HealthCare AG</td>
<td>Inhibition of Ischemic Injury by Activation of A1 Receptors by a New A1 Receptor Agonist BR-5470</td>
<td>$9,375.00</td>
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<tr>
<td>James Downey</td>
<td>NIH 5 R01 HL020648-31</td>
<td>Physical Factors and Coronary Flow</td>
<td>$287,231.00</td>
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### PHYSIOLOGY (cont’d)

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<tr>
<td>Thomas Lincoln</td>
<td>NIH 2 R01 HL066164-11</td>
<td>Expression of PKG in Vascular Smooth Muscle Cells</td>
<td>$371,250.00</td>
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<tr>
<td>Mark Taylor</td>
<td>NIH 5 R01 HL085887-05 Revised</td>
<td>Coronary Artery Regulation by Small Conduction Ca$^{2+}$-activated K+ Channels</td>
<td>$257,250.00</td>
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<td>Mary Townsley</td>
<td>GlaxoSmithKline</td>
<td>Research Collaboration Agreement-GSK-MPCEDD (TRPV4)</td>
<td>$18,375.00</td>
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<tr>
<td>Mary Townsley</td>
<td>NIH 5 T32 HL076125-08</td>
<td>Training in Cell Signaling and Lung Pathobiology</td>
<td>$199,476.00</td>
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<td>David Weber</td>
<td>NIH 5 R01 HL084159-04</td>
<td>Reactive Oxygen Species Regulation on Vascular Smooth Muscle Cell Migration</td>
<td>$330,750.00</td>
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**Total** $1,615,946.00

### SURGERY

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<tr>
<td>Patrick Bosarge</td>
<td>KCI USA</td>
<td>A Prospective Study Examining Clinical Outcomes Associated with the Management of the Open Abdomen with the ABTHERA Open Abdomen Negative Pressure Therapy System and Barker’s Vacuum Packing Technique</td>
<td>$4,716.00</td>
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<tr>
<td>Arnold Luterman</td>
<td>Mylan Pharmaceuticals</td>
<td>Prospective Evaluation of the Effects of Topical Therapy with Sulfamylon for 5% Topical Solution on Autograft Healing in Subjects with Thermal Injuries Requiring Meshed Autografts: A Comparison to a Historical Control Group</td>
<td>$13,750.00</td>
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<td>Arnold Luterman</td>
<td>Rib-X Pharmaceuticals</td>
<td>A Phase 2 Exploratory Study of Objective Endpoints in Subjects with Acute Bacterial Skin and Skin Structure Infections Treated with Delfloxacin, Vancomycin, or Linezolid</td>
<td>$3,000.00</td>
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<tr>
<td>Arnold Luteman</td>
<td>The Medicines Company</td>
<td>A Multicenter, Double-Blind, Randomized Study to Evaluate the Efficacy and Safety of Single-Dose IV Oritavancin versus IV Vancomycin for the Treatment of Patients with Acute Bacterial Skin and Skin Structure Infection (SOLO I)</td>
<td>$2,500.00</td>
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<td>William Richards</td>
<td>NIH/VUMC</td>
<td>Biomagnetic Characterization of Gastric Dysrhythmias (Subcontract)</td>
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<td>William Richards</td>
<td>NIH 5 R01 DK058197-08</td>
<td>Biomagnetic Signals of Intestinal Ischemia</td>
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<td>Paul Rider</td>
<td>Ethicon Endo-Surgery</td>
<td>Assessment of a Slotted Anoscope that Facilitates Hemorrhoidectomy</td>
<td>$2,672.00</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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