ANNUAL REPORT
UNIVERSITY OF SOUTH ALABAMA
COLLEGE OF MEDICINE

October 1, 2013 through September 30, 2014
# TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>I. Reports from Departments and Centers</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry and Molecular Biology</td>
<td>1</td>
</tr>
<tr>
<td>Cell Biology and Neuroscience</td>
<td>5</td>
</tr>
<tr>
<td>Comparative Medicine</td>
<td>9</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>11</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>14</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>16</td>
</tr>
<tr>
<td>Microbiology and Immunology</td>
<td>27</td>
</tr>
<tr>
<td>Neurology</td>
<td>32</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>37</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>39</td>
</tr>
<tr>
<td>Orthopaedic Surgery</td>
<td>46</td>
</tr>
<tr>
<td>Pathology</td>
<td>50</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>54</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>66</td>
</tr>
<tr>
<td>Physiology</td>
<td>75</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>80</td>
</tr>
<tr>
<td>Radiology</td>
<td>87</td>
</tr>
<tr>
<td>Surgery</td>
<td>91</td>
</tr>
<tr>
<td>Biomedical Library</td>
<td>100</td>
</tr>
<tr>
<td>Center for Lung Biology</td>
<td>106</td>
</tr>
<tr>
<td>Center for Healthy Communities</td>
<td>109</td>
</tr>
<tr>
<td>Center for Strategic Health Innovation</td>
<td>113</td>
</tr>
<tr>
<td>Comprehensive Sickle Cell Center</td>
<td>118</td>
</tr>
<tr>
<td>II. Report from Office of Development and Alumni Relations</td>
<td>122</td>
</tr>
<tr>
<td>III. Report from Division of Medical Education and Student Affairs</td>
<td>124</td>
</tr>
<tr>
<td>IV. Report from Admissions</td>
<td>142</td>
</tr>
<tr>
<td>V. Report from Continuing Medical Education</td>
<td>146</td>
</tr>
<tr>
<td>VI. Report from Graduate Medical Education</td>
<td>147</td>
</tr>
<tr>
<td>VII. Report from Medical Student Summer Research Program</td>
<td>151</td>
</tr>
<tr>
<td>VIII. Report from the Graduate Program in Basic Medical Sciences</td>
<td>156</td>
</tr>
<tr>
<td>IX. Summary of Extramural Support</td>
<td>160</td>
</tr>
</tbody>
</table>
FOREWORD

The Annual Report of the College of Medicine provides an update on recent accomplishments of our faculty, students, residents, fellows and staff. Areas highlighted in the report include accomplishments in teaching, research, patient care, community service and scholarly contributions during the 2013-2014 academic year. Our greatest responsibility is to educate the next generation of physicians and biomedical scientists and train them to become skilled, compassionate, evidenced-based practitioners focused on improving the human condition and advancing our fundamental understanding of biomedical science. Student performance following significant changes in the first and second year curricula has been positive and our graduating seniors continue to obtain strong residency positions at excellent institutions in a variety of clinical disciplines. Incorporation of active learning exercises, standardized patient experiences, and simulation scenarios has been increased during many of the required third year clerkships, and this has led to improvements in performance on the discipline-based exams in these courses. Several administrative changes occurred in leadership that were prompted by either retirement and/or health issues, including the departmental heads of Cell Biology and Neuroscience, Orthopaedics, and Physiology. Together, these presented challenges to our desire to avoid compromising the educational and other missions of our college in the face of financial reductions in state funding and changing reimbursements in clinical revenues and the pending impact of the Affordable Care Act and other changes in health care looming on the horizon. This year’s annual report is dedicated to the late Dr. Fred Meyer for his many contributions to orthopaedic medicine, particularly the field of hand surgery; and also two of our retiring chairs of basic science, Drs. Glenn Wilson (Anatomy, Cell Biology and Neurosciences) and Tom Lincoln (Physiology) for their outstanding contributions in medical education, longstanding commitments to biomedical research, and the training of biomedical scientists in their respective fields.

Samuel J. Strada, Ph.D., Dean
University of South Alabama
College of Medicine
2013 - 2014  
Summary of Scholarly Activities  
Department of Biochemistry & Molecular Biology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


McClinton A, Cioffi D, Cioffi E. Production of neuraminidase by pseudomonas aeruginosa. FASEB J. 2014;28:790.3


III. PUBLISHED BOOKS
IV. INVITED PRESENTATIONS

Honkanen RE. Invited speaker. Enabling cholesterol catabolism in human cells. NIH common fund high-risk high-reward research symposium. 2013 Nov 19; Bethesda, MD.


Lim ST. Invited speaker. Focal adhesion kinase and melanoma metastasis to the lymph nodes. USA Mitchell Cancer Institute. 2014 Jul 29; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Cioffi DL. Reviewer: American Lung Association Study Section; Journal Peer Review: Antioxidants and Redox Signaling, Experimental Lung Research, Pulmonary Pharmacology and Therapeutics

Gerthoffer WT. Planning Committee Member, RSF Assembly of the Amer. Thoracic Society; Co-chair NIH, SEP Asthma, Allergy, and Environmental Exposure; Reviewer, Oak Ridge Associated Universities, Junior Faculty Enhancement Awards; Reviewer, Nottingham Research Fellowships, Univ. Nottingham, UK; Reviewer Swiss National Science Foundation; Editorial Boards: Amer. J. Physiology, Cell Physiology, Amer. J. Physiology, Lung Cell and Molecular, Cell Health and Cytoskeleton, Comprehensive Physiology, Frontiers in Pharmacology; Associate Editor: Respiratory Physiology.

Honkanen RE. Review Group Panel Member, NIH ZRG1 BST-J51-NIH Roadmap Initiative (Assay Development for High Throughput Molecular Screening); Editorial Boards: The Open Enzyme Inhibition Journal JBC, JCB, Nature, PNAS, and many lesser journals.


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Educational activities in the department are mainly in the undergraduate medical curriculum and the BMS graduate training program. Several faculty members continue to contribute to the modified systems-based medical curriculum. The faculty developed case-based lectures; self-directed learning lessons as well as team-based learning lessons to the Foundations of Human Health module and the Cardiovascular module. Biochemistry faculty delivered significant content on nutritional biochemistry and metabolism in Digestive module, which was well received by the first year students. In addition to the medical curriculum faculty members are established contributors to multiple IDL graduate courses. Eight graduate students representing
Lung Biology, Vascular Biology, Cancer Biology and Cell and Molecular Biology tracks of the graduate program were mentored by department faculty members. One student (B. Comer) received abstract awards at the 2014 American Thoracic meeting for his work on epigenetic mechanisms regulating gene expression in airway smooth muscle. The department also contributed to biomedical science education by hosting freshman and sophomore medical students and an undergraduate researcher.

Research activity in department labs focuses on cancer cell biology, cardiovascular science and lung diseases. Dr. Donna Cioffi is funded by NIH to study calcium signaling in pulmonary vascular endothelium. Dr. Steve Lim is funded by a Scientist development grant from AHA National Center to investigate novel nuclear functions of focal adhesion kinase. The senior faculty R. Honkanen (Protein phosphatase-5, cholesterol metabolism) and W. Gerthoffer (small heat shock proteins, miRNAs in pulmonary hypertension, markers of atherosclerosis) continue to be supported by multiple NIH grants. In addition, new grant applications from every faculty member have either been submitted, or are in development. The department instituted a formal review process for grant submission in which the faculty serves as an informal peer review panel. The goal is to enhance the quality of the proposals at an early stage of development. One student Jared McLendon (Gerthoffer) was supported by a pre-doctoral fellowship from the American Heart Association. The faculty funding levels and impact of their scholarship compares favorably with national standards. The faculty also contribute significantly to regional and national peer review, serving on peer review committees for AHA, the NIH and American Cancer Society as well as ad hoc service for international granting agencies. Several faculty members serve on journal editorial boards and contribute regularly as journal reviewers. With a solid base of funded, productive biomedical researchers the department anticipates continued growth in scholarship and impact on our respective scientific fields.

Several faculty members and students were honored by receiving prestigious awards and fellowships. Dr. Richard Honkanen was the 2014 recipient of the Mayer Mitchell Award for Excellence in Cancer Research. Dr. Donna Cioffi received the Giles F. Gilley award from the American Physiological Society for Excellence in Respiratory Physiology and Medicine. Dr. William Gerthoffer was honored by the College of Medicine class of 2014 with a Red Sash for teaching performance. Dr. Brian Comer won an abstract award from the Respiratory Structure and Function assembly of the American Thoracic Society. Mr. Jared McLendon received a predoctoral fellowship from the American Heart Association.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Zha XM. Invited speaker. Acid-sensing ion channels and neuron function. Institute for Brain and Cognition, Beijing Normal University; 2014 Jun 17; Beijing, China.

Zha XM. Invited speaker. Acid-sensing ion channels and neuron function. Neuroscience Research Institute and Center for Pain Medicine, Beijing University School of Medicine; 2014 Jun 18; Beijing, China.
Zha XM. Invited speaker. Acid-sensing ion channels and neuron function. Department of Biochemistry and Molecular Biology, Shanghai Jiao Tong University; 2014 Jun 23; Shanghai, China.

V. NATIONAL PROFESSIONAL RECOGNITION


Ronald Baldczon: Grant Reviewer, Florida Department of Health; Journal Peer Reviewer: *Cell Motility and the Cytoskeleton*, *Molecular Biology of the Cell*, *Virology*, *BMC Microbiology*.


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

Susan LeDoux: NIH NIEHS Ad hoc member of the Board of Scientific Counselors; Grant Reviewer, NIH NIEHS K99/R00 grants; Editorial Board Member, *DNA Repair*; Journal Peer Reviewer: *DNA Repair*, *Science, Brain Research, Aging and Development*, *J Neuroscience, Carcinogenesis, Nucleic Acids Research*; Member, Physiology and Cell Biology Item Writing Committee; NBME.


Glenn Wilson: Member, Editorial Board, *Molecular Development and Aging*; Member, NIH Fellowship Study Section for Genes, Genomes and Genetics; Member, NIH F08 Study Section, Member & Chair, various NIH Study Section phone & video conferences; 2014 Distinguished Service Award sponsored by the Medical Alumni Association, University of South Alabama.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department placed a strong emphasis on both teaching and research. To enhance its research efforts, the Department sponsored a visit from a highly distinguished scientist. Dr. Douglas Wallace from Children’s Hospital of Philadelphia and the University of Pennsylvania is a leading authority on mitochondrial DNA genetics. He presented a seminar titled “A mitochondrial etiology of metabolic & degenerative diseases, cancer & aging” on February 20, 2014.

The Department continued to play a vital role in the teaching mission in the College of Medicine. Department faculty members have participated in every module in the new curriculum and have served as Module Directors in three of these. In addition, faculty members from this Department participated in the teaching of IDL I and IDL II, the Methods course and the Seminar course for first year graduate students. Moreover, they taught in IDL 630 and 631 for more advanced graduate students. In the area of resident training, a course on Pelvic Anatomy was provided for Residents in the Department of Obstetrics and Gynecology. Finally, a Department member was responsible for curriculum coordination of the summer DREAM Program.

In April the Department Chair Dr. Glenn Wilson retired after 34 years of service to the University. Dr. Samuel Strada became the Interim Chair following Dr. Wilson’s resignation and will remain in this position until either new leadership is recruited or the Department is changed as a result of reorganization in the College of Medicine.

Note: The department was merged at the beginning of the 2014-2015 academic year with the Department of Physiology to be named the Department of Physiology and Cell Biology.
2013-2014
Summary of Scholarly Activities
Department of Comparative Medicine

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION


Dr. A. Michele Schuler: Reviewer, American Journal of Primatology, the Journal of Medical Primatology, Journal of the American Association of Laboratory Animal Science, and Comparative Medicine.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The faculty and staff of the Department of Comparative Medicine participate in service, education, and research in the university’s animal care and use program. The department continues to upgrade and maximize the use of facilities with the goal of enhancing research and teaching capabilities for the benefit of investigators throughout the university. The department supports the activities of the Vevo high resolution ultrasound imaging system from VisualSonics, the hypoxia core for the development of pulmonary hypertensive rodents, the Pseudomonas delivery core, Kimtron, Inc. IC-320 irradiator, IVIS Spectrum Imaging System, and histology services.

Extraordinary effort has been expended this year on three distinct projects: (1) the development of CDC-approved infrastructure for animal research activities in the newly constructed BSL-3 Laboratory of Infectious Diseases; (2) a swine model of cystic fibrosis; (3) preparation for accreditation review by AAALAC International.

The faculty continued formal and informal educational commitments within the department to technical staff, supervisors, and colleagues and outside the department to graduate students, postdoctoral fellows, and faculty. Dr. Schuler’s commitment to collaboration and education reaches broadly within the medical school with formal interaction with research groups in the Mitchell Cancer Institute and the Departments of Microbiology and Immunology, Cell Biology and Neuroscience, and Physiology. She serves as a co-investigator on a project spearheaded by Drs. Brett and Burtnick to
develop a vaccine against *Burkholderia pseudomallei*. Dr. Scammell continues his collaboration with Dr. Donna Cioffi in the Department of Biochemistry and Molecular Biology. Members of the department play significant roles in other aspects of college and university life as well. Dr. Schuler serves as a standing member of Animal Care and Use and Biosafety Committees. Dr. Scammell serves as Assistant Dean for Admissions, Vice-Chair of the Admissions Committee, Co-Director of the Endocrinology and Reproduction Module, and Chair of the Module Directors Committee, the MD with Research Honors Committee, and the University’s Scholarship and Financial Aid Committee.
2013 - 2014
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


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, 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 Member, State of Alabama Medicaid Drug Utilization Review Board; Member, Association of American Medical Colleges (AAMC), Council of Faculty and Academic Societies; Medical Director, Region 6, State of Alabama (GulfCoast) EMS Region, Peer Reviewer, Journal of Aviation, Space, and Environmental Medicine.
Terry N. Rivers serves in the following positions: Member, Emergency Medicine Services Committee, Alabama College of Emergency Physicians (Alabama Chapter).

Michael L. Sternberg serves in the following positions: Board of Directors, Alabama Chapter, American College of Emergency Physicians, 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, and Vice President for Health Sciences, and the Faculty. Recruitment of additional faculty continues in order 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 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 Clinical Medicine courses in the second year. Michael Sternberg, M.D. directs the teaching activities for the third- and fourth-year medical student elective and the Acting Intern Program. Frank S. Pettyjohn, M.D. serves as Medical Director, School of Continuing Education, and 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 American College of Emergency Physicians Medical Director and leadership courses are considered a priority.

CLINICAL FACILITIES: During the 2013-2014 program year, the Department of Emergency Medicine continued to support the operations of the University of South Alabama Medical Center, Level I Trauma Center, Burn Center, Stroke 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, digital photographic laboratory,
PowerPoint slide development and presentation production areas, and a computer learning system. A simulation laboratory is available in the USA Medical Center. The overall computer support system in the University of South Alabama Medical Center Emergency Department providing ready access to clinical laboratory records, and radiology data. An Electronic Medical Record System (EMR) is scheduled for implementation in 1st quarter of fiscal year 2015. The ED has updated the computer and viewing screens for teleradiology, which provides the same resolution as the Department of Radiology. A teleconference 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 transfer and treatment 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 nineteenth 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 Director of the Clinical Research Division. All members of the Attending Faculty of the Department of Emergency Medicine support the ongoing clinical research studies. Current projects cover a wide range of clinical areas, ranging from anti-hypertensive agent trials, combined hypertension with diabetes trials, and coronary artery diseases trials. Two NIH grant studies have been initiated to include anti-inflammatory trials in coronary artery disease and epidemiologic studies of BP oil spill exposure to personnel. This clinical research provides a unique research opportunity, enhances clinical support, and provides an additional educational location for the Department of Emergency Medicine.
2013-2014
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

Duffy RL. Invited speaker. Maximizing medication favorites. NextGen National Users Group Meeting; 2013 Nov 12; Las Vegas, NV.

Linder MM. Invited speaker. Compartment syndrome in an athlete following ankle sprain. Annual Meeting of the American Medical Society for Sports Medicine; 2014 Apr 7; New Orleans, LA.

Linder MM. Invited speaker. Beyond the PPE. Alabama Academy of Family Physicians Annual Meeting; 2014 Jun 26; Destin, FL.


Perkins A. Invited speaker. Obamacare! West Mobile Rotary Quarterly Meeting; 2014 Jun 3; Mobile, AL.

Perkins A. Invited speaker. Population health – dealing with the 5% and the rising risk patients. Alabama Academy of Family Physicians Annual Meeting; 2014 Jun 26; Destin, FL.

Perkins A. Invited speaker. Obamacare! Forum on Alabama’s Medicaid Program: Considerations for Expansion sponsored by Eastern Shore Democrats; 2014 Sep 23; Fairhope, AL.

V. NATIONAL PROFESSIONAL RECOGNITION


Perkins, R. Allen: Member, Advisory Committee on Training in Primary Care Medicine and Dentistry, U. S. Health Resources and Services Administration. Reviewer, Family Medicine, American Family Physician; President, Alabama Rural Health Association; Member, Alabama Academic Family Medicine Council; Member, Alabama Statewide Area Health Education Centers Advisory Council.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Shyla Reddy resigned her faculty position as of September 30 after having served in the department since 2003 as Assistant Professor and Geriatrician. She will continue her career in private practice in Atlanta, GA.

Dr. Lamar Duffy was honored by the Family Medicine graduating residents as “Clinical Teacher of the Year.” Dr. Duffy continues to be the lead physician overseeing the implementation of USA’s Electronic Health/Medical Record (HER/EMR) software. He received Board Certification (2014 – 2024) from the American Board of Preventive Medicine as a specialist in clinical informatics.

Dr. Ehab Molokhia was honored with the USAMC’s first USA Medication Safety Award. The award recognizes his efforts to prevent medication errors through a process that he has helped create and refine over the past seven years. The process has been cited as a best practice by the JCAHO.

Dr. Allen Perkins was among the six USA physicians named “Top Doctors” by U. S. News and World Report. The selection process is based on a rigorous research process that begins with mail and telephone surveys of board certified physicians.

Dr. Ehab Molokhia, Dr. Carol Motley, and Dr. Allen Perkins were recognized by the College of Medicine Class of 2014 as Distinguished Faculty.
2013-2014
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF INTERNAL MEDICINE

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS


Bessette S. Invited speaker. Thrombotic thrombocytopenic purpura. Mobile Infirmary Hospital Grand Rounds; 2014 Apr 15; Mobile, AL.

Broughton W. Invited speaker. Fatal familial insomnia - Prion disease: past, present, and future. Meet the Professor Session. SLEEP; 2014 Jun 3; Minneapolis, MN.

Cash BD. Invited speaker. Barrett’s esophagus. Gut Club; 2014 Apr 16; Mobile, AL.

Cash BD. Invited speaker. Update in colorectal cancer screening. Grand Rounds, Methodist Hospital; 2013 Dec 10; Houston, TX.

Cash BD. Invited speaker. Gluten. Digestive Disease Week; 2014 May 5; Chicago, IL.

Cash BD. Invited speaker. Colorectal cancer screening. Clinical Triad, Annual ACP Meeting; 2014 Apr 10; Orlando, FL.

Cash BD. Invited speaker. Epidemiology and statistics for the GI certification examination. William Steinberg GI Board Review; 2013 Oct 9; Arlington, VA.

Cash BD. Invited speaker. Colon question potpourri. William Steinberg GI board review; 2013 Oct 9; Arlington, VA.


Di Palma JA. Invited speaker. Case studies in IBD. Gastroenterology PC; 2014 Jun 4; Foley, AL.

Di Palma JA. Invited speaker. Overview of national and regional health care indicators. Leadership Mobile Health Seminar; 2014 Jan 27; Mobile, AL.


Di Palma JA. Invited speaker. Presentation skills, time management for academic physicians. American College of Gastroenterology Train-the-Trainer Course for Young Academic Gastroenterologists; 2014 Feb 20-24; Dallas, TX.

Di Palma JA. Invited speaker. A gastroenterologist’s view of GERD, medical treatment of Barrett’s Esophagus, small bowel enteroscopy and therapy. Interactive panel discussions (3). Minimally Invasive Surgical Society; 2014 Feb 26; Las Vegas, NV.


Fagan KA. Invited speaker. How to engage medical professionals in your patient organization. Pulmonary Hypertension Association International Conference; 2014 Jun 19; Indianapolis, IN.

Fagan KA. Invited speaker. Reproductive health in pulmonary hypertension. Pulmonary Hypertension Association International Conference; 2014 Jun 20; Indianapolis, IN.

Fagan KA. Invited speaker. Future of PH medicine. Pulmonary Hypertension Association International Conference; 2014 Jun 21; Indianapolis, IN.

Fagan KA. Invited speaker. Intimacy issues: women only. Pulmonary Hypertension Association International Conference; 2014 Jun 22; Indianapolis, IN.

Haynes J. Invited speaker. Update: sickle cell disease management. Gulf States Chapter of the Society of Hospital Medicine 10th Annual Conference; 2014 Jun 13; Point Clear, AL.

Haynes J. Invited speaker. Hospital management of sickle cell pain crisis in adults. 13th Annual Sickle Cell Regional Conference; 2014 May 3; Mobile, AL.

Haynes J. Invited speaker. Pathology of the disease and sickle cell trait in athletes. Sickle Cell Disease Association Educator Certification Program; 2014 Mar 24; Mobile, AL.

Herrera J. Invited speaker. Hepatitis C infection: epidemiology and cohort screening guidelines. American College of Gastroenterology Hepatitis School; 2013 Dec 5; Nashville, TN.
Herrera JL. Invited speaker. Side effect management of hepatitis C therapy. American College of Gastroenterology Hepatitis School; 2013 Dec 5; Nashville, TN.

Massey CM. Invited speaker. Go red for women 2014 update. 4th Annual Go Red for Women Symposium. 2014 Feb 6; Mobile, AL.

Massey CM. Invited speaker. Go red for women 2014 update; Gulf Coast Patient Care Network. 2014 Feb 13; Mobile, AL.


Massey CM. Invited speaker. Cardiovascular disease – a global epidemic; G. A. West & Company; 2014 Apr 24; Mobile, AL.

McMurtry IF. Invited speaker. The roles of vasoconstriction and pressure in the pathogenesis of pulmonary hypertension. 7th International Conference on Neonatal & Childhood Pulmonary Vascular Disease; 2014 Mar 29; San Francisco, CA.


Rudd AL, Motley CL, Hundley G. Invited speakers. Use of a comprehensive audiovisual system to capture medical student simulated patient encounters in a family medicine clinical experience. Conference on Teaching and Learning; 2014 May 24; Mobile, AL.

Sewell J, Bolton W. Invited speakers. Subacute combined degeneration: a diagnosis to be aware of. American College of Physicians Alabama meeting; 2014 May 31; Fairhope, AL.

Siddiqui AH. Invited speaker. Introduction to genetics of hemoglobin and thalassemia. Sickle Cell Disease Association Educator Certification Program; 2014 Mar 26; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Diego F. Alvarez: Member, editorial boards, American Journal of Physiology-Lung Cellular and Molecular Physiology, Pulmonary Circulation, Frontiers in Respiratory

Brooks D. Cash: American Society for Gastrointestinal Endoscopy Chair, Standards of Practice Committee, 2010-present; Data Monitoring Safety Board Member, Antidepressant Therapy for Functional Dyspepsia, Nicholas J. Talley, PI; NIDDK, 2006-present; Rome Committee on Functional Gastrointestinal Disorders Member, 2006-present, Research Awards Committee Chairman, 2009-present; Associate Editor, American Journal of Gastroenterology, 2009-present; Associate Editor, ACG Universe 2009-present; Section Editor, Current Gastroenterology Reports, 2008-present; Editorial Board, Gastroenterology and Hepatology, 2011-present; Editorial Board, Gastroenterology Research and Practice, 2009-present; Editorial Board, BMC Gastroenterology, 2011-present.

RM Culpepper: US News “Best Doctors” Database


Karen A. Fagan: Chair Pulmonary Hypertension Association Scientific Leadership Council; Member, Board of Trustees, Pulmonary Hypertension Association; Member, Evaluation and Planning, Clinicians Advisory and Finance national committees of the American Thoracic Society; Planning Committee, American Thoracic Society Pulmonary Circulation Assembly; Member, NIH Investigator-initiated Clinical Trials in Lung Disease (collaborative R01) study section; Associate Editor, Annals of the American Thoracic Society; Editorial Board, Pulmonary Circulation; Guest Editor, Advances in Pulmonary Hypertension; Medical Editor, Pathlights PHA Newsletter; Journal peer reviewer, American Journal of Physiology, Journal of Applied Physiology, Respiratory Research, American Journal of Respiratory Cell and Molecular Biology, American Journal of Respiratory and Critical Care Medicine, Circulation, CHEST, European Respiratory Journal, Pulmonary Pharmacology and Therapeutics, Heart & Lung: The Journal of Acute and Critical Care, Free Radical Biology and Medicine, Clinics in Chest Medicine; Elected, Best Doctors In America.

Johnson Haynes Jr: Listed: America’s Top Doctors; Observational Study Monitoring Board, Chair, 2R01HL079937-05 Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia (SAC-II) PI-Michael DeBaun. Voting Member, Association of American Medical Colleges (AAMC) - Group on Diversity and Inclusion (GDI)

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 15 consecutive years the Internal Medicine Clerkship has been recognized as the best clerkship for third year medical students. The Class of 2014 again honored the department with this award. Several of the departmental faculty were recognized with the red sash award for their educational efforts and the graduating Class of 2014 again selected a faculty member as the best teacher in the clinical years (Dr. Errol Crook). Department members have been instrumental in continuing the new curriculum for the medical school with several serving as the clinical co-director for the modules for the first and second year curriculum.

Our faculty also make important contributions to the education of students in Allied Health and Nursing. For example, Dr. Shannon Tyler serves as the Medical Director for the Department of Physician Assistant Studies in the College of Allied Health Professions where she plays a large role in the education of the PA students. Several of the PA students take clinical rotations in general internal medicine and all of our subspecialty areas.

The department puts forth considerable effort educating its internal medicine residents internal medicine-pediatric residents, and fellows in Gastrointestinal Diseases, Cardiovascular Disease, and Pulmonary Critical Care. The Grand Rounds Series is well received and is an important educational tool for the community. Several members of the faculty have been recognized as educational leaders in their subspecialty area.

Scholarly Efforts

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

There are several clinical trials led by department of medicine faculty. The Division of Gastroenterology continues to have a robust clinical studies portfolio that features studies in liver disease, advanced endoscopy, inflammatory bowel disease, and preparation for


II. PUBLISHED ABSTRACTS


Burtnick M, Brett P. Burkholderia mallei T6SS-1 gene expression is negatively regulated by iron and zinc. Pacific Southwest Regional Center of Excellence 9th Annual Meeting; 2013 Nov 17-19; Huntington Beach, CA. Abstract no. 10.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Brett PJ. Invited speaker. Development of polysaccharide-based vaccines for immunization against melioidosis. University of Victoria; 2014 Feb 21; Victoria, BC, Canada.
Brett PJ. Invited speaker. Development of multivalent subunit vaccines for immunization against melioidosis and glanders. Defense Threat Reduction Agency; 2014 Apr 24; Lorton, VA.


Brett PJ. Invited speaker. Glycoconjugate vaccine induced immunity against melioidosis. International Medical Sciences Conference; 2014 Jul 16; Khon Kaen, Thailand.

Brett PJ. Invited speaker. Development of polysaccharide-based vaccines for immunization against melioidosis. Mahidol University; 2014 Jul 21; Bangkok, Thailand.

Brett PJ. Invited speaker. Antigenically defined vaccines for immunization against melioidosis and glanders. 100th Annual ASM Southeastern Branch Conference; 2014 Sep 5; Ponte Vedra Beach, FL.

Brett PJ. Invited speaker. Antigenically defined vaccines for immunization against melioidosis. University of Toledo Seminar; 2014 Sep 10; Toledo, OH.

Burtnick MN. Invited speaker. Interactions of Burkholderia mallei with phagocytic cells. ASM Biodefense and Emerging Diseases Research Meeting; 2014 Jan 29; Washington, DC.


Burtnick MN. Invited speaker. Insights into the pathogenesis of melioidosis. Mahidol University; 2014 Jul 21; Bangkok, Thailand.

Fortwengel JR. Invited speaker. Fungal-specific mechanisms of Ras-mediated morphogenetic signaling in Aspergillus fumigatus. 99th American Society for Microbiology-Southeastern Branch Meeting 2013; 2013 Nov 9; Auburn, AL.


Sharpe D, Lovelace T, Wood DO. Invited speakers. Designing (and redesigning) BSL-3 labs to pass “failure scenario” requirements. Tradeline 2014 International Conference on Biocontainment Facilities; 2014 Apr 10-11; Scottsdale, AZ.

V. NATIONAL PROFESSIONAL RECOGNITION


John W. Foster: Ad Hoc Reviewer, *Molecular Microbiology*.

David O. Wood: Member, American Society for Microbiology (ASM) Committee on Ethics. Member Editorial Board, ASM journal *Infection and Immunity*, Association of Medical Microbiology and Immunology Chairs.

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

Drs. Audia, Brett, Burtnick, and Wood, along with colleagues, Drs. Scammell and Schuler in the Department of Comparative Medicine, worked towards the certification by CDC of the Laboratory of Infectious Diseases (LID) received August 22, 2014. The LID Building was funded by an ARRA C06 grant, for $14,506,327. The building is a 25,800 square foot BSL2/BSL3 laboratory building.

The Department's research programs remain a major focus of faculty activities. Examining the molecular mechanism underlying the pathogenicity of the Biosafety Level 3 (BSL-3) intracellular pathogens *Rickettsia prowazekii, Burkholderia mallei* and *Burkholderia pseudomallei*, conducted by Drs. Audia, Brett, Burtnick and Wood, represents a major area of research within the department. The bacterial pathogen group is complemented by Dr. Fortwendel who focuses on deciphering the pathogenic mechanisms of the fungal pathogen *Aspergillus fumigatus*. Dr. Barrington focuses on examining the regulation of B cell fate and the unfolded protein response of cells under stress and mechanisms of autoimmunity. Despite the problems facing researchers in acquiring funding, departmental investigators continue to be productive and to actively pursue support for their research efforts. R01 funding from NIH was awarded to Dr. Fortwendel, and continued funding was received by Drs. Barrington, Brett, Burtnick and Wood through NIH grants. Dr. Barrington obtained an equipment grant for an X-iradiator. Drs. Brett and Burtnick have acquired funding from the Defense Threat Reduction Agency and Department of Defense. Dr. Audia was awarded funding through
a research contract with NIH/Seattle BioMed.

The Department remains committed to excellence in teaching, with 100% support from the departmental Faculty members for the new curriculum for graduate and medical students. Dr. Foster continues to serve as module director for Hematology and Host Defense, which involves all of the Microbiology and Immunology faculty. Dr. Paul Brett continues as Director of the Infectious Disease and Host Defense track for graduate students in the Basic Medical Science program. This track conducted its inaugural course, Spring semester 2014. In the graduate program, faculty members also participated in the interdisciplinary graduate level courses IDL 580 and IDL 581. The Department hosted five medical students participating in the 41st Summer Medical Student Research Program.

The Department hosted a special seminar with David A. Dean, Ph.D., Professor, Department of Pediatrics, University of Rochester, Rochester, New York on Friday, May 23, 2014, entitled, “Development of gene delivery approaches for the healthy and injured lung.”

Five scientists were invited by the department for the Distinguished Scientist Seminar Series; they presented outstanding seminars and met with the departmental faculty and students. Jarrod R. Fortwendel, Ph.D., Assistant Professor, Department of Microbiology and Immunology, University of South Alabama, Mobile Alabama presented a seminar entitled “Morphogenesis and virulence: targeting fungal-specific aspects of a conserved eukaryotic pathway.” Eric R. Lafontaine, Ph.D., Associate Professor, Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens Georgia, presented a seminar entitled, “Autotransporters and development of countermeasures for Burkholderia mallei and Burkholderia pseudomallei.” Andrew Alspaugh, M.D., Professor, Department of Medicine, Duke University School of Medicine, Durham, North Carolina, presented a seminar entitled, “Views from the Rim: microbial adaptation to the human host.” Christine Szymanski, Ph.D., Professor and Alberta Innovates Scholar, Department of Biological Sciences, University of Alberta, Edmonton, Alberta, Canada, presented a seminar entitled, “Glycoengineering vaccines in bacteria.” Denise Marie Monack, Ph.D., Associate Professor, Department of Microbiology and Immunology, Stanford University, Stanford School of Medicine, Stanford California, presented a seminar entitled, “The Yin and Yang of Persistent Salmonella Infections.”
2014-2015
Summary of Scholarly Activities
Department of Neurology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Bassam BA. Invited speaker. Nerve conduction pitfalls. The 60th Annual Meeting and Workshops of the American Association of Neuromuscular & Electrodagnostic Medicine (AANEM); 2013 Oct 16; San Antonio, TX.

Bassam BA. Invited speaker. Genetics of hereditary neuropathies. 60th Annual Meeting of the American Association of Neuromuscular & Electrodagnostic Medicine (AANEM); 2013 Oct 17; San Antonio, TX.

Bassam BA. Invited speaker. Myopathy, classification and evaluation update. Wayne State University Neurology Conference. 2013 Nov 18; Detroit, MI.

Bassam BA. Invited speaker. Practical approach to the diagnosis and management of peripheral neuropathy. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.


Cordina S. Invited speaker. Intracranial disease, antiplatelets versus endovascular treatment. 3rd Annual South Texas Stroke Symposium; 2014 May 3; South Padre Island, TX.

Cordina S. Invited speaker. Stroke mimics. 2014 StrokeCareNow Symposium; 2014 May 23; Fort Wayne, IN.

Cordina S. Invited speaker. Treating today’s stroke, case studies. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.


Dees D. Invited speaker. Management of advanced Parkinson’s disease. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.


Maertens P. Invited speaker. The Elephant Man and neurocutaneous syndromes. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.

Minto E. Invited speaker. Overview of dementia. University of South Alabama Odyssey Course; 2014 Jan 24; Mobile, AL.

Minto E. Invited speaker. Migraines: diagnosis, treatment and prevention. University of South Alabama Med School Café; 2014 Feb 20; Mobile, AL.

Minto E. Invited speaker. Multiple sclerosis treatment update. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.

Naritoku D. Invited speaker. Experimental models of epilepsy. J. Kiffin Penry Epilepsy Minifellowship Program; 2014 Oct 13; Winston-Salem, NC.

Naritoku D. Invited speaker. AEDs: mechanisms of action. J. Kiffin Penry Epilepsy Minifellowship Program; 2014 Oct 13; Winston-Salem, NC.

Naritoku D. Invited speaker. The art of AED management. J. Kiffin Penry Epilepsy Minifellowship Program; 2014 Oct 14; Winston-Salem, NC.

Naritoku D. Invited speaker. Epilepsy in the elderly. J. Kiffin Penry Epilepsy Minifellowship Program; 2014 Oct 15; Winston-Salem, NC.

Naritoku D. Invited speaker. Acute seizures and status epilepticus. J. Kiffin Penry Epilepsy Minifellowship Program; 2014 Oct 15; Winston-Salem, NC.

Naritoku D. Invited speaker. Role of vagus nerve stimulation in gereralized epilepsy including Lennox-Gastaut syndrome. 2014 Southern Epilepsy and EEG Society Biennial Meeting; 2014 Jun 8; Chicago, IL.

Naritoku D. Invited speaker. When epilepsy is not epilepsy. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.

Ochoa JG. Invited speaker. Approaches to uncontrolled epilepsy. University of South Alabama Neuroscience Symposium; 2014 Mar 21; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam Member, Neuromuscular Update Committee, American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM); Supervisor, American Board of Electrodiagnostic Medicine annual board examination; Member and Guidelines Reviewer, Network Subcommittee, American Academy of Neurology; Member, Neuromuscular Section, American Academy of Neurology; Grant reviewer panel, FDA/Office of Orphan Products Development; Examination Committee Member, American Board of Electrodiagnostic Medicine.

Steve M. Cordina: Member, American Heart Association; Member, American Stroke Association; Member, American Academy of Neurology; Member, American Society of Neuroimaging; Member, Society of Neurointerventional Surgery; Member, Society of Vascular and Interventional Neurology; Member, Neurocritical Care Society; Member, Medical Association of Malta.
Olivier Darbin: Guest Associate Editor, Frontier Neurology Special Topic; Editorial Board Member, BioMed Research International; Editorial Board Member, Advances in Neuroscience; Journal Peer Reviewer, International Journal of Neural Systems Clinical Neurophysiology, Brain Research, Experimental Neurology, The Journal of Neuroscience; Visiting Researcher at National Institute for Physiological Science, Project title: “Closed-loop control for deep brain stimulaton in parkinsonian primates”

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

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

Elizabeth H. Minto, M.D. Member, American Academy of Neurology; Board of Directors, Vice President Executive Committee, Medical Society of Mobile County

Dean K. Naritoku: Scientific Committee, American Epilepsy Society; Chairman, 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; Member, American Epilepsy Society; Member, American Society of Clinical Pharmacology and Therapeutics; Member, American Society for Clinical Neurophysiology; Editorial Board Member, Neurology Research; Best Doctors in America.

Juan G. Ochoa: Member, American Academy of Neurology; Member, American Epilepsy Society; Member, American Clinical Neurophysiology Society; Program Director AAN Consortium of Neurology.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology continued robust growth in specialized services, with launching of the deep brain stimulation (DBS) program for Parkinson disease and tremor in conjunction with the Department of Neurosurgery. The DBS program will serve as a platform for clinical and basic research on motor control in humans and will be a major focus for Neurology and Neurosurgery in the future. The interventional stroke program has established itself as the prominent referral center for intracerebral aneurysms and arteriovenous malformations (AVMs) with exponential growth of referrals to the USA Medical Center. For the year the department exceeded its targeted clinical activity goals by nearly 30%.
Also launched was the botulinum toxin ("Botox") program for dystonia and spasticity, and it has shown rapid growth. The Department is currently launching the first neurorehabilitation program in the Gulf Region that will directly integrate care from neurologists and therapists. The neurorehabilitation program will begin treating patients in Neurology Clinic in mid-October. A new Epilepsy Monitoring Unit has been launched at Childrens and Womens Hospital and is expected to be an important core for growth of medical and surgical treatment of epilepsy in children.

The neurology clerkship has been reorganized, with a new director and reorganization of the curriculum, with integration of team based learning (TBL). The Department presented its first annual symposium, which was an all-day event held for physicians in the Gulf region and was well attended.

Several interdisciplinary research programs sponsored and fostered by the department are now bearing fruit. A collaboration with the vestibular group in speech and hearing at the main campus has demonstrated novel findings of abnormal vestibular control in patients with Parkinson Disease. The epilepsy group, in conjunction with neuropsychologists from the USA main campus, have been evaluating cortical neural unit activities during specific language tasks. The epilepsy group has also presented findings of small network oscillations during seizure onset in temporal lobe at the American Epilepsy Society meeting.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurosurgery continues to have a busy clinical practice covering the USA Medical Center, Children’s and Women’s Hospital, The Mitchell Cancer Institute, and The Mobile Infirmary Medical Center. Dr. Anthony Martino continues as department Chairperson and is clinically active at all locations.

Activity at MCI consists of the neuro-oncology clinic held bi-weekly along with a robust radiosurgery program currently utilizing the Cyberknife and supporting the use of Tomotherapy. We continue to participate in the monthly meeting with the neuro-spore group at UAB reviewing brain tumor protocols. Dr. Martino again helped organize the Oncology Outlook Meeting in 2014 and moderated a session on brain tumors.

The departments teaching activities continue with the weekly Neuroradiology Conference, participation in the second year Neuroscience course, and clinical electives in both the IIsrd and IVth year. This past year the IVth year elective was again a popular elective for those students entering neurology or neurosurgery and those wishing to expand their neuroscience experience. During the past year the department mentored three students that successfully entered competitive neurosurgical residencies.
We have added a third mid-level provider that will continue with their daily support with hospital rounds and clinic activity. They also continue with an active concussion awareness program at local high schools, performing pre-season neuro-psychological testing and post trauma assessment and clearance for continued play.

The Deep Brain Stimulation Program in concert with the department of neurology (Dr. Dees) successfully performed its first case and looks to continued growth in the upcoming year treating patients with essential tremor and Parkinson’s disease.

Dr. W. George Rusyniak continues in his role in the epilepsy program along with Dr. Ochoa. This July brought the addition of a new neurosurgeon Dr. William Scott. He completed both neurosurgical residency and a fellowship in pediatric neurosurgery from the University of Texas Southwestern in Dallas. Dr. Scott will continue to develop the pediatric neurosurgery and adult neurosurgical services at the USA Medical Center.

We now occupy new academic offices on the 10th Floor of the Medical Center.
2013-2014
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Scalici JM, Pearsall D, Courtney-Brooks M, Cantrell LA, Walters C, Leath III CA, Finan MA, Rocconi RP. Surgical management of uterine carcinosarcoma: is minimally invasive surgery a feasible option? American College of Surgeons 99th Annual Clinical Congress; 2013 Oct 6-10; Washington, DC.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Baker SL. Invited speaker. APEC initiatives. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

Bennett D. Invited speaker. Hormone replacement update. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 10; Daphne, AL.

Brocato B. Invited speaker. Obesity. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 10; Daphne, AL.

Brocato B. Invited speaker. Interpretation of fetal monitoring and management of category II tracings. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

Kennedy R. Invited speaker. Evaluation of the infertile couple. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

Lewis DF. Invited speaker. Indications for antenatal testing. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 10; Daphne, AL.


Lewis DF. Invited speaker. Advances in the diagnosis of preterm labor. AWHONN Tennessee Section Conference; 2014 May 9; Nashville, TN.

McCathran CE. Invited speaker. Work-up of surgical gynecological patient. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.


Rizk B. Invited speaker. Ovarian hyperstimulation syndrome: diagnosis and treatment and can it be avoided. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine; 2013 Oct 12; Boston, MA.

Rizk B. Invited speaker. Oocyte retrieval and embryo transfer-clinical experience. Conjoint Meeting of the International Federation of Fertility Societies and the American Society for Reproductive Medicine; 2013 Oct 12; Boston, MA.

Rizk B. Invited speaker. Initial assessment of the female. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 16; Cleveland, OH.

Rizk B. Invited speaker. Pathology and treatment of polycystic ovary syndrome. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 16; Cleveland, OH.

Rizk B. Invited speaker. Ultrasound in infertility. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 16; Cleveland, OH.

Rizk B. Invited speaker. Endometriosis-associated infertility. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 17; Cleveland, OH.

Rizk B. Invited speaker. Assisted reproductive techniques. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 17; Cleveland, OH.

Rizk B. Invited speaker. Ovarian hyperstimulation syndrome. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 17; Cleveland, OH.

Rizk B. Invited speaker. Tips on getting into US medical schools and residency programs. Summer Internship Course in Reproductive Medicine at Cleveland Clinic; 2014 Jun 17; Cleveland, OH.
Rocconi RP. Invited speaker. Scientific solutions to gynecologic oncology problems: he blinded me with science. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

Stauffer RA. Invited speaker. Management of asthma in pregnancy. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

Varner STF. Invited speaker. Ten ways to decrease maternal death. 23rd University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 11; Daphne, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. David Lewis serves as Secretary to the national organization, Central Association of Obstetrics and Gynecology (CAOG). He is a member of the International Society for the Study of Hypertension in Pregnancy. He is a member of the Alabama State Perinatal Advisory Council. He is on the Board of Directors for the State Perinatal Board and also a member of the Society of Maternal Fetal Medicine. He is a member of the Council of University Chairs in Obstetrics and Gynecology and a member of the American College of Obstetrics and Gynecology. He is a journal reviewer for the American Journal of OB/GYN, Obstetrics and Gynecology, Journal of Maternal Fetal Medicine, Southern Medical Journal, The Lancet, Clinical Drug Investigation, Fertility and Sterility, Journal of Maternal and Neonatal Medicine.

Dr. Botros Rizk The Reproductive Endocrinology and Infertility Fellowship Program accepted Dr. Rola Turki from King AbdulAziz University Jeddah, Saudi Arabia, Dr. Hashem Lotfy, Tanta University, and Dr. Rizwan Malik, University of Indiana, Indianapolis. Dr. Rizk is President Elect of the Middle East Fertility Society. He 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 14 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 Publication. He is Chairman of the American Society for Reproductive Medicine International Membership Committee and President Elect of the Middle East Fertility Society.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department held its 23rd Annual CME Conference in Obstetrics and Gynecology at the Daphne Civic Center April 10 & 11, 2014. Outside speakers were Dr. Craig Towers, University of Tennessee, Knoxville; Dr. Brian Brocato, University of Tennessee, Memphis; and Dr. Gale Blakley. Other USA Faculty speakers were; Dr. Fabien Eyal, Department of Pediatrics, Dr. Suzy Figarola, Department of Radiology, Ms. Becky Tate, CEO, HSF, Ms. Amy McRae, Quality Management and Mr. Jeff Morris. The meeting was widely supported
and attended by physicians, nurse practitioners, nurse midwives and nurses from a large geographic area.

Dr. Susan L. Baker, Director of the Division of Maternal Fetal Medicine serves as a clinician with an emphasis on substance abuse issues with pregnant women.

Dr. Donna Bennett serves as generalist and is the Medical Director of the Center for Women’s Health.

Dr. Brian Brocato is the department’s newest faculty member. He specializes in Maternal Fetal Medicine.

Dr. Frankie Bodie serves as generalist and coordinates the faculty call schedule.

Dr. Nicolette Holliday serves as generalist and is the Co-Clerkship Director.

Dr. John LaFleur serves as generalist serves on the Executive Committee and is Chairman of the OB/GYN Committee at USACW.

Dr. David Lewis serves on the College of Medicine Executive Council Committee, Operations Committee, Clinic Chairs and Medical Executive Committee. He serves on the Performance Improvement Council, OB/GYN Committee and Medical Executive Committee at USA Children’s and Women’s Hospital.

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

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. Dr. Rizk accepted Dr. Rola Turki from King AbdulAziz University Jeddah, Saudi Arabia, Dr. Hashem Lotfy, Tanta University, and Dr. Rizwan Malik, University of Indiana, Indianapolis as Fellows of The Reproductive Endocrinology and Infertility Program.

Dr. Craig Sherman serves as the Residency Program Director and as Medical Director for the Women’s Center. 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 continues in his capacity as Director of the Division of Gynecology and maintains the Vulvar clinic.
Dr. Michael Finan has a dual appointment with the Department of OB/GYN and the MCI. He is Chief of Gynecologic Oncology for the OB/GYN Department. Dr. Finan was listed as one of “America’s Top Doctors” in U.S. News and World Report. He is a member of the SGO Quality and Outcomes Committee 2012-14.

Dr. Rodney Rocconi has a dual appointment with OB/GYN and the Mitchell Cancer Institute. He teaches the residents GYN Oncology. Dr. Rocconi is an Editorial Reviewer for *Journal of Cellular and Molecular Medicine and Anti-Cancer Agents in Medicinal Chemistry*.

Dr. Jennifer Scalici has a dual appointment with the Department of OB/GYN and the Mitchell Cancer Center.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Bajwa NS, Meyer FN. Distribution of the volar and dorsal blood supply of the lunate: an anatomic specimen study of 1900 lunate bones. Southern Orthopaedic Association 31st Annual Meeting; 2014 Jul 16-19; Avon, CO. p. 86.

Bajwa NS, Meyer FN. Association of ulnar variance with lunate morphology: an anatomic specimen study of 630 cadaveric wrists. Southern Orthopaedic Association 31st Annual Meeting; 2014 Jul 16-19; Avon, CO. p. 120.


White S, Meyer F, Goode R. Surgical findings that likely lead to failure of conservative treatment of De Quervain’s tenosynovitis. 63rd Alabama Orthopaedic Society Meeting; 2014 Apr 24-26; Birmingham, AL. p. 30. Abstract no. 9.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Alonso JE. Invited speaker. Preoperative planning – a team approach. Synthes Orthopaedic Trauma: Team Approach to Fracture Management Course; 2014 Feb 7; Birmingham, AL.

Alonso JE. Invited speaker. Orthopaedic trauma. 5th Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2014 Mar 27; Mobile, AL.

Meyer FN. Invited speaker. From volume to value (practice management). University of Illinois at Chicago (UIC); 2013 Oct 19; Chicago, IL.

Meyer FN. Invited speaker. Update on the treatment of Dupuytren’s contracture. Grand Rounds Presentation, University of Alabama at Birmingham; 2013 Dec 3; Birmingham, AL.


Meyer FN. Invited speaker. RVU’s: what they are and why they matter. AAOS Annual Meeting; 2014 Mar 11; New Orleans, LA.

Meyer FN. Invited speaker. Running a more efficient practice. Mid-America Orthopaedic Association 32nd Annual Meeting; 2014 Apr 25; San Antonio, TX.


Perry MD. Invited speaker. Foot and ankle amputations. Dallas Short Course Orthotics and Prosthetics; 2013 Oct 24; Dallas, TX.

Perry MD. Invited speaker. Foot and ankle deformities in adults. Dallas Short Course Orthotics and Prosthetics; 2013 Oct 25; Dallas, TX.

Perry MD. Invited speaker. The diabetic foot/ankle. Dallas Short Course Orthotics and Prosthetics; 2013 Oct 25; Dallas, TX.

Perry MD. Invited speaker. Basic principles of foot orthoses. Dallas Short Course Orthotics and Prosthetics; 2013 Oct 25; Dallas, TX.

Perry MD. Invited speaker. Immediate percutaneous treatment of calcaneal fractures. 25th Annual Southeastern Orthopaedic Foot Club; 2014 Apr 24; Birmingham, AL.

Zarzour JG, Meyer FN. Invited speakers. Collagenase injection for Dupuytren’s contracture in the anticoagulated patient. Western Orthopaedic Association; 2014 Aug 2; Honolulu, HI.

V. NATIONAL PROFESSIONAL RECOGNITION

Jorge E. Alonso: Selected Member of the Alpha Omega Alpha Honor Medical Society; Moderator for Practical Exercise I: A) Cortical Lag Screw Technique. B) Cancellous Lag Screw Technique. Synthes Orthopaedic Trauma: Team Approach to Fracture Management. 2014 February 7; Birmingham, AL.; Moderator for Instruments and Implants for Proximal Femur Fractures: Trochanteric Nail. Synthes Orthopaedic Trauma: Team Approach to Fracture Management. 2014 February 8; Birmingham, AL.


Mark Perry: Oral Boards Examiner - American Board of Orthopaedic Surgery; Editorial Board of the Patient Information website, www.footeducation.com; Chairman, 25th Annual Southeastern Orthopaedic Foot Club, Birmingham, AL, April 24, 2014; Foot and Ankle Amputation Consultant for the UT Southwestern Medical Center's Dallas Short Course Orthotics & Prosthetics; Selected as a Castle Connolly Top Doctor 2014

Zhiqing Xing: Membership in AO Trauma North America 2014.

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 2 published articles in nationally recognized journals, and 8 published abstracts. In addition, there have been 29 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. 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 on the Editorial Board of the Patient Information website, www.footeducation.com. The Department of Orthopaedic Surgery continues to accept three residents per year at the PGY-1 level. Therefore, a total of 15 residents comprise our residency training program. The three 2014 graduating residents each sat for Part I of the written board examination in July, however due to a delay in reporting score results by the American Board of Orthopaedic Surgery, we have not yet received notification of outcomes. Two of our three graduating residents accepted fellowship positions beginning August 1, 2014. Filippo Chillemi, M.D. accepted a Sports Medicine fellowship offer at the prestigious Andrews Sports Institute in Gulf Breeze, FL and Geoffrey Stone, M.D. accepted an excellent opportunity for fellowship training in shoulder at the well-known Florida Orthopaedic Institute in Tampa, FL. Ryan Palmer, M.D. was invited to join a successful private practice group in Opelika, AL.
2013-2014
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Tucker JA. Invited speaker. Electron microscopy and medical school: promoting ultrastructural diagnosis while achieving accreditation requirements. Ultrastructural Pathology XVII; 2014 Jul 29; Asheville, NC.

V. NATIONAL PROFESSIONAL RECOGNITION

Carole Boudreaux: Elected as a faculty AOA member.

Gary E. Carnahan: Inspector, College of American Pathologists; Medical Director, LifeSouth Community Blood Bank

Elliot Carter: Inspector, College of American Pathologists.

Andrea G. Kahn: Member at Large, Executive Board, Alabama Association of Pathology; Ambassador, United States and Canadian Academy of Pathology. Guest reviewer, Ultrastructural Pathology.

Elizabeth A. Manci: Board of Directors of the Gulf Coast Regional Chapter of the American Red Cross; Counselor, Medical Association of the State of Alabama, District One; Chairman, search committee for Executive Director of the Mobile Medical Museum; Director, Alabama Placenta Registry.


Kelly Roveda: Councilor AOA chapter.

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

J. Allan Tucker: United States and Canadian Academy of Pathology Vice President and member of Finance committee; Association of Pathology Chairs, Secretary-Treasurer, Leadership Development and Diversity Committee, Undergraduate Medical Education Committee; Member, American Medical Association/Specialty Society Resource-Based Relative Value Scale Update Committee (RUC) (Vice Chair, RUC Administrative Subcommittee, Chair, RUC Global Period Workgroup, Chair, RUC Financial Disclosure Review Workgroup); Treasurer, American Registry of Pathology; Member, Economic Affairs Committee of the College of American Pathologists and Member of the CPT/RUC Workgroup; Member, Graduate Medical Education Committee of the College of American Pathologists; Secretary and Treasurer, History of Pathology Society; Treasurer, Internation Academy of Pathology; Treasurer, Society of Ultrastructural Pathology; Delegate, American Medical Association (representing 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
We were able to recruit two new faculty members into our department. Dr. Brett Baskovich is the new director of molecular pathology. He comes to us after earning his medical degree and completing his pathology residency at the University of Florida. He also completed a fellowship in molecular genetic pathology at Albert Einstein College of Medicine in New York. Ms. Julie Day comes to us from Duke University where she earned her American Society for Clinical Pathology certification and her Master of Health Science. She is joining us as the first board certified pathologists’ assistant in the USA Health System. Three residents completed the program this year. Dr. Rocky Adams has entered a molecular genetics fellowship at the University of Utah/ARUP laboratories and will then undertake a gastrointestinal and hepatobiliary fellowship at the University of California in San Francisco. Dr. Crystal Cordell has begun a cytopathology fellowship at the Methodist Hospital in Houston, Texas. Dr. Jennifer Conneal is undertaking a forensic pathology fellowship at the Office of Medical Examiner County of San Diego. The department enjoyed another highly successful recruiting year, with three new residents joining the department: Dr. Susan Harley from Duke University Medical School, Dr. Christopher Perry from University of South Alabama College of Medicine, and Dr. Ourania Kampagianni joined us from the University of Szeged Faculty of Medicine in Hungary.

Dr. Javier Laurini was appointed director of surgical pathology and Dr. Andrea Kahn was appointed director of anatomic pathology, with Dr. Allan Tucker as co-director of anatomic pathology. Dr. Kahn was also appointed as program director of our residency program. Also this year Dr. Andrea Kahn was promoted to Associate Professor. Dr. Elliot Carter and Dr. Andrea Kahn are both involved in funded grant research projects. A renovation and move of the immunohistochemical processing laboratory, headed up by Dr. Laurini, will improve the turnaround time on special stain testing.

The Betsy D. Bennett award for outstanding teaching by a resident went to Dr. Rocky Adams and Dr. Ioannis Ioannidis. The residents’ faculty recognition award went to Dr. Carole Boudreaux, and their staff recognition award to Mr. Michael Titford. Dr. Carter, Dr. Kahn, Dr. Roveda, and Dr. Tucker were awarded with a Red Sash at graduation. Dr. Tucker gave the honors convocation address. Pathology was selected by the graduating class as the best basic science course, and diagnostic electron microscopy was selected as the best fourth year elective. The William A. Gardner, Jr., Award for an outstanding pathology performance by a graduating medical student was shared by Ms. Kasey Sarah Gardner and Mr. Charles Newton Newman.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Siddiqui AH. Remarkable decline in pneumococcal infection in children with sickle cell disease at Children’s and Women’s Hospital. Sickle Cell Today (USA Comprehensive


II. PUBLISHED ABSTRACTS


Abstract no. 43178.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

**Batten L.** Invited speaker. Sudden cardiac death in athletes and the screening controversy. USA Med School Café; 2014 Jun19; Mobile, AL.

**Batten L.** Invited speaker. Sudden cardiac death in athletes and the screening controversy. Alabama Chapter AAP 2014 Annual Meeting and Fall Pediatric Update; 2014 Sept 28; Birmingham, AL.

**Batten L.** Invited speaker. Chest pain and syncope in kids: where do I even start? Alabama Chapter AAP 2014 Annual Meeting and Fall Pediatric Update; 2014 Sept 28; Birmingham, AL.

**Bhowmick SK.** Invited speaker. Hashimoto’s encephalopathy in children and adolescents. Pediatrics Endocrine Society Meeting; 2013 Oct 12; Birmingham, AL.

**Bostwick S, Haftel H, Li ST, Trimm F.** Invited speakers. Time management: how to get the most out of a scarce resource. APPD Fellowship Directors Program. PAS Annual Meeting; 2014 May 2; Vancouver, BC, Canada.

**Chiang O, Trimm RF, Blum NJ, Solomon BS, Garfunkel LC.** Invited speakers. Tips, tools and tricks for teaching behavioral and mental health in continuity clinic. Pediatric Academic Societies Annual Meeting; 2014 May 4; Vancouver, BC, Canada.
Connely R. Invited speaker. Just what did the doctor say? Tips for communicating with your health care providers. USA Med School Café; 2013 Nov 6; Mobile, AL.

Eyal FG. Invited speaker. Extremely low birthweight infant: past and present status. The Twenty-Third University of South Alabama Obstetrics and Gynecology Conference; 2014 Apr 10; Daphne, AL.

Gremse DA. Invited speaker. Diagnosis and management of carbohydrate-induced diarrhea. Alabama Chapter AAP 2014 Spring Meeting & Pediatric Update; 2014 Apr 26; Point Clear, AL.


Hamburger E, Agrawal D, Trimm F, Ottolini M. Building a better resident – it takes a village: faculty development for the NAS. ACGME Annual Education Conference; 2014 Feb 28; Washington, DC.


Imran H. Invited speaker. Management of SCD. Sickle Cell Association; 2014 May 25; Mobile, AL.

Kaulfers AM. Invited speaker. Growth disorders/short stature. Spring Hill College; 2013 Oct 14; Mobile, AL.

Kaulfers AM. Invited speaker. The brain is what you feed it: effect of nutrition on the brain. USA Med School Café; 2014 May 20; Mobile, AL.

Kaulfers AM. Invited speaker. Care of patients with type 1 diabetes. Gulf Coast Patient Care Network; 2014 Jun 7; Mobile, AL.

Preud’Homme D. Invited speaker. The metabolic syndrome, a team based learning experience. Society for Adolescent Medicine and Health National Conference; 2014 Mar 23; Austin, TX.

Preud’Homme D. Invited speaker. Childhood obesity in Mobile, Alabama. Alabama Baby Coalition Infant Mortality Conference; 2014 Sep 12; Mobile, AL.

Roberson-Trammell K. Invited speaker. Healthy tips for women: 1) know Jesus, 2) know yourself, 3) know your doctor, 4) know your numbers. Revelation Baptist Church; 2013
Nov 9; Mobile, AL.

Roberson-Trammell K. Invited speaker. Asthma. Gulf Coast Patient Care Network Medical Management Meeting; 2013 Dec 5; Mobile, AL.

Roberson-Trammell K. Invited speaker. Asthma. Gulf Coast Patient Care Network Medical Management Meeting; 2013 Dec 10; Mobile, AL.

Roberson-Trammell K. Invited speaker. Go red for women: health truth for African American women. Friendship Missionary Baptist Church. 2014 Feb 8; Mobile, AL.

Schuster MA, Hofkosh D, Trimm RF. Invited speakers. Update on APPD LGBTQA pediatric education group curriculum development and projects. LGBTQ Health and Well-Being Special Interest Group. Pediatric Academic Societies Annual Meeting; 2014 May 3; Vancouver, BC, Canada.

Siddiqui AH. Invited speaker. Update on pheochromocytoma. King Faisal Specialty Hospital and Research Centre; 2013 Dec 18; Riyadh, KSA.

Siddiqui AH. Invited speaker. Quantitative hemoglobin disorders: introduction to thalassemia. Sickle Cell Association; 2014 May 25; Mobile, AL.


Trimm F. Invited speaker. Finding your muse: the journey of personal and professional development. Association of Pediatric Program Directors Fall Meeting; 2013 Oct 2; Arlington, VA.

Trimm F. Invited speaker. Building better doctors through milestones and EPAs. Loma Linda University School of Medicine; 2013 Nov 15; Loma Linda, CA.

Trimm F. Invited speaker. Evidence-based psychosocial interventions. AAP DB:PREP An Intensive Review and Update of Developmental-Behavioral Pediatrics; 2014 Jan 20; Atlanta, GA.


Trimm F. Invited speaker. Test your knowledge. AAP DB:PREP An Intensive Review and Update of Developmental-Behavioral Pediatrics; 2014 Jan 31; Atlanta, GA.
Trimm F. Invited speaker. Theories of normal development. AAP DB:PREP An Intensive Review and Update of Developmental-Behavioral Pediatrics; 2014 Jan 31; Atlanta, GA.

Trimm F. Invited speaker. DSM-V update. AAP DB:PREP An Intensive Review and Update of Developmental-Behavioral Pediatrics; 2014 Feb 1; Atlanta, GA.

Trimm F. Bar-on M. Invited speakers. Leadership styles and managing change. Program Director Leadership Retreat. University of Nevada-Las Vegas & Reno; 2014 Mar 5; Las Vegas, NV.

Trimm F. Invited speaker. Update on DSM-V: changes that impact pediatrics. Alabama Chapter AAP 2014 Spring Meeting & Pediatric Update; 2014 Apr 27; Point Clear, AL.

Trimm F. Invited speaker. Late preterm infants: developmentally at risk? Alabama Chapter AAP 2014 Spring Meeting & Pediatric Update; 2014 Apr 27; Point Clear, AL.

Trimm F. Invited speaker. Using the milestones to enhance performance through remediation and enrichment. Pediatric Academic Societies Annual Meeting; 2014 May 3; Vancouver, BC, Canada.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Oncology Nursing Society Meeting; 2013 Oct 8; Gainesville, FL.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Mobile County Health Care Providers; 2013 Nov 6; Mobile, AL.

Wilson F. Invited speaker. When serum ferritin is > 1000mcg/L help patients achieve treatment goals. Mobile County Health Care Providers; 2014 Jan 8; Mobile, AL.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Louisiana State University; 2014 Jan 30; New Orleans, LA.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Tulane University; 2014 Jan 30; New Orleans, LA.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Children’s Health Care of Atlanta; 2014 Feb 21; Atlanta, GA.

Wilson F. Invited speaker. Be sickle smart - take control of your future: living with sickle cell disease. Staten Island University Hospital; 2014 Mar 16; Staten Island, NY.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Upstate Medical Center; 2014 Apr 16; Albany, NY.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Northern California Pediatric Hematology & Oncology; 2014 Apr 30;
Sacramento, CA.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. East Carolina University; 2014 May 8; Greenville, NC.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. The University of Arkansas for Medical Science; 2014 May 22; Little Rock, AR.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Hackensack University Medical Center; 2014 Jun 4; Long Branch, NJ.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Monmouth Medical Center; 2014 Jun 4; Long Branch, NJ.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Morristown Medical Center; 2014 Jun 4; Long Branch, NJ.

Wilson F. Invited speaker. Current considerations in the management of patients with sickle cell disease. Children’s Health Care of Atlanta; 2014 Jun 11; Atlanta, GA.

Wilson F. Invited speaker/video conference. Help patients achieve reductions of iron burden in the blood, liver, and heart. Children’s Health Care of Atlanta; 2014 Aug 20; Atlanta, GA.


Wilson F. Invited speaker. Transfusion therapy in sickle cell disease. 7th Annual Sickle Cell Disease Conference; 2014 Sep 26; Dothan, AL.

V. NATIONAL PROFESSIONAL RECOGNITION


Kimberly Cole: Member, Alabama Baby Coalition.

Rosina Connelly: Reviewer: American Academy of Pediatrics; Member, Academic Pediatric Association Health Literacy SIG.

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


61

Benjamin Estrada: Advisor, Curriculum Renewal Project, Universidad Francisco Marroquin School of Medicine, Guatemala City, Guatemala; Recipient of The Leonard Tow 2014 Humanism in Medicine Award; Institutional Representative/Workshop Presenter, Utilizing CLIPP Cases in Active Learning During the Pediatric Clerkship. COMSEP Pre-Meeting Workshop, Ottawa, ON, Canada; Elected Fellow of the Pediatric Infectious Diseases Society; Member, COMSEP Curriculum Task Force; Institution Representative, Committee on Medical Student Education in Pediatrics (COMSEP); Institutional Representative, Southern Society for Pediatric Research; Reviewer: Pediatric Infectious Diseases Journal, Infectious Diseases in Clinical Practice.

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

Cristina Gavrilita: Member, Alabama Baby Coalition.

Sophia Goslings: Workshop: Preparing mini-lectures for the wards. Pediatric Hospital Medicine (PHM), July 26, Orlando, FL.

David Grense: Keynote Speaker, USA COM White Coat Ceremony; Director, American Board of Pediatrics and the American Board of Pediatrics Foundation; Member, General Pediatrics Examination Committee Group B, American Board of Pediatrics; Medical Editor, ABP Subboard of Pediatric Gastroenterology Examination Committee; Member, Finance Committee, American Board of Pediatrics; Member, Board of Directors, Association of Medical School Pediatric Department Chairs, Inc. (AMSPDC); Member, Executive Council, AMSPDC; Member, Finance Committee, North American Society for Pediatric Gastroenterology, Hepatology and Nutrition (NASPGHAN); Member, Ethics Committee, NASPGHAN; Member, American Academy of Pediatrics Sub committee on Apparent Life Threatening Event; CME Chair, Alabama Chapter, American Academy of Pediatrics; Editorial Board, Pediatric Drugs; Reviewer: Journal of Pediatric Gastroenterology and Nutrition, Pediatrics, Digestive Diseases and Sciences.

Charles Hamm: Appointed to the Alabama Medicaid Agency Regional Care Organization/Quality Assurance Committee.

Grace Hundley: Poster Judge, Student and Associate Abstract Competition, Alabama Chapter, ACP Annual Meeting, Point Clear, AL; Member, Alabama Chapter Governor’s Council, American College of Physicians (ACP); Abstract Reviewer, medical student and resident poster competitions, Alabama State ACP meeting.

Anne-Marie Kaulfers: Board Member, Southeastern Diabetes Education Services.
Jessica Kirk: Medical Director, Child Advocacy Center; Member, Committee on Community Pediatrics, Alabama Chapter, AAP; Section on Child Abuse, AAP.

Anand Ponnambalam: Member, NASPGHAN Professional Developmental Committee; Reviewer: *Journal of Pediatric Gastroenterology, Hepatology and Nutrition*.

Daniel Preud’Homme: Board member, Bay Area Food Bank; Member, National Lipid Association Education Committee.

Katrina Roberson Trammell: Medical Director and Board of Directors, Gulf Regional Child Care Management Agency, Inc. (GRCMA) Gulf Regional Early Childhood Services; Moderator/Facilitator: Sickle cell distress and coping techniques for the patients and caregivers. Sickle Cell Disease Association June and July 2014 Meetings in Mobile, AL.

Abdul Hafeez Siddiqui: Reviewer: *Clinical Case Reports*.

Hanes M. Swingle: Member, Executive Committee, Alabama Interagency Autism Coordinating Council (AIACC); Boards of Directors, Autism Society of Alabama; Glenwood Autism and Behavioral Health Center, Birmingham; Advisory Board; Learning Tree, Inc.; Reviewer: *Journal of Developmental-Behavioral Pediatrics, Maternal and Child Health Journal, Pediatrics*.

R. Franklin Trim: ACGME Parker J. Palmer “Courage to Teach” Award for Program Director Excellence; President-Elect, Association of Pediatric Program Directors; Co-Chair, AAP PediaLink Resident Advisory Committee; Co-Chair, Association of Pediatric Program Directors LGBTQ Pediatric Education Group; Board of Directors, Society for Developmental and Behavioral Pediatrics; Consultant, AAP Mental Health Task Force; Director and Chair of Council, Association of Pediatric Program Directors LEAD (Program Director School); Member, Accreditation Council Graduate Medical Education (ACGME); Member and Vice Chair, Pediatric Residency Review Committee; Member, Pediatric Academic Societies Program Committee, Co-Chair for Developmental-Behavioral Pediatrics Invited and Submitted Science; Chair, AAP Committee on Pediatric Education (COPE); Curriculum Across the Continuum Task Force Leader, SDBP Education Committee; Workshop/Visiting Professor: Milestones and EPAs: building blocks for better residency programs workshop. Loma Linda University School of Medicine, Nov 14 & 15, Loma Linda, CA; Editorial Board: *Journal of Pediatrics*; Reviewer: *Journal of Developmental & Behavioral Pediatrics, Academic Medicine, Journal of Graduate Medical Education*.

Rosa Vidal: Board of Directors, Ronald McDonald House.

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

The Department of Pediatrics was delighted to welcome back Dr. Lynn Batten, USA College of Medicine alumnae and former Pediatric Residency/Pediatric Chief Resident, to USA as Associate Professor and Director of the Division of Pediatric Cardiology. The department also welcomed back Dr. Brandy Merritt, an alumnus of the USACOM Class of 2007, to the department as Assistant Professor in the Division of Pediatric Critical Care and as a Pediatric Hospitalist in the Division of General Pediatrics. Dr. Merritt completed her Pediatric Critical Care fellowship at the University of Chicago. Dr. Maria Renee Roca Garcia was appointed at the rank of Assistant Professor as a Pediatric Hospitalist in the Division of General Pediatrics after completion of her Pediatric Residency at Miami Children’s Hospital. Dr. Melody Petty completed her Pediatric Residency at USA and will join the department as a Pediatric Hospitalist in the Division of General Pediatrics. Dr. Rosina Connelly was promoted to Associate Professor and Dr. Hanes Swingle to Full Professor.

Drs. LaDonna Crews, Haidee Custodio, Benjamin Estrada, David Gremse, Druhan Howell, Hamayun Imran, Ihab Jubran, Anne-Marie Kaulfers, Jose Martinez, Daniel Preud'Homme, Cindy Sheets, Franklin Trimm and Felicia Wilson were recognized by the USACOM Class of 2014 as Distinguished Faculty at the Honors Convocation. The twentieth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship for the Class of 2014 was Sarah Elizabeth Bragg. Six of the graduating medical students in the USACOM Class of 2014 chose residencies in Pediatrics or combined Medicine-Pediatrics. Of the pediatric housestaff completing residency training in 2014, six entered private practice, three entered into fellowship training, one remained in the department as Pediatric Chief Resident and one will join the department as a Hospitalist. Two of the graduating Medicine-Pediatrics residents entered private practice and one remained in the Internal Medicine Department as Chief Resident. Twelve new first year residents entered the pediatric residency program, and three first-year residents entered the combined Medicine-Pediatrics Residency Program. Dr. Tiffany Petty completed her duties as Pediatric Chief Resident, and Dr. Laura Wright-Sexton was named Chief Resident for the 2014-2015 academic year.

The scholarly activities by the faculty of the Department of Pediatrics this year included 15 original articles and 21 published abstracts. Departmental faculty were active in mentoring pediatric residents in clinical research. There were 16 abstracts presented at regional and national meetings by pediatric residents who were the first authors with
senior authorship by members of the pediatric faculty.

Clinical services for children in our region continue to grow with the expansion of the Pediatric Hospitalist service at USA Children's and Women's Hospital. The pediatric hospitalists have taken responsibility as the attending physicians for all nonsurgical pediatric admissions, allowing the pediatric subspecialists to serve as consultants.

Quality improvement efforts to advance patient care are spearheaded by Dr. Jose Hamm as Chair of the Performance Improvement Committee at USA Children's and Women's Hospital. Individual activities included a project led by Dr. Paola Maurtua-Neumann in our department in collaboration with National Children’s Hospital that increased immunization rates in our Children’s Medical Center clinic. A resident QI project increased compliance with core measures in children hospitalized for asthma. Dr. Preud’Homme leads the effort as project coordinator in our Pediatric Healthy Life Center as a site in the Alabama Child Health Improvement Alliance Healthy Active Living: An Obesity Prevention and Treatment Quality Improvement Collaborative.

The Department of Pediatrics is participating in national collaborative projects in medical education. Dr. Trimm was instrumental in including the USA Pediatric Residency Program in a collaborative with Cincinnati Children’s Hospital and the University of Vermont in a Graduate Medical Education project that correlates Entrustable Professional Activities to Pediatric Milestones in assessment of resident’s clinical performance. In Undergraduate Medical Education, Dr. Benjamin Estrada joined forces with Duke University and UT San Antonio in a collaborative to incorporate standardized pediatric case studies from Computerized Learning in Pediatrics Program (CLIPP) activities into Team Based Learning exercises for medical students.

Major goals for the coming year include: 1) transformation of our pediatric clinics toward a Patient Centered Medical Home with training through an agreement with the American Academy of Pediatrics, 2) increasing Quality Improvement literacy among the clinical faculty in the department through training from IHI Open School, and 3) improvement in faculty assessment of learners through the EPA Milestones Correlation Project.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Bailey SW, Ayling JE, Offer T, Lenton K, inventors; South Alabama Medical Science Foundation and Children's Hospital and Research Center at Oakland, assignees. Methods and compositions containing natural folates for protecting against radiation damage. Canadian patent 2611636. 2013 Dec 10.


II. PUBLISHED ABSTRACTS


Bailey SW, Ayling JE. Comparison of 5-Methyltetrahydrofolate acid with folic acid for rapid folate repletion to reduce the risk for neural tube and other birth defects. 17th World Congress of Basic and Clinical Pharmacology; 2014 Jul 13-18; Cape Town, South Africa. Abstract no. 345.

Bailey SW, Ayling JE. Rapid folate repletion: an adjunct approach for reduction of risk for neural tube and other birth defects. 18th World Congress on Controversies in Obstetrics, Gynecology and Infertility (COGI); 2013 Oct 24-27; Vienna, Austria. Abstract no. 59.


Oshima K, Matsumoto Y, O'Neill K, McMurtry I, Stevens T, Oka M. Phenotypic characteristics of pulmonary supernumerary arterial endothelium may be involved in the formation of plexiform lesions. FASEB J. 2014;28:1089.21.


Yarbrough TM, Bauer NN. Microparticles stimulated by hypoxic pulmonary hypertension have differing effects on vascular cell growth than microparticles from severe occlusive pulmonary arterial hypertension. FASEB J. 2014;28:1090.7.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Bauer NN. Invited speaker. Microparticles: big information in tiny packages. 4th Annual Go Red for Women Symposium; 2014 Feb 7; Mobile, AL.

Cioffi DL, Cioffi EA. Invited speakers. Functional glycomics of the pulmonary and systemic endothelial vasculatures. NIH & FDA Glycosciences Research Day; 2014 May 19; Bethesda, MD.

Gillespie MN. Invited speaker. Mitochondria: more than just a powerhouse. Swintosky Distinguished Lecture, University of Kentucky College of Pharmacy; 2013 Oct 21; Lexington, KY.

Gillespie MN. Invited speaker. Controlled DNA damage and repair in transcriptional signaling. University of Kentucky; 2013 Oct 22; Lexington, KY.

McMurtry IF. Invited speaker. The roles of vasoconstriction and pressure in the pathogenesis of pulmonary hypertension. 7th International Conference on Neonatal & Childhood Pulmonary Vascular Disease; 2014 Mar 29; San Francisco, CA.

Schaffer S. Invited speaker. Taurine deficiency-mediated alterations in mitochondrial function, myocardial contraction, ER stress and cell death. 19th International Taurine Meeting; 2014 May 22; Krakow, Poland.

Schaffer S. Invited speaker. Mechanism underlying taurine deficient cardiomyopathy. 2nd Cardiovascular Forum for Promoting Centers of Excellence and Young Investigators; 2014 Sep 6; Winnipeg, Manitoba, Canada.

Wagner WW. Invited speaker. Scientific philosophy. Quest Program on Integrity. 2014 Jun 9; New York, NY.

V. NATIONAL PROFESSIONAL RECOGNITION

Abu-Bakr Al-Mehdi: Ad-hoc reviewer: PLoS One, Microvascular Research. Received the Pharmacology Education Award by the American Society for Pharmacology and Experimental Therapeutics.


Natalie N. Bauer: Chair, Awards Committee – Giles Filley Memorial Award for Excellence in Respiratory Physiology and Medicine, American Physiological Society; Member, SURF Study Section, American Heart Association; Member, Standing Review Committee, American Lung Association; Member, Pulmonary Circulation Assembly Programming Committee, American Thoracic Society; Reviewer: American Journal of Physiology – Lung Cellular and Molecular Physiology, Physiological Reviews, PLoS ONE, Respiratory Research, Arteriosclerosis, Thrombosis, and Vascular Biology, Pulmonary Pharmacology and Therapeutics, The FASEB Journal, Hypertension, Pulmonary Circulation.

Michael Chinkers: Member, American Heart Association, Molecular Signaling 2 Study Section.


Mark N. Gillespie: Member, editorial board: American Journal of Physiology, Lung Cell and Molecular Physiology and American Journal of Respiratory Cell and Molecular Biology; Member, American Thoracic Society Program, Leadership and Long Range Planning Committees; Ad hoc member, NIH study sections: Special Emphasis Panel and Respiratory Integrative Biology and Translational Research Study Section (RIBT); Manuscript reviewer: Journal of Clinical Investigation, American Journal of Physiology, American Journal of Respiratory Cell and Molecular Biology, American Journal of Respiratory and Critical Care Medicine, Free Radical Biology & Medicine, Microvascular Research, PLoS ONE.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Mark N. Gillespie, Professor and Chair of the Department of Pharmacology, was one of this year’s recipients of The Russ and Robin Lea National Alumni Association Faculty Innovation Award which recognizes USA faculty for outstanding achievement in research innovation.

The Department of Pharmacology and Dr. Eugene Cioffi hosted Dr. Gerald W. Hart during one of this year’s Distinguished Scientist Seminar Series on May 8, 2014. Dr. Hart, DeLamar Professor and Director of the Department of Biological Chemistry at John Hopkins University School of Medicine in Baltimore Maryland, presented a seminar entitled, “Nutrient Regulation of Signalin& Transcription by O-GlcNAcylation: Roles in Diabetes, Cancer and Neurodegeneration.”

One graduate student, Jamie L. Kuck, earned her doctoral degree from the Department of Pharmacology under the guidance of Dr. Mark Gillespie, who served as her major professor. Dr. Kuck defended her dissertation entitled, “MtDNA DAMP Release Mediates...
Bacteria-Induced Lung Injury” on June 19, 2014. Dr. Kuck has accepted a post-doctoral position at Vanderbilt University in Nashville, TN.

Post-doctoral fellow, Dr. Salina Gairhe, accepted a position as a post-doctoral research fellow in the Critical Care Medicine Department at the National Institutes of Health Warren Grant Magnuson Clinical Center in Bethesda, MD.
2013-2014
Summary of Scholarly Activities
Department of Physiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Ballard ST. Invited speaker. Ion, liquid and mucus transport in pig airways: recent findings with cystic fibrosis pigs. UNC Cystic Fibrosis Research Center, University of North Carolina; 2014 Jul 16; Chapel Hill, NC.

V. NATIONAL PROFESSIONAL RECOGNITION

Stephen T. Ballard: Member, American Physiological Society, Mucociliary Clearance Consortium of the Cystic Fibrosis Foundation.


James M. Downey: Emeritus Member, American Physiological Society; Fellow, American Physiological Society, Cardiovascular Section; Emeritus Member and Past President, International Society for Heart Research (ISHR); Editorial Board Member, Journal of Molecular and Cellular Cardiology, Basic Research in Cardiology, Cardiovascular Pharmacology and Therapeutics.

Mike Lin: Member, American Physiological Society, Society of Neuroscience.


James C. Parker: Editorial Board Member, International Journal of Physiology, Pathology and Pharmacology; Reviewer, American Journal of Physiology, Journal of Applied Physiology, American Journal of Respiratory and Critical Care Medicine, Critical Care Medicine, Veterans Administration Pulmonary Medicine Research Grant Study Section.

Mark S. Taylor: Reviewer, American Journal of Physiology, Microcirculation, Pharmacology, and Experimental Physiology.

Mary I. Townsley: Fellow, Cardiovascular Section, American Physiological Society; Fellow, Council on Cardiopulmonary, Perioperative, Resuscitation and Critical Care, American Heart Association; ATS Pulmonary Circulation Assembly Program Committee; Editorial Boards, Frontiers in Physiology: Vascular Physiology, Microvascular Research, Pulmonary Circulation; Reviewer: NIH T35 Study Section, American Journal of Physiology, American Journal of Respiratory and Critical Care Medicine, Circulation Research.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Department of Physiology faculty continue to contribute significantly to the educational missions of the College, as module/course directors, lecturers, facilitators of active learning sessions, and mentors. With respect to medical education, departmental faculty, including our two Emeritus faculty Drs. Downey and Parker, played a major role in the Cardiovascular module, and contributed to other modules including Foundations of Human Health, Respiratory and Renal modules in the M1 year and Endocrine/Reproductive, Musculoskeletal and Neuroscience/Behavior modules in the M2 year. Dr. Mark Taylor was honored with a Red Sash by graduating medical students. Dr. Townsley was a co-director of the Cardiovascular Module.

Physiology faculty were also active in graduate education and undergraduate research training. Three PhD students trained with departmental faculty during this academic year. Dr. Patricia Villalta, co-mentored by Drs. Townsley and Rocic (Biochemistry), completed degree requirements. Josh Waldrup, mentored by Dr. Taylor, successfully completed his qualifying examination and has progressed to candidacy. Dr. Lin mentored Justin Jong to completion of an undergraduate Honor's Thesis. Most departmental faculty contributed lectures in COM graduate courses. In addition, Dr. Weber was course director for IDL 581. Finally, Dr. Townsley was successful in renewing the Center for Lung Biology T32 grant which supports stipends for interdisciplinary research training. Drs. Ballard, Lincoln, Townsley and Weber served as faculty mentors on the T32.

Department of Physiology faculty continue to receive high recognition for their contributions in research to their respective fields through service on journal editorial boards (Drs. Cohen, Downey, Parker, Townsley), agency grant peer review groups (Drs. Parker, Taylor, Townsley, Weber) and invited presentations/seminars (Drs. Ballard, Lincoln, Townsley). Dr. Townsley was named as the University of South Alabama Phi Kappa Phi Scholar of the Year.

The end of the 2013-2014 academic year saw a major transition for the Department of Physiology, marked by the retirement of Dr. Thomas Lincoln, Professor and Chair. After receiving his PhD at University of Tennessee, Knoxville and postdoctoral training at Vanderbilt University, Dr. Lincoln held academic positions with increasing responsibilities at Vanderbilt, the University of South Carolina, the University of South Alabama, and the University of Alabama at Birmingham. At UAB, Dr. Lincoln was Division Director for Molecular and Cellular Pathology and Vice Chair for Research in the Department of Pathology. He was recruited to the position of Professor and Chair of Physiology at the University of South Alabama in 2002. During his tenure here as Chair, Dr. Lincoln proved to be an effective advocate for the Department of Physiology, was an enthusiastic mentor and educator, and remained funded by the National Institutes of Health for his work on cyclic nucleotides and smooth muscle phenotype until his retirement. Dr. Lincoln oversaw significant renovation in departmental research space and recruited new faculty with interests in vascular biology who collectively expanded
the department's research and education portfolio. We very much appreciate his contributions and service. Dr. Mary Townsley was named as Interim Chair, during an internal search for the next permanent Chair of the Department of Physiology.
2013-2014
Summary of Scholarly Activities
Department of Psychiatry

I. PUBLISHED JOURNAL ARTICLES, BOOKS CHAPTERS, AND PATENTS

Brown VM, LaBar KS, Haswell CC, Gold AL, Mid-Atlantic MIRECC Workgroup
(Youssef NA, collaborator), McCarthy G, Morey RA. Altered resting-state functional
connectivity of basolateral and centromedial amygdala complexes in posttraumatic stress

Green KT, Beckham JC, Youssef N, Elbogen EB. Alcohol misuse and psychological
resilience among U.S. Iraq and Afghanistan era veterans. Addict Behav. 2014

Johnson RB, Stefurak J. Dialectical pluralism: a metaparadigm and process philosophy
for “dynamically combining” important differences. Qualitative Methods in Psychology

Johnson RB, Stefurak T. Considering the evidence-and-credibility discussion in
evaluation through the lens of dialectical pluralism. In: Mertens DM, Hesse-Biber S,
editors. Mixed methods and credibility of evidence in evaluation: new directions for

Smith PN, Selwyn C, Wolford-Clevenger C, Mandracchia JT. Psychopathic personality
traits, suicide ideation, and suicide attempts in male prison inmates. Crim Justice Behav.

Szabo ST, Kilts JD, Naylor JC, Youssef NA, Strauss JL, Morey RA, Brancu M, Hamer
RM, Bradford DW, VA Mid-Atlantic MIRECC Work Group, Marx CE. Amino acids as
biomarker candidates for suicidality in male OEF/OIF veterans: relevance to NMDA

Williamson D, Murray DW, Damaraju CV, Ascher S, Starr HL. Methylphenidate in
children with ADHD with or without learning disability. J Atten Disord. 2014
Feb;18(2):95-104.

Youssef NA, Weiner RD. Does change in ECT electrode placement help

II. PUBLISHED ABSTRACTS

Andrew K, Bernstein J, Singh LK, Leonhardt E. Challenges and lessons learned: the case
of a deaf female adolescent with Waardenburg Syndrome presenting with perceptual
disturbances, limited sign language abilities, and medical neglect. Alabama Psychiatric
Physicians Association Spring Conference; 2014 Apr 25-26; Montgomery, AL. Abstract no. 14-1-01.


Hacket A, Selwyn CN, Smith PN. Acquired capability and resolved plans and preparations for suicidal inpatients. 60th Annual Meeting of the Southeastern Psychological Association; 2014 Mar 5-8; Nashville, TN. p. 42. Abstract no. 21-21.


Langhinrichsen-Rohling J, Kahn M, Selwyn CN, McCullars AC, Var M, Smith PN. A longitudinal study of the mental and behavioral health effects expressed in lower Alabama areas affected by the Deepwater Horizon oil spill. International Oil Spill Conference; 2014 May 5-8; Savannah, GA. Abstract no. 300245.


Youssef NA, Sidhom E. Examination of cognitive profile and variability in the current amplitude domain of low current amplitude ECT. Biol Psychiatry. 2014 May;75(9): 259S-60S.

III. PUBLISHED BOOKS

82
IV. INVITED PRESENTATIONS

Engeriser JL. Invited speaker. Combat trauma and PTSD and update on access to psychiatric care in Baldwin County. Baldwin County Medical Society Quarterly Meeting; 2014 Apr 22; Fairhope, AL.


Grenoble S. Invited speaker. 50 shades of pain: psychological impact of chronic pain (CME talk). USA Annual Sickle Cell Regional Conference; 2014 May 3; Mobile, AL.


Langhinrichsen-Rohling J. Invited speaker. Environmental disasters and mental health. Alabama Emerging Scholars Teachers' Workshop; 2014 March 21; Mobile, AL.

Langhinrichsen-Rohling J. Invited speaker. Recruiting and retaining minority individuals, couples, and families into research studies. 47th Annual Meeting of the Association for Behavioral and Cognitive Therapies; 2013 Nov 22; Nashville, TN.


Langhinrichsen-Rohling J. Invited speaker. Strengthening integrated health. Louisiana Public Health Institute Regional Care Collaborative; 2014 Jun 17; Mobile, AL.


Narahari P. Invited speaker. Differences in psychiatric treatment in United States and India and the newer psychotropics: their efficacy and affordability. Warangal Psychiatric Association; 2014 Aug 16; Warangal, India.

Narahari P. Invited speaker. Major psychiatric illnesses: their diagnosis and treatment recommendation for probated court proceedings. Mobile County Probate Court; 2014 Aug 28; Mobile, AL.

O'Leary PJ. Invited speaker. Never worry alone: worklife considerations for residents and early career psychiatrists. 2014 Area IV Conference; 2014 Aug 2; Indianapolis, IN.
O’Leary PJ. Invited speaker. Moving beyond stigma and achieving recovery. Changing Social Stigma Related to Mental Illness Conference, Children’s Behavioral Health Inpatient Psychiatry; 2014 May 9; Birmingham, AL.


O’Leary PJ. Invited speaker. History of the insanity defense. Criminal Justice Act (CJA) Attorney Panel, Continuing Legal Education Seminar; 2014 Apr 17; Birmingham, AL.

O’Leary PJ. Invited speaker. Never worry alone: worklife considerations for residents and early career psychiatrists. 2014 Regional Integrative Mental Health Conference; 2014 Apr 12; West Baden, IN.

O’Leary PJ. Invited speaker. Introduction to the DSM 5. University of Alabama School of Medicine, Psychiatric Grand Rounds; 2013 Nov 5; Birmingham, AL.


O’Leary PJ. Invited speaker. Introduction to the DSM 5. Alabama Psychiatric Physicians Association 2013 Fall Meeting; 2013 Oct 12; Birmingham, AL.

Penaskovic K, Brooks WB, Gerkin J, Mallory E. Invited speakers. Win, lose, or draw: outcomes from team-based learning implementation. Plenary I. Association of Directors of Medical Student Education in Psychiatry’s Annual Meeting; 2014 Jun 13; Keystone, CO.


Williamson D. Invited speaker. Concussion, sports, and brain damage: campaign, or clearly established? Alabama Psychiatric Physicians Association; 2014 Apr 25; Montgomery, AL.

Williamson D. Invited speaker. Concussion, sports, and brain damage: hype or horror? Grand Rounds presentation, Department of Psychiatry, Wake Forest School of Medicine. 2014 June 6; Winston-Salem, NC.

Youssef NA. Invited speaker. Resilience and mood disorders: implications for treatment and recovery. 16th World Congress of Psychiatry; 2014 Sep 16; Madrid, Spain.

V. NATIONAL PROFESSIONAL RECOGNITION

Brooks WB. University of South Alabama Chapter of the Arnold P. Gold Humanism in Medicine Honor Society. 2014.

O'Leary PJ. Fellow, American Psychiatric Association, 2014.

Youseff NA. Co-Chairman of the meeting, Planning Committee member, and CME Medical Director, Annual Meeting of the American Academy of Clinical Psychiatrists/Current Psychiatry, 2011-2014, Chicago, IL.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Psychiatry received notification from the Accreditation Council for Graduate Medical Education that its application for a Child and Adolescent and Psychiatry Fellowship was approved. The new fellowship will start in July 2014, and Edgar Finn, MD has been named as the Fellowship Director.

The American Psychiatric Foundation awarded the Helping Hands Grant to the University of South Alabama Psychiatry Medical Student Interest Group “PsychSIGN” on July 29, 2014. PsychSIGN’s award winning proposal was a project to improve mental health awareness and access to care for underserved communities. As a 2014 Helping Hands Grant recipient, PsychSIGN will be invited to create and present a poster about the project at the American Psychiatric Association’s Institute on Psychiatric Services Meeting in October 2015. Project Administrator for the grant will be W. Bogan Brooks, MD.

The Red Sash Awards from the University of South Alabama College of Medicine’s graduating class of 2014 recognized J. Luke Engeriser, MD, James Hart, DO, William Billett, MD, and Bogan Brooks, MD.

Sandra K. Parker, MD and J. Luke Engeriser, MD were appointed members of the Alabama Statewide Health Coordinating Council (SHCC) Inpatient Psychiatric Commission in May 2014.

Sandra K. Parker, MD became a member of the Alabama Medicaid Drug Utilization Review (DUR) Board in April 2014 and a member of the Alabama Medicaid Regional Care Organization (RCO) Quality Assurance Committee in October 2014.

Sandra K. Parker, MD has been a member of the Mobile County Domestic Violence Taskforce since 2008. Candes Dotson, DO and Julie Bernstein, DO have served as members of this taskforce since June 2013.

Sandra K. Parker, MD became a member of the Faculty Advisory Board for the University of South Alabama Student Run Free Clinic in March 2014.
The Department is continuing its involvement in local and district branch activities of the American Psychiatric Association. Sandra K. Parker, MD was installed as President of the Alabama Psychiatric Physicians Association (APPA) after serving for two years as the President-elect. J. Luke Engerer, MD was elected as secretary of the APPA for a two year term. Dr. Engerer served as the treasurer of the APPA during the past four years. James Hart, DO is serving as the President of the Mobile Bay Psychiatric Society.

Acting Chair, Ronald Franks, MD was installed as President of the Medical Association of the State of Alabama (MASA) after serving for a year as President-elect.

J. Clint Moore, DO continues to serve on the Board of Censors of the Medical Association for the state of Alabama (MASA) as the Resident-Fellow Representative. He is also a member of the Legislative Advocacy Committee and serves as the Region 4 Chair of the Resident-Fellow Section of the American Medical Association. He is also serving as the University of South Alabama Department of Psychiatry resident representative to the Alabama Psychiatric Physicians Association.

Candes Dotson, DO was elected the American Psychiatric Association (APA) Area 5 Resident-Fellow Member (RFM) Deputy Representative at the APA Annual Meeting. This is a two year term, and she will serve as the RFM Deputy Representative this year and as the RFM Representative next year. Candes will be representing our region which includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, Puerto Rico, South Carolina, Tennessee, Texas, Virginia (excluding suburban DC), West Virginia, and the Uniformed Services.

Christina Talerico, MD was elected the American Medical Association (AMA) Women Physicians Section (WPS) Governing Council Resident and Fellows Section Representative for a two year term. The WPS governing council represents over 70,000 women physician members of the AMA.

Mark Haygood, DO was elected the American Psychiatric Association Area 5 Early Career Psychiatrist (ECP) Deputy Representative at the APA Annual Meeting. This is a four year term and he will serve our region as the ECP Deputy Representative for two years and as the ECP Representative the following two years. He represents our region which includes Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, Puerto Rico, South Carolina, Tennessee, Texas, Virginia (excluding suburban DC), West Virginia, and the Uniformed Services.
2013-2014
Summary of Scholarly Activities
Department of Radiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Clark MH. Invited speaker. MRI and US correlation of the foot and ankle. 25th Annual Southeastern Orthopaedic Foot Club; 2014 Apr 24; Birmingham, AL.

Taylor BA, Clark M. Perry MD. Invited speakers. An arteriovenous malformation causing tarsal tunnel syndrome; a case report. 63rd Annual Meeting of the Alabama Orthopedic Society; 2014 Apr 25; Birmingham AL.

Figarola, MS. Invited speaker. Fetal MRI. 23rd USA Obstetrical and Gynecology Conference; 2014 Apr 10; Daphne, AL.

Gupta, S. Invited speaker. Abdomen/pelvis PET/CT 90 minute interactive case based presentation. RSNA; 2014 Dec 3; Chicago, IL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Byron G. Brogdon was a member of the Advisory Board of Virtopsy Foundation, Berne, Switzerland; He was a member of the Forensic Science Foundation Research Committee and a referee for the Forensic Science Foundation Acorn and Lucas Grants. Dr. Brogdon served on the Historical Committee of the General Section of the American Academy of Forensic Sciences. He was on the Board of Directors of the Senior Radiological Section of the American Roentgen Ray Society. There is a film panel named in 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. He contributed expert testimony to numerous civil and criminal cases across the United States. Dr. Brogdon was member of the Editorial Board of the Journal of Forensic Imaging of Radiology. He reviewed manuscripts and abstracts for the Journal of Forensic Sciences and Forensic Science International. He was Patron of the International Association of Forensic Radiographers. Dr. Brogdon was honored by the James-Younger Journal for his
contribution to the James-Younger Research. Several national and international journals and organizations have or will name panels and brochures in his memory.

M. Suzy Figarola is a member of the Program Directors Support Ad Hoc Committee for the Association of Program Directors in Radiology (APDR). She is also on the Clinical Learning Environment Review (CLER) Evaluation Committee

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Four residents completed the Radiology Residency Program this year. Dr. Kelly Watson-Kersey embarked upon a Breast Imaging Fellowship at the University of Kansas in Kansas City, KS; Dr. Ibrahim Koury began a Body Imaging Fellowship at Emory University in Atlanta, GA; Dr. J. Barry Mullins began a Musculoskeletal Fellowship at M.D. Anderson in Houston, TX; Dr. John Roberts is doing a Body Imaging Fellowship at Duke University in Durham, NC.

The faculty recognition award for excellence in teaching was presented to Dr. Melanie Clark by the 2014 radiology graduating class. The graduating class also presented a gift to Mrs. Vanessa Brown, Residency Program Coordinator for outstanding contributions to their educational experience.

Dr. Melanie Clark continues to serve as reviewer for two nationally distributed and professional respected journals: The orthopedic surgery hand subspecialty journal (The Journal of Hand Surgery) and the musculoskeletal radiology subspecialty journal (Skeletal Radiology). She was invited for a second year to the Annual Southeastern Orthopaedic Foot Club meeting as the sole radiology speaker and was recently honored with promotion to a joint appointment in orthopedic surgery. She maintains her status as division director of musculoskeletal imaging, emergency medicine committee member and was appointed as MRI safety director as part of the MRI safety committee. She is actively involved in medical student and orthopedic surgery and radiology resident education continuing as the program director for the new orthopedic surgery resident rotation in radiology, a core requirement for their internship, and as a member of the radiology clinical competency and program evaluation committees. She was honored with the 2014 Teaching Award from the senior radiology residents. She also continues grand rounds presentations for the departments of orthopedic surgery and family medicine. Dr. Clark has also made a commitment to quality and performance improvement in the hospital and her department. She was appointed to the Radiology-Pharmacy Clinical Product Line Group as physician champion. She was also appointed to the emergency medicine chair search committee and the hospital performance improvement council as well as GME performance improvement task force. She obtained junior level certification for health professionals from the Institute for Healthcare Improvement and continues quality improvement projects in the department with Drs. Gupta, McQuiston, and Standley. Dr. Clark serves in both regional and state-wide radiology organizations as president of the Southern Radiological Society and as a committee member on mid-level providers with the Alabama Academy of Radiology.
Dr. Shixha Gupta serves as a member of the Radiology Residency Review Committee, and Director of Radiology Courses for the College of Medicine, as well as Clinical Clerkship Director for Radiology.

Dr. M. Suzy Figarola continues to serve as Vice Chairman of the Department as well as chief of Pediatric Radiology. She is a member and advisor to the team working on the new physician office building. As Residency Program Director she instituted Milestones into the Next Accreditation System (NAS) which is a residency program requirement. She met with the Radiology faculty to educate them on the new Milestones and NAS requirements which included changes in the radiology faculty evaluation form. She serves as Chair of Radiology’s Clinical Competency Committee (CCC) and Program Evaluations Committee (PEC). Dr. Figarola is serving on the Health Sciences Billing and Compliance Committee. Dr. Figarola has served her third year on FCAPE. In addition, she has maintained memberships on multiple committees including Medical Executives Committee, GMEC, Women’s Quality Service Committee at USA Children’s and Women’s Hospital, MRI Safety Committee, and Combined Credentialing Committee. She has been selected by the Designated Institutional Officer (DIO) of the Graduate Medical Education Committee to serve on a Special Review Committee. Dr. Figarola was a 2014 Spokesperson for the USA Employee Annual Fund. She has been selected to be in the inaugural class of the Executive Leadership Course, given by the Mitchell College of Business.

Dr. Donald E. Herbert (Emeritus) continues his work on a monograph that is to provide to medical physicists an introductory overview of several of the mathematical and statistical models and methods required to support the development and implementation of a post-genomic, more “personalized”, medicine by addressing the problems of between- and within-patient variations in the efficacy and toxicities (both on-target and off-target side effects) of treatments arising from the “modulations” of PK and PD processes by SNPs (between-patients) and circadian rhythms (within-patients).

The statistical topics include 1) finite mixture models of heterogeneous probability density functions (The clinical problem of individualizing treatment is related to the statistical problem of heterogeneity of treatment effects) and 2) Empirical Bayes (EB) meta-analyses of clinical trials. (EB essentially uses the information obtained in a set of \( k > 3 \) clinical trials to obtain “improved” simultaneous estimates of the respective treatment effects in each of the component trials by exploiting the James-Stein paradox in a meta-analysis of the 2\(^{nd}\) kind.) The current draft of the monograph is 227 pages (122,251 words) in length and includes over 120 figures.

Dr. Samuel McQuiston serves as the Assistant Dean for GME, Designated Institutional Official and Chair of the GME. Dr. McQuiston served as a member of the 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, and Co-Director of Radiology Courses for the College of Medicine.
In August of this year, the Department of Radiology has been fortunate to recruit two Fellowship trained Radiologists: Joel Lightner Jr., MD., completed his Fellowship in Breast Imaging at Virginia Commonwealth University in Richmond, Virginia following his internship at Tulane School of Medicine in New Orleans and his Residency at the University of Vermont. Derek Samuels, MD., completed both his Residency and his Interventional Radiology Fellowship at the University of South Florida and received his M.D. from the Eastern Virginia Medical School.

With deep regret Byron G. Brogdon, MD, Professor Emeritus and former department Chair passed away March 28, 2014. He continued his prolific contributions to the department throughout his final days.
2013-2014
Summary of Scholarly Activities
Department of Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Allen JM, Parker RW, Gonzalez RP, Brevard SB, Frotan MA, Simmons JD. Invited speakers. Evaluation of the impact of obesity on clinical outcomes in adult trauma patients with nosocomial pneumonia. Society of Critical Care Medicine 43rd Critical Care Congress; 2014 Jan 10; San Francisco, CA.


Brevard SB. Invited speaker. Here I stand - a call for reformation in medical school curriculum in bioethics. Center for Bioethics and Human Dignity 21st Annual Summer Conference; 2014 Jun 20; Deerfield, IL.

Brevard SB. Invited speaker. Transitions in surgical care of intersex disorders. Center for Bioethics and Human Dignity 21st Annual Summer Conference; 2014 Jun 21; Deerfield, IL.


Frotan MA. Invited speaker. Ultrasound in the ICU. 5th Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2014 Mar 27; Mobile, AL.


Grimm L. Invited speaker. GI Oncology Panel. Oncology Outlook 2014; 2014 Mar 15; Point Clear, AL.

Grimm L. Invited speaker. Transanal hemorrhoidal dearterialization (THD) - another hemorrhoid alternative. American College of Surgeons Alabama and Mississippi Chapters 2014 Annual Conference; 2014 Jun 14; Sandestin, FL.

Mitchell E, Strother J, Rawat D, Hodge J, Gupte SA, Gulati S. Invited speakers. Increased free radical generation by ischemia-reperfusion or high blood glucose in skin wounds may influence recovery after thermal injury. 26th Southern Region Burn Conference; 2013 November 16; Tampa, FL.


Reed C, Hodge J, Gulati S, Brumfield N, Reed G, Schulz L. Invited speakers. Effectiveness of diabetic educational video at University of South Alabama Medical Center. 4th Annual South Alabama Conference on Teaching and Learning; 2014 May 12; Mobile, AL.

Richards WO. Invited speaker. Surgical treatment for Barrett's esophagus. Minimally Invasive Surgery Symposium; 2014 Feb 27; Las Vegas, NV.

Richards WO. Invited speaker. Gastroparesis diagnosis and treatment. Minimally Invasive Surgery Symposium; 2014 Feb 27; Las Vegas, NV.

Richards WO. Invited speaker. GIST tumors. Minimally Invasive Surgery Symposium; 2014 Feb 27; Las Vegas, NV.

Richards WO. Invited speaker. What is the best way to fix a failed lap Nissen? - identify unsuccessful lap Nissen repair and available options to repair it. Medical University of South Carolina 43rd Annual Postgraduate Course in Surgery; 2014 Mar 28; Charleston, SC.


Richards WO. Invited speaker. What do I look for in a new hire? Society of American Gastrointestinal and Endoscopic Surgeons 2014 Surgical Spring Week Scientific Session & Postgraduate Courses; 2014 Apr 2; Salt Lake City, UT.

Richards WO. Audia, JP, Alvarez DF. Invited speakers. Bariatric surgery improves the number of late outgrowth endothelial progenitor cells. Annual Scientific Session of American Society For Metabolic and Bariatric Surgery at Obesity Week; 2013 Nov 15; Atlanta, GA.


Simmons JD. Invited speaker. Novel pharmacological strategies to treat multiple organ failure. 5th Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium; 2014 Mar 27; Mobile, AL.

Tan MCB. Invited speaker. Liver resection for metastatic colorectal cancer: clinical and biological correlates. Escambia County Medical Society 2014; 2014 Apr 15; Pensacola, FL.


V. NATIONAL PROFESSIONAL RECOGNITION

Sidney B. Brevard: Diplomat: American Board of Surgery; Fellow: American College of Surgeons; Member: Society of Critical Care Medicine; Member: Eastern Association for the Surgery of Trauma. Dr. Brevard serves as the State Chair Committee on Trauma Alabama Chapter of the American College of Surgeons.

D. Lynn Dyess: Guest Editor American Surgeon Board.

M. Amin Fotan: Fellow American College of Surgeons, Society of Critical Care Medicine, American Burn Association, Association for the Surgery of Trauma.

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

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


**Paul F. Rider:** Member: American Board of Colon and Rectal Surgery; Clinical Trial: CBSG Study Group. Bioabsorbable staple line reinforced in colorectal anastomoses: analysis of a prospective randomized study. Keck School of Medicine, University of Southern California Department of Surgery, Division of Colorectal Surgery. Los Angeles, CA.

**Charles B. Rodning:** 4th Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium. 2014 Mar, Mobile, AL.

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

**Jon D. Simmons:** Member: Society of Critical Care Medicine, Southeastern Surgical Congress, Eastern Association for the Surgery of Trauma; Fellow of American College of Surgeons.

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

**Medical Student Education:** The Department of Surgery continues to have a leadership role in many aspects of student education. Roy E. Gandy, M.D., F.A.C.S., Salil Gulati, M.D., F.A.C.S., Lee Grimm, M.D., F.A.C.S., William O. Richards, M.D., F.A.C.S., Paul F. Rider, M.D., F.A.C.S., Charles B. Rodning, M.D., F.A.C.S., Fred Silver, M.D., F.A.C.S. and Jon D. Simmons, M.D., F.A.C.S. were awarded the red sash award by the senior medical students for their contributions to education. In addition, many faculty including Drs. Grimm, Tan, Luterman, Richards, Hodge, Beals and Rider participated in the active learning sessions for the first and second year students under the new system based curriculum.

**General Surgery Residency Training:** Dr. Richards in his third year as Program Director along with associate program director Dr. Jon D. Simmons continue to make progress on resident performance on written and oral boards in surgery. All the graduating residents for the last three years have passed their oral boards and 92% of the graduates for the past three years have passed their written boards on the first examination. Dr. Simmons has provided outstanding leadership for resident education in his role as Associate Program Director for General Surgery Residency training program. Many of the accomplishments for the residency program and the tremendous advances in academics, ABSITE performance, and educational activities of the Department of Surgery can be directly attributed to Dr. Simmons. In August Dr. Simmons was named as Program Director of the General Surgery Residency Program.

Dr. Rider provided leadership for the newly created Clinical Competency Committee that set milestones and performance objectives for the residents in the general surgery residency program. Other Committee members were Drs. Gandy, Gonzalez, and Simmons.
Division of Traumatology/Surgical Critical Care: Sidney B. Brevard, M.D., F.A.C.S., was named the interim director of the Division and program director of the surgical critical care fellowship program in September upon the resignation of Dr. Gonzalez. Loretta Brestan, M.D. successfully finished the critical care fellowship and accepted a job in Florida. Derek Canon, M.D. started in July as the surgery critical care fellow. The department is actively recruiting two additional trauma critical care surgeons.

Dr. Simmons was awarded the prestigious George A. Clowes Memorial Career Development Award from the American College of Surgeons directed at a surgeon in the early stages of their career who shows promising development as a surgeon scientist. The award supports his research efforts for 5 years. Dr. Simmons was also awarded two grants: The AHA Mentored Clinical Research Award entitled “Mitochondrial DNA DAMPs as a key effector molecule in the pathogenesis of TRALI” and the AAST Research and Education Foundation award for “The role of mtDNA DAMPs in the pathogenesis of ventilator associated pneumonia.”

Dr. Brevard directed multiple courses of Advanced Trauma Life Support Training, and hosted the regional competition the Alabama Chapter of the American College of Surgeons Committee on trauma resident paper competition. He has been very active in conducting clinical trials of medications to improve outcomes in patients who have suffered from severe traumatic brain injuries.

Dr. Frotan provided outstanding service to the trauma and burn units in all aspects of clinical care. In addition he took over direction of the training simulation labs, animal and human cadaver labs and provided invaluable education in abdominal wall reconstruction and surgical approaches for exposure in trauma.

Pediatric Surgery: John R. Gosche, M.D., F.A.C.S. has done an outstanding job as the second pediatric surgeon in the Division headed by Dr. Daniel Beals. The Division is actively recruiting a third pediatric surgeon who can help take care of the large number of complex pediatric surgical cases and emergencies arising from the level 3 NICU. Dr. Beals participates in teaching Medical Ethics teaching at the resident and medical student levels.

Colorectal Surgery: Drs. Grimm and Rider conduct multidisciplinary colorectal cancer clinics at the Mitchell Cancer Institute in collaboration with radiation and medical oncologists in order to provide improved cancer care in the region. With the recruitment of Dr. Grimm the USA Department of Surgery is increasingly recognized for its clinical expertise in colorectal and gastro-intestinal surgery. Dr. Grimm has been appointed as the Associate Third Year Medical Student Clerkship Director.

General Surgery: The Charles and Mary Rodning endowment for the educational activities of our residents has proved to be instrumental in funding travel for surgical residents to present their scientific work at regional and national meetings. Dr. Rodning has retired from active practice but continues to coordinate Departmental conferences,
and academic activities. Dr. Gandy is very involved in medical student education as the Director of the Junior Medical Student Clerkship while Dr. Hodge has focused her educational activities on the first and second year medical students as part of the active learning curriculum.

**Breast and Endocrine:** Dr. Dyess has moved her practice to the MCI clinics and has increased her clinical load substantially. We are adding nurse practitioner clinics so that they can provide long term care for breast cancer patients as well as starting a new thyroid clinic for evaluation and treatment of thyroid lesions. Dr. Dyess is making plans for the multi-disciplinary Breast Center to improve the care of women with breast cancer in the upper Gulf Coast.

**Plastic and Reconstructive Surgery:** Dr. Gulati serves as the Medical Director of the USA Regional Burn unit. This has led to the very successful transition from the directorship of Dr. Luterman to Dr. Gulati serving as the Medical Director with Dr. Frotan as the Critical Care Director of the burn unit. Drs. Gulati, and Frotan, attended the American Burn Association meeting with other members of the Burn Unit, and have presented their scientific work in multiple forums.

**Gastrointestinal and Bariatric surgery:** The Bariatric surgery program continues to increase the number of operative cases and has less than 0.1% operative mortality rate, and expects to apply for a Center of Excellence accreditation from the ASMBS/ACS system in 2015.

**Surgical Oncology:** The Department of Surgery recruited Dr. Marcus Tan to fill a vacant position in surgical oncology. Dr. Tan was recruited from Memorial Sloan Kettering Surgical Oncology Fellowship and has specific interest in Hepatobiliary Pancreatic, and Gastrointestinal Cancers. He has developed a research program in oncology and has organized the G.I. working group incorporating radiation, and medical oncologists with colorectal and G.I. specialist to provide multidisciplinary care for cancer patients. Dr. Tan has also provided exceptional educational expertise coordinating the USAMC multispecialty tumor conference.

**Research:** The Department has increased collaboration between basic science departments, specifically; the research collaboration with the Chair of Pharmacology Mark Gillespie, PhD. has been very fruitful. We have implemented a clinical core to collect blood, muscle and other tissue samples from our patients, ultimately, with the goal to submit a P50 trauma/burn center grant in collaboration with basic science departments and the Department of Surgery. This collaboration between Surgery (Simmons, Gonzalez, Brevard, Richards, Lee) and Pharmacology (Gillespie, Mulekar, and Hill) resulted in a publication in the Annals of Surgery. We concluded that “These findings comprise the first observational evidence that plasma mtDNA DAMPs is associated with the evolution of SIRS, MODS, and mortality in severely injured human subjects.”

Recognizing the scientific breakthrough that was achieved by this collaborative effort, the Department has put resources into the effort and faculty have submitted multiple grant
proposals to further capitalize and investigate the link between severe trauma, mtDNA DAMPs and multiple-organ failure. Residents working on this project have also been recognized for their outstanding research contribution. Two residents were selected as the winners of the Alabama Chapter, American College of Surgeons, Committee on Trauma (COT) resident research competition in October 2013. Dr. Larry Lee for his basic science research entitled "Oxidative Mitochondrial (mt) DNA Damage as a Mechanism for Trauma-Induced mtDNA DAMP Production." Dr. Jack Rostas for his clinical science research entitled "The Validity of Abdominal Examination in Blunt Trauma Patients with Distracting Injuries." Dr. Larry Lee was selected to represent Alabama and Region IV with his basic science paper at the national COT competition on March 27, 2014 in Philadelphia, PA.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS


II. PUBLISHED ABSTRACTS


Britton R, Burnham J, Li J. Determining allied health core titles. Charleston Conference Too Much is Not Enough; 2013 Nov 6-9; Charleston, SC. Available from:


Lemley T, Gordon-Hickey S. Background noise acceptance and personality factors involved in library environment choices by college students. 7th Annual USA College of Medicine Research Forum; 2013 Nov 1, Mobile, AL. p. 3. Abstract no. 28.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Wright AL. Invited speaker. Finding community online. University of South Alabama Baldwin County Campus Social Media & Technology Users Conference; 2013 Oct 8; Fairhope, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Judy Burnham: Fellow, Medical Library Association; Member, Association of Academic Health Science Libraries Program and Education Committee; Chair Southern Chapter/Medical Library Association Local Arrangement Committee 2014 Meeting; Distinguished Member Academy of Health Information Professionals.

Robert Britton: Member, Medical Library Association Darling Medal for Distinguished Achievement in Collection Development in the Health Sciences Jury; Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting; Provisional Member, Academy of Health Information Professionals.

Clista Clanton: Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting.

Christy Kent: Medical Library Association Consumer Information Health Specialist Certification (CHIS); Member, Alabama Health InfoNet Board; Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting; Member, Hospitality Committee, Alabama Health Libraries Association 2014 meeting; Editor and columnist for Synapse, Newsletter of the Alabama Health Libraries Association.

Trey Lemley: Member, Southern Chapter Medical Library Association Local Arrangements Committee 2014 Meeting; Member Southern Chapter/Medical Library Association Executive Committee; Chair, Southern Chapter/Medical Library Association Professional Development Committee; Member, Southern Chapter/Medical Library Association Program Committee; Member, Southern Chapter Medical Library Association Membership Committee; Distinguished Member, Academy of Health Information Professionals.
Jie Li: Member, The International Federation of Library Associations and Institutions Information Technology Standing Committee; Member, Medical Library Association Cunningham Jury; Chair, Medical Library Association International Cooperation Section Committee on Health Sciences Library Partnership; Member, Emergency Preparedness Committee of Regional Advisory Committee of the National Network of Libraries of Medicine (NN/LM) Southeastern/Atlantic (SE/A) Region; Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting; Distinguished Member Academy of Health Information Professionals.

Justin Robertson: Editorial Board, Journal of Electronic Resources in Medical Libraries; Editorial Board, Perspectives in International Librarianship; Member, Health InfoNet Board; Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting; President-Elect, Alabama Health Education Library Association; Web Co-Coordinator, Alabama Health Education Library Association.

Geneva Staggs: Member, Southern Chapter/Medical Library Association Local Arrangements Committee, 2014 Meeting; Judge, Medical Library Association Professional Development Committee; Distinguished Member Academy of Health Information Professionals.

Andrea Wright: Member, Regional Advisory Committee for Technology of the National Network of Libraries of Medicine (NN/LM) Southeastern/Atlantic (SE/A) Region; Member, Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting; Web Co-Coordinator, Alabama Health Libraries Association; Provisional Member Academy of Health Information Professionals.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Services
As a result of a meeting with College of Medicine (COM) students concerning the Biomedical Library (BL), a student portal on the web page was developed that contains links to required and recommended textbooks. BL librarians were assigned to COM TBL groups for Year 1 students. To support the new COM curriculum, the Biomedical Library librarians have continued to develop a Clinical Skills Multimedia web page with links to appropriate video and audio tools.

Two librarians continue to attend a total of nineteen hospital committee meetings, including hospital management meetings at both the USA Medical Center and the USA Children’s and Women’s Hospital as well as the Graduate Medical Education Committee. A librarian continues to serve on the COM Curriculum Committee, the COM Student Promotion and Evaluation Committee and the COM Continuing Medical Education Committee. Two Biomedical Library librarians serve on Faculty Senate (one for University Libraries and one for the College of Medicine). A Biomedical Library librarian serves on the University Library Committee and the Biomedical Library Director serves as ex-officio member of the University Library Committee. One librarian serves on the USA Cancer Control & Prevention Work Group. Two Biomedical Library
librarians serve as Ad-Hoc members of the College of Medicine Admissions Committee. A Biomedical Library librarian serves on the Advisory Committee and the Research Committee for the Student Run Health Clinic and on the Inter-professional Ad-Hoc Committee.

A Biomedical Library librarian continues to check citations for both College of Medicine dissertations and for the College of Medicine Annual Report. A plan for revision of the Biomedical Library web pages is underway. The Technology Librarian is reviewing design trends and developing a plan to obtain feedback from users.

*Biofeedback*, the Biomedical Library newsletter, the Biomedical Library Facebook page and the blog on the Biomedical Library web page are used to communicate with users. Additionally, blast e-mails are distributed as appropriate.

Educational sessions were provided for students in Colleges of Medicine, Nursing and Allied Health Professions. Online tutorials were developed including one targeting distance nursing students. The Medical Informatics/Evidence-Based Medicine Curriculum for the COM was revised but was only included in the Cardiovascular Module. The Biomedical Library is working with the COM Division of Medical Education to integrate this curriculum. At the end of instructional sessions in the three colleges, students were asked to complete an online evaluation. Results indicate that of those responding, most felt the amount of material presented was "Just Right" and found the information presented helpful. A session on predatory open access journals was presented to COM Executive Committee and to faculty at the Mitchell Cancer Institute.

Therapy dogs were invited to the Biomedical Library during Summer Semester exam time. This event proved quite popular and will be continued during Fall Semester 2014 exam time.

**Facility**
In Spring 2014, the Reference Desk was moved to the first floor near the Circulation Desk. Staff development sessions were held for both faculty and staff in preparation for this move.

The Children’s and Women’s Hospital Library site continues to be un-staffed but instead is opened/closed by C&W Security each day. Instructions are available for obtaining reference assistance from the campus reference desk and a staff member monitors the site each morning.

**Outreach**
Funding was received from the National Library of Medicine via the Southeast Atlantic Region/National Network of Libraries of Medicine for the Health Care Information for Seniors (HCIS) Project. This project provided staff, equipment and supplies to deliver educational programs at SAIL Centers in the three zip codes of health disparities as well as the churches that participated in the Empowering Health Ministry Leaders project. The initial class was an introductory demo of how to locate quality health care
information. The follow-up session will use iPads provided by the award budget for actual hands-on practice in locating quality health care information.

During National Medical Libraries Month, and National Library Week several contests were held for library users. Also, books were collected for the USA Pediatric Clinic Reach Out and Read program.

Biomedical Library librarians participated in the University pipeline programs, DREAM and STARS. For STARS, the amount of time allotted for library instruction was shortened from the previous year so the curriculum was revised based on past experience and instruction was provided on conducting library research. The Biomedical Library continues to participate in the Center for Healthy Communities activities including the Health Disparities Research Group, and the Community Health Advocates. A Biomedical Library librarian is also active in the USA Stroke Support Group. Additionally, a Biomedical Library librarian volunteers in the computer lab at the Sybil Smith Family Village. Biomedical Library librarians participated in the USA Benefits Fair and the Healthy USA Health Fair. Three Biomedical Library librarians participated in the community event, Homeless Connect.

Resources
The resource budget for the Biomedical Library was increased for 2013-2014. This increase was used to offset the increased cost of resources.

New resources added during the year include Joanna Briggs Institute, Clinical Key (replaces MDConsult), JoVE and BMJ Best Practice.

Personnel
Using external funding initially, Christy Kent, joined the Biomedical Library faculty as Outreach Librarian. She is responsible not only for providing information to the University community on the Biomedical Library resources and services but also providing information to the community on accessing quality healthcare information.

Miscellaneous
The College of Medicine clinical faculty and 2nd year students were surveyed to determine satisfaction with the services and resources. Data were entered into TracDat and comments were addressed in issues of the Biomedical Library newsletter, Biofeedback.

A Planning Retreat was held to develop goals for 2014-2015 and discuss new roles for the Biomedical Library librarians.

The 65th annual meeting of the Southern Chapter/Medical Library Association will be held in Mobile in October 2014. BL librarians are serving on the Local Arrangements Committee.
2013-2014
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, postgraduate, 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 recently submitted its Newsletter in October of 2014. 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 Spring of 2015 (http://www.usahealthsystem.com/CLBNewsletter).

We have continued to update our CLB website along with the College of Medicine. Our administrative offices are located in the Medical Sciences Building in Rooms 3340 on the main University campus. Ms. Jennifer Collins serves as support staff for the CLB and is 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. Jennifer Collins (460-7086) 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, XXIX Congress of the International Society for Advancement of Cytometry, American Physiology Society, Southern Biomedical Engineering Conference, Gordon Conference, and the International American Thoracic Society.

Our Critical Care Conference series in conjunction with the Department of Medicine’s Pulmonary Division hosted six speakers. This conference focuses on translational research and acute lung injury, and is held monthly on Fridays at 2:00 pm. CLB faculty members presented most of this year’s series with one outside speaker. Dr. Ivan McMurtry, Professor of Pharmacology, presented Rho Kinase-Mediated Vasoconstriction Is Important in The Pathogenesis of Pulmonary Arterial Hypertension; Dr. Larry Lee, Resident PGY 3, Department
of Surgery and Pharmacology, presented "Mitochondrial DNA integrity is a pharmacologic target in acute lung injury and multiple organ system failure"; Dr. Silas Leavesley, Assistant Professor, Chemical and Biomolecular Engineering, presented “Spectral Imaging and Automated Image Analysis: What Can They Do For Me?”; Dr. Karen Fagan, Professor and Chief Pulmonary and Critical Care, presented “Clinical research in PAH”; Dr. Mary Townsley, Professor of Physiology, Associate Dean for Faculty Affairs, presented “Pulmonary edema in heart failure: mechanisms and therapeutic targets”; Dr. Kohtarou Abe from Kyushu University Graduate School of Medicine, Fukuoka, Japan, presented “Can Hemodynamic Unloading Reverse Vascular Remodeling in Severe Pulmonary Arterial Hypertension?”

Extramural Funding

In the past year, CLB principal investigators submitted 33 grant applications to the American Heart Association (AHA), National Institutes of Health (NIH), and other foundations/industries. To date, five applications from the previous fiscal year were awarded generating over $1.95 million in new funding over the next five years.

Ningyong Xu, Graduate Student in Pharmacology, received a fellowship from AHA, Greater Southeast Affiliate entitled Orai1 is a critical determinate of sodium permeation through pulmonary endothelial store-operated calcium entry channels. Dr. Adam Morrow, Postdoctoral Fellow in Pharmacology, received a fellowship from AHA, Greater Southeast Affiliate entitled Pseudomonas aeruginosa infection causes a taniopathy of the lung. Dr. Jon Simmons, Assistant Professor of Surgery, received the following three awards, an AAST Award and entitled Mitochondrial DNA DAMP’s – A Pharmacologic Target in Ventilator Pneumonia, an ACS Clowes Memorial Research Development Award entitled Mitochondrial DNA DAMPs, A Pharmacological Target in Multiple Organ Dysfunction Syndrome, and AHA National Mentored Clinical & Population award entitled Defining a new pathogenesis and treatment for delay TRALI.

Education

The 3rd five year cycle of funding was awarded for the CLB’s NIH-funded T32 training grant on Cell Signaling and Lung Pathobiology, directed by Drs. Mary Townsley and Troy Stevens. Currently in its 11th year of funding, it supports 6 pre-doctoral trainees in the Lung Biology track per year, along with 4 short-term summer research trainees.

During this academic year, 23 predoctoral fellows trained in the laboratories of CLB faculty and affiliated with the Lung Biology track in the Basic Medical Sciences Doctoral Program. Three of these Lung Biology trainees completed requirements for the Ph.D. (Comer, Kuck and Villalta). Two Lung Biology trainees are currently supported by individual predoctoral fellowships (McLendon and Xu).

The “Did you know?” series of research/historical perspectives, now in its ninth year, is authored and peer-reviewed by CLB trainees. This series is overseen by an Editorial Board comprised of junior faculty in the CLB. In this past year, our trainees authored articles on lung transplantation.
(Jamie Kuck) and TRPC4 and lung endothelial permeability (Ningyong Xu). The archives of the series can be found at: http://www.usahealthsystem.com/archives.

The third annual CLB/Division of Pulmonary and Critical Care Medicine collaborative “Lung Bowl” was held in August 2014. Teams comprised of predoctoral students, postdoctoral fellows, and clinical fellows in CLB training programs tackled clinical case scenarios in a team-based learning format and basic/historical knowledge in speed round questions. Team “Lobe Trotters” – comprised of graduate students Pierre Kadeba, Leslie Hargett and Kathleen McClinton, and postdoctoral fellow Adam Morrow – became the 2014 Lung Bowl Champions.
2013 – 2014
Summary of Scholarly Activities
Center for Healthy Communities

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Icenogle ML, Slagle MI, Arrieta MI. Methods for continuity of care post disaster in three gulf coast states. Seventh Annual Health Disparities Conference; 2014 Mar 10-12; New Orleans, LA. Abstract no. 3.02.03.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Crook ED. Invited speaker. Weight status and high blood pressure among low-income African American men: elimination of health disparities as a model for scientific investigation. Lipid Lovers Research Seminar; 2013 Dec 6; Birmingham, AL.
Icenogle ML, Slagle MI. Invited speakers. Disaster preparedness in the Florida Panhandle: improving continuity of care for those with chronic medical conditions. UAB 9th Annual Health Disparities Research Symposium; 2014 Mar 20; Birmingham, AL.

Icenogle ML. Invited speaker. Management community-based collaborative networks to improve disaster resilience in health disparate populations: a case study of the ready alliance coordinating for emergencies (BRACE) of Escambia County, Florida. UAB 9th Annual Health Disparities Research Symposium; 2014 Mar 20; Birmingham, AL.

Fruh SM. Invited speaker. Community-mental health nursing perceptions and specific behaviors related to pre-planning meal practices with individuals residing in health disparity zip codes. UAB 9th Annual Health Disparities Research Symposium; 2014 Mar 20; Birmingham, AL.

Fruh SM. Invited speaker. Beliefs and barriers related to healthy eating. 1st Annual Transcultural Nursing Society Chapter Alabama and Mississippi Research and Cultural Symposium; 2014 Apr 4; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Hattie Myles: Member, Board of Trustees, Alabama Agriculture and Mechanical University.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The University of South Alabama Center for Healthy Communities had a productive year. The Center is in the second year of this second 5 year cycle of the P-20 grant funding from NIH’s National Institute for Minority Health and Health Disparities. The Center is a NIH Designated Center of Excellence in Health Disparities. Dr. Errol D. Crook continues as the Center Director and the PI of the P-20 Grant. The Center’s efforts are focused on research and community engagement. We continue to use the principle of Community Based Participatory Research as our guide, and, as such, we work extremely hard to establish and maintain quality relationships with our community partners. A brief summary of our research and community engagement efforts are outlined below.

Research

Dr. Martha Arrieta continues to lead the research core. The core oversees 3 primary projects funded by our P-20 grant and works with several other partners in smaller, but important projects. The 3 research projects funded by the P-20 grant are making great progress, and are as follows:
1) Plasma HSP27 and HSP27 Phosphorylation, a Potential Biomarker of Atherosclerosis in Patients with Cardiovascular Disease. PI: William Gerthoffer, PhD.


3) Sentinel Surveillance to Monitor Progress Towards Health Equity. PI: Martha Arrieta, PhD.

Community Engagement

The Community Engagement Core is co-directed by Roma Hanks, PhD and Hattie Myles, PhD. The two (2) main components of this core are The Community Health Advocate (CHA) Program and The Pipeline Program. Our CHA program continues to thrive with several of our CHA's now utilizing the skills acquired in our program in unique employment opportunities. The CHA's remain in developing programs, disseminating information, and advising investigators in their effort to reduce health disparities.

During this period, CHAs conducted sixteen (16) community events and reached a total of 262 registered individuals. We continue to strive to improve our ability to track CHA outreach into the target communities. The Pipeline component aims to reinforce the STEM courses, expose them to the health professions, and influence their choice of a health professions career. This is done through two components: S.T.A.R.S. (Student Training for Academic Reinforcement in the Sciences) and S.T.R.I.P.E.S. (Special Training to Raise Interest and Prepare for Entry into the Sciences) Programs. These programs actively engage participants in advanced high school curricula, library research, reading and test-taking skills. These programs engage rising high school juniors and seniors. The 2014 Pipeline component involved ten students in the STARS program from three local high schools. Seven of the ten students represented our magnet high school. Three graduates of the S.T.A.R.S. and S.T.R.I.P.E.S. Program returned to serve for four weeks as program interns, and six weeks as Shadows. Two former participants, who are now college sophomores, were selected to conduct research as part of the University's Undergraduate Research Program. Their research projects were titled, "Understanding Health Disparities Through Sentinel Surveillance: A Comparison of Morbidity, Knowledge, and Perceptions of Cardiovascular Disease Among Residents of Mobile County Zip Codes" and "Understanding Health Disparities Through Sentinel Surveillance: A Comparison of Morbidity, Knowledge, and Perceptions of Diabetes Among Residents of Mobile County Zip Codes", respectively.

Students were given pre and post-tests at the beginning of the program. Each student showed an increase in each subject, with the exception of Algebra in which two students decreased between pre and post-tests. The average increase from pre to post scores across all subjects was 21.86%. Our STEM courses for the Pipeline Program include, Science, Technology, English and Mathematics.
The program also exposed students to other local college campuses; University of Mobile and Spring Hill College. Other activities included an OB/GYN Seminar, ACT Preparation, Development of a Family Health Tree, Educational Leadership Training Seminar focused on Academic, Relationship and Creative Perspectives.

The Program continues to move students through the Pipeline to reach subsequent levels of research, the DREAM Program and ultimately medicine to other health professions.

Research Training and Mentoring

Dr. Crook continues as Director of this core. We have been successful in continuing the pipeline from our high school programs, mentioned above, to undergraduate studies and research efforts. Students who have demonstrated great promise in our high school programs have worked during the summers on research projects of the Center. A student who went through our high school pipeline programs and our undergraduate research programs was accepted to the University of South Alabama College of Medicine for the Fall of 2014.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Muisyo J. Invited speaker. Demonstration and training of the healthy active living data abstraction form. Alabama Child Health Improvement Alliance, Healthy Active Living: An Obesity Prevention and Treatment Quality Improvement Collaboration; 2014 Aug 23; Birmingham, AL.

Oliver B. Invited speaker. University panel: telehealth remote biomonitoring program. 2nd Annual Alabama Rural Health and TeleHealth Summit; 2013 Oct 18; Prattville, AL.

Roach D. Invited speaker. Pilot program to enhance chances of successful HIE. 2014 State Healthcare IT Connect Summit; 2014 April 2; Baltimore, MD.


Seall M. Invited speaker. Finding meaning in stage 2 meaningful use. HIMSS Gulf Coast Conference; 2013 Dec 5; Biloxi, MS.


Wallace D. Invited speaker. The human element of surge capacity and resource management: the healthcare approach to effective communication and relationships. 2014 International Crisis & Risk Communication Conference; 2014 Mar 5; Orlando, FL.

Wallace D. Invited speaker. Mass casualty preparedness. 5th Annual Greater Gulf Coast Trauma & Acute Care Surgery Symposium; 2014 Mar 27; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRAMS
The Center for Strategic Health Innovation (CSHI) continues to serve as a leader in innovative healthcare technology applications and solutions. CSHI enjoyed another successful year in our major focus areas: 1) health technology development and deployment, 2) disaster preparedness and response training, 3) applied informatics and healthcare analytics services and 4) technical assistance for meeting Meaningful Use requirements. Dan Roach, MD, Assistant Dean for Medical Informatics Education for the University of South Alabama serves as the acting Director for CSHI and actively promotes collaboration on projects with the USA School of Computing, USA Department of Family Practice, the USA College of Nursing, USA OB/GYN Department, the National Academy for State Health Policy, the University of Louisiana Lafayette and the University of Alabama at Birmingham and the Office of the National Coordinator (ONC). CSHI is continuing our collaboration with the USA Department of OB/GYN on the awarded Strong Start for Mothers and Newborns Initiative.

ALABAMA INCIDENT MANAGEMENT SYSTEM (AIMS)
AIMS is the information management software tool for the State of Alabama designed to capture healthcare system situational awareness on both a daily basis and during disasters. Critical data such as available beds, supplies, staffing, and equipment is entered into a database at each participating healthcare facility and then displayed in a dashboard view for all to see, both healthcare facilities and local or regional Emergency Operations Centers (EOC), to better make emergent decisions. Healthcare Emergency Coalitions have been established in each of the 11 Public Health areas, and AIMS serves as the information tool for emergency response coordination. CSHI estimates there are over 700 AIMS users including Hospitals, Community Health Centers (CHC), Nursing Homes, Assisted Living Facilities, EMS providers, Medical Needs Shelters, Alabama Department of Public Health, Alabama Emergency Management Agency, and other agencies who are active members of the Coalitions. During 2015 we expect this number to grow as the Coalitions expand their membership. Enhancements and upgrades to AIMS have included the development of Application Programming Interface (API) links to other services and tools, as well as development of export and import data API for automated data-population of AIMS. Compatibility with the HAvBED system was maintained and kept up to date. AIMS testing was conducted for ASPR/ADPH (Office of the Assistant Secretary for Preparedness and Response/Alabama Department of Public Health) compliance issues and ten AIMS exercises were held which included hospitals, CHCs, Nursing Homes and Public Health. AIMS is currently undergoing a rewrite and upgrade of code to greatly improve communications, usability and accessibility with mobile devices. Another focus of the AIMS revision has been to improve communications between facilities by making AIMS more healthcare facility centric and less state agency centric. The goal is to increase 2-way communication between facilities during emergency situations.

ADVANCED REGIONAL RESPONSE TRAINING CENTER (ARRTC)
Now in its eleventh year, ARRTC is regional response training designed to teach effective collaborative healthcare community response to all disasters, natural or man-made. This program is made possible by a grant from the Alabama Department of Public Health, Center for Emergency Preparedness through a cooperative agreement from
ASPR. This year, CSHI offered training on-site in Mobile (Basic Course, Disaster Preparedness Clinical Simulation Course and Healthcare Emergency Preparedness Professional Certificate Course) and throughout the State at requested healthcare facilities (Road Show Courses). **ARRTC Basic** is a two-day course designed to provide core disaster response training. Sessions were scheduled by ADPH Emergency Preparedness Areas, fostering interaction with regional response partners. This year, as a subset of the Basic Course, two Administrative sessions were presented for Chief and Administrator level personnel charged with emergency response leadership for their organizations. This course featured nationally recognized speakers who shared their experience and expertise on crisis risk management, leadership and decision making during emergency response.

The **Disaster Preparedness Clinical Simulation** Course is a one-day interactive training session in the form of simulated clinical scenarios for clinicians charged with disaster response in their organizations. The **Road Show** Courses are a one-day session which takes healthcare preparedness training to healthcare facilities across the state, thereby allowing participation by more staff, and inviting the participation of regional neighbors/response partners for the purpose of establishing and enhancing a common knowledge of the basics of disaster response for healthcare facilities. Road Show course content was designed by each facility from a menu of topics to reflect the specific needs of each facility/area. Including all three types of sessions, a combined total of 54 sessions were presented to 1,877 participants which included representatives from public health, hospitals, nursing homes, community health centers (CHCs), and emergency management and response agencies. Attendee evaluation scores were consistently high, with 95% rating the program as “Excellent” or “Good.”

The **Healthcare Emergency Preparedness Professional Certificate Course (HEPP)** was added during the year. The HEPP program is an online course consisting of more than 200 hours of instructional material and interactive assignments. The HEPP course is designed to provide students the opportunity to gain the knowledge, skills and capability to prepare and manage a healthcare facility’s Emergency Management Program. The initial class has 15 students enrolled and will end in the spring of 2015. It is one of only a few advanced educational programs available throughout the country that is focused on developing Healthcare Emergency Preparedness Professionals.

**MEDICAL INFORMATICS AND HEALTHCARE TECHNOLOGY APPLICATIONS:** CSHI continues to use innovative health technologies to improve the care, quality, cost and access to healthcare within Alabama and beyond. **RMEDE™**, our in house developed Realtime Medical Electronic Data Exchange, continues as our platform from which to develop diverse projects tailored to our client’s individual needs. **RMEDE™** is a secure web-based life-state management system that includes our Medicaid programs: 1) in-home biomonitoring of patients with chronic disease; 2) Patient Care Networks of AL case management; 3) State asthma registry; 4) data and reporting for the maternity program and 5) an interventional informatics reporting system. CSHI currently manages 1.1 million Medicaid patient records. Approximately 804 Medicaid Pt 1st patients are participating in our in-home biomonitoring project, a 28% increase from last year. The Biomonitoring Program is a unique partnership between Medicaid, The Alabama Department of Public Health (ADPH) and USA’s CSHI. This program receives patient referrals from their primary medical provider (PMP) with the chronic disease
diagnoses’ of hypertension, diabetes and congestive heart failure for in home monitoring. Patients are monitored for significant changes by using an innovative Interactive Voice Response (IVR) system. Patients are instructed to dial-in their key physiologic parameters, and an ADPH Biomonitoring Nurse is assigned to monitor the results and submit reports to the patient’s provider. CSHI also continued its’ partnership with the Mediceid Maternity Program in their quest for Better Birth Outcomes and lower Infant Mortality rates. RMEDE™ is used to develop a data collection system with reporting capabilities utilizing recipient information gathered from enrollment activities to evaluate compliance with accepted national standards of practice. RMEDE™ provides Medicaid and their contractors the ability to enter and view the data online. Data is utilized by Medicaid to determine benchmarks for compliance and comparisons.

We have continued our partnership with Alabama Medicaid to support the Patient Care Networks of Alabama (PCNA) project. PCNA is a primary care case management program which establishes regional networks of care or a “medical neighborhood” which is designed to improve the delivery of health care services to Medicaid recipients, especially those recipients with complex medical conditions. 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. In addition, we have developed a Primary Medical Provider (PMP) Portal Component. The PMP portal is a web based health information system developed to support Alabama Medicaid's Patient 1st Primary Medical Providers (PMPs). Using the system, PMPs are able to track their patient’s progress by examining reports created from claims data. The PMPs can use these reports to make decisions regarding improving the quality of care of patients while reducing the cost of care. There are now four active PCNA areas in the state.

CSHI is contracted in a second endeavor with the Alabama Chapter of the American Academy of Pediatrics (AAP). CSHI will work with the AL Chapter of AAP and the University of Alabama at Birmingham’s (UAB) Alabama Child Health Improvement Alliance (ACHIA) in the design and development of data analytics for current and future ACHIA quality improvement projects. In the first phase, USA will design and develop a web portal for the “Healthy Active Living: An Obesity Prevention and Treatment Quality Improvement Project”.

CSHI continues to operate the Alabama Regional Extension Center (ALREC), which is the result of a $9.0 Million grant awarded by the Office of the National Coordinator for the Health Information Technology (ONC). ALREC’s mission is to provide educational outreach to small and medium-sized Priority Primary Care Providers (PPCPs) to select, implement, and become meaningful users of certified electronic health record systems. The four year grant ended, 4/5/2014, however, CHSI was awarded a one year no cost extension to continue its exemplary work with PPCPs. Currently, 77% of ALREC’s 1304 providers have met Meaningful Use requirements and they are working diligently to reach 100% of their goal. In addition to the ONC grant activity, ALREC has implemented a Paid Members sustainability service line, whereby PPCPs and Specialty
groups, pay a fee and ALREC works with them to achieve Stage 1 and/or Stage 2 meaningful use status. Over the past year, ALREC has generated over $380,000 in revenue from this venture.
2013-2014
Summary of Scholarly Activities
USA 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. Update: sickle cell disease management. Gulf States Chapter of the Society of Hospital Medicine 10th Annual Conference; 2014 Jun 13; Point Clear, AL.

Haynes J. Invited speaker. Hospital management of sickle cell pain crisis in adults. 13th Annual Sickle Cell Regional Conference; 2014 May 3; Mobile, AL.

Haynes J. Invited speaker. Pathology of the disease and sickle cell trait in athletes. Sickle Cell Disease Association Educator Certification Program; 2014 Mar 24; Mobile, AL.

Haynes J. Invited speaker. PCP guide to prevention & acute care management of sickle cell disease. Family Medicine Residency Program; 2013 Nov 12; Mobile, AL.

Haynes J. Invited speaker. Acute chest syndrome in sickle cell disease. Physician Assistant Studies Program; 2013 Oct 21; Mobile, AL.

Imran H. Invited speaker. Management of sickle cell disease. Sickle Cell Disease Association Educator Certification Program; 2014 Mar 25; Mobile, AL.

Siddiqui AH. Invited speaker. Introduction to genetics of hemoglobin and thalassemia. Sickle Cell Disease Association Educator Certification Program; 2014 Mar 26; Mobile, AL.

Wilson F. Invited speaker/video conference. Current considerations in the management of patients with sickle cell disease. The University of Arkansas for Medical Science; 2014 May 22; Little Rock, AR.


V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: America’s Top Doctors; Observational Study Monitoring Board, Chair, 2RO1HLO79937-05 Asthma and Nocturnal Hypoxemia in Sickle Cell Anemia (SAC-II) PI-Michael DeBaun. Voting Member, Association of American Medical Colleges (AAMC) - Group on Diversity and Inclusion (GDI)

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

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

Research: The Center is involved in 1 pharmaceutical sponsored research trial, “A Phase II, Multicenter, Randomized, Placebo-Controlled, Double-Blind, 12-Month Study to Assess Safety and Efficacy of SelG1 With or Without Hydroxyurea Therapy in Sickle Cell Disease Patients with Sickle Cell-Related Pain Crises.” The Center recently completed, “A Randomized, Placebo-controlled, Phase II Study of HQK-1001 (butyrate analog/hemoglobin F inducer) in Sickle Cell Disease.” Dr. Hamayun Imran is collaborating investigator and local PI for the TWITCH study at the University of South Alabama. This NIH sponsored study is led by St. Jude Children's Research Hospital. It is a national clinical trial for children with sickle cell disease on chronic transfusion therapy for critical TCD velocity.
Clinical Operations: The 2013-2014 academic year marks the close of the 15th year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. This clinic now serves over 222 clients. The pediatric clinic provides services to over 300 clients. The primary objectives of these clinics are 1) to serve as a positive educational experience for primary care residents in the Departments of Medicine, Family Medicine, and Pediatric Medicine at the University of South Alabama; and 2) to be a resource for practicing physicians in the University and private community. The adult clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner, and Ms. Adrienne Petite, Case Manager. The pediatric clinic is staffed by Drs. Felicia Wilson, Hamayun Imran, Hafeez Siddiqui, Ms. Ardie Pack-Mabien, Nurse Practitioner, and Ms. Adrienne Petite, Case Manager. Internal Medicine, Pediatric Medicine, and Family Medicine residents rotate on a monthly basis through the Sickle Cell Clinics.

Ms. Pack-Mabien, and Ms. Petite continue to support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services. The Pediatric to Adult Care Transition Program (PACT) is now in its third year.

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

Education: The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community and continues to support the Counselor /Educator Certification Program, which takes place at the Sickle Cell Disease Association of America, Mobile Chapter. The USA Comprehensive Sickle Cell Center has sponsored a clinical based conference on practical issues involving sickle hemoglobinopathies for the last 13 years. This conference held Saturday May 3, 2014 was entitled, “Practical Issues in Sickle Cell Disease XIII: The Many Faces of Pain.” The conference featured Dr. Seddon Savage as keynote speaker and recipient of the Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Endowed Lectureship Award. Dr. Savage’s topic was, “What To Do When Pain and Addiction CoExist.” She is the Director of the Dartmouth Center on Addiction Recovery and Education (DCARE) & Associate Professor of Anesthesiology at Dartmouth College. Meredith Jernigan, PharmD; Clinical Assistant Professor, Department of Pharmacotherapy and Translational Research at the University of Florida spoke on, “Utilization of Patient Controlled Analgesia For Sickle Cell Acute Painful Episodes.” Dr. Severin Grenoble, Assistant Professor of Psychiatry at the University of South Alabama/Altopointe spoke on the psychological aspects of chronic pain presenting, “50 Shades of Pain.” Dr. Paula McPhail, Emergency Room Physician, University of South Alabama Children’s and Women’s Hospital discussed, “Emergency Room Management of Pain Crisis in the Pediatric Patient, Now and In the Future,” and Dr. Frank Pettyjohn, Professor and Chair, Emergency Medicine, University of South Alabama Medical Center addressed, “Sickle Cell Patients in the Emergency Department – Difficult Pain Management.” Dr. Johnson Haynes, Jr., Professor and Director, University of South Alabama Comprehensive Sickle Cell Center focused on, “Hospital Management of Sickle Cell Pain Crisis in Adults,” and Dr. Hamayun Imran, Associate Professor and Medical Director, University of South Alabama Division of Pediatrics, Hematology/Oncology discussed, “Inpatient Management of Acute Sickle Cell Vaso-
occlusive Episodes in Children.” The Dr. Cecil L. Parker Jr. Sickle Cell Distinguished Lectureship Endowment is now in its 6th year of operation and was established to provide funding to support the education agenda in perpetuity of the Sickle Cell Center.

As we go forward, we plan to continue the clinical operations with the same drive and integrity as we have in current years. We will continue to seek the grant support necessary to continue all clinical and research activities as well as continue requesting the necessary financial support currently made available by the University of South Alabama College of Medicine.

Other Activities: Dr. Haynes continues to serve as Alabama Sickle Cell Oversight Regulatory Commissioner and recently elected Vice President of the Commission. The Center’s newsletter, “Sickle Cell Today” is distributed across the State of Alabama to clients, client’s families, administrators, community sickle cell foundations, physicians and legislators in April and September of each year. Dr. Haynes is now in his third year as Assistant Dean of Diversity and Inclusion in the USA College of Medicine. Drs. H. Imran, F. Wilson and J. Haynes were honored with the 2014, “Red Sash Faculty Award” during Honors Convocation.
Summary of Activities 2013-2014
Office of Medical Alumni Affairs

The total number of alumni graduates from the College of medicine is 2,401. This number represents 38 graduating classes (1976-2014) and does not include former USAMC housestaff or graduates of the Ph.D. program.

Kit Outlaw, ’92, began his two year term as President of the Medical Alumni Association Board in June 2014 and oversees the Board of Directors meeting which is held four times a year and is comprised of the following members:

Dr. Oscar Almeida, Jr. ’85
Dr. William Blaylock ’89
Dr. Lamar Duffy ’84
Dr. Diana Hashimi ’90
Dr. Johnson Haynes ’80
Dr. Grace Hundley,’04
Dr. Russell Hudgens ’87
Dr. Wanda Kirkpatrick ’78
Dr. Amy Morris ’92
Dr. Christopher Semple ’85
Dr. Maryella Sirmon ’78
Dr. John Todd ’88

Scholarship development, recognition of academic achievement and projects designed to enhance medical education continue to be a primary focus for the organization. The recipient for 2014 Medical Alumni Association Scholar was Sara B. Shields Tarwater who was awarded $10,000. Other scholarship awards include:

Sarah E. Bragg, Les Sockwell Memorial Award ($1,000)
Kyndal Sonnier, Jonathan H. Todd, Medical Alumni Legacy Scholarship ($2,000 each)
Alicia T. Glass, Christian Grinaker Award ($1,000)
Jason Largen, Sid Huggins Family Practice Award ($1,000)
Thomas A. Baker, Class of 1981 Scholarship ($5,000)
Amy N. Boone, Class of 2013 Scholarship ($500)
Ben Cason, Medical Alumni Leadership Award ($500)

The primary program responsible for operating revenue is the Membership Dues and Annual Fund Drive. All alumni activities are funded from this single activity conducted over a four month period (September-December). In 2013, the Medical Alumni Association had 3 categories for dues: $100 per year for graduates, $50 for residents-in-training, and $1,000 for a lifetime membership. In addition, alumni were asked to consider a donation of $100 to the Annual Fund. Including lifetime members, (current and new) with individual contributions, a total of $60,190 was generated by 647 alumni.
The annual Medical Alumni Reunion Weekend was held June 6-7, 2014 at the Perdido Beach Resort in Orange Beach, Alabama. Seven classes recognized their reunion (1979, 1984, 1989, 1994, 1999, 2004, 2009) and six hours of Continuing Medical Education were presented, which included:

Dr. Dan Roach, III, '97, *Medical Informatics Challenges and Opportunities*
Dr. Anthony Martino, *Current Management of Metastatic Brain Cancer and the USA Experience*
Dr. Grace Hundley, '04, *Simulation in Medical Education*
Dr. Anne Schott, '89, *Developing the Cancer Therapies of the Future*
Dr. David Adkinson, '84, *Adventures in Medicine: Practicing in China*
Dr. Edward E. Panacek, '01, *Medical Literature Update Potpourri*

Dr. Glenn L. Wilson, Professor Emeritus (Professor and Chairman of the Department of Cell Biology and Neuroscience), was honored with the 2014 Distinguished Service Award, recognizing his commitment to teaching anatomical sciences and his contributions to the graduate and allied health programs.

Other major activities sponsored by the Medical Alumni Association include: the White Coat Ceremony, the Mobile Chapter Senior Class Reception, Distinguished Medical Alumni Lecture Series, Conversations with the Dean, various donations to student organizations, Skit Night, Review of Systems and the White Caduceus Ball.

In addition, the office maintains a graduate database, electronic newsletter and a Facebook page for USACOM graduates and current students.
2013-2014
DIVISION OF MEDICAL EDUCATION AND STUDENT AFFAIRS

The Division of Medical Education and Student Affairs is responsible for all undergraduate education programs in the College of Medicine. Reorganization of the structure of this office occurred over the past year. Activities in the Division of Medical Education and Student Affairs are accomplished through offices in the Medical Sciences Building and Mastin Building.

Student Affairs

The Medical Association of the State of Alabama once again sponsored Match Day festivities which were held at the Renaissance Riverview Plaza Hotel in downtown Mobile on March 21. The Match results were impressive and included one student who matched in Plastic Surgery at the University of South Florida School of Medicine, one who matched in Otolaryngology at the University of Florida, one student who matched in Ophthalmology, and three students who matched in Neurological Surgery. Students matched in twenty different states and will be going to programs such as Baylor, Cedar-Sinai Medical Center, Cincinnati Children's Hospital, the Cleveland Clinic, University of North Carolina, University of Virginia, and Wake Forest. Eight students matched here at USA.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2013-2014 is outlined below:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Visitors</td>
<td>19</td>
<td>16</td>
<td>24</td>
<td>33</td>
<td>28</td>
</tr>
<tr>
<td>From LCME Schools</td>
<td>10</td>
<td>7</td>
<td>9</td>
<td>17</td>
<td>12</td>
</tr>
<tr>
<td>From Osteopathic Schools</td>
<td>2</td>
<td>5</td>
<td>12</td>
<td>6</td>
<td>7</td>
</tr>
<tr>
<td>From Foreign Schools</td>
<td>7</td>
<td>4</td>
<td>3</td>
<td>10</td>
<td>9</td>
</tr>
<tr>
<td>Completed Paperwork, but Cancelled Visit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From LCME Schools</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>From Osteopathic Schools</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>From Foreign Schools</td>
<td>6</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Disciplines in which Electives were taken</td>
<td>2010-2011</td>
<td>2011-2012</td>
<td>2012-2013</td>
<td>2013-2014</td>
<td></td>
</tr>
<tr>
<td>------------------------------------------</td>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
<td>-----------</td>
<td></td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>4</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Clinical Pharmacology</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Family Medicine</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>8</td>
<td>1</td>
<td>6</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Medical Genetics</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Neurology</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Neurological Surgery</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Orthopedics</td>
<td>5</td>
<td>4</td>
<td>8</td>
<td>15</td>
<td></td>
</tr>
<tr>
<td>Pathology</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Pediatrics</td>
<td>5</td>
<td>2</td>
<td>5</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Psychiatry</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Radiology</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Surgery</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

**Months Electives Taken**

<table>
<thead>
<tr>
<th>Month</th>
<th>2010-2011</th>
<th>2011-2012</th>
<th>2012-2013</th>
<th>2013-2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>1 2</td>
<td>1 0</td>
<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>February</td>
<td>1 0</td>
<td>0 0</td>
<td>0 1</td>
<td>0 0</td>
</tr>
<tr>
<td>March</td>
<td>0 0</td>
<td>0 0</td>
<td>1 2</td>
<td>0 0</td>
</tr>
<tr>
<td>April</td>
<td>0 0</td>
<td>0 0</td>
<td>0 1</td>
<td>0 0</td>
</tr>
<tr>
<td>May</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>June</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
</tr>
<tr>
<td>July</td>
<td>2 0</td>
<td>3 2</td>
<td>2 1</td>
<td>2 1</td>
</tr>
<tr>
<td>August</td>
<td>1 1</td>
<td>4 2</td>
<td>6 1</td>
<td>5 1</td>
</tr>
<tr>
<td>September</td>
<td>3 0</td>
<td>7 0</td>
<td>6 3</td>
<td>5 3</td>
</tr>
<tr>
<td>October</td>
<td>2 1</td>
<td>5 0</td>
<td>6 5</td>
<td>4 1</td>
</tr>
<tr>
<td>November</td>
<td>3 0</td>
<td>1 1</td>
<td>3 0</td>
<td>1 3</td>
</tr>
<tr>
<td>December</td>
<td>0 0</td>
<td>0 0</td>
<td>0 0</td>
<td>2 2</td>
</tr>
</tbody>
</table>

Letters of evaluation (Dean’s Letters) were written for each of the 63 seniors who graduated in May, 2014. Students applied to 2481 residency programs through the AAMC Electronic Residency Application Service (ERAS).
Sixty-two (62) of the sixty-three (63) students matched for residency positions. Sixty (60) of the May graduates used the NRMP as their primary means of obtaining residency and three (3) graduates participated in a specialty match. One (1) student secured a residency training position in the “scramble” that followed the match.

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Graduates</th>
<th>Match Utilized</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>NRMP</td>
<td>Non-NRMP</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>66</td>
<td>62</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>69</td>
<td>67</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>78</td>
<td>74</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>73</td>
<td>68</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>63</td>
<td>60</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>
## University of South Alabama Seniors
### Residencies Received by Discipline

<table>
<thead>
<tr>
<th>Discipline</th>
<th>Class of 2010</th>
<th>Class of 2011</th>
<th>Class of 2012</th>
<th>Class of 2013</th>
<th>Class of 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRIMARY CARE:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>15</td>
<td>23%</td>
<td>14</td>
<td>21</td>
<td>12</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>1</td>
<td>1%</td>
<td>9</td>
<td>7</td>
<td>4</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>8</td>
<td>12%</td>
<td>6</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Med/Peds</td>
<td>4</td>
<td>6%</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Anesthesiology</td>
<td>3</td>
<td>4%</td>
<td>3</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Child Neurology</td>
<td>1</td>
<td>0%</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Dermatology</td>
<td>0</td>
<td>1%</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>1</td>
<td>5%</td>
<td>6</td>
<td>1</td>
<td>4</td>
</tr>
<tr>
<td>Int. Med./Dermatology</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Int. Med/Emer. Med.</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Neurology</td>
<td>3</td>
<td>3%</td>
<td>3</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Neurological Surgery</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
<td>3</td>
</tr>
<tr>
<td>OB/Gyn</td>
<td>4</td>
<td>5%</td>
<td>7</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Ophthalmology</td>
<td>1</td>
<td>0%</td>
<td>0</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>3</td>
<td>7%</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Otolaryngology (ENT)</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Pathology</td>
<td>5</td>
<td>0%</td>
<td>3</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Physical Medicine &amp; Rehabilitation</td>
<td>0</td>
<td>1%</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>3</td>
<td>4%</td>
<td>4</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>Radiation Oncology</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Radiology</td>
<td>6</td>
<td>3%</td>
<td>6</td>
<td>1</td>
<td>6</td>
</tr>
<tr>
<td>Surgery – General</td>
<td>4</td>
<td>6%</td>
<td>6</td>
<td>4</td>
<td>6</td>
</tr>
<tr>
<td>Surgery - Plastics</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Surgery – Preliminary</td>
<td>4</td>
<td>0%</td>
<td>0</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Surgery – Thoracic</td>
<td>0</td>
<td>0%</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Transitional</td>
<td>0</td>
<td>2%</td>
<td>7</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Urology</td>
<td>0</td>
<td>0%</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
</tbody>
</table>
University of South Alabama Seniors
Residencies Received by State

<table>
<thead>
<tr>
<th>Year</th>
<th>Alabama</th>
<th>USA Hospitals (Mobile)</th>
<th>Out-of-State</th>
<th>Number of Different States</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td>33</td>
<td>23</td>
<td>33</td>
<td>14</td>
</tr>
<tr>
<td>2011</td>
<td>28</td>
<td>16</td>
<td>42</td>
<td>19</td>
</tr>
<tr>
<td>2012</td>
<td>24</td>
<td>15</td>
<td>53</td>
<td>18</td>
</tr>
<tr>
<td>2013</td>
<td>28</td>
<td>14</td>
<td>43</td>
<td>25</td>
</tr>
<tr>
<td>2014</td>
<td>12</td>
<td>8</td>
<td>51</td>
<td>20</td>
</tr>
</tbody>
</table>

Sixty-three seniors received the Doctor of Medicine degree at Commencement on May 10, 2014. On the evening of May 9, the College held its thirty-ninth Honors Convocation, which took place in the Mitchell Center. Dr. J. Allan Tucker addressed the class and J. D. Chesser responded for the graduates. Prior to honoring the graduates, the following awards were presented:

Dean's Award – Benjamin Mitchell Motz
Merck Award – Ellen Michelle Mitchell and Thomas Varnon Scarritt, Jr.
Glasgow-Rubin Achievement Citations – Sarah Elizabeth Bragg, Kasey Sarah Gardner, Alicia Taylor Glass, and Ellen Michelle Mitchell
Leonard Tow Humanism in Medicine Award – Alicia Taylor Glass and Benjamin Estrada, M.D.

Medical Alumni Leadership Award – Benton Michael Cason
Medical Assurance Award – Robert Lee Smola, Jr.
Community Service Award – Jamie Michelle Hennigan and Davida Elizabeth Yarbrough
SNMA Leadership Award – Davida Elizabeth Yarbrough
Outstanding Student in the Anatomical Sciences – Benjamin Mitchell Motz
Charles M. Baugh Award in Biochemistry – Benjamin Mitchell Motz
William A. Gardner, Jr. Pathology Award – Kasey Sarah Gardner and Charles Newton Newman
Charles W. Urschel Achievement Award in Physiology – Sarah Elizabeth Bragg and William Joseph Reschly

Pharmacology Achievement Award – Ellen Michelle Mitchell
Microbiology and Immunology Achievement Award – Sarah Elizabeth Bragg
Neuroscience Achievement Award – Davis Gates Taylor
Hollis J. Wiseman Award for Excellence in Pediatrics – Sarah Elizabeth Bragg
Samuel Eichold Award – Cara Meghan Stalzer
Lewis Anderson Medical Student Achievement Award – August Edward Funk
John W. Donald Memorial Award in Surgery – Benjamin Mitchell Motz
H. C. Mullins, M.D. Award – Jason Wayne Largen
Obstetrics/Gynecology Award – Alicia Taylor Glass
Excellence in Emergency Medicine Award – Zachary Christian Simms
American Academy of Neurology (AAN) Award – James Edward Towner
Excellence in Psychiatry Award – Laura Kyser Romer
## Grade Distribution 2013 - 2014 Academic Year

### Freshman Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Honors</th>
<th>Pass</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundations of Human Health</td>
<td>8</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Hematology and Host Defense</td>
<td>12</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>Cardiovascular</td>
<td>8</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Respiratory</td>
<td>8</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Renal</td>
<td>7</td>
<td>65</td>
<td>1</td>
</tr>
<tr>
<td>OSCE M1 - Fall</td>
<td>69</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>OSCE M1 - Spring</td>
<td>44</td>
<td>29</td>
<td></td>
</tr>
</tbody>
</table>

### Sophomore Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Honors</th>
<th>Pass</th>
<th>Fail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Digestive System and Nutrition</td>
<td>11</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>Endocrine and Reproductive Systems</td>
<td>25</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>Musculoskeletal System</td>
<td>10</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Neuroscience and Behavior</td>
<td>13</td>
<td>61</td>
<td></td>
</tr>
<tr>
<td>Integrated Case Studies</td>
<td>39</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>OSCE M1 - Fall</td>
<td>40</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>OSCE M1 - Spring</td>
<td>2</td>
<td>73</td>
<td>1</td>
</tr>
</tbody>
</table>

### Junior Clerkships

<table>
<thead>
<tr>
<th>Clerkship</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family Medicine</td>
<td>33</td>
<td>38</td>
<td>2</td>
<td></td>
<td></td>
<td>3.42</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>34</td>
<td>37</td>
<td></td>
<td></td>
<td></td>
<td>3.48</td>
</tr>
<tr>
<td>Neurology</td>
<td>47</td>
<td>19</td>
<td></td>
<td></td>
<td></td>
<td>3.71</td>
</tr>
<tr>
<td>OB/GYN</td>
<td>29</td>
<td>38</td>
<td>4</td>
<td></td>
<td></td>
<td>3.35</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>27</td>
<td>44</td>
<td></td>
<td></td>
<td></td>
<td>3.38</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>42</td>
<td>30</td>
<td>1</td>
<td></td>
<td></td>
<td>3.56</td>
</tr>
<tr>
<td>General Surgery</td>
<td>55</td>
<td>16</td>
<td>1</td>
<td></td>
<td></td>
<td>3.75</td>
</tr>
</tbody>
</table>

**Average GPA: 3.52**

### Academic Progress of Medical Students

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

<table>
<thead>
<tr>
<th>Category</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Students in Class</td>
<td>75</td>
<td>76</td>
<td>74</td>
<td>75</td>
<td>77</td>
</tr>
<tr>
<td>Graduates</td>
<td>66</td>
<td>69</td>
<td>78</td>
<td>73</td>
<td>63</td>
</tr>
<tr>
<td>True Attrition (will not receive M.D. in any year)</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>2009-10</td>
<td>2010-11</td>
<td>2011-12</td>
<td>2012-13</td>
<td>2013-14</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
<td>---------</td>
</tr>
<tr>
<td>Dismissed</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sophomores</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Juniors</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Seniors</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Placed on Leaves of Absence</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(LOA)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sophomores</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>9</td>
<td>6</td>
<td>11</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>Transferred to Another Medical School</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Withdrew</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Admitted with Advanced Standing or Re-entered from Graduate School</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Deceased</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Repeated All or Part of the Year</td>
<td>2</td>
<td>8</td>
<td>11</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>Enrolled on a Decelerated Schedule</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Minority Students (Black, Native American, Hispanic)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>24</td>
<td>21</td>
<td>18</td>
<td>17</td>
<td>19</td>
</tr>
<tr>
<td>Freshmen</td>
<td>3</td>
<td>7</td>
<td>4</td>
<td>4</td>
<td>7</td>
</tr>
<tr>
<td>All Other Classes</td>
<td>21</td>
<td>14</td>
<td>14</td>
<td>13</td>
<td>12</td>
</tr>
</tbody>
</table>

**United States Medical Licensure Examination (USMLE) Step 1 First Time Takers**

<table>
<thead>
<tr>
<th></th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>72</td>
<td>72</td>
<td>75</td>
<td>69</td>
<td>74</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>221</td>
<td>222</td>
<td>224</td>
<td>227</td>
<td>228</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>219</td>
<td>220</td>
<td>218</td>
<td>226</td>
<td>224</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>7%</td>
<td>9%</td>
<td>6%</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>8%</td>
<td>4%</td>
<td>8%</td>
<td>3%</td>
<td>7%</td>
</tr>
</tbody>
</table>

United States Medical Licensure Exam (USMLE) Step 2
First Time Takers

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>66</td>
<td>71</td>
<td>77</td>
<td>73</td>
<td>65</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>230</td>
<td>233</td>
<td>237</td>
<td>238</td>
<td>240</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>225</td>
<td>236</td>
<td>234</td>
<td>233</td>
<td>242</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>3%</td>
<td>3%</td>
<td>2%</td>
<td>2%</td>
<td>3%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>0</td>
<td>3%</td>
<td>1%</td>
<td>5%</td>
<td>3%</td>
</tr>
</tbody>
</table>

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

United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th></th>
<th>Class of 2007</th>
<th>Class of 2008</th>
<th>Class of 2009</th>
<th>Class of 2010</th>
<th>Class of 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Percentage Passing</td>
<td>95</td>
<td>95</td>
<td>96</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>95</td>
<td>95</td>
<td>98</td>
<td>92</td>
<td>96</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>63 (a)</td>
<td>65 (b)</td>
<td>61 (c)</td>
<td>65 (d)</td>
<td>68 (e)</td>
</tr>
</tbody>
</table>

(a) 63/63 students had taken Step 3 as of 12/11
(b) 65/65 students had taken Step 3 as of 12/11
(c) 62/63 students had taken Step 3 as of 6/14
(d) 65/66 students had taken Step 3 as of 6/14
(e) 68/69 students had taken Step 3 as of 6/14

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 2013 graduates. A total of 40 responses were received out of 71 requests. Below is a summary of the responses to the four major areas that were assessed. NOTE: One survey form was returned incomplete; therefore, it was not included in the totals below.
<table>
<thead>
<tr>
<th></th>
<th>Class of 2010</th>
<th>Class of 2011</th>
<th>Class of 2012</th>
<th>Class of 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medical Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>16%</td>
<td>31%</td>
<td>23%</td>
<td>13%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>40%</td>
<td>43%</td>
<td>29%</td>
<td>35%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>31%</td>
<td>20%</td>
<td>38%</td>
<td>40%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>11%</td>
<td>2%</td>
<td>10%</td>
<td>10%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>4%</td>
<td>0</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Data Collection</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>22%</td>
<td>30%</td>
<td>26%</td>
<td>13%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>36%</td>
<td>44%</td>
<td>42%</td>
<td>48%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>34%</td>
<td>18%</td>
<td>29%</td>
<td>35%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>6%</td>
<td>6%</td>
<td>3%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>2%</td>
<td>0</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Clinical Judgment and Skills</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>17%</td>
<td>31%</td>
<td>20%</td>
<td>15%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>40%</td>
<td>43%</td>
<td>43%</td>
<td>40%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>37%</td>
<td>22%</td>
<td>34%</td>
<td>38%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>4%</td>
<td>2%</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>2%</td>
<td>0</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Professional Attitudes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>37%</td>
<td>58%</td>
<td>47%</td>
<td>43%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>30%</td>
<td>28%</td>
<td>29%</td>
<td>27%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>27%</td>
<td>8%</td>
<td>17%</td>
<td>23%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>4%</td>
<td>4%</td>
<td>7%</td>
<td>5%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>2%</td>
<td>0</td>
<td>2%</td>
</tr>
</tbody>
</table>

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

During the 2013-2014 academic year, the Curriculum Committee met twice each month. Many different initiatives were approved and implemented.

Management of the Overall Curriculum

The curriculum committee provided management and oversight of all aspects of vertical integration in M1 and M2 and M3. The committee completed the post-implementation review of the first iteration of the M1 and M2 curriculum and began the post-implementation review of the second iteration of M1 courses. To enhance and maintain continuous quality improvement and evaluation efforts in M1 and M2 the module directors subcommittee was created.

Significant effort was placed in the vertical integration of curricular objectives across the first three years of education. The renewed curriculum for each of the 7 clerkships was reviewed in detail to assure that objectives and content were logically integrated with those in M1 and M2.

Anticipating the implementation of the new competency based curriculum in M3 beginning July 2014, integration of cognitive objectives between M1, M2 and M3 was reviewed to assure a coordinated and logical inclusion of basic science content during M3.

Longitudinal activities reviewed and approved by the committee included the implementation of patient safety, quality improvement and interprofessional education curriculum into the Longitudinal Experience in Ambulatory Practice (LEAP) and the clerkships in which primary care is included. In addition, significant enhancements to the longitudinal Informatics curriculum were also reviewed and approved.

The Curriculum Committee provided oversight for the design and implementation of active learning exercises executed in all modules and clerkships. Additional educational methods and policies aimed to facilitate active learning, self-directed learning and vertical integration of basic and clinical science were reviewed, approved and implemented. Furthermore, the Curriculum Committee moved to enhance vertical integration by removing the former ICS course and inserting its objectives in a coordinated and logical sequence across the M1 and M2 courses.

In coordination with the Division of Medical Education and utilizing E*value, mapping of the competency-based curriculum was completed. This included mapping of the College of Medicine Objectives to the AAMC’s Physician Competence Reference Set (PCRS). This will allow the College of Medicine to participate in the AAMC’s Curriculum Inventory and Reports System and will also be important in our efforts to comply with future accreditation data reporting. In addition, the mapping database will help the Committee as a tool to allow monitoring and management of curriculum integration.

A QA/QI program to proactively evaluate the educational program's compliance and enhancement based on LCME standards was implemented during the fall of 2013 and is ongoing. This program is expected to not only contribute to our compliance efforts but also to play an important role in continuous quality improvement of curriculum design. As part of the QA/QI program an electronic manual containing the Policies and Procedures of the Curriculum Committee has been developed and
is available via Sakai. Newly approved policies included in this manual include the selection and oversight of teaching faculty and the policy on Curriculum Committee notification and approval of course modifications.

Clerkship Initiatives
The renewed M3 curriculum has been fully implemented and will undergo evaluation by the Curriculum Committee during the 2014-2015 academic year. The renewed curriculum in M3 included significant standardization in the format of content delivery across clerkships as well as in the forms of assessment utilized. The curriculum in all of the clerkships is now linked to relevant basic science content specific for each clerkship. At the same time, new curriculum objectives related to system-based practice, patient safety, and quality improvement in health care are being satisfied across clerkships. The implementation of the new M3 curriculum also involves more significant exposure of students to Electronic Health Records.

A competency-based evaluation form linked to the College of Medicine competency map is now being used to assess students in each of their clinical rotations. This form has been designed utilizing the milestone approach and is consistent with the format utilized in graduate medical education. Faculty development on curriculum redesign and new assessment methods in M3 is ongoing and has been provided across clinical departments.

The clerkship directors subcommittee continues to work in horizontal integration of themes across clerkships and began the development of Entrustable Professional Activities (EPAs) based on the AAMC’s suggested EPAs.

In order to facilitate didactic activities in M3 infrastructure modifications were performed which included the development of a physical space area suitable for active learning at the Mastin building and the addition of educational technology at USACWH.

Competency Coaching Program
The Curriculum Committee provided oversight of the competency coaching program which has been fully implemented in M1 and M2. All of the M1 and M2 students met periodically with their assigned faculty coaches to review their individual progress. During M3 the newly designed form of assessment described before will also be a continuation of the M1 and M2 related efforts.

Fourth Year Initiatives
The Transition into Residency and Clinical Pharmacology courses were successfully implemented. Several new fourth year courses were approved including a Gynecological Surgery elective, Obstetrics and Gynecology Oncology elective and Colorectal Surgery Acting Internship. During the 2014-2015 academic year the Curriculum Committee will focus on additional development of the Fourth Year Curriculum.

Developments in the Assessment and Evaluation Program
The Assessment and Evaluation Subcommittee met monthly to formulate, revise and review course policies and performance, and make recommendations to the full curriculum Committee. In 2013-2014, the subcommittee assumed from the full committee the responsibility for conducting the
primary performance reviews for pre-clerkship modules. The reviews incorporated compiled student evaluations, module director reports and administrative reports into a condensed set of strengths and needed improvements for approval of the full committee.

Centralized Management of Evaluations
The Division of Medical Education will assume the comprehensive management of the College’s evaluation system from the University in 2014-2015. To prepare for the migration of evaluations into the Colleges E*Value system, evaluations submitted by and of students across the freshmen, sophomore and junior years were revised at the conclusion of the academic year.

First STEP1 Results for the Revised Pre-clerkship Curriculum
The integrated, organ-based curriculum was launched in the 2012-2013 academic year for the graduating class of 2016. These students completed USMLE STEP1 in June. The results yielded a pass rate of 99% and mean score of 231. This is the highest score recorded by USA students since the NBME adopted its current scoring system in 1991 and the converse of national trending toward lower scores for many schools in the early stages following curriculum revision.

Comprehensive Program Review of the Pre-clerkship Curriculum
In accordance with the College’s action plan submitted to the LCME, a comprehensive performance report on the first two completed years of the revised curriculum was presented at the annual curriculum retreat in July. Compiled student evaluation data, module performance data, and national outcome measures of student performance were reviewed, in addition to recommendations submitted by Student Committee leadership of the graduating Classes of 2016 and 2017. Performance measures for customized NBME assessments and analysis of student evaluations were emphasized. To address the recommendations of the Module Directors’ Subcommittee in response to this report, a reformulation of module grading scheme and modification of the self-directed learning component of each module was endorsed for review and subsequent approval of the full Curriculum Committee.

Standardized Evaluations and Grading Across Clerkships
To address program inconsistencies across the clerkships, the Clerkship Directors’ Subcommittee and Assessment and Evaluation Subcommittee developed a single set of evaluations (mid-course report, final clerkship report, evaluation of residents and attending physicians) to improve and standardize feedback. A uniform, tripartite grading formulation (40% shelf exam, 40% clinical assessment, 20% active learning) has been adopted in five of seven clerkships to date.

Conversion of the Clerkship Grading System to Honors-Pass-Fail
The Subcommittee approved an extension of the pre-clerkship module grading system to clerkships, effective in 2014-2015.

STEP2 CK Results
The class mean for the graduating class of 2014 (242) exceeded the national average (240). This was the first group of students exposed to significant active learning strategies in several of the pre-clerkship and clerkship courses.
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The officers for 2013-2014 were President – R. Frank Bumpus, IV; Vice President – Dale Shamberger; and Secretary/Treasurer – Chris Mills. The Faculty Advisors were Dr. T. J. Hundley, Dr. Anthony Gard, Dr. Kelly Roveda, and Dr. Susan LeDoux.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) Meetings confirmed to change to Wednesdays starting in September, 2013, in order to accommodate the schedules of M1s and M2s.

2) M3 students (Class of 2015) responded to a Step 1 survey. Material about Step 1 preparation strategies, advice, etc. was presented to M2 Class of 2016 by panel of M3 students in October, 2013.

3) The Interdisciplinary Student Run Wellness Clinic was established with the help of Dr. LeDoux, Sarita Wagle, and Sarah Boyd (M2 Class of 2016), and other members of colleges in Allied Health, Nursing and the College of Medicine. The clinic opened in March of 2014 at 15 Place in downtown Mobile, serving homeless patients.

4) Met with Andrea Wright, Technology & Information Resources librarian at the University of South Alabama Biomedical Library, about changing the layout of the library website to make it more user friendly for students of the COM. Feedback was given and the redesign was very well received.

5) Discussed with Dr. LeDoux and the College of Medicine Alumni Affairs Office about a redesign of the white coats. White coats now read student’s name, USACOM Student Physician above the pocket.

6) The Student Assembly approved a check of $75 for the Gold Humanism Solidarity Day fundraiser in February, 2014.

7) The Student Assembly worked on getting a collection of Match results put in electronic form for current students to access.

8) Dr. LeDoux organized the renovation of the existing Mastin Building call rooms. The call rooms are being turned into 4 call rooms in the back with new beds and furniture. In the front of the call room area will be 2 individual student rooms and 4 rooms designed for group study with a table and chairs. Room 207 of the Mastin Building is being renovated into an active learning center.

9) Gumbo Chili Cook Off was postponed until Fall, 2014, in order to get more support for the event.
10) The Halloween party was held on October 25, 2013, at O’Daly’s.

11) The Christmas party was held on December 13, 2013, at Studio 5’4”.

12) Match Day was held on March 21, 2014, at the Marriott Riverview Hotel.

13) The Aesclepiian Ball was held on March 28, 2014, at the Center for Living Arts in downtown Mobile.

14) Skit Night was held on April 25, 2014, at the Battlehouse Ballroom in downtown Mobile.

15) Honors Convocation was held on May 8, 2014, and graduation on May 9, 2014, both at the Mitchell Center.

16) Student Assembly officers elected for 2014-2015: Bryn Culpepper – President; Kyndal Sonnier – Vice President; and Chris Cordes – Secretary/Treasurer.
### OFFICE OF FINANCIAL AID

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Financial Aid</td>
<td>$9,758,827</td>
<td>$10,505,628</td>
<td>$11,440,138</td>
<td>$10,740,663</td>
<td>$10,141,055</td>
</tr>
<tr>
<td>Students on Aid</td>
<td>264</td>
<td>273</td>
<td>277</td>
<td>252</td>
<td>248</td>
</tr>
<tr>
<td><strong>Loans</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perkins</td>
<td>0</td>
<td>0</td>
<td>741,272</td>
<td>627,811</td>
<td>558,000</td>
</tr>
<tr>
<td>Direct Subsidized</td>
<td>1,962,148</td>
<td>2,024,937</td>
<td>2,075,554</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Direct Unsubsidized</td>
<td>6,245,358</td>
<td>6,928,397</td>
<td>7,170,930</td>
<td>8,572,896</td>
<td>7,628,762</td>
</tr>
<tr>
<td>DirectGrad Plus</td>
<td>151,801</td>
<td>211,635</td>
<td>125,861</td>
<td>328,446</td>
<td>533,211</td>
</tr>
<tr>
<td>Outside Private Loans</td>
<td>0</td>
<td>0</td>
<td>17,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Total Loans</strong></td>
<td>$8,359,517</td>
<td>$9,164,969</td>
<td>$10,130,617</td>
<td>$9,529,153</td>
<td>$8,719,973</td>
</tr>
<tr>
<td><strong>Scholarships</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Sponsored</td>
<td>777,563</td>
<td>689,669</td>
<td>713,230</td>
<td>690,012</td>
<td>749,146</td>
</tr>
<tr>
<td>Outside Sponsored</td>
<td>342,364</td>
<td>393,442</td>
<td>239,834</td>
<td>162,989</td>
<td>169,613</td>
</tr>
<tr>
<td>Military – Army</td>
<td>38,439</td>
<td>22,953</td>
<td>48,592</td>
<td>13,044</td>
<td>27,168</td>
</tr>
<tr>
<td>Military – Navy</td>
<td>58,994</td>
<td>66,922</td>
<td>72,591</td>
<td>129,130</td>
<td>189,810</td>
</tr>
<tr>
<td>Military - Air Force</td>
<td>97,988</td>
<td>68,335</td>
<td>131,874</td>
<td>144,010</td>
<td>191,971</td>
</tr>
<tr>
<td>Alabama Medical Board Scholarship</td>
<td>35,000</td>
<td>35,000</td>
<td>15,000</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Alabama VA Benefits</td>
<td>25,460</td>
<td>32,969</td>
<td>23,650</td>
<td>25,471</td>
<td>26,616</td>
</tr>
<tr>
<td>Post 9-11 GI Bill</td>
<td>23,702</td>
<td>31,369</td>
<td>61,352</td>
<td>19,641</td>
<td>0</td>
</tr>
<tr>
<td>Faculty Staff Reimbursement</td>
<td>0</td>
<td>0</td>
<td>3,398</td>
<td>27,213</td>
<td>66,758</td>
</tr>
<tr>
<td><strong>Total Scholarships</strong></td>
<td>$1,399,510</td>
<td>$1,340,659</td>
<td>$1,309,521</td>
<td>$1,211,510</td>
<td>$1,421,082</td>
</tr>
<tr>
<td><strong>Average Indebtedness of a Graduating Senior</strong></td>
<td>$133,227</td>
<td>$127,659</td>
<td>$136,604</td>
<td>$141,760</td>
<td>$149,655</td>
</tr>
</tbody>
</table>

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 unexpected financial need. There is no interest charged. During the period August 1, 2013, through July 31, 2014, seven (7) emergency loans were approved for a total amount of $3,500.00. During that period, three (3) payments totaling $1,300.00 were paid back into the loan account.
OFFICE OF EDUCATIONAL ENRICHMENT

Diversity, Recruitment, and Enrichment for Admission into Medicine (DREAM)

The summer of 2014 marked the twenty-eighth (28th) year of the summer enrichment and recruitment program at the University of South Alabama College of Medicine. Throughout this time period to date, the program has served 285 pre-medical students. During this time, a total of 179 students successfully completed both Phases of the program and 124 have entered USACOM as of August, 2014.

The focus of DREAM has been switched to preparing under-represented students to achieve higher MCAT scores to increase their competitiveness for acceptance into medical school and percentage in the medical school compared to parity with their percentage of the state's population. The program is designed to help under-represented students realize their dreams of becoming physicians. The envisioned impact is that these graduates will remain in the state and serve their local communities in an effort to eliminate health disparities within our state and the nation.

PHASE I
The composition of the 2014 Phase I class of incoming DREAM students was ten (10) students; eight (8) females and two (2) males representing seven (7) colleges and universities:

- Alabama State ......................... 3
- Stillman College ....................... 1
- Univ. of South Alabama ................ 2
- Univ. of Southern MS ................... 1
- Spring Hill College .................... 1
- Hampton University ................... 1
- Columbia Univ. NY .................... 1

These participants were residents of:

- Alabama .................................. 5
- Louisiana .................................. 1
- Mississippi ................................. 1
- Florida .................................... 1
- North Carolina ............................ 1
- California .................................. 1

The entering Grade Point Averages of the Phase I participants ranged from 3.0 to 4.0 and ACT scores ranged from 21 to 31. Seven (7) of the ten (10) students passed Phase I of the program and have been invited back for the summer of 2015 to participate in Phase II. The three (3) who were unsuccessful will be tracked, encouraged, and assisted as they continue their efforts toward health careers.
Phase II
Eight (8) students participated in Phase II. They were residents of Alabama (5), Mississippi (2), and Texas (1). They represented seven (7) higher education institutions:

Alabama State................................1
Stillman College..............................1
Univ. of Alabama..............................1
Univ. of Mississippi..........................1
Dillard University............................2
Xavier University.............................1
Howard University...........................1

Each student hailed from a different city; Mobile, Montgomery, Butler, Birmingham, and Opelika, AL; Fayette and Jackson, MS; and Channelview, TX.

These students were participants in the second summer of change from the original BEAR program format of first year medical school curriculum to the Medical College Admission Test and Team-Based Learning format. This format is a change in focus to assist the students in achieving more competitive MCAT scores and becoming more familiar with the new medical school teaching and learning structure.

The new DREAM curriculum is quite intense with review of all the MCAT sciences, Verbal Reasoning and Reading Comprehension with Critical Thinking. Additionally, students were introduced to two new courses that will become part of the new 2015 MCAT: Social Behavior and Biochemistry. The classes are taught in a team-based learning format. Complementary activities including physician seminars, health disparity presentations, and mock interviews were added to enhance the summer enrichment experience.

Six (6) of the eight (8) Phase II students (75%) successfully completed the 2014 program. The highest score achieved in this Phase was 770. Eighty percent (80%), or 720 points, was required for passing. A student from Xavier University, who is a resident of Mobile, achieved the highest score in the class. The lowest score achieved was 647 of the 720 required for passing. The highest achievable score was 900. The entering Grade Point Averages of Phase II participants ranged from 3.5 to 4.0 overall and 3.0 to 4.0 in the sciences.

Admission/Graduation
In August of 2014, three (3) female DREAM students entered the first year medical school class. One student was deferred from the 2013 entering class. Two of the three students who graduated in 2014 were graduates of the DREAM program.

Exit Interview
Program participants were convened at the end of the program for Exit Interviews. In summary, the students were, overall, positive about the program. They complimented the work of the medical student teachers. They remarked that they were made to feel welcome and wanted; their decision to
attend medical school was reaffirmed and their confidence strengthened through the experience. The program was described as challenging and pushed them harder to take responsibility for learning on their own. Their eyes were opened to where they were vs. where they had to go and how they could get there. They were taught study skills that they did not know before and discovered a drive they did not know they possessed.

The participants offered suggestions for improvement. As a result of comments made during last summer’s (2013) interview, when they felt that the days of class from 8:00 a.m. to 5:00 p.m. were too long and did not allow enough study time, we built in extra time for studying and for working on class projects. The majority of the students said that they would definitely attend the USA medical school. They valued having medical students as teachers and felt that all involved really cared about their success.

2014-2015 Recruitment
Visitations to undergraduate institutions will begin during the month of October. Efforts will be directed toward recruitment of sophomore level students for the DREAM program and students who are preparing to enter medical school via the traditional process. The recruitment activities begin in September and end February 15.
OFFICE OF ADMISSIONS
Annual Report for 2013-2014

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 11, 2014, opened June 1 and closed November 15, 2013.

For the Class of 2018, one thousand three hundred sixteen (1316) applications were received. Four hundred twenty-one (421) applications were received from Alabama residents, eight hundred nineteen (819) applications from out of state U.S. citizens, including forty-three (43) from adjacent service area counties in Mississippi and Florida, and seventy-six (76) applications from citizens of foreign countries. The Admissions Committee interviewed a total of two hundred twenty-two (222) applicants of which two hundred eleven (211) were residents of Alabama. Of the applicants interviewed, one hundred fifty-nine (159) were offered admission to fill a class of seventy-six (76). Seventy-one (71) of the matriculating students are Alabama residents and two (2) are from our service area counties. Sixteen (16) offers of admission were made to black applicants, eight (8) have matriculated. Three (3) of the matriculating black students are DREAM (Diversity Recruitment and Enrichment for Admission into Medicine) students. This year our records indicate a decrease in the number of applicants (1417 in '13 vs. 1316 in '14); there was no change in the number of Alabama applicants (421 in '13 vs. 421 in '14). Table I gives comparative data since 2011.

The matriculating Class of 2014 represents twenty-three (23) colleges and universities from the United States. Sixty-eight percent (68%) of this year’s class, however, come from the four (4) largest universities in the state.

Recruitment and Retention Efforts

1. Undergraduate campus recruiting visits and sophomore interviews were implemented by “teams” of faculty and administration. The USACOM recruiting teams counseled over 300 premedical students at 8 colleges and universities.

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

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

4. Informative health career related programs were organized and conducted upon request for
high school students, community organizations, and premedical special interest groups.

5. The following publications were produced and distributed by the Office of Admissions: The College of Medicine Recruitment Brochure, Policies and Procedure Manual, and The USA COM FYI.

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

7. A total of sixteen (16) Applicant Interview Day programs were conducted from September until mid-March. The interviewers, primarily College of Medicine basic science and clinical faculty, serve as members of the Committee on Admissions and/or ad hoc members. These members interviewed two hundred twenty-two (222) applicants; each interviewee was interviewed by three committee members, giving a total of six hundred sixty-six (666) interviews.

8. The following Admissions Committee subcommittees were active in 2013-2014: Scholarship Subcommittee; Alternate List Subcommittee; Early Acceptance Program Subcommittee

**Early Acceptance Program**

In 1990, the College of Medicine and the University's Health Pre-Professions Program established an Early Acceptance Program for qualified high school graduates interested in a career in medicine. Candidates selected for this program must have a minimum high school GPA of 3.5 and an ACT score of 27 (or comparable SAT). Candidates selected for this program receive early acceptance from the University of South Alabama College of Medicine. The students enter the Health Pre-Professions Program at the University of South Alabama, and their curriculum includes the core requirements for their selected baccalaureate program and prerequisites for entering medical school. Students in this program must maintain a specific grade point average during college and are required to meet all other requirements for entering medical school. Students participate in a variety of activities on an individual basis to provide a broad exposure to medical education. Students participating in the program are expected to enter the College of Medicine following completion of the baccalaureate degree.

This year, eighty-five (85) 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 eighteen (18) were offered admission to the program.
<table>
<thead>
<tr>
<th>Residence:</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Applicants</td>
<td>1271</td>
<td>1309</td>
<td>1417</td>
<td>1316</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>389</td>
<td>357</td>
<td>421</td>
<td>421</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>754</td>
<td>874</td>
<td>924</td>
<td>819</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>46</td>
<td>72</td>
<td>50</td>
<td>43</td>
</tr>
<tr>
<td>Foreign</td>
<td>128</td>
<td>78</td>
<td>72</td>
<td>76</td>
</tr>
<tr>
<td>Alabama Female</td>
<td>163</td>
<td>138</td>
<td>198</td>
<td>182</td>
</tr>
<tr>
<td>Out-of-State Female</td>
<td>423</td>
<td>407</td>
<td>472</td>
<td>421</td>
</tr>
<tr>
<td>Alabama Rural</td>
<td>88</td>
<td>88</td>
<td>88</td>
<td>66</td>
</tr>
<tr>
<td>Alabama Black</td>
<td>48</td>
<td>43</td>
<td>62</td>
<td>52</td>
</tr>
<tr>
<td>Out-of-State Black</td>
<td>83</td>
<td>91</td>
<td>67</td>
<td>144</td>
</tr>
<tr>
<td>Total Applicants Interviewed</td>
<td>216</td>
<td>212</td>
<td>230</td>
<td>222</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>179</td>
<td>200</td>
<td>208</td>
<td>211</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>29</td>
<td>6</td>
<td>13</td>
<td>5</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>8</td>
<td>6</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>Foreign</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Female</td>
<td>81</td>
<td>80</td>
<td>92</td>
<td>86</td>
</tr>
<tr>
<td>Rural</td>
<td>36</td>
<td>36</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>Black (excludes DREAMs)</td>
<td>6</td>
<td>11</td>
<td>18</td>
<td>13</td>
</tr>
<tr>
<td>Total Applicants Accepted</td>
<td>149</td>
<td>160</td>
<td>155</td>
<td>159</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>121</td>
<td>149</td>
<td>143</td>
<td>149</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>23</td>
<td>6</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>5</td>
<td>5</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Foreign</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Female</td>
<td>65</td>
<td>56</td>
<td>64</td>
<td>64</td>
</tr>
<tr>
<td>Rural</td>
<td>29</td>
<td>30</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Total Black</td>
<td>6</td>
<td>13</td>
<td>15</td>
<td>16</td>
</tr>
<tr>
<td>Black Regular Admissions</td>
<td>5</td>
<td>10</td>
<td>11</td>
<td>11</td>
</tr>
<tr>
<td>DREAM Program</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Early Decision Program</td>
<td>8</td>
<td>7</td>
<td>11</td>
<td>15</td>
</tr>
<tr>
<td>Total Matriculants</td>
<td>74</td>
<td>74</td>
<td>74</td>
<td>76</td>
</tr>
<tr>
<td>Average MCAT</td>
<td>30</td>
<td>30</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>Average GPA</td>
<td>3.7</td>
<td>3.7</td>
<td>3.7</td>
<td>3.7</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>61</td>
<td>67</td>
<td>67</td>
<td>71</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>11</td>
<td>3</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>2011</td>
<td>2012</td>
<td>2013</td>
<td>2014</td>
</tr>
<tr>
<td>--------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Foreign</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Female</td>
<td>32</td>
<td>28</td>
<td>27</td>
<td>33</td>
</tr>
<tr>
<td>Rural</td>
<td>10</td>
<td>13</td>
<td>12</td>
<td>10</td>
</tr>
<tr>
<td>Total Black</td>
<td>4</td>
<td>4</td>
<td>7</td>
<td>8</td>
</tr>
<tr>
<td>Black Regular Admissions</td>
<td>3</td>
<td>1</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Black DREAM Program</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>
Office of Continuing Medical Education

The Office of Continuing Medical Education (OCME) provides activities that address the continual practice gaps of all healthcare providers. Currently, we are preparing for reaccreditation while seeking accreditation with commendation through the Accreditation Council for Continuing Medical Education (ACCME).

In 2013-2014, the OCME coordinated CME activities provided by the clinical departments and outside agencies. There were approximately 975 regularly scheduled series (Grand Rounds) and 114 conferences accounting for 3,906.50 CME credit hours. In total 10,056 physicians and 10,445 non-physicians credit hours were awarded. Additionally, 13 jointly provided activities with outside agencies (Providence Hospital, Springhill Medical Center, and the Veterans Administration Biloxi) were supported by the Office of CME.

Significant CME Achievements:

- Appointed Co-Editor of the *INTERCOM*
- Increased Jointly-Provided activities
- Appointed to the Graduate Medical Education Committee
- Appointed to the Academy for Medical Educators development committee
- Assisted with St. Mary’s Home collaboration with Department of Pediatrics
- Appointed ACCME Surveyor
- Improved CME tracker program for easy access and CME reporting

CME Plans for 2014-2015:

1. Develop and obtain grants for continuing medical education activities
2. Develop performance improvement and maintenance of certification activities
3. Revamp CME website to include outside resources
4. Seek accreditation with commendation 2015
Office Of Graduate Medical Education

I. Organizational Structure

Dr. Samuel A. McQuiston, Assistant Professor of Radiology at the University of South Alabama, serves as Assistant Dean for Graduate Medical Education (GME), Designated Institutional Official (DIO), and chair of the Graduate Medical Education Committee (GMEC). Dr. McQuiston and the GME Office staff oversee all institutional residency and fellowship training programs accredited by the Accreditation Council for Graduate Medical Education (ACGME).

The GME Office implements policies of the Graduate Medical Education Committee. 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, peer-selected residents and designated representatives of the major teaching hospitals. The GMEC is responsible for reviewing current issues facing residency and fellowship programs and developing institutional policies and procedures to ensure quality of education and of the clinical learning environment. GMEC activities are reported by the Assistant Dean to the Dean of the College of Medicine.

II. Overview

The University of South Alabama Hospitals sponsored 11 residency and 7 fellowship programs with a combined total of 257 approved training positions during the 2013 – 2014 academic year; all residency positions were filled through the Nation Residency Matching Program (NRMP). All residency and fellowship programs at the University of South Alabama are accredited by the ACGME and began transitioning on July 1, 2013, into the Next Accreditation System (NAS) of the ACGME, a continuous accreditation model with collection and review of annual data from each program. With the newly accredited programs, all programs will have a scheduled, self-study visit every 10 years. Training programs are as follows:

<table>
<thead>
<tr>
<th>Residency Program Name</th>
<th>Training Positions</th>
<th>Accreditation Status</th>
<th>Self-Study Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnostic Radiology</td>
<td>20</td>
<td>Continued Accreditation</td>
<td>04/01/2022</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>18</td>
<td>Continued Accreditation</td>
<td>11/01/2018</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>48</td>
<td>Continued Accreditation</td>
<td>05/01/2016</td>
</tr>
<tr>
<td>Internal Medicine/Pediatrics</td>
<td>11</td>
<td>Continued Accreditation</td>
<td>10/01/2022</td>
</tr>
<tr>
<td>Neurology</td>
<td>7</td>
<td>Continued Accreditation</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Obstetrics &amp; Gynecology</td>
<td>16</td>
<td>Continued Accreditation</td>
<td>06/01/2018</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>15</td>
<td>Continued Accreditation</td>
<td>01/01/2025</td>
</tr>
<tr>
<td>Pathology – Anatomic &amp; Clinical</td>
<td>15</td>
<td>Continued Accreditation</td>
<td>04/01/2017</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>36</td>
<td>Continued Accreditation</td>
<td>10/01/2022</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>16</td>
<td>Continued Accreditation</td>
<td>10/01/2021</td>
</tr>
<tr>
<td>Surgery</td>
<td>29</td>
<td>Continued Accreditation</td>
<td>02/01/2019</td>
</tr>
<tr>
<td>Fellowship Program Name</td>
<td>Training Positions</td>
<td>Accreditation Status</td>
<td>Self-Study Date</td>
</tr>
<tr>
<td>-----------------------------------------</td>
<td>--------------------</td>
<td>-----------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>Children’s &amp; Adolescent Psychiatry</td>
<td>4</td>
<td>Initial Accreditation</td>
<td>10/01/2015</td>
</tr>
<tr>
<td>Cardiovascular Disease</td>
<td>6</td>
<td>Continued Accreditation</td>
<td>05/01/2016</td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>1</td>
<td>Continued Accreditation</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>6</td>
<td>Continued Accreditation</td>
<td>05/01/2016</td>
</tr>
<tr>
<td>Pulmonary Disease &amp; Critical Care Medicine</td>
<td>6</td>
<td>Continued Accreditation</td>
<td>05/01/2016</td>
</tr>
<tr>
<td>Sports Medicine (FM)</td>
<td>1</td>
<td>Continued Accreditation</td>
<td>11/01/2018</td>
</tr>
<tr>
<td>Surgery Critical Care</td>
<td>1</td>
<td>Initial Accreditation</td>
<td>11/01/2015</td>
</tr>
</tbody>
</table>

**ACGME Site Visits**

Training programs that were site visited by the ACGME during 2013 – 2014 are as follows:

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Site Visit Date</th>
<th>Notification Letter Date</th>
<th>Effective Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clinical Neurophysiology</td>
<td>03/07/2013</td>
<td>02/03/2014</td>
<td>11/14/2013</td>
</tr>
<tr>
<td>Neurology</td>
<td>03/06/2013</td>
<td>01/23/2014</td>
<td>11/14/2013</td>
</tr>
</tbody>
</table>

**GMEC Oversight**

The GMEC continues to monitor programs through the regular reporting of activities as well as institutional and ACGME housestaff and program feedback. Satisfactory or better results were obtained on all ACGME Resident and Faculty Surveys, completed by programs with 4 or more trainees.

**III. Summary of GME Activities**

In response to the ACGME initiating the Next Accreditation System (NAS) on July 1, 2013, the Assistant Dean and GME Office maintain communication with each of the training programs to sustain awareness of the concepts incorporated in NAS and the Clinical Learning Environment Review (CLER).

Residency programs transitioning into phase 1 of NAS as of July 1, 2013, included the Internal Medicine, Pediatrics, Internal Medicine/Pediatrics, Orthopedic Surgery and Diagnostic Radiology. As part of NAS, all training programs have initiated Program Evaluation Committees and Clinical Competency Committees and prepared to evaluate, document and report housestaff achievement of ACGME Milestones, apprising the GMEC of their progress in these areas. The remaining residency programs entered NAS in phase 2 on July 1, 2014. Most fellowship programs will enter NAS in phase 3.

The Assistant Dean and GME Office maintained awareness of the CLER program by the ACGME. Based on information from the ACGME, the initial CLER site would occur at USAMC at some time before September 2014. The Taskforce met multiple times to discuss
preparation for and logistics of the site visit. The GMEC also remained vigilant in anticipation of the CLER site visit.

Resident Patient Safety & Quality Improvement Programs

New housestaff are introduced at orientation to patient safety and quality improvement programs within USA Hospitals and associated healthcare settings. Residents are appointed to hospital performance improvement committees as appropriate to promote patient safety and quality improvement. In addition, the monthly Chief Resident’s Meeting promotes communication between the housestaff and hospital staff. The *Introduction to the Practice of Medicine* was provided to housestaff. (See GME Resources below.)

Transitions in Patient Care and Supervision of Residents

Resources are available to the housestaff via the USA GME Dropbox on transitions in patient care, including “The Top Ten List for a Safe and Effective Sign-out (Kemp et al: Arch Surg 2008; 143(10): 1008-1010); “Resident Sign-out: A Precarious Exchange of Critical Information in a Fast-Paced World (Borrowitz, et al; Advances in Patient Safety: New Directions and Alternative Approaches) as well as quick references related to core measures. Project sites within Sakai were created and/or maintained by the GME staff, covering Central Line Insertion, Communication & Team Work, Patient Safety, Transitions in Care, and the QI Project Site.

Oversight of Housestaff Duty Hours and Fatigue Management

In recognition of the importance of compliance with ACGME duty hour standards, each program is charged with establishing a clinical learning environment that fosters compliance with the ACGME standards. Each program and the institution have developed policies and procedures governing duty hours. Residents log their duty hours into New Innovations, based on their program’s policies and procedures. The GME Office oversees duty hour logging monthly, while the GME oversees compliance.

GME Resources

During the 2013 – 2014 academic year, the *Introduction to the Practice of Medicine (IPM)*, a set of web-based modules from the AMA, were provided by the institution to meet the training needs of housestaff, including patient safety, quality improvement, transitions in care, cultural competence, residents as teachers, and professionalism. All residents and fellows were required to complete the *IPM* modules on “Sleep Deprivation”, “Residents as Teachers” and “Cultural Competence in Healthcare”. Additional *IPM* modules available to housestaff include:

- Patient Handoffs
- Patient Safety: Identifying Medical Errors
- Physician Health: Physicians Caring for Ourselves
- Quality Improvement Panel
- Resident Intimidation
- Thriving Through Residency: The Resilient Resident
Dr. Joyce Guest, GME Instructional Design Specialist, began development of the USA Faculty Development Curriculum and maintained Sakai-based resources covering the following areas:

- Basics of Research
- Bioethics and Physician-Industry Ethics
- Delivering Bad News
- Faculty Development
- Neurology and Neuropathology
- New Resident Orientation
- PQRS - Physician Quality Reporting System: A CMS Quality Care Initiative
- Professionalism
- Resident Development, Resident Evaluation, and Residents as Teachers
- Surgery, Surgery Clerkship, STICU, and Surgical Critical Care
2013-2014
Summary of Activities
Medical Student Summer Research Program

The Forty First Annual Medical Student Research Day was held on Friday, August 1, 2014 hosting approximately 175 attendees in the Medical Sciences Building for both oral and poster presentations. Forty 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. Arthur P. Grollman, Distinguished Professor of Pharmacological Sciences, Evelyn G. Glick Professor of Experimental Medicine, and Director of the Leo and Judy Zickler Laboratory of Chemical Biology (LCB) at Stony Brook University was the keynote speaker. Dr. Grollman’s seminar was entitled, “Mutational signature of aristolochic acid: biomarker for an environmental carcinogen and harbinger of an environmental and global disease”.

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

**ORAL PRESENTATIONS**

**Megan Zak**, Rising Sophomore. Role Of Internal Ca2+ Stores In Enhancing The Negative Feedback Influence Of Kca2.3 Channels On Oxytocin-Induced Myometrial Contractions. Sponsored by Mark Taylor, Ph.D. And Mike Lin, Ph.D., Department of Physiology

**William A. Ricks**, Rising Sophomore. The Assessment of Microvascular Integrity Using the Sidestream Dark Field Microscope (Sdfm) In Partial Thickness Burns. Sponsored by Jon D. Simmons, MD, Mark N. Gillespie, Ph.D., M. Amin Frotn, MD, Salii Gulati, MD, Juvonda Hodge, MD, Sidney B. Brevard, MD, Richard P. Gonzales, MD, Departments of Surgery and Pharmacology

**Grant Willis**, Rising Sophomore. Plasma Levels Of Mitochondrial DNA Are Associated With Clinical Outcome In Severe Burn Patients. Sponsored by William Richards, M.D. Jon Simmons, M.D. Mark Gillespie, Ph.D., Department of Surgery and Pharmacology

**Cady Beedy**, Rising Sophomore. Importance of TLR Signaling In Murine Pulmonary Alveolar Proteinosis. Sponsored by Robert Barrington, Ph.D., Department of Microbiology and Immunology

**Caroline Miller**, Rising Sophomore. Genome Wide Chip-Sequence Analysis Reveals That Signaling-Related Oxidative DNA Damage Is Clustered In Promoter Regulatory Sequences. Sponsored by Viktor Pastukh, Ph.D., Justin Roberts, B.S., Glen Borchert,
Ph.D., and Mark Gillespie, Ph.D. Department of Pharmacology, Center for Lung Biology, and Department of Biology

Bliss Cook, Rising Sophomore. Myosin Dystrophy Kinase-Like Alpha (Mrckα) Promotes Cell Migration And Invasion Of Breast Cancer Cells By Localizing To Focal Adhesions And Phosphorylating the Arp 2/3 Complex. Sponsored by Lawrence Leclaire Ph.D., Department of Biochemistry and Molecular Biology

Alex Cohen, Rising Sophomore. Maximizing Healthy Food Purchases Among Food Assistance Program Beneficiaries. Sponsored by Martha Arrieta, MPH, M.D., Ph.D., Department of Internal Medicine and Center for Healthy Communities

Haylie Reed, Incoming Freshman. Genomic Editing Of Human Ppp5c Using The Crispr Cas9 System. Sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology

Alan Akira, Incoming Freshman. The Effects of Labor Market Status on Health Care Access. Sponsored by, Ken Hudson, Ph.D. and Errol Crook, M.D., Center for Healthy Communities

Krista Stephenson, Rising Sophomore. The Sequence of Acquisition of Toilet Training Skills in Neurotypical Children. Sponsored by Ladonna Crews, MD, Donna Wooster, Ph.D., and Hanes Swingle, Md. Department of Pediatrics

POSTER PRESENTATIONS

Sean Carter, Rising Sophomore. Dermal Regeneration Template In The Treatment of Acute Burns: Retrospective Review And Outpatient Physical Exam. Sponsored by Salil Gulati, M.D., Juvonda Hodge, M.D., Mohammed Frotan, M.D., Department of Surgery

Parker Mullen, Rising Sophomore. Circulating Levels Of Mitochondrial DNA In Elective Surgery Patients. Sponsored by Marcus C. Tan, MBBS, Mark N. Gillespie, Ph.D., William O. Richards, M.D., and Jon D. Simmons, M.D. Departments of Pharmacology and Surgery

Hannah Kinard, Rising Sophomore. Oxygen Consumption In Pulmonary Microvasculal Endothelial Cells Following Over-Expression Of The Glucose Transporter Glut-1. Sponsored by Brian Fouty, M.D. and Jonathon Audia, Ph.D., Departments of Internal Medicine, Pharmacology, and Microbiology and Immunology

Jordan Lowery, Incoming Freshman. Acid Sensing Ion Channels In Ischemia-Induced Neuronal Injury In Hippocampal Slices. Sponsored by Xiangming Zha, Ph.D., Department of Cell Biology and Neuroscience

Paterson Graham, Rising Sophomore. Serum Pregnancy-Associated Plasma Protein-A As A Biomarker For Coronary Artery Disease. Sponsored by William Gerthoffer, Ph.D. and
Clara Massey, M.D., Department of Biochemistry & Molecular Biology and Division of Cardiology, Department of Internal Medicine

Ankur Singh, Rising Sophomore. In The Course Of Degradation, Mitochondrial Dna Is Contained Within Cells. Sponsored by Mikhail Alexeyev, Ph.D., and Robert Barrington, Ph.D., Departments of Cell Biology and Neuroscience, and Microbiology and Immunology

Jordan Nickols, Incoming Freshman. Bicarbonate Is Required For Lps-Induced Pulmonary Endothelial Barrier Disruption. Sponsored by Sarah Sayner, Ph.D., Department of Cell Biology and Neuroscience, Center for Lung Biology

Jacob Sexton, Rising Sophomore. Airway Remodeling In A House Dust Mite Model Of Asthma. Sponsored by William Gerthoffer, Ph.D., Department of Biochemistry and Molecular Biology

Justin Jong, Incoming Freshman. Endothelial Small-Ca2+-Activated K+ (Sk) Channels Contribute To Mesenteric Artery Relaxation. Sponsored by Mike Lin, Ph.D., and Mark Taylor, Ph.D. Department of Physiology

Blake Tennant, Rising Sophomore. Focal Adhesion Kinase Regulates Tgf-β-Induced Epithelial-Mesenchymal Transition Through Tyrosine Phosphorylation of B-Catenin. Sponsored by Steve Lim, Ph.D., Department of Biochemistry and Molecular Biology

Carmen Lopez, Rising Sophomore. Hyperspectral Imaging Approaches For Endoscopic Colon Cancer Detection. Sponsored by Silas Leavesley, Ph.D., Department of Chemical and Biomolecular Engineering, Department of Pharmacology, Center for Lung Biology, Thomas Rich, Ph.D., Department of Pharmacology, Center for Lung Biology, and Carole Boudreaux, M.D., Department of Pathology

Hannah Schrubbe and Ansley Smith, Rising Sophomore. Health Literacy and Correlation between Assessments. Sponsored by Gerald Liu, M.D. and R. Allen Perkins, M.D., MPH, Department of Family Medicine

Sara Shields Tarwater, Rising Sophomore. Neuraminidase Mediated Breast Cancer Metastasis. Sponsored by Donna L. Cioffi, Ph.D., Department of Biochemistry and Molecular Biology, and Eugene A. Cioffi, Department of Pharmacology

James White, Rising Sophomore. P2y12 Receptor Antagonists Postcondition The Heart Through Release of Sphingosine From Platelets. Sponsored by Michael V. Cohen, M.D., And James M. Downey, Ph.D., Department of Physiology

Brian Mcgrath, Rising Sophomore. Role of Aspergillus Fumigatus Sialidase In Growth And Virulence. Sponsored by Jarrod Fortwendel, Ph.D., Department of Microbiology And Immunology; Eugene Cioffi, Ph.D., Department of Pharmacology, Center for Lung Biology; Donna Cioffi, Ph.D., Department of Biochemistry and Molecular Biology
Imran Mohiuddin, Incoming Freshman. Sphingolipidomic Analysis of Gastrointestinal Lavage Fluid. Sponsored by Lewis Pannell, Ph.D., Proteomics and Mass Spectrometry, Mitchell Cancer Institute, & Marcus Tan, MBBS, Surgical Oncology, Mitchell Cancer Institute and Department of Surgery

Margot Fontenot, Rising Sophomore. Obesity-Induced Meta-Inflammation Speeds Cognitive Decline Measured As Executive Functioning In Mice. Sponsored by Jon Audia, Ph.D., Diego Alvarez, M.D., Ph.D., Departments of Microbiology and Immunology, Internal Medicine, Pharmacology, Center for Lung Biology

William Tillman, Rising Sophomore. Antimir-145 Reduces Macrophages/Monocytes In Pulmonary Arterial Hypertension. Sponsored by William Gerthoffer, Ph.D., Department of Biochemistry and Molecular Biology

Martha O'hea, Incoming Freshman. The Effect Of Lipectomy On Caspase-1 Levels And Mitochondrial Respiration In Obese Leptin Deficient Rats. Sponsored by William Richards, M.D., Jon Audia, Ph.D., Petra Rocic, Ph.D., Diego Alvarez, M.D., Ph.D., Departments of Surgery, Microbiology and Immunology, Internal Medicine, Pharmacology, Center for Lung Biology

Viet Huyhn, Rising Sophomore. Mitochondrial Dna Damage Associated Molecular Patterns As A Measure Of Localized Lung Injury In Ventilator Associated Pneumonia And The Development Of Multiple Organ Dysfunction Syndrome. Sponsored by Mark Gillespie, Ph.D., Jon Simmons, M.D., Departments of Pharmacology, Surgery, Center for Lung Biology

Corwin Mcgee, Rising Sophomore. Tat-Protein Transduction Of Dna Repair Enzymes Into Mitochondria Improves Mitochondrial Function And Insulin Sensitivity In Primary Human Myotubes. Sponsored by Lyudmila Rachek, Ph.D., Department of Cell Biology and Neuroscience

Peter Soh, M.P.H., Rising Sophomore. Risk Of Stroke In Patients With Sickle Cell Disease After Splenectomy. Sponsored by Abdul Hafeez Siddiqui, M.D. Department of Pediatrics

Mark Ledbeter, Rising Sophomore. Effect Of Microtubule Disruption On Hypoxia-Induced Mitochondrial Fission And Biogenesis. Sponsored by Abu-Bakr Al-Mehdi, M.D., Ph.D., and Mark N. Gillespie, Ph.D., Department of Pharmacology

Thomas Baker, Rising Sophomore. Hyperspectral Imaging Of Lung Tissue To Detect Cancerous Changes. Sponsored by Tom Rich, Ph.D., Department of Pharmacology, Center for Lung Biology, Silas Leavesley, Ph.D., Department of Chemical and Biomolecular Engineering, and Carole Boudreaux, M.D., Department of Pathology
Laura Cauthen, Rising Sophomore. Pseudomonas Aeruginosa Infection Causes Release Of A Cytotoxic Factor From Pulmonary Microvascular Endothelial Cells. Sponsored by Nicole Housley, Ron Balczon, Ph.D. Department of Cell Biology and Neuroscience, and Troy Stevens, Ph.D., Center for Lung Biology, Department of Pharmacology

William Harvey, Rising Sophomore. Pseudomonas Aeruginosa Infection Induces Release Of Monomeric And Oligomeric Endothelial Tau As A Putative Mechanism Of Cytotoxicity. Sponsored by Troy Stevens, Ph.D., Center for Lung Biology, Department of Pharmacology

Bradley Edmonds, Rising Sophomore. Pseudomonas Aeruginosa Infection Induces Release Of A Transmissible Prion-Like Element From Pulmonary Microvascular Endothelial Cells. Sponsored by Ron Balczon, Ph.D., Department of Cell Biology and Neuroscience and Troy Stevens, Ph.D., Department of Pharmacology, Center for Lung Biology

Coulson Gray, Rising Sophomore. Investigating Sphingosine-1-Phosphate As A Potential Pharmacological Target In The Treatment Of Pulmonary Hypertension. Sponsored By Ivan McMurtry, Ph.D., Department of Pharmacology, Center for Lung Biology

Kevin Putinta, Rising Sophomore. Lps Dose-Dependently Increases Soluble Adenylyl Cyclase Isoform 10 (Ac10) Expression. Sponsored by Sarah Sayner, Ph.D., Department of Cell Biology and Neuroscience, Center for Lung Biology

Jason Snider, Rising Sophomore. Heterogeneity Of Hypoxia-Induced Oxidant Generation And Mitochondrial Membrane Potential In Endothelial Cells. Sponsored by Abu-Bakr Al-Mehdi, M.D., Ph.D and Mark N. Gillespie Ph.D., Department of Pharmacology

The Clyde G. “Sid” Huggins Medical Student Research Awards were presented to Ms. Haylie Reed, freshman medical student, for best oral presentation entitled, “Genomic Editing Of Human Fpp5c Using The Crispr Cas9 System”. She was sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology. Mr. James White, sophomore medical student, was presented best poster presentation entitled, “P2y12 Receptor Antagonists Postcondition The Heart Through Release Of Sphingosine From Platelets”. He was sponsored by Michael V. Cohen, M.D., and James M. Downey, Ph.D., Department of Physiology. Each winner was presented with a plaque of recognition and cash award. Recipients are eligible to make their presentations at the Annual National Research Forum in Galveston, Texas.
Graduate Program in Basic Medical Sciences

Administration

Dr. Thomas Rich completed his first year of a two-year term, as Director of Basic Medical Sciences Graduate Program.

Admissions

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

Interviews for Basic Medical Sciences Graduate Program Fall 2014 Class applicants were held in February, March, April, and May. A total of 8 students were interviewed (US=6; International=2). A summary of Admissions activity is provided below.

<table>
<thead>
<tr>
<th>Admissions - BMS Graduate Program</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inquiries</td>
<td>59</td>
</tr>
<tr>
<td>International</td>
<td>43</td>
</tr>
<tr>
<td>Applications</td>
<td>15</td>
</tr>
<tr>
<td>US</td>
<td>11</td>
</tr>
<tr>
<td>International</td>
<td>1</td>
</tr>
<tr>
<td>Acceptances</td>
<td>4</td>
</tr>
<tr>
<td>US</td>
<td>1</td>
</tr>
<tr>
<td>International</td>
<td>1</td>
</tr>
<tr>
<td>Matriculants</td>
<td>4</td>
</tr>
<tr>
<td>US</td>
<td>1</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Average GRE</td>
<td>1196</td>
</tr>
<tr>
<td>Av. UG GPA</td>
<td>3.43</td>
</tr>
<tr>
<td>Av. GR GPA</td>
<td>3.81</td>
</tr>
</tbody>
</table>

Recruitment Activities

1. Dr. Rich met with faculty colleagues at regional colleges and universities during Fall, 2013. Also, Dr. Rich and Ms. Flagge participated in the Alabama Connection Graduate School Recruitment Expo in October, 2013. Ms. Flagge represented the program at several College Graduate Program and Career Day Expos in north Louisiana in September, 2013 and participated in the ARK-LA-TEX Career Fair in April, 2014.

2. Presentations were made to USA’s Premedical Honors Society and Freshman Biomedical Sciences students.

3. Students from undergraduate programs at USA attended the seventh annual Basic Medical Sciences Graduate Forum November 1, 2013.
Curriculum

1. The 7th COM Research Forum was held in November, 2013.
2. The BMS Graduate Program Executive Committee established the Edwin R. Hughes Memorial Award in 2006 to honor the outstanding student in the IDL Core Classes on an annual basis. The award is presented annually on the first day of fall semester classes. Previous award recipients include: 2007-2008/Cristhiaan Ochoa; 2008-2009/Abdallah Al-Zoubi; 2009-2010/Heba Khader; 2010-2011/David Schmitt; 2011-2012/Joshua Phillips; 2012-2013/Tiffany S. Anderegg Norton. Dr. Strada, Dean of the College of Medicine, presented the seventh annual award to Ms. Sabrina Ramilla on August 18, 2014.

New Programs/Policies/Requirements

1. Developments were made and implemented as a result of recommendations made at the last faculty retreat, including:
   a. establishing more stringent requirements for students to document progress between committee meetings.
   b. restructuring first-year rotations from a total of four 5-week rotations to three 9-to-10 week rotations.

BMSSO-Basic Medical Sciences Student Organization

BMSSO hosted outside speakers to address topics and employment opportunities with governmental agencies and industry. The organization also hosted the annual Charles Baugh “Dawg Day” during the 2013 Fall Semester. In August, 2014, BMSSO members hosted a “Welcome” reception at Dr. Gertshoffer’s home for the incoming 2014 Class during Orientation Week.

Extramural Support for Graduate Training

I. The NIH Pre-doctoral Institutional Training Grant on “Cell Signaling and Lung Pathobiology” continues to yield stipend support to six Basic Medical Science Graduate Students.
II. BMS Graduate Program students received extramural grant awards through American Heart Association and EPSCOR. Additionally, several national conferences and annual societies awarded travel awards to several students.

Graduates

One hundred eighty-eight students have received a Ph.D. in Basic Medical Sciences. Students completing all requirements during the academic year (September 2013-August 2014) are as follows:
<table>
<thead>
<tr>
<th>Name</th>
<th>Dissertation Title</th>
<th>Major Professor</th>
<th>Department/Track</th>
<th>Current Position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brian Scott Comer</td>
<td>“Cyclooxygenase-2 Expression in Asthmatic Human Airway Smooth Muscle Cells”</td>
<td>William T. Gerthoffer, Ph.D.</td>
<td>Biochemistry and Molecular Biology-CLB</td>
<td>Postdoctoral Fellow, Indiana University, Indianapolis, Indiana</td>
</tr>
<tr>
<td>Ashley DeCoux</td>
<td>“Hypoxia Increases TLR2 Expressions and Signaling in Fetal Lung Fibroblasts”</td>
<td>Sarah A. Gebb, Ph.D.</td>
<td>Cell Biology and Neuroscience-CLB</td>
<td>Postdoctoral Fellow; University of Mississippi Medical Center, Jackson, Mississippi</td>
</tr>
<tr>
<td>Rebecca L. Hutcheson</td>
<td>“Regulation of Vascular Smooth Muscle Phenotype During Coronary Collateral Growth in the Metabolic Syndrome”</td>
<td>Petra Rocic, Ph.D.</td>
<td>Biochemistry and Molecular Biology</td>
<td>Postdoctoral Fellow; New York Medical College, Vahalla, New York</td>
</tr>
<tr>
<td>Heba Abdoul Razzak Khader</td>
<td>“An Increase in Glucose Uptake Per Se is Insufficient to Induce Oxidative Stress and Vascular Endothelial Cell Dysfunction”</td>
<td>Brian W. Fouty, M.D.,Ph.D.</td>
<td>Pharmacology</td>
<td>Associate Professor, Department of Pharmacology, Zarqa University, Zarqa, Jordan</td>
</tr>
<tr>
<td>Jamie Kuck</td>
<td>“Mitochondrial DNA Damage-Associated Molecular Patterns Mediate the Response to Bacteria-Induced Lung Injury”</td>
<td>Mark N. Gillespie, Ph.D.</td>
<td>Pharmacology - CLB</td>
<td>Postdoctoral Fellow; Department of Allergy, Pulmonary, and Critical Care Medicine, Vanderbilt University, Nashville, Tennessee</td>
</tr>
</tbody>
</table>
Jana Moerbe Rocker
DISSERTATION TITLE: "Gastrointestinal Lavage Fluid as a Source of Biomarkers of Colorectal Cancer"
MAJOR PROFESSOR: Lewis Pannell, Ph.D.
DEPARTMENT/TRACK: Cancer Biology
CURRENT POSITION: Postdoctoral Fellow; Mitchell Cancer Institute, Mobile, AL

Patricia Caridad Villalta
DISSERTATION TITLE: "The Role of Matrix Metalloproteinase 2 and 9 in TRPV4-Induced Lung Injury"
MAJOR PROFESSOR: Mary L. Townsley, Ph.D.
DEPARTMENT/TRACK: Physiology-CLB
CURRENT POSITION: To Be Determined
Summary of Extramural Support

Funding for the 2013-2014 academic year includes $12,076,970 and $3,380,395 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Last 4 Years
2011 $16,635,836
2012 $15,799,086
2013 $14,508,914
2014 $15,457,365

College of Medicine Total Annual Extramural Funding From all Sources

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>Millions of Dollars</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>$17</td>
</tr>
<tr>
<td>2012</td>
<td>$16</td>
</tr>
<tr>
<td>2013</td>
<td>$15</td>
</tr>
<tr>
<td>2014</td>
<td>$17</td>
</tr>
</tbody>
</table>
Summary of Extramural Support

Funding for the 2013-2014 academic year includes $12,076,970 and $3,380,395 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Last 4 Years
2011 $16,635,836
2012 $15,799,086
2013 $14,508,914
2014 $15,457,365

College of Medicine Total Annual Extramural Funding From All Sources

Fiscal Year

Revised 2/25/2015
# Extramural Funding

**(October 1, 2013 – September 30, 2014)**

## 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 R01 HL107778-02</td>
<td>Immunophilins Regulate SOC Entry Channels in Pulmonary Endothelial Cells</td>
<td>$363,825.00</td>
</tr>
<tr>
<td>Donna Cioffi</td>
<td>American Physiological Society 140118</td>
<td>Giles F. Filley Application</td>
<td>$12,000.00</td>
</tr>
<tr>
<td>William Gerthoffer</td>
<td>AHA 13PRE17070053-01</td>
<td>Expression and Significance of MicroRNA-145 in Pulmonary Hypertension</td>
<td>$26,000.00</td>
</tr>
<tr>
<td>Richard Honkanen</td>
<td>NIH 5 R01 HL110937-04</td>
<td>Methods to Enable Cholesterol Catabolism in Human Monocyte Derived Macrophages</td>
<td>$334,125.00</td>
</tr>
<tr>
<td>Steve Lim</td>
<td>AHA 12SDG 10970000-02</td>
<td>Nuclear Localized FAK Controls VCAM-1 Expression in Vascular Inflammation</td>
<td>$77,000.00</td>
</tr>
</tbody>
</table>

**Total** $812,950.00

## Cell Biology & Neuroscience

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 5P01 HL066299-13 CORE C</td>
<td>Lung Endothelial Cell Phenotypes- Core C*</td>
<td>$272,825.00</td>
</tr>
<tr>
<td>Mikhail Alexeyev</td>
<td>Exscien Coporation 140325</td>
<td>Services Agreement</td>
<td>$24,000.00</td>
</tr>
</tbody>
</table>

*Center for Lung Biology Program Project*
## CELL BIOLOGY & NEUROSCIENCE (Cont’d)

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyudmila Rachek</td>
<td>American Diabetes Association 7-13-BS-139-BR</td>
<td>Targeting DNA Repair Enzymes into Mitochondria as a New Therapeutic Strategy for Insulin Resistance</td>
<td>$60,000.00</td>
</tr>
<tr>
<td>Sarah Sayner</td>
<td>Parker B. Francis Fellowship Program 120017-02</td>
<td>Bicarbonate Transporters are Required for AC 10-Induced Endothelial Barrier Disruption</td>
<td>$54,000.00</td>
</tr>
<tr>
<td>Glenn Wilson &amp; Albert Pearsall</td>
<td>Fidia Farmaceutici, S.P.A.</td>
<td>Effect of Hymovis/HYADD4-G and PRP (platelet rich plasma) on Viability and Function of Human OA Chondrocytes</td>
<td>$23,000.00</td>
</tr>
<tr>
<td>Xiangming Zha</td>
<td>AHA 13SDGI3970009-01</td>
<td>ASIC Trafficking and Ischemia-Induced Neuronal Damage</td>
<td>$77,000.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$510,825.00</strong></td>
</tr>
</tbody>
</table>

### 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>CMMS 9185</td>
<td>Alabama Medicaid Maternity Contract</td>
<td>$10,000.00</td>
</tr>
</tbody>
</table>
## CENTER FOR STRATEGIC HEALTH INNOVATIONS (Cont'd)

<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>CMMS 11-52 Amendment 4</td>
<td>Patient Care Network/PMP Portal</td>
<td>$350,000.00</td>
</tr>
<tr>
<td>Dan Roach</td>
<td>CMMS MP2014-09-11</td>
<td>Patient Care Network/PMP Portal</td>
<td>$350,000.00</td>
</tr>
<tr>
<td>Dan Roach</td>
<td>CMMS 150019</td>
<td>The Healthy Active Living: An Obesity Prevention and Treatment Quality Improved Project Medicaid I</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Dan Roach</td>
<td>CMMS 170102</td>
<td>Alabama Medicaid HIE</td>
<td>$837,408.00</td>
</tr>
<tr>
<td>Dan Roach</td>
<td>CMMS 170160</td>
<td>Medicaid Maternity</td>
<td>$22,326.00</td>
</tr>
<tr>
<td>Dan Roach</td>
<td>CMMS 170180</td>
<td>Medicaid Maternity</td>
<td>$10,000.00</td>
</tr>
<tr>
<td>David Wallace</td>
<td>ADPH C40118183 (GC-14-326)</td>
<td>Advanced Regional Response Training Center 2015 (ARRTC Training 2015)</td>
<td>$970,000.00</td>
</tr>
<tr>
<td>David Wallace</td>
<td>ADPH C40118182 (GC-14-325)</td>
<td>Alabama Incident Management System 2015 (AIMS)</td>
<td>$224,997.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$2,429,731.00</strong></td>
</tr>
</tbody>
</table>

## EMERGENCY MEDICINE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>NIH PS# 107223-01.</td>
<td>Cardiovascular Inflammation Reduction Trial (CIRT)</td>
<td>$5,500.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$5,500.00</strong></td>
</tr>
</tbody>
</table>
### FAMILY MEDICINE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carol Motley</td>
<td>HRSA 5 D56 HP23279-04-00</td>
<td>PreDoctoral Training in Primary Care</td>
<td>$145,137.00</td>
</tr>
<tr>
<td>Allen Perkins</td>
<td>HRSA 5 D58 HP23236-04-00</td>
<td>Residency Training in Primary Care Program</td>
<td>$121,771.00</td>
</tr>
<tr>
<td>Allen Perkins</td>
<td>AFPRHB 140379</td>
<td>A Resident Curriculum in Rural Family Medicine at the University of South Alabama Family Medicine Residency</td>
<td>$52,000.00</td>
</tr>
<tr>
<td>Allen Perkins</td>
<td>AFPRHB 140460</td>
<td>Student Preceptorship</td>
<td>$60,000.00</td>
</tr>
<tr>
<td>Allen Perkins</td>
<td>AFPRHB 140059</td>
<td>Student Preceptorship</td>
<td>$30,000.00</td>
</tr>
<tr>
<td>Allen Perkins</td>
<td>AFPRHB 140056</td>
<td>Locating the AHA Moment and Intervening: Finding Out when Alabama Medical Students Opt Out of Family Medicine and How AFPRHB Programs Affect the Outcomer</td>
<td>$30,000.00</td>
</tr>
</tbody>
</table>

**Total** $438,908.00

### INTERNAL MEDICINE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diego Alvarez</td>
<td>NIH 5P01 HL066299-13 CORE B</td>
<td>Lung Endothelial Cell Phenotypes-Core B*</td>
<td>$349,159.00</td>
</tr>
<tr>
<td>Ghulam Mustafa Awan</td>
<td>Regado Biosciences, Inc</td>
<td>A Randomized, Open-Label, Multi-Center, Active Controlled, Parallel Group Study to Determine the Efficacy and Safety of the REG1 Anticoagulation System Compared to Bivalirudin in Subjects Undergoing Percutaneous Coronary Intervention (REGULATE-PCI)</td>
<td>$7,700.00</td>
</tr>
</tbody>
</table>

*Center for Lung Biology Program Project
<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ghulam Maustafa Awan</td>
<td>Duke University Subcontract</td>
<td>A Randomized, Double-Blind, Parallel Group, Multicenter Phase IIIb Study to Compare Ticagrelor with Clopidogrel Treatment on the Risk of Cardiovascular Death, Myocardial Infarction and Ischaemic Stroke in Patients with Established Peripheral Artery Disease (EUCLID-Examining Use of Ticagrelor In paD)</td>
<td>$14,745.00</td>
</tr>
<tr>
<td>Jong Baliog Jr.</td>
<td>Human Genome Sciences Inc</td>
<td>A Phase 3, Multi-Center, Multinational, Randomized, Double-Blind, Study to Evaluate the Efficacy and Safety of Belimumab (HGS1006) in Combination with Azathioprine for the Maintenance of Remission in Wegener’s Granulomatosis and Microscopic Polyangiitis</td>
<td>$2,500.00</td>
</tr>
<tr>
<td>Barbara Burckhartt</td>
<td>Novartis Pharmaceuticals</td>
<td>A Multicenter, Randomized, Double-Blind, Parallel Group, Active-Controlled Study to Evaluate the Efficacy and Safety of LCZ696 Compared to Valsartan, on Morbidity and Mortality in Heart Failure Patients (NYHA Class II-IV) with Preserved Ejection Fraction</td>
<td>$3,000.00</td>
</tr>
<tr>
<td>Brooks Cash</td>
<td>NinePoint Medical</td>
<td>High Resolution Optical Imaging of Esophageal Tissue Using the Navision VLE Imaging System Registry</td>
<td>$3,750.00</td>
</tr>
<tr>
<td>Errol Crook</td>
<td>NIH 5 P20 MD002314-08</td>
<td>Broad-Based Research Collaboratives on Minority Health and Health Disparities</td>
<td>$1,106,344.00</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>Errol Crook</td>
<td>NIH HSR-SSS-S 13-003170-01</td>
<td>Gulf Study Biomedical Surveillance Clinical Examination</td>
<td>$11,780.00</td>
</tr>
<tr>
<td>Errol Crook</td>
<td>NIH HSR-SSS-S 14-003667</td>
<td>Gulf Study Biomedical Surveillance Clinical Examination</td>
<td>$491,099.00</td>
</tr>
<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceutical</td>
<td>Multi-center, Open-label, Extension Study to Evaluate the Long-term Efficacy and Safety of Oral Tolvaptan Tablet Regimen in Subjects with Autosomal Dominant Polycystic Kidney Disease (ADPKD)</td>
<td>$16,300.00</td>
</tr>
<tr>
<td>Michael Culpepper</td>
<td>AbbVie, Inc.</td>
<td>A Randomized, Multicountry, Multicenter, Double-Blind, Parallel, Placebo Controlled Study of the Effects of Atrasentan on Renal Outcomes in Subjects with Type 2 Diabetes and Nephropathy - SONAR: Study of Diabetic Nephropathy with Atrasentan</td>
<td>$2,500.00</td>
</tr>
<tr>
<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>A Randomized, Multi-Center Study of First-Line Ambrisentan and Tadalafil Combination Therapy in Subjects with Pulmonary Arterial Hypertension</td>
<td>$18,918.00</td>
</tr>
<tr>
<td>Karen Fagan</td>
<td>United Therapeutics Corporation</td>
<td>A Postmarketing Observational Study to Assess Respiratory Tract Adverse Events in Pulmonary Arterial Hypertension Patients Treated with Tyvaso (treprostinil) Inhalation Solution</td>
<td>$13,500.00</td>
</tr>
<tr>
<td>Johnson Haynes</td>
<td>HemaQuest Pharmaceuticals</td>
<td>A Randomized, Placebo-Controlled, Phase II Study of HQK-1001 in Sickle Disease</td>
<td>$31,687.00</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>Johnson Haynes</td>
<td>Selexys Pharmaceuticals</td>
<td>A Phase II, Multicenter, Randomized, Placebo-Controlled, Double-Blind, 12 Month Study to Assess Safety and Efficacy of SelG1 with or without Hydroxyurea Therapy in Sickle Cell Disease Patients with Sickle Cell-Related Pain Crises</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Jorge Herrera</td>
<td>Merck &amp; Co., Inc.</td>
<td>A Randomized, Active-Controlled, Dose-Ranging Estimation Study to Evaluate the Safety, Tolerability, and Efficacy of Different Regimens of MK-5172 When Administered Concomitantly with Peginterferon α-2b and Ribavirin in Treatment-Naïve Patients with Chronic Genotype 1 Hepatitis C Virus Infection</td>
<td>$4,399.00</td>
</tr>
<tr>
<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>
<td>$18,674.00</td>
</tr>
<tr>
<td>Clara Massey</td>
<td>Sanofi US Services Inc</td>
<td>A Randomized, Double-Blind, Placebo-Controlled, Parallel-group Study to Evaluate the Effect of SAR236553/REGN727 on the Occurrence of Cardiovascular Events in Patients Who Have Recently Experienced an Acute Coronary Syndrome</td>
<td>$6,836.00</td>
</tr>
</tbody>
</table>
### INTERNAL MEDICINE (Cont'd)

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Masahiko Oka</td>
<td>University of Tampere 140261 Subcontract</td>
<td>Enhancing Effects of CAR Peptide Conjugated with Rat Serum Albumin on Pulmonary Vasodilation</td>
<td>$5,000.00</td>
</tr>
<tr>
<td>Bassam Omar</td>
<td>Hoffman-La Roche, Inc</td>
<td>A Multi-Center, Randomized, Double-Blind, Placebo-Controlled Cardiovascular Outcomes Study to Evaluate the Potential of Aleglitazar to Reduce Cardiovascular Risk in Patients with a Recent Acute Coronary Syndrome (ACS) Event and Type 2 Diabetes Mellitus (T2D)</td>
<td>$12,300.00</td>
</tr>
<tr>
<td>Reynaldo Rodriguez</td>
<td>Braintree Laboratories</td>
<td>BLI800-203 A Pilot Evaluation of an Experimental BLI800 Formulation for Bowel Preparation in Adult Patients Undergoing Colonoscopy</td>
<td>$20,000.00</td>
</tr>
<tr>
<td>John Vande Waa</td>
<td>HRSA 5 H12 HA24771-03-00</td>
<td>USA Family Specialty Clinic</td>
<td>$361,500.00</td>
</tr>
<tr>
<td>John Vande Waa</td>
<td>HRSA RW-USA-1415</td>
<td>USA Family Specialty Clinic</td>
<td>$104,211.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$2,610,902.00</strong></td>
</tr>
</tbody>
</table>

### MICROBIOLOGY & IMMUNOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jonathon Audia</td>
<td>NIH USA-13597-3</td>
<td>Identifying Novel Inhibitors of the Rickettsia Prowazekii MetAP</td>
<td>$21,739.00</td>
</tr>
</tbody>
</table>
## MICROBIOLOGY & IMMUNOLOGY (Cont’d)

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Brett</td>
<td>DOD HDTRA1-14-C-0023</td>
<td>Antigenically Defined Vaccines for Immunization Against Melioidosis and Glanders</td>
<td>$607,360.00</td>
</tr>
<tr>
<td>Paul Brett</td>
<td>DOD 140151</td>
<td>High-Affinity Monoclonal Antibodies that target Burkholderia Polysaccharides</td>
<td>$33,333.00</td>
</tr>
<tr>
<td>Jarrod Fortwendel</td>
<td>NIH 1 R01 AI106925-01A1</td>
<td>Fungal Ras-mediated invasive growth mechanisms</td>
<td>$302,000.00</td>
</tr>
<tr>
<td>David Wood &amp; Jonathon Audia</td>
<td>NIH 5 R01 AI020384-29</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
<td>$480,567.00</td>
</tr>
<tr>
<td>David Wood</td>
<td>NIH 5 R21 AI103272-02</td>
<td>Gene Expression in Stage-Specific Populations of Rickettsia Prowazekii</td>
<td>$185,625.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$1,630,624.00</strong></td>
</tr>
</tbody>
</table>

## MITCHELL CANCER INSTITUTE (SAMSF Projects Only)

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<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>$2,078.00</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>Thomas Butler</td>
<td>Novartis Pharmaceuticals</td>
<td>The NEMO Trial (NRAS Melanoma and MEK Inhibitor): A Randomized Phase III, Open Label, Multicenter, Two-Arm Study Comparing the Efficacy of MEK 162 Versus Dacarbazine in Patients with Advanced Unresectable or Metastatic NRAS Mutation-Positive Melanoma</td>
<td>$7,750.00</td>
</tr>
<tr>
<td>Thomas Butler</td>
<td>Alpha Oncology</td>
<td>Phase II Randomized Trial Comparing GA101 (Obinutuzumab and Rituximab) in Patients with Previously Untreated Low Tumor Burden Indolent Non-Hodgkin’s Lymphoma and Evaluation of Corrected QT (QTc) Interval and Pharmacokinetics in Patients Participating in GA101</td>
<td>$3,250.00</td>
</tr>
<tr>
<td>David Clarkson</td>
<td>Wyeth Research</td>
<td>A Phase I/II, Open-Label Study of Neratinib (HKI-272) in Combination with Capecitabine in Subjects with solid Tumors and ErbB-2 Positive Metastatic or Locally Advanced Breast Cancer</td>
<td>$8,928.00</td>
</tr>
<tr>
<td>David Clarkson</td>
<td>Bristol Myers Squibb</td>
<td>A Phase 3, Randomized, Open Label Trial of Lenalidomide/Dexamethasone with or without Elotuzumab in Subjects with Previously Untreated Multiple Myeloma</td>
<td>$11,160.00</td>
</tr>
<tr>
<td>Michael Finan</td>
<td>Caris</td>
<td>A Registry of Caris Life Sciences Molecular Intelligence Service (Biomarker Assessment Results) Intended for Correlation with Cancer Clinical Outcomes</td>
<td>6,600.00</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>Carole Norden</td>
<td>Novartis Pharmaceuticals</td>
<td>A Phase III Randomized, Double Blind, Placebo-Controlled Study of BKM120 with Fulvestrant, in Postmenopausal Women with Hormone Receptor-Positive HER2-Negative Locally Advanced or Metastatic Breast Cancer Which Progressed on or after Aromatase Inhibitor Treatment</td>
<td>$20,746.00</td>
</tr>
<tr>
<td>Carole Norden</td>
<td>Genetech</td>
<td>An Observational Cohort Study of Treatment Patterns and Outcomes in Patients with HER2 Positive (HER2+) Metastatic Breast Cancer</td>
<td>$6,551.00</td>
</tr>
<tr>
<td>Carole Norden</td>
<td>Novartis Pharmaceuticals</td>
<td>A Randomized Double-Blind, Placebo-Controlled Study of LEE011 in Combination with Letrozole for the Treatment of Postmenopausal Women with Hormone Receptor Positive, HER2 Negative Advanced Breast Cancer Who Received No Prior Therapy for Advanced Disease</td>
<td>$6,000.00</td>
</tr>
<tr>
<td>Carole Norden</td>
<td>Acceleron</td>
<td>A Phase 2, Randomized, Double-Blind Study of Dalantercept Plus Axitinib Compared to Placebo Plus Axitinib in Patients with Advanced Renal Cell Carcinoma</td>
<td>$6,000.00</td>
</tr>
<tr>
<td>Carole Norden</td>
<td>AstraZeneca</td>
<td>A Phase III, Open Label, Randomised, Controlled, Multi-Centre Study to Assess the Efficacy and Safety of Olaparib Monotherapy Versus Physician's Choice Chemotherapy in the Treatment of Metastatic Breast Cancer in Patients with Germline BRCA1/2 Mutations</td>
<td>$6,000.00</td>
</tr>
</tbody>
</table>
### OBSTETRICS & GYNECOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Lewis</td>
<td>Sequenom</td>
<td>A Clinical Field Study to Evaluate the Clinical Performance of the SEQureDx Trisonomy 21 Test in the Detection of the Relative Quantity of Chromosome 21 in Circulating Cell Free DNA extracted from Maternal Blood Plasma Obtained from Pregnant Women with High Risk Indications for Fetal Chromosome 21 Aneuploidy</td>
<td>$26,688.00</td>
</tr>
<tr>
<td>David Lewis</td>
<td>Sequenom</td>
<td>A Clinical Study to Evaluate the Relative Clinical Specificity Performance of the SEQureDx Trisonomy 21 Test in Pregnant Women at Low Risk for Fetal Chromosome 21 Aneuploidy</td>
<td>$5,250.00</td>
</tr>
<tr>
<td>David Lewis</td>
<td>Novartis Pharmaceuticals</td>
<td>An Adaptive Multicentre, Randomized, Partially Double-Blind, Placebo-Controlled Study to Assess the Safety, PK and PD/Efficacy of RLX030 in Women with Preeclampsia</td>
<td>$20,909.00</td>
</tr>
<tr>
<td>David Lewis</td>
<td>ADPH HRSA C40118004(GC-14-005)</td>
<td>FY 2013 Perinatal Coordinator Grant</td>
<td>$11,500.00</td>
</tr>
<tr>
<td>Craig Sherman</td>
<td>CMMS 1D1CMS331157-02-00</td>
<td>Strong Start for Mothers and Newborns</td>
<td>$288,928.00</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td></td>
<td></td>
<td><strong>$353,275.00</strong></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>Karen Crissinger</td>
<td>Centocor, Inc.</td>
<td>A Multi-Center, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease</td>
<td>$25,086.00</td>
</tr>
<tr>
<td>Karen Crissinger</td>
<td>Takeda Global Research &amp; Development Center</td>
<td>A Phase 2 Open-Label, Multicenter, 4-Week Study to Assess the Safety and Effectiveness of Daily Oral Administration of Dexlansoprazole Delayed-Release Capsules for Relief of Heartburn, in Adolescent Subjects Aged 12 to 17 Years With Symptomatic Non-Erosive Gastroesophageal Reflux Disease</td>
<td>$4,096.00</td>
</tr>
<tr>
<td>Karen Crissinger</td>
<td>Takeda Global Research &amp; Development Center</td>
<td>A Phase 2 Multicenter, 36-Week Study to Assess the Safety and Effectiveness of Daily Oral Administration of Dexlansoprazole Delayed-Release Capsules for Healing of Erosive Esophagitis and Maintenance of Healed Erosive Esophagitis and Relief of Heartburn, in Adolescent Subjects Aged 12 to 17 Years</td>
<td>$40,774.00</td>
</tr>
<tr>
<td>Hamayun Imran</td>
<td>NIH 140476 Cincinnati Children’s Hospital Medical Center</td>
<td>TWiTCH Research Protocol</td>
<td>$29,341.00</td>
</tr>
<tr>
<td>Anne-Marie Kaulfers</td>
<td>ADPH C40118053 (GC-14-076)</td>
<td>Endocrinology Clinic for State Newborn Screening Program</td>
<td>$30,101.00</td>
</tr>
<tr>
<td>Daniel Preud’homme</td>
<td>CDC 140138</td>
<td>Teen Pregency Prevention</td>
<td>$5,500.00</td>
</tr>
</tbody>
</table>
### PEDIATRICS (Cont'd)

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abdul Siddiqui</td>
<td>Mast Therapeutics, Inc.</td>
<td>Evaluation of Purified Poloxamer 188 in Children in Crisis (EPIC): A Phase 3 Randomized, Double-Blind, Placebo-Controlled, Multicenter Clinical Trial of ANX-188 (purified poloxamer 188) Injection in Children with Sickle Cell Disease Experiencing Vaso-Occlusive Crisis</td>
<td>$33,177.00</td>
</tr>
<tr>
<td>Felicia Wilson</td>
<td>NIH 9500010212-01 Childrens Hospital of Philadelphia Subcontract</td>
<td>Children's Oncology Group: COG Chair's Grant</td>
<td>$18,025.00</td>
</tr>
<tr>
<td>Felicia Wilson</td>
<td>ADPH C40118052 (GC-14-075)</td>
<td>Comprehensive Sickle Cell Clinic for State Newborn Screening Program</td>
<td>$22,252.00</td>
</tr>
</tbody>
</table>

Total $208,352.00

### PHARMACOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natalie Bauer</td>
<td>AHA 11SDG 7390037-03</td>
<td>Microparticles as Mediators and Biomarkers of Pulmonary Arterial Hypertension</td>
<td>$77,000.00</td>
</tr>
<tr>
<td>Mark Gillespie, Glenn Wilson, Diego Alvarez</td>
<td>NIH 5 R01 HL113614-03</td>
<td>mtDNA Repair: An Isolated Pharmacologic Target in Acute Lung Injury</td>
<td>$363,825.00</td>
</tr>
<tr>
<td>Mark Gillespie</td>
<td>AHA 13POST14780019-01</td>
<td>Mitochondrial DNA Repair Via Ogg1 Fusion Protein as a Novel Therapeutic Strategy in Multiple Organ Dysfunction Syndrome</td>
<td>$48,304.00</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>Thomas Rich, &amp; Diego Alvarez</td>
<td>NIH 5 P01 HL066299-13-PROJ 2</td>
<td>Lung Endothelial Cell Phenotypes – Project 2*</td>
<td>$324,421.00</td>
</tr>
<tr>
<td>Thomas Rich</td>
<td>NIH 080-18007-S11201-01</td>
<td>G Protein-Coupled Receptor Regulation in Airway Myocytes</td>
<td>$32,670.00</td>
</tr>
<tr>
<td>Victor Solodushko</td>
<td>NIH 130270 Exscien Corporation</td>
<td>Minimal PiggyBac Vectors for Chromatin Integration</td>
<td>$79,101.00</td>
</tr>
<tr>
<td>Troy Stevens, Donna Cioffi, &amp; Mikhail Alexeyev</td>
<td>NIH 5 R37 HL060024-17</td>
<td>Store Operated Ca(^{2+}) Entry: Lung Endothelial Permeability</td>
<td>$360,187.00</td>
</tr>
<tr>
<td>Troy Stevens</td>
<td>NIH 5 P01 HL066299-13 CORE A</td>
<td>Lung Endothelial Cell Phenotypes-Administrative Core (Core A)*</td>
<td>$509,798.00</td>
</tr>
<tr>
<td>Troy Stevens</td>
<td>NIH 5 P01 HL066299-13 PROJ 1</td>
<td>Lung Endothelial Cell Phenotypes-Project 1*</td>
<td>$345,386.00</td>
</tr>
<tr>
<td>Troy Stevens</td>
<td>NIH T098327 Emory University Subcontract</td>
<td>Cellular and Molecular Mechanisms of Acute Lung Injury in Sickle Cell Disease</td>
<td>$145,398.00</td>
</tr>
<tr>
<td>Troy Stevens</td>
<td>AHA 14PRE18470024</td>
<td>ORAI1 is a Critical Determinant of Sodium Permeation Through Endothelial Cells Store-Operated Calcium Entry Channels</td>
<td>$26,000.00</td>
</tr>
<tr>
<td>Troy Stevens</td>
<td>AHA 14POST18080004</td>
<td>Pseudomonas Aeruginosa Invectino Causes a Tauopathy of the Lung</td>
<td>$45,364.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$2,357,454.00</strong></td>
</tr>
</tbody>
</table>

*Center for Lung Biology Program Project
## PHYSIOLOGY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen Ballard</td>
<td>CFF Therapeutics</td>
<td>Mucociliary Clearance Consortium</td>
<td>$108,000.00</td>
</tr>
<tr>
<td></td>
<td>BALLAR07XX0-06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Michael Cohen &amp; Jim Downey</td>
<td>University College London Subcontract</td>
<td>Cangrelor and Protection from Ischemia-Reperfusion Injury</td>
<td>$77,163.00</td>
</tr>
<tr>
<td>Michael Lin</td>
<td>NIH 5 R00 HL102056-05</td>
<td>Endothelial SK3 Channel Modulation of EDHF is Estrogen Regulated</td>
<td>$237,686.00</td>
</tr>
<tr>
<td>Mary Townsley</td>
<td>NIH 2 T32 HL076125-11</td>
<td>Training in Cell Signaling and Lung Pathobiology</td>
<td>$205,941.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>$628,790.00</td>
</tr>
</tbody>
</table>

## SURGERY

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sidney Brevard</td>
<td>BHR Pharma LLC</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Phase III Study to Investigate the Efficacy and Safety of Progesterone in Patients with Severe Traumatic Brain Injury</td>
<td>$8,125.00</td>
</tr>
<tr>
<td>Salil Gulati</td>
<td>Mylan Pharmaceuticals</td>
<td>Prospective Evaluation of the Effects of Topical Therapy with Sulfamylon for 5% Topical Solution of Autograft Healing in Subjects with Thera Injuries Requiring Meshed Autografts: A Comparison to a Historical Control</td>
<td>$16,863.00</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>Salil Gulati</td>
<td>Beeken Biomedical LLC</td>
<td>Comparison of a Hemostatic Textile Dressing to Standard of Care for Control of Bleeding at Skin Graft Donor and Recipient Sites at Time of Surgical Grafting</td>
<td>$12,030.00</td>
</tr>
<tr>
<td>Paul Rider</td>
<td>Excited States LLC</td>
<td>Phase 3 Study of Efficacy and Safety of Topical E-101 Solution to Prevent Incisional Infections Among Colorectal Surgery Patients</td>
<td>$15,515.00</td>
</tr>
<tr>
<td>Paul Rider</td>
<td>Ventrus Biosciences Inc.</td>
<td>A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Parallel-Treatment Group, Multicenter Efficacy and Safety Study of Perianal Application of Diltiazem Hydrochloride Cream 2% cream in Subjects with Anal Fissure</td>
<td>$4,031.00</td>
</tr>
<tr>
<td>Paul Rider</td>
<td>Ruthigen, Inc.</td>
<td>RUT058-60-CP02, A Phase I/II Double Blind, Randomized, Controlled Study to Evaluate the Safety and Efficacy of RUD058-60 Lavage Following Abdominal Surgery as an Adjunctive Therapy to Prophylactic Systemic Antibiotics</td>
<td>$8,000.00</td>
</tr>
<tr>
<td>Jon Simmons</td>
<td>AHA 14CRP19010032</td>
<td>Defining a New Pathogenesis and Treatment for Delayed Trai</td>
<td>$77,000.00</td>
</tr>
<tr>
<td>Jon Simmons</td>
<td>American College of Surgeons 130437</td>
<td>Mitochondrial DNA DAMP’s, A Pharmacological Target in Multiple Organ Dysfunction Syndrome</td>
<td>$45,000.00</td>
</tr>
<tr>
<td>Jon Simmons</td>
<td>America Association of Trauma Surgeons</td>
<td>Mitochondrial DNA DAMP’s, A Pharmacological Target in Associated Ventilator Pneumonia</td>
<td>$50,000.00</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$236,564.00</strong></td>
</tr>
</tbody>
</table>