# TABLE OF CONTENTS

## I. Reports from Departments and Centers
- Biochemistry and Molecular Biology ................................................................. 1
- Comparative Medicine ......................................................................................... 5
- Emergency Medicine ......................................................................................... 7
- Family Medicine ............................................................................................. 13
- Internal Medicine ............................................................................................ 15
- Microbiology and Immunology ......................................................................... 26
- Neurology ......................................................................................................... 32
- Neurosurgery .................................................................................................. 37
- Obstetrics and Gynecology ............................................................................... 39
- Orthopaedic Surgery ....................................................................................... 48
- Pathology .......................................................................................................... 51
- Pediatrics .......................................................................................................... 54
- Pharmacology .................................................................................................. 65
- Physiology and Cell Biology ............................................................................. 73
- Psychiatry ......................................................................................................... 80
- Radiology .......................................................................................................... 88
- Surgery ............................................................................................................... 91
- Biomedical Library .......................................................................................... 100
- Center for Lung Biology .................................................................................. 106
- Center for Healthy Communities ....................................................................... 109
- Center for Strategic Health Innovation ........................................................... 112
- Comprehensive Sickle Cell Center .................................................................... 116

## II. Report from Office of Development and Alumni Relations .......................... 120

## III. Report from Division of Medical Education and Student Affairs ........... 123

## IV. Report from Admissions ........................................................................... 142

## V. Report from Continuing Medical Education ............................................. 145

## VI. Report from Graduate Medical Education ............................................. 146

## VII. Report from Medical Student Summer Research Program .................. 150

## VIII. Report from the Graduate Program in Basic Medical Sciences .......... 155

## IX. Summary of Extramural Support ............................................................ 158
This Annual Report of the College of Medicine documents recent accomplishments in teaching, research, patient care, community service and scholarly contributions from our faculty, students, residents, fellows and staff during the 2014-2015 academic year. Our medical students continue to perform well on National Board Exams and have shown significant improvements in all of their clerkship scores on mini-boards, which bodes well for future class performance on the Step 2 exam. Twenty new clinical faculty members were hired representing several clinical disciplines during this academic year. Each of these appointments will help to strengthen our ability to provide relevant, meaningful educational experiences for our students and other trainees and also enhance the ability of the USA Health System to deliver state-of-the-art clinical care to patients in a variety of health-related areas. Efforts were made to focus the clinical enterprise towards better integration of clinical service lines, quality improvement in specific areas, a greater emphasis on population health management, and improved clinical outcomes. Significant changes occurred in positions of leadership either by design or due to circumstance. Dr. Edward Panacek, a 1981 graduate of the College of Medicine, was recruited after a national search to serve as Professor and Chair of the Department of Emergency Medicine following a distinguished academic career in emergency medicine at the University of California at Davis. Dr. Angus McBryde, Jr, formerly Chair of Orthopaedics at USA and at the Medical University of South Carolina, has returned to USA to serve as Interim Chair of the department while a national search was initiated to select a permanent chair. Dr. Maria Suzy Figarola was appointed permanent Chair of the Department of Radiology after serving as Acting Chair of the department for a nine month period following the retirement of Dr. Jeffrey Brandon. A decision was made to merge the departments of Cell Biology and Neuroscience and Physiology. Dr. Troy Stevens, Professor of Pharmacology and Director of the Center for Lung Biology was appointed the Lenoir Locke Professor and Chair of the newly merged Department of Physiology and Cell Biology. Dr. Ronald D. Franks, who served previously as Vice President of Health Sciences, will serve as Professor and Acting Chair of Psychiatry on a full-time basis. Dr. J. Allan Tucker resigned his position as Chair of the Department of Pathology due to health issues. Drs. J. Elliott Carter and Andrea Kahn have agreed to serve as Acting Chairs of the Department. We look forward to the contributions expected from each of these academic leaders as they seek to implement their individual goals and aspirations. Individually and collectively, our expectation is to continue the tradition of the past forty two years of providing an excellent educational and clinical environment within the College of Medicine to train the next generation of physicians and biomedical scientists.
2014-2015
Summary of Scholarly Activities
Department of Biochemistry & Molecular Biology

1. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Salter EA, Honkanen RE, Wierzbicki A. Modeling the antiferromagnetic Mn\textsuperscript{II}Mn\textsuperscript{II} system within the protein phosphatase-5 catalytic site. J Mol Model. 2015, Jan;21(1):2556.


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS
IV. INVITED PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION


Donna Cioffi: Reviewer: American Heart Association / Reviewer (Lung); NIH / Reviewer (Special Emphasis Panel); Journal Peer Review: Antioxidants and Redox Signaling; Microvascular Research; Pulmonary Pharmacology and Therapeutics; American Physiological Society – Nominating Committee Co-Chair (2014-2017) and Respiration Section Steering Committee; Poster judge: Experimental Biology Meeting, March 2015.


Richard Honkanen: Review Group Panel Member, NIH ZRG1 BST-J51, NIH Roadmap Initiative (Assay Development for High Throughput Molecular Screening); NIH ZDK1GRB-7 Ad Hoc Review group member for R13 grant applications; Editorial Boards: The Open Enzyme Inhibition Journal, JBC, JCB, Nature, PNAS.


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

The members of the faculty contribute significantly to the systems-based medical curriculum. Members of the faculty deliver case-based lectures, self-directed learning lessons as well as team-based learning lessons in the Foundations of Human Health module, Digestion and Gastrointestinal and Cardiovascular modules. Biochemistry faculty delivered significant content on nutritional biochemistry and metabolism in Digestive module, which rated highly by the second year students. All faculty members are established contributors to multiple IDL graduate courses in several of the tracks (Lung Biology and Cell and Molecular Biology). Nine graduate students representing Lung Biology and the Cell and Molecular Biology tracks of the graduate program were mentored by department faculty members. The department also contributed to biomedical science education by hosting freshman and sophomore medical students and an undergraduate researcher participating in summer research programs.

Research activity in the 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), W. Gerthoffer (miRNAs as therapeutic targets in asthma, biomarkers of atherosclerosis), W. Richter (phosphodiesterases) and R. Balczon (tauopathies) are supported by NIH grants.

New grant applications from every faculty member have either been submitted, or are in development. The department continued a review process for grant submission in which the faculty serve 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 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 all members contribute regularly as journal reviewers. Despite the restrictive funding environment scholarship is being maintained at a healthy level resulting in a positive impact on our respective scientific fields.

Several faculty members and students were honored by receiving prestigious awards and fellowships. Drs. William Gerthoffer and Richard Honkanen were honored by the College of Medicine class of 2015 with Red Sash awards for teaching performance.
2014-2015
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. In addition, preparations were made for support of the ABSL-3 suite to enable animal research using select agents in the Laboratory of Infectious Disease (LID). The LID was certified by the Center for Disease Control (CDC) and became fully operational in 2015.

The University Biological Resources, including the LID, underwent a site visit by AAALAC International in November 2014 and received notification in March 2015 that the program received full accreditation for three years. Furthermore, the facility underwent a favorable inspection by the United States Department of Agriculture in April 2015 with no items of non-compliance noted.

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 university with formal participation with research groups in the Mitchell Cancer Institute, the College of Engineering, and the Departments of Biochemistry and Molecular Biology, Physiology and Cell Biology, and Microbiology and Immunology within the College of Medicine. She serves as a co-investigator on a project spearheaded by Drs. Brett and Burtnick to develop a vaccine against *Burkholderia pseudomallei*. Dr. Schuler’s contribution to these activities was rewarded with a joint appointment at the Associate Professor level in the Department of Microbiology and Immunology. 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, Co-Director of the Endocrinology and Reproduction Module, and chairs the MD with Research Honors Committee and the University’s Committee on Standards in the Conduct of Research.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Panacek EA. Invited speaker. Sepsis: update for emergency medicine. 38th Annual Emergency Medicine in Yosemite; 2015 Jan 16; Yosemite, CA.

Panacek EA. Invited speaker. Recent literature important for emergency medicine. 38th Annual Emergency Medicine in Yosemite; 2015 Jan 17; Yosemite, CA.


Panacek EA. Invited speaker. Giving research grant presentations. Emergency Medicine Foundation and American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Apr 9; Dallas, TX.

Panacek EA. Invited speaker. Writing your study manuscript. Emergency Medicine Foundation and American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Apr 9; Dallas, TX.


Panacek EA. Invited speaker. Epidemiology 3 (OR and RR). Emergency Medicine Foundation and American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Apr 10; Dallas, TX.


Panacek EA. Invited speaker. Getting your manuscript published. Emergency Medicine Foundation and American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Apr 11; Dallas, TX.
Panacek EA. Invited speaker. Performing manuscript reviews. Emergency Medicine Foundation and American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Apr 11; Dallas, TX.


Panacek EA. Invited speaker. Potpourri of recent literature. University of South Alabama College of Medicine Alumni Association Weekend; 2015 Jun 5; Orange Beach, AL.

Panacek EA. Invited speaker. A lasting legacy: developing a class endowment. University of South Alabama College of Medicine Alumni Association Weekend; 2015 Jun 6; Orange Beach, AL.

Panacek EA. Invited speaker. Syncope evaluation in the ED. North West Anesthesia Seminars Emergency Medicine Continuing Medical Education Conference; 2015 Jul 6; Whistler, British Colombia, Canada.


Sternberg ML. Invited speaker. Pneumo orbit hepatitis B associate polyrtestis nodosum induced acalalous choleystiti. Regional American College of Emergency Physicians; 2015 Jun 10; Destin, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Edward A. Panacek serves in the following positions: Member of the Society of Academic Emergency Medicine; member of American College of Emergency Physician for Alabama and California; American College of Chest Physician; American Academy of Emergency Medicine; Director, EMF Emergency Medicine Basic Research Skills Course (EMBRS); Moderator, Research Forum Research Abstract Session; Member, EMF Advisory Committee on Public Relations; Senior Oral Examiner and Oral Case Reviewer and Developer, American Board of Emergency Medicine; Editorial Board member, Journal Peer Review; Technical Advisor, writer and actor, “Untold Stories from the ER” (TLC, cable)

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

Frank S. Pettyjohn serves in the following positions: 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 (Gulf Coast) 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, during this year period, was focused on major changes in departmental leadership. A search for a new Chair of Emergency Medicine was ongoing and Dr. Panacek assumed the Chairmanship as of May 1st. As a result, faculty recruitment and most academic program development was on hold pending this transition. Because the prior Chair had been in the position for over 20 years, this represented major potential changes in philosophy, priorities and administrative style. With the goal of continuing excellent clinical care in the ED, the initial focus was on
maintaining a stable core faculty and staff in the ED; who would also provide quality bedside teaching for medical students, residents and other rotators.

The goal of acquiring a full Residency Program in Emergency Medicine remains a high priority for the future. It is felt an EM residency would be an ideal fit for the institution, both the COM and the USAHS. It would reflect current popularity of the specialty nationally and complement other existing residencies while also grossly enhancing medical student education.

**EDUCATION:** The Faculty of the Department of Emergency Medicine has always, and continues to emphasize quality bedside teaching. The 4th year AI and Ambulatory electives in the ED remain among the most sought after options in the College of Medicine. This reflected in the fact that, once again, the ED won the award as the best AI rotation from the graduating class of 2015.

Michael Sternberg, M.D. directs the teaching activities for the third- and fourth-year medical student rotations, electives and the Acting Intern Program.

Frank S. Pettyjohn, M.D. continues to serve as Medical Director for the EMS Training Program. Several EM faculty participate in the PA and NP training programs and Dr. Sternberg won an outstanding teaching award from them this year.

**FACULTY DEVELOPMENT:** Recruiting activities were largely on-hold pending confirmation of the new EM Chair, but will re-continue in the next year. A critical mass of EM trained and boarded faculty will be needed to support an Emergency Medicine Residency application, and will be the highest goal in the next year. Participation by faculty in national, regional and local activities that enhance faculty development and expand the visibility of an academic EM program will be emphasized.

**CLINICAL FACILITIES:** During the 2014-2015 program year, the Department of Emergency Medicine continued to support the operations of the University of South Alabama Medical Center, including the Level I Trauma Center, Burn Center, Stroke Center, STEMI program, as well as the Emergency Department. However, the ED physical plant is very outdated and creates major challenges in providing quality and safe care for a high acuity ED patient population.

Coordination of clinical care in the ED is complex and involves close alignment of services with the Level I Trauma Team, the Stroke team, Children’s and Women’s Evaluation Center, the Department of Obstetrics/Gynecology, and several other services to optimize EM care throughout the system and region.

**RESEARCH:** During this past year, the focus has been on the leadership transition and maintaining high quality clinical care in the ED. Research activities have not been the focus, but are clearly a major goal for the future in a revitalized academic Department of EM. The Department of Emergency Medicine has maintained the Division of Clinical Research, and Dr. Pettyjohn has transitioned to an important role in those operations.
The primary clinical research site is the Moorer Building which is located on the University of South Alabama Medical Center Campus. Current projects focus on two NIH grant studies that involve anti-inflammatory trials in coronary artery disease and epidemiologic studies of BP oil spill exposure personnel. An increase in industry funded clinical trials is the goal for the future. The existing clinical research program and infrastructure has an important potential to grossly expand research activities in the Department of Emergency Medicine in the future.

*NB: Dr. Panacek has been in the position of Chair only since May, 2015. Therefore most of this report covers a period under the prior Chair. For the same reason, many of Dr. Panacek’s reported activities occurred during this cycle, but before assuming the Chair position.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

   Bogar C, Bogar C, Harpen M, Motley C. Invited speakers. Student reflections on preclinical ambulatory exposure in underserved clinics. Society of Teachers of Family Medicine Conference on Medical Student Education; 2015 Feb 6; Atlanta, GA.

   Duffy L. Invited speaker. Electronic medical records: what they do for (and to) you. University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 17; Daphne, AL.


   Molokhia E. Invited speaker. Medication errors: developing a process to improve patient safety in an academic health center. DUPHAT; 2015 Mar 9; Dubai, United Arab Emirates.

   Molokhia EA. Invited speaker. The PCMH (Patient Centered Medical Home). Medical Alumni Reunion Weekend; 2015 Jun 6; Orange Beach, AL.

   Perkins A. Invited speaker. Obamacare! League of Women Voters Forum; 2014 Oct 14; Fairhope, AL.
Perkins A, Molokhia E. Invited speakers. This is (health policy) jeopardy!!! American Academy of Family Physicians National Conference of Residents and Medical Students; 2015 Jul 30; Kansas City, MO.

V. NATIONAL PROFESSIONAL RECOGNITION


Gerald Liu: Grant Reviewer, Health Resources and Services Administration Title VII, Section 747, Primary Care Training grants; Grant Reviewer, Patient Centered Outcomes Research Institute (PCORI); Peer Reviewer, Journal of Family Practice.

Ehab Molokhia: Member, United States Medical Licensing Examination (USMLE) Step 2 Clinical Skills (CS) Test Material Development Committee (TMDC).

R. Allen Perkins: Chairman, Advisory Committee on Training in Primary Care Medicine and Dentistry, U. S. Health Resources and Services Administration; Reviewer, Family Medicine, American Family Physician, Journal of Family Medicine; Member and Past 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. Ashleigh Butts-Wilkerson joined the faculty in August upon graduation from the Family Medicine residency program. She served as Co-Chief Resident in her final year of residency. Dr. Gerald Liu resigned in September and will relocate to Boston to continue his medical career in private practice.

Through the leadership of Dr. Tangela Atkinson, the Family Medicine Center was granted Level 2 recognition on behalf of the National Committee for Quality Assurance with designation as a NCQA Patient-Centered Medical Home (PCMH). The Family Medicine Center is one of four practices in the Mobile area – the only one within the university system – to achieve this distinction.

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

Dr. Ehab Molokhia, Dr. Carol Motley, and Dr. Allen Perkins were recognized by the College of Medicine Class of 2015 as Distinguished Faculty.

Dr. Michael Linder served as Clinical Co-Director of the Musculoskeletal Module for the USA College of Medicine Student Curriculum in the first and second years.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Epstein MS, Cash BD, Shah SM. 24-hour results from a placebo-controlled trial, to evaluate a novel peppermint oil delivery system, targeting release in the small intestine.

Gadde S, Omar M, Omar B. Comparison of pulsatile stress in elderly versus young hypertensive patients. Louisiana Chapter of the American College of Cardiology and American Society of Hypertension Gulf Central Chapter Joint Meeting; 2014 Nov 21-22; New Orleans, LA. p. 3. Abstract no. 4.


### III. PUBLISHED BOOKS

### IV. INVITED PRESENTATIONS

Cash BD. Invited speaker. Epidemiology and statistics for the GI certification examination. William Steinberg GI Board Review; 2015 Sep 29; Arlington, VA.
Cash BD. Invited speaker. Colon question potpourri. William Steinberg GI Board Review; 2015 Sep 29; Arlington, VA.

Cash BD. Invited speaker. Esophageal motility disorders. Alabama Gastroenterological Society Annual Conference; 2015 Jun 14; Point Clear, AL.

Cash BD. Invited speaker. Evidence based medicine: studying the validity of diagnostic test and therapeutic trials. University of South Alabama Annual Medical Alumni Association Meeting; 2015 Jul 6; Orange Beach, AL.

Cash BD. Invited speaker. Advances in functional gastrointestinal disorders. University of South Alabama Annual Medical Alumni Association Meeting; 2015 Jul 5; Orange Beach, AL.

Cash BD. Invited speaker. Small bowel enteroscopy and endoscopic approach to GI tumors. 15th Annual Minimally Invasive Surgery Symposium 2015; 2015 Feb 26; Las Vegas, NV.

Cash BD. Invited speaker. Gastroenterologist approach to GERD. 15th Annual Minimally Invasive Surgery Symposium 2015; 2015 Feb 26; Las Vegas, NV.

Cash BD. Invited speaker. Gastroenterologist approach to Barrett’s esophagus. 15th Annual Minimally Invasive Surgery Symposium 2015; 2015 Feb 26; Las Vegas, NV.

Cash BD. Invited speaker. What’s new in colonoscopy preparations. American College of Gastroenterology Annual Scientific Meeting; 2014 Oct 22; Philadelphia, PA.

Di Palma JA. Invited speaker. Small intestinal bacterial overgrowth. Alabama Gastroenterology Society Annual Conference; 2015 Jun 13; Point Clear, AL.


Di Palma JA. Invited speaker. Prep them right. Arkansas-Oklahoma Endoscopic Society; 2015 Jun 27; Dallas, TX.

Gadde S, Omar B. Invited speakers. Pulse pressure and pulsatile stress age differences in hypertensive subjects. Alabama Chapter of the American College of Cardiology 2015 Winter Conference; 2015 Jan 17; Birmingham, AL.
Haynes J Jr. Invited speaker. A primary care physician’s guide to preventative and acute management of adults with sickle cell disease. American College of Physicians, Alabama Chapter Conference; 2015 Jun 5; Point Clear, AL.

Haynes J Jr. Invited speaker. Sickle cell disease can affect you!!! Edith Mitchell Health Initiatives Scholarship Gala; 2015 Apr 10; Mobile, AL.

Haynes J Jr. Invited speaker. Hospital management of sickle cell pain crisis. Sickle Cell Disease Foundation, Auburn University Montgomery; 2014 Nov 18; Montgomery, AL.

Haynes J Jr. Invited speaker. PCP guide to caring for patients with sickle cell disease. Physician Assistant Studies Program; 2014 Oct 15; Mobile, AL.

Herrera JL. Invited speaker. HCV: epidemiology, screening and natural history. American College of Gastroenterology Hepatitis School; 2015 Jan 23; Las Vegas, NV.

Herrera JL. Invited speaker. HCV/HIV co-infection. American College of Gastroenterology Hepatitis School; 2015 Jan 23; Las Vegas, NV.

Herrera JL. Invited speaker. HCV treatment: assessing the patient prior to treatment. How will this change in the future? American College of Gastroenterology Hepatitis School; 2015 Jan 23; Las Vegas, NV.


Massey C. Invited speaker. Improving patient outcomes - through evidence & collaboration. Medical Association of Alabama Annual Session; 2015 Apr 17; Montgomery, AL.


Tyler, S. Invited speaker HIV: A Personal Experience. Mobile Infirmary Hospital Grand Rounds; 2015 Jun 21; Mobile, AL.

Ul Haq E, Omar B. Invited speakers. Variations in blood pressure control by gender and race in a cardiology clinic. Alabama Chapter of the American College of Cardiology 2015 Winter Conference. 2015 Jan 17; Birmingham, AL.

Wande Waa J., Invited speaker. Epidemiology of dengue. Odyssey USA Program; 2015 Jun 26; Mobile, AL.
Wande Waa J., Invited speaker. Epidemiology of malaria. Odyssey USA Program; 2015 Jul 17; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Brooks D. Cash, American College of Gastroenterology, Chair, Maintenance of Certification Committee and Chair, Publications Committee; Course Director, Midwest Postgraduate Course, and Course Director and Moderator, Recertification Course, American College of Gastroenterology; Castle Connolly Top Doctors 2015; Laureate Award, Navy Chapter, American College of Physicians 2014; Associate Editor, Colon Section, American Journal of Gastroenterology; Section Editor, Colon Section, Current Gastroenterology Reports; Associate Editor, ACG Universe; Course Director and Moderator, Recertification Course, American College of Gastroenterology Annual Meeting 2014 Oct 19; Philadelphia, PA.


Johnson Haynes Jr: Listed: America’s Top Doctors; Best Doctors in America; 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); Data and Safety Monitoring Board (DSMB) for the Clinical Trials Consortium; PhenX Sickle Cell Disease Work Group 1: Cardiovascular, Pulmonary and Renal Recruitment – PhenX Consensus Measures for Phenotypes and eXposures

Jorge L. Herrera, Best Doctor’s in America, 2008-2015; Reviewer for the American Journal of Gastroenterology; Reviewer for Journal of Clinical Gastroenterology; Reviewer for Southern Medical Journal; Reviewer for Journal of Clinical Gastroenterology and Hepatology; Reviewer for Hepatology; Reviewer for Alimentary Pharmacology and Therapeutics, Selected as faculty for "Ask The Expert", the American College of Gastroenterology Hepatitis Circle, Selected as Fellow of the American Association for the Study of Liver Disease.

Olivette T. Hundley, Served on Alabama Chapter Governor’s Council. Clinical vignette abstract reviewer for the medical student poster competition at the ACP State Meeting. Clinical vignette abstract reviewer for the resident poster competition at the ACP State Meeting. Judged posters for the medical student poster competition, Alabama State ACP meeting. Judged posters for the resident poster competition, Alabama State ACP meeting.
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 16 consecutive years the Internal Medicine Clerkship has been recognized as the best clerkship for third year medical students. The Class of 2015 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 2015 again selected a faculty member as the best teacher in the clinical years (Dr. T.J. Hundley). 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 during 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 internal medicine residents internal medicine-pediatric residents, and fellows in Gastrointestinal Diseases, Cardiovascular Disease, and Pulmonary And Critical Care. The Grand Rounds Series is well received and is an important educational venue 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 peer reviewed 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 colonoscopy. GI continues to involve its fellows, internal medicine residents and medical students in research efforts with several of these trainees presenting their work at regional and national meetings.
Cardiology has several multi-center trials underway and has partnered with Dr. William Gerthoffer, Chair of Biochemistry, in a translational project funded through the Center for Healthy Communities P-20 Grant. This pivotal award examines the role of a protein, HSP27, as a unique marker of atherosclerosis and its potential contribution to health disparities seen in cardiovascular disease in African-American populations. The Division of Pulmonary and Critical Care Medicine has continued its partnership with the Center for Lung Biology and has initiated clinical, basic and translational studies in pulmonary hypertension. Infectious disease continues its efforts in providing care of the HIV patient through a grant funded by the Health Resources and Services Administration.

Service

The department continues to deliver excellent clinical service. Dr. Clara Massey, Chief of the Division of Cardiology is leading efforts in Performance Improvement at the University of South Alabama Medical Center. The Division of Gastroenterology has continued to grow its services by implementing advance endoscopy procedures in practice. These advancements have enhanced partnerships with the Mitchell Cancer Institute and are able to address ablations of GI tumors and Barrett’s esophagus through endoscope procedures.

Departmental faculty continue to serve on editorial boards as journal reviewers, on advisory boards, and on grant review panels. The faculty have contributed significant contributions to the University and the Greater Mobile Community.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS


variation of *Burkholderia pseudomallei* is associated with antigenic variation and O-polysaccharide modification. Infect Immun. 2015 May;83(5):2127-38.

II. PUBLISHED ABSTRACTS


**Ferretti AP, Barrington RA.** A novel rodent model for autoimmune pulmonary alveolar proteinosis. Am J Respir Crit Care Med. 2015;191:A4348.


**Kikendall N, Petersen H, Burtnick MN, Morici LA.** Selective enrichment of an outer membrane vesicle vaccine to enhance protection against *Burkholderia pseudomallei*. American Society for Microbiology Biodefense and Emerging Diseases Research Meeting. 2015 Feb 9-11; Washington, DC. p. 73. Abstract no. 214(H).

Norton TS, Lovingood RV, Al Abdallah Q, Fortwendel JR. The *Aspergillus fumigatus* farnesyltransferase β-subunit,Ram1, regulates Ras protein localization, conidial viability, and antifungal susceptibility. 12th International Aspergillus Meeting. 2015 Mar 16-17; Pacific Grove, CA. Abstract no. 89.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Barrington RA. Invited speaker. Tracking influenza-mediated immune responses in the lung. 2015 University of South Alabama Office of Research and Economic Development Research Forum; 2015 May 13; Mobile, AL.

Barrington RA. Invited speaker. Current efforts for Lions/USA Eye Research fundraising and community outreach. Lions Club International – District 34C Meeting; 2015 Jan 20; Mobile, AL.

Barrington RA. Invited speaker. 25 years of eye research at the Lions/USA Eye Research Institute. Lions/USA Eye Research Committee Meeting; 2014 Nov 5; Mobile, AL.

Brett PJ. Invited speaker. Antigenically defined vaccines for immunization against melioidosis. University of Texas Medical Branch; 2014 Dec 9; Galveston, TX.

Brett PJ. Invited speaker. Importance of adjuvants in the development of melioidosis subunit vaccine formulations. European Melioidosis Congress; 2015 Mar 27; Cambridge, UK.
Brett PJ. Invited speaker. Antigenically defined vaccines for immunization against melioidosis and glanders. American Society for Microbiology Biodefense and Emerging Diseases Research Meeting; 2015 Feb 11; Washington, DC.


Ferretti AP, Barrington RA. Invited speakers. Novel rodent model for autoimmune pulmonary alveolar proteinosis. Immunology 2015, American Association of Immunologists Annual Meeting; 2015 May 12; New Orleans, LA.

Fortwendel JR. Invited speaker. Morphogenesis and virulence: fungal-specific aspects of a conserved eukaryotic pathway. Dartmouth College, Giesel School of Medicine, Department of Microbiology and Immunology; 2014 Nov 11; Hanover, NH.


Wood DO. Invited speaker. Against the odds: genetic manipulation of obligate intracellular bacteria. 89th Annual Meeting of the Southeastern Branch of the Entomological Society of America; 2015 Mar 18; Biloxi, MS.

Wood DO. Invited speaker. The obligate intracellular pathogen Rickettsia prowazekii: small genome with a big attitude. Department of Biological Sciences, University of Southern Mississippi; 2015 Apr 17; Hattiesburg, MS.

Wood DO. Invited speaker. Epidemic typhus and the Laboratory of Infectious Diseases. Odyssey Class, University of South Alabama; 2015 Jul 10; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Jonathon P. Audia: Review Editor, Nature Frontiers, Frontiers in Cellular and Infection Microbiology; Ad Hoc Reviewer, Clinica Chimica Acta, PLoS ONE, BMC Microbiology; Ad Hoc Grant Review, National Institutes of Health/National Institute of Allergy and Infectious Diseases R13/U13 Study Section ZAI1 TT-M (J1) 1 NIH Support for Conferences and Scientific Meetings.

Robert A. Barrington: Review Editor, Frontiers in B Cell Biology; Ad Hoc Reviewer, Cytometry, European Journal of Immunology, Journal of Immunology, Journal of DNA and Cell Biology; Study Section American Heart Association Immunology BSc 4.

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

After five years of planning, construction, testing, and inspections, the Laboratory of Infectious Diseases (LID) became fully operational on February 2, 2015 with laboratories functioning at Biosafety Level 2 (BSL-2) and Biosafety Level 3 (BSL-3) containment. Currently, Drs. Audia, Brett, Burtnick, and Wood are conducting funded projects that require BSL-3 containment. Following a Centers for Disease Control (CDC) inspection April 21-24, 2015, the LID’s Select Agent License was extended for three years. The LID was funded by an ARRA NIH C06 grant of $14,506,327.

Despite the decreases in extramural funding levels, departmental faculty members have competed successfully for additional research funds. Dr. Audia and his collaborator, Dr. Alvarez in the Department of Pharmacology, received a five-year, multi-PI, NIH grant...
entitled “Caspase-1, the microvascular endothelium, and infection”. Dr. Barrington received a two-year award from the American Lung Association to support his studies on the first mouse model of autoimmune pulmonary alveolar proteinosis. Dr. Barrington also received support from the Lions Club International. Dr. Brett and Dr. Burtnick received Phase II funding for an NIH SBIR award targeting high-affinity monoclonal antibodies against *Burkholderia* polysaccharide and they continued their DTRA-funded work on vaccines against melioidosis and glanders. Finally, Dr. Fortwendel and Dr. Wood continued their NIH funded studies on pathogenic mechanisms of *Aspergillus fumigatus* and *Rickettsia prowazekii*, respectively.

Teaching commitments to medical students and to graduate students remain a high priority for departmental faculty. Dr. Foster continued his outstanding service to the Department as director of the medical student HHD module. All departmental faculty participate in this module. In addition, due to the importance of infectious disease and immune surveillance in all modules, departmental faculty can be found participating in these modules as well. Dr. Brett, as director of the Infectious Disease and Host Defense Track (IDHD), is working to promote the IDHD as a premier graduate research track. Two students are currently pursuing their Ph.D. degree in this track and two advanced courses, Microbial Pathogenesis (Course Director Dr. Fortwendel) and Advanced Immunology (Course Director Dr. Barrington) have been developed. Advanced Immunology was taught for the first time during the summer semester 2015. Finally, the Department continues to conduct a bimonthly journal club and research forum.

Several students whose faculty mentors are in the Department of Microbiology and Immunology received notable recognition this year. Andrew Ferretti (Dr. Barrington) received the Thermo/Fisher Trainee Achievement Award and was selected to give an oral workshop presentation at the American Association of Immunologists Annual Meeting. Tiffany Norton (Dr. Fortwendel) received several honors including a Travel Grant for the American Society for Microbiology (ASM) 2015 General Meeting, Outstanding Student Poster Award for the ASM 2015 meeting, and the Best Poster Award at the 12th Annual International *Aspergillus* Conference in 2015.

Faculty members Dr. Brett and Dr. Burtnick received the honor of having one of their publications selected as a Spotlight Article in *Infection and Immunity*, and their abstract submitted to the 2015 General Meeting of the American Society for Microbiology was highlighted in the ASM Press Room.

The Department hosted two Distinguished Scientist speakers. David Dean, Ph.D., Professor, University of Rochester School of Medicine, presented a seminar entitled “Gene Therapy: Translating Basic Science to the ICU”. Roman Ganta, Ph.D., Professor, Kansas State University, presented a seminar entitled “*Ehrlichia chaffeensis* Mutagenesis to Identify Genes Critical for Persistent Infection and Vaccine Development”.

Two departmental administrative personnel with many years of dedicated service to the Department of Microbiology and Immunology, Ms. Patricia Couling and Ms. Anna Butler, retired this year.
I. PUBLISHED JOURNAL ARTICLE, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


### III. PUBLISHED BOOKS

### IV. INVITED PRESENTATIONS

Bassam BA. Invited speaker. Motor neuron disease; variant & mimics. 61st Annual Meeting of the American Association of Neuromuscular & Electrodiagnostic Medicine; 2014 Oct 30; Savannah, GA.

Bassam BA. Invited speaker. Nerve conduction pitfalls. 61st Annual Meeting of the American Association of Neuromuscular & Electrodiagnostic Medicine; 2014 Nov 1; Savannah, GA.

Bassam BA. Invited speaker. Motor neuron disease variants and mimics. 42nd Annual Meeting of the Southern Clinical Neurological Society; 2015 Jan 22; Naples, FL.

Bassam BA. Invited speaker. Nerve conduction study pitfall. Alabama Society of Electroneurodiagnostic Technologists; 2015 Mar 3; Orange Beach, AL.
Bassam BA. Invited speaker. Intravenous immune globulin (IVlg) neurological indications, update, contraindications, and complications. 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; Mobile, AL.

Cordina S. Invited speaker. When is a patient eligible for intravascular neurointervention? 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; Mobile, AL.


Dees D. Invited speaker. Deep brain stimulation for Parkinson’s disease and essential tremor. Neurosurgical Treatment Options for General Neurologist; 2015 Jan 19; Biloxi, MS.

Dees D. Invited speaker. Outpatient management of restless leg syndrome and deep brain stimulation for treatment of refractory Parkinson’s disease and essential tremor. 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; Mobile, AL.

Dees D. Invited speaker. Discussion on the treatment of Parkinson’s disease and other movement disorders. 1st Annual Gulf Coast Movement Disorders Symposium. 2015 May 8; New Orleans, LA.

Dees, D. Invited speaker. Treatment of neurogenic orthostatic hypotension. Lundbeck Pharmaceutical Advisory Committee, Eastern United States Region; 2015 May 15; Newark, NJ.

Minto E. Invited speaker. Multiple sclerosis: a simple message about a complicated disease. University of South Alabama Med School Café; 2014 Dec 11; Mobile, AL.


Minto E. Invited speaker. Treatment for MS – when and why to consider the oral agents. 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; Mobile, AL.

Naritoku D. Invited speaker. Diagnosing the patient with epilepsy. 2014 J. Kiffin Penry Epilepsy Mini Fellowship Program, Wake Forest University; 2014 Oct 9; Winston-Salem, NC.


Naritoku D. Invited speaker. Genetics of epilepsy. 2014 J. Kiffin Penry Epilepsy Mini Fellowship Program, Wake Forest University; 2014 Oct 9; Winston-Salem, NC.
Naritoku D. Invited speaker. Experimental models of epilepsy. 2014 J. Kiffin Penry Epilepsy Mini Fellowship Program, Wake Forest University; 2014 Oct 10; Winston-Salem, NC.

Naritoku D. Invited speaker. Identification and management of non-epileptic seizures. 2014 J. Kiffin Penry Epilepsy Mini Fellowship Program, Wake Forest University; 2014 Oct 10; Winston-Salem, NC.

Naritoku D. Invited speaker. Latest AEDs. 2014 J. Kiffin Penry Epilepsy Mini Fellowship Program, Wake Forest University; 2014 Oct 9; Winston-Salem, NC.


Naritoku D. Invited speaker. Marijuana and epilepsy – seeing the data through the haze. 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; Mobile, AL.

Ochoa J. Invited speaker. What is the role of neurosurgical intervention in the treatment of epilepsy? 2nd Annual University of South Alabama Neuroscience Spring Symposium; 2015 May 1; 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.

**Oliver 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 stimulation in parkinsonian primates”
Daniel D. Dees: Member, American Academy of Neurology; Member, Movement Disorders Society, American Neurologic Association, Southern Pediatric Neurology 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: Member, American Academy of Neurology; Board of Directors, Vice President Executive Committee, Medical Society of Mobile County, Member, Medical Association of the State of Alabama.

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 Neurology and Therapeutics; Member, American Society of 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, and has integrated programs with Department of Neurosurgery to advance the development of a Neuroscience Center. Services for neurorehabilitation, epilepsy, movement disorders, stroke and neuromuscular diseases have greatly expanded. The department has been successful in its long range plan to achieve payor mix diversity.

The Parkinson and dysautonomia research groups have presented two abstracts at the American Neurological Association related to nonlinear changes in heart rate variability in Parkinson patients. The autonomic lab was a gift from Ms. Eran Adams and has helped foster autonomic research at USA immensely.
2014-2015
Summary of Scholarly Activities
Department of Neurosurgery

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, Springhill Hospital 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

The department’s teaching activities continue with the weekly Neuroradiology meeting, participation in the second year Neuroscience course, and clinical electives in both the IIIrd 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 broaden their
neuroscience experience. The past year the department mentored two students who successfully entered competitive neurosurgical residencies.

We have added a third mid-level provider who 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. This year Dr. Martino was a Co-investigator on the NCAA Mind Matters Educational Challenge grant. The grant submission was one of six national finalists and awarded $100,000. They are currently competing for further funding for this project.

The Deep Brain Stimulation Program 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. Dr. William Scott completed both neurosurgical residency and fellowship in pediatric neurosurgery from the University of Texas Southwestern in Dallas. He has continued the growth of the pediatric neurosurgery service and adult neurosurgical service at the USA Medical Center. He is extremely active clinically.

We now occupy new academic offices on the 10th Floor of the Medical Center. We also occupied new clinical offices at Springhill Hospital, which has increased our referrals from Springhill Hospital emergency room.
I. Published Journal Articles, Book Chapters, and Patents


II. PUBLISHED ABSTRACTS


Rizk B. Septum surgery for IVF. Pre-Congress Course Two. Fertility Surgery. 6th International Congress of the Jordanian Society for Fertility and Genetics; 2015 Apr 22; Amman, Jordan. p. 50.


Scalici JM, Arapovic S, Saks E, Atkins KA, Petroni G, Duska L, Slack-Davis JK. Peritoneal vascular cell adhesion molecule 1 (VCAM-1) is a marker of response to therapy and overall survival in epithelial ovarian cancer (EOC) Gynecol Oncol. 2015 Apr; 137(Suppl 1):112-3. Abstract no. 276.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Baker SL. Invited speaker. Update on fetal growth restriction. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 16; Daphne, AL.

Brocato B. Invited speaker. Advanced reproductive age. University of South Alabama Med School Café; 2014 Nov 21; Mobile, AL.

Brocato B. Invited speaker. Management of multiple gestation. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 17; Daphne, AL.

Finan M. Invited speaker. Personalized targeted treatment for gynecologic cancers. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 16; Daphne, AL.

Holliday N. Invited speaker. Gastrointestinal complications in pregnancy. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 16; Daphne, AL.


Lewis DF. Invited speaker. Update on preeclampsia – new guidelines. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 16; Daphne, AL.

Lewis DF. Invited speaker. Cervical anatomy/length/PTD risks. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 17; Daphne, AL.

Rizk B. Invited speaker. Management of OHSS. American Society for Reproductive Medicine 70th Annual Meeting; 2014 Oct 22; Honolulu, HI.
Rizk B. Invited speaker. Classification, pathophysiology, and prediction of OHSS. American Society for Reproductive Medicine 70th Annual Meeting; 2014 Oct 22; Honolulu, HI.


Rizk B. Invited speaker. Role of imaging to improve fertility surgery outcome. 6th International Congress of the Jordanian Society for Fertility and Genetics; 2015 Apr 22; Amman, Jordan.

Rizk B. Invited speaker. Uterine septum: evaluation and surgical management prior to IVF. 6th International Congress of the Jordanian Society for Fertility and Genetics; 2015 Apr 22; Amman, Jordan.


Rizk B. Invited speaker. OHSS diagnosis and treatment and can it be avoided. Cleveland Clinic Center for Reproductive Medicine 2015 Summer Internship; 2015 Jun 22; Cleveland, OH.

Rizk B. Invited speaker. Endometriosis – associated infertility. Cleveland Clinic Center for Reproductive Medicine 2015 Summer Internship; 2015 Jun 23; Cleveland, OH.

Rizk B. Invited speaker. Assisted reproductive techniques. Cleveland Clinic Center for Reproductive Medicine 2015 Summer Internship; 2015 Jun 23; Cleveland, OH.

Rizk B. Invited speaker. Ovarian hyperstimulation syndrome. Cleveland Clinic Center for Reproductive Medicine 2015 Summer Internship; 2015 Jun 23; Cleveland, OH.

Rizk B. Invited speaker. Tips on getting into US medical schools and residency programs. Cleveland Clinic Center for Reproductive Medicine 2015 Summer Internship; 2015 Jun 23; Cleveland, OH.

Varner S. Invited speaker. Dyspareunia. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 17; Daphne, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Susan Baker is a member of the Alabama Perinatal Excellence Collaborative leadership team.

Dr. Michael Finan has been listed as one of the Best Doctors in America in U.S. News and World Report from 2011-2014. He is a reviewer for the following journals:
Gynecologic Oncology, Obstetrics and Gynecology, American Journal of Obstetrics and Gynecology, and Southern Medical Journal. Dr. Finan is a Diplomat for the American Board of Obstetrics and Gynecology, Fellow for the American College of Obstetricians and Gynecologists, Fellow of the American College of Surgeons, and a member of the Jefferson Parish Medical Society, Louisiana State Medical Society, Alpha Omega Alpha Honor Society, and the Society of Gynecologic Oncologists.

Dr. John LaFleur is a board member for the Advisory Committee for Alabama ACOG.


Dr. Botros Rizk is President of the Mobile Bay Obstetrics and Gynecology Society and President of the Middle East Fertility Society Chapter in the American Society for Reproductive Medicine in Beirut, Lebanon. He is a Distinguished Adjunct Professor at King Abdulaziz University in Jeddah, Kingdom of Saudi Arabia. He is President Elect for the Middle East Fertility Society and Scientific Advisory Board Member for Mediterranean Society for Reproductive Medicine. He is also a member of: Medical Society of Mobile County (Mobile, AL), European Society of Human Reproduction and Embryology (Brussels, Belgium), Royal College of Physicians and Surgeons of Canada (Ottawa, Canada), American College of Obstetrics and Gynecology (Washington, D.C.), American Society for Reproductive Medicine (Birmingham, AL), American College of Surgeons (Chicago, IL), American Association of Bioanalysts (St. Louis, MO), Royal College of Obstetricians and Gynaecologists (London, England), American Association of Gynecological Laparoscopists, Association of Professors of Gynecology and Obstetrics, and American Association of University Professors. Dr. Rizk is Chairman of the MEFS Symposium and an invited speaker for the American Society for Reproductive Medicine 70th Annual Meeting. He is also The European Society of Human Reproductive
and Embryology Task Force Chairman and the Editorial Board of the *Middle East Fertility Society Journal*.

Dr. Rodney Rocconi is Chair of the Department of Defense Ovarian Cancer Research Program: Detection, Diagnosis and Prognosis Panel and also Chair of the Department of Defense Ovarian Cancer Research Program: Cell Biology Panel. Dr. Rocconi’s abstract, “Dietary isothiocyanates inhibit cancer cell growth by inducing replication stress mediated DNA damage response” was a featured poster at Society of Gynecologic Oncology Annual Meeting on Women’s Cancer in Chicago, IL. Dr. Rocconi belongs to the following professional societies: Society of Gynecologic Oncology, American College of Obstetrics and Gynecology (Fellow), American Society of Clinical Oncology, American Association for Cancer Research, Mobile County Medical Society, and South Central Obstetrical and Gynecological Society. He is a member of the following committees: ACOG Alabama Chapter Advisory Board, NRG Oncology Translational Science in Gynecology Committee, Society of Gynecologic Oncology Education Committee, Society of Gynecologic Oncology Congressional Ambassador, and an Associate Member of Early Detection Research Network. Dr. Rocconi is an Editorial Reviewer for the following journals: *Gynecologic Oncology, International Journal of Gynecologic Cancer, Cancer, Clinical Ovarian Cancer, European Journal of Obstetrics & Gynecology & Reproductive Biology, Journal of Cellular and Molecular Medicine, Anti-Cancer Agents in Medicinal Chemistry, British Journal of Cancer, Carcinogenesis, Acta Obstetricia et Gynecologica Scandinavica, and Journal of Visualized Experiments*.

Dr. Jennifer Scalici was awarded the 2015 Alpha Sigma Nu Magis Award for service. Dr. Scalici’s abstract, “Dietary isothiocyanates inhibit cancer cell growth by inducing replication stress mediated DNA damage response” was a featured poster at Society of Gynecologic Oncology Annual Meeting on Women’s Cancer in Chicago, IL. She is a Research member for the American Association of Cancer, a Candidate member of the Society of Gynecologic Oncology, a Fellow member of the American Congress of Obstetricians and Gynecologists, and a Board of Trustees member for Spring Hill College. Dr. Scalici also is an instructor for the GYN Oncology resident didactic conference.

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

**Education**

The Department held its 24th Annual CME Conference in Obstetrics and Gynecology at the Daphne Civic Center April 16 & 17, 2015. Outside speakers were Dr. Mohamed Aboulghar, Cairo University, Egypt; Dr. Robert Moon, Alabama Medicaid, Montgomery; Ms. Janice M. Smiley, Alabama Department of Public Health, Montgomery; Dr. James W. Van Hook, University of Cincinnati COM, Cincinnati. Other USA Faculty speakers were: Ms. Amy Campbell, Department of NICU; Dr. Lamar Duffy, Family Medicine; Dr. Joel Lightner, Jr., Department of Radiology; Dr. C.M.A. Rogers, IV, Adjunct Associate Professor Department of Obstetrics and Gynecology. The meeting was widely
supported and attended by physicians, nurse practitioners, nurse midwives and nurses from a large geographic area.

Scholarly Efforts

The department has been actively enrolling subjects into two multi-center trials. One study is a prospective, interventional trial for preterm pre-eclampsia. A second study is for further evaluation of a commercially available noninvasive prenatal test for pregnant women at increased risk for fetal chromosomal abnormalities. The department is also collaborating with the department of Neonatology in an initiated study regarding delayed cord clamping in preterm deliveries. The residents have been involved with retrospective studies and have presented their work at regional and national meetings.

One scholarly effort the department is leading involves the Strong Start for Mothers and Newborns Initiative. This is a CMS funded project looking at enhancing prenatal care to improve preterm birth rates. This project will continue through 2017 as part of the multi-year, multi-center project.

The department continues to deliver excellent clinical service. Under the leadership of Dr. David Lewis, Chairman of Obstetrics and Gynecology, the faculty continues to impact the university and community by research trials that may be able to improve the quality of care for its high risk maternity patients.

Departmental faculty continue to serve on editorial boards, as journal reviewers, on advisory boards, and on grant review panels.
2014 – 2015
Summary of Scholarly Activities
Department of Orthopaedic Surgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


McBryde AM. Young athletes: injury prevention and treatment. University of South Alabama Med School Café; 2015 Sep 17; Mobile, AL.

Meyer, FN. Treatment of Dupuytren’s contracture. Lamplighters Orthopaedic Association Annual Meeting; 2014 Oct 10; Point Clear, AL.

Pearsall A. Pitfalls of shoulder arthroscopy. University of South Alabama Orthopaedic Alumni Association Conference; 2015 Jul 25; Orange Beach, AL.

Pearsall A. Osteotomies about the knee. University of South Alabama Orthopaedic Alumni Association Conference; 2015 Jul 26; Orange Beach, AL.

Perry, MD. Invited speaker. Foot and ankle amputations. Dallas Short Course Orthotics and Prosthetics; 2014 Oct 31; Dallas, TX.

Perry, MD. Invited speaker. Foot and ankle deformities in adults. Dallas Short Course Orthotics and Prosthetics; 2014 Oct 31; Dallas, TX.

Perry, MD. Invited speaker. Origins of the Southeastern Orthopaedic Foot Club and the USA Heroes. 26th Annual Southeastern Orthopaedic Foot Club Meeting; 2015 Apr 9; Sandestin, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Albert Pearsall, M.D.: Oral Boards Examiner – American Board of Orthopaedic Surgery; 2008-present Council Member, Tissue Advisory Council, LifeLink Foundation, Inc.; 2006-present Member, Surgical Services Division Committee, Mobile Infirmary Medical Center; 2003-present Publications Committee, American Orthopaedic Society of Sports Medicine

Mark Perry, M.D.: Oral Boards Examiner - American Board of Orthopaedic Surgery; Editorial Board of the Patient Information website, www.footeducation.com; Chairman, 26th Annual Southeastern Orthopaedic Foot Club, Sandestin, FL, April 9, 2015; 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, M.D.: AO Faculty Member 2015; Membership in AO Trauma North America 2015; AAOS Associate Member 2015.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Orthopaedic Surgery continues to be engaged both clinically and academically despite the tragic loss of the Department Chair, Dr. Frederick Meyer on
November 14, 2014. Dr. Angus McBryde began serving as the Department’s Interim Chair as of June 1, 2015. In the last year there have been 1 published article in nationally recognized journals, and 5 published abstracts. In addition, there have been 8 presentations at regional and national meetings. A number of our faculty received national recognition including Dr. Albert Pearsall who 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. Dr. Angus McBryde is on the Governing Council of the Senior Physician’s Section (SPS) of the American Medical Association and on several editorial boards. 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 2015 graduating residents each sat for Part I of the written board examination in July, and all passed the exam. Additionally, all three graduating residents accepted fellowship positions beginning August 1, 2015. Russell D. Goode, M.D., accepted a Trauma fellowship offer at the University of Missouri; Aaron K. Mates, M.D., accepted a Foot and Ankle fellowship at the prestigious Andrews Research and Education Foundation in Gulf Breeze, FL and John D. Tullos, M.D., accepted a Sports Medicine fellowship at the University of Mississippi.
2014-2015
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

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 Pathologists.

Elizabeth A. Manci: Member on the Board of Directors of the Gulf Coast Regional Chapter of the American Red Cross; Counsellor for District One of the Medical Association of the State of Alabama; Chairman of the search committee for Executive Director of the Mobile Medical Museum; Director of Alabama Placenta Registry. Director of The Centralized Unit for Study of Sickle Cell Disease; Publication committee member for Pediatric and Development Pathology Journal for the Society of Pediatric Pathology.

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

Three residents completed the program this year. Dr. Dalia Abdel Azim has entered a hematopathology fellowship at New York University in New York City. Dr. Diana Gelli began a forensic pathology fellowship in the Office of the Chief Medical Examiners in Baltimore, Maryland, and Dr. Kelly Moses joined Gulf Regional Pathologists, P.C. in Mobile. The department enjoyed another extremely successful recruiting year, with three new residents joining the department: Dr. Leonel Maldonado from Escuela de Medicina Ignacio A. Santos in Mexico, Dr. Shante Hill and Dr. Jonathan Newsom from the University of South Alabama, College of Medicine.

Dr. J. Allan Tucker stepped down after 12 years of distinguished service as chair of the department. Dr. Tucker was selected to receive the 2015 Distinguished Service Award on behalf of the University of South Alabama Medical Alumni Association. He was also elected by the class of 2016 to the University of South Alabama chapter of the Arnold P. Gold Humanism in Medicine Honor Society. Additionally, he was the recipient of the Association of Pathology Chairs Distinguished Service Award. Dr. Elliot Carter and Dr. Andrea Kahn have been named Interim Co-Chairs. Dr. Carole Boudreaux was named director of the autopsy service as well as Associate Director of the Residency Program. The cytogenetic laboratory, located at the main USA campus, was relocated to the USA Medical Center. Dr. Laurini participated in the Laboratory Medical Director Advanced Practical Pathology Program offered by the College of American Pathologists and the LEAN Training Program for Healthcare Leaders at Henry Ford Production System. An expansion and renovation of the autopsy suite was finalized which will improve the operations of the autopsy service. Mr. Michael Titford retired after 36 years and Ms. Linda Davis retired after 33 years of service to the university.

The residents’ faculty recognition award was presented to Dr. J. Allan Tucker, and the residents’ staff recognition award to Ryan Foster CT(ASCP). Dr. Kelly Roveda and Dr. J. Allan Tucker were awarded the Red Sash faculty award at graduation. Dr. Tucker gave the honors convocation address. Pathology was selected by the 2015 graduating class as the best basic science course, and Dr. J. Allan Tucker received the award for the best basic science professor with diagnostic electron microscopy selected as the best fourth year elective. The William A. Gardner, Jr., Award for an outstanding pathology performance by a graduating medical student was presented to Angela J. Keffer.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Kaulfers AM, Bhowmick S. Molar pregnancy causing thyrotoxicosis in a teenage girl with type 1 diabetes mellitus. Global Pediatric Health. 2015 Jan-Dec;2(1-3). Available from http://gph.sagepub.com/content/2/333794X15574285.full


II. PUBLISHED ABSTRACTS


Custodio H, Alrifai W, Miller T, Estrada B. Western blot seroreversion pattern among uninfected children perinatally exposed to human immunodeficiency virus. IDWeek 2014 Annual Meeting of the Pediatric Infectious Diseases Society, the Infectious Diseases Society of America, the HIV Medical Association, and the Society for Healthcare Epidemiology of America; 2014 Oct 8-12; Philadelphia PA. Abstract no. 1619.


### III. PUBLISHED BOOKS

### IV. INVITED PRESENTATIONS

Batten L. Invited speaker. Sudden death in athletes with sickle trait. 14th Annual Sickle Cell Regional Conference; 2015 May 2; Mobile, AL.

Bhowmick S. Invited speaker. Patient with Type I diabetes, hyperthyroidism, vaginal bleeding and intractable vomiting. 2014 Annual Meeting of the Southern Pediatric...
Connelly R. Invited speaker. Prominent professional women’s forum. 2015 Distinguished Young Women Final Competition Luncheon; 2015 Jun 19; Mobile, AL.

Crews L. Invited speaker. ACHIA HAL obesity—lessons learned. American Academy of Pediatrics, Alabama Chapter 2015 Spring Meeting & Pediatric Update; 2015 May 1; Destin, FL.

Estrada B. Invited speaker. A journey with a purpose. 2015 academic year inaugural lecture. Francisco Marroquin University School of Medicine; 2015 Jan 22; Guatemala, Guatemala.

Estrada B. Invited speaker. Leading curriculum change. Francisco Marroquin University School of Medicine; 2015 Feb 7; Guatemala, Guatemala.


Gifford KA, Hicks PJ, Trimm F, Lockspeiser TM, Burke A. Invited speakers. Increasing the value of the individualized curriculum by creating opportunities for trainees to develop self-regulated learning skills. 2015 Association of Pediatric Program Directors Spring Meeting; 2015 Mar 25; Orlando, FL.

Gremse D. Invited speaker. Prevalence of pediatric GERD. Dexlansoprazole Global Ad Board; 2015 Mar 21; Hong Kong, Hong Kong.

Gremse D. Invited speaker. Endoscopies and biopsies: Hetzel-Dent and HFRE scales. Takeda 390MR_204/205 Scientific Meeting; 2015 Apr 17; Chicago, IL.

Ponnambalam A. Invited speaker. IBD treatments--finding your best path. The Crohn’s & Colitis Foundation of America; 2014 Nov 1; Mobile, AL.

Preud’Homme D. Invited speaker. Diabesity. Bay Area Food Bank Live Well Mobile Conference; 2014 Nov 6; Mobile AL.

Siddiqui H. Invited speaker. Intravenous administration of PEG-asparaginase for patients with leukemia. Tumor Board Meeting, American Hospital Dubai; 2015 Aug 3; Dubai, UAE.

Trimm F. Invited speaker. Educating and entrusting tomorrow’s pediatricians. Pediatric Grand Rounds, University of Tennessee at Chattanooga; 2015 Apr 8; Chattanooga, TN.
Trimm F. Invited speaker. Identifying and supporting struggling residents: the role of trustworthiness. Pediatric Faculty Development Session, University of Tennessee at Chattanooga; 2015 Apr 8; Chattanooga, TN.

Wilson F. Invited speaker. Managing patients with sickle cell disease and the impact of chronic iron overload. Georgia Regents University; 2014 Oct 15; Atlanta, GA.

Wilson F. Invited speaker. Help patients achieve reductions of iron burden in the blood, liver, and heart, optimizing frontline therapy for adults with Philadelphia chromosome-positive chronic myeloid leukemia in chronic phase (T-CDE-1097161). Charleston Area Medical Center; 2014 Oct 28; Charleston, WV.

Wilson F. Invited speaker. Be sickle smart--take control of your future: living with sickle cell disease. Strong Memorial Hospital; 2014 Nov 25; Rochester, NY.

Wilson F. Invited speaker. Help patients achieve reductions of iron burden in the blood, liver, and heart. Iron Mountain oncologists; 2014 Dec 8; Iron Mountain, MI.

Wilson F. Invited speaker. Help patients achieve reductions of iron burden in the blood, liver, and heart. Fox Valley Hematology and Oncology; 2014 Dec 9; Neenah, WI.

Wilson F. Invited speaker. Be sickle smart--take control of your future: living with sickle cell disease. Georgia Regents University; 2014 Dec 13; Augusta, GA.

Wilson F. Invited speaker. Sickle cell certification training program. Newborn screening for sickle cell disease. Mobile Chapter Sickle Cell Association; 2015 Apr 1; Mobile, AL.

Wilson F. Invited speaker. Another therapeutic option for patients with chronic transfusional iron overload. Mobile County Health Care Providers; 2015 Jun 23; Mobile, AL.

Zayek MM. Invited speaker. Neonatology: career decisions. Biomedical Sciences Society; 2015 Feb 18; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Stephanie Anderson: Member: Human Rights Committee, Volunteers of America, Southeast

Lynn Batten: Member: Section on Cardiology, American Academy of Pediatrics; Council on Cardiovascular Disease in the Young, American Heart Association; Adult Congenital and Pediatric Cardiology Section, American College of Cardiology.

Kari Bradham: Member: Academic Pediatric Association, American Academy of Pediatrics

Kimberly Cole: Member: Alabama Baby Coalition.

Rosina Connelly: Member: Academic Pediatric Association Health Literacy SIG; Board of Directors, Mobile Ballet, Inc.; Board of Directors, Gulf Coast Patient Care Network; Workshop Co-Leader: Doctors are from Mars, patients are from Venus: teaching health literacy strategies across the medical education continuum to close the communication gap and keep patients safe and well; 2015 Pediatric Academic Societies Annual Meeting. Reviewer: American Academy of Pediatrics, Medical Education Online.

LaDonna Crews: Member: Board, American Academy of Pediatrics, Alabama Chapter; Residency Program Representative; Alabama Breastfeeding Coalition; Physician Liaison for Adolescent Health for the Alabama Department of Public Health; Regional Perinatal Advisory Committee.

Karen Crissinger: Reviewer: Journal of Pediatric Gastroenterology & Nutrition


Benjamin Estrada: Member: Alpha Omega Alpha Medical Honor Society; Gold Humanism Honor Society; COMSEP task force on curriculum development; Southern Society for Pediatric Research. Reviewer: Infectious Diseases in Clinical Practice.

Fabien Eyal: Member: Southern Society for Pediatric Research, Alabama Society of neonatology, Southeastern Association of Neonatologists, Alpha Omega Alpha Medical Honor Society, Vermont Oxford National Data Base; Clinical Champion, Coordinator of Neonatal Monitoring, Office of Rural Health.

Sheryl Falkos: Member: Advisory Board, Penelope House Domestic Violence Shelter

Cristina Gavrilita: Member: Board of Directors, Ronald McDonald House; Alabama Baby Coalition.

David Gremse: Member: CME Chair, American Academy of Pediatrics, Alabama Chapter; American Academy of Pediatrics, Subcommittee on Apparent Life Threatening Event; American Board of Pediatrics; General Pediatrics Examination Committee Group B; Director, American Board of Pediatrics and the American Board of Pediatrics Foundation; Medical Editor, Subboard of Pediatric Gastroenterology Exam Committee; Chair, Finance Committee; Secretary-Treasurer; Fellow, American College of Gastroenterology; Pediatric Gastroenterology Committee; American Gastroenterological Association; American Pediatric Society; Executive Council, Association of Medical School Pediatric Department Chairs (AMSPDC); Vice President, Gulf Coast Regional Care Organization, Region E; Mobile Pediatric Society; Finance Committee, North
American Society of Pediatric Gastroenterology, Hepatology, and Nutrition; Society for Pediatric Research; The Gold Humanism Honor Society.

**Charles Hamm:** Member: Southern Society for Pediatric Research; Alabama Society of Neonatology; SE Association of Neonatologists, Inc.; Vermont Oxford National Data Base; Alabama Medicaid Agency Regional Care Organization/Quality Assurance Committee; American Academy of Pediatrics.

**Hamayun Imran:** Member: American Academy of Pediatrics; American Society of Pediatric Hematology-Oncology; Children’s Oncology Group; USA Comprehensive Sickle Cell Disease Center; Advisory Board, Kedrion Pharmaceutical; Speakers Bureau, NovoNorDisk Pharmaceuticals.

**Anne-Marie Kaulfers:** Member: Board, Southeastern Diabetes Education Services (SDES). Reviewer: Clinical Pediatrics, Global Pediatric Health

**Paola Maurtua-Neumann:** Member: American Academy of Pediatrics, Alabama Chapter.

**Keith Peevy:** Member: Southern Society for Pediatric Research; Alabama Society of Neonatology; Alabama Chapter of the American Academy of Peds Fetus and Newborn Committee, Medical Society of Mobile County, Medical Association of the State of Alabama (MASA), American Medical Association, Society for Pediatric Research, Affiliate Member European Society for Pediatric Research, American Academy of Pediatrics Subspecialty Section on Neonatal-Perinatal Medicine, Alabama State Medical Society, Alpha Omega Alpha Medical Honor Society, Southeastern Association of Neonatologists, Inc., Alabama Baby Coalition Task Force, Southern District of Alabama Human Trafficking Task Force Committee.

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

**Daniel Preud’Homme:** Member: Quality Improvement Coach and Faculty, Alabama Child Health Initiative Alliance; Executive Board, Bay Area Food Bank. Reviewer: Clinical Pediatrics.

**Katrina Roberson-Trammell:** Member: Board, Gulf Regional Early Childhood Services (GRECS).

**Renee Roca-Garcia:** Member: American Academy of Pediatrics, Mobile Pediatric Society.

**Hafeez Siddiqui:** Member: Children’s Oncology Group; USA Comprehensive Sickle Cell Disease Center; American Society of Pediatric Hematology and Oncology; American Society of Hematology. Reviewer: Clinical Pediatrics.

**Hanes Swingle:** Member: Executive Committee, Alabama Interagency Autism
Coordinating Council (AIACC); Chair, Diagnostic Clinics Workgroup of the AIACC Standards of Practice Committee; Board, Autism Society of Alabama; Board, Glenwood Autism and Behavioral Health Center; Advisory Board, Learning Tree, Inc. Reviewer: *Maternal and Child Health Journal, Journal of Developmental Behavioral Pediatrics, Pediatrics*

Franklin Trimm: Member: Vice Chair, Accreditation Council for Graduate Medical Education Pediatric Residency Review Committee; Editorial Board, Journal of Pediatrics; American Pediatric Society; Gold Humanism Honor Society; Board, Society for Developmental and Behavioral Pediatrics; American Academy of Pediatrics Mental Health Task Force; Chair, AAP Committee on Pediatric Education; Co-Chair, AAP PediaLink Resident Advisory Committee; President-Elect, Association of Pediatric Program Directors (APPD); Director and Chair of Council, Association of Pediatric Program Directors (APPD) LEAD; Co-Chair, APPD LGBTQ Pediatric Education Group; Co-Chair for Developmental-Behavioral Pediatrics Invited and Submitted Science, Pediatric Academic Societies Program Committee; Board, Federation of Pediatric Organizations (FOPO); American Board of Pediatrics Education and Training Committee; Early Childhood Endowment Fund Advisory Panel, Community Foundation South Alabama; Advisory Board, South Alabama CARES; Workshop Co-Leader: Increasing the value of the individualized curriculum by creating opportunities for trainees to develop self-regulated learning skills; 2105 Association of Pediatric Program Directors Annual Spring Meeting. Reviewer: *Journal of Graduate Medical Education, Academic Medicine, Journal of Developmental and Behavioral Pediatrics*.

Richard Whitehurst: Member: Southern Society for Pediatric Research; Alabama Society of Neonatology; Medical Association of the State of Alabama (MASA); Alabama Physicians Wellness Committee; Medical Society of Mobile County; Southeastern Association of Neonatologists, Inc.; American Medical Association; American Academy of Pediatrics.

Felicia Wilson: Member: Prevention, Early Detection Subcommittee, Alabama Comprehensive Cancer Control Coalition; Co-Chair, Hemoglobinopathy Subcommittee, State of Alabama Newborn Screening Advisory Committee; Laboratory Medical Director, Sickle Cell Disease Association of America, Mobile Chapter; Speaker’s Bureau, Novartis Pharmaceuticals Corporation; State of Alabama Hemophilia Advisory Committee; President, Mobile Pediatric Society.

Michael Zayek: Member: Southern Society for Pediatric Research (SSPR); Alabama Society of Neonatology; Southeastern Association of Neonatologists, Inc.; American Academy of Pediatrics (AAP); Regional IV Perinatal Advisory Council; State Perinatal Advisory Council, Data Subgroup Committee FIMR.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pediatrics was delighted to welcome several new faculty members. Drs. Ram Bhat, Rashmi Gulati, and Om Jha joined the department in the Division of
Neonatology as Assistant Professors. Dr. Bhat completed his neonatology fellowship at UAB, while Dr. Gulati received her fellowship training at the University of Tennessee in Memphis. Dr. Jha moved to Mobile after finishing his neonatology fellowship at Children’s Hospital of Los Angeles. Dr. Nordie Bilbao also joined the department as Assistant Professor in Pediatric Endocrinology after completing her endocrinology fellowship at Winthrop. The Department recognized Dr. Jose Hamm for his outstanding contributions to neonatal services and medical informatics upon his retirement after nearly 25 years of dedicated service.

Drs. Lynn Batten, Rosina Connelly, LaDonna Crews, Benjamin Estrada, Sophia Goslings, David Gremse, Grace Hundley, Hamayun Imran, and Hanes Swingle were recognized by the USACOM Class of 2015 as Distinguished Faculty at the Honors Convocation. The twenty-first recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship for the Class of 2015 was Meagan E. Carpenter. Nine of the graduating medical students in the USACOM Class of 2015 chose residencies in Pediatrics or combined Medicine-Pediatrics. Of the pediatric housestaff completing residency training in 2015, five entered private practice, six entered into fellowship training, and one remained in the department as Pediatric Chief Resident. The two graduating Medicine-Pediatrics residents entered private practice. Thirteen new first year residents entered the pediatric residency program, and two first-year residents entered the combined Medicine-Pediatrics Residency Program. Dr. Laura Wright-Sexton completed her duties as Pediatric Chief Resident in 2015, and Dr. James Van Buren took over duties as Chief Resident for the 2015-2016 academic year.

The scholarly activities by the faculty of the Department of Pediatrics this year included 19 original articles and 17 published abstracts. Departmental faculty were active in mentoring pediatric residents in clinical research. There were 15 abstracts presented at regional and national meetings by pediatric residents as first authors with senior authorship by members of the pediatric faculty.

Quality improvement efforts to advance patient care were spearheaded by Dr. Daniel Preud’Homme in collaboration with the American Board of Pediatrics, Dartmouth-Hitchcock Medical Center, and Nemours in pilot testing of the MOC Quality Improvement Tracker.

The Department of Pediatrics is participating in national collaborative projects in medical education. Dr. Trimm was instrumental in developing a collaborative with Cincinnati Children’s Hospital and Wright State University in an Annual Program Evaluation Quality Improvement Project in conjunction with the American Board of Pediatrics. In Undergraduate Medical Education, Dr. Benjamin Estrada leads an effort to incorporate the SBAR (Situation, Background, Assessment, Response) communication tool into the curriculum.

Major goals for the coming year include: 1) achieving Patient Centered Medical Home recognition for our general pediatric clinics, 2) increasing Quality Improvement literacy
among the clinical faculty in the department through the MOC QI Tracker project, and 3) faculty development in medical education through the Te4Q (Teaching for Quality) project.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Schaffer SW, Jong CJ. Regulation of cardiac hypertrophy by T-type Ca\(^{2+}\) channel. In: Schaffer SW, Li M, editors. T-type calcium channels in basic and clinical science. Vienna, Austria: Springer-Verlag Wien; 2015. Chapter 5, p. 73-84.


II. PUBLISHED ABSTRACTS


Hargett LA, Yarbrough TM, Haven AK, Bauer NN. Microparticles from PAH rats increase ICAM-1 expression in pulmonary artery endothelial cells. FASAB J. 2015;29:863.12.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Bauer NN. Invited speaker. Microvesicles encapsulating cyclic nucleotides. Hannover Medical School Third Symposium cCMP and cUMP as New Second Messengers; 2014 Oct 10; Hannover, Germany.

Gillespie MN. Invited speaker. Mitochondrial DNA: a sentinel molecule in oxygen radical disorders. 10th Vail Cardiopulmonary Transplantation; 2015 Feb 23; Vail, CO.

Gillespie MN. Invited speaker. Oxidant-DNA signaling in the life and death of cells. University of Alabama at Birmingham, Department of Genetics; 2015 Jan 15; Birmingham, AL.

Gillespie MN. Invited speaker. Oxidant-DNA signaling in the life and death of cells. Structural Biology/Biochemistry Seminar Series, Institute of Molecular Biophysics, Florida State University; 2015 Sep 29; Tallahassee, FL.

McMurtry IF. Invited speaker. Vasoconstriction and pressure in pathogenesis of PAH. Arizona Respiratory Center, University of Arizona; 2014 Dec 18; Tucson, AZ.


Schaffer SW. Invited speaker. Downregulation of the unfolded protein response in taurine deficient hearts. Annual Meeting of the International Academy of Cardiovascular Sciences, North American Section; 2015 Sep 12; Omaha, NE.

V. NATIONAL PROFESSIONAL RECOGNITION


Natalie N. Bauer: Chairman, American Physiological Society, Awards Committee-Giles Filley Memorial Award for Excellence in Respiratory Physiology and Medicine; Member, American Physiological Society Programming Committee; Member, American Thoracic Society Nominating Committee.
Michael Chinkers:  Member, American Heart Association, Molecular Signaling 2 Study Section; Member, American Heart Association, Molecular Signaling 1 Study Section; Reviewer, *American Journal of Physiology – Lung Cellular and Molecular Physiology*.


Mark N. Gillespie:  Associate Editor, *American Journal of Physiology, Lung Cell and Molecular Physiology*; Member, editorial board *American Journal of Respiratory Cell and Molecular Biology*; Member, American Thoracic Society Program, Leadership and Long Range Planning Committees; Member, NIH protocol review panel on Prevention and Early Treatment of Acute Lung Injury; Member, NIH Special Study Sections: STTR, SBIR, and Program Project Grants; Ad hoc member, NIH study sections: Special Emphasis Panel and Respiratory Integrative Biology and Translational Research Study Section (RIBT); Member, American Heart Association - Midwest Affiliate – Vascular Biology Review Committee; Member, American Lung Association Review Committee; Manuscript reviewer: *Journal of Clinical Investigation, American Journal of Physiology, American Journal of Respiratory and Critical Care Medicine, Free Radical Biology & Medicine, Microvascular Research, PLoS ONE*.


Lyudmila Rachek:  Member, Editorial Board: *Open Endocrinology Journal*, and *New Journal of Science*; Member, American Diabetes Association; Member, American Heart Association; Reviewer: *Diabetes, PLoS One, Experimental Therapeutics, Clinical Epigenetics, Nutrients, Journal of Endocrinology, Food and Function, Journal of Cellular Physiology, Oxidative Medicine and Cellular Longevity*.

Thomas C. Rich:  Member, American Heart Association, Molecular Signaling 2 Study Section; Ad hoc reviewer, National Science Foundation GRFP panel; Ad hoc reviewer: *Nature Chemical Biology, Tumor Biology, Journal of Cellular Biochemistry, PLoS One*.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department continued its dedication to the College of Medicine’s mission of teaching, research and service through numerous activities. This year, the Department hosted three Distinguished Scientist Series speakers. Geoffrey R. Norman, Ph.D., Professor of Clinical Epidemiology and Biostatistics and Assistant Dean for the Program for Educational Research and Development at McMaster University in Hamilton, Ontario, gave a talk entitled “The Science of Teaching and Learning: Evidence-based strategies to enhance clinical teaching” on January 8, 2015. Raymond J. Langley, Ph.D., Associate Research Scientist in Respiratory Immunology and Asthma Program at Lovelace Respiratory Research Institute in Albuquerque, NM, presented his talk, “Integrative ‘Omics Analysis of Sepsis: Biomarkers for Improved Patient Management” on January 22, 2015. On August 13, 2015, Matthew J. Martin, M.D., F.A.C.S., Director of Surgical Research and Trauma at Madigan Army Health System, gave a presentation entitled “Hemorrhagic Shock and Demand-Side Economics: From the Battlefield to the Bench.”

Dr. Natalie Bauer, Assistant Professor, was awarded an intramural grant provided by the USA Research and Scholarship Development Grant Program for her project, “Biologically Targeted Drug Delivery to the Pulmonary Airways and Pulmonary Circulation.”

Dr. Tom Rich, Professor, 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.

Faculty in the Department saw several graduate students earn their doctoral degrees this year under their guidance. Chian Ju Jong, Ph.D., defended her dissertation entitled, “Mechanism Underlying Taurine Depletion-mediated Cell Death,” on October 23, 2014. Dr. Jong accepted a fellowship in the Physiology and Pharmacology Department at Western University School of Medicine and Dentistry in London, Ontario, Canada. Ashley S. Lindsey, Ph.D., defended her dissertation, “Resident Microvascular Endothelial Progenitor Cells for the Restoration of the Pulmonary Microvascular Barrier During Acute Respiratory Distress Syndrome,” on October 24, 2014. Leslie A. Hargett (Blair), Ph.D., defended her dissertation, “Microparticles from a Rat Model of Severe Pulmonary Arterial
Hypertension Increase ICAM-1 Expression in Pulmonary Artery Endothelial Cells,” on August 11, 2015. Peter F. Favreau, Ph.D., defended his dissertation entitled, “An Excitation-Scanning Hyperspectral Microscope for Imaging Exogenous and Endogenous Fluorescence” on September 29, 2015. Dr. Favreau has accepted an invitation to return to our University for a post-doctoral fellowship.

This summer, the Department said farewell to our colleague, Dr. Stephen Schaffer, who retired after 34 years of teaching, research, and service to the University. Dr. Schaffer accepted his nomination to Professor Emeritus status and this move was approved by the Board of Trustees. The Department also welcomed a new member to our faculty. Dr. Raymond J. Langley, Assistant Professor, joined the Department in August. Dr. Langley brings to the Department his research expertise in metabolomic biomarkers modeling for outcomes prediction in sepsis and is the College of Medicine’s first bioinformaticist.
2014-2015
Summary of Scholarly Activities
Department of Physiology & Cell Biology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS

Bongard RD, Townsley MI, Merker MP. The effects of mitochondrial complex I blockade on ATP and permeability in rat pulmonary microvascular endothelial cells in culture (PMVEC) are overcome by coenzyme Q1 (CoQ1). Free Radic Biol Med. 2015 Feb;79:69-77.


Taylor MS, Francis M. Decoding dynamic Ca$^{2+}$ signaling in the vascular endothelium. Front Physiol. 2014 Nov 17;5:447.


II. PUBLISHED ABSTRACTS


Xu N, Stevens T. Extracellular sodium modulates the magnitude of calcium influx through endothelial store operated calcium entry channels. Am J Respir Crit Care Med. 2015;191:A4369.

Xu N, Stevens T. Orai1 is a determinant of pulmonary endothelial migration: regulation of extracellular sodium permeation through the I_{SOC} channel. Am J Respir Crit Care Med. 2015;191:A2663.


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS


Sayner SA. Invited speaker. Cycling around the pulmonary endothelium. Adenylyl Cyclase and the Pre-Eminent Second Messenger cAMP meeting, St. Catherine’s College, Cambridge University; 2015 Jun 27; Cambridge, UK.

Stevens T. Invited speaker. Purine and pyrimidine cyclic nucleotides in endothelium: functions revealed by exoenzyme Y. Hanover Medical School; 2014 Oct 10; Hanover, Germany.


Townsley MI. Invited speaker. TRPV4 and pulmonary edema. Department of Radiology, University of Pennsylvania; 2015 Apr 27; Philadelphia, PA.

Zha XM. Invited speaker. Differential contribution of ASIC2 to neuronal injury in different brain regions. Department of Biochemistry and Molecular Biology, Shanghai Jiao Tong University; 2015 Jun 4; Shangai, China.

Zha XM. Invited speaker. Acid-sensing ion channels in neuron function and injury. Department of occupational health. Third Military Medical University; 2015 Jun 8; Chongquing, China.
Zha XM. Invited speaker. Acid-sensing ion channels in neuron function and injury. Department of Physiology & Pathophysiology, Tianjin Medical University; 2015 Jun 10; Tianjin, China.

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; 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.

Thomas M. Lincoln: Member, American Association for the Advancement of Science, American Society for Biochemistry and Molecular Biology, American Physiological Society, American Society for Pharmacology and Experimental Therapeutics, Southeastern Pharmacology Society, American Heart Association, American Society for Gene Therapy, Oxygen Society; Editorial Board Member, Journal of Biological Chemistry, Molecular Pharmacology, Journal of Vascular Research.

James C. Parker: Member, American Physiological Society, Microcirculatory Society, American Thoracic Society; 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.


Troy Stevens: Editorial Board Member, American Journal of Physiology Lung Cellular and Molecular Physiology, Pulmonary Circulation; Reviewer, National Institutes of Health Special Emphasis Panel, National Institutes of Health Program Project Grant; External Advisor, Brown University COBRE; Board of Directors, American Thoracic Society Pulmonary Circulation Assembly Chair.

Mark S. Taylor: Member, American Physiological Society, PLoS One, JoVE, Physiological Reviews; Reviewer, American Heart Association Study Section Vascular Biology and Hypertension I.


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

This year was marked by a merger between the Department of Physiology and the Department of Cell Biology and Neuroscience. We have now transitioned into the Department of Physiology and Cell Biology which has been rejuvenated by the addition of a new chair, Dr. Troy Stevens. Dr. Stevens has been the Director of the Center for Lung Biology since 2002. The department was also expanded with the addition of three faculty members Dr. Mikhail Alexeyev, Dr. Sarah Sayner and Dr. Xiangming Zha, respectively. Dr. Steve Ballard retired in May after 25 years of service to the College of Medicine. Dr. Ballard conducted research on ion transport and cystic fibrosis.
The department faculty continue to submit and receive grants at a nationally competitive level. Dr. Sayner received funding on her first NIH R01 grant. She also completed the funding cycle for her Parker B. Francis Fellowship grant. Dr. Taylor received funding for an NIH S10 Instrumentation grant to purchase an Andor Revolution WD Confocal Imaging System for the Bio-Imaging Facility. Dr. Taylor also received funding from the Mitchell Cancer Institute to study Ca$^{2+}$ signaling patterning in cancer. Dr. Townsley’s NIH T32 Training grant continues to support the Center for Lung Biology, COM graduate program and the Medical Student Summer Research program. Also, Dr. Zha received funding for an NIH R21 grant.

The Physiology and Cell Biology faculty continue to contribute to medical education. Several faculty members serve as module/course directors, lecturers, facilitators of active learning sessions and mentors. Faculty contributed significantly to the Cardiovascular, Respiratory and Urinary modules for M1 as well as Digestive, Endocrine/Reproductive, Musculoskeletal and Neuroscience/Behavior modules for M2. Drs. Alexeyev, Lin, Sayner, Stevens, Taylor, Townsley and Weber mentored undergraduate and medical students participating in the Medical Student Summer Research Program.

In addition to medical school teaching activities, the faculty also actively taught in the Basic Medical Sciences Graduate Program. The department faculty and three Emeritus faculty members Drs. Downey, Lincoln and Parker contributed significantly to the graduate courses. Dr. Sayner served as Course Director of Fundamentals of Basic Medical Science I, Dr. Stevens served as Course Director of Lung Biology, Dr. Townsley served as Course Director of Biostatistics/Experimental Design and Effective Scientific Writing and Dr. Weber served as Course Director of Fundamentals of Basic Medical Science II, respectively. Drs. Ballard, Downey and Taylor lectured to the Cardiology Fellows at USAMC. Joshua Waldrup, mentored by Dr. Mark Taylor, completed his Ph.D. requirements.

The department faculty contributed nineteen articles to peer-reviewed journals as well as sixteen abstracts and two book chapters. Dr. Alexeyev was interviewed for a feature article in Science Magazine. Several faculty delivered lectures to professional societies and international meetings this year. Dr. Sayner chaired a scientific symposium at the American Thoracic Society International Conference in Denver, CO. Dr. Stevens delivered an invited lecture at the Hannover Medical School in Hannover, Germany. Dr. Townsley presented a Skype seminar to the University of Pennsylvania on TRPV4 and pulmonary edema. Dr. Zha delivered invited lectures to Shanghai Jiao Tong University in Shanghai China and Tianjin Medical University in Tianjin China.

The Department of Physiology and Cell Biology continues to recruit new faculty and strives to contribute to the College of Medicine’s mission of research, teaching and service.
2014-2015
Summary of Scholarly Activities
Department of Psychiatry

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Mandracchia JT, Smith PN. The interpersonal theory of suicide applied to male prisoners. Suicide Life Threat Behav. 2015 Jun;45(3):293-301.


II. PUBLISHED ABSTRACTS


Blazek M, Brooks WB, Lehmann S, Popeo D, Wilkins K. What do all medical students need to know about geriatric mental health? The 2014 Association of American Medical Colleges Medical Education Meeting; 2014 Nov 6-7; Chicago, IL. p. 10. Abstract no. 2000983.


Williamson DJ. The suicide ideation and behavior assessment tool (SIBAT): development of a novel measure of suicidal ideation and perceived risk. 15th International Congress on Schizophrenia Research; 2015 Mar 28-Apr 1; Colorado Springs, CO. Abstract no. 2091364.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Engeriser JL. Invited speaker. Depression and anxiety: when to treat, how to treat, and when to refer. American College of Physicians Alabama Chapter Annual Scientific Meeting. 2015 Jun 4; Point Clear, AL.

Engeriser JL. Invited speaker. Best practices: medications and procedures for PTSD, depression, and traumatic brain injury. Gulf Coast Veterans Health Care System Community Mental Health Summit; 2015 Aug 18; Mobile, AL.


Franks RD. Invited speaker. Hijacking the brain: understanding addiction. Medical Association of Alabama, Alabama Board of Medical Examiners, and the Alabama Board for Nursing Prescribing Controlled Drugs and ER/LA Opioid REMS; 2014 Nov 22; Birmingham, AL.

Franks RD. Invited speaker. Hijacking the brain: understanding addiction. Medical Association of Alabama, Alabama Board of Medical Examiners, and the Alabama Board for Nursing Prescribing Controlled Drugs and ER/LA Opioid REMS; 2015 Jul 10; Point Clear, AL.

Haygood MA. Invited speaker. Managing delirium in the agitated patient. Virginia College of Osteopathic Medicine Alumni CME Reunion; 2015 Sep 11; Blacksburg, VA.

Langhinrichsen-Rohling J. Invited speaker. Family health: the deleterious effects of family violence. Regional Health Disparities Symposium; 2015 Jun 26; Mobile, AL.


Langhinrichsen-Rohling J, Friend J. Invited speakers. ACT as a brief intervention for adult psychiatric practice. University of South Alabama/AltaPointe Health Systems Psychiatry Fellows at the University of South Alabama; 2015 Mar 5; Mobile, AL.

Langhinrichsen-Rohling J, Friend J. Invited speakers. The FACT matrix in action. University of South Alabama/AltaPointe Health Systems Psychiatry Fellows at the University of South Alabama; 2015 May 7; Mobile, AL.

Langhinrichsen-Rohling J, Selwyn C. Invited speakers. Gender, ethnicity, and cultural considerations in suicidality. 48th Annual Conference of the American Association of Suicidology; 2015 Apr 17; Atlanta, GA.

O’Leary P. Invited speaker. Achieving safe use while improving patient outcomes: ADHD in children and adults. Medical Association of the State of Alabama, Alabama Board of Medical Examiners, and the Alabama Board of Nursing Prescribing of Controlled Drugs and ER/LA Opioid REMS; 2015 Jan 18; Montgomery, AL.


O’Leary P. Invited speaker. Never worry alone: worklife considerations for residents and early career psychiatrists. 20th National Psychopharmacology Update, Nevada Psychiatry Association; 2015 Feb 12; Las Vegas, NV.


Parker SK. Invited speaker. ADHD across the life cycle. Medical Association of the State of Alabama, Alabama Board of Medical Examiners, and the Alabama Board of Nursing Prescribing of Controlled Drugs and ER/LA Opioid REMS; 2015; Jul 12; Point Clear, AL.
Parker SK. Invited speaker. Coping with disaster: the impact of natural disasters on mental health. University of South Alabama College of Medicine Alumni Association Weekend; 2015 Jun 5; Orange Beach, AL.

Smith PN, Selwyn CN. Invited speakers. Suicide risk assessment and clinical management. Alabama Jail Association Annual Conference; 2014 Oct 22; Orange Beach, AL.


Zlomke KR. Invited speaker. Parent-child interactions in families of children with autism spectrum disorder. Saint Louis Department of Psychology. 2014 Dec 7; St. Louis, MO.

V. NATIONAL PROFESSIONAL RECOGNITION

Erica J. Fasano, MD was awarded the position of Resident-Fellow member (RFM) for the Alabama Physicians Association Political Action Committee (APAPAC) for the Eastern half of the United States. This important role works to motivate and organize psychiatric residents and fellows to contribute and participate in the APAPAC in order to promote laws that benefit the mentally ill both at the State and National level.


Zlomke KR. Research Scholar, Society for Developmental and Behavioral Pediatrics.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Ronald Franks, MD served as president of the Medical Association of Alabama through April of 2015.

The Red Sash Award from the University of South Alabama College of Medicine’s graduating class of 2015 was awarded to Bogan Brooks, MD, James Hart, DO, Severin Grenoble, MD, Praveen Narahari, MD, Sandra Parker, MD, and Bradley Sadler, MD.

Sandra K. Parker, MD and J. Luke Engeriser, MD continue to serve as members of the Alabama Statewide Health Coordinating Council (SHCC) Inpatient Psychiatric Commission.

Sandra K. Parker, MD continues to serve at several committees at the University of South Alabama College of Medicine including Admissions Committee, Curriculum Committee, Clinical Chairs Committee, and the Executive Council since July 2011. She continues to serve on the Retrospective Drug Utilization Review (DUR) Board at Alabama Medicaid.
Agency, the Mental Health Regional Care Organization (RCO) Taskforce, the Benefactor, Mobile Carnival Association and En Pointe Society of Mobile Ballet, the RCO Quality Assurance Committee at Alabama Medicaid Agency, the Alabama Rural Health Association since March 2013, the Alabama Telehealth Workgroup since July 2012, and the Mobile County Domestic Violence Taskforce since 2008. She was elected President of the Mobile Ballet. Dr. Parker continues to serve as a member of the Faculty Advisory Board for the University of South Alabama Student Run Clinic.

Julie Bernstein, DO has served as a member of the Mobile County Domestic Violence Taskforce since June 2013.

The Department is continuing its involvement in local and district branch activities of the American Psychiatric Association. Sandra K. Parker, MD continues to serve as President of the Alabama Psychiatric Physicians Association (APPA) after serving for two years as the President-elect. J. Luke Engeriser, MD continues to serve as secretary of the APPA for a two year term. James Hart, DO is still serving as the President of the Mobile Bay Psychiatric Society.

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-Fellows Representative. He is also a member of the Legislative Advocacy Committee. He is also serving as the University of South Alabama Department of Psychiatry resident representative to the Alabama Psychiatric Physicians Association.

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 until June 2016.

Paul J. O’Leary, MD continues to serve on the Professional Sexual Misconduct and Disruptive Behavior Evaluation for the Alabama Medical Board of Censures, Georgia Board of Medicine, Tennessee Board of Medicine, North Carolina Medical Board, Louisiana Medical Board, and Birmingham, Alabama area hospitals.

Paul J. O’Leary, MD continues to assist in Sex Offender Supervision in conjunction with George State Board of Pardons and Paroles.

Mark Haygood, DO continues to serve as the American Psychiatric Association Area 5 Early Career Psychiatric (ECP) Deputy Representative. 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.

Chairs Comments: The Psychiatry Department continues to expand its academic programs to balance its comprehensive clinical activities. Of special note is the gradual increase in the percentage of USA medical students choosing psychiatry as their specialty
in the match. The Class of 2015 had 14% of its students choose psychiatry, four times the national average, at a time when the percent of students choosing psychiatry nationally is declining. Undoubtedly, this success is related to the quality of teaching by the faculty and residents, as well as the commitment of the department to the success of our students, irrespective of their ultimate specialty choice. This increase in student selection of psychiatry parallels the gradual, sustained increase in the quality of residents chosen for our program. Their impact on the students' education and professional development is readily apparent. Lastly, the faculty, residents, and students have increased their investment in research and scholarly output. This investment is a high priority going forward as we work to further strengthen our academic activities, while continuing to maintain the largest comprehensive mental health center in the state of Alabama, serving the mental health needs of patients of all ages, and with all psychiatric disorders.
2014-2015
Summary of Scholarly Activities
Department of Radiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

McQuiston S. Invited speaker. The use of online educational tools in graduate medical education. Introduction to the Practice of Medicine Summit, American Medical Association; 2014 Oct 6; Chicago, IL.

Gupta S. Invited speaker. Case-based review of nuclear medicine PET/CT workshop-cancers of the abdomen and pelvis. 100th Scientific Assembly and Annual Meeting of the Radiological Society of North America; 2014 Dec 3; Chicago, IL.

Gupta S. Invited speaker. Application of nuclear medicine in Neurology. Alabama Society of Nuclear Medicine Annual Meeting 2015; 2015 May 2; Orange Beach, AL.

Lightner JE. Invited speaker. Detecting breast cancer. 24th University of South Alabama Obstetrics and Gynecology Conference; 2015 Apr 17; Daphne, AL.

Samuels D. Invited speaker. An overview of minimally invasive treatments. University of South Alabama. Med School Café; 2015 Feb 19; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Maria S. Figarola: member of the Program Directors Support Ad Hoc Committee for the Association of Program Directors in Radiology (APDR).

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Maria S. Figarola has assumed the role of Chair as of August 15, 2015. Throughout the prior year, Dr. Figarola served as Interim Chair upon the retirement of Dr. Jeffery Brandon. She is the Chief of Pediatric Radiology and continues to oversee the Pediatric Radiology Division. As Residency Program Director she continues to institute Milestones into the Next Accreditation System (NAS) which is a residency program requirement. She has maintained
memberships on multiple committees including Chair of Radiology’s Clinical Competency Committee (CCC), Program Evaluations Committee (PEC). She began her first year as chair of the Faculty Committee on Appointments, Promotions, and Evaluations (FCAPE) Committee. Dr. Figarola is serving on the Health Sciences Billing and Compliance Committee, Medical Executives Committee, GMEC, Women’s Quality Service Committee at USA Children’s and Women’s Hospital, MRI Safety Committee, and Combined Credentialing Committee.

Dr. Joel E. Lightner serves as the Section Chief in Women’s Imaging for the Department. He has a goal of continuing to improve his lecture series for residents and also continue to improve his section and breast imaging center. Dr. Lightner is serving a Co-Primary Investigator for a grant entitled, *Microwave Radio and Infrared Sensitivity Based Breast Cancer Detection Device*, through NIH. He mentored a student for the COM Summer Medical Student Research Program, who went on to win the 2015 Clyde Huggins Award.

Dr. Samuel A. McQuiston is leading a process of developing a Patient Safety Program for Radiology along with Drs. Clark, Coumanis, Gupta, and Standley. Dr. McQuiston provides CME lectures on Thoracic Radiology and he also reviews cases of interest to residents. Dr. McQuiston gave 1st Year Orientation to 2015 incoming Radiology Residents. Dr. McQuiston serves as the Assistant Dean for GME, Designated Institutional Official and Chair of the GME. Dr McQuiston served as a member of USAMC Professional Improvement Committee.

Dr. Derek B. Samuels serves as the Medical Director of the PICC Team for the Department. He has developed a new Interventional Radiology Clerkship Course for 4th year Med Students and has revised the Interventional Radiology Residency curriculum for Sakai implementation. Dr. Samuels serves as the lead Interventional Radiologist for the collaborative effort with Department of Pathology, entitled” Standardization of thyroid FNA- Quality Improvement Project.

Dr. Brad A. Steffler serves as the Chief of Interventional Radiology for the Department until 2015. Dr. Steffler has been updating the Body Imaging Curriculum for Radiology Residency in compliance with ACGME. Dr. Steffler is an Associate Member of The Mitchell Cancer Institute. He serves an investigator for an ongoing collaboration with the Pathology Department entitled, “Standardization of thyroid FNA- Quality Improvement Project”.

Two new faculty members joined the Department of Radiology this year. Dr. Maximilian Pyko joined the department as an assistant professor of Interventional Radiology. Dr. Pyko completed his fellowship in Interventional Radiology at Indiana University in 2014. Dr. Oganes Ashikyan joined the department as an assistant professor of Neuroradiology. Dr. Ashikyan completed his fellowship in Musculoskeletal Imaging at The University of California, Los Angeles in 2009 and a fellowship in Neuroradiology at The University of Texas in 2014. Dr. Samuel McQuiston and Dr. Shikha Gupta were promoted to Associate Professors.
Five residents completed the Radiology Residency Program this year. Dr. Hal J. Clark became a Diagnostic Radiologist with Mobile Infirmary Health System. Dr. Sarah Gore embarked upon a Breast Imaging Fellowship at the Case Western Reserve University of Cleveland, OH; Dr. Bryan Jordan began a Breast Imaging Fellowship at MD Anderson in Houston, TX; Dr. Adams Moore began an Abdominal Imaging and Cross-Sectional Interventional Fellowship at Emory University in Atlanta, GA; Dr. Eduardo DeMoroni began an Abdominal Imaging Fellowship at the University of North Carolina in Chapel Hill, NC.

Dr. Dhanya Anand was presented with the Alabama Academy of Radiology Robert Stanley M.D. Annual Award for Outstanding Resident or Fellow Research

Former Professor and Chief of Neuroradiology, Dr. Francis “Frank” Greiner passed away unexpectedly in May 4, 2015. He was a tremendous asset to the Department of Radiology and will be greatly missed. Dr. Greiner was posthumously awarded the Teacher of the Year Award by the Radiology Residents.

Dr. Allan E. Green Jr., professor emeritus of radiology at the University of South Alabama College of Medicine, passed away on Sept. 3, 2015. He was 84. In addition to serving as professor of radiology at USA, Dr. Green also served as director of mammography and adjunct associate professor of physician assistant studies. Dr. Green was a member of multiple professional organizations, including the Southern Medical Association, Southern Radiological Conference, Radiological Society of North America and the Society of Nuclear Medicine.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Tan MCB, Basturk O, Brannon AR, Bhanot U, Scott SN, Bouvier N, LaFemina J, Jarnagin WR, Berger MF, Klimstra D, Allen PJ. GNAS and KRAS mutations define


II. PUBLISHED ABSTRACTS


Simmons JD, Parker JC, Obiako B, Muscat CA, Gillespie MN. Oxidative mitochondrial (mt) DNA damage and mtDNA damage associated molecular patterns (DAMPs) contribute to ventilator-induced lung injury (VILI). Am J Respir Crit Care Med. 2015;191:A1010.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Barber WH. Invited speaker. Small bowel obstruction. 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 9; Mobile, AL.

Brevard S. Invited speaker. Stop the bleeding – reversing novel anti-coagulants. 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 9; Mobile, AL.

Brevard S. Invited speaker. Rib fractures – to plate or not to plate? 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 10; Mobile, AL.
Brevard S. Invited speaker. Abdominal trauma. 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 10; Mobile, AL.


Grimm L. Invited speaker. Minimally invasive therapy for colorectal cancer. American College of Surgeons Alabama and Mississippi Chapters 2015 Annual Conference; 2015 Jun 5; Point Clear, AL.

Richards WO. Invited speaker. Surgical including radiofrequency ablation treatment of Barrett’s esophagus. 15th Annual Minimally Invasive Surgery Symposium 2015; 2015 Feb 26; Las Vegas, NV.

Richards WO. Invited speaker. Gastroparesis diagnosis and treatment. 15th Annual Minimally Invasive Surgery Symposium 2015; 2015 Feb 26; Las Vegas, NV.

Richards WO. Invited speaker. Open or laparoscopic components separation techniques for complex hernia repair. American College of Surgeons Alabama and Mississippi Chapters 2015 Annual Conference; 2015 Jun 5; Point Clear, AL.

Richards WO. Invited speaker. Approach to gastrointestinal stromal tumors (GIST). American College of Surgeons Alabama and Mississippi Chapters 2015 Annual Conference; 2015 Jun 5; Point Clear, AL.

Richards W. Invited speaker. LINX – a revolutionary new treatment for severe GERD. University of South Alabama Med School Café; 19 Aug 2015; Mobile, AL.

Rider P. Invited speaker. Endoscopic intraluminal stenting. American College of Surgeons Alabama and Mississippi Chapters 2015 Annual Conference; 2015 Jun 5; Point Clear, AL.

Simmons J. Invited speaker. Inhaled DNase1 prevents and reverses mtDNA DAMP dependent bacterial-induced lung injury. American Association for the Surgery in Trauma; 2015 Sep 12; Las Vegas, NV.

Simmons J. Invited speaker. Developing a pediatric trauma center. Surgery Grand Rounds, University of Mississippi Medical Center; 2014 Dec 17; Jackson, MS.

Simmons J. Invited speaker. Hypersomolar theory. 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 9; Mobile, AL.

Simmons J. Invited speaker. Indication for ED thoracotomy. 6th Annual USA Trauma and Acute Care Surgery Symposium; 2015 Apr 10; Mobile, AL.
Tan M. Invited speaker. Work-up and surgical management of pancreatic cancer. Dothan Gut Club; 2014 Dec 9; Dothan, AL.

Tan M. Invited speaker. Recent advances in melanoma. Alabama Academy of Family Physicians Annual Meeting; 2015 Jun 25; Destin, FL.


Tan M. Invited speaker. Melanoma update. American College of Surgeons Alabama and Mississippi Chapters 2015 Annual Conference; 2015 Jun 5; Point Clear, AL.

Tan M. Invited speaker. Work-up and surgical management of pancreatic cancer. Singing River Regional Cancer Center; 2014 Nov 18; Pascagoula, MS.

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. Moderator: Acute brain injury. 6th Annual USA Trauma and Acute Care Surgery Symposium. 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. Elected to Governor American College of Surgeons.

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


President Alabama Chapter American College of Surgeons; Co-Director Foregut Course at the 15th Annual Minimally Invasive Surgery Symposium February 2015; Alumni Distinguished Speaker. Mitochondrial DNA DAMPs causes multiple organ failure after trauma. University of Maryland Surgical Grand Rounds Alumni Distinguished Speaker. 2014 Sep 17; Baltimore, MD.

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. Appointed as Chair Commission on Cancer, Alabama Chapter American College of Surgeons.

Charles B. Rodning: Welcome speaker and Moderator. Acute general surgery emergencies. Military trauma care – a continuum. Complex trauma cases. 6th Annual USA Trauma and Acute Care Surgery Symposium. Moderator/Facilitator: 5th Annual Greater Gulf Coast Trauma and Acute Care Surgery Symposium. 2015 Mar, Mobile, AL.

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

Jon D. Simmons: Moderator: Changes in austere environments. Critical care update. 6th Annual USA Trauma and Acute Care Surgery Symposium. Member: Society of Critical Care Medicine, Southeastern Surgical Congress, Eastern Association for the Surgery of Trauma; Fellow of American College of 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 that shows promising development as a surgeon scientist. The award supports his research efforts for five years.

Marcus Tan: Achieved American Board of Surgery certification in Complex General Surgical Oncology; USAMC Tumor board moderator, USA MCI Tumor board moderator.

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. Sidney Brevard M.D., F.A.C.S., Lynn Dyess, M.D., F.A.C.S., Roy E. Gandy, M.D., F.A.C.S., Lee Grimm, M.D., 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., Jon D. Simmons, M.D., F.A.C.S. and Marcus Tan, 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. Brevard, Grimm, Tan, Richards, and Rider participated in the active learning sessions for the first and second year students under the new system based curriculum.

Lee Grimm, M.D. reorganized the entire 3rd year student clerkship into an active learning experience with emphasis on student education in the core subjects of surgical sciences. The redesign of the entire curriculum was very successful and demonstrated a 65%
increase in the national board scores. The mean national board score percentile for the students was the 65th percentile.

**General Surgery Residency Training:** Dr. Simmons in his first year as Program Director along with associate program director Dr. Rider has provided outstanding leadership for resident education. Many of the advances in academics, ABSITE performance, and educational activities of the Department of Surgery can be attributed to Drs. Simmons and Rider. The program continues to make progress in first time pass rates for the written and oral boards in surgery. Ninety-three % of the graduating residents for the last three years have passed their written boards and 80% of the graduates for the past 5 years have passed their written boards on the first examination.

**Recruitment:** The Department was able to recruit five outstanding surgeons to continue the clinical, academic, and educational missions of the Department. Jim Glasser, M.D., F.A.C.S. was recruited to Pediatric surgery, Josh Taylor, M.D. was recruited to General Surgery, Spencer Liles, M.D. was recruited to Surgical Oncology, and Steven Kahn, M.D. was recruited to Trauma/critical care/burn surgery. Recruitment was ongoing for pediatric, and ENT.

**Division of Traumatology/Surgical Critical Care:** Sidney B. Brevard, M.D., F.A.C.S., was named the director of the Division and program director of the surgical critical care fellowship program. Derek Canon, M.D. successfully finished the critical care fellowship and accepted a job in Florida. The Division hired Steven Kahn, M.D. as a trauma/critical care and burn surgeon after finishing a fellowship in surgical critical care and burn surgery at Vanderbilt University.

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.

**Pediatric Surgery:** James Glasser, M.D., F.A.C.S. was hired as the full time pediatric surgeon with Celeste Hollands, M.D., F.A.C.S. covering part time. The Division is recruiting a full time pediatric surgeon.
**Colorectal Surgery:** Dr. Rider was named the Chief of the Division of Colorectal Surgery and a separate service with a chief resident in General Surgery serving on the service. 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 Junior 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 the Departments conferences, and academic activities. Roy Gandy, M.D., F.A.C.S. retired while Henry Barber, M.D., F.A.C.S. and William Richards, M.D., F.A.C.S. have taken over the direction of the general surgery service. One of the major changes was creation of a Chief Resident Clinic which is run by the PGY 5 Chief Resident with close attending supervision. In August Joshua Taylor, M.D. a graduate of Hopkins Medical School and Vanderbilt Surgical Residency program joined the faculty in the Division.

**Breast and Endocrine:** Lynn Dyess M.D., F.A.C.S. has moved to the MCI clinics and has increased her clinical load substantially. Nurse practitioner clinics were added 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 developing the multi-disciplinary Breast Center in the Professional Office Building on the Campus of Childrens’ and Womens’ Hospital to improve the care of women with breast cancer in the upper Gulf Coast. Spencer Liles, M.D. was recruited to provide surgical oncology expertise in breast, melanoma and endocrine cancer. He completed surgical residency at University of Alabama Birmingham and his surgical oncology fellowship at MD Anderson Cancer Center in Houston.

**Plastic and Reconstructive Surgery:** Lynn Dyess M.D., F.A.C.S. served as the interim Medical Director of the USA Regional Burn unit after Dr. Salil Gulati resigned from his faculty appointment. Sidney Brevard, M.D., F.A.C.S., and the Division of trauma/critical care surgery continued to provide expert critical care management of the severely burned patients in the Arnold P. Luterman Regional Burn Unit.

Ronald Brooks, M.D. was recruited to provide expert plastic and reconstructive surgical care. He completed his fellowship in Plastic and Reconstructive surgery at the University of Louisville.

**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 Center of Excellence accreditation from the ASMBS/ACS system in 2016. A new surgical procedure was performed for the first time in the upper Gulf Coast and Dr. Richards is one of only 50 surgeons who have been trained to perform
the procedure in the US. The LINX procedure treats severe GERD through laparoscopic implantation of custom fitted magnetic beads to augment the Lower Esophageal Sphincter. This procedure is part of the Digestive Health Center collaborative treatment of GERD and Barrett’s esophagus with Brooks Cash, M.D. in Gastroenterology. The initiation of this new surgical procedure continues the tradition of collaboration, and multidisciplinary care using the most recent technology to improve the care of patients with digestive health issues.

**Surgical Oncology**: Marcus Tan, M.D., F.A.C.S. 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. Spencer Liles, M.D. has joined surgical oncology with specific interest in breast, melanoma, and endocrine cancer after finishing his surgical oncology fellowship at MD Anderson Cancer center in Houston.

**Research**: The Department has increased collaboration between basic science departments, specifically; the research collaboration between 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 support further clinical/translational research in collaboration with basic science departments and the Department of Surgery. This collaboration between Surgery (Simmons, and Brevard) Pharmacology and the Center for Lung Biology (Gillespie) resulted in multiple publications, and presentations. 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.

Collaboration between Luda Rachek, PhD in the Department of Pharmacology and William Richards, M.D., F.A.C.S. was very fruitful and resulted in submission of NIH grants to investigate the link between insulin resistance and Mitochondrial DNA DAMPs. The grant submission received an excellent score.

Paul Rider, M.D., F.A.C.S. collaborated with Silas Leavesley, PhD, College of Engineering and Thomas Rich, PhD, Department of Pharmacology to develop a novel new endoscope that may be able to differentiate the very earliest signs of neoplastic from normal tissues. Dr. Rider was also able to execute several other clinical studies investigating use of molecular predictors of response to neoadjuvant therapy in patients with rectal cancer, and topical E-101 to prevent surgical site infections.

Marcus Tan, M.D., F.A.C.S. has collaborated with Dr. Lewis Pannell at MCI to investigate the colon lavage fluids to detect early pancreatic cancers. He has also served as PI in several clinical trials of chemoembolization or chemotherapy for treatment of melanoma and liver cancers.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS AND PATENTS


II. PUBLISHED ABSTRACTS


Lemley T. Developing an embedded librarianship program in an academic health science setting, a case study. MLA’15 Librarians without Limits, Medical Library Association 2015 Annual Meeting; 2015 May 15-20; Austin, TX. Abstract no. 1.

Li J, Britton RM, Burnham JF. Adapting to change in the library: space, collection and roles. Southern Chapter Medical Library Association 64th Annual Meeting; 2014 Oct 26-30; Mobile, AL. p. 6.


Li J, Lemley T. Is it cost-effective to purchase print books that have electronic access? MLA’15 Librarians without Limits, Medical Library Association 2015 Annual Meeting; 2015 May 15-20; Austin, TX. Abstract no. 133.


Rudd A, Clanton C, Estis J, Ledoux S. Enhancing interaction among health professions students through interprofessional education. 5th Annual South Alabama Conference on Teaching and Learning (COTL); 2015 May 11-12; Mobile, AL. p. 14.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION

Robert Britton: Member-at-Large, Alabama Health Libraries Association Executive Council; Provisional Member, Academy of Health Information Professionals; Member,
Southern Chapter/Medical Library Association Local Arrangements Committee 2014 Meeting.

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

**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; President, Alabama Health Libraries Association; Web Co-Coordinator, Alabama Health Libraries 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; Award Recipient, Lois Ann Colaianni Award for Excellence and Achievement in Hospital Librarianship.

**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; Chair, Oral History Committee of the Medical Library Association.

**VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS**
Services:
To support the COM curriculum, the Biomedical Library librarians have continued to develop a Clinical Skills Multimedia web page with links to appropriate video and audio tools. A Libguide has been developed with links to all electronically available textbooks for years 1 and 2 and is available on the library website. Other Libguides have been developed for USMLE study materials available and for the departments of surgery and orthopedic surgery. A course librarian has been assigned to each module.

An on-call reference service, which simplified the service desk structure for our students and provided library faculty with more office time to work on projects during slow reference hours, has been established. New communications procedures and a references services policy and procedures manual have been written.

Two librarians continue to attend thirteen hospital committee meetings, including hospital management meetings at both the USA Medical Center and the USA Children’s and Women’s Hospital and 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. One librarian serves on the Faculty Senate, serving on both the Research and Academic Development and Mentoring committees. A librarian serves on the University Library Committee and the Biomedical Library Interim Director serves as ex-officio member of the University Library Committee. One librarian serves on the USA Cancer Control & Prevention Work Group. Two librarians serve as Ad-Hoc members of the College of Medicine Admissions Committee. A librarian serves on the Advisory Committee and the Research Committee for the Student Run Health Clinic and on the Interprofessional Education and Collaboration (IPEC) Executive Committee. A librarian also serves on the Institutional Review Board.

Biomedical Library faculty and staff continue to check citations for both College of Medicine dissertations and for the College of Medicine Annual Report.

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. The site is being developed using the University’s new platform.

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. Blast e-mails are distributed.

Educational sessions are 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 and is ready to be used in curricular modules. 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
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 and 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 used iPads provided by the award budget for actual hands-on practice in locating quality health care information. Project completed.

An award was received from the National Institutes of Health in June 2015. The funds from the grant are being used to establish the NICU Family Resource Center Project at the Hollis J. Wiseman Neonatal Intensive Care Unit at the USA Women's and Children's Hospital. Objectives include: 1) Add health literacy instruction to existing NICU discharge classes at USA Children's and Women's Hospital, located in a high health disparity zip code in Mobile, Alabama. 2) Offer the hospital librarian's research/information services to all NICU patients on a consultation basis. 3) Establish a NICU Family Resource Center—a place where NICU families can go to use iPad stations to research their preemie's health information needs, print out materials as needed, and have access to print brochures on premature infant-specific topics. This space will also be used for librarian-patient information consultations. Project continuing.

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, STARS, and STRIPES. The STRIPS curriculum was revised based on past experience and instruction was focused on community health disparities. 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 librarian is active in the USA Stroke Support Group. Additionally, a librarian volunteers in the computer lab at the Sybil Smith Family Village. Librarians participated in the USA Benefits Fair and the Healthy USA Health Fair. Three librarians participated in the community event, Homeless Connect, providing health literacy assessments to the homeless and helping to manage the health assessment data collected during the event.

Resources:
New resources added during the year include McGraw-Hill e-library USMLE collection and an Informa journal package of 160 titles.

Librarians proposed adopting REDCap (Research Electronic Data Capture), a free research data management system, for university use. After meeting with key
stakeholders to gauge interest and feasibility, the university signed the consortium agreement for REDCap. Usage policies are being developed and the tool will be available soon.

Miscellaneous:
The 65th annual meeting of the Southern Chapter/Medical Library Association was held in Mobile in October 2014. BL librarians served as the Local Arrangements Committee.

A presentation by BePress on Institutional Repositories was hosted by the Biomedical Library.
General Operations

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

The CLB recently submitted its Newsletter in June of 2015. 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 2016. (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 person 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 Research Conference, and the International American Thoracic Society.

Our Critical Care Conference series in conjunction with the Pulmonary and Critical Care 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. Jon Audia, Associate Professor of Microbiology and Immunology, presented Caspase-1 as a Novel Protective Factor of the Microvascular Endothelium During Stress; Dr. Wito Richter, Assistant Professor of Biochemistry & Molecular
Biology, presented *Targeting PDE4 as a therapeutic approach for Cystic Fibrosis*; Dr. William Gerthoffer, Professor and Chair Biochemistry & Molecular Biology, presented *Epigenetic targets for therapy of lung diseases*; Dr. Dhananjay Tambe, Assistant Professor of Mechanical Engineering, presented *Endothelialization of the lung scaffold: identifying the mechanical cues*; Dr. Paul Brett, Associate Professor, Department of Microbiology and Immunology, presented *Development of Vaccines and Rapid Diagnostics for Melioidosis*.

**Extramural Funding**

In the past year, CLB principal investigators submitted 39 grant applications to the American Heart Association (AHA), National Institutes of Health (NIH), and other foundations/industries. To date, seven applications from the previous fiscal year were awarded generating over $5.4 million in new support over the next five years.

Dr. Sarah Sayner, Assistant Professor of Physiology and Cell Biology, received an NIH R01 entitled *Bicarbonate regulation of the pulmonary endothelial barrier*. Dr. Victor Solodushko, Associate Professor of Pharmacology, received an NIH STTR entitled *Minimal piggyBac vectors for chromatin integration*. Drs. Diego Alvarez, Associate Professor of Physiology and Cell Biology and Jonathon Audia, Associate Professor of Microbiology and Immunology received an NIH R01 entitled *Caspase-1, the Microvascular Endothelium, and Infection*. Dr. Mark Taylor, Associate Professor of Physiology and Cell Biology received an NIH S10 equipment grant entitled *Andor Revolution WD Confocal Imaging System*. Dr. Mark Gillespie, Professor and Chair of Pharmacology, received an NIH R01 competitive renewal entitled *DNA Lesions and Gene Expression in Hypoxic Lung Disease*. Dr. Troy Stevens, Professor and Chair of Physiology and Cell Biology, Director of Center for Lung Biology, received a NIH MERIT Award R37 entitled *Store-operated calcium entry: lung endothelial permeability*. Dr. Robert Barrington, Assistant Professor of Microbiology and Immunology, received an American Lung Association Award entitled *A novel mouse model for idiopathic pulmonary alveolar proteinosis*.

**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 12th year of funding, this award 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. Four of these Lung Biology trainees completed requirements for the Ph.D. degree (McLendon, Blair, Kadeba, and R. Morrow). One Lung Biology trainee is supported by an individual predoctoral fellowship (Xu).

The “Did you know?” series of research/historical perspectives, now in its tenth 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 taste buds in the respiratory tract (Jared McLendon) and pressure inside commercial airline cabins during flight.
The fourth annual CLB/Division of Pulmonary and Critical Care Medicine collaborative “Lung Bowl” was held in August 2015. 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 “Pulmonary Resistors” – comprised of graduate students Joshua Deal, Edward Crockett, Kathleen McClinton and Pulmonary Fellow, James Dean II – were the 2015 Lung Bowl Champions.
2014 – 2015
Summary of Scholarly Activities
Center for Healthy Communities

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS


Arrieta MI, Van Buren, Hudson AL, Fisher LG, Mujica FC, Stutsman S, Min H, Hudson CK, Hanks RS, Crook E. Novel use of sentinel surveillance to track health equity progress. 2014 National Institute of Minority Health and Health Disparities Grantees’ Conference; 2014 Dec 1-3; National Harbor, MD. Abstract no. 06.01.03.015.

Butler DL, Hanks RS, Martin MY, Benjamin RM. Study of the effect of disasters in the south on health disparities. 2014 National Institute of Minority Health and Health Disparities Grantees’ Conference; 2014 Dec 1-3; National Harbor, MD. Abstract no. 04.01.03.104.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Crook ED. Invited speaker. The pathways to the STEM fields. College Track New Orleans 2014 Oct 14; New Orleans, LA.

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 third year of his second 5 year cycle of a P-20 grant award 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 highlight this year was our inaugural Faculty Engaged Research Forum held at the Faculty Club in January 2015 with nationally recognized keynote speaker Dr. Linda Silka. 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, MD, PhD, MPH.

The Health Disparities Research Group led the effort of organizing and developing university administrative support for the Engaged Research Forum mentioned above. The University President’s, Provost’s, and VP for Research and Economic Development’s offices were all engaged to garner support for this effort over the several months leading up to the forum. Over 70 faculty representing all of the university’s schools and colleges were present.

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 collaborators in their effort to reduce health disparities.

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. Three former participants, who are now college sophomores, were selected to conduct research as part of the University’s Undergraduate Research Program.

**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 been involved during the summers in research projects of the Center. In the summer of 2015 we had 3 students participate in the summer research program. All made poster presentations at the College of Medicine Research Day on July 31, 2015.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Gay A. Invited speaker. Meaningful use stage 2. Dothan/Wiregrass Medical Group Management Associations Local Chapter Meeting; 2015 Feb 12; Dothan, 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. CSHI actively promotes collaboration on projects with the USA School of Computing, USA Department of Family Practice, the USA College of Nursing, 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 Grant.
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, equipment, patient tracking and resource requests are 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). The information entered into AIMS is utilized to make emergent decisions regarding information and resource coordination for healthcare organizations throughout the state during an event. Revisions and upgrades to enhance AIMS communications between healthcare facilities, usability and accessibility were launched in 2015, resulting in the delivery of 22 AIMS training sessions throughout the state. AIMS serves as the primary situational awareness, communication and information tool for the 11 Healthcare Coalitions established in each of the Public Health areas. CSHI estimates there are over 850 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 Healthcare Coalitions. During 2016 we expect this number to grow as the Healthcare Coalitions continue to expand their membership. 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 11 AIMS exercises were held which included hospitals, CHCs, Nursing Homes, Healthcare Coalitions and Public Health.

ADVANCED REGIONAL RESPONSE TRAINING CENTER (ARRTC)

Now in its twelfth 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 and Supplemental Training). ARRTC Basic is a two-day course designed to provide core disaster response training. Eleven sessions were scheduled by ADPH Emergency Preparedness Areas, fostering interaction with regional response partners. This year, as a subset of the Basic Course, one session for ADPH Center for Emergency Preparedness (Administrative staff and Emergency Preparedness Teams) and one Administrative session was presented. The Administrative session targets 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. Ten Disaster Preparedness Clinical Simulation Courses were offered, each consisting of a one-day interactive training session in the form of simulated clinical scenarios for clinicians charged with disaster response in their organizations. Thirty-eight Road Show Courses were provided, each consisting of a one-day session which takes healthcare preparedness training to healthcare facilities across
the state. Road Show courses allow greater participation of staff, and 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. Several Ebola PPE Training sessions were presented in the road shows. Supplemental Training (Disaster Preparedness Planning) was presented to the Assisted Living Association and the Alabama State Nurses’ Association. During 2014-2015, a combined total of 63 training sessions were presented to 2,217 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 96% rating the program as “Excellent” or “Good.” The Healthcare Emergency Preparedness Professional Certificate Course (HEPP) completed the first program year with 87% of students receiving a certificate of completion. In June 2015, the second HEPP course began with 15 students enrolled representing hospitals, nursing homes and community health centers. The HEPP program is an online course consisting of more than 250 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. HEPP 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. 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) Regional Care Organizations Health Home case management program; 3) data and reporting for the maternity program and 4) an interventional informatics reporting system. CSHI currently manages 1.1 million Medicaid patient records. Approximately 1,000 Medicaid Pt 1st patients are participating in our in-home biomonitoring project. 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 Medicaid Maternity Program in their quest for Better Birth Outcomes and lower Infant Mortality rates. RMEDE™ is used to develop a data collection system with reporting capabilities utilizing recipient information gathered from enrollment activities to evaluate compliance with accepted national standards of practice. RMEDE™ provides Medicaid and their contractors the ability to enter and view the data online. Data are utilized by Medicaid to determine benchmarks for compliance and comparisons.
We have continued our partnership with Alabama Medicaid to support the now statewide Regional Care Organizations Case Management Health Home Program (which replaced the Patient Care Networks of Alabama (PCNA)). This is a primary care case management program which establishes regional networks of care. These are designed to improve the delivery of health care services to Medicaid recipients with complex chronic medical conditions. RMEDE™ serves as the framework used for data management, patient risk stratification, patient case management, aggregation of Medicaid medical and pharmacy claims data, and program reporting needs. Our Primary Medical Provider (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 hopefully reducing the cost of care.

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 designed and developed a web portal for the “Healthy Active Living: An Obesity Prevention and Treatment Quality Improvement Project”. During the second stage, USA performs data analytics by developing a series of reports targeted to measure the impact of the ACHIA initiative among the providers enrolled in the program. USA has also created a second portal as part of the "Help Me Grow Alabama" (HMGA) project for which it also provides a web application for data entry and data analysis services.

The Alabama Regional Extension Center (ALREC) continues to operate within the Center for Strategic Health Innovation at The University of South Alabama (USA). The Office of the National Coordinator (ONC) awarded USA a $10.1 Million grant to assist Alabama providers in achieving Stage 1 of Meaningful Use. The four-year grant was anticipated to end on 4/5/14. ALREC was awarded a no cost extension for one year that ended in April 2015. ALREC was awarded a second no cost extension which ends in June 2016. ALREC was awarded these additional years to continue working with Alabama Priority Primary Care Providers (PPCPs) due to the REC’s proven success in providing ALREC members with education and technical assistance in adopting and implementing certified EHR technology and becoming meaningful users for Stage 1 and/or Stage 2 of Meaningful Use. Currently, ALREC has assisted 1159 PPCP’s to Meaningful Use which is 89% of the overall grant goal of 1304 PPCPs. ALREC anticipates to reach 100% of the grant goal by April 2016. After providers initially reach Meaningful Use, they no longer fall within ONC’s grant guidelines. Therefore, ALREC has established a fee for service line in order to continue assistance to providers throughout the multiple stages of Meaningful Use. Out of the 1700 providers in Alabama that the REC has been working with, over 550 of these providers have renewed their membership with ALREC which has resulted in ALREC earning $301,600 in revenue over the past fiscal year.
2014-2015
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 Jr. Invited speaker. A primary care physicians guide to preventative and acute management of adults with sickle cell disease. American College of Physicians, Alabama Chapter Conference; 2015 Jun 5; Point Clear, AL.

Haynes J Jr. Invited speaker. Sickle cell disease can effect you!!! Edith Mitchell Health Initiatives Scholarship Gala; 2015 Apr 10; Mobile, AL.

Haynes J Jr. Invited speaker. Hospital management of sickle cell pain crisis. Sickle Cell Disease Foundation, Auburn University Montgomery; 2014 Nov 18; Montgomery, AL.

Haynes J Jr. Invited speaker. PCP guide to caring for patients with sickle cell disease. University of South Alabama Physician Assistant Studies Program; 2014 Oct 15; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: America’s Top Doctors; Best Doctors in America; Observational Study Monitoring Board, Chair, 2RO1HL079937-05 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); Data and Safety Monitoring Board (DSMB) for the Clinical Trials Consortium; PhenX Sickle Cell Disease Work Group 1: Cardiovascular, Pulmonary and Renal Recruitment – PhenX Consensus Measures for Phenotypes and eXposures

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 recently completed a 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.” 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’s 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 2014-2015 academic year marks the close of the 16th year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. This clinic now serves over 200 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 Internal Medicine, Family Medicine, and Pediatrics 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, Ms. T’Shemika Perryman, RN and Ms. Aisha Davis, Case Manager. The pediatric clinic is staffed by Drs. Felicia Wilson, Hamayun Imran, Hafeez Siddiqui, Ms. Ardie Pack-Mabien, Nurse Practitioner, and Ms. Aisha Davis, Case Manager. Internal Medicine, Pediatric Medicine, and Family Medicine residents rotate on a monthly basis through the Sickle Cell Clinics.

Ms. Pack-Mabien, Ms. Perryman and Ms. Davis 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 fourth 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:** Center faculty continue to provide a broad series of lectures throughout the academic and private medical community and continue 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 14 years. This conference held on Saturday May 2, 2015 was entitled, “Practical Issues in Sickle Cell Disease XIV: The Good, the Bad, the Misunderstood.” The keynote speaker and recipient of the Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Endowed Lectureship Award, Ms. Wanda Borders, LBSW, discussed the significance of the social worker’s role as an educator, counselor, case manager, advocate and liaison in optimizing patient care and promoting hope. She is Associate Director of the Central Alabama Chapter of the Sickle Cell Disease Association of
America, based in Birmingham, Alabama. Dr. Felicia Wilson, Professor of Pediatrics, Division of Hematology/ Oncology at the University of South Alabama, addressed the general topic of sickle cell trait and raised the question of whether sickle cell trait is benign when conditions such as splenic infarction, renal medullary carcinoma and sudden death are clearly associated with it. Sudden death in athletes with sickle cell trait was explored by Dr. Lynn Batten, Associate Professor of Pediatrics, Division of Cardiology at the University of South Alabama. She also reviewed the current National Collegiate Athletic Association requirement that all athletes be tested for sickle cell trait, despite objections from the American Society of Hematology. Ms. Carolyn O’Bryan Miller, LCSW, PIP, Associate Director, Project Development and Quality Improvement, Managed Care Division, Alabama Medicaid, addressed coming changes in the way that Medicaid services will be provided. With this shift in service delivery to Regional Care Organizations, a greater emphasis on prevention, quality initiatives and treatment is expected to result in an improvement in the quality of care. Karen Fagan, M.D., Professor of Medicine and Director of Pulmonary and Critical Care Medicine, University of South Alabama, provided an update on pulmonary hypertension in sickle cell disease. Dr. Fagan emphasized the lack of specificity of the tricuspid regurgitant jet velocity of ≥ 2.5 m/s obtained by Doppler echocardiography in diagnosing PH; she also emphasized that right heart catheterization remains the gold standard in diagnosis. The most common reason for hospitalization in sickle cell disease is pain crisis, which often requires the judicious use of opioid analgesics for effective management. Jack A. DiPalma, M.D., Professor of Medicine and Director of Gastroenterology and the Digestive Health Center, University of South Alabama, spoke on opioid-induced constipation. Dr. DiPalma emphasized that constipation is not a trivial problem and that many of our patients suffer in silence. Errol Crook, M.D., Professor and Chair, Department of Internal Medicine, University of South Alabama, provided an update on chronic kidney disorders in sickle cell disease. He emphasized that “renal disease in sickle cell is common, but it may not be commonly recognized.” He offered a comprehensive review, addressing disorders affecting the kidney in sickle cell disease, as well as early diagnosis and treatment strategies. The Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Lectureship Endowment is now in its 8th year of operation and was established to provide funding to support the education agenda in perpetuity of the Sickle Cell Center.

Going forward, we will 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 Vice President. 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 fourth year as Assistant Dean of Diversity and Inclusion in the USA College of Medicine. The Center is now in its 9th year as a collaborator with Alpha Phi Alpha Fraternity, Franklin Primary Health Center, Inc., and the Sickle Cell Disease Association of America, Mobile Chapter in the annual blood drive. The drive is held in September of each year, averaging 51 units of blood collected for the last 4 years. In 2014, a small grant from a local bank and contributions from two other community-based organizations has allowed the Center to begin planning and implementation of the Learning Resource and Development Center (LRDC) which will support the Pediatric to Adult Care Transition Program serving youth with sickle cell disease between the ages of 13-19 years.
Representing 39 graduating classes (1976-2015), the total number of M.D. graduates of the USA College of Medicine is 2,473 (not including former USAMC housestaff or graduates of the Ph.D. program).

After the retirement of Melodie Robinson, Assistant Director, Medical Alumni Relations, the Medical Alumni Association and Office of Medical Alumni Relations welcomed new leadership in 2014: Racheal Banks, Ph.D., Director of Health Sciences Development and Alumni Relations and Ann Eleece Kouns, Assistant Director, Medical Alumni Relations.

2014-2015 Medical Alumni Association Board of Directors

**Officers**
- Dr. Kit Outlaw ’92, 2014-2016 President
- Dr. Bill Blaylock ’89, Vice President
- Dr. John Todd ’88, Secretary/Treasurer
- Dr. Christopher Semple ’85, Chairman, Alumni and Student Services Committee

**Directors**
- Dr. Oscar Almeida, Jr. ’85
- 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. Maryella Sirmon ’78

During the 2015 Annual Meeting of the Board of Directors, 4 new directors were appointed to the Board of Directors and will begin their terms with the 2015-2016 year:

- Dr. Matthew McIntyre ’06
- Dr. Ed Panacek ’81
- Dr. Juan Ronderos ’85
- Dr. Brandi Trammell ’02
Scholarship Recipients for the 2014-2015 Academic Year

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<th>Student Name</th>
<th>Scholarship Received</th>
<th>Amount of Scholarship</th>
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<tr>
<td>Stephen Ambrose</td>
<td>2015 Medical Alumni Association Scholar</td>
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<tr>
<td>Megan Carpenter</td>
<td>Les Sockwell Memorial Award</td>
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<td>Carrie Ann Foster</td>
<td>Christian Grinaker Award</td>
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<td>Jason Largen</td>
<td>Sid Huggins Family Practice Award</td>
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<td>Charles Wiles</td>
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<td>Griffin Collins</td>
<td>Medical Alumni Leadership Award</td>
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<td>$18,500</td>
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2015 Medical Alumni Reunion Weekend


Each year, the Medical Alumni Association selects an outstanding USA College of Medicine leader who embodies professionalism, compassion, and integrity. The MAA was proud to recognize Dr. J. Allan Tucker, M.D., Chair of Pathology and Director of Anatomic Pathology, with the 2015 Distinguished Service Award.

As part of the Medical Alumni Reunion Weekend, Continuing Medical Education (CME) courses are offered for those attendees who are interested in earning credits while attending the Annual Reunion. This year, the total number of credits available for attendees to earn increased from 6 to 11 and included the following topics:

- **Ehab Molokhia, M.D.:** *The Patient Centered Home*
- **Haley Ballard, M.D. ’10:** *Understanding the Patient Movement*
- **Mark Williams, M.D., M.B.A., J.D. ’80:** *Healthcare Reform: Where Are We Headed?*
- **Patrick Bosarge, M.D. ’00:** *Translational Research: Advances in Human Health and Well-Being*
- **Brooks Cash, M.D.:** *Advances in Functional Gastrointestinal Disorders*
- **Ed Panacek, M.D., M.P.H. ’81:** *A Potpourri of Recent Medical Literature*
- **Sandra Parker, M.D.:** *Coping with Disasters: The Impact of Natural Disasters on Mental Health*
- **Steve Stokes, M.D. ’80:** *Medical Humanitarianism: Compassionate Care*
- **Brooks Cash, M.D.:** *Evidence Based Medicine: Studying the Validity of Diagnostic Test and Therapeutic Trials*
- **Mark Williams, M.D., M.B.A., J.D. ’80:** *Developing Physician Leaders: A Call to Action*
- **Patrick Bosarge, M.D. ’00:** *Teletrauma: The Role of Technology in Surgical Emergencies*
Student Events Hosted

The *Medical Alumni Speaker Series* presented 3 lectures for the USA College of Medicine Students during the 2014 Academic Year:

- **Monica Williams-Murphy, M.D. ’01:** *Addressing End of Life Issues*
- **Sid Brevard, M.D.’87:** *Inside Charity Hospital During Hurricane Katrina*
- **David Adkison, M.D.’84:** *Adventures in Medicine: Practicing in China*

The Medical Alumni Association also sponsored a graduation party for the Class of 2015 at the Bluegill Restaurant.

Student Events Sponsored

The Medical Alumni Association contributed funds to the following student events and activities:

- Class of 2017 White Coat Ceremony
- 2015 Match Day
- Dawg Day (Co-hosted with the Basic Medical Science Student Organization)
- Asclepian Ball
- College of Medicine Student Halloween Party
- Class of 2015 Skit Night

**2014-2015 Annual Fund and Membership Drive Results**

<table>
<thead>
<tr>
<th>Description</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
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<td>Annual Fund Contributions</td>
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<tr>
<td>Amount Raised via Memberships</td>
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The Division of Medical Education and Student Affairs is responsible for all undergraduate education programs in the College of Medicine. Activities in the Division of Medical Education and Student Affairs are accomplished through offices located in the Medical Sciences and Mastin Buildings.

Student Affairs

The Medical Association of the State of Alabama, Medical Society of Mobile County and University of South Alabama Medical Alumni Association sponsored Match Day festivities which were held at the Mobile Convention Center on March 20. The Match results were impressive and included one student who matched in Psychiatry at Harvard Longwood Psychiatry, one who matched in plastic surgery at the University of Kentucky, one student who matched in Ophthalmology at Tulane University, and two students who matched in Neurological Surgery. For the first time in school history, ten students matched in Psychiatry. Students matched in eighteen different states and will be going to programs such as Wake Forest, Tulane, St. Louis Children’s Hospital, Barnes-Jewish Hospital at Washington University, Emory, and Icahn School of Medicine Beth Israel in New York. Sixty-one percent of the students will remain in Alabama and seventeen students matched here at USA.

Honors Convocation for the College of Medicine was held Friday evening, May 8, 2015, in the Mitchell Center on the USA campus. Dr. J. Allan Tucker, Professor and Chair of Pathology, was selected as the faculty speaker by the Class of 2015 and Alonso I. Heudebert was selected as class speaker. Awards for academic achievement and community service were announced and the Hippocratic Oath was administered. Graduation was held at 10 a.m. on May 9, 2015.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2014-2015 is outlined below:

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## Disciplines in which Electives were taken

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*We joined the AAMC VSAS in 2014 and no longer rotate foreign students

### Months Electives Taken

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Letters of evaluation (Dean’s Letters) were written for each of the 74 seniors who graduated in May, 2015. Students applied to 2611 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Seventy-four (74) students matched for residency positions. Seventy-one (71) of the May graduates used the NRMP as their primary means of obtaining residency and three (3) graduates participated in a specialty match.

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<th>Year</th>
<th>Number of Graduates</th>
<th>Match Utilized</th>
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<td>63</td>
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<td>2015</td>
<td>74</td>
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## University of South Alabama Seniors
### Residencies Received by Discipline

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<th>Discipline</th>
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<th>Class of 2012</th>
<th>Class of 2013</th>
<th>Class of 2014</th>
<th>Class of 2015</th>
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<td>PRIMARY CARE:</td>
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<td>32 (42%)</td>
<td>34 (47%)</td>
<td>22 (35%)</td>
<td>31 (42%)</td>
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<tr>
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<td>20 (29%)</td>
<td>14 (18%)</td>
<td>21 (29%)</td>
<td>12 (19%)</td>
<td>19 (26%)</td>
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<td>7 (10%)</td>
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<td>3 (4%)</td>
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<td>3 (4%)</td>
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<td>6 (8%)</td>
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<tr>
<td>Med/Peds</td>
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<td>3 (4%)</td>
<td>3 (4%)</td>
<td>3 (5%)</td>
<td>3 (4%)</td>
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University of South Alabama Seniors
Residencies Received by State

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<th>USA Hospitals (Mobile)</th>
<th>Out-of-State</th>
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<td>31%</td>
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<td>2013</td>
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<td>38%</td>
<td>14</td>
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<td>2014</td>
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<td>2015</td>
<td>29</td>
<td>39%</td>
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Seventy-four seniors received the Doctor of Medicine degree at Commencement on May 9, 2015. On the evening of May 8, the College held its fortieth Honors Convocation, which took place in the Mitchell Center. Dr. J. Allan Tucker addressed the class and Alonso I. Heudebert responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award – Justin Paul McCormick
Merck Award – William Christopher Smith, Jr. and William Allan Tucker
Glasgow-Rubin Achievement Citations – Angela Jean King
Leonard Tow Humanism in Medicine Award – Alonso Ignacio Heudebert and
    W. Bogan Brooks, M.D.
Medical Alumni Leadership Award – Griffin Sinclair Collins
Phoassurance Award – JaneMarie Frances Freeman
Community Service Award – Griffin Sinclair Collins and Timothy Grant Parker, Jr.
SNMA Leadership Award – Christopher James Hoffman
Outstanding Student in the Anatomical Sciences – Justin Paul McCormick
Charles M. Baugh Award in Biochemistry – Justin Paul McCormick
William A. Gardner, Jr. Pathology Award – Angela Jean King
Charles W. Urschel Achievement Award in Physiology – Angela Jean King and
    William Christopher Smith, Jr.
Pharmacology Achievement Award – William Christopher Smith, Jr.
Microbiology and Immunology Achievement Award – William Christopher Smith, Jr.
Neuroscience Achievement Award – Carl Mandel Nechtman III
Hollis J. Wiseman Award for Excellence in Pediatrics – Megan Elizabeth Carpenter
Samuel Eichold Award – Alonso Ignacio Heudebert
The Meyer/Anderson Orthopaedic Excellence Award – William Allan Tucker
John W. Donald Memorial Award in Surgery – Justin Paul McCormick,
    William Christopher Smith, Jr. and
    William Allan Tucker
H. C. Mullins, M.D. Award – Laura Ann Hyer
Obstetrics/Gynecology Award – Megan Elizabeth Missanelli
Excellence in Emergency Medicine Award – Brian Thomas Buning
American Academy of Neurology (AAN) Award – Miles Austin Cobia
Excellence in Psychiatry Award – Omar Abdelhamid Mazher
Grade Distribution 2014 - 2015 Academic Year

### FRESHMAN COURSES

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### SOPHOMORE COURSES

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### JUNIOR CLERKSHIPS

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### Academic Progress of Medical Students

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

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<td>75</td>
<td>77</td>
<td>75</td>
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<tr>
<td><strong>Graduates</strong></td>
<td>69</td>
<td>78</td>
<td>73</td>
<td>63</td>
<td>71</td>
</tr>
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<td><strong>True Attrition</strong></td>
<td>*</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>4</td>
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<tbody>
<tr>
<td><strong>Dismissed</strong></td>
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<td></td>
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</tr>
<tr>
<td>Freshmen</td>
<td>1</td>
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</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>
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<tr>
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<td>0</td>
<td>0</td>
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<td>0</td>
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<tr>
<td><strong>Placed on Leaves of Absence (LOA)</strong></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sophomores</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>6</td>
<td>11</td>
<td>9</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td><strong>Transferred to Another Medical School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Withdrew</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td><strong>Admitted with Advanced Standing or Re-entered from Graduate School</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td>2</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td><strong>Deceased</strong></td>
<td>0</td>
<td>0</td>
<td>1</td>
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<tr>
<td><strong>Repeated All or Part of the Year</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>11</td>
<td>5</td>
<td>3</td>
<td>3</td>
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<tr>
<td><strong>Enrolled on a Decelerated Schedule</strong></td>
<td></td>
<td></td>
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<tr>
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<thead>
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<td><strong>Total</strong></td>
<td>21</td>
<td>18</td>
<td>17</td>
<td>19</td>
<td>22</td>
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<tr>
<td><strong>Freshmen</strong></td>
<td>7</td>
<td>4</td>
<td>4</td>
<td>7</td>
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<tr>
<td><strong>All Other Classes</strong></td>
<td>14</td>
<td>14</td>
<td>13</td>
<td>12</td>
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United States Medical Licensure Examination (USMLE) Step 1
First Time Takers

<table>
<thead>
<tr>
<th></th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
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<tbody>
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<td>72</td>
<td>75</td>
<td>69</td>
<td>74</td>
<td>72</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>222</td>
<td>224</td>
<td>227</td>
<td>228</td>
<td>229</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>220</td>
<td>218</td>
<td>226</td>
<td>224</td>
<td>230</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>9%</td>
<td>6%</td>
<td>5%</td>
<td>4%</td>
<td>4%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>4%</td>
<td>8%</td>
<td>3%</td>
<td>7%</td>
<td>3%</td>
</tr>
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</table>


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

<table>
<thead>
<tr>
<th></th>
<th>2011</th>
<th>2012</th>
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<th>2015</th>
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<tr>
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<td>71</td>
<td>77</td>
<td>73</td>
<td>65</td>
<td>76</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>233</td>
<td>237</td>
<td>238</td>
<td>240</td>
<td>240</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>236</td>
<td>234</td>
<td>233</td>
<td>242</td>
<td>242</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>3%</td>
<td>2%</td>
<td>2%</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>3%</td>
<td>1%</td>
<td>5%</td>
<td>3%</td>
<td>4%</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; 209 beginning with the Class of 2014

United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th></th>
<th>Class of 2008</th>
<th>Class of 2009</th>
<th>Class of 2010</th>
<th>Class of 2011</th>
<th>Class of 2012</th>
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<tbody>
<tr>
<td>National Percentage Passing</td>
<td>95</td>
<td>96</td>
<td>97</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>95</td>
<td>98</td>
<td>92</td>
<td>96</td>
<td>93</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>65 (a)</td>
<td>61 (b)</td>
<td>65 (c)</td>
<td>68 (d)</td>
<td>67</td>
</tr>
</tbody>
</table>

(a) 65/65 students had taken Step 3 as of 12/11
(b) 63/63 students had taken Step 3 as of 6/14
(c) 65/66 students had taken Step 3 as of 6/14
(d) 68/69 students had taken Step 3 as of 6/14
Evaluation of Student Performance in the First Postgraduate Year
by Residency Program Directors and/or Faculty

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 2014 graduates. A total of 39 responses were received out of 63 requests. Below is a summary of the responses to the four major areas that were assessed. NOTE: One survey form was returned incomplete and therefore not included in the totals below.

<table>
<thead>
<tr>
<th></th>
<th>Class of 2011</th>
<th>Class of 2012</th>
<th>Class of 2013</th>
<th>Class of 2014</th>
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</thead>
<tbody>
<tr>
<td><strong>Medical Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>31%</td>
<td>23%</td>
<td>13%</td>
<td>36%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>43%</td>
<td>29%</td>
<td>35%</td>
<td>38%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>20%</td>
<td>38%</td>
<td>40%</td>
<td>18%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>2%</td>
<td>10%</td>
<td>10%</td>
<td>8%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>4%</td>
<td>0</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Data Collection</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Top Fifth</td>
<td>30%</td>
<td>26%</td>
<td>13%</td>
<td>39%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>44%</td>
<td>42%</td>
<td>48%</td>
<td>34%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>18%</td>
<td>29%</td>
<td>35%</td>
<td>23%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>6%</td>
<td>3%</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
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<td>2%</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>31%</td>
<td>20%</td>
<td>15%</td>
<td>39%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>43%</td>
<td>43%</td>
<td>40%</td>
<td>31%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>22%</td>
<td>34%</td>
<td>38%</td>
<td>20%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>2%</td>
<td>3%</td>
<td>5%</td>
<td>8%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
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<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Professional Attitudes</strong></td>
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<tr>
<td>Top Fifth</td>
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<td>47%</td>
<td>43%</td>
<td>46%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
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<td>29%</td>
<td>27%</td>
<td>39%</td>
</tr>
<tr>
<td>Middle Fifth</td>
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<td>10%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
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<td>7%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
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<td>2%</td>
<td>0%</td>
</tr>
</tbody>
</table>
CURRICULUM COMMITTEE

The Curriculum Committee met the first and third Wednesdays of the month. Meeting agendas alternated between subcommittee reports with recommendations for action and thought sessions designed to educate committee members on national trends in medical education and changing expectations in the accreditation requirements for the undergraduate medical education (UME) program.

The Curriculum Committee is charged by the LCME with oversight of the UME curriculum. This encompasses the establishment of policies and practices for design, delivery, monitoring, mapping and assessment of educational content, monitoring policy execution and assuring that curricular problems are detectable and effectively addressed. The Committee was chaired by Tony Gard, PhD.

Seven standing subcommittees met monthly and performed the major workload of the parent committee in 2014-2015. The subcommittees and their chairs included:

Assessment and Evaluation (Tony Gard, PhD)
Clerkship Directors (TJ Hundley, MD)
Curriculum Integration (Jeff Sosnowski, MD, PhD)
Faculty Development (Benjamin Estrada, MD)
Fourth Year (Benjamin Estrada, MD)
Module Directors (Jonathan Scammell, PhD – 2014, Abu Al-Mehdi, MD, PhD – 2015)
Student (Will Ricks, M2)

CURRENTS: A New Curriculum Committee Newsletter: To inform faculty, residents and students of ongoing developments, achievements and events in the UME program, the CURRENTS electronic newsletter was established. The first two of three issues to be distributed yearly were released in January and June. Issues provide encapsulated descriptions of projects captured at different stages of the continuous quality improvement process adhering to the elements of PDSA cycle of Planning, Doing, Studying and Acting.

Revision of the Pre-Clerkship Clinical Skills Curriculum: Acting on summary reports of student concerns, an ad hoc subcommittee was appointed in December to study the preclinical skills curriculum and make recommendations for improvement to the parent committee in March. As a result, the Curriculum Committee approved several programmatic changes effective in the fall of 2015. The position of Medical Director of Clinical Skills was created and filled by the appointment of Christen Altermatt, MD, Adjunct Assistant Professor of Obstetrics & Gynecology. Dr. Alison Rudd, EdD, MSN, Assistant Director of Simulation, will continue to develop the College’s Standardized Patient program. A developmental training program was adopted in which student acquisition of clinical skills toward competency is assessed by summative examinations consisting of four gateway OSCEs interspersed across the four semesters of the freshmen and sophomore years. The instructional sequence remains fully integrated and formatively assessed within and across pre-clerkship modules. Program improvements were redesigned to enhance cumulative knowledge and clinical reasoning skills.
New Grading System and Competency-Based Curriculum Launched in Junior Clerkships:
The Honors-Pass-Fail grading system, in use for pre-clerkship courses since 2012-2013, was implemented for the 2014-2015 clerkship rotation sequence. To standardize the clinical assessment of student progress across clerkships, a Competency-Based Evaluation (CBE) developed by the Clerkship Directors’ subcommittee was approved for implementation in 2014-2015. This tool allows clinician preceptors to rate a student’s progress in each rotation across nine different performance subdomains representing the six core AGCME competencies. Comprehensive progress reports given to the Committee in mid-year and July by Dr. T.J. Hundley, prompted scoring refinements and additional faculty development for executing the CBE in 2015-2016. The CBE was adapted for assessment of students on acting internship rotations.

Planning for Entrustable Professional Activities: The Committee’s first thought session in October was highlighted by Dr. TJ Hundley’s interactive presentation on Entrustable Professional Activities (EPAs). Medical schools are currently transitioning to clinical performance milestones for which discrete tasks define competency and measurable progress from a novice level to an advanced learner. These milestones focus on what a learner is able to do and what the lay public expects a physician to do independently. The Curriculum Committee recognizes the need for USACOM to adopt an EPA-based assessment program in the near future. Accordingly, the Committee has charged the Clerkship Directors’ subcommittee with developing an action plan by October 2016 for the comprehensive incorporation of EPAs across the undergraduate continuum.

USACOM Testing Center: Having opened in February, this dedicated state-of-the-art facility is used by the Division of Medical Education to administer all pre-clerkship module examinations and online NBME shelf and NBME customized assessments for pre-clerkship and third year students. Located on the third floor of the Baugh Biomedical Library, the center is equipped with 78 ethernet-linked computer workstations pre-configured to specification, centralized security monitoring, and a proctor’s control booth capable of delivering on-screen instructions.

USACOM Adopts the Te4Q Quality Improvement Process: A robust quality improvement program is an accreditation requirement for the COM. To be successful, the process must integrate the needs of UME and GME programs, and the health care enterprise. The faculty must be developed to understand the science of quality improvement. In the Spring of 2015 the Curriculum Committee approved the adoption of the AAMC-supported Te4Q (Teach for Quality) program. With the goal of identifying 1-3 projects that will benefit the institution, the participating faculty and staff were identified and have gone through pre-work to determine their proficiency in quality improvement methods. This is in preparation for a workshop conducted by AAMC representatives in September 2015, which began the actual process of project development.

Process for Curriculum Committee Review of Clerkship Performance: To parallel the annual performance review of pre-clerkship modules, the criteria and process for annual review of the junior clerkships was approved in May. Conducted by the Assessment and Evaluation subcommittee and external reviewers on the Curriculum Committee, the review cycle for clerkships started in August. Summary reports of strengths and recommended improvements will be presented to the parent committee for consideration and final approval. Beginning this year, each clerkship will undergo an in depth review, consisting of student outcome measures and score trending, competency-based
evaluation scores, student evaluations including the AAMC-GQ and an evaluation of compliance with LCME accreditation elements.

**Module Directors’ Resource:** A shared goal of the Module Directors’ subcommittee and Assessment and Evaluation subcommittee was met with the production of a Module Directors’ Reference, which details the standardized guidelines for design, delivery, assessment, evaluation and staff support for the pre-clerkship module.

**The Student Subcommittee:** In 2014-2015, the Student Subcommittee (SSCCUSA) was formally established as a standing subcommittee of the parent Curriculum Committee. Chaired by Will Ricks (M2), the subcommittee recruits student representatives across the four years. Membership on the parent Curriculum Committee is not required. The subcommittee completed its first major goal of establishing by-laws designed to standardize yearly committee performance as leadership roles are passed from class to class. Significant progress was made to develop a process for a student-driven feedback mechanism to pre-clerkship module directors. This will provide constructive suggestions complementing the formal student evaluations administered by the Division of Medical Education. The feedback program was piloted for M1 modules and has been instrumental in refining module content and delivery.

**Curriculum Inventory:** In partial fulfillment of the accreditation requirement to map the undergraduate educational objectives of the COM, the AAMC guidelines for USA in 2014-2015 were met. Block objectives for pre-clerkship modules and clerkships were mapped against institutional objectives and submitted to the AAMC’s Curriculum Inventory Portal (CIP) by the Division of Medical Education. This process has included mapping of the USACOM objectives to the AAMC’s Physician Competency Reference Set (PCRS). All block objectives for M1 and M2 courses were submitted to the CIP during the fall of 2014. The 2015 submission will include M3 clerkships. Working with the clinical departments, the Fourth Year subcommittee compiled competency-based block objectives for senior acting internships and elective rotations.

**Guided Remediation Program for Students at Risk:** To address the need for early identification and remediation of students whose academic progress is determined to be at risk, a guided summer remediation program was approved for piloting in June. Launched with the support of Kaplan Medical, students were given free access to customized content areas and assessments developed by Kaplan to align with the organ-based undergraduate medical curriculum. Student compliance and success of the program is monitored administratively by Dr. Jeff Sosnowski, Assistant Dean for Curriculum Integration.

**LEAP Director:** In 2016-2017, administration of the Longitudinal Experience in Ambulatory Care Program shifts from the Department of Family Medicine to the Division of Medical Education. To prepare for the change, Barry Porter, PhD, was appointed in July to coordinate the LEAP program for the Division in 2015-2016 and will assume the Directorship in the following year. Established by Carol Motley, MD, Department of Family Medicine, the LEAP program has developed as an important fixture of the competency-based pre-clerkship curriculum and provides beginning medical students at USA with early exposure to various patient care settings with preceptors located at participating clinics across the greater Mobile area.
**Standardized Test Scores Reflect Curriculum Renewal:** During 2014-2015, standardized test scores continued their pattern of upward trending by meeting and exceeding national norms. Mean scores on NBME shelf exams for all seven clerkships exceeded national averages for the year, ranging from the 64th%tile to the 80th%tile. On STEP1 USA students (230) topped the national average (229) in the final NBME report released in March. The mean score for USA first-time takers of STEP2CK (242) topped the national average (240).
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The officers for 2014-2015 were President – Bryn Culpepper; Vice President – Kyndal Sonnier; and Secretary/Treasurer – Chris Cordes. The Faculty Advisors were Dr. Susan LeDoux, Dr. Kelly Roveda, and Dr. Haley Ballard.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) Volunteer opportunities for M1s-M4s at the USA Student-Run Free Clinic were discussed and contact information about how to get involved was distributed.

2) Dr. Haley Ballard was appointed as a new faculty sponsor.

3) Carter Tisdale and Brendon Ingraham both from the class of 2017 were appointed to represent the College of Medicine for the USA SGA.

4) Discussed updating the Student Handbook and the Honor Code to better reflect the new curriculum, testing procedures, and culture.

5) A Student Interest Groups calendar project was initiated in order to display all scheduled meetings by the various Interest Groups in one place.

6) Discussed the Residency Database that the Medical Alumni Association is developing to be able to provide alumni contact information to students.

7) With Dr. LeDoux and the College of Medicine Alumni Affairs Office, the white coats were redesigned to include a student physician patch on the sleeve designed by Dr. Charles Rodning and Paul Taylor.

8) Approved funding for the Gold Humanism Solidarity Day fundraiser in February, 2015.

9) M1s and M2s organized an Anatomical Gifts Memorial Service for families of donors that was held on May 1, 2015, in the Laidlaw Performing Arts Center.

10) Contributed money to Dr. Phillip Fields’ fundraiser for Team ALLY Foundation, a Boston Marathon charity.

11) Gumbo Chili Cook Off was postponed until Fall 2015, in order to get more support for the event.

12) The Halloween party was held on October 21, 2014, at O’Daly’s.

13) The Christmas party was held on December 12, 2014, at Boo Radley’s.
14) Match Day was held on March 20, 2015, at a new location: Mobile Convention Center.

15) The Asclepian Ball was held on April 10, 2015, at the Athelstan Club. Student Assembly approved funding for this event.

16) Skit Night was held on May 1, 2015, at the Battle House Ballroom.

17) Honors Convocation was held on May 8, 2015, and graduation on May 9, 2015, both at the Mitchell Center.

18) White Coat Ceremony for the Class of 2017 was held on June 20, 2015, at the Mitchell Center. Gold Humanism Honor Society members from the Class of 2016 were officially presented with certificates and pins during the White Coat Ceremony.

19) New Student Assembly officers elected for 2015-2016: President – Emily Spurlin; Vice President – Abby Rowland; Secretary/Treasurer – Jacob Thomas.
## OFFICE OF FINANCIAL AID

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<tr>
<td>Total Financial Aid</td>
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<td>$10,740,663</td>
<td>$10,141,055</td>
<td>$10,600,638</td>
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<td>252</td>
<td>248</td>
<td>270</td>
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<td>Perkins</td>
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<td>627,811</td>
<td>558,000</td>
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<td>Outside Private Loans</td>
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<td>$9,529,153</td>
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<td>University Sponsored</td>
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<td>713,230</td>
<td>690,012</td>
<td>749,146</td>
<td>801,174</td>
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<td>162,989</td>
<td>169,613</td>
<td>150,146</td>
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<td>Military – Army</td>
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<td>48,592</td>
<td>13,044</td>
<td>21,682</td>
<td>28,256</td>
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<td>Military – Navy</td>
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<td>72,591</td>
<td>129,130</td>
<td>189,810</td>
<td>140,785</td>
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<td>Military - Air Force</td>
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<td>144,010</td>
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<td>25,471</td>
<td>26,616</td>
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<td>Post 9-11 GI Bill</td>
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<tr>
<td>Faculty Staff Reimbursement</td>
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<td>$1,309,521</td>
<td>$1,211,510</td>
<td>$1,421,082</td>
<td>$1,483,528</td>
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</table>

| Average Indebtedness of a Graduating Senior | $127,659 | $136,604 | $141,760 | $149,655 | $154,938 |

An Emergency Loan Fund is available to medical students. Loans of up to $500 may be obtained by students through a fund administered by the Office of Student Affairs and Medical Education for a period of up to 60 days for the purpose of alleviating an unanticipated financial need. There is no interest charged. During the period August 1, 2014, through July 31, 2015, five (5) emergency loans were approved for a total amount of $2,400.00. During that period, four (4) payments totaling $1,900.00 was paid back into the loan account.
OFFICE OF EDUCATIONAL ENRICHMENT

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

The summer of 2015 was the first summer that the DREAM program was completely focused on preparing both Phase I and Phase II students for the new MCAT-2015. The previous three summers served as transitional steps toward this summer. There were 11 entering students in Phase I and 5 returning students in Phase II of this year’s program which began on June 1, 2015, and concluded seven and a half weeks later on July 21, 2015.

Per the Association of American Medical Colleges, the new MCAT exam covers four broad areas assessing competency in 10 Fundamental Concepts that all entering medical students are expected to possess. Phase I students worked on Concepts 1-5 which covered topics from the old MCAT exam (biology, chemistry, physics, organic chemistry, and new for 2015, biochemistry). Phase II students studied Concepts 6-10 which covered Environmental Processing, Behavior, Individuals and Society, Society and Culture, and Social Inequality, i.e., Sociological and Psychological Concepts and Behaviors.

The AAMC has partnered with the Khan Academy to produce an MCAT preparation website that includes over 900 short videos (You Tube viewer compatible) and over 400 scientific or clinical passage questions organized around the Fundamental Concepts. Instructors made liberal use of this unique resource in training the DREAM students.

Four rising COM II students were responsible for the MCAT courses taught to Phase I. A recognized outstanding English and Statistics teacher and Ph.D. candidate in Education at the University of South Alabama taught Critical Reading using the Pearson MyReading Lab© instructional program. The Pre-medical Advisor hosted the students in her MCAT Preparation TBL program offered two times per week for six weeks. Verbal Reasoning was taught by a COM faculty member who facilitated interactive discussions of Current Topics in Clinical Humanism. Another COM faculty member facilitated clinical case studies of health issues prevalent in minority populations. Each week ended with an invited seminar presented by prominent local community physicians or members of the USA faculty.

A well published and recognized professor of social justice again taught three of the Phase II MCAT sociological Fundamentals, and one of our COM faculty and program curriculum developer taught the other two psychological Fundamentals courses along with Medical Etymology. Other Phase II activities included a weekly session in the Clinical Simulation Laboratory and shadowing of USA and community physicians.

One practice MCAT was given this year compared to three last year. The AAMC no longer makes the old exams available and to date, have replaced them with only one new practice exam. Our students took this new practice exam at the conclusion of the program. Results are not comparable as there are not enough data to compare the new test scores.

All Phase II students successfully completed the second summer of the program. Three of the five
Phase II students had studied for and taken the old MCAT prior to their return this summer, and the three students earned the requisite score or higher for automatic conditional admission. The two remaining students are awaiting their recent MCAT results.

Ten of the eleven Phase I students completed the program with scores of 80% or higher. The other student finished with a final score of 79%. He had not taken a course in Physics prior to entering the program as his University only offers the course in the junior year. However, he is being invited back next summer. Several students have indicated their intentions to attempt the new MCAT prior to returning next summer. The ones who are successful will undertake planned pre-matriculation activities to prepare them for the first semester of medical school.

PHASE I
The composition of the 2015 Phase I class of DREAM students was eleven (11) students; eight (8) females and three (3) males representing eight (8) colleges and universities:

- Alabama State .................. 1
- Stillman College .................. 1
- Univ. of South Alabama .......4
- Univ. of Southern MS ..........1
- Howard University` ............1
- Auburn at Montgomery .........1
- Tuskegee University ..........1
- Univ. of West AL .................1

These participants were residents of:

- Alabama....................... 7
- Mississippi.....................3
- Jamaica.........................1

The entering Grade Point Averages of the Phase I participants ranged from 3.5 to 4.0 and ACT scores ranged from 21 to 30.

Phase II
Five (5) students participated in Phase II. They were residents of Alabama (3), Louisiana (1), and North Carolina (1). They represented four (4) higher education institutions:

- Alabama State................... 2
- Spring Hill College............. 1
- Univ. of South Alabama ...... 1
- Columbia Univ. New York… 1

The entering Grade Point Averages of Phase II participants ranged from 3.45 to 4.0 overall and 3.07 to 4.0 in the sciences. Their initial entering ACT scores ranged from 22 to 31.
Admission/Graduation
In August of 2015, three (3) female DREAM students, out of seven (7) African-Americans, entered the first year medical school class. One of two African-American students who graduated in 2015 entered our medical school through the DREAM program.

2014-2015 Recruitment
Recruitment visits to undergraduate institutions began during the month of October in 2014 and ended in January, 2015. Students were addressed and advised at all levels along the educational pathway during these visits. In 2014, visits were made to 13 colleges and universities in Alabama and contiguous states.
OFFICE OF ADMISSIONS  

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 10, 2015, opened June 1 and closed November 15, 2014.

For the Class of 2019, one thousand four hundred ninety-one (1491) applications were received. Four hundred thirty-five (435) applications were received from Alabama residents, nine hundred eighty (980) applications from out of state U.S. citizens, including forty-eight (48) 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 one hundred ninety-seven (197) applicants of which one hundred eighty-three (183) were residents of Alabama. Of the applicants interviewed, one hundred forty-seven (147) were offered admission to fill a class of seventy-five (75). Sixty-six (66) of the matriculating students are Alabama residents and four (4) 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 an increase in the number of applicants (1316 in 2014 vs. 1491 in 2015); there was also an increase in the number of Alabama applicants (421 in 2014 vs. 435 in 2015). Table I gives comparative data since 2012.

The matriculating Class of 2015 represents twenty-nine (29) colleges and universities from the United States. Fifty-three percent (53%) of this year’s class, however, come from four (4) universities in the state.

Recruitment and Retention Efforts

1. Undergraduate campus recruiting visits and sophomore interviews were implemented by “teams” of faculty 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: *Policies and Procedure Manual*, and *The USA COM FYI*.

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

7. A total of sixteen (16) Applicant Interview Day programs were conducted from September until mid-March. The interviewers, primarily College of Medicine basic science and clinical faculty, serve as members of the Committee on Admissions and/or ad hoc members. These members interviewed one hundred ninety-seven (197) candidates; each interviewee was interviewed by three committee members, giving a total of five hundred ninety-one (591) interviews.

8. The following Admissions Committee subcommittees were active in 2014-2015: 
   - 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 (80) 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 sixteen (16) were offered admission to the program.
<table>
<thead>
<tr>
<th></th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Total Applicants</strong></td>
<td>1309</td>
<td>1417</td>
<td>1316</td>
<td>1491</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>357</td>
<td>421</td>
<td>421</td>
<td>435</td>
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<tr>
<td>Out-of-State</td>
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<td>924</td>
<td>819</td>
<td>932</td>
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<td>50</td>
<td>43</td>
<td>48</td>
</tr>
<tr>
<td>Foreign</td>
<td>78</td>
<td>72</td>
<td>76</td>
<td>76</td>
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<td>Alabama Female</td>
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<td>198</td>
<td>182</td>
<td>191</td>
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<tr>
<td>Out-of State Female</td>
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<td>472</td>
<td>421</td>
<td>480</td>
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<td>56</td>
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<tr>
<td>Out-of-State Black</td>
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<td>144</td>
<td>83</td>
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<td>Residence:</td>
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<td>Service Areas (FL &amp; MS)</td>
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<td>6</td>
<td>12</td>
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<tr>
<td>Female</td>
<td>80</td>
<td>92</td>
<td>86</td>
<td>79</td>
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<tr>
<td>Rural</td>
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<td>34</td>
<td>33</td>
<td>32</td>
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<tr>
<td>Black (excludes DREAM)</td>
<td>11</td>
<td>18</td>
<td>13</td>
<td>17</td>
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<tr>
<td>Other Underrepresented Minority</td>
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<td><strong>Total Applicants Accepted</strong></td>
<td>160</td>
<td>155</td>
<td>159</td>
<td>147</td>
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<tr>
<td>Residence:</td>
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<tr>
<td>Alabama</td>
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<td>143</td>
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<td>136</td>
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<td>Out-of-State</td>
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<td>8</td>
<td>5</td>
<td>4</td>
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<td>Service Areas (FL &amp; MS)</td>
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<td>4</td>
<td>5</td>
<td>7</td>
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<tr>
<td>Female</td>
<td>56</td>
<td>64</td>
<td>64</td>
<td>71</td>
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<tr>
<td>Rural</td>
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<td>22</td>
<td>26</td>
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<td>Early Decision Program</td>
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<td>15</td>
<td>7</td>
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<td>76</td>
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<td>Average MCAT</td>
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<td>30</td>
<td>30</td>
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<td>Alabama</td>
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<td>67</td>
<td>71</td>
<td>66</td>
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<td>Out-of-State</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>5</td>
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<tr>
<td>Service Areas (FL &amp; MS)</td>
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<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Female</td>
<td>28</td>
<td>27</td>
<td>33</td>
<td>28</td>
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<td>Rural</td>
<td>13</td>
<td>12</td>
<td>10</td>
<td>13</td>
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<tr>
<td><strong>Total Black</strong></td>
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<tr>
<td>DREAM Program</td>
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<td>3</td>
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<tr>
<td>Other Underrepresented Minority</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>3</td>
</tr>
</tbody>
</table>

144
The Office of Continuing Medical Education (OCME) provides activities that address the continual practice gaps of all healthcare providers. As of July 2015, The OCME received Accreditation with Commendation through the Accreditation Council for Continuing Medical Education (ACCME). Accreditation with Commendation is awarded to providers that demonstrate compliance in all criteria including those for commendation.

January 2015 the OCME collaborated with allied health, United Way, and Housing First and supported the university initiative of Project Homeless Connect. We coordinated over 400 volunteers.

In 2014-2015, the OCME coordinated CME activities provided by the clinical departments and outside agencies. There were approximately 1269 regularly scheduled series (Grand Rounds) and 146 conferences accounting for 4,765.30 CME credit hours. In total 9,255 physicians and 13,635 non-physicians, credit hours were awarded. Additionally, 229 jointly provided activities with outside agencies (Providence Hospital, Springhill Medical Center, Gulf Coast Patient Care Network, Alabama Academy of Radiology, Foundation for Sickle Cell Disease Research, Coastal Trauma Care Region, and the Veterans Administration Biloxi) were supported by the Office of CME.

Significant CME Achievements:

- Received Accreditation with Commendation
- Increased Jointly-Provided activities
- Increased number of grand rounds offerings
- Increased number of conference offerings
- Improved CME tracker program for easy access and CME reporting
- Quality Matters Reviewer
- Awarded Professional Development Fellow through USA’s Team Based Learning Program

CME Plans for 2015-2016:

1. Collaborate with clinical departments in securing grants for medical education.
2. Work with hospitals in designing and implementing Performance Improvement and maintenance of Certification activities.
3. Revamp CME website to include outside resources.
5. Provide MOC credit.
I. ORGANIZATIONAL STRUCTURE

Dr. Samuel A. McQuiston, Associate 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 residency and fellowship training programs at the institution 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 for 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 8 fellowship programs with a combined total of 258 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 sponsored by the University of South Alabama are accredited by the ACGME and have fully transition 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>
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<td>Diagnostic Radiology</td>
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<td>04/01/2022</td>
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<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>
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<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>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>
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<tr>
<td>Cardiovascular Disease</td>
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<td>05/01/2016</td>
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<td>Clinical Neurophysiology</td>
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<td>Continued Accreditation</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Gastroenterology</td>
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<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) - USA</td>
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<td>Continued Accreditation</td>
<td>11/01/2018</td>
</tr>
<tr>
<td>Sports Medicine (FM) - Andrews</td>
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<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**

No training programs were site visited by the ACGME during 2014 – 2015.

**GMEC Oversight**

The GMEC continues to monitor programs through the regular reporting of activities as well as institutional and ACGME housestaff and program feedback. Results on all ACGME Resident and Faculty Surveys, completed by programs with 4 or more trainees, consistently placed GME training program at or above the national averages in compliance.

**III. SUMMARY OF GME ACTIVITIES**

With complete transition to the Next Accreditation System (NAS) as of July 1, 2015, 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).

The Clinical Learning Environment Review site visit was completed on July 22 – 23, 2014 at the University of South Alabama Medical Center campus. The site team conducted a series of meeting with GME, COM, and USAMC leadership as well as 9
program directors, 30 core faculty and 30 peer-selected residents and fellows. The site visit covered the areas of

- Patient safety;
- Quality improvement;
- Supervision;
- Transitions in care;
- Duty hours, fatigue management, fatigue mitigation; and
- Professionalism.

The GME Office received the final report from the CLER site team on August 25, 2014. The report reflected awareness throughout the USA Medical Center of the CLER program foci and acknowledged programs that are in place throughout the USA Health System to support these foci.

Resident Patient Safety & Quality Improvement Programs

At orientation 80 new housestaff were introduced 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.)

The USA College of Medicine through the GME Office has contracted with the Teaching for Quality (Te4Q) Program from the Association of American Medical Colleges to provide onsite quality improvement education training to core faculty across the USA Health System. Thirty-two faculty and observers participated in the 2 day workshop in early September 2015. In preparation, the participants completed independent learning through the Institute for Healthcare Improvement.

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 (Borowitz, 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 GMEC oversees compliance.

Program Coordinators’ Professional Development

With the dramatic changes occurring in GME at USA and across the country, it is important that program coordinators keep current on everything from changes in the USA Health System, changes in accreditation requirements, changes in the NRMP, to changes in New Innovations to address the other changes. To assist the program coordinators in meeting the changing needs of their programs, the GME Office began incorporating staff/professional development into the monthly program coordinators’ meeting. At the meetings, we have covered the topics of CMS Reimbursement as it relates to Program Letters of Agreement and Non-Hospital Setting Agreements, the use of the Program Director's Work Station (PDWS) for the NRMP Match, the use of New Innovations to meet documentation requirements for ACGME accreditation, Program Coordinators as Leaders and Motivators in Medical Education, and using MS Excel to analyze data in the GME Program Office.

Faculty and Resident Professional Development

Starting with 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”.

The GME staff have refined the USA Faculty Development Curriculum and maintained the USAonline 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
The Forty Second Annual Medical Student Summer Research Program was held on Friday, July 31, 2015, hosting over 150 attendees in the Medical Sciences Building for both oral and poster presentations. Forty one 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 relationship between scientific discoveries and their application in clinical medicine.

Dr. Dan Roden, Professor of Medicine and Pharmacology; Director, Oates Institute for Experimental Therapeutics; and Assistant Vice-Chancellor for Personalized Medicine; Vanderbilt University School of Medicine was the keynote speaker. Dr. Roden’s seminar was entitled, “Constructing a Successful Career in Biomedical Science: Genes, Environment, and Serendipity”.

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

**ORAL PRESENTATIONS**

- **Jordan Nickols**, Rising Sophomore. Lipopolysaccharide Induced Pulmonary Endothelial Barrier Disruption: Critical Role For Bicarbonate Stimulation of Adenylyl Cyclase Isoform 10. Sponsored by Sarah Sayner, Ph.D., Department of Physiology and Cell Biology

- **Stephen Ambrose**, Rising Sophomore. Inhibition of Triple Negative Breast Cancer Metastasis Through The Upregulation of QKI – 6 Using Sulindac Sulfide. Sponsored by Yaguang Xi M.D., Ph.D., Department of Oncologic Sciences

- **Adam Powell**, Rising Sophomore. The Effect of Electronic Toys on Gestural and Spoken Communication by Children on the Autism Spectrum. Sponsored by Amy Mitchell, M.S., Brenda Beverly, Ph.D., Hanes Swingle, M.D., Departments of Speech Pathology and Audiology and Pediatrics

- **Samantha Lin**, Rising Sophomore. Targeting PDE4 as a Therapeutic Approach to Cystic Fibrosis. Sponsored by Wito Richter, Ph.D., Department of Biochemistry and Molecular Biology

- **Michelle Ghandhi**, Rising Sophomore. Understanding Circumstances and Purchasing Practices of Food Assistance Beneficiaries. Sponsored by Martha Arrieta, Ph.D., Center for Healthy Communities
Alan Akira, Rising Sophomore. Health Insurance and Knowing Your Doctor’s Name- A Path Model for Health Care Utilization. Sponsored by Dr. Kenneth Hudson, Ph.D. and Dr. Errol Crook, M.D., USA Center for Healthy Communities

Divya Nadella, Rising Sophomore Comparing DDAVP Clinical Response to DDAVP Challenge Test in Patients with Von Willebrand Disease. Sponsored by Abdul Hafeez Siddiqui, M.D., And Dr. Hamayun Imran, M.D., Division of Pediatric Hematology/Oncology, Department of Pediatrics


Michael Marshall, Rising Sophomore. Accumulation of Pro-Inflammatory Mitochondrial DNA Damage Associated Molecular Patterns (MTDNA Damps) in Stored Platelet Rich Plasma. Sponsored by Jon Simmons, M.D., Department of Surgery and Mark Gillespie, Ph.D., Department of Pharmacology

Austin Brown, Rising Sophomore. Restructuring The Cardiovascular Card Constructs Library. Sponsored by Jeffery Sosnowski, Ph.D., M.D., Lynn Batten, M.D., and Mary Townsley, Ph.D. Division of Medical Education, Departments of Pediatrics and Physiology & Cell Biology

**POSTER PRESENTATIONS**

Jordan Lowery, Rising Sophomore. Artifacts Affecting FRET and Fluorescence Measurements. Sponsored by Thomas Rich, Ph.D., Silas Leavesley, Ph.D., Department of Pharmacology, Center for Lung Biology

Winston Crute, Rising Sophomore. The Mitochondrial Genome is a Target for Reactive Oxygen Species Generated in Ischemia-Reperfusion Injury. Sponsored by Mark Gillespie, Ph.D., Department of Pharmacology, Center for Lung Biology

Haylie Reed, Rising Sophomore. Genomic Editing of Human Cells to Generate Lines in which 7-Bicycloheptane Based Inhibitors Only Inhibit the Activity of PP5 Using the CRISPR Cas9 System. Sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology

Will Lightfoot, Incoming Freshman. Metabolic Alterations Following PARP1 Activation in Human Cells. Sponsored by Robert W. Sobol, Ph.D., Department of Pharmacology, and Mitchell Cancer Institute

Jonathan Moore, Rising Sophomore. The Effects of Modified Sialic Acid on Pulmonary Artery and Microvascular Endothelial Cell Growth, Proliferation, and Barrier Properties. Sponsored by Eugene Cioffi, Ph.D., Department of Pharmacology, and Donna Cioffi, Ph.D., Department of Biochemistry

Justin Jong, Rising Sophomore. Co-Localization of SK3 and TRPV4 in Caveolae. Sponsored by Mike Lin, Ph.D., Mark Taylor, Ph.D., David Weber, Ph.D., and Xiangming Zha, Ph.D. Department of Physiology and Cell Biology

Blair Gaines, Rising Sophomore. HSP27 as a Novel Biomarker for CAD and Assessing the Risk of Acute Coronary Syndrome – C. Sponsored by William Gerthoffer, Ph.D., Department of Biochemistry and Molecular Biology, and Clara Massey, M.D., Alexandria Hellmich, Dr. Med., Division of Cardiology, Department of Internal Medicine

Amy Traylor, Rising Sophomore. Electronic Health Record and Delays in Chart Competition. Sponsored by Carol Motley, M.D., Department of Family Medicine

Elliott Pennington, Rising Sophomore. Clinical Significance of Inflammatory Cytokines in Breast Cancer Racial Disparity. Sponsored by Seema Singh, Ph.D., Mitchell Cancer Institute, Donna Lynn Dyess, M.D., Department of Surgery

Ben Bush, Rising Sophomore. Cloning and Expression of Recombinant Parp4 and ALDH1A3 In Mesenchymal Glioma Stem Cells. Sponsored by Robert W. Sobol, Ph.D., Mitchell Cancer Institute

Richard Huettemann, Rising Sophomore. Characterization of Cytotoxin Induced Endothelial Inclusion Bodies. Sponsored by K Adam Morrow, Ph.D., Ron Balczon Ph.D., Troy Stevens, Ph.D., Department of Physiology, Center for Lung Biology

Richard Ashton Vautier, Rising Sophomore. Assessing Innovative Interventions to Improve Colorectal Cancer Screening in the Worksite and In Clinical Practice Settings. Sponsored by Margaret Sullivan, M.S. and Laurie Owen, Ph.D., Business Development and Outreach, USA Mitchell Cancer Institute

Evan Davidson, Rising Sophomore. Rising Sophomore. C4D Expression in Renal Allograft Biopsies Using Immunohistochemistry. Sponsored by Andrea G. Kahn, M.D., Javier A. Laurini, M.D. Department of Pathology

Alisa Trinh, Rising Sophomore. Phosphodiesterase10A Expression in Colorectal Cancer. Sponsored by Gary Piazza, Ph.D., Drug Discovery Lab, Mitchell Cancer Institute

Thomas Lunsford, Rising Sophomore. The Effect of Heat Shock Protein 90 Inhibitor 17-AAG on Triple Negative Breast Cancer Cells Sponsored by Ming Tan, M.D., Ph.D., Shruti Desai, Ph.D., and Susan Ledoux, Ph.D. Mitchell Cancer Institute and Division of Medical Education
M.D., Radiology, and Lynn Dyess, M.D., Breast/Endocrine Surgery, Mitchell Cancer Institute and Department of Surgery.

Alex Sims, Rising Sophomore. Inhibition of Breast Cancer Cell Invasion by Targeted Disruption of the ARP2/3 Complex. Sponsored by Lawrence LeClaire, Ph.D., Department of Biochemistry & Molecular Biology

J. Chandler Van Dyke, Rising Sophomore. Analysis of the Role of Prion Protein in Rat Pulmonary Microvascular Endothelial Cells. Sponsored by R. Balczon, Ph.D., Center for Lung Biology and Department of Biochemistry & Molecular Biology

Alexandria Broadnax, Rising Sophomore and Breanna Heard-Pinho, Rising Sophomore. The CHC (Center for Healthy Communities) Pipeline – A Ten Year Review of Success. Sponsored by Errol D. Crook, M.D., Hattie M. Myles, Ph.D., Mary C. Williams, the University of South Alabama Center of Excellence, Center for Healthy Communities

The Clyde G. “Sid” Huggins Medical Student Research Awards were presented to Mr. Jordan Nickols, sophomore medical student, for best oral presentation entitled, “Artifacts Affecting FRET and Fluorescence Measurements.” He was sponsored by Sarah Sayner, Ph.D., Department of Physiology and Cell Biology. Ms. Francie O’Hea, sophomore medical student, was presented best poster presentation entitled, “Improved Methods for Detection of High Risk Breast Cancer Populations In Women Presenting for Imaging.” She was sponsored by Joel Lightner, M.D., Radiology, and Lynn Dyess, M.D., Breast/Endocrine Surgery, Mitchell Cancer Institute and Department of Surgery. 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 final year of a two-year tenure as the Director of Basic Medical Sciences Graduate Program. The Basic Medical Sciences Graduate Faculty elected Dr. Mark Taylor as the new Director for a three year term beginning October 1, 2015.

Admissions

Graduate Program Office personnel process applications and host interviews for prospective students to the program.

Interviews for Basic Medical Sciences Graduate Program Fall 2015 Class applicants were held in March, April, and June. A total of 11 students were interviewed (US=8; International=3). A summary of Admissions activity is provided below.

<table>
<thead>
<tr>
<th>Admissions - BMS Graduate Program</th>
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<tbody>
<tr>
<td></td>
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<tr>
<td>Inquiries</td>
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<tr>
<td>US</td>
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<tr>
<td>International</td>
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<td>Applications</td>
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<td>Acceptances</td>
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<td>US</td>
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<tr>
<td>International</td>
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<tr>
<td>Average GRE</td>
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<tr>
<td>V=153; Q=151</td>
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<tr>
<td>Av. UG GPA</td>
</tr>
<tr>
<td>Av. GR GPA</td>
</tr>
</tbody>
</table>

Recruitment Activities

2. Presentations were made to USA’s Premedical Honors Society and Freshman Biomedical Sciences students.
3. Students from undergraduate programs at USA attended the annual Basic Medical Sciences Graduate Forum in October, 2014.
Curriculum

1. The eighth COM Research Forum was held on October 31, 2014.
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 Class 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, and 2013/2014/Sabrina Ramilla. Dr. Strada, Dean of the College of Medicine, presented the eighth annual award to Mary Catherine Patton on August 19, 2015.

New Programs/Policies/Requirements

1. Developments were made and implemented per recommendations made by faculty, including:
   a. Enforcing more stringent requirements for students to document progress between committee meetings.
   b. Extending the length of first-year student rotations from 5-week rotations to three 9-to-10 week rotations, allowing for overlap over the fall break into January and a continued training period between the end of the spring semester and the beginning of the summer semesters.
   c. Restructuring the Basic Medical Sciences Graduate Program Executive Committee and adopting the change of the committee make-up in the BMS Graduate Program By-Laws.
   d. Appointing a senior graduate student as a non-voting member of SPEC.

BMSSO-Basic Medical Sciences Student Organization

BMSSO hosted speakers to address topics about employment opportunities with industry and governmental agencies. The organization also hosted the annual Charles Baugh Dawg Day during Spring Semester, 2015, and a Faculty Appreciation luncheon in July. In August, 2015, funding was provided for a Welcome Reception at Dr. Rich’s home for the 2015 entering class during Orientation.

Extramural Support for Graduate Training

1. The renewed NIH Pre-doctoral Institutional Training Grant on “Cell Signaling and Lung Pathobiology” provides stipend support to six Basic Medical Science Graduate Students.
2. BMS Graduate Program students received extramural grant awards from the American Heart Association and EPSCOR. Students also received national conference and annual meeting travel awards.
3. The Dean of the College of Medicine, Dr. Samuel Strada, established the SJS Career Enrichment Travel Award. Two students, Jared McLendon and Ningyong Xu, were awarded funds to travel to professional conferences during the 2015 Spring semester with funds provided by the endowment.
Graduates

Two hundred students have received a Ph.D. in Basic Medical Sciences. Students officially completing all requirements during the academic year (September 2014-August 2015) were:

Kendra Nicole Reed Clark
Dissertation Title: "The Role of Mitochondria Originated Oxidative Stress in Cartilage Matrix Destruction during the Progression of Osteoarthritis"
Major Professor: Glenn L. Wilson, Ph.D.
Department/Track: Cell Biology and Neuroscience
Current Position: Student; School of Dentistry, University of Mississippi Medical Center, Jackson, Mississippi

Chian Ju Jong
Dissertation Title: "Mechanism Underlying Taurine Depletion-Mediated Cell Death"
Major Professor: Stephen W. Schaffer, Ph.D.
Department/Track: Pharmacology
Current Position: Postdoctoral Fellow; Department of Physiology and Pharmacology, University of Western Ontario, Ontario, Canada

Ashley Stringfellow Lindsey
Dissertation Title: "Resident Microvascular Endothelial Progenitor Cells for the Restoration of the Pulmonary Microvascular Barrier during Acute Respiratory Distress Syndrome"
Major Professor: Diego F. Alvarex, Ph.D.
Department/Track: Pharmacology – Lung Biology
Current Position: Postdoctoral Fellow; Mitchell Cancer Institute, Mobile, Alabama

Jared M. McLendon
Dissertation Title: "Understanding the Expression and Significance of MicroRNA-145 in Pulmonary Hypertension"
Major Professor: William T. Gerthoffer, Ph.D.
Department/Track: Biochemistry – Lung Biology
Current Position: Postdoctoral Fellow; Department of Internal Medicine, University of Iowa, Iowa City, Iowa

David Carl Schmitt
Dissertation Title: "MIR-4728: A Novel Tumor Suppressive MicroRNA in Breast Cancer"
Major Professor: Ming Tan, Ph.D.
Department/Track: Cancer Biology
Current Position: Senior Scientific Specialist; Merck and Company, Pennsylvania
Summary of Extramural Support

Funding for the 2014-2015 academic year includes $13,036,227 and $3,510,529 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Last 4 Years
2012  $15,799,086
2013  $14,508,914
2014  $15,457,365
2015  $16,546,756
# EXTRAMURAL FUNDING

**(OCTOBER 1, 2014 – SEPTEMBER 30, 2015)**

## 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 HL107778-03</td>
<td>Immunophilins Regulate SOC Entry Channels in Pulmonary Endothelial Cells</td>
<td>$365,681.00</td>
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<tr>
<td>William Gerthoffer</td>
<td>Celsion Corporation 150464 CEL-001</td>
<td>Therapy of Pulmonary Arterial Hypertension with miR-145 Antagonists</td>
<td>$64,975.00</td>
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<td>Richard Honkanen</td>
<td>NIH 5 R01 HL110937-05</td>
<td>Methods to Enable Cholesterol Catabolism in Human Monocyte Derived Macrophages</td>
<td>$334,125.00</td>
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<td>Steve Lim</td>
<td>AHA 12SDG 10970000-03</td>
<td>Nuclear Localized FAK Controls VCAM-1 Expression in Vascular Inflammation</td>
<td>$77,000.00</td>
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**Total** $841,781.00

## BIOMEDICAL LIBRARY

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<th>Project Title</th>
<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Justin Robertson</td>
<td>NIH SR00003723</td>
<td>NICU Family Resource Center</td>
<td>$5,000.00</td>
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**Total** $5,000.00
## CENTER FOR STRATEGIC HEALTH INNOVATIONS

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<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Dan Roach</td>
<td>CMMS 9185-01</td>
<td>Alabama Medicaid Maternity Contract</td>
<td>$20,000</td>
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<tr>
<td>Dan Roach</td>
<td>CMMS 11-152A9279</td>
<td>Patient Care Network/PMP Portal</td>
<td>$700,000.00</td>
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<tr>
<td>Dan Roach</td>
<td>CMMS 150019-02</td>
<td>The Healthy Active Living: An Obesity Prevention and Treatment Quality Improved Project</td>
<td>$18,750.00</td>
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<td>David Wallace</td>
<td>ADPH C40118183 (GC-14-326)</td>
<td>Advanced Regional Response Training Center 2016 (ARRTC Training 2016)</td>
<td>$970,032.00</td>
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### Total

$1,925,795.00

## EMERGENCY MEDICINE

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<tr>
<td>Frank Pettyjohn</td>
<td>NIH PS# 107223-02</td>
<td>Cardiovascular Inflammation Reduction Trial (CIRT)</td>
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### Total

$2,000.00
### FAMILY MEDICINE

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<tbody>
<tr>
<td>Carol Motley</td>
<td>HRSA 5 D56 HP23279-05-00</td>
<td>PreDoctoral Training in Primary Care</td>
<td>$146,310.00</td>
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<td>Allen Perkins</td>
<td>HRSA 5 D58 HP23236-05-00</td>
<td>Residency Training in Primary Care Program</td>
<td>$121,290.00</td>
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<td>Allen Perkins</td>
<td>AFPRHB 150210</td>
<td>Student Preceptorship</td>
<td>$30,000.00</td>
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<tr>
<td>Allen Perkins</td>
<td>BP MOU 2015-09-19</td>
<td>MOU between Gulf Coast Behavioral Health and Resiliencey Center and USA Family Medicine</td>
<td>$61,993.00</td>
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**Total** $359,593.00

### INTERNAL MEDICINE

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<th>Agency</th>
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<th>Fiscal Year Funding</th>
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<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>$5,180.00</td>
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<td>Brooks Cash</td>
<td>NinePoint Medical</td>
<td>High Resolution Optical Imaging of Esophageal Tissue Using the Nvision VLE Imaging System Registry</td>
<td>$17,212.50</td>
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<tr>
<td>Brooks Cash</td>
<td>Luitpold Pharmaceuticals</td>
<td>A Multi-Center, Randomized, Open-Label, Controlled Study to Investigate the Treatment Response of Intravenous Injectafer (Ferric Carboxymaltose) vs. Oral Iron to Baseline Hepcidin Levels in Patients with Iron Deficiency Anemia (IDA) Secondary to Inflammatory Bowel Disease (IBD)</td>
<td>$14,250.00</td>
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<tr>
<td>Brooks Cash</td>
<td>PAION UK Ltd</td>
<td>A Phase III Study Evaluating the Efficacy and Safety of Remimazolam (CNS 7056) Compared to Placebo and Midazolam in Patients Undergoing Colonoscopy</td>
<td>$3,000.00</td>
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<tr>
<td>Brooks Cash</td>
<td>IM Healthscience LLC</td>
<td>Functional Dyspepsia Reduction Evaluation and Safety Trial (FDREST): A Randomized, Double-Blind, Placebo-Controlled Study to Assess the Safety and Efficacy of Fdgard, a Medical Food, in the Dietary Management of Patients with Functional Dyspepsia</td>
<td>$2,000.00</td>
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<tr>
<td>Errol Crook</td>
<td>NIH 5 P20 MD002314-09</td>
<td>Broad-Based Research Collaboratives on Minority Health and Health Disparities</td>
<td>$1,239,204.00</td>
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<td>Errol Crook</td>
<td>NIH HSR-SSS-S 14-003667-1</td>
<td>Gulf Study Biomedical Surveillance Clinical Examination</td>
<td>$753,527.00</td>
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<td>Michael Culpepper</td>
<td>Otsuka Pharmaceutical</td>
<td>Multi-center, Open-label, Extension Study to Evaluate the Long-term Efficacy and Safety of Oral Tolvaptan Tablet Regimen in Subjects with Autosomal Dominant Polycystic Kidney Disease (ADPKD)</td>
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<tr>
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<tr>
<td>Michael Culpepper</td>
<td>Frenova, LLC</td>
<td>TR02-A Randomized, Double-Blind, Placebo-Controlled, Parallel, 3-Arm Study of the Safety and Anti-Pruritic Efficacy of Nalbuphine HCL ER Tablets in Hemodialysis Patients with Uremic Pruritus</td>
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<tr>
<td>Michael Culpepper</td>
<td>Frenova, LLC</td>
<td>TR02Ext-An Open Label Extension Study of the Safety and Anti-Pruritic Efficacy of Nalbuphine HCL ER Tablets in Hemodialysis Patients with Uremic Pruritus.</td>
<td>$39,112.50</td>
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<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceuticals.</td>
<td>A Phase 3b, Multi-Center, Randomized-Withdrawal, Placebo-Controlled, Double-Blind, Parallel-Group Trial to Compare the Efficacy and Safety of Tolvaptan (45 to 120mg/day, Split-Dose) in Subjects with Chronic Kidney Disease Between Late Stage 2 to Early Stage 4 Due to Autosomal Polycystic Kidney Disease</td>
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<td>Michael Culpepper</td>
<td>Otsuka Pharmaceuticals</td>
<td>A Phase 3b, Multi-Center, Randomized-Withdrawal, Placebo-Controlled, Double-Blind, Parallel-Group Trial to Compare the Efficacy and Safety of Tolvaptan (45 to 120mg/day, Split-Dose) in Subjects with Chronic Kidney Disease Between Late Stage 2 to Early Stage 4 Due to Autosomal Polycystic Kidney Disease</td>
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<td>Michael Culpepper</td>
<td>Fibrogen, Inc</td>
<td>A Phase 3, Multi-Center, Randomized, Open-Label, Active-Controlled Study of the Efficacy and Safety of FG-4592 in the Treatment of Anemia in Incident-Dialysis Patients</td>
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<tr>
<td>Principal Investigator</td>
<td>Agency</td>
<td>Project Title</td>
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<tr>
<td>Michael Culpepper</td>
<td>Fibrogen, Inc</td>
<td>A Phase 3, Open-Label, Randomized, Active-Controlled Study of the Efficacy and Safety of Roxadustat (FG-4592) in the Maintenance Treatment of Anemia in Subjects with End Stage Renal Disease (ESRD) on Stable Dialysis</td>
<td>$2,250.00</td>
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<td>Karen Fagan</td>
<td>Gilead Sciences</td>
<td>A Phase 2, Dose-Ranging, Randomized, Double-Blind, Placebo-Controlled Study of GS-4997 in Subjects with Pulmonary Arterial Hypertension</td>
<td>$2,500.00</td>
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<tr>
<td>Karen Fagan</td>
<td>United Therapeutics Corporation</td>
<td>A Postmarketing Observational Study to Assess Respiratory Tract Adverse Events in Pulmonary Arterial Hypertension Patients Treated with Tyvaso (treprostinil) Inhalation Solution</td>
<td>$5,937.50</td>
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<tr>
<td>Karen Fagan</td>
<td>Lung Biotechnology Inc</td>
<td>A Multi-Center, Double-Blind, Randomized, Placebo-Controlled, Phase 3 Study to Assess the Efficacy and Safety of Oral BPS-314d-MR Added-on to Treprostinil, Inhaled (Tyvaso) in Subjects with Pulmonary Arterial Hypertension</td>
<td>$5,000.00</td>
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<tr>
<td>Jorge Herrera</td>
<td>Schering-Plough Research Institute</td>
<td>P05063-45, Long-Term Follow-Up of Subjects in a Phase 2 or 3 Clinical Trial in which SCH 503034 was Administered for the Treatment of Chronic Hepatitis C</td>
<td>$7,517.00</td>
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<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>$5,893.39</td>
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<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>$18,705.00</td>
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<tr>
<td>Bassam Omar</td>
<td>The Cleveland Clinic Foundation</td>
<td>An Open Label, Randomized Study to Determine the Rate of Cardiovascular Events at 1 Year for Patients with Elevated Troponins Post Major Non-Cardiac Surgery and the Impact of Ticagrelor Versus Aspirin on the Occurrence of Cardiovascular Events Named INTREPID: INvestigating TicagRELor Treatment in Patients with Myocardial Injury Post non-cardiac Surgery</td>
<td>$4,000.00</td>
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<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>$14,000.00</td>
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<td>Reynaldo Rodriguez</td>
<td>Braintree Laboratories</td>
<td>BLI400-301 A Safety and Efficacy Evaluation of BLI400 Laxative in Constipated Adults</td>
<td>$2,000.00</td>
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### INTERNAL MEDICINE (Cont’d)

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<tr>
<td>John Vande Waa</td>
<td>HRSA 2 H12 HA24771-04-00</td>
<td>USA Family Specialty Clinic</td>
<td>$361,500.00</td>
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<td>John Vande Waa</td>
<td>HRSA RW-USAF-1516</td>
<td>USA Family Specialty Clinic</td>
<td>$109,712.00</td>
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### MICROBIOLOGY & IMMUNOLOGY

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<tr>
<td>Robert Barrington</td>
<td>ALA RG-349167</td>
<td>A Novel Mouse Model for Idiopathic Pulmonary Alveolar Proteinosis</td>
<td>$40,000.00</td>
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<tr>
<td>Paul Brett</td>
<td>DOD HDTRA1-14-C-0023</td>
<td>Antigenically Defined Vaccines for Immunization Against Melioidosis and Glanders</td>
<td>$591,149.00</td>
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<tr>
<td>Paul Brett</td>
<td>TNPRC 150240</td>
<td>Melioidosis Rapid Latex Agglutination Tests</td>
<td>$5,600.00</td>
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<tr>
<td>Paul Brett</td>
<td>DOD 150228</td>
<td>High-Affinity Monoclonal Antibodies that target Burkholderia Polysaccharides</td>
<td>$16,667.00</td>
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<tr>
<td>Paul Brett</td>
<td>TNPRC-Supplement</td>
<td>Melioidosis Rapid Latex Agglutination Tests</td>
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<tr>
<td>Mary Burtnick</td>
<td>DOD 150227</td>
<td>High-Affinity Monoclonal Antibodies that target Burkholderia Polysaccharides</td>
<td>$200,745.00</td>
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### MICROBIOLOGY & IMMUNOLOGY (Cont’d)

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<tr>
<td>Mary Burtnick</td>
<td>DOD 150356</td>
<td>Purification of Burkholderia CPS for Development of Diagnostic Assays</td>
<td>$6,000.00</td>
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<td>Jarrod Fortwendel</td>
<td>NIH 5 RO1 AI106925-02</td>
<td>Fungal Ras-mediated invasive growth mechanisms</td>
<td>$302,250.00</td>
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<td>David Wood &amp; Jonathon Audia</td>
<td>NIH 5 R01 AI020384-30</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
<td>$476,547.00</td>
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**Total** $1,676,008.00

### MITCHELL CANCER INSTITUTE (SAMSF Projects Only)

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<tbody>
<tr>
<td>Thomas Butler</td>
<td>Novartis Pharmaceuticals</td>
<td>A Randomized, Phase III, Double-Blind, Placebo-Controlled Multicenter Trial of Everolimus in Combination with Trastuzumab and Paclitaxel, as First Line Therapy in Women with HER2 Positive Locally Advanced or Metastatic Breast Cancer</td>
<td>$31,048.57</td>
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<tr>
<td>Thomas Butler</td>
<td>Avillion Development</td>
<td>A Multicenter Phase 3 Randomized, Open-Label Study of Bosutinib Versus Imatinib in Adult Patients with Newly Diagnosed Chronic Phase Chronic Myelogenous Leukemia</td>
<td>$5,000.00</td>
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<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>$20,511.00</td>
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<td>David Clarkson</td>
<td>SOTIO</td>
<td>A Randomized, Double-Blind, Multicenter, Parallel-Group, Phase III Study to Evaluate Efficacy and Safety of DCV AC/Pca versus Placebo in Men with Metastatic Castration Resistant Prostate Cancer Eligible for 1st Line Chemotherapy</td>
<td>$6,500.00</td>
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<tr>
<td>David Clarkson</td>
<td>Celgene Corporation</td>
<td>A Phase 3, Double-Blind Randomized Study to Compare the Efficacy and Safety of RituxImab Plus LenalIdomide (CC-5013) Versus RituxImab Plus Placebo in Subjects with Relapsed/Refractory Indolent Lymphoma</td>
<td>$6,500.00</td>
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<td>David Clarkson</td>
<td>Boehringer Ingelheim Pharmaceuticals</td>
<td>Multicentre, Randomised, Double-Blind, Phase III Trial to Investigate the Efficacy and Safety of Oral Nintedanib Plus Docetaxel Therapy Compared to Placebo Plus Docetaxel Therapy in Patients with Stage IIIB/IV or Recurrent, Adenocarcinoma Subtype Non-Small Cell Lung Cancer After Failure of First Line Chemotherapy</td>
<td>$6,000.00</td>
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<tr>
<td>David Clarkson</td>
<td>Janssen Research &amp; Development</td>
<td>A Phase 3 Study Comparing Daratumumab, Lenalidomide, and Dexamethasone (DRd) vs Lenalidomide and Dexamethasone (Rd) in Subjects with Previously Untreated Multiple Myeloma Who Are Ineligible for High Dose Therapy</td>
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<tr>
<td>David Clarkson</td>
<td>TG Therapeutics, Inc</td>
<td>A Phase 3, Randomized, Study to Assess the Efficacy and Safety of UbiituxImab in Combination with Ibrutinib Compared to Ibrutinib Alone, in Patients with Previously Treated High-Risk Chronic Lymphocytic Leukemia (CLL)</td>
<td>$6,500.00</td>
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<tr>
<td>Micheal 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>7,700.00</td>
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<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>$17,681.35</td>
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<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>$7,896.14</td>
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<tr>
<td>Carole Norden</td>
<td>Genetech Inc</td>
<td>A Multicenter, Multinational, Phase II Study to Evaluate Pertuzumab in Combination with Trastuzumab and Standard Neoadjuvant Anthracycline-Based Chemotherapy in Patients with HER2-Positive, Locally Advanced, Inflammatory, or Early-Stage Breast Cancer</td>
<td>$58,052.70</td>
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<tr>
<td>Carole Norden</td>
<td>Celldex Therapeutics</td>
<td>A Randomized Multicenter Pivotal Study of CDX-011 (CR011-vcMMAE) in Patients with Metastatic, GPNMB Over-Expressing, Triple-Negative Breast Cancer</td>
<td>$7,000.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>Merck</td>
<td>A Phase III, Randomized, Double-Blind, Active Comparator-Controlled Parallel-Group Study, Conducted Under In-House Blinding Conditions, to Examine the Efficacy and Safety of a Single 150mg Dose of Intravenous Fosaprepitant Dimeglumine for the Prevention of Chemotherapy-Induced Nausea and Vomiting (CINV Associated with Moderately Emetogenic Chemotherapy)</td>
<td>$8,494.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>Novartis Pharmaceuticals</td>
<td>Modular Phase II Study to Link Targeted Therapy to Patients with Pathway Activated Tumors: Module 3 - MEK 162 for Patients with RAS/RAF/MEK Activated Tumors</td>
<td>$7,500.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>Gradalis, Inc.</td>
<td>Double-Blind, Placebo Controlled Phase III Trial of Maintenance FANG (bi-shRNA and GMCSF Augmented Autologous Tumor Immunotherapy) for High Risk Stage III/IV Ovarian Cancer</td>
<td>$5,000.00</td>
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<tr>
<td>Rodney Rocconi</td>
<td>EMD Serono, Inc</td>
<td>A Phase I, Open-Label, Multiple-Ascending Dose Trial to Investigate the Safety, Tolerability, Pharmokinetics, Biological and Clinical Activity of MSB0010718C in Subjects with Metastatic or Locally Advanced Solid Tumors and Expansion to Selected Indications</td>
<td>$6,500.00</td>
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<tr>
<td>William Taylor</td>
<td>Genetech</td>
<td>STEAM (Sequencing Triplet with Avastin and Maintenance) : FOLFOXIRI/Bevacizumab Regimens (Concurrent and Sequential) vs. FOLFOX/Bevacizumab in First-Line Metastatic Colorectal Cancer</td>
<td>$21,117.33</td>
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<tr>
<td>William Taylor</td>
<td>Sanofi US Services Inc</td>
<td>Prospective International Observational Cohort Non-Comparative Study Describing the Safety and Efficacy of ZALTRAP Administered in Combination with FOLFIRI for the Treatment of Patients with Metastatic Colorectal Cancer in Current Clinical Practice: A Post-Authorisation Safety Study (PASS)</td>
<td>$4,675.00</td>
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<tr>
<td>William Taylor</td>
<td>Halozyme, Inc</td>
<td>A Phase 2, Randomized, Multicenter Study of PEGPH20 (PEGylated Recombinant Human Hyaluronidase) Combined with nab-Paclitaxel Plus Gemcitabine Compared with nab-Paclitaxel Plus Gemcitabine in Subjects with Stage IV Previously Untreated Pancreatic Cancer</td>
<td>$7,500.00</td>
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<tr>
<td>Mary Vu</td>
<td>AbbVie Inc</td>
<td>A Randomized, Open-Label, Multicenter, Phase 3 Trial Comparing Vellparib Plus Carboplatin and Paclitaxel Versus Investigator's Choice of Standard Chemotherapy in Subjects Receiving First Cytotoxic Chemotherapy for Metastatic or Advanced Non-Squamous Non-Small Cell Lung Cancer (NSCLC) and Who Are Current or Former Smokers</td>
<td>$6,075.00</td>
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Total $263,482.09
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<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 Indicators for Fetal Chromosome 21 Aneuploidy</td>
<td>$7,437.50</td>
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<td>David Lewis</td>
<td>Sequenom</td>
<td>SQNM-T21-107 - Collection of Whole Blood Specimen from Pregnant Women at Increased Risk for Fetal Chromosomal Abnormality for Use in Development of a Noninvasive Prenatal Test in the Detection of the Relative Quantity of Chromosomal Material in Circulating Cell-Free DNA Extracted from Maternal Plasma</td>
<td>$20,500.00</td>
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<tr>
<td>David Lewis</td>
<td>REVO Biologics</td>
<td>Prospective Randomized Double-Blind, Placebo-Controlled Evaluation of the Pharmokinetics, Safety and Efficacy of Recombinant Antithrombin Versus Placebo in Preterm Preeclampsia (PRESERVE-1), Protocol no. RB AT PPE 01-13</td>
<td>$106,698.75</td>
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<td>David Lewis</td>
<td>ADPH HRSA C50119031(GC-15-049)</td>
<td>FY 2015 Perinatal Coordinator Grant</td>
<td>$11,500.00</td>
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<td>Craig Sherman</td>
<td>CMMS 1D1CMS331157-03</td>
<td>Strong Start for Mothers and Newborns</td>
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<td>Craig Sherman</td>
<td>CMMS 1D1CMS331157-02</td>
<td>Strong Start for Mothers and Newborns</td>
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<td>Craig Sherman</td>
<td>March of Dimes 150094</td>
<td>March of Dimes Chapter Community Grants Program</td>
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**Total** $604,608.25
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<tr>
<td>Karen Crissinger</td>
<td>Centocor, Inc.</td>
<td>A Multi-Center, Prospective, Long-term, Observational Registry of Pediatric Patients with Inflammatory Bowel Disease</td>
<td>$19,577.40</td>
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<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 Denslansoprazole 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>$4,333.10</td>
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<tr>
<td>Hamayun Imran</td>
<td>Pfizer</td>
<td>A Phase 3, Multicenter, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Efficacy and Safety of Ribipansel (GMI-1070) in the Treatment of Vaso-Occlusive Crisis in Hospitalized Subjects with Sickle Cell Disease</td>
<td>$3,000.00</td>
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<td>Hamayun Imran</td>
<td>NIH 136444 Cincinnati Children’s Hospital Medical Center</td>
<td>TWiTCH Research Protocol</td>
<td>$1,148.00</td>
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<tr>
<td>Anne-Marie Kaulfers</td>
<td>ADPH C5019080</td>
<td>Endocrinology Clinic for State Newborn Screening Program</td>
<td>$30,101.00</td>
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<td>Ananthasekar Ponnamballam</td>
<td>Sucampo Pharma Americas, LLC</td>
<td>A Multicentre, Randomised, Placebo-Controlled, Double-Blind Study of the Efficacy, Safety, and Pharmacokinetics of Lubiprostone in Paediatric Subjects Aged 6 or Greater to Less than or Equal to 18 Years with Functional Constipation</td>
<td>$2,876.25</td>
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<tr>
<td>Daniel Preud’homme</td>
<td>CDC 150412</td>
<td>Teen Pregency Prevention</td>
<td>$7,617.00</td>
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<tr>
<td>Daniel Preud’homme</td>
<td>UAB</td>
<td>SAMSF/UAB : Healthy Active Living Sessions with ACHIA</td>
<td>$11,000.00</td>
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<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>$31,030.00</td>
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<td>Hanes Swingle</td>
<td>University of Texas Health Sciences Center</td>
<td>Epidemiologic Research on Autism Along the Gulf Coast</td>
<td>$16,596.00</td>
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<tr>
<td>Felicia Wilson</td>
<td>NIH 9500010213-02 Childrens Hospital of Philadelphia Subcontract</td>
<td>Children’s Oncology Group: COG Chair’s Grant</td>
<td>$8,800.00</td>
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<td>Felicia Wilson</td>
<td>NIH 9500080215-12C-01 Childrens Hospital of Philadelphia Subcontract</td>
<td>Children’s Hospital Philadelphia, Non Industry Funding Per Case Reimbursement: NIH GOG Chair Grant</td>
<td>$20,550.00</td>
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<td>Felicia Wilson</td>
<td>ADPH C50119079</td>
<td>Comprehensive Sickle Cell Center for State Newborn Screening Program</td>
<td>$22,252.00</td>
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<tr>
<td>Felicia Wilson</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>$14,487.80</td>
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Total: $193,368.55
### PHARMACOLOGY

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<tr>
<td>Mark Gillespie, Glenn Wilson, Diego Alvarez</td>
<td>NIH 5 R01 HL113614-04</td>
<td>mtDNA Repair: An Isolated Pharmacologic Target in Acute Lung Injury</td>
<td>$365,681.00</td>
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<tr>
<td>Mark Gillespie</td>
<td>NIH 2 R01 HL058234-14A1</td>
<td>DNA Lesions &amp; Gene Expression in Hypoxic Lung Disease</td>
<td>$378,438.00</td>
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<td>Raymond Langley</td>
<td>DARPA2015A-02</td>
<td>Resilience to Infection: An Open Innovation Challenge to the Community</td>
<td>$19,986.00</td>
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<td>Silas Leavesley</td>
<td>Economic Dev Partnership of AL Fnd 150093</td>
<td>SPECTRACYTE</td>
<td>$87,000.00</td>
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<tr>
<td>Thomas Rich, &amp; Diego Alvarez</td>
<td>NIH 5 P01 HL066299-14-PROJ 2</td>
<td>Lung Endothelial Cell Phenotypes – Project 2</td>
<td>$324,420.00</td>
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<tr>
<td>Thomas Rich</td>
<td>NIH 080-18007-S11201-02</td>
<td>G Protein-Coupled Receptor Regulation in Airway Myocytes</td>
<td>$32,910.00</td>
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<tr>
<td>Victor Solodushko</td>
<td>NIH 130270-01 Exscien Corporation</td>
<td>Minimal PiggyBac Vectors for Chromatin Integration</td>
<td>$1,332.00</td>
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**Total** $1,209,767.00

### PHYSIOLOGY & CELL BIOLOGY

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<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 5P01 HL066299-14 CORE C</td>
<td>Lung Endothelial Cell Phenotypes- Core C*</td>
<td>$272,826.00</td>
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*Program Project Grant*
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<tbody>
<tr>
<td>Mikhail Alexeyev</td>
<td>Exscien Corporation 150117</td>
<td>Services Agreement</td>
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<td>Diego Alvarez</td>
<td>NIH 5P01 HL066299-14 CORE B</td>
<td>Lung Endothelial Cell Phenotypes-Core B*</td>
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<td>Diego Alvarez</td>
<td>NIH 1RO1 HL118334-01A1</td>
<td>Caspase-1, the Microvascular Endothelium and Infection</td>
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<td>Troy Stevens, Donna Cioffi, &amp; Mikhail</td>
<td>NIH 5 R37 HL060024-17</td>
<td>Store Operated Ca(^{2+}) Entry: Lung Endothelial Permeability</td>
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<td>Alexeyev</td>
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<td>Sarah Sayner</td>
<td>NIH 1 R01HL121513-01A1</td>
<td>Bicarbonate Regulation of the Pulmonary Endothelial Barrier</td>
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<td>Troy Stevens</td>
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<td>Cellular and Molecular Mechanisms of Acute Lung Injury in Sickle Cell Disease</td>
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<td>Cellular and Molecular Mechanisms of Acute Lung Injury in Sickle Cell Disease</td>
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*Program Project Grant
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<tr>
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<th>Fiscal Year Funding</th>
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<tr>
<td>Troy Stevens</td>
<td>AHA 14PRE18470024-01</td>
<td>ORAI I is a Critical Determinant of Sodium Permeation Through Endothelial Cells Store-Operated Calcium Entry Channels</td>
<td>$26,000.00</td>
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<td>Troy Stevens</td>
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<td>Pseudomonas Aeruginosa Infection Causes a Tauopathy of the Lung</td>
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<td>Mark Taylor</td>
<td>NIH 1 S10 OD020149-01</td>
<td>Andor Revolution WD Confocal Imaging System</td>
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<td>Mary Townsley</td>
<td>NIH 2 T32 HL076125-12</td>
<td>Training in Cell Signaling and Lung Pathobiology</td>
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<td>Xiangming Zha</td>
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<td>OGR1 As a Novel Mediator of Acid Signaling in the Brain</td>
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<td>ASIC Trafficking and Ischemia-Induced Neuronal Damage</td>
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**SURGERY**

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<td>Sidney Brevard</td>
<td>DOD 130457-02</td>
<td>Randomized, Double-Blind, Placebo-Controlled, Dose-Escalation Study of Nnz-2566 In Patient with Traumatic-Brain Injury (TBI)</td>
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<td>Lynn Dyess</td>
<td>Agendia, Inc</td>
<td>Multi Institutional Neo-Adjuvant Therapy Mamma print Project (MINT)</td>
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<td>Salil Gulati</td>
<td>Derma Sciences, Inc</td>
<td>MEDIHONEY Versus Standard of Care for the Treatment and Outcome of Second Degree Superficial and Indeterminate Burns</td>
<td>$3,278.00</td>
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<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>$19,107.50</td>
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<td>Salil Gulati</td>
<td>MediWound Ltd</td>
<td>A Multicenter, Multinational, Randomized, Controlled, Blinded Study, Performed in Subjects with Thermal Burns to Evaluate the Efficacy and Safety of NexoBrid as Compared to Standard of Care (SOC) Treatment</td>
<td>$5,500.00</td>
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<td>Paul Rider</td>
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<td>Phase 3 Study of Efficacy and Safety of Topical E-101 Solution to Prevent Incisional Infections Among Colorectal Surgery Patients</td>
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<td>Jon Simmons</td>
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<td>Defining a New Pathogenesis and Treatment for Delayed Trai</td>
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<td>Jon Simmons</td>
<td>American College of Surgeons 150384</td>
<td>Mitochondrial DNA DAMP’s, A Pharmacological Target in Multiple Organ Dysfunction Syndrome</td>
<td>$45,000.00</td>
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<td>Marcus Tan</td>
<td>Amgen</td>
<td>A Phase 3b, Multicenter, Open-Label, Single-Arm, Expanded Access Protocol of Talimogene Laherparepvec for the Treatment of Subjects with Unresected, Stage IIIB to IVM1a Melanoma</td>
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