# TABLE OF CONTENTS

I. Reports from Departments and Centers
   - Biochemistry and Molecular Biology ........................................... 1
   - Comparative Medicine .............................................................. 5
   - Emergency Medicine .................................................................. 7
   - Family Medicine .......................................................................... 14
   - Internal Medicine ......................................................................... 16
   - Microbiology and Immunology ..................................................... 28
   - Neurology ................................................................................... 34
   - Neurosurgery ................................................................................ 39
   - Obstetrics and Gynecology .......................................................... 41
   - Orthopaedic Surgery .................................................................... 50
   - Pathology ...................................................................................... 55
   - Pediatrics ...................................................................................... 59
   - Pharmacology ............................................................................... 72
   - Physiology and Cell Biology ........................................................ 81
   - Psychiatry ...................................................................................... 87
   - Radiology ...................................................................................... 96
   - Surgery ........................................................................................ 100
   - Biomedical Library ....................................................................... 112
   - Center for Lung Biology ............................................................... 117
   - Center for Healthy Communities ................................................... 120
   - Center for Strategic Health Innovation .......................................... 123
   - Center for Disaster Preparedness ................................................... 126
   - Comprehensive Sickle Cell Center .................................................. 129

II. Report from Office of Development and Alumni Relations .................. 133

III. Report from Division of Medical Education and Student Affairs .......... 136

IV. Report from Admissions .................................................................. 154

V. Report from Continuing Medical Education ........................................ 157

VI. Report from Graduate Medical Education ......................................... 158

VII. Report from Medical Student Summer Research Program .................. 164

VIII. Report from the Graduate Program in Basic Medical Sciences ............ 169

IX. Summary of Extramural Support ...................................................... 173
FOREWORD

This Annual Report of the College of Medicine catalogues recent accomplishments of our faculty, students, residents, fellows and staff in teaching, research, patient care, scholarly and community service activities during the 2015-16 academic year. Our 2016 graduating class, the first group of students experiencing the revised four year curriculum performed above the national average on National Board Step 1 and Step 2 exams and received excellent residency positions in a variety of clinical disciplines. Several key leadership changes occurred during the year including the culmination of a national search for a new dean and vice president for medical affairs. Dr. John V. Marymont assumed the dual title on July 1, 2016 having served previously as chair of the department of orthopaedics and interim dean at LSU Shreveport School of Medicine. Changes in leadership within the USA Health System included the retirement of Mr. Stanley Hammack as vice president and the appointments of Mr. Owen Bailey as chief operating officer and Dr. Alan Whaley as chief strategy officer for USA Health. A major initiative began in preparation for the implementation of a comprehensive, integrated health information system known as Unity. Effective collaboration of all administrative units, the new information platform and the entire USA health system is key to avoid compromising the educational and other important missions of the College of Medicine. Finally, I regret to acknowledge that several former members of the college’s leadership team died during this year: Drs. Jeffrey C. Brandon, Robert A. Kreisberg, Angus McBryde, Jr., John Shackleford, Aubrey E. Taylor, and J. Allan Tucker, Jr. This issue of the Annual Report is dedicated in their memory and in appreciation for their dedication, commitment and contributions.

Samuel J. Strada, Ph.D.
Dean Emeritus
USA College of Medicine
1. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Gerthoffer WT. Invited speaker. MicroRNA targets for therapy of asthma. Mayo Clinic Department of Physiology and Biomedical Engineering; 2016 Apr 14; Rochester, MN.


Honkanen RE. Invited speaker. Selectivity of cantharidin and novel norcantharidin-type inhibitors of PP5C. 2016 Federation of American Societies for Experimental Biology Science Research Conference on Protein Phosphatases; 2016 Jul 17; Steamboat Springs, CO.

Richter W. Invited speaker. PDEs in cAMP signaling. Experimental Biology 2016; 2016 Apr 6; San Diego, CA.

V. NATIONAL PROFESSIONAL RECOGNITION


Donna Cioffi: Reviewer: American Heart Association / Reviewer (Lung); NIH / Reviewer (Special Emphasis Panel); Journal Peer Review: Antioxidants and Redox Signaling; Frontiers in Physiology: Vascular Physiology/Editorial Board Member.


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 department is a comprehensive academic unit that makes significant contributions to the education, research and service missions of the College of Medicine and the University. The faculty participate actively in the systems-based medical curriculum where they deliver case-based lectures, self-directed learning lessons and team-based learning lessons. Instructors supply biochemistry and molecular biology expertise to the initial basic science module in year one (Foundations of Human Health), as well as gastrointestinal, musculoskeletal, endocrine and cardiovascular modules. All faculty members contribute to multiple graduate science courses in Lung Biology and Cell and Molecular Biology tracks of the BMS Ph.D. program. Seven graduate students from the Lung Biology and the Cell and Molecular Biology tracks of the graduate program were trained with department faculty. Ms. Sabrina Ramelli, GSIV, received an abstract travel award from the American Thoracic Society. One MS student from the Toxicology program at USA was also trained in the department. The department also hosts a number of rising freshman and rising sophomore medical students as well as an undergraduate student.

Department research groups study cancer cell biology, cardiovascular diseases and lung diseases. Dr. Donna Cioffi is funded by NIH to study calcium signaling in pulmonary vascular endothelium. Dr. Steve Lim received a new grant in aid from the American Heart Association to investigate novel nuclear functions of focal adhesion kinase in vascular wall remodeling. Wito Richter received a new grant from the Cystic Fibrosis (CF) Foundation to investigate phosphodiesterases as potential therapeutic targets for CF. Six of the 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. Drs. Gerthoffer and Honkanen have developed ties with the biotechnology and pharmaceutical industries for translation of their basic science discoveries to new drugs. One student Jared McLendon (Gerthoffer) was supported by a pre-doctoral fellowship from the American Heart Association. New grant applications from every faculty member and from graduate students have been submitted or are in development throughout the academic year.

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 an appropriate level resulting in a positive impact on our respective scientific fields. In addition to professional service the faculty contribute significant time and expertise to College of Medicine and University governance and committee functions.
2015-2016
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. Jonathan G. Scammell: Editorial Advisory Board, Journal of Pharmacology and Experimental Therapeutics; Reviewer, Bioessays, General and Comparative Endocrinology, American Biology Teacher. Board Member, Alabama Board of Medical Scholarships.

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 equipment 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.

The University Biological Resources, including the ABSL-3 suite at the Laboratory of Infectious Diseases, is accredited by AAALAC International and the facility also underwent a favorable inspection by the United States Department of Agriculture 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 Dauphin Island Sea Lab, the Mitchell Cancer Institute, the Colleges of Arts and Sciences and Engineering, and the Departments of Biochemistry and Molecular Biology, Pharmacology, 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 holds 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 to study the role of the immunophilin protein FKBP51 in endothelial cell function. 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 Institutional 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. Outside of the college, Dr. Scammell chaired the University’s Committee on Standards in the Conduct of Research and sits on Scholarship and Financial Aid Committee, the University Committee on Diversity and Inclusion and the USA Health Branding Advisory Team.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Sternberg ML. “My skin is peeling” – case of mucocutaneous lupus. American College of Emergency Physicians Southeastern Chapters Educational Conference: Trauma 2016; 2016 Jun 6-9; Destin, FL.

Sternberg ML. “I have a rash” – case of Henoch-Schonlein purpura. American College of Emergency Physicians Southeastern Chapters Educational Conference: Trauma 2016; 2016 Jun 6-9; Destin, FL.

Sternberg ML. “I can’t see” – case of choroidal melanoma. American College of Emergency Physicians Southeastern Chapters Educational Conference: Trauma 2016; 2016 Jun 8; Destin, FL.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Panacek EA. Invited speaker. Pretest/introduction to workshop. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 2; Dallas, TX.


Panacek EA. Invited speaker. Research questions. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 2; Dallas, TX.


Panacek EA. Invited speaker. Introduction to study design. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 2; Dallas, TX.

Panacek EA. Invited speaker. Practicum: your study question. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 2; Dallas, TX.

Panacek EA. Invited speaker. True experimental designs (RCT, etc). American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.


Panacek EA. Invited speaker. Case control and other designs (non-experimental). American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.

Panacek EA. Invited speaker. Recognizing designs. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.


Panacek EA. Invited speaker. Survey research. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.

Panacek EA. Invited speaker. Qualitative studies. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.
Panacek EA. Invited speaker. Practicum: selecting your study design. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 3; Dallas, TX.

Panacek EA. Invited speaker. Elements of a study protocol. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 4; Dallas, TX.


Panacek EA. Invited speaker. Practice discussion. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 4; Dallas, TX.

Panacek EA. Invited speaker. Sample size calculations. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 4; Dallas, TX.


Panacek EA. Invited speaker. Instructions for between-session requirements. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 4; Dallas, TX.

Panacek EA. Invited speaker. Developing research data forms. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Data collection and QA. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Organizing a study spreadsheet. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Spreadsheet practicum. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.
Panacek EA. Invited speaker. Working with Excel spreadsheet (use of “dummy variables”). American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Data summaries with Excel. American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Excel based data set practicum (filtering and counting the database; measurement scales and types of data; simple descriptive statistics). American College of Emergency Physicians Emergency Medicine Basic Research Skills Workshop; 2015 Nov 5; Dallas, TX.

Panacek EA. Invited speaker. Syncope evaluation in the ED. Northwest Seminars Emergency Medicine Update; 2015 Nov 9; Maui, HI.

Panacek EA. Invited speaker. Sepsis: current state of the art. Northwest Seminars Emergency Medicine Update; 2015 Nov 9; Maui, HI.


Panacek EA. Invited speaker. ABEM LLSA articles review 2015: part I. Northwest Seminars Emergency Medicine Update; 2015 Nov 13; Maui, HI.

Panacek EA. Invited speaker. ABEM LLSA articles review 2015: part II. Northwest Seminars Emergency Medicine Update; 2015 Nov 13; Maui, HI.

Panacek EA. Invited speaker. SIRs, sepsis, & shock. Mobile Infirmary Grand Rounds; 2015 Dec 15; Mobile, AL.

Panacek EA. Invited speaker. SIRs, sepsis and shock: update: 2016. University of South Alabama College of Medicine Alumni Association Weekend; 2016 Jun 3; Orange Beach, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Edward A. Panacek Chairman, Department of Emergency Medicine; member of the Society of Academic Emergency Medicine; member of American College of Emergency Physician for Alabama and National; 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, Western Journal of Emergency Medicine; Technical Advisor, writer and actor, “Untold Stories from the ER” (TLC, cable).

Michael R. Ambrose Member of the Secretary of Veterans Affairs Advisory Committee for Former Prisoners of War. He also serves on the Residency Advisory Committee for The Aerospace Medicine Residency Committee at the Naval Aerospace Medicine Institute.

Frank S. Pettyjohn 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, Medical Director, Region 6, State of Alabama (Gulf Coast) EMS Region, Peer Reviewer, Journal of Aviation, Space, and Environmental Medicine.

Michael L. Sternberg 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), Society for Academic Emergency Medicine, Clerkship Director Academy.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Emergency Medicine, during this period, was focused on stabilizing clinical patient care, improving operations and faculty development/recruitment. This was the first complete year for Dr. Panacek as the new Chairman. During this year, Clinical Care and Operational Issues were substantially improved in multiple important national metrics and other public recording card measures. The Clinical Faculty coverage was stabilized. Some Faculty took on new responsibility in terms of educational and administrative programs. The Department increased its Faculty participation on Committees and working groups both within the College of Medicine and the Health System. Educational programs were better coordinated and given greater structure. Faculty Recruitment added an important new physician. Dr. Bowden has extensive Emergency Medicine clinical experience but also leadership experience and will be taking on administrative rolls in the year ahead. He also is the Medical Director for the Mobile County EMS System and will be engaging in outreach in those areas. Dr. Panacek was the keynote speaker at the USA-COM White Coat Ceremony.

The goal of further enhancing educational programs remains a priority for the coming year as well as the development of an Emergency Medicine Residency Program. This past year was spent identifying both strengths and weaknesses in terms of a Residency Program application and securing administrative support to move forward with an application.
EDUCATION:  The Faculty of the Department of Emergency Medicine emphasizes high quality bedside teaching in the Emergency Department. This year focused educational materials were added to the rotations. These include required readings for some rotations as well as a broad array of optional readings, all added to a USA Sakai website. The incorporating of quizzes also is being initiated. The process of Resident and Student evaluations has been centralized and better coordinated. The goal is close collaboration and cooperation with various colleges, schools and residency programs that provide learners to the Emergency Department environment.

Dr. Michael Sternberg has taken on primary responsibilities for student education. Drs. Bolton and Seaman also have taken on additional responsibilities to better coordinate Intern education in the Emergency Department.

FACULTY DEVELOPMENT:  During this year, all fulltime Emergency Medicine Faculty were encouraged to take on additional administrative or program development responsibilities. Some have chosen to do so. Dr. Sternberg has formally been named the Director of Student Rotations or Clerkship Director. Dr. Bowden is taking on EMS and Pre-Hospital Care Directorship for the health system. Dr. Berg is becoming involved with a wilderness medicine teaching activities. Dr. Seaman has taken on a focused performance improvement and quality assurance responsibilities as well as helping coordinate Intern Rotations in the Emergency Department. Other faculty are being encouraged to also take on additional responsibilities.

Recruiting activities are ongoing very actively. This past year a new faculty member was brought on full time (Dr. Bowden), and other faculty have increased their clinical work at UMC. A secondary appointment in Emergency Medicine has been added for Dr. Kevin Bradley, who is dual boarded, with his primary appointment in Radiology.

The development of an Emergency Medicine Residency Program is the primary focus. Additional faculty recruitment and development will be geared towards identifying core faculty to support such an application.

CLINICAL FACILITIES:  During the 2015-2016 program year, the Department of Emergency Medicine endeavored to support the clinical activities of the health system, particularly as they relate to Emergency and Acute Care Medicine. Equipment in the Emergency Department was improved in a number of areas; including gurneys, monitors and specialized equipment such as Ophthalmologic Slit Lamp. Central monitoring has be upgraded to improve the safety of patients. The physicians work area has also been remodeled to improve efficiency and prepare for an electronic health record implementation. The Emergency Department continues to provide strong support to the Trauma Service, the Stemi Alert System and Acute Stroke activation patients. The Department of Emergency Medicine has increasingly built ties with the evaluation center at Childrens and Womens Hospital with the goal of further integrating and incorporating Emergency Medical Care across the entire health system.
**RESEARCH:** During this past year, the focus of the Department has been on clinical care, operations in the Emergency Department and improving educational activities. The Department has continues to participate in scholarly activities and a number of publications have occurred. This has largely been the result of only two of the Faculty. The goal is to expand scholarly activities and original investigative research in the future.

The Department continues to have clinical research space in the Moorer Building at the USA Medical Center Campus. Previous NIH funded studies in collaboration with the Department of Medicine were on going but are nearing the end. Two industry sponsored clinical trials continue at this time. This core research infrastructure in being maintained with the goal of expanding a clinical research program in the near future with further faculty recruitment and development.

**GOALS:**
Goals for the next year include (1) further faculty recruitment and development, (2) refinements to ongoing educational activities in the Emergency Department, (3) drafting of an Emergency Medicine Residency program application, (4) improvements in Emergency Department operations and performance metrics, (5) expansion of scholarly activities of the department, and (6) increased faculty involvement in both intramural and extramural service activities.
2015-2016
Summary of Scholarly Activities
Department of Family Medicine

I. Published Journal Articles, Book Chapters, and Patents


II. Published Abstracts

III. Published Books

IV. Invited Presentations

Linder MM. Invited speaker. Paroxysmal exertion related dyskinesis. American Medical Society for Sports Medicine 25th Annual Meeting; 2016 Apr 19; Dallas, TX.

Linder MM. Invited speaker. Reading x-rays. Alabama Academy of Family Physicians 2016 Annual Meeting and Scientific Symposium; 2016 Jun 19; Destin, FL.

Molokhia E, Perkins A. Invited speakers. Moving the focus upstream: teaching about (and caring for) patients with complex illness in the family medicine center and across the continuum. Society of Teachers of Family Medicine Annual Spring Conference; 2016 May 3; Minneapolis, MN.

Motley C, Rudd A, Butts-Wilkerson A. Invited speakers. Teaching medical students chronic care management: evaluation by faculty-reviewed OSCEs. Society of Teachers of Family Medicine Conference on Medical Student Education; 2016 Jan 29; Phoenix, AZ.

Perkins A. Invited speaker. The healthcare mess and how we got here. University of South Alabama Center for Generational Studies Legacy Leadership Institute; 2016 Jun 15; Mobile, AL.

Trimmer MC. Invited speaker. Medicare’s role in the healthcare mess. University of South Alabama Center for Generational Studies Legacy Leadership Institute; 2016 Jun 15; Mobile, AL.
V. NATIONAL PROFESSIONAL RECOGNITION


Ehab A. 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, which submitted its Twelfth Annual Report entitled “Health Literacy and Patient Engagement, to the Secretary of the United States Department of Health and Human Services and the Congress of the United States; Reviewer, Family Medicine, American Family Physician, Journal of Family Medicine; Board Member, Association of Departments of Family Medicine; Member and Past President, Alabama Rural Health Association; Member, Alabama Academic Family Medicine Council.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Marirose Trimmier joined the faculty in April. She is a 2001 graduate of our Family Medicine residency program having served as Co-Chief in the third year. After residency she entered private practice in Toccoa, Georgia and Orange Beach, Alabama until she joined the department as full-time faculty. During her time in private practice in Alabama she was affiliated with the College of Medicine as Adjunct Assistant Professor and was actively involved as a preceptor in the Family Medicine Third Year Clerkship. Dr. Trimmier has assumed the role of Assistant Undergraduate Medical Education Director.

Dr. Carol Motley 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 2016 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.

Dr. Allen Perkins was awarded a multi-year grant from the Health Resources and Services Administration to fund the project, “Caring for the Complex Patient in the PCMH,” the purpose of which is to improve the health of the population cared for in the USA Family Medicine Center and by extension the region through the incorporation of the enhanced use of data, population metrics, mental health access, and team based care in the family medicine, mental health and pharmacy training environment.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Moawad FJ, Young PE, Gaddam S, Vennalaganti P, Thota PN, Vargo J, Cash BD, Falk GW, Sampliner RE, Lieberman D, Sharma P. Barrett's oesophagus length is established at the time of initial endoscopy and does not change over time: results from a large multicentre cohort. Gut. 2015 Dec;64(12):1874-80.


II. PUBLISHED ABSTRACTS


Acker BW, Di Palma JA. Antiproteinase 3 (PR-3) antibody positivity can be used to predict a more severe course of ulcerative colitis. J Investig Med. 2016 Feb;64(2):656. Abstract no. 408.


Carney C, Bennett D, Omar B. Disparity in control of cardiac risk factors according to gender. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.


Gadde S, Bennett D, Qureshi G, Omar B. Gender and race variation of widened pulse pressure with age. J Am Soc Hypertens. 2016 Apr;10(4 Suppl):e44-5. Abstract no. 269 P-64. Available from: http://ac.els-cdn.com/S1933171116301097/1-s2.0-S1933171116301097-main.pdf?_tid=252479a8-8b0d-11e6-ba93-00000aab0f01&acdnat=1475680105_3672ffe52b22126dabeae4200fb0c00c

Gadde S, Malozzi C, Omar B. Lipid management challenges in different clinical settings. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.

Gadde S, Malozzi C, Omar B. Lipid management challenges in different clinical settings. Alabama Chapter of the American College of Cardiology Annual Meeting; 2016 Jun 10-12; San Destin, FL.


Joshi V, Cash BD, McKinley M, Tarnasky PR, Chang KJ, Singh SK, Wallace MB, Navaneethan U, Smith MS. Volumetric laser endomicroscopy guides both selection of


Moses A, Qureshi G, Omar B. Prevalence and type of errors in electrocardiographic recordings. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.


Omar M, Kolakalapudi P, Malozzi C. Comparison of gated SPECT, echocardiography and angiography ejection fractions. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.

Omar M, Kolakalapudi P, Malozzi C. Comparison of gated SPECT, echocardiography and angiography ejection fractions. Alabama and Mississippi Chapters of the American College of Physicians Scientific Meeting; 2016 Jun 2-5; Birmingham, AL.


Shofu A, Mustafa Awan G, Omar B. Obesity trends by race in a primary cardiology clinic. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.


Ul Haq E, Omar B, Szombathy T. Predictive value of electrocardiographic criteria in severe left ventricular hypertrophy. Alabama Chapter of the American College of Cardiology Winter Conference; 2016 Jan 9; Birmingham, AL.


III. INVITED PRESENTATIONS

Arrieta MI. Invited speaker. Community based participatory research: is there any value for translational researchers? University of Alabama at Birmingham Center for Clinical and Translational Science (CCTS) Training Academy; 2016 May 5; Birmingham, AL.


Broughton W. Invited speaker. Sleep: art, light & culture. 38th Annual Southern Sleep Society Conference; 2016 Apr 10; Asheville, NC.

Cash BD. Invited speaker. Treatment of IBS-diet or drugs? American College of Gastroenterology, 2016 Eastern Regional Postgraduate Course; 2016 Jun 26; Washington, D.C.


Cash BD. Invited speaker. PPI therapy is best for most GERD patients. Minimally Invasive Surgery Symposium 2016; 2016 Feb 24; Las Vegas, NV.


Cash BD. Invited speaker. IBS in 2015: what’s new and what works. American College of Gastroenterology 2015 Southern Regional Postgraduate Course; 2015 Dec 5; Nashville, TN.

Crook E. Invited speaker. Walking the path to “influence” in academic medicine. Harold Amos Medical Faculty Development Program 2015 Annual Meeting; 2015 Oct 7; Dallas, TX.

Crook E. Invited speaker. The social determinants of health: a focus on poverty. 17th Annual University of Alabama Rural Health Conference; 2016 Apr 26; Tuscaloosa, AL.
Di Palma JA. Invited speaker. Opioid-induced constipation: the science, the struggle, and an orally administered treatment option. American College of Gastroenterology 2015 Annual Scientific Meeting and Postgraduate Course; 2015 Oct 20; Honolulu, HI.

Fell D, Day M, Schilthuis A. Invited speakers. An international interprofessional learning experience: a real-life clinical experience in Trinidad for students in PT, OT, AuD, PA, MD, RN programs. University of South Alabama Conference on Teaching and Learning 2016; 2016 May 9; Mobile, AL.

Graham G, Ballard H. Invited speakers. Late diagnosis of atrial myxoma. University of South Alabama College of Medicine Case Report Symposium; 2016 Jun 24; Mobile, AL.

Haynes J Jr. Invited speaker. Shadows of yesterday, reflections of tomorrow II. Alpha Elites Senior Banquette, Bishop State Community College; 2016 Jun 3; Mobile, AL.

Haynes J Jr. Invited speaker. Pathology of the disease and manifestation of sickle cell disease. Sickle Cell Counselor/Educator Program, Sickle Cell Disease Association of American-Mobile Chapter; 2015 Nov 17; Mobile, AL.

Haynes J Jr. Invited speaker. Pulmonary complications of sickle cell disease. 1st Annual Sickle Cell Disease Symposium; 2015 Oct 24; Charlotte, NC.


Hundley TJ. Invited speaker. From sisyphus to the phoenix: burnout and resiliency in physicians. University of South Alabama College of Medicine Alumni Association Weekend; 2016 Jun 3; Orange Beach, AL.


Omar B. Invited speaker. Anticoagulation in atrial fibrillation. James A. Haley VA Hospital; 2016 Mar 29; Tampa, FL.

Qureshi G. Invited speaker. CHIP; hemodynamic support and complex PCI. 2016 Jan 23; Fort Lauderdale, FL.


Schilthuis A. Invited speaker. Vaccines in the primary care practice. University of South Alabama College of Medicine Alumni Association Weekend; 2016 Jun 3; Orange Beach, AL.

IV. NATIONAL PROFESSIONAL RECOGNITION


Barbara Burckhartt. Heart failure team received 2016 American Heart Association Get With The Guidelines (GWTG) Heart Failure Gold Plus Quality Achievement Award.

Brooks Cash. Course Director, Southern Regional Course, American College of Gastroenterology, Nashville, TN, Dec 5-6, 2015.

Brooks Cash. Course Director and Moderator, Recertification Course, American College of Gastroenterology Annual Meeting, Honolulu, HI, Oct 17, 2015.

Michael Cohen. Basic Research in Cardiology; editorial board member.

Johnson Haynes Jr: Listed: America’s Top Doctors; Best Doctors in America; 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; Sickle Cell Disease Council for Change, Pfizer Inc. Workshop.

Christopher Malozzi. Awarded Fellowship; The American College of Cardiology 2015.

Bassam Omar. The American College of Cardiology, Alabama Chapter, meeting planning and educational committee membership, and abstract grading committee member 2015/2016.


Bassam Omar. Awarded Fellowship; The American Heart Association (Silver Heart Member), Council on Clinical Cardiology 2015.

V. 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 18 consecutive years the Internal Medicine Clerkship has been recognized as the best clerkship for third year medical students. The Class of 2016 again honored the department with this award. Several of the departmental
faculty was recognized with the red sash award for their educational efforts and the graduating Class of 2016 again selected faculty members as the best teachers in the clinical years (Dr. Terry J. Hundley and Dr. Errol Crook). Department members have been instrumental in developing the new curriculum for the medical school with several serving as the clinical co-director for the modules for the first and second-year curriculum. The Class of 2016 was the first to graduate having had all 4 years of the new curriculum and their performance was outstanding.

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

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

**Scholarly Efforts**

The department has continued to be productive in scholarly achievements, particularly in the area of publications. The Divisions of Gastroenterology, Pulmonary and Critical Care, and Cardiology had particularly successful years in the arena. The residents have been active in scholarly activity and have made presentations at regional and national 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 its 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 Department of Biochemistry, in a translational project funded through the Center for Healthy Communities P-20 Grant. This unique award examines the role of a protein, HSP27, as a unique marker of atherosclerosis and its potential contribution to health disparities seen in cardiovascular disease in African-American populations. The Division of Pulmonary has continued its partnership with the Center for Lung Biology and has continued clinical, basic and translational studies in pulmonary hypertension. Infectious disease continues its efforts in care of the HIV patient through a grant funded by the Health Resources and Services Administration. Dr. Crook, Department Chair, has led a study examining the impact of exposure to toxins to clean-up workers of the BP Horizons Gulf Oil Spill. This study is run by the NIH’s National Institute for
Environmental Health Sciences (NIEHS). Dr. Crook’s team examined nearly 2500 participants for impact of exposure on respiratory and neuro-cognitive function, mental health, and other health effects. Members of the Division of General Internal Medicine have taken a lead on patient safety and quality projects. Many of these projects are performed in partnership with the USA Medical Center.

Service
The department continues to deliver excellent clinical service. The department has seen an increase in his clinical services at the USA Medical Center. The Division of Gastroenterology has continued to grow its services for advance endoscopy procedures. These advancements have enhanced partnerships with the Mitchell Cancer Institute and the Division of Colorectal Surgery. The Division of Cardiology continues to increase its services in interventional procedures on coronary arteries and peripheral vascular disease. The Division of Infectious Disease remains a leader in HIV care for the region in both the inpatient and ambulatory setting. The Division of General Internal Medicine has been able to have members who are focused on ambulatory medicine or inpatient medicine (hospitalist). This has enhanced delivery of services in both arenas. The ambulatory focused faculty have developed and grown a faculty based general internal medicine clinic.

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


II. PUBLISHED ABSTRACTS

Custodio H, Norton T, Fortwendel JR. Growth inhibitory effect of cerivastatin against yeasts and *Aspergillus fumigatus*. Open Forum Infect Dis. 2015 Fall;2(Suppl 1);S149. Abstract no. 788.

Ferretti AP, Beedy CM, Barrington RA. Autoantibody-mediated PAP in mice requires Myd88 in B cells. J Immunol. 2016 May 1;196(Suppl 1);47.12.


### III. PUBLISHED BOOKS
IV. INVITED PRESENTATIONS

Barrington RA. Invited speaker. Micro environment and lymphocyte fate. Mitchell Cancer Institute Collaborative Forum, Laboratory of Infectious Diseases; 2016 Feb 19; Mobile, AL.

Barrington RA. Invited speaker. Herpes stromal keratitis; of mice and men. District 34C Board Meeting, Lions Eye Research Foundation; 2016 Jan 20; Mobile, AL.

Barrington RA. Invited speaker. Cutting edge technologies applied to eye disease. District 34C Cabinet Meeting, Lions Club of Alabama; 2015 Nov 7; Mobile, AL.


Brett PJ. Invited speaker. Development of synthetic oligosaccharide-based vaccines using protective epitopes from *Burkholderia pseudomallei* O-antigens. 8th World Melioidosis Congress; 2016 Aug 10; Cebu, Philippines.

Burtnick MN. Invited speaker. Differential activation of RAW 264.7 macrophages by *Burkholderia pseudomallei* T3SS mutants. 8th World Melioidosis Congress; 2016 Aug 10; Cebu, Philippines.

Burtnick MN. Invited speaker. Melioidosis and glanders: molecular aspects of pathogenesis. MMBio Seminar, Brigham Young University; 2016 Jan 21; Provo, UT.

Burtnick MN. Invited speaker. Melioidosis and glanders: molecular aspects of pathogenesis. Tulane University School of Medicine; 2015 Nov 19; New Orleans, LA.

V. NATIONAL PROFESSIONAL RECOGNITION


Robert A. Barrington: Ad Hoc Grant Review, American Heart Association Immunology


Jarrod R. Fortwendel: Ad-hoc Member Pathogenic Eukaryotes (PTHE) Study Section National Institutes of Health, October 2015.

David O. Wood: Member, American Society for Microbiology (ASM) Committee on Ethics; Member, Association of Medical Microbiology & Immunology Chairs.

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

The Department continued its dedicated commitment to medical and graduate student teaching. All departmental faculty members participated in the Infectious Disease and Host Defense (IHD) module. Since the infectious disease thread winds its way through almost all the modules, Microbiology and Immunology faculty contributed throughout the medical school curriculum. Dr. Foster continued his exceptional service as IHD module director. Graduate student teaching was organized through the Infectious
Diseases and Host Defense Track (IDHD) directed by Dr. Paul Brett. Three students are matriculating in this program. Our first student to enter the program, Tiffany Norton, will defend her dissertation this Fall. A departmental priority is to generate funds to support a critical mass of outstanding students within the IDHD Track. In addition to track-specific courses (Microbes and Host Defense, Microbial Pathogenesis, Advanced Immunology) the Department conducts a bimonthly Journal Club and Research Forum.

Additional teaching efforts were directed toward high school and undergraduate students. Dr. Audia conducted an outreach program with the St. Luke’s Episcopal School Grade 9 Biology Class. The goal of this program was to expose high school students to the basic principles of antimicrobial agents using bacteria as a model system. COM graduate students Peter Favreau and Sabrina Remelli, and Post-doctoral Fellow Dr. Adam Morrow assisted Dr. Audia in this effort. The graduate students were involved in the development and execution of the laboratory exercise and were given the experience of grading high school student laboratory reports. The overarching future goal is to develop a graduate level course to give our students experience in preparing and delivering content as instructors. This program also led to two high school students from the inaugural session volunteering in Dr. Audia’s laboratory for 2-days per week over the summer months. The students were exposed to the everyday workings of a molecular biology lab in order to foster their understanding of DNA and how it can be manipulated experimentally. This program has led to one of the students (Ella Johnson) returning this summer to the lab to continue working in the Volunteer Internship Program through the Office of Undergraduate Research. Another high school student, Emily Wichmann rotated through Dr. Wood’s laboratory in 2016 and an undergraduate student, Angela McGaugh, working in Dr. Wood’s laboratory, has begun an honors research thesis.

The Department is actively recruiting to fill faculty vacancies. Recruitment is especially critical since Dr. Jarrod Fortwendel accepted a position in June at the University of Tennessee in Memphis. The Department is focusing on filling multiple positions in the areas of immunology and microbial pathogenesis that will complement and extend existing programs. The Laboratory of Infectious Diseases (LID), which became fully operational last year, provides laboratories functioning at Biosafety Level 2 (BSL-2) and Biosafety Level 3 (BSL-3) containment and is available for new recruits. Currently, Drs. Audia, Brett, Burtnick, and Wood are conducting funded projects that require BSL-3 containment. We are also recruiting to available space in the Medical Sciences Building.

Departmental faculty members have sustained successful research programs and continue to pursue extramural funding. Dr. Audia and his collaborator, Dr. Alvarez in the Department of Pharmacology, continued their NIH-funded research on “Caspase-1, the microvascular endothelium, and infection”. Dr. Barrington received a second year of funding 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 for studies examining herpes eye infections and the associated immunological response that can result in blindness. This research is being conducted by his student, Steffani Fitzpatrick. The Lions Club is a long-time supporter of eye research at the University of South Alabama. Dr. Barrington was promoted to the rank of associate professor this year. Dr. Brett and Dr. Burtnick have established internationally-recognized, well-funded programs targeting the bacterial agents responsible for melioidosis and glanders. They received Phase II funding for a Department of Defense (DoD) SBIR award targeting high-affinity monoclonal antibodies against *Burkholderia* polysaccharides and they continued their Defense Threat Reduction Agency (DTRA)-funded work on vaccines against melioidosis and glanders. They have been recommended for two additional DTRA contracts. Their laboratories are also making a recognized impact in the area of diagnostics for these diseases and they have established a Glycobiology Resource Center at USA to provide rapid serodiagnostic assays. Drs. Brett and Burtnick served as Co-chairs of the Immunology 2 session at the 8th World Melioidosis Congress held in Cebu, Philippines. Dr. Burtnick was promoted to Associate Professor with tenure this year. Dr. Fortwendel, prior to his departure in June, and Dr. Wood continued their NIH funded studies on pathogenic mechanisms of *Aspergillus fumigatis* and *Rickettsia prowazekii*, respectively.

The Department hosted five Distinguished Scientist Speakers. One of the speakers was our own Dr. Mary Burtnick who presented a seminar entitled “Melioidosis and Glanders, Molecular Aspects of Pathogenesis”. Dr. Janice Endsley, Associate Professor in the Department of Microbiology and Immunology at the University of Texas Medical Branch in Galveston presented a seminar entitled “*Mycobacterium tuberculosis* Reactivation in the Setting of HIV Co-infection”. Dr. Mary Jane Thomassen, Professor and Director of the Program in Lung Cell Biology and Translational Research at the Brody School of Medicine, East Carolina University presented a seminar entitled “Pulmonary Aveolar Proteinosis (PAP): A Disease of Mice and Men”. Dr. David P. AuCoin Associate Professor and Chair, Department of Microbiology and Immunology, University of Nevada, Reno presented a seminar entitled “Development of Antibody Based Diagnostics and Therapeutics for Melioidosis”. Dr. Kevin R. Macaluso, Professor, Vector-borne Disease Laboratories, School of Veterinary Medicine, Louisiana State University presented a seminar entitled “Unraveling the Biology of Emerging Rickettsial Pathogens”.

Emeritus Professor Dr. Herbert Winkler passed on August 2, 2016. Dr. Winkler, an internationally renown scientist, was the Lenoir Louise Locke Professor of Microbiology and Immunology and served as Vice-Chair of the Department for 35 years before his retirement in 2013.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS


IV. INVITED PRESENTATIONS

Bassam B. Invited speaker. Lumbar radiculopathy plexopathy. 62nd Annual Meeting of the American Association of Neuromuscular & Electrodiagnostic Medicine; 2015 Oct 28; Honolulu, HI.

Bassam B. Invited speaker. Inclusion body myositis. 62nd Annual Meeting of the American Association of Neuromuscular & Electrodiagnostic Medicine; 2015 Oct 29; Honolulu, HI.

Bassam B. Invited speaker. Critical care myopathy and neuropathy. 43rd Annual Meeting of the Southern Clinical Neurological Society; 2016 Jan 20; Riviera Beach, FL.

Bassam B. Invited speaker. NCS pitfalls. 62nd Annual Meeting of the American Association of Neuromuscular & Electrodiagnostic Medicine; 2015 Oct 28; Honolulu, HI.

Bassam B. Invited speaker. Evaluating generalized weakness in the ICU. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 2; Orange Beach, AL.

Chalhub E. Invited speaker. Can we prevent cerebral palsy? Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 2; Orange Beach, AL.

Dees D. Invited speaker. Deep brain stimulation for Parkinson’s disease and essential tremor. Biloxi Community Education on Parkinson’s Disease; 2015 Oct 16; Biloxi, MS.
Dees D. Invited speaker. Identifying common movement disorders. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 2; Orange Beach, AL.

Dees D. Invited speaker. Botulinum treatment of spasticity and dystonia. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 2; Orange Beach, AL.

Maertens P. Invited speaker. SSPE and neurologic complications of measles: the returning storm. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 3; Orange Beach, AL.

Minto E. Invited speaker. New MS therapies: improving benefit to risk. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 2; Mobile, AL.

Minto E. Invited speaker. Migraine: diagnosis, management, and special considerations. The Twenty-Fifth University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 14; Daphne, AL.

Minto E. Invited speaker. Update on PML and current MS treatment, and risk mitigation. 43rd Annual Meeting of the Southern Clinical Neurological Society; 2016 Jan 20; Riviera Beach, FL.

Naritoku DK. Invited speaker. Epilepsy didactics. Texas Tech University School of Medicine Grand Rounds; 2015 Dec 16; Fort Worth, TX.

Naritoku DK. Invited speaker. Cannabis, electricity and other curious treatments for epilepsy. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 1; Orange Beach, AL.

Naritoku DK. Invited speaker. Choosing antiepileptic drug therapies. Third Annual University of South Alabama Neuroscience Symposium; 2016 April 2; Orange Beach, AL.

Naritoku DK. Invited speaker. Newest antiepileptic drug therapies: what is their role? Wake Forest University School of Medicine Grand Rounds; 2016 Sep 6; Winston-Salem, NC.

Ochoa JG. Invited speaker. EEG como herramienta para localizar el foco epileptico. American Clinical Neurophysiology Society 2016 Annual Meeting & Courses; 2016 Feb 13; Orlando, FL.

Ochoa JG. Invited speaker. Identification and localization of dual adjacent foci using source localization software and EEG. Southern Epilepsy & EEG Society 2016 Annual Meeting; 2016 Mar 4; Charleston, SC.

Ochoa JG. Invited speaker. EEG and video EEG review. Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 3; Orange Beach, AL.
V. NATIONAL PROFESSIONAL RECOGNITION


Elizabeth Minto: Member: American Academy of Neurology, Medical Association of the State of Alabama; President: Medical Society of Mobile County.

Dean K. Naritoku: President: Southern Epilepsy and EEG Society; Member: American Academy of Neurology, American Epilepsy Society Scientific Committee, American Academy for the Advancement of Science, American Medical Association, Society for Neuroscience, American Society for Clinical Pharmacology and Therapeutics, American Society for Clinical Neurophysiology; Editorial Board Member: Neurology Research; Chairman: Task Force on Brain Stimulation for American Epilepsy Society; Board Member: American Board of Clinical Pharmacology, J. Kiffin Penry Mini-Fellowship.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology continues its expansion of services for specialized neurological care. Over the last five years we have had a consistent growth in the number of unique patients and reach of the program, which includes geographic areas beyond the immediate five-county region. Among our accomplishments is the awarding of the Gold Plus Elite Award from the American Heart Association for the USA Medical Center Stroke Program. USA Medical Center is the first and only hospital in Alabama to have received this award, which is the highest award at the American Heart Association provides. The Department of Neurology anchors the stroke program and collaborates with multiple departments and disciplines including Emergency Medicine, Internal Medicine and Neurosurgery.

Other notable achievements include the successful accreditation of Dr. Minto as a Multiple Sclerosis Specialist. This will enable us to achieve national certification of our MS center. Dr. Naritoku has also been appointed as President of the Southern Epilepsy and EEG Society. Dr. Naritoku will host the society’s Annual Meeting in Mobile in the upcoming spring of 2017.
2015-2016
Summary of Scholarly Activities
Department of Neurosurgery

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Rusniak WG. Invited speaker. Neurosurgical management of penetrating brain injuries. Mississippi Coastal Trauma Care Region 15th Annual Trauma Symposium; 2016 May 4; Biloxi, MS.

Rusyniak WG. Invited speaker. Career perspective and case controversies. University of Rochester School of Medicine; 2015 Dec 18; Rochester, NY.

V. NATIONAL PROFESSIONAL RECOGNITION

Anthony M. Martino: Chair Neurosurgery, USAMC Medical Executive Committee, Clinical Chairs Committee, Operation Committee, Chair Orthopedic Chair Search Committee, Operation Committee, Infection Control Committee, Chartis Dyad Strategic Leader Development.

Eugen Quindlen: Course Director Neuroanatomical Correlation Conference, USAMC Medical Executive Committee, Risk Management Review Committee.

George Rusyniak: USA Stroke Committee.

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 departments 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 expand their neuroscience experience. The past year the department mentored one student that successfully entered competitive neurosurgical residencies.

We have added a fourth year mid-level provider that will continue with their daily support with hospital rounds and clinic activity. They also continue with an active concussion awareness program at local high schools, performing pre-season neuropsychological testing and post trauma assessment and clearance for continued play.

The Deep Brain Stimulation Program with the department of neurology (Dr. Dees) has successfully formed six cases 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 have located into our new clinical offices at Springhill Hospital, but will be moving into the Strada Center during the next year.
2015-2016
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

Baker SL. Invited speaker. Perinatal infections: diagnosis & treatment. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 15; Daphne, AL.

Brocato B. Invited speaker. Safe labor, induction, and prevention of the primary cesarean delivery. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 15; Daphne, AL.

Finan M. Invited speaker. USA Mitchell Cancer Institute overview. Midtown Optimist Club; 2015 Oct 6; Mobile, AL.

Finan M. Invited speaker. USA Mitchell Cancer Institute overview. Government Street Presbyterian Luncheon; 2016 Feb 25; Mobile, AL.

Finan M. Invited speaker. Personalized cancer care. University of South Alabama Gulf Coast Distinguished Lecture Series; 2016 Jan 12; Gulf Shores, AL.

Finan M. Invited speaker. Mitchell Cancer Institute update. Citronelle General Cancer Support Group; 2016 Aug 9; Daphne, AL.

Finan M. Invited speaker. USA Mitchell Cancer Institute overview. Rotary Club of Fairhope; 2016 Aug 10; Fairhope, AL.

Isaacson K, Rizk B, Hanafi M, Tulandi T. Participants in a video session. Myomectomy, hysterectomy and surgical treatment of adenomyosis cases. 1st International Conference of Uterine Fibroid and Adenomyosis; 2016 Sep 17; Atlanta, GA.

Lewis DF. Invited speaker. Cord clamping: is it all the hype? 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 14; Daphne, AL.

Lewis D. Invited speaker. Delayed cord clamping. 3rd Annual OB Conference for Nurses & Physicians; 2016 Feb 19; Ringgold, GA.

Lewis D. Invited speaker. Diagnosing preterm labor/FFN. 3rd Annual OB Conference for Nurses & Physicians; 2016 Feb 19; Ringgold, GA.

Rizk B. Invited speaker. AMH: Should I do it for all ICSI candidates? Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization. 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. Assisted reproductive techniques. Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization. 2015 Nov 13; Doha, Qatar.
Rizk B. Invited speaker. Assisted reproductive techniques. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 20; Cleveland, OH.

Rizk B. Invited speaker. Complications of ovarian stimulation. Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization. 2015 Nov 13; Doha, Qatar.


Rizk B. Invited speaker. Decreased libido, causes and treatments. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 14; Daphne, AL.

Rizk B. Invited speaker. Endometriosis – associated infertility. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 20; Cleveland, OH.

Rizk B. Invited speaker. Endometriosis and ART. Mini Symposium in Update in Reproductive Endocrinology & Infertility; 2015 Dec 2; Jeddah, Saudi Arabia.

Rizk B. Invited speaker. Initial assessment of the female. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 20; Cleveland, OH.

Rizk B. Invited speaker. Leiomyoma, adenomyosis diagnosis and management in infertile patient. 1st International Conference of Uterine Fibroid and Adenomyosis; 2016 Sep 17; Atlanta, GA.

Rizk B. Invited speaker. OHSS diagnosis and treatment and can it be avoided. Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization; 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. Ovarian hyperstimulation syndrome. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 20; Cleveland, OH.

Rizk B. Invited speaker. Ovarian hyperstimulation syndrome: how to avoid OHSS and how to manage severe cases. Mini Symposium in Update in Reproductive Endocrinology & Infertility; 2015 Dec 2; Jeddah, Saudi Arabia.


Rizk B. Invited speaker. Ovarian stimulation for IVF: which gonadotropin and which trigger? Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization; 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. Pathology and treatment of PCOS. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 20; Cleveland, OH.

Rizk B. Invited speaker. Pathophysiology and treatment of PCOS. Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization; 2015 Nov 13; Doha, Qatar.


Rizk B. Invited speaker. Pre IVF ultrasound assessment: do they affect outcome. Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization; 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. Ultrasound in infertility. Female Infertility Mini-Summit 2016 Summer Internship in Reproductive Medicine; 2016 Jun 21; Cleveland, OH.


Rizk B. Invited speaker. What are the new frontiers for fertility preservation, vitrification and ovarian transplantation? Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization. 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. When to do ICSI? Do you use a different stimulation protocol? Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization; 2015 Nov 13; Doha, Qatar.

Rizk B. Invited speaker. Why do euploid embryos fail to implant? What can be done to increase the chances? Advanced Workshop on Male Fertility Laboratory and In Vitro Fertilization. 2015 Nov 13; Doha, Qatar.

Roconni RP. Invited speaker. Update in gynecologic oncology: where we’ve been and where we’re going. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 15; Daphne, AL.

Varner STF. Invited speaker. Management of abnormal pap smears: an update. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 15; 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 2011-2015. In 2015, he was listed as one of the Best Doctors in America in Newsweek. 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. He is a reviewer for the following journals: Gynecologic Oncology, Obstetrics and Gynecology, American Journal of Obstetrics and Gynecology, and Southern Medical Journal.

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

Dr. Lewis is also a reviewer for the following societies: Society for Maternal-Fetal Medicine, Central Association of OB/GYN, Journal of Perinatology, and International Society for Study of Hypertension in Pregnancy.

Dr. Botros Rizk is President Elect of Middle East Fertility Society. He is a Distinguished Adjunct Professor at King Abdulaziz University in Jeddah, Kingdom of Saudi Arabia. Dr. Rizk is a Scientific Advisory Board Member for Mediterranean Society for Reproductive Medicine. He is also a member of the 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 of Reproductive Medicine (Birmingham, AL), American College of Surgeons (Chicago, IL), American Association of Bioanalysts (St. Louis, MO), Royal College of Obstetrics and Gynecologists (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 Annual Meeting. He is also a reviewer of the following journals: Human Reproduction, Fertility and Sterility, American Journal of Obstetrics and Gynecology, Molecular Human Reproduction, and Journal of Middle East Fertility Society.

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 Scandavica, 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.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Education

The department held its 25th Annual CME Conference in Obstetrics and Gynecology at the Daphne Civic Center April 14th and April 15th, 2016. Outside speakers were David Adair, MD, University of Tennessee, Knoxville; David Jackson, MD, University of Nevada; Joshua Johannson, MD, IBCLC, Cheaha Women’s Health and Wellness, Anniston, and Danny Rickert, BS, Gulf Coast Regional Care Organization. Other USA Faculty speakers were: Lynn Dyess, MD, Department of Surgery; Elizabeth Minto, MD, Department of Neurology; Richard Whitehurst, MD, Division of Neonatology-Perinatal Medicine; Michael Finan, MD, Director of Mitchell Cancer Institute; Jean Tucker, JD, MPH, BSN, Senior University Attorney; Jeff Morris, BSN, RN, Clinical Documentation Improvement Specialist. USA Department of Obstetrics and Gynecology speakers were: Susan L. Baker, MD, Brian Brocato, DO, David F. Lewis, MD, Botros Rizk, MD, Stephen T.F. Varner, MD, and Jo Ellen Roberson, MSN, CNM. 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 three 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 third study is a randomized-controlled trial looking at the efficacy of a second course of antenatal corticosteroids in patients with premature rupture of membranes.

The department is also collaborating with the division 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. The faculty continues to impact the university and community by participation research trials that can improve the quality of care for its high risk, maternity patients.

Departmental faculty continue to serve on editorial boards, as journal article reviewers, on medical advisory boards, and on grant review panels.
2015-2016
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
Brewer JL. Invited speaker. Pilon fractures: my first 6 months of practice. 27th Annual Southeastern Orthopaedic Foot Club Meeting; 2016 May 12; Point Clear, AL.

McBryde A Jr. Invited speaker. Preparing for race day. University of South Alabama Med School Café; 2016 Feb 23; Mobile, AL.

McBryde A Jr. Invited speaker. Top 3 foot and ankle ramblings. 27th Annual Southeastern Orthopaedic Foot Club Meeting; 2016 May 12; Point Clear, AL.

McBryde A Jr. Invited speaker. Fitness related injuries: how to combat overuse in the active patient. University of South Alabama College of Medicine Alumni Association Weekend; 2016 Jun 3; Orange Beach, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Angus McBryde Jr.: Member, Governing Council, American Medical Association-Senior Physicians Section; American College of Surgeons, Fellow in Good Standing; Journal of Surgical Orthopaedic Advances, 2016 Editorial Board; American Sports Medicine Institute Board (ASMI); Planning Committee for Southern Medical Association (SMA) webinar “Age and Competency.

Albert W. Pearsall: 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.


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Dr. Angus McBryde began his 15 months of interim chair as of June 1, 2015. The 2015 - 2016 academic year was eventful in its recovery from critical faculty loss due to the death of Dr. Fred Meyer on November 14, 2014, the retirement of Dr. Jorge Alonso and the departure of Dr. Sudhakar Madanagopal. Dr. Ginger Bryant, Huntsville, Alabama, bridged the Orthopaedic trauma coverage gap during the summer and the department remains very grateful. Dr. Jeff Brewer was recruited as the Director of Orthopaedic Trauma. Dr. Pat Daughtery joined Orthopaedics as a non-operative orthopaedist. Dr.
Frank Pettyjohn was also brought in for Orthopaedic patient triage. Dr. Chris Jones, a sports medicine fellow from the Andrews Sports Medicine and Orthopaedic Center in Birmingham, has begun utilizing an operating room at Children’s and Women’s Hospital for arthroscopic surgery and has been very well received. Dr. Jones is subspecialty trained in hip arthroscopy and is the most recent faculty addition. Dr. Jared Burkett (hand surgeon) and Dr. Jim West (Orthopaedic spine surgeon) split their time between the departmental clinic office and their private practices. These additional hiring’s complement our remaining fulltime faculty: Drs. Angus McBryde, Prasit Nimityongskul, Albert Pearsall, Mark Perry, and Zhiqing Xing.

Dr. Marymont, the new Dean of the College of Medicine and Vice President for Medical Affairs, and Dr. Anthony Martino, chair of the search committee for the Orthopaedic Chairman position, have been working very hard to interview potential candidates for a permanent Chairman for the Orthopaedic Department. In the meantime, Dr. Angus McBryde continues to do an outstanding job keeping our department in good order.

For the first time in the 40+ year history of this Orthopaedic Department, we have an official journal of the department named the USA Orthopaedic Journal. This is a result of the tireless effort by Dr. Angus McBryde. Hopefully, the department will carry on this milestone effort of Dr. McBryde and make this Journal at least an annual publication or better in the years to come.

Our three graduating residents all accepted fellowship positions which started shortly after graduation: Dr. W. Ryan Mitchell, Sports Medicine fellowship at Sports Orthopaedics and Rehabilitation (SOAR) Medicine in San Francisco; Dr. Brandon Taylor, Foot and Ankle fellowship at Campbell Clinic in Germantown, Tennessee; and Dr. J. Grant Zarzour, Adult Reconstruction fellowship at Mississippi Sports Medicine & Orthopaedic Center in Jackson, Mississippi.

The department continues its upward trend on certification exams through the American Board of Orthopaedic Surgery. The five year total pass rate for Part I increased to 94% for first time test takers. With one eligible candidate not having taken the exam, the five year total pass rate for the Part II exam has increased to 86% on their first attempt.
2015-2016
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; Elected as faculty Alpha Omega Alpha Honor Medical Society member; 2016 Tristate pathology conference, program coordinator.

Javier A. Laurini: Member, Cancer Committee, College of American 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.


Kelly Roveda: Councilor Beta chapter of Alpha Omega Alpha Medical Honor Society.

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

Three residents completed the residency program this year. Dr. Maria Del Valle Estopinal began a surgical oncology fellowship at the University of Texas, MD Anderson Cancer Center. Dr. Ioannis Ioannidis entered a surgical pathology fellowship at the University of Pennsylvania Hospital and has plans to follow up that fellowship with an additional fellowship in cytopathology at this same location. Dr. Stephen Marbut started a surgical pathology fellowship at the University of Alabama Birmingham. The department successfully recruited three highly accomplished new residents, Dr. Nadia Hameed from University of Baghdad, College of Medicine, Iraq, Dr. Monira Haque, Jawaharlal Nehru Medical College, Wardha, India and Dr. Krutika Patel from Grant Government Medical College, Mumbai, India.

A premier educator and mentor to countless medical students and residents over the course of his career, Dr. Allan Tucker passed away on March 23, 2016 after 12 years of distinguished service as chair of the department. Dr. Tucker had previously served as Pathology Residency Program Director, Director of Anatomic Pathology, and Director of Surgical Pathology as well as earning numerous teaching accolades including red sash awards and being chosen as speaker for the senior medical students’ honors convocation. His local, regional, national, and international activities and accolades are too numerous to list here, but Dr. Tucker’s legacy of mentorship and teaching is truly remarkable. Drs. Elliot Carter and Andrea Kahn have served as Interim Co-Chairs in his absence.

Dr. Elizabeth Manci serves as Director of Pediatric Pathology. Dr. Elliot Carter continues to serve as Director of Microbiology and Laboratory Director for the USA Medical
Center. Dr. Carole Boudreaux serves as Director of Cytopathology, Associate Director of the Residency Program, and Director of the Autopsy Service, and Dr. Kelly Roveda continues to serve as Assistant Dean for Medical Education and Student Affairs. Dr. Javier Laurini serves as Director of Surgical Pathology, Dr. Jacek Polski serves as Director of Hematopathology, Dr. Brett Baskovich as Director of Molecular Pathology, and Dr. Andrea Kahn as Director of Anatomic Pathology and Director of the Residency Program. Dr. Gary Carnahan serves as Laboratory Director for Children and Women’s Hospital, Director of Chemistry and Transfusion Medicine for University of South Alabama Medical Center, and Director of USA Mitchell Cancer Institute’s Clinical Laboratory.

The Anatomic Pathology division of the Pathology Department and the Colorectal division of the Surgery Department have continued their collaborative efforts to ensure the highest level of patient care. Some of these efforts include the following: standardization of the processing of rectal specimens with a mesorectal envelope; implementation of a testing algorithm for microsatellite instability; and the implementation of a bi-weekly multidisciplinary tumor board for colorectal cancers.

A recent addition to the faculty as lecturer is Ms. Pamela Moore, filling the position of Pathology Assistant. Ms. Moore worked previously in the department as a histology technician and has very comprehensive knowledge of anatomic pathology functions.

The residents’ faculty recognition award was presented to Dr. Javier Laurini, and the residents’ staff recognition award to Ms. Debbie Buck. These awards are presented annually to the faculty member and staff member who are felt by the house staff to have been the most instrumental in their education and training during the previous year. Dr. Susan Harley, PGY2 and Chief Resident, received the first prize award for her platform presentation at the Tristate Pathology Conference. Dr. Andrea Kahn and PGY2 resident, Dr. Leonel Maldonado, presented “Immunotactoid Glomerulopathy in a Patient with Hepatitis C Viral Infection” at the Ultrapath XVIII Meeting of the Society of Ultrastructural Pathology (SUP) held in Lisbon, Portugal in July. Dr. Maldonado was presented with the SUP Tucker Trainee Award for this presentation. Dr. Maldonado also represented the Pathology department as guest speaker for the J. Allan Tucker session, where he presented a talk entitled “A great teacher: Joseph Allan Tucker.” Drs. Carter and Kahn continue to collaborate in funded research.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Custodio H, Norton T, Fortwendel J. Growth inhibitory effect of cerivastatin against yeasts


Gifford KA, Li ST, Tancredi DJ, Burke AE, Trimm RF, Mahan JD, Schwartz A, Guillot AP, Guralnick S. Learner self-assessment as a contribution to competency assessment. 2016 Pediatric Academic Societies Meeting; 2016 Apr 30-May 3; Baltimore, MD. Abstract no. 1375.1.


Li ST, Tancredi DJ, Schwartz A, Guillot A, Burke A, Trimm RF, Guralnick S, Mahan JD, Gifford K. Pediatric resident minimum milestone expectations by level of training. 2016 Pediatric Academic Societies Meeting; 2016 Apr 30-May 3; Baltimore, MD. Abstract no. 1375.2.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Bhowmick S, Bilbao N. Invited speaker. Endocrine dysfunction in 18q deletion syndrome. Southern Pediatric Endocrine Society Meeting; 2015 Nov 7; Atlanta, GA.

Estrada B. Invited speaker. Zika virus update. Medical Society of Mobile County Quarterly Meeting; 2016 May 17; Mobile, AL.


Gremse D. Invited speaker. IBD treatments – finding your best path. Crohn’s & Colitis Foundation Alabama Chapter Education Symposium; 2016 Aug 27; Mobile, AL.

Kaulfers AM. Invited speaker. The impact of poor nutrition on the brain. 2nd Annual Diabesity Summit; 2015 Oct 9; Mobile, AL.


Roberson-Trammell, K. Invited speaker. Preventative care: breast and cervical cancer screening, EPSDT screening, and adolescent immunization (T-dap, HPV, Meningococcal). Gulf Coast Regional Care Organization Region E; 2016 Jun 16; Brewton and Monoreville, AL.

Roberson-Trammell, K. Participant in a webinar/conference call. 42 quality measures chosen by Medicaid Quality Assurance Committee. Gulf Coast Regional Care Organization Region E; 2015 Nov 19; Mobile, AL.

Swingle H. Invited speaker. What causes autism? Project TIPP (Team-based Interprofessional Personnel Preparation) Autism Conference; 2016 Jan 30; Mobile, AL.

Trimm, F. Invited speaker. Building holistic review into existing GME program processes: making all steps count. Association of American Medical Colleges 2016 Joint Professional Development Conference; 2016 Mar 4; Salt Lake City, UT.

Vidal R. Invited speaker. What the pediatrician needs to know about pediatric sedation. Alabama Chapter of the American Academy of Pediatrics 2016 Spring Meeting & Pediatric Update; 2016 May 1; Point Clear, AL.

Whitehurst RM Jr. Invited speaker. Neonatal abstinence syndrome—an update on an emerging protocol. 25th University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 15; Daphne, AL.

Wilson F. Invited speaker. Take control of your future: sickle cell disease and your journey through transition. Columbus Georgia Metro Black Nurses Association; 2015 Oct 6; Columbus, GA.

Wilson F. Invited speaker. Another therapeutic option for patients with chronic transfusional iron overload. Hughes Spalding Children’s Hospital; 2015 Nov 5; Atlanta, GA.

Wilson F. Invited speaker. Newborn screening. Sickle Cell Educator/Counselor Certification Program, Sickle Cell Disease Association of America-Mobile Chapter; 2015 Nov 17; Mobile, AL.


Wilson F. Invited speaker. Newborn screening. Sickle Cell Educator/Counselor Certification Program, Sickle Cell Disease Association of America-Mobile Chapter; 2016 Apr 6; Mobile, AL.

Wilson F. Invited speaker. Take control of your future: sickle cell disease and your journey through transition. Houston Sickle Cell Symposium; 2016 Apr 23; Houston, TX.

Wilson F. Invited speaker. Managing patients with sickle cell disease and the impact of chronic iron overload. Georgia Cancer Center; 2016 Jun 30; Atlanta, GA.

Wilson F. Invited speaker. Update on the management of iron overload in sickle cell
V. NATIONAL PROFESSIONAL RECOGNITION

**Stephanie Anderson:** Member, American Academy of Pediatrics, Council on Children with Disabilities & Section on Developmental and Behavioral Pediatrics; Member, Society for Developmental and Behavioral Pediatrics, Advocacy Committee; Member, Human Rights Committee, Volunteers of America, Southeast.

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

**Ramachandra Bhat:** Member, American Academy of Pediatrics; Member, Southern Society of Pediatric Research. Reviewer: *Pediatrics*.

**Samar Bhowmick:** Fellow of the American Academy of Pediatrics; Member, American Association of Clinical Endocrinologists; Fellow of the American College of Endocrinology; Member, American Diabetes Association; Member, The Endocrine Society; Member, The Lawson Wilkins Pediatric Endocrine Society. Reviewer: *Pediatrics, Clinical Pediatrics, Journal of Southern Medical Association, Asian Journal of Andrology*.

**Nordie Bilbao:** Member, American Academy of Pediatrics; Member, The Endocrine Society; Member, Pediatric Endocrine Society.

**Kari Bradham:** Member, Educational Scholars Program, Academic Pediatric Association; Member, American Academy of Pediatrics.

**Rosina Connelly:** Fellow of the American Academy of Pediatrics; Member, Academic Pediatric Association Health Literacy SIG; Member Representative, South Alabama, Health Literacy Partnership of Alabama. Reviewer: *American Academy of Pediatrics, Medical Education Online, Children and Youth Services Review*.

**LaDonna Crews:** Member, Academy of Breastfeeding Medicine; Member, Academic Pediatric Association; Physician Liaison for Adolescent Health for the Alabama Department of Public Health; Member, Alabama Breastfeeding Coalition; Fellow of the American Academy of Pediatrics; Board, American Academy of Pediatrics, Alabama Chapter; Member, American Medical Association; Member, Medical Association of the State of Alabama; Member, Mobile Pediatric Society; Member, Regional Perinatal Advisory Committee; Member, Society for Adolescent Medicine.

**Karen Crissinger:** Member, American Gastroenterological Association; Member, North American Society for Pediatric Gastroenterology, Hepatology, & Nutrition; Member,
Society for Pediatric Research; Member, Southern Society for Pediatric Research. Reviewer: *Journal of Pediatric Gastroenterology & Nutrition.*

**Haidee Custodio:** Member, American Academy of Pediatrics; Member, Infectious Diseases Society of America; Member, Pediatric Infectious Diseases Society. Reviewer: *Clinical Pediatrics; MedEd Portal; Abstract Reviewer for Pediatric Academics Societies Meeting 2016; Abstract Reviewer for 2016 AAMC Medical Education Meeting; Oral and Poster Presentation Reviewer for AAMC 2016 SGEA Meeting.*

**Benjamin Estrada:** Member, Alpha Omega Alpha Medical Honor Society; Fellow of the American Academy of Pediatrics (AAP); Institutional Representative, COMSEP task force on curriculum development; Member, Council on Medical Student Education in Pediatrics (COMSEP); Member, Gold Humanism Honor Society; Member, Infectious Diseases Society of America (IDSA); Fellow of the Pediatric Infectious Diseases Society (PIDS); Member, Society for Healthcare Epidemiology of America (SHEA); Institutional Representative, Southern Society for Pediatric Research (SSPR); Member, Team-Based Learning Collaborative. Reviewer: *Infectious Diseases in Clinical Practice.*

**Fabien Eyal:** Member, Alabama Committee on the Fetus and Newborn; Member, Alabama Society of Neonatology; Member, Alabama Omega Alpha Medical Honor Society; Member, American Academy of Pediatrics, Member, American Medical Association; Clinical Champion, Coordinator of Neonatal Monitoring, Office of Rural Health; Member, Southern Society for Pediatric Research; Member, Southeastern Association of Neonatologists; Member, Vermont Oxford National Data Base.

**Sheryl Falkos:** Member, Advisory Board, Penelope House Domestic Violence Shelter; Member, American Academy of Pediatrics; Member, Society of Critical Care Medicine.

**Cristina Gavrilita:** Member, Alabama Baby Coalition; Fellow of the American Academy of Pediatrics; Member, Board of Directors, Ronald McDonald House; Member, Society of Critical Care Medicine.

**Sophia Goslings:** Member American Academy of Pediatrics, AAP Section on Hospital Medicine; Member, Association of Pediatric Program Directors; Member, Mobile Pediatric Society; Workshop Co-Leader: Beyond Tell Me About Yourself – Using Multiple Mini Interviews to Overcome Interview and Selection Challenges; ACGME Annual Education Conference; Workshop Co-Leader: Changing Resident Assessment Experiences Implementing the Pediatric Milestones Assessment Collaborative, 2016 Association of Pediatric Program Directors Spring Meeting.

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

Rashmi Gulati: Member, American Academy of Pediatrics; Member, American Medical Association; Member, Indian Academy of Pediatrics; Member, Vermont Oxford National Data Base.

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

Om Jha: Member, American Academy of Pediatrics.

Anne-Marie Kaulfers: Fellow of the American Academy of Pediatrics; Member, American Diabetes Association; Member, The Endocrine Society; Member, The Medical Association of the State of Alabama; Member, The Lawson Wilkins Pediatric Endocrine Society; Board, Southeastern Diabetes Education Services (SDES). Reviewer: Clinical Pediatrics.

Jose Martinez: Fellow of the American Academy of Pediatrics; Fellow of the American College of Medical Genetics; Fellow of the American Society of Human Genetics.


Brandy Merritt: Member, American Academy of Pediatrics; Member, Mobile Pediatric Society; Member, Society of Critical Care Medicine.

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

Anand Ponnambalam: Fellow of the American Academy of Pediatrics (FAAP); Member, American College of Gastroenterology (ACG); Member, American Gastroenterological Association (AGA); Member, North American Society for Pediatric Gastroenterology Hepatology and Nutrition (NASPGHAN). Reviewer: Journal of Pediatric Gastroenterology Hepatology and Nutrition.

Daniel Preud’Homme:
Member, Quality Improvement Coach and Faculty, Alabama Child Health Initiative Alliance; Fellow of the American Academy of Pediatrics; Member, American Heart Association; Executive Board, Bay Area Food Bank; Member, Cardiovascular Disease in the Young Council; Member, Council on Children with Disabilities; Member, Council on School Health; Member, National Lipid Association; Member, Nutrition/Metabolic Council. Reviewer: Clinical Pediatrics.

Renee Roca-Garcia: Member, American Academy of Pediatrics, Pediatrics Section on Hospital Medicine; Member, College of Surgeons and Physicians of Guatemala; Member, Mobile Pediatric Society.

Omar Sanchez: Member, American Academy of Pediatrics, AAP Section on Critical Care; Member, College of Surgeons and Physicians of Guatemala; Member, Mobile Medical Society; Member, Pediatric Society of Critical Care Medicine; Member, Society of Critical Care Medicine.

Hafeez Siddiqui: Member, American Academy of Pediatrics; Member, American Society of Hematology; Member, American Society of Pediatric Hematology and Oncology; Member, Children’s Oncology Group. Reviewer: World Journal of Hematology; Ophthalmic Plastic and Reconstructive Surgery.

Hanes Swingle: Member, American Academy of Pediatrics; Member, Alabama Chapter of American Academy of Pediatrics; Member, Executive Committee, Alabama Interagency Autism Coordinating Council (AIACC); Chair, Diagnostic Clinics Workgroup of the AIACC Standards of Practice Committee; Member, American Public Health Association; Board, Autism Society of Alabama; Board, Glenwood Autism and Behavioral Health Center; Member, Governor’s Working Group on Children with Autism; Advisory Board, Learning Tree, Inc.; Member, Society for Developmental Behavioral Pediatrics. Reviewer: Maternal and Child Health Journal; Journal of Developmental Behavioral Pediatrics.

Katrina Roberson-Trammell: Fellow of the American Academy of Pediatrics; Board, Gulf Regional Early Childhood Services (GRECS); Member, Medicaid Quality
Assurance Committee; Member, Medical Association of State of Alabama; Member, Mobile Bay Area Medical Association; Member, Mobile Medical Society; Member, Mobile Pediatric Society; Member, Pediatric and Adult Workgroup, Regional Care Organization-Region E.

Franklin Trimm:
Member, Academic Pediatric Association; Workshop Co-Leader: Beyond Tell Me About Yourself – Using Multiple Mini Interviews to Overcome Interview and Selection Challenges, Accreditation Council for Graduate Medical Education (ACGME) Conference; Member, Alpha Omega Alpha; Fellow of the American Academy of Pediatrics; Member, American Board of Pediatrics Education and Training Committee; Co-Editor, Teaching, Promoting and Assessing Professionalism Across the Continuum: A Medical Educator’s Guide, American Board of Pediatrics and Association of Pediatric Program Directors; Member, American Pediatric Society; Member, Association of Combined Med/Peds Program Directors; President, Association of Pediatric Program Directors (APPD); Platform Presenter: Pediatric Resident Minimum Milestone Expectations by Level of Training, 2016 Association of Pediatric Program Directors Spring Meeting; Workshop Co-Leader: Changing Resident Assessment Experiences Implementing the Pediatric Milestones Assessment Collaborative, 2016 Association of Pediatric Program Directors (APPD) Spring Meeting; Member, Early Childhood Endowment Fund Advisory Panel, Community Foundation South Alabama; Board, Secretary-Treasurer, Federation of Pediatric Organizations (FOPO); Member, Gold Humanism Honor Society; Member, Society for Developmental and Behavioral Pediatrics; Advisory Board, South Alabama CARES; Member, Southern Society for Pediatric Research. Reviewer: Journal of Graduate Medical Education; Academic Medicine; Journal of Developmental and Behavioral Pediatrics, Pediatrics.

Rosa Vidal: Member, American Academy of Pediatrics; Member, Mobile Pediatric Society; Member, Society of Critical Care Medicine.

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

Felicia Wilson: Member, Prevention, Early Detection Subcommittee, Alabama Comprehensive Cancer Control Coalition; Fellow of the American Academy of Pediatrics; Member, American Society of Hematology; Board Member, Camp Rap-A-Hope; Member, Medical Association of the State of Alabama; President, Mobile Pediatric Society; Speaker’s Bureau, Novartis Pharmaceuticals Corporation; Laboratory Medical Director, Sickle Cell Disease Association of America, Mobile Chapter; Member, Southern Society for Pediatric Research; Member, State of Alabama Hemophilia Advisory Committee; Co-Chair, Hemoglobinopathy Subcommittee, State of Alabama Newborn Screening Advisory Committee.
Michael Zayek: Member, Alabama Society of Neonatology; Member, American Academy of Pediatrics (AAP); Member, Southeastern Association of Neonatologists, Inc.; Member, Southern Society for Pediatric Research (SSPR).

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pediatrics was delighted to welcome a new faculty member. Dr. Curtis Turner joined the University of South Alabama College of Medicine as Professor of Pediatrics and Medical Director of the primary care division. Prior to joining USA, Dr. Turner served as Professor and Associate Dean of Faculty Development and Affairs at Texas Tech University Health Sciences Center in Amarillo, Texas. He earned his undergraduate degree from the University of South Carolina in Columbia, S.C., and his medical degree from the Medical University of South Carolina in Charleston, S.C. Following residency training at Louisiana State University in New Orleans, he completed a fellowship in Pediatric Hematology, Oncology and Bone Marrow Transplantation at the University of Florida in Gainesville, Fla.

Drs. Lynn Batten, Benjamin Estrada, Sophia Goslings, Anne-Marie Kaulfers, Jessica Kirk, Jose Martinez, Melody Petty, Daniel Preud’Homme, Franklin Trimm, and Felicia Wilson were recognized by the USACOM Class of 2016 as Distinguished Faculty Red Sash Awardees 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 2016 was Rebekah A. Frazier. Eleven of the graduating medical students in the USACOM Class of 2016 chose residencies in Pediatrics or combined Medicine-Pediatrics. Of the pediatric housestaff completing residency training in 2016, four 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. Twelve new first year residents entered the pediatric residency program, and two first-year residents entered the combined Medicine-Pediatrics Residency Program. Dr. James Van Buren completed his duties as Pediatric Chief Resident in 2016, and Dr. Maha Al-Ghafry took over duties as the Pediatric Chief Resident for the 2016-2017 academic year.

The scholarly activities by the faculty of the Department of Pediatrics this year included 12 original articles and 29 published abstracts. Departmental faculty were active in mentoring pediatric residents in clinical research. There were 19 abstracts presented at regional and national meetings by pediatric residents who were the first authors with senior authorship by members of the pediatric faculty.

Quality improvement efforts to advance patient care are spearheaded by Dr. Daniel Preud’Homme in collaboration with the American Board of Pediatrics and Nemours in pilot testing of the MOC Quality Improvement Tracker tool. Ten faculty members in the USA Department of Pediatrics completed 12 quality improvement modules in
Medication Safety and Asthma Care. The pilot project extracted de-identified data to generate run charts, electronically transmitted them to participating faculty for review, and electronically captured attestation by the faculty for completion of tasks. Participating faculty were awarded MOC credit for their participation. Drs. Crews and Trammel along with Natalie Fox are heading an effort to gain NCQA recognition of the Department of Pediatrics primary care clinics as a Patient Centered Medical Home.

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. The project has completed pilot testing and has been introduced at several national pediatric meetings. A workshop for residency and fellowship program directors on implementing the project tool to enhance program improvement and provide Maintenance of Certification credit for participating faculty was presented at the recent APPD meeting. Drs. Sophia Goslings and Franklin Trimm have also participated in a national collaborative project sponsored by the American Board of Pediatrics, the National Board of Medical Examiners, and the Association of Pediatric Program Directors, the Pediatric Milestones Assessment Collaborative (PMAC). In Undergraduate Medical Education, Dr. Benjamin Estrada leads an effort to incorporate the SBAR (Situation, Background, Assessment, Response) communication tool into the curriculum in collaboration with the AAMC. Dr. Estrada is also collaborating with MedU in the development of electronic teaching tools to be utilized in pediatric medical student education.

Major goals for the coming year include: 1) achieving Patient Centered Medical Home recognition for our general pediatric clinics, 2) expanding Quality Improvement opportunities for faculty and residents through achieving portfolio status from the American Board of Pediatrics, and 3) faculty development in medical education through the Te4Q (Teaching for Quality) project.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Pastukh V, Roberts JT, Clark DW, Bardwell GC, Patel M, Al-Mehdi AB, Borchert GM, Gillespie MN. An oxidative DNA “damage” and repair mechanism localized in the VEGF promoter is important for hypoxia-induced VEGF mRNA expression. Am J Physiol Lung Cell Mol Physiol. 2015 Dec 1;309(11):L1367-75.


II. PUBLISHED ABSTRACTS


Simmons JD, Pastukh VM, Capley G, Muscat CA, Muscat DC, Marshall ML, Brevard SB, Gillespie MN. Potential contribution of mitochondrial (mt) DNA Damage Associated Molecular Patterns (DAMPs) in transfusion products to development of the Acute Respiratory Distress Syndrome (ARDS) after multiple transfusions. 75th Annual Meeting of the American Association for the Surgery of Trauma & Clinical Congress of Acute Care Surgery. 2016 Sep 14-17; Waikoloa, HI. Abstract no. 16.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Bauer N. Invited speaker. Careers in science. Spanish Fort Elementary School; 2016 Mar 10; Spanish Fort, AL.


Gillespie MN. Invited speaker. Oxidant-DNA signaling in the life and death of cells: a tale of two genomes. Augusta University, Medical College of Georgia; 2016 Feb 19; Augusta, GA.

Gillespie MN. Invited speaker. Oxidant-DNA signaling in the life and death of cells: a tale of two genomes. 2016 Rhode Island NIH IDeA Symposium; 2016 Mar 17; Providence, RI.


Langley R. Invited speaker. Integrated clinico-metabolomic sepsis prediction models. ISF Stephen F. Lowry Colloquium on Precision Medicine in Sepsis; 2015 Oct 25; Toronto, Canada.

Langley R. Invited speaker. Integrative omics analysis of sepsis: biomarkers for improved patient management. University of Alabama at Birmingham Department of
Anesthesiology and Perioperative Medicine Research Seminar Series; 2016 Jan 19; Birmingham, AL.

Langley RJ. Invited speaker. Integrative -omics analysis of sepsis: biomarkers for improved patient management. 23rd International Molecular Med Tri-Con; 2016 Mar 8; San Francisco, CA.

Rich T. Invited speaker. Hyperspectral imaging approaches to measure localized cAMP signals. Gordon Research Conference on Phosphorylation & G-Protein Mediated Signaling Networks; 2016 Jun 6; Biddeford, ME.

Rich T. Invited speaker. Innovations in hyperspectral imaging approaches allow simultaneous measurement of the kinetics and spatial spread of cyclic nucleotide signals. 4th Global Experts Meeting on Neuropharmacology; 2016 Sep 15; San Antonio, TX.


V. NATIONAL PROFESSIONAL RECOGNITION


Michael Chinkers: Study sections for grant review, American Heart Association; Member, Molecular Signaling 1 study section.

Eugene A. Cioffi: Reviewer and Co-Editor, Current Topics in Medicinal Chemistry; Editorial reviewer, John Wiley & Sons, New York, NY; Reviewer: Amer. J. Physiology –

Mark N. Gillespie: Associate Editor, American Journal of Physiology, Lung Cell and Molecular Physiology; Editorial board, American Journal of Respiratory Cell and Molecular Biology; Member, Program, Leadership, and Long Range Planning Committees, American Thoracic Society; Member, NIH protocol review panel, Prevention and Early Treatment of Acute Lung Injury; Ad hoc member, NIH study sections: Special Emphasis Panel, RIBT; 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.


Ivan F. McMurtry: Editor, American Physiology Society’s online journal Comprehensive Physiology: Topic on Pulmonary Circulation and Non-Respiratory Functions; Editorial board member, AJP Lung, Pulmonary Circulation; Manuscript reviewer: AJP Lung, Cardiovasc Res, Circulation, Comprehensive Physiol, Hypertension, Pulmonary Circ.

Lyudmila I. Rachek: Ad hoc grant reviewer, National Science Foundation, Diabetes United Kingdom; Editorial board Member: Open Endocrinology Journal, New Journal of Science. Reviewer: Cell Biology and Toxicology, Biochimica et Biophysica acta, International journal of Medical Sciences, Diabetology & Metabolic Syndrome, British Journal of Nutrition, Nutrients; Member: American Diabetes Association, American Heart Association


Victor Solodushko: Reviewer: BMC Research Notes, BMC Microbiology, Molecular Pharmaceutics.

Chairman, Pulmonary Circulation Assembly, American Thoracic Society, Awards Committee.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Department faculty continued to diversify the Department research portfolio with grant submissions, new patent applications by Dr. Solodushko and by Dr. Rich, letters of intent for GoMRI and DoD funding initiatives, and competing renewal application for one NIH-funded project. Dr. Ayling and Dr. Bailey continue their research on expanding the use of natural folates. These efforts in patenting, consulting, licensing and marketing 5-methyltetrahydrofolate (Metafolin), have resulted in continued revenues from royalties.

Dr. Langley has had an impressive first year. He met with colleagues across USA’s campuses and reached out to fellow researchers at other institutions and either developed or has taken part in several multi-disciplinary research collaborations including: a Genomics Initiative involving USA faculty from Medicine, Biology, and Computer and Information Sciences; a Trauma Research Initiative between USA Surgery/Trauma faculty and basic sciences resulting in a funded K08 Award to Dr. Jon Simmons; a Clinical and Translational Sciences Initiative, a collaborative grant with UAB and 9 other institutions whose mission is to enhance translational research across the region. To further his outreach, Dr. Langley plans to develop collaborations within the Mitchell Cancer Institute where he can extend the integrative omics projects he has developed in sepsis to find if they are translatable to various cancers with the hope that the integrative approach can identify novel mechanisms that have not previously been considered.

Pharmacology faculty have dedicated countless hours to teaching as well as to directing modules and courses. Dr. Al-Mehdi updated and co-directed the Integrated Case Studies course for 2nd year medical students, developed new cases for the simulation labs of several modules, redesigned the Clinical Pharmacology 4th year elective, and, as Module Director, revamped the syllabus for Fundamentals of Human Health. Dr. Chinkers served as Course Director for Fundamentals of Basic Medical Science I & II. Dr. Ayling continues her efforts to optimize the relationship between the MS program in Toxicology and the PhD program in Basic Medical Sciences, so that both programs benefit from the existence of the other. Drs. Al-Mehdi, Bauer, Cioffi, Langley, McMurtry, Rich, and Wagner served on advisory, thesis, and dissertation committees. Drs. Bauer, Cioffi, Gillespie, Rachek, and Rich mentored undergraduate students and medical students in the Summer Medical Student Research and UCUR programs.

Dr. Natalie Bauer rolled out a new campus-wide Faculty Mentoring Program, enrolling 20 new faculty matched with 20 experienced mentors. She organized mentor training sessions and mentor/mentee roundtables, co-authored and presented an abstract on the first year program at the Conference on Teaching and Learning on campus and later prepared a manuscript. In preparation for the 2017 LCME site visit, Dr. Bauer participated in the Curriculum Committee Education Workshop for Module Directors focusing on developing learning objectives for courses in order to meet the LCME requirements for self-directed studies.
Faculty have taken on many important leadership roles to serve within the University, reviewed manuscripts for numerous major publishers, and have more been involved in community outreach. Dr. Gillespie led the USA team effort to serve as one of UAB’s partner institutions on recently-funded CTSA award and also served on the Search Committee for the Dean, College of Medicine and VP for Medical Affairs. Dr. Ayling has continued her ongoing efforts to actively pursue collaborations with charitable organizations in developing countries to educate women in order to improve nutrition and decrease birth defects.

This year we plan to continue to expand active learning modalities and use of human simulators in the professional curriculum, continue expansion of the Department funding portfolio into SBIR/STTR and Pharma grants. We hope to contribute to the development of new P50 or multi-project DoD grant for a Trauma Research Center and identify ways for significant inter-departmental collaboration and enhance translational/clinical research consistent with College and Department interests. Faculty will continue to serve on the CCTS Bioinformatics consortium. This includes working with Dr. Kim Littlefield on the Informatics for Integrating Biology and the Bedside (i2B2) program, an exciting project that that will build informatics for clinical data and samples for research. Drs. Ayling and Bailey plan to develop and patent novel applications of natural folates, and to continue to investigate and develop commercial relations and to pursue research collaborations with Government and Industry to expedite the transfer of their findings for the benefit of humans world-wide.
2015-2016
Summary of Scholarly Activities
Department of Physiology & Cell Biology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Sayner SL. Lipopolysaccharide and isoproterenol alter sodium bicarbonate cotransporter phosphorylation in pulmonary microvascular endothelial cells. FASEB J. 2016;30:980.5.


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Stevens T. Invited speaker. Role of microtubules in chronic EC barrier dysfunction in *P. aeruginosa*-infected pulmonary endothelium. Experimental Biology; 2016 Apr 6; San Diego, CA.

Weber DS. Invited speaker. Changes in endothelial Ca\textsuperscript{2+} signaling underlying vascular dysfunction and remodeling during restenosis. Center for Cardiovascular and Respiratory Sciences, University of West Virginia; 2016 Mar 24; Morgantown, WV.


Zha XM. Invited speaker. Acid signaling and neuron function. Department of Neuro-Pharmacology, Southern China University; 2016 May 9; Guangzhou, China.

V. NATIONAL PROFESSIONAL RECOGNITION

Diego F. Alvarez: Program Committee Member, American Thoracic Society – Pulmonary Circulation Assembly, American Physiological Society – Respiratory Section; Editorial Board, Pulmonary Circulation and Frontiers in Respiratory Physiology.


Mike Lin: Reviewer, American Journal of Physiology Heart and Circulation, Anesthesiology.


Troy Stevens: Session Chair, Microtubules in lung disease and recovery, Experimental Biology 2016; Chair, American Thoracic Society Pulmonary Circulation Assembly 2016. Member, American Thoracic Society Board of Directors; Editorial Board Member, American Journal of Physiology Lung Cellular and Molecular Physiology, Pulmonary Circulation.

Mark S. Taylor: Co-organizer, Smooth Muscle Underground Symposium; Councilor, Gulf Coast Physiological Society;


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The department of Physiology & Cell Biology continually strives to contribute to the College of Medicine’s mission of research, teaching and service. The faculty actively submit and receive grants at a nationally competitive level. Dr. Alexeyev received a Department of Defense Research Grant to study mouse models of mitochondrial disease.
Also, Dr. Alvarez has received his first independent R01 grant focusing on Caspase-1, microvascular endothelium and infection.

The department faculty continue to contribute to medical education. Several faculty members serve as module/course directors, lecturers, facilitators of active learning sessions and mentors. The faculty significantly contributed to the Cardiovascular and Urinary modules for M1 as well as Respiratory, Digestive, Endocrine/Reproductive, Musculoskeletal and Neuroscience/Behavior modules for M2. Many of the faculty served as mentors for the Medical Student Summer Research program.

The faculty also made important contributions to the Basic Medical Sciences Graduate Program. Dr. Townsley served as Course Director for IDL 640 Biostatistics & Experimental Design and IDL 641 Effective Scientific Writing, respectively. Drs. Stevens, Alvarez and Sayner were course directors for IDL 630 Lung Biology. Also, Drs. Alexeyev, Lin, Taylor, Weber and Zha taught extensively in various graduate courses. Dr. Mark Taylor’s graduate student Joshua Waldrup earned his doctoral degree this year.

We also continue to add innovative new programs. Dr. Alvarez has built a cell free organ scaffold system which has become active this year. This lab will allow the faculty to examine endothelial cell specification, lung biomechanics and progenitor cell efficacy in bioengineering organs for transplantation. Dr. Mike Lin has set up an electrophysiological system to study ion channel activity. This system can be custom-fitted for hyperspectral capability for simultaneous channel activity and imaging recordings.

The department of Physiology & Cell Biology has a new “Chalk Talk” series. This monthly research in progress seminar allows the faculty to collaborate and problem solve research ideas. The department has continued to be productive in scholarly achievements. The faculty contributed twenty articles to peer-reviewed journals as well as seventeen abstracts. Many of the faculty have taken on extensive university responsibilities. For example, Dr. Mark Taylor is the director of the Basic Medical Sciences Graduate Program and Dr. Diego Alvarez is chair of the Institutional Animal Care and Use Committee.

Several faculty delivered lectures to professional societies and international meetings this year. Dr. Taylor was Co-organizer for the Smooth Muscle Underground Symposium in San Diego, CA. Dr. Alvarez participated in the 2015 Translational Health Disparities Course at the National Institutes of Health in Bethesda, MD. Dr. Zha gave a seminar entitled “Acid signaling and neuron function” at the Southern China University, Guangzhou, China in May.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


Boone S, Schneider M, Kuhlman S, Thompson K, Langhinrichsen-Rohling J, Misra T. Protection against suicidal proneness: parent versus peer attachment. 49th Annual Conference of the American Association of Suicidology; 2016 Mar 30-Apr 2; Chicago, IL.

Boone L, LePage J, Siddiqui S, Hart J. Diagnosing schizophrenia when delusions are influenced by cultural norms: a case study involving voodoo. Alabama Psychiatric Physicians Association Spring Conference; 2016 Apr 8-10; Destin, FL. Abstract no. 16-1-05.


Granato S, Kuhlman S, McDermott R, Smith PN. The role of masculine gender role adherence in help-seeking for suicide through formal and informal sources. 49th Annual
Conference of the American Association of Suicidology; 2016 Mar 30-Apr 2; Chicago, IL.

Griffeth B, Brooks WB, Foster A. A psychiatric specific EPA for evaluation of the prospective psychiatric resident: towards a national standard. Association of Directors of Medical Student Education in Psychiatry 42nd Annual Meeting; 2016 Jun 16-18; Excelsior Springs, MO.

Hamilton M, Abraham J, Brooks WB. Refractory depression: never give up. Alabama Psychiatric Physicians Association Spring Conference; 2016 Apr 8-10; Destin, FL. Abstract no. 16-1-06.


Jones Z, Stefurak JR. Development and implementation evaluation of a positive masculinity group intervention for male juveniles. 124th Annual Convention of the American Psychological Association; 2016 Aug 4-7; Denver, CO. Abstract no. F-16.

Kuhlman S, Boone S, Granato S, Smith PN. Social-demographic risk factors & suicide ideation: a mediational analysis of the interpersonal theory of suicide. 49th Annual Conference of the American Association of Suicidology; 2016 Mar 30-Apr 2; Chicago, IL.

Kuhlman STW, Smith PN. Unmet interpersonal needs are associated with attitudes toward intimate partner violence. 124th Annual Convention of the American Psychological Association; 2016 Aug 4-7; Denver, CO. Abstract no. F-20.

Kuhlman S, Byas J, Smith PN. Suicide method lethality and suicide attempt status: their function in the development of fearlessness of death. 49th Annual Conference of the American Association of Suicidology; 2016 Mar 30-Apr 2; Chicago, IL.


Savitz A, Melkote R, Riley R, McQuarrie K, Williamson D, Banderas B. Usefulness of antipsychotic blood levels in clinician decision-making: a cross-over study using clinical vignettes of patients with schizophrenia. Society of Biological Psychiatry 71st Annual Meeting; 2016 May 12-14; Atlanta, GA. Abstract no. 181.


Sinclair S, Hamilton M, Buchanan K, Sinclair A, Brooks WB. Dissociative disorders: a case report highlighting the subtle differences in these diagnoses. Alabama Psychiatric Physicians Association Spring Conference; 2016 Apr 8-10; Destin, FL. Abstract no. 16-1-10.

Smith PN, Kuhlman S, Granato S. Adherence to masculine gender norms promotes greater risk for suicide in men via the capability for suicide: a study of psychiatric inpatients. 49th Annual Conference of the American Association of Suicidology; 2016 Mar 30-Apr 2; Chicago, IL.


Thompson K, Langhinrichsen-Rohling J. Schemas as a mediator for the relationship between attachment and suicidal proneness and ideation. 17th Annual University of South Alabama Committee on Undergraduate Research Symposium 2015; 2015 Oct 15; Mobile, AL.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Engeriser JL. Invited speaker. Health decision making and innumeracy: how misunderstanding math can kill us and our patients. Alabama Psychiatric Physicians Association 2015 Fall Conference; 2015 Oct 17; Point Clear, AL.

Franks RD. Invited speaker. Hijacking the brain: understanding addiction. Mobile Infirmary Grand Rounds; 2016 Apr 19; Mobile, AL.

Friend J, Langhinrichsen-Rohling J. Invited speakers. Focused ACT and the MBHCP-AL. University of South Alabama 3rd Year Psychiatry Residency Program; 2016 Mar 10; Mobile, AL.


Langhinrichsen-Rohling J. Invited speaker. Academic and community partner reports. Deepwater Horizon Research Consortium Meeting; 2016 Mar 8; Mobile, AL.


Langhinrichsen-Rohling J. Invited speaker. Intersections between psychology and environmental science. 3rd Annual Emerging Scholars Teacher’s Workshop; 2016 Mar 20; Mobile, AL.

Langhinrichsen-Rohling J. Invited speaker. Ensuring family resiliency. American Red Cross Small Business Resiliency Workshop; 2016 Mar 14; Mobile, AL.

resilience. 2016 Gulf of Mexico Oil Spill and Ecosystem Science Conference; 2016 Feb 3; Tampa, FL.


Smith PN, Kuhlman STW. Invited speakers. Adherence to dominant masculine norms promotes greater risk for suicide in U.S. suicidal men. 124th Annual Convention of the American Psychological Association; 2016 Aug 4; Denver, CO.

Stefurak JR. Invited speaker. Ethical issues in supervising counselors treating trauma. Ethical Dilemmas: Right, Wrong, or it Depends; 2016 Mar 11; Mobile, AL.


Stefurak JR, Fields K. Invited speakers. Getting the most out of psychological assessment reports in child welfare. Foster Family-based Treatment Association Alabama Chapter Fall Conference; 2015 Nov 13; Orange Beach, AL.

Stefurak JR, Kantra L, Wright C. Invited speakers. Trauma informed care & trauma informed supervision. Foster Family-based Treatment Association Alabama Fall Conference; 2015 Nov 13; Orange Beach, AL.

Wilkins K, Blazek M, Brooks WB, Lehmann S, Liptzin B, Wagenaar D. Invited speakers. Six things every clerkship student should know about geriatric psychiatry (and how to teach them). Association of Directors of Medical Student Education in Psychiatry 42nd Annual Meeting; 2016 Jun 18; Excelsior Springs, MO.

Williamson DJ. Invited speaker. When is memory loss significant? Third Annual University of South Alabama Neuroscience Symposium; 2016 Apr 3; Orange Beach, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS


Brooks, W.B., Engeriser, L., Parker, S., Franks, R., “Increasing the Selection of Psychiatry by Senior Medical Students: Experience of an Academic Community-Based Department of Psychiatry” (In progress).
Engeriser, L., Parker, S., Franks, R., “Closure of Regional State Psychiatric Hospital: Successful Transition to a Community-Based Model,” (In progress).

Ronald Franks, MD. served as president of the Medical Association of Alabama through April of 2015 and is currently serving as Secretary-Treasurer.

Ronald Franks, MD serving as Chair, Governor’s Task to Improve the Health of Alabama, 2015-Present.

The Red Sash Award from the University of South Alabama College of Medicine’s graduating class of 2015 awarded to W. Bogan Brooks, MD, J. Luke Engeriser, MD, James Hart, DO, Praveen Narahari, MD, Sandra Parker, MD, and Miriam Sevilla, 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.

Sandra K. Parker, MD continues to serve on the Retrospective Drug Utilization Review (DUR) Board at Alabama Medicaid Agency.

Sandra K. Parker, MD continues to serve on the Mental Health Regional Care Organization (RCO) Taskforce.

Sandra K. Parker, MD continues to serve on the Benefactor, Mobile Carnival Association and En Pointe Society of Mobile Ballet. She is also serving as President of the Mobile Ballet.

Sandra K. Parker, MD continues to serve on the RCO Quality Assurance Committee at Alabama Medicaid Agency.

Sandra K. Parker, MD continues to serve as an organizational member of the Alabama Rural Health Association since March 2013.

Sandra K. Parker, MD continues to serve as a member of the Alabama Telehealth Workgroup since July 2012.

Sandra K. Parker, MD continues to serve as a member of the Mobile County Domestic Violence Taskforce since 2008. Julie Bernstein, DO has served as a member of this taskforce since June 2013.

Sandra K. Parker, MD continues to serve as a member of the Faculty Advisory Board for the University of South Alabama Student Run Clinic.
The Department is continuing its involvement in district branch activities of the American Psychiatric Association. Sandra K. Parker, MD continues to serve as Immediate Past President of the Alabama Psychiatric Physicians Association (APPA) after serving for two years as the President. J. Luke Engeriser, MD was elected as President Elect of the APPA after serving for two years as Secretary. Mark Haygood, DO was elected as Treasurer of the APPA. Faculty and residents serving on committees of the APPA include Sandra Parker, MD, J. Luke Engeriser, MD, W. Bogan Brooks, MD, J. Clint Moore, DO, David Benavidez, MD, and Paul O’leary, MD.

Christina Talerico, MD continues to serve as the Resident and Fellows Section Representative to the American Medical Association Women Physicians Section Governing Council.

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.

Paul J. O’Leary, MD serves as the Chair of the Young Physician Section of the Medical Association of the State of Alabama.

Mark Haygood, DO continues to serve as the American Psychiatric Association (APA) Area 5 Early Career Psychiatric (ECP) 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. Dr. Haygood is also the APA Assembly Early Career Psychiatrist Chair.

**Departmental Educational Accomplishments:**
Named the Highest Ranked Senior Elective by the Class of 2016
Achieved the highest NBME subject exam scores for junior clerkship students
Achieved maximum years of accreditation for both General Psychiatry Residency and for Child and Adolescent Psychiatry Fellowship

**Clinical Programs:**
Initiated psychiatry service at Student Health, offering psychiatric evaluation and treatment to USA students.

**Chair’s Comments:**
**Education**

The Department continues to have a strong medical student educational program. The fourth year Acting Internship has been acknowledged as the best senior elective for the 2015-2016 academic year. The third year students on Psychiatry have achieved the highest NBME subject exam scores of all the junior clerkships. Further, the graduating students have continued to exceed the national percentage (4.1%) of medical students going into psychiatry by two to three fold over each of the last several years, with ~10% choosing psychiatry in the 2016 match. This success is reflective of the behavioral science instruction offered during the neuroscience block in the first two years, coupled with a junior clerkship routinely rated as the second highest by the students. Clearly, the faculty’s commitment to the students’ education, combined with their mentoring of the students, and their serving as effective role models for the students, largely explains this percentage going into psychiatry.

At the resident level, the child fellowship continues to meet or exceed expectations. It received a full ten year accreditation by the ACGME on its first site visit, the maximum length of time awarded. Two fellows from the first graduating class have just joined the faculty as a measure of the quality of the fellows being recruited. Likewise, the residency has enjoys the maximum length of accreditation by the ACGME, as well.

**Clinical Activity**

Our unique model of an academic department of psychiatry integrated within a regional community mental health center (AltaPointe) has continued to effectively serve the region with comprehensive, state-of-the-art mental health services to all populations. The association with the COM has ensured a wealth of teaching patients for the students, residents, and fellows, while also enhancing the recruitment of high quality clinicians. AltaPointe has recently expanded its reach to include other mental health centers in Alabama, thereby bringing comprehensive mental health services to more communities throughout the state. Also expanded, the psychiatry residents under faculty supervision are now providing psychiatric services to all USA students through the Student Health Center.

**Research**

The department continues to expand its scholarly activities through published manuscripts as well as regional and national presentations. A promising, interdisciplinary research project looking at mitochondrial DNA under conditions of induced stress links the Departments of Pharmacology and Psychology, the College of Nursing, together with the Department of Psychiatry. Dr. Billett is serving as principle investigator of that project.

**Leadership**

Dr. Parker has completed her term as President of the Alabama Psychiatric Physician Association with Dr. Engeriser now serving as President-Elect. The Chair has finished his term as Immediate Past President of the Medical Association of Alabama and is continuing as Chair of the Governor’s Task Force to Improve the Health of Alabama. Psychiatry residents have held national offices in both the AMA and APA.
2015-2016
Summary of Scholarly Activities
Department of Radiology

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Figarola M. Invited speaker. Food signs in radiology. Alpha Omega Alpha Honor Medical Society; 2016 Apr 21; Mobile, AL.

Gupta S. Invited speaker. Unusual findings in some “usual” cancers: a case based approach. Alabama Society of Nuclear Medicine Annual Meeting 2016; 2016 Mar 5; Birmingham, AL.

Lightner J. Invited speaker. Tomosynthesis: then and now. Southern Radiological Conference; 2016 Jan 31; Point Clear, AL.

Pyko M. Invited speaker. Trauma embolization and pulmonary thrombosis. Mobile Infirmary Medical Center Grand Rounds; 2016 Jan 15; Mobile, AL.


Pyko M. Invited speaker. Oncology. Southeast Alabama Medical Center Grand Rounds; 2016 Apr 28; Dothan, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Oganes Ashikyan: Reviewer: Skeletal Radiology.

Maria S. Figarola: Inductee: Alpha Omega Alpha Honor Medical Society.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Due to a successful recruitment year, we are pleased to welcome several new faculty members to the Department of Radiology, including:

1. Dr. Oganes Ashikyan is the newly appointed chief of the musculoskeletal imaging section. Dr. Ashikyan is the head of Quality Improvement for the radiology
department and has been instrumental in developing QI projects for the residency program.

2. Dr. Kevin Bradley joined the department in November 2015 to provide coverage for both body imaging and Interventional Radiology. Dr. Bradley has initiated and supervises a new scholarly project titled “Improving Incoming Resident Techniques in Fluoroscopic Imaging” to better residents’ techniques and patient throughput. He has improved efficiency and productivity in both sections and has helped to grow a broad referral base.

3. Dr. Elizabeth Park joined the department in the mammography section in April 2016. Dr. Park is a lead advisor on the Breast Program Leadership Committee and has become a mentor for the medical students in the radiology interest group.

4. Dr. Osama Abdul-Rahim, a fellowship-trained Interventional Radiologist, joined the faculty in August 2016, and will replace Dr. Pyko as chief of the IR division.

5. Dr. Markus Lammle, a fellowship-trained neuroradiologist, joined the faculty in August 2016, taking over the role of chief of the neuroradiology section. Dr. Lammle will bring imaging expertise to the stroke team as well as provide consultations to the neuroscience physicians.

Dr. Shikha Gupta is the chief of the nuclear medicine section and has excelled in multiple areas including clinical service, resident education, and scholarly activity. She is the co-director for radiology rotation for M4 medical students. Her expertise in PET CT have allowed her to provide higher level quality imaging interpretations to the MCI oncologists and surgeons, making her one of the premier nuclear medicine experts in the region. She has been a leader in the implementation of RADPEER and is the current administrator of the RADPEER program in the radiology department.

Dr. Joel Lightner is the lead advisor on the Breast Program Leadership Committee, an interdisciplinary team instrumental to obtaining national accreditation for USA’s new outpatient Breast Imaging Center. He currently has a pending NIH grant as a co-principal investigator on a project titled “Microwave Radio and Infrared Sensing Based Breast Cancer Detection Device.” Dr. Lightner regularly meets with USA surgeons and oncologists to develop treatment plans for breast cancer patients and has earned regional recognition as an expert in his field.

Dr. Ian Malcolm is implementing a new scholarly project titled “Overcoming Difficulties with PowerScribe” which involves personal communication and instruction to improve prolonged dictations due to misunderstandings.

Dr. Samuel McQuiston provides invaluable service and education both within the radiology department as well as throughout the College of Medicine as the Assistant Dean of GME. He is the Program Director of the department, and his contributions include lectures on faculty development and initiating a quarterly quality conference. He
is currently implementing a performance improvement project titled “Appropriateness in Imaging,” an approach to decreasing inappropriate and overutilization of diagnostic imaging by 30%. Dr. McQuiston’s teaching activity includes teaching medical students on the M4 radiology rotation and maintaining the course on the Sakai site, leading the Te4Q program, updating the inductive learning algorithm for the cardiovascular radiology module, and mentoring eight College of Medicine students pursuing a career in radiology.

Dr. Margaret Mowry plays an important role in resident education in body imaging while also maintaining her breast imaging credentials and providing additional coverage for the mammography section as needed.

Dr. Maximilian Pyko is the current chief of Interventional Radiology. As chief of IR, Dr. Pyko has been instrumental in increasing both efficiency and productivity of the IR section. He has implemented a new clinic based at MCI, and under his expert leadership, the department has increased the number and complexity of procedures offered. Regretfully, Dr. Pyko has resigned from his position at USA, effective September 19, 2016, and will begin an academic appointment at the University of Indiana this fall.

Dr. Todd Standley plays an integral role in the pediatric radiology section. As one of the few subspecialty certified pediatric radiologists in the region, Dr. Standley provides higher level interpretations on all imaging studies performed at USACW. He recently requalified for his Certificate of Additional Qualification in pediatric radiology. Dr. Standley is the pediatric radiology faculty advisor at the monthly Pediatric Tumor Board and Children with Special Needs conferences. He is the director for the pediatric radiology rotation for the M4 medical students. He is also a member of and advisor for the Quality Improvement Committee for the radiology department.

Dr. Brad Steffler, former chief of Interventional Radiology, has transitioned to chief of the body imaging section. Dr. Steffler is participating in an interdepartmental collaboration with the Department of Gastroenterology in providing CT colonography for the Topaz study. Dr. Steffler has taken the lead in participating in a national course and developing and implementing C-RADS, a formal evaluation and reporting system, at our institution. He is now qualified with an ACR certification as a CTC reader with 20 hours of CME in this area. Dr. Steffler has also given introductory lectures in physics.

The radiology residents had an excellent pass rate on the annual ABR Core Exam. All of the senior residents matched in prestigious fellowship programs at institutions such as the University of North Carolina at Chapel Hill, Ochsner Health System in New Orleans, University of California at San Diego, University of Vermont, Medical College of Georgia at Augusta University, and University of Alabama at Birmingham.

Overall, the department’s recruitment efforts have resulted in securing new faculty, all possessing excellent training and credentials. Renewed subspecialty expertise and increased efficiency have improved patient care and strengthened the education and research missions. There have been collaborative efforts between multiple departments.
to establish new protocols. The department has seen an increase in revenue, in large part due to the Interventional Radiology faculty’s abilities to perform specialty and unique services. The IR department has become a premier service line that has developed many new referrals from within and outside of our health system.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


Lee YL, Simmons JD, Gillespie MN, Alvarez DF, Gonzalez RP, Brevard SB, Frotan MA, Schneider AM, Richards WO. Evaluation of microvascular perfusion and


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Dyess, L. Invited speaker. Management of breast disorders by the ob/gyn. The Twenty-Fifth University of South Alabama Obstetrics and Gynecology Conference; 2016 Apr 14; Daphne, AL.

Grimm L. Invited speaker. Preoperative staging of rectal cancer. Piedmont Society of Colon and Rectal Surgeons Meeting; 2016 Aug 5; Amelia Island, FL.

Grimm L. Invited speaker. Minimally invasive therapy for colorectal cancer. Piedmont Society of Colon and Rectal Surgeons Meeting; 2016 Aug 5; Amelia Island, FL.

Kahn SA. Invited speaker. The use of a surfactant based burn and wound dressing in a porcine burn model. 38th John A. Boswick, M.D. Burn and Wound Care Symposium; 2016 Feb 17; Maui, HI.

Kahn SA. Invited speaker. Advances in burn care. American Burn Association Annual Meeting; 2016 May 4; Las Vegas, NV.

Liles JS. Invited speaker. Hereditary breast and ovarian cancer: the importance of BRCA testing. 12th Annual Breast Cancer Awareness Symposium; 2015 Oct 8; Marianna, FL.


Richards WO. Invited speaker. Surgical treatment of Barrett’s esophagus. 16th Annual Minimally Invasive Surgery Symposium; 2016 Feb 25; Las Vegas, NV.

Richards WO. Invited speaker. Gadgets and gimmicks for GERD. American College of Surgeons Alabama and Mississippi Chapters 2016 Annual Conference; 2016 Jun 10; Point Clear, AL.

Richards WO. Invited speaker. LINX (magnetic bead sphincter augmentation) a revolutionary procedure for severe GERD. 7th Annual Gulf Coast Acute Care Surgery Symposium; 2016 Apr 7; Mobile, AL.

Rider P. Invited speaker. Colocutaneous fistula: a step closer to taming the beast. 7th Annual Gulf Coast Acute Care Surgery Symposium; 2016 Apr 7; Mobile, AL.

Rodning CB. Invited speaker. Surgical profession. University of South Alabama Department of Surgery Reception for Chief Residents; 2016 Jun 25; Mobile, AL.

Simmons JD. Invited speaker. Potential contribution of mitochondrial (mt) DNA damage associated molecular patterns (DAMPs) in transfusion products to development of the acute respiratory distress syndrome (ARDS) after multiple transfusions. 75th Annual Meeting of American Association for the Surgery of Trauma and Clinical Congress of Acute Care Surgery; 2016 Sep 14; Waikoloa, HI.

Simmons JD. Invited speaker. Determining fluid responsiveness. 7th Annual Gulf Coast Acute Care Surgery Symposium; 2016 Apr 7; Mobile, AL.

Simmons JD. Invited speaker. Measuring intravascular volume. American College of Surgeons Alabama and Mississippi Chapters 2016 Annual Conference; 2016 Jun 5; Point Clear, AL.
Simmons JD. Invited speaker. Lessons learned: from a paramedic to a trauma surgeon. Mississippi Coastal Trauma Care Region 15th Annual Trauma Symposium; 2016 May 4; Biloxi, MS.


Tan MCB. Invited speaker. Breakthroughs in pancreatic cancer research. Montgomery Cancer Center; 2015 Nov 11; Montgomery, AL.

Tan MCB. Invited speaker. Emerging therapies for liver and pancreatic malignancies. Dothan Gut Club; 2016 Apr 28; Dothan, AL.

Tan MCB. Invited speaker. Clinical care of the patient with melanoma. University of South Alabama Mitchell Cancer Institute Hope Cup; 2016 May 12; Mobile, AL.

Tan MCB. Invited speaker. Multi-disciplinary cancer care. University of South Alabama College of Medicine Alumni Association Weekend; 2016 Jun 3; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dyess DL. AL Chapter American College of Surgeons (ACS) – Governor.


Kahn SA. America’s Top Surgeons, 2016.

Kahn SA. International Association of Fire Fighters Burn Injury Awareness Campaign Task Force- Appointed 12/15

Kahn SA. American Burn Association National Burn Repository Committee
Kahn SA. American Burn Association Research Committee

Kahn SA. International Association of Firefighters- Medical Advisor

Rider PR. Alabama State Chair, Commission on Cancer, American College of Surgeons Jun 2015-present

Richards WO. Editorial Board J of Laparoendoscopic and Advanced Surgical Techniques, Editorial Board Surgical Endoscopy, Ad hoc reviewer for Annals of Surgery, Ad hoc reviewer for Surgical Endoscopy, Ad hoc reviewer for Digestive Diseases and Sciences, Ad hoc reviewer for Journal of Surgical Research, Ad hoc reviewer for Surgery, External Associate of the Vanderbilt Institute for Integrative Biosystems Research and Education, Annual Best Doctors in America Database, Best Doctors, Inc., U.S. News and World Report Top Doctors 2016, President Alabama Chapter American College of Surgeons, Appointed member of the Mobile Health Department Board of Trust, Appointed Member of the Mobile Medical Society Board of Censors, Co-Director of the Foregut Sessions at the Minimally Invasive Surgery Symposium, Feb 24, 2016 Las Vegas, Nevada, Coordinating officer and Moderator for the video based education “Icons in Surgery” presented at the American College of Surgeons Clinical Congress October 5-6, Chicago, Illinois.

Rodning, CB. Counsellor, College of Counselors, District 1, Medical Association/State of AL, 2010-2016.

Simmons JD. Publications Committee – Association for Academic Surgery, Journal of Surgical Research.

Simmons JD. State Emergency Medical Control Committee for AL. 2016.

Simmons JD. Trauma Regional Advisory Council for Gulf Region 6 – Medical Association for the State of AL (MASA).

Simmons JD. ACS Committee on Trauma. 2016.

Tan MCB. Journal editor or editorial board member Editorial board, Case Studies in Surgery (CSS)

Tan MCB. Invited reviewer, World Journal of Surgical Oncology

Tan MCB. Invited reviewer, World Journal of Surgery

Tan MCB. Invited reviewer, Cancer Science and Research

Tan MCB. Invited reviewer, Journal of the Pancreas
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Medical Student Education: The Department of Surgery continues to have a leadership role in all aspects of student education. Sidney Brevard M.D., F.A.C.S., Lee Grimm, M.D., 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 significant increase in the national board scores. The mean national board score percentile for the students was the 66th percentile and for the first time in 7 years none of the students failed the shelf exam.

Review of the medical student evaluations of faculty reveal that the students acknowledge the faculty are very engaged in teaching, have superior knowledge of the fields of medicine and have excellent patient management skills. A few direct quotes from students illustrate the superior clinical services and teaching on the surgical services. “Dr. ______ is one of our best attendings I’ve worked with all year. He constantly encouraged us to perform at the best of our abilities. He was non-threatening with his questions and he used our mishaps to constructively teach us how to do better.” Dr. _____ is an effective, caring physician and a great teacher.” “Great teacher both clinically and in the operating room.” “Brilliant and technically gifted surgeon.”

General Surgery Residency Training: Dr. Simmons in his second year as Program Director along with associate program director Dr. Rider, have 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. All of the graduating residents for the last 2 years have passed their written boards on the first time. The graduating residents continue to match into competitive fellowship programs or to successfully transition to private practice in general surgery.

Recruitment: The Department was able to recruit 4 outstanding surgeons to continue the clinical, academic, and educational missions of the Department who will start in summer of 2016. Chip Hartin, M.D., F.A.C.S. was recruited to Pediatric surgery, Linda Ding, M.D. and Scott Patterson, M.D. were recruited to Trauma/critical care/burn surgery and Dr. John Hunter was recruited to Colorectal Surgery.
Division of Traumatology/Surgical Critical Care: Sidney B. Brevard, M.D., F.A.C.S., is in his second year as director of the Division and program director of the surgical critical care fellowship program. Scott Patterson, M.D. successfully completed the critical care fellowship and was recruited to join the USA faculty as an attending trauma/burn/critical care surgeon. 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. 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. Measurement of quality has been an ongoing project for the department and in the trauma services our observed to expected mortality has improved to better than average when compared to other university hospital systems.

Dr. Steve Kahn took over leadership of the Arnold Luterman regional burn unit and re-engineered the care delivered. Quality as measured by the observed to expected mortality has improved dramatically under Dr. Kahn’s leadership. There were no mortalities in the burn unit for 2 quarters and the O/E mortality ratio for the year was much better than expected. Moreover length of stay and readmission rates went down while serving more patients than in the preceding year. Burn research and presentations to regional and national meetings were much increased from the previous year. Dr. Kahn traveled to multiple hospitals in the region to perform outreach activities and develop relationships and referrals from the emergency rooms in order to improve burn care. The number of patients undergoing surgical treatment of burns has more than doubled this past year.

Pediatric Surgery: Jim Glasser, M.D., F.A.C.S. served as the full time pediatric surgeon with Celeste Hollands, M.D., F.A.C.S. covering part time. The Division was able to recruit Charles Hartin, M.D. FACS, a USA COM graduate to take over the responsibilities as Chief of the Division in July 2016. Dr. Randall Powell, M.D., FACS established the Randall W. Powell, M.D. Lectureship in Pediatric Surgery at the USA College of Medicine. Dr. Powell an Alpha Omega Alpha medical honor society graduate joined the department of Surgery as an Assistant Professor in 1984 and was promoted to Professor in 1991 and served in that role until he retired in 2009. We are saddened to report that Dr. Powell died in July 2016.

Colorectal Surgery: Dr. Rider in his second year as the Chief of the Division of Colorectal Surgery and a separate service with a chief resident in General Surgery serving on the service continued the development of the colorectal surgery division. Drs. Grimm and Rider developed the multidisciplinary Colorectal cancer multidisciplinary tumor conference in collaboration with radiation and medical oncologists in order to provide improved cancer care in the region. Since establishment of the colorectal cancer MDT in October 2015 89 patients have been treated by this multi-disciplinary team. More than ½ of the patients came to USA from outside Mobile to obtain expert care for...
their colorectal cancer. With the recruitment of the third colorectal surgeon Dr. John Hunter the USA Department of Surgery is increasingly recognized for its clinical expertise in colorectal and gastro-intestinal surgery. Much of the credit for the general surgery improvement in observed to expected mortality in 2015 is related to the superior care the colorectal service delivers while performing major small and large bowel resections.

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 scholarly work at regional and national meetings. Dr. Rodning has retired from active practice but continues to coordinate the Departments conferences, and academic activities. Joshua Taylor, M.D. a graduate of Johns Hopkins Medical School and Vanderbilt Surgical Residency program joined the faculty and in collaboration with Henry Barber, M.D., F.A.C.S. and William Richards, M.D., F.A.C.S. has taken over much of the general surgery elective case load. 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.

Clinical outcomes for General surgery for 2015 were outstanding. USA general surgery was ranked 16th out of 131 University Hospitals for our O/E mortality of 0.56 which is substantially better than expected. The improvement in our quality outcomes resulted from faculty efforts from Drs. Grimm, Rider, Tan, Simmons, Brevard, Richards, Taylor, Dyess and Barber through continuous quality improvement.

Breast and Endocrine: 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. Over the course of the past year he has passed his boards in Complex General Surgical Oncology and has expanded the faculty expertise in oncology with special emphasis on Breast/endocrine and Melanoma. 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.

Drs. Dyess and Liles are developing the multi-disciplinary Breast Center at the MCI but are making plans to physically move their practice into Strada Center on the Campus of Children’s and Women’s Hospital to improve the care of women with breast cancer in the upper Gulf Coast.

Plastic and Reconstructive Surgery: Ron Brooks, M.D. established himself as an expert in plastic and reconstructive surgeon who was able to collaborate with many of our faculty in the care of trauma, cancer, and infectious wounds. He completed his fellowship in Plastic and Reconstructive surgery at the University of Louisville and has been instrumental in working with our surgical faculty to reconstruct defects and lesions after trauma, cancer or infections.
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, while continuing to operate on patients who have a host of co-morbidities. A new surgical procedure was performed for the first time in the upper Gulf coast and Dr. Richards is one of only 245 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 innovative surgical procedure continues the tradition of collaboration, and multidisciplinary care between the Department of Surgery (Dr. Richards) and the Department of Medicine (Dr. Cash) 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. Both Drs. Tan and Liles are boarded in Complex General Surgical Oncology and provide specialized surgical oncology care. Dr Liles is the director of the USA Biobank a repository of biologic specimens with matched clinical records collected from USA patients with their written permission. During the past year Dr. Liles has re-written the consent process and increased enrollment in the program, and improved the storage techniques and protocols.

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 between Surgery and the College of Medicine, 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. Dr. Jon Simmons was awarded the K08 Mentored Clinical Scientist Award from the NIH directed at a surgeon in the early stages of their career who shows promising development as a physician scientist. The award supports his research efforts for 4 years. The grant entitled “mtDNA DAMPS: A Pharmacologic Target in Multi-Organ System Failure” aims to explore a potential pharmacologic treatment that addresses the underlying etiology of remote organ failure in trauma and sepsis. This grant will help develop Dr. Simmons as an independent investigator and to develop a NIH funded research lab focused on clinical translational research within the Department of Surgery. Historically it is the first K grant given to a
clinical investigator in one of the clinical departments at the University of South Alabama COM.

Collaboration between Luda Rachek, PhD in 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 which may be funded.

Paul Rider, M.D., F.A.C.S. Dr. Rider was also able to execute several clinical studies investigating use of molecular predictors of response to neoadjuvant therapy in patients with rectal cancer, post op pain relief after hernia repair, and topical E-101 to prevent surgical site infections. Dr. Rider also served as co-investigator on the MCI research “Molecular predictors and Prognosticators of Response to Neoadjuvant Therapy for Rectal Cancer”. This very important study will help physicians who treat rectal cancer determine the best neoadjuvant therapies for treatment of rectal cancer.

Lee Grimm, M.D., FACS involved a medical student during the summer research program to study the impact of the surgery curriculum changes had on NBME and Step 2 CK on student performance. This research also helps to identify the best practices for education and to improve the educational experience and outcomes for the medical students.

Marcus Tan, M.D., F.A.C.S. has collaborated with Lewis Pannell, PhD at MCI to investigate the colon lavage fluids to determine the status of the pancreas and 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. Multiple patients were enrolled into phase 2 and phase 3 clinical trials. Dr. Tan also served as co-investigator for 2 important melanoma projects “Biomarkers of oxidative stress predict response to melanoma therapies” and to “Behavioral and biologic consequences of alternative tanning methods in adolescents and young adults”. These collaborative efforts in oncologic surgical research with colleagues at the MCI show the expanding clinical translational research that is going on within our surgical oncology division and within the Department of Surgery.

Spencer Liles, M.D. has developed collaborations within MCI, and COM basic scientist to study genetic defects in melanoma and has submitted a NIH KL2 Mentored Clinical Scientist grant titled “Significance and Repair Pathways of Regulatory Sequence Variants in Melanoma”. This avenue of research is an exciting collaboration between Dr. Liles and Mark Gillespie Ph.D. Chair of Pharmacology and Additionally Dr Liles rewrote the IRB proposal for biobank repository for storage of biologic specimens for the USA health system and the Mitchell Cancer Institute.

William Richards, M.D., F.A.C.S. has started several clinical trials investigating the outcomes after LINX or magnetic sphincter augmentation. The ROARS study is a multi-institutional registry of patients undergoing LINX procedures while the Caliber study randomizes patients with GERD to increased amounts of PPI use or the LINX procedure.
The preliminary results suggest that the LINX procedure has all the benefits of the Nissen fundoplication without the negative side-effects such as bloating and dysphagia seen long term after Nissen fundoplication.

In summary the Department of Surgery faculty are collaborating with basic scientists at the MCI, the University and at the College of Medicine basic science departments in a wide range of research activities. Multiple grant proposals have been submitted which has resulted in funding for several projects and with many promising reviews. These research projects which are primarily clinical translational research demonstrate the wide range of clinical expertise in critical care, shock, gastrointestinal physiology, cancer, and wound healing have been developed by the faculty in the Department. Increasingly the Department of Surgery is recognized for our expertise in the care of trauma, burns, colorectal cancer, hepato-pancreatic-biliary cancer, breast cancer, melanoma, and esophageal disorders.
I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


I. PUBLISHED ABSTRACTS

experiences. Sixth Annual South Alabama Conference on Teaching and Learning; 2016 May 10; Mobile, AL. Available from: http://southalabama.edu/departments/ilc/cotl-session4.html#12


### II. PUBLISHED BOOKS

### III. INVITED PRESENTATIONS

### IV. NATIONAL PROFESSIONAL RECOGNITION

**Clista Clanton:** Founding member, Gulf States Health Policy Center Coalition.

**Trey Lemley:** Member, Southern Chapter Medical Library Nominating Committee; Member Southern Chapter/Medical Library Association Membership Committee; President Elect / Program Chair, Alabama Health Libraries Association; Distinguished Member, Academy of Health Information Professionals.

**Rachel Fenske:** Member, Mobile United Health Task Force.

**Jie Li:** Member, The International Federation of Library Associations and Institutions Information Technology Standing Committee; Member, Medical Library Association representative to the Taiwan Medical Library Association; 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, Network of Alabama Academic Libraries Online Content Committee; Chair, Alabama Health Libraries Association Emergency Preparedness Committee; Distinguished Member, Academy of Health Information Professionals.

**Justin Robertson:** Editor, *Journal of Electronic Resources in Medical Libraries*; Member, Health InfoNet of Alabama Leadership team; Past President, Alabama Health Libraries Association; Web Co-Coordinator, Alabama Health Libraries
Association; Member, Southern Chapter/Medical Library Association Honors and Awards Committee, Board Member, Fairhope (Alabama) Public Library Foundation.

Geneva Staggs: Member, Southern Chapter/Medical Library Association Program Committee (Poster selection group); Moderator, Southern Chapter/Medical Library Association concurrent paper presentation section; Member, Southern Chapter/Medical Library Association Bylaws Committee; Reviewer, Medical Library Association 2017 Annual Meeting Content; Institutional Representative, Consortium of Southern Biomedical Libraries; Distinguished Member, Academy of Health Information Professionals.

Andrea Wright: Member, Regional Advisory Committee for Technology of the National Network of Libraries of Medicine (NN/LM) Southeastern/Atlantic (SE/A) Region; Web Co-Coordinator, Alabama Health Libraries Association; Chair, Medical Library Association Oral History Committee; eTechnology Column Editor, *Journal of Electronic Resources in Medical Libraries*; Provisional Member, Academy of Health Information Professionals.

V. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Biomedical Library was recognized as a Founding Member of the Gulf States Health Policy Center Coalition by Dr. Regina Benjamin and continues to work with other community partners in the assessment, development, and evaluation of policies impacting health disparities.

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 librarian is embedded in each 1st and 2nd year module.

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

A plan for revision of the Biomedical Library web pages is underway. The technology has begun moving the library’s site onto 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. Additionally, blast e-mails are distributed as appropriate. When the website moves to the new platform, the Biofeedback blog format will no longer be supported. A new format is being investigated.

Educational sessions are provided for students in Colleges of Medicine, Nursing and Allied Health Professions. The Medical Informatics/Evidence-Based Medicine Curriculum for the COM was revised and is being used in the first three years of the College of Medicine curriculum. At the end of instructional sessions in the three colleges, students are asked to complete an online evaluation. Results indicate that of those responding, most felt the amount of material presented was “Just Right” and found the information presented helpful.

Outreach:
An award was received from the National Institutes 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 is also used for librarian-patient information consultations. A by-product of this project was the provision of 2 continuing education sessions for over 100 of the NICU nursing staff.

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. For these groups instruction was provided on conducting library research. Additionally, a Biomedical Library librarian volunteers in the computer lab at the Sybil Smith Family Village. Biomedical Library librarians participated in the USA Benefits Fair and the Healthy USA Health Fair. Three Biomedical Library librarians participated in the community event, Homeless Connect.
Resources:
New resources added during the year include UpToDate and additional books and journals to meet the needs of library users.

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 were developed and the tool is being used for various data collection projects of university faculty.
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 January of 2016. 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 2017. (http://www.usahealthsystem.com/CLBNewsletter).

We have continued to update our CLB website along with the College of Medicine. Our administrative offices are located in the Medical Sciences Building in Rooms 3340 on the main University campus. Ms. Jennifer Collins serves as support staff for the CLB and is responsible for clerical duties for the administrative office and research laboratories.

Detailed information about the CLB is available with a click on our homepage (http://www.usouthal.edu/clb). The web page is interactive and contains a variety of information including faculty and student bibliographies, recent publications, and information regarding scientific and training programs. Our annual report is available through Ms. Jennifer Collins (460-7086) at the CLB office.

Research Activities

The CLB was well represented at national and international scientific meetings with a number of faculty, postdoctoral fellows, and graduate students presenting their work at multiple forums, including the American Heart Association, Federation of American Societies for Experimental Biology, XXIX Congress of the International Society for Advancement of Cytometry, American Physiological Society, Southern Biomedical Engineering Conference, Gordon Research Conference, and the International American Thoracic Society.

Our Critical Care Conference series in conjunction with the Pulmonary Division hosted eight 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. Raymond Langley, Assistant Professor of Pharmacology, presented *Metabolomic risk score for sepsis outcome prediction*; Dr. Natalie Bauer, Assistant Professor of Pharmacology, presented *Microparticles: From cellular trash to signaling treasure*; Dr. Steve
Lim, Assistant Professor of Biochemistry, presented *New roles of focal adhesion kinase in vascular inflammation and remodeling*; Anagha Malur, MS, Pulmonary Lab Manager, East Carolina University, Brody School of Medicine, Greenville, NC, presented *PPARgamma: Guardian of the Lung*; Dr. Lawrence LeClaire III, Assistant Professor, Department of Biochemistry, presented *New Directions for Controlling Cell Migration*; Dr. Glen Borchert, Assistant Professor of Biological Sciences, presented *Fully Mining RNA-Seq Data for Relevant RNAs*; Dr. Wito Richter, Assistant Professor of Biochemistry, presented *Type 4 cAMP-phosphodiesterases (PDE4s) in inflammatory lung diseases*. Dr. Jon Audia, Associate Professor of Microbiology, presented *Caspase-1 is a sentinel regulator of endothelial stress responses*.

**Extramural Funding**

In the past year, CLB principal investigators submitted 35 grant applications to the American Heart Association (AHA), National Institutes of Health (NIH), and other foundations/industries. To date, eleven applications from the previous fiscal year were awarded generating over $5 million in new revenue over the next five years. Dr. Mark Gillespie, Professor and Chair, Department of Pharmacology, received two awards an NIH R44 Phase II SBIR Grant entitled *Mitochondrial DNA repair agents for acute lung injury* and an NIH UL1 subcontract with UAB Center for Clinical and Translational Science (CCTS) entitled *University of South Alabama Translational Research Service Center*. Dr. Wito Richter, Assistant Professor of Biochemistry, received two awards an AHA NCRP Summer 2015 Innovative Research Grant entitled *Regulation of PDE4 in heart failure*, and a Cystic Fibrosis Foundation (CCF) entitled *Targeting Type 4 Phosphodiesterases for CF Therapy*. Adam Morrow, Postdoctoral Fellow, Department of Pharmacology, received an AHA Postdoctoral Fellowship entitled *Endothelial tau oligomerization causes transmissible vascular cytotoxicity*. Naga S. Annamdevula, Graduate Student, Department of Chemical and Biomolecular Engineering and Center for Lung Biology, received an AHA Predoctoral Fellowship entitled *The spatial distribution of PDE4 isoforms regulates the compartmentalized cAMP signals in PMVECs*. Dr. Silas Leavesley, Department of Chemical and Biomolecular Engineering and Center for Lung Biology, received an NIH UL1 subcontract with UAB Center for Clinical and Translational Science (CCTS) entitled *Translating Hyperspectral Imaging to Real Time Endoscopy*. Dr. William Gerthoffer, Professor and Chair, Department of Biochemistry, received an NIH R21 entitled *MicroRNA regulation of airway remodeling and repair in asthma*. Dr. Mikhail Alexeyev Associate Professor, Department of Physiology and Cell Biology, received an NIH R01 entitled *Mouse models for mitochondrial disorders caused by mutations in mtDNA*. Dr. Troy Stevens, Professor and Chair, Department of Physiology and Cell Biology, received an InsMed Contract entitled *Testing a therapy to reverse occlusive neo-intimal lesions in pulmonary arterial hypertension*. Dr. Jon Simmons, Associate Professor, Department of Surgery, received an NIH K08 award entitled *mtDNA DAMPS: a pharmacologic target in multi-organ system failure*.

**Education**

The CLB’s NIH-funded T32 training grant on *Cell Signaling and Lung Pathobiology*, directed by Drs. Mary Townsley and Troy Stevens, is currently in its 13th year of funding. This T32 supports 6 pre-doctoral trainees in the Lung Biology track per year, along with 4 short-term summer research trainees.
During this academic year, 18 predoctoral fellows trained in the laboratories of CLB faculty affiliated with the Lung Biology track in the Basic Medical Sciences Doctoral Program. Several Lung Biology trainees completed requirements for the Ph.D. degree within this academic year (Blair, Favreau, Kadeba, Morrow, Oshima, and Xu).

The “Did you know?” series of research/historical perspectives, now in its eleventh year, is authored and peer-reviewed by CLB trainees. This series is overseen by an Editorial Board comprised of faculty in the CLB. The most recent article was authored by Ed Crockett on “bar-headed geese and high altitude flight”. The archives of the series can be found at: http://www.usahealthsystem.com/archives.
2015-2016
Summary of Scholarly Activities
Center for Healthy Communities

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS


Wraight S, Hanks R, Patterson C. Will they stay or will they go? Long-term commitment to a community health advocacy program. Women’s Health Update Conference. 2016 Aug 5; Birmingham, AL.

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS


Hudson CK, Hudson A, Hudson M. Invited speakers. The labor market health care survey probability sampling with microdata. Southern Sociological Society 79th Annual Meeting Buckhead; 2016 Apr 15; Atlanta GA.

Arrieta M. Invited speaker. Community engagement & community engaged research: Do they hold value for translational scientist? University of Alabama at Birmingham Clinical and Translational Science Training Program. 2016 May 18; Birmingham AL.

Crook ED. Invited speaker. The social determinants of health: A focus on poverty. University of Alabama Rural Medicine Scholarship Conference. 2016 Apr 26; Tuscaloosa AL.

Crook ED. Invited speaker. Walking the path to “influence” in academic medicine. Edward Hook Memorial Lecture; Harold Amos Medical Faculty Development Program (Robert Wood Johnson Foundation); 2015 Oct 7: Dallas TX.

V. NATIONAL PROFESSIONAL RECOGNITION
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 fourth year of its second 5 year cycle of the P-20 grant funding from NIH’s National Institute for Minority Health and Health Disparities. The Center is a NIH Designated Center of Excellence in Health Disparities. Dr. Errol D. Crook continues as the Center Director and the PI of the P-20 Grant. The Center’s efforts are focused 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 of this year is our membership in a consortium of similar academic centers in Alabama, Mississippi, and Louisiana organized under the UAB CTSA. Our collaborative efforts with these institutions should position the Center for even greater effectiveness in our region. A brief summary of our research and community engagement efforts are outlined below.

Research

Dr. Martha Arrieta continues to lead the research core. The core oversees 3 primary projects funded by our P-20 grant and works with several other partners in smaller, but important projects. The 3 research projects funded by the P-20 grant are making great progress, and are as follows:

1) Plasma HSP27 and HSP27 Phosphorylation, a Potential Biomarker of Atherosclerosis in Patients with Cardiovascular Disease. PI: William Gerthoffer, PhD.


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

The Health Disparities Research Group has continued its efforts in promoting community engaged programs, research and instructional activities across the campus and the region. All of the above projects have been recognized with acceptance of material for presentation at prestigious scientific meetings.

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 and has been recognized for the long-term retention (up to 10 years) of many of our CHA group. Understanding the factors that promote their retention and continued efforts to promote great health within our community has been an academic focus over the last year. We hope to share those factors with other agencies relying on volunteerism and a dedication to community well-being.
The Pipeline component focuses its efforts on high school students from underserved communities. It aims to reinforce the STEM courses, expose students 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. Both programs were successful again this year and are coveted opportunities for students at our target schools.

**Research Training and Mentoring**

Dr. Crook continues as Director of this core. We have been successful in continuing the pipeline from our high school programs, mentioned above, to undergraduate studies and research efforts. Students who have demonstrated great promise in our high school programs have worked during the summers in research projects of the Center. In addition we offer opportunities to medical students and additional undergraduate students with an interest in health disparities. In the summer of 2016 we had 5 students participate in the summer research program. All presented their work in poster presentation at the College of Medicine Research Day on July 29, 2016.
2015-2016
Summary of Scholarly Activities
Center for Strategic Health Innovation

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS

II. PUBLISHED ABSTRACTS

III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Gay A, Melton K. Invited speakers. Meaningful use stage 2. Dothan/Wiregrass Medical Group Management Associations Local Chapter Meeting; 2015 Nov 12; Dothan, AL.

Pierce M, Melton K. Invited speakers. Meaningful use stages 2 & 3. Montgomery Medical Group Management Associations Local Chapter Meeting; 2016 Mar 27; Montgomery, AL.

Pierce M, Melton K. Invited speakers. Meaningful use stages 2 & 3. Enterprise Medical Group Management Associations Local Chapter Meeting; 2016 Mar 27; Enterprise, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Center for Strategic Health Innovation (CSHI) serves as a leader in innovative healthcare technology applications and solutions. CSHI enjoyed a successful year in our major focus areas: 1) health technology development and deployment, 2) applied informatics and healthcare analytics services, 3) technical assistance for meeting Meaningful Use requirements, and 4) innovation programs with Medicare. Dr. Samuel J. Strada, Dean of the College of Medicine for the University of South Alabama serves as CSHI’s acting Director following the resignation of Dr. Daniel. CSHI actively promotes collaboration on projects with the USA School of Computing, USA Department of Family Practice, the USA College of Nursing, the USA Department of OB/GYN, the University of Alabama at Birmingham, the Office of the National Coordinator (ONC), and other Regional Extension Centers (REC’s) in the southeast US. CSHI is now in our 4th year of collaboration with the USA Department of OB/GYN on the awarded CMS Strong Start for Mothers and Newborns Initiative Grant. Dr. Craig Sherman is the principal investigator on the grant.

Medical Informatics and Healthcare Technology: 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. CSHI utilizes
innovative health technologies to improve the care, quality, cost and access to healthcare throughout Alabama. RMEDE™ is a secure web-based life-state management system that supports our Medicaid programs: 1) in-home monitoring of patients with chronic disease; 2) Regional Care Organizations Health Home case management program; 3) data and reporting for the maternity program, 5) an interventional informatics reporting system and 6) Primary Medical Provider (PMP) Portal. We have continued our partnership with Alabama Medicaid to support the now statewide Regional Care Organizations (RCO’s) 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 in Alabama 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. CSHI currently manages over 2 million Medicaid patient records. There are 1,075 active Medicaid Pt 1st patients participating in our in-home biomonitoring project overseen by a nurse practitioner, Barbra Oliver. This program is a unique partnership between Medicaid, The Alabama Department of Public Health (ADPH) and USA’s CSHI. Patient referrals are received 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. An ROI on 2014 data showed a decrease in Emergency Department visits and hospitalizations as compared with pre program data. Pharmacy use increased as well as provider office visits. CSHI is a valuable partner with the Medicaid Maternity Program in their quest for Better Birth Outcomes and lower Infant Mortality rates. RMEDE™ is the platform for the data collection system with reporting capabilities utilizing recipient information gathered from enrollment activities to evaluate compliance with accepted national standards of practice. RMEDE™ provides Medicaid and their contractors the ability to enter and view the data online. Data is utilized by Medicaid to determine benchmarks for compliance and comparisons. CSHI developed and maintains a Primary Medical Provider (PMP) Portal as 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 ostensibly use these reports to make decisions regarding improving the quality of care of patients while reducing the cost of care.

CSHI worked with the AL Chapter of the American Academy of Pediatrics (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 performed 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) operates 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. After 6 years of successfully providing Meaningful Use support to Preferred Primary Care Physicians (PPCPs), the grant officially ended June 5, 2016. However, ALREC will continue as a viable entity expanding its consulting services to include Medicare Access and CHIP Reauthorization Act of 2015 (MACRA), practice transformation, revenue cycle management, and other healthcare services. ALREC’s grant goal was to assist 1304 PPCPs to become meaningful users of a certified Electronic Health Record system. We successfully achieved 98% of our goal, 1,272 PPCPs met all of the Meaningful Use (MU) Stage 1 requirements. ALREC also met 67% of its Critical Access Hospital goal, 10 of the 15 member hospitals completed the MU Stage 1 guidelines. Currently, ALREC has over 2000 members and 1720 members that are live on a Certified Electronic Health Record. Our Trusted Advisors have assisted 1409 members in achieving Stage 1 Meaningful Use, including PPCPs and non-PPCPs. ALREC has helped providers in Alabama receive over $55 million in Meaningful Use incentive payments. Additionally, our work with Critical Access and Rural Hospitals resulted in members receiving over $153 million in Meaningful Use incentive payments. Throughout the year, ALREC had five Food for Thought workshops held throughout the State to inform providers on MU updates, Physician Quality Reporting System (PQRS), Health Information Exchange (HIE) issues and other relevant healthcare topics. Also we hosted 2 webinars for our members to discuss MACRA and Chronic Care management.

As part of its sustainability model, ALREC offers its 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, almost 25% of these providers have renewed their membership with ALREC. Also, the ALREC team partnered with the Georgia, Florida, Louisiana, Texas Regional Extension Centers and a non-profit organization in Arkansas to apply for a MACRA Quality Improvement Direct Technical Assistance contract. MACRA’s goal is to link Medicare payments to quality or value. Beginning August, 2016, ALREC partnered with Chronic Care IQ (CCIQ), a software company who developed a remote patient monitoring (RPM) mobile app, which allow physicians to track the actual amount of time a provider or his/her staff expend to remotely monitor a chronically ill patient. The patient uses a smart phone to enter their clinical data, which is uploaded to the physical dashboard where the patient vitals are monitored. When 20 minutes of monthly monitoring has occurred the system will create the Medicare billing. ALREC will market the CCIQ app to Medicare providers beginning with our Paid clients. ALREC will provide implementation support, system training and ongoing customer support for this product. Our goal is to enroll 100 providers within the next 12 months. Another service that ALREC is offering to its members is Value Base Purchasing, whereby it will work with Group Purchasing organizations to offer supplies to its ALREC members at a discounted rate.
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 Center for Disaster Healthcare Preparedness (CDHP), formerly a division of The Center for Strategic Health Innovation (CSHI), was established in October of 2015 as a standalone department. CDHP, since 2004, continues to serve as a leader in healthcare disaster preparedness and response training. David Wallace, DVM, serves as the Director of Preparedness Training. CDHP manages the Alabama Incident Management System (AIMS) and the Advanced Regional Response Training Center through a cooperative agreement with the Center for Emergency Preparedness (CEP), Alabama Department of Public Health, sanctioned by the Department of Health and Human Services, Assistant Secretary for Preparedness.

ALABAMA INCIDENT MANAGEMENT SYSTEM (AIMS)
AIMS is the information management web-based tool designed by CDHP for the State of Alabama to capture healthcare system situational awareness on both a daily basis and during disasters. Critical data such as the number of 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 profile for all to view--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 in real time during an event. Revisions and upgrades to enhance AIMS have been
completed. AIMS serves as the primary situational awareness, communication and information tool for the 11 Healthcare Coalitions established in each of the Public Health areas. Active AIMS users include approximately 120 Hospitals, 15 Community Health Center (CHC) Agencies, 225 Nursing Homes, 12 Medical Needs Shelters, 67 Alabama Emergency Management Agencies, and approximately 50 Alabama Department of Public Health personnel, as well as numerous other agencies who are members of their Healthcare Coalitions. CDHP anticipates that over the next year Assisted Living Facilities and EMS providers will also be added to the list of AIMS users across the state. 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 requirements, numerous AIMS exercises were conducted by the Healthcare Coalitions as a part of their ongoing preparedness activities, and AIMS was activated for two events.

In November 2015, CDHP traveled to Tallahassee, Florida and provided a demonstration of the AIMS program to the Florida Department of Health (DOH). Florida DOH signed a Memorandum of Understanding with CEP/ADPH and will begin the process of customizing AIMS for a deployment of the system in late 2016. AIMS is owned by ADPH and provides the code free of charge to any state agency wishing to use AIMS.

ADVANCED REGIONAL RESPONSE TRAINING CENTER (ARRTC)

Now in its thirteenth year, ARRTC is a regional response training center 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. The total number of students attending ARRTC training between 2005 and 2016 is 15,805. This year, CDHP offered training on-site in Mobile (Basic Course, Disaster Preparedness Clinical Simulation Course and Healthcare Emergency Preparedness Professional Certificate Course) and throughout the State at requested healthcare facilities (Road Show Courses). ARRTC Basic is a two-day course designed to provide core disaster response training. Thirteen sessions were scheduled this year, and, as a subset of the Basic Course, one session was provided 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 infectious disease (EBOLA), crisis standards of care, crisis risk management, corporate healthcare response to disasters, leadership and decision making during emergency response. Attendance for the Basic courses totaled 414 students during 2015-2016. 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. Class size is limited due to the hands-on nature of the course and this year a total of 102 students participated. Thirty-six Road Show Courses were provided, each
consisting of a one-day session which provides 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. Road Show enrollment included 1,045 students during 2015-2016. The Healthcare Emergency Preparedness Professional Certificate Course (HEPP) completed its second program year, with ten students receiving certificates of completion. 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. In July 2016, the third HEPP course began with 17 students enrolled representing hospitals, nursing homes, EMS, Higher Education and State government. The HEPP program is an online course consisting of more than 250 hours of instructional material and interactive assignments. HEPP is one of only a few advanced educational programs available throughout the country that is focused on developing Healthcare Emergency Preparedness Professionals. CDHP’s goal is to begin offering courses to non-Alabama healthcare professionals, perhaps as early as 2017.
2015-2016
Summary of Scholarly Activities
Comprehensive Sickle Cell Center

I. PUBLISHED JOURNAL ARTICLES, BOOK CHAPTERS, AND PATENTS


II. PUBLISHED ABSTRACTS


III. PUBLISHED BOOKS

IV. INVITED PRESENTATIONS

Haynes J. Invited speaker. Shadows of yesterday, reflections of tomorrow II. Alpha Elites Senior Banquet, Bishop State Community College; 2016 Jun 3; Mobile, AL.

Haynes, J. Invited speaker. Pulmonary complications of sickle cell disease. 1st Annual Sickle Cell Disease Symposium; 2015 Oct 24; Charlotte, NC.

Haynes, J. Invited speaker. Pathology of the disease and manifestation of sickle cell disease. Sickle Cell Disease Association Educator Certification Program; 2015 Nov 17; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Johnson Haynes Jr: Listed: America’s Top Doctors; Best Doctors in America; 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; Sickle Cell Disease Council for Change, Pfizer Inc. Workshop.

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 has applied for an NIH: (RFA-HL-16-101) grant, Sickle Cell Disease Implementation Consortium (SCDIC): Using Implementation Science to Optimize Care of Adolescents and Adults with Sickle Cell Disease (U01). “Breaking Down Barriers to Quality Healthcare Through Expansion of the Primary Care Provider Network and Implementation of Early Transitioning in Patients with Sickle Cell Disease.” (Pending)

Clinical Operations: The 2015-2016 academic year marks the close of the 17th 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 Medicine, Family Medicine, and Pediatric Medicine at the University of South Alabama; and 2) to be a resource for practicing physicians in the University and private community. The adult clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; 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. Approval to hire a second nurse practitioner has been obtained for the adult sickle cell clinic; interviews are in progress.

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 fifth year. In the PACT Program, a Learning Resource and Development Center (LRDC) is in development and will service clients 13-19 years old. The LRDC space has been renovated in the Moorer Clinical Sciences Building in room 1515 to house the new center.

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

**Education:** The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community and continues to support the Counselor /Educator Certification Program, which takes place at the Sickle Cell Disease Association of America, Mobile Chapter. The USA Comprehensive Sickle Cell Center has sponsored a clinical based conference on practical issues involving sickle hemoglobinopathies for the past 15 years. This conference held Saturday April 30, 2016 was entitled, “Practical Issues in Sickle Cell Disease XV: More Is Not Always Better.” Listed below are the speakers and topics covered at the 2016 conference.

Dr. Ifeyinwa Osunkwo was the keynote speaker for this year’s conference and the recipient of the Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Endowed Lectureship Award. Dr. Osunkwo delivered a comprehensive review on transfusion therapy: indications, therapeutic targets and complications in sickle cell disease. Dr. Osunkwo is the Medical Director of the Sickle Cell Program at the Levine Cancer Institute in Charlotte, North Carolina.

Ardie Pack-Mabien, CRNP in the University of South Alabama Comprehensive Sickle Cell Center, presented findings on inadvertent iron overload in sickle cell disease patients not on chronic transfusions. This study was recently published in the J Am Assoc Nurse Pract. 2015, Oct; 27(10): 591-596.

Dr. Felicia Wilson, Professor of Pediatrics, Division of Hematology/ Oncology at the University of South Alabama, provided a comprehensive review on the pathophysiology of iron overload and the management of iron overload in sickle cell disease. The role of currently available oral iron chelators was addressed.

This year’s conference incorporated a series of case reports, presented by residents in the Department of Internal Medicine and Pediatrics. Drs. Sajjad Ahmad and Shenikqua Bouges addressed a very important and often clinical challenge of pain crisis being a diagnosis of exclusion.
Kim Zlomke, PhD, Assistant Professor, of Psychology rounded out this year’s conference on the topic of caring for the whole person: psychosocial considerations in pediatric patients with sickle cell disease.

This year’s conference provided a maximum of 7.0 AMA PRA Category 1 Credits™.

The Dr. Cecil L. Parker, Jr. Sickle Cell Disease Distinguished Lectureship Endowment is now in its 9th year of operation and continues to provide funding to support the educational agenda in perpetuity of the USA Comprehensive Sickle Cell Center. Going forward, we will continue the clinical operations with the same ambition and sincerity as we have previously. We continue to seek the necessary grant support to sustain 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 Vice President of the Alabama Sickle Cell Oversight Regulatory Commission. The Center’s newsletter, “Sickle Cell Today” is distributed across the State of Alabama to clients, client’s families, administrators, community sickle cell foundations, physicians and legislators in April and September of each year. The Center is now in its 10th 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, which is in September of each year. The 2015 blood drive was the most successful in our history where 72 units of blood were collected. Dr. Haynes is now in his fifth year as Assistant Dean of Diversity and Inclusion in the USA College of Medicine.

On January 26, 2016 Dr. Johnson Haynes, Jr. arranged the first meeting of a community-based, Sickle Cell Center Development Council. The current Chair is Cheryl Franklin, D.N.S. Other members include: Kerry Cohen, Chris Cox, M.D.; Karlos Finley, J.D.; Fr. John George, Cynthia Tucker Haynes, Jessica Knight, Art May, Renee Nelson, Primus Ridgeway, and Dinish Simpson. This council will facilitate the sickle cell center community education and outreach, public relations, event planning and fundraising. On June 16, 2016 the council spear-headed a community meet and greet social event in celebration of World Sickle Cell Awareness Day. This was the first of its kind held by the Center in its 37 years of existence.
Office of Medical Alumni Relations
Annual Report
2015-2016

Representing 41 graduating classes (1976-2016), the total number of M.D. graduates of the USA College of Medicine is 2,549 (not including former USAMC housestaff or graduates of the Ph.D. program).

2015-2016 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. Matthew McIntyre, ’06
- Dr. Amy Morris ’92
- Dr. Ed Panacek, ’81
- Dr. Juan Ronderos, ’85
- Dr. Maryella Sirmon ’78
- Dr. Brandi Trammell, ’02

During the 2016 Annual Meeting of the Board of Directors, one new member was appointed to the Board of Directors and will begin his term with the 2016-2017 year:

- Dr. Matthew Cepeda, ’03
Scholarship Recipients for the 2015-2016 Academic Year

<table>
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<tr>
<th>Student Name</th>
<th>Scholarship Received</th>
<th>Amount of Scholarship</th>
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<tbody>
<tr>
<td>Christina Schaar</td>
<td>2016 Medical Alumni Association Scholar</td>
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<tr>
<td>Lauren Chastain</td>
<td>2016 Medical Alumni Association Scholar</td>
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<tr>
<td>Tina Lu</td>
<td>2016 Medical Alumni Association Scholar</td>
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<td>Sarah Mayberry</td>
<td>Les Sockwell Memorial Award</td>
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<td>Michael Hamer</td>
<td>Christian Grinaker Award</td>
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<tr>
<td>Anna Crutchfield</td>
<td>Sid Huggins Family Practice Award</td>
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<tr>
<td>Forrest Lyon</td>
<td>Class of 1981 Scholarship</td>
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<tr>
<td>Dheepa Sekar</td>
<td>Medical Alumni Leadership Award</td>
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<td></td>
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<td><strong>$38,500</strong></td>
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</tbody>
</table>

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 Wladimir Wertelecki, M.D., Emeritus Professor and former Chairman of the Department of Medical Genetics, with the 2016 Distinguished Service Award.

Additionally, the 2016 Reunion Weekend program included time to honor and thank Dr. Samuel J. Strada, Dean of the College of Medicine for his guidance, support and mentorship as his plans to retire in late 2016 are realized. The Association and Board of Directors also thanked Dr. Kit Outlaw, outgoing MAA Board President (2014-2016) for 2 years of generous service and leadership. Dr. Bill Blaylock assumed the position of MAA Board President (2016-2018) on June 3, 2016.

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 Reunion. This year, 9 Continuing Medical Education credits were available for attendees to earn and included the following topics:

- **Angus McBryde, M.D.:** *Fitness Related Injuries: How to Combat Overuse in the Active Patient*
- **Lynn Yonge, M.D. ’86:** *Living or Dying in the Wilderness Urban Interface*
- **T.J. Hundley, M.D.’04:** *From Sisyphus to the Phoenix: Burnout and Resiliency in Physicians*
- **Elizabeth Minto, M.D.:** *Migraine: A Better Understanding of a Ubiquitous Diagnosis*
- **Ed Panacek, M.D., M.P.H. ’81:** *Sepsis Update: 2016*
- **Alana Schilthuis, M.D. ’10:** *Vaccines in Primary Care*
- **Marcus Tan, M.D.:** *Developments in Multidisciplinary Cancer Care*
- Phillip Almalouf, M.D.: *Hard to Breathe? Let’s Talk About COPD*
- Janyce Sanford, ’86 M.D.: *Developing Physician Leaders Through Mentorship*
- Tom Miller, M.D. and Bob Chagrasulis, M.D. ’81: *Medical Clinics in the Sugar Plantations and Prisons of the Dominican Republic*
- Pat Murphy, M.D. ’76: *TAVR vs AVR: Where We Are Now and Where We Are Going*
- Anthony Galanos, M.D. ’86: *Contemporary Aging: Thoughts of a Geriatrician*
- Robert Percy, M.D. ’96: *Palliative Care: A Discussion of Perceived and Actual Benefits of Organization and Initiation of a Palliative Care Team at Mobile Infirmary*

**Student Events Hosted**

The *Medical Alumni Speaker Series* presented 2 lectures for the USA College of Medicine Students during the 2015-2016 Academic Year:

- **John LeDoux, M.D. ’02:** *Integrating Work and Life: Pathways in Cardiology*
- **Anne Schott M.D. ’89:** *From Mississippi to Michigan: Keeping an Open Mind*

The Medical Alumni Association also sponsored a graduation party for the Class of 2016 at the Bluegill Restaurant.

**Student Events Sponsored**

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

- Class of 2019 Freshman Orientation lunch and party
- Class of 2018 White Coat Ceremony
- 2016 Review of Systems
- 2016 Match Day
- Dawg Day (co-hosted with the Basic Medical Science Student Organization)
- Asclepian Ball
- Class of 2016 Skit Night

The Medical Alumni Association was proud to work closely with COM students to revive the Gumbo Chili Showdown. Held at Ladd Stadium in Mobile, AL. on Saturday, April 2, 2016, the Showdown raised $12,000 which was directly contributed to the Regan Robinson Scholarship Fund.

**2015-2016 Annual Fund and Membership Drive Results**

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<th>Amount</th>
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<td>Annual Fund Contributions</td>
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<tr>
<td>Amount Raised via Memberships</td>
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<td><strong>Total Amount Raised</strong></td>
<td><strong>$49,968.28</strong></td>
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2015-2016
Division of Medical Education and Student Affairs

The Division of Medical Education and Student Affairs is responsible for all undergraduate education programs in the College of Medicine. Activities in the Division of Medical Education and Student Affairs are accomplished through offices in the Medical Sciences Building and Mastin Building.

Student Affairs

The Medical Association of the State of Alabama, 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 in downtown Mobile on March 18. The Match results were impressive and included one student who matched in Radiation Oncology at Detroit Medical Center; one who matched in Dermatology at the University of Mississippi; three students who matched in Ophthalmology at the University of Mississippi, University of Florida, and the University of Iowa; and one who matched in Neurological Surgery at Virginia Commonwealth. Students matched in eighteen different states and will be going to programs such as Baylor, Wake Forest, Vanderbilt, Tulane, University of Pittsburgh Medical Center, Emory, and Tufts Medical Center. Twenty-seven percent of the students will remain in Alabama and fourteen students matched here at USA.

Honors Convocation for the College of Medicine was held Friday evening, May 6, 2016, in the Mitchell Center on the USA campus. Dr. Charles B. Rodning, Professor in the Department of Surgery, was selected as the faculty speaker by the Class of 2016 and William Allen Cutchen was selected to be the class speaker. Awards for academic achievement and community service were announced and the Hippocratic Oath was administered. Graduation was held at 10 a.m. on May 7, 2016.
The number of visiting medical students who participated in senior elective courses at USACOM in 2012-2013 is outlined below:

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<td>12</td>
<td>6</td>
<td>7</td>
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<td>11</td>
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<td>Schools</td>
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<td>From Foreign Schools</td>
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<td>Completed Paperwork,</td>
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<td>Schools</td>
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<td>From Foreign Schools</td>
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<td>Disciplines in which</td>
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*We joined the AAMC VSAS in 2014 and no longer rotate foreign students*
Letters of evaluation (Dean’s Letters) were written for each of the 73 seniors who graduated in May, 2016. Students applied to 2863 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Seventy-three (73) students matched for residency positions. Sixty-seven (67) of the May graduates used the NRMP as their primary means of obtaining residency and six (6) graduates participated in a specialty match.

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*We joined the AAMC VSAS in 2014 and no longer rotate foreign students
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Seventy-three seniors received the Doctor of Medicine degree at Commencement on May 7, 2016. On the evening of May 6, the College held its forty-first Honors Convocation, which took place in the Mitchell Center. Dr. Charles B. Rodning addressed the class and William A. Cutchen responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award – Richard Lee Pearlman
Merck Award – Ryan James Dewitz and Gavin Tanner Reed
Glasgow-Rubin Achievement Citations – Madelyn Boqué King and Katherine Leigh Richards
Leonard Tow Humanism in Medicine Award – Patty Wang and Haley Ballard, M.D.
Medical Alumni Leadership Award – Dheepa Rachel Sekar
Proassurance Award – M. Caitlin Brown Marshall
Community Service Award – Olivia Amanda Butters and Paul William Hixon
SNMA Leadership Award – Anna Lauren Crutchfield
Outstanding Student in the Pre-clerkship Curriculum – Richard Lee Pearlman
Award for Excellence in the Interprofessional Education and Collaborative Practice – Sarah Ellen Boyd and Sarita Arvind Wagle
Hollis J. Wiseman Award for Excellence in Pediatrics – Rebekah Ann Frazier
Samuel Eichold Award – M. Caitlin Brown Marshall
The Meyer/Anderson Orthopaedic Excellence Award – Michael Wesley Honeycutt
John W. Donald Memorial Award in Surgery – Michael Wesley Honeycutt
H. C. Mullins, M.D. Award – Gabrielle Lane Hood
Obstetrics/Gynecology Award – Brittany Elizabeth Swartout
Excellence in Emergency Medicine Award – Aaron Kyle Rasmussen and James Mark Shockley
American Academy of Neurology (AAN) Award – Jarret Alan Curtis
Excellence in Psychiatry Award – Lindsey Alexandria Stewart
Samuel J. Strada Pharmacology Achievement Award - Michael Wesley Honeycutt

University of South Alabama Seniors
Residencies Received by State

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# Grade Distribution 2015 - 2016 Academic Year

## Freshman Courses

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## Sophomore Courses

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# Academic Progress of Medical Students

Source: Part II of LCME Annual Medical School Questionnaire

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142
United States Medical Licensure Examination (USMLE) Step 1
First Time Takers

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<td>72</td>
<td>73</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>224</td>
<td>227</td>
<td>228</td>
<td>229</td>
<td>229</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>218</td>
<td>226</td>
<td>224</td>
<td>230</td>
<td>229</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>6%</td>
<td>5%</td>
<td>4%</td>
<td>4%</td>
<td>5%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>8%</td>
<td>3%</td>
<td>7%</td>
<td>3%</td>
<td>4%</td>
</tr>
</tbody>
</table>


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

<table>
<thead>
<tr>
<th>Year</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
<th>2015</th>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>77</td>
<td>73</td>
<td>65</td>
<td>76</td>
<td>71</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>237</td>
<td>238</td>
<td>240</td>
<td>240</td>
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<tr>
<td>USACOM Overall Mean</td>
<td>234</td>
<td>233</td>
<td>242</td>
<td>242</td>
<td>246</td>
</tr>
<tr>
<td>Failure Rate – National</td>
<td>2%</td>
<td>2%</td>
<td>3%</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td>Failures at USA</td>
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<td>3%</td>
<td>4%</td>
<td>3%</td>
</tr>
</tbody>
</table>

Minimum passing score = 170 for Class of 1997-2000; 174 beginning with the Class of 2001; 182 beginning with the Class of 2004; 184 beginning with the Class of 2008; 189 beginning with the Class of 2011; 209 beginning with the Class of 2014

United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th>Year</th>
<th>Class of 2009</th>
<th>Class of 2010</th>
<th>Class of 2011</th>
<th>Class of 2012</th>
<th>Class of 2013</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Percentage Passing</td>
<td>96</td>
<td>97</td>
<td>97</td>
<td>97</td>
<td>98</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>98</td>
<td>92</td>
<td>96</td>
<td>93</td>
<td>97</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>61 (a)</td>
<td>65 (b)</td>
<td>68 (c)</td>
<td>67</td>
<td>66</td>
</tr>
</tbody>
</table>

(a) 63/63 students had taken Step 3 as of 6/14
(b) 65/66 students had taken Step 3 as of 6/14
(c) 68/69 students had taken Step 3 as of 6/14
Evaluation of Student Performance
in the First Postgraduate Year*

The questionnaire adopted by the Curriculum Committee in 1990-91 for assessment of graduates of the College of Medicine was sent to the Directors of the PGY-1 programs of our 2015 graduates. A total of 43 responses were received out of 74 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 2012</th>
<th>Class of 2013</th>
<th>Class of 2014</th>
<th>Class of 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medical Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>23%</td>
<td>13%</td>
<td>36%</td>
<td>21%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>29%</td>
<td>35%</td>
<td>38%</td>
<td>54%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>38%</td>
<td>40%</td>
<td>18%</td>
<td>23%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>10%</td>
<td>10%</td>
<td>8%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Data Collection</strong></td>
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<tr>
<td>Top Fifth</td>
<td>26%</td>
<td>13%</td>
<td>39%</td>
<td>14%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
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<td>48%</td>
<td>34%</td>
<td>63%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>29%</td>
<td>35%</td>
<td>23%</td>
<td>21%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>3%</td>
<td>2%</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
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<td>2%</td>
<td>2%</td>
<td>0%</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>
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<td>15%</td>
<td>39%</td>
<td>16%</td>
</tr>
<tr>
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<td>19%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
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<td>5%</td>
<td>8%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0</td>
<td>2%</td>
<td>2%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Professional Attitudes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>47%</td>
<td>43%</td>
<td>46%</td>
<td>28%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>29%</td>
<td>27%</td>
<td>39%</td>
<td>60%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>17%</td>
<td>23%</td>
<td>10%</td>
<td>7%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
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<td>5%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

*Evaluated by Residency Program Director and/or Faculty
Curriculum Committee

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, quality assurance of curriculum delivery, and assurance that curricular problems are effectively addressed. The Committee was chaired by Tony Gard, PhD.

Meeting the first and third Wednesdays of the month, the Committee acted on recommendations from subcommittees and provided a forum for thought sessions presenting new initiatives for the College, national trends in medical education, and evolving accreditation standards.

In 2015-2016, an eighth standing subcommittee, Clinical Skills, was created. Subcommittees met monthly or quarterly to perform the major workload of the parent Committee. The subcommittees and their chairs included:

- Assessment and Evaluation (Tony Gard, PhD)
- Clerkship Directors (TJ Hundley, MD)
- Clinical Skills (Christen Altermatt, MD)
- Curriculum Integration (Jeff Sosnowski, MD, PhD)
- Faculty Development (Benjamin Estrada, MD)
- Fourth Year (Benjamin Estrada, MD)
- Module Directors (Abu Al-Mehdi, MD, PhD)
- Student (Leith Bayazid M2)

**Focus on Evidence-Based Medicine**
At the recommendation of the Clerkship Directors subcommittee, the parent Committee oversaw the development and implementation of an enhanced, evidence-based medicine (EBM) thread. This innovative approach includes early introduction to early EBM concepts during the M1-M2 years, with the point-of-care application incorporated across clerkships during the M3 year. Significant M3 year enhancements integrate EBM with patient care and patient safety objectives previously established within the curriculum.

**Enhanced Horizontal Integration of the Pre-Clerkship Module Sequence**
As part of the Committee’s charge for periodic review of curriculum integration during pre-clerkship training, revisions to the module sequence for 2016-2017 were approved. For M1 students, the sequence is FHH1>FHH2>BCS>CVR>URN. Coursework will begin with two sequential Foundations of Human Health (FHH) modules. The FHH1 module has been revised from previous iterations by removing most of the introduction to the autonomic nervous system for delivery later in the M1 fall semester. The new FHH2 module incorporates both the former Infectious Disease & Host Defense module, and former Biostatistics in Medicine module. The Committee approved the new Basic Concepts in Human Structure (BCS) module, replacing the former Musculoskeletal System (MSK) module previously given in the M2 year, excluding the content on head and neck. Integrated within the anatomical emphasis of BCS module is the content on autonomic function and pharmacology formerly delivered in FHH1. The sequence is completed with the Cardiovascular System (CVR) and Urinary System (URN) modules. For M2 students the approved 2016-2017 sequence is ENT>RES>DIG>ENR>NSB. Content for head and neck, formerly taught in MSK, will
be delivered in the newly approved Eye, Nose and Throat (ENT) module, which precedes the Respiratory System (RES) and Digestive System (DIG) modules. The M2 year finishes with the Endocrinology and Reproductive System (ENR) and Neuroscience and Behavior (NSB) modules.

Piloting Entrustable Professional Activities
In keeping with the Committee’s action plan to incorporate an EPA assessment program into the UME curriculum, Dr. TJ Hundley was approved to pilot this initiative within the Internal Medicine clerkship for 2016-2017. The pilot is designed to integrate EPA’s within the pre-existing framework of the Competency-Based Evaluation currently in practice.

Professional Behaviors Initiative Enhances the Learner Environment
To affirm the College’s responsibility to create, support and facilitate an optimal learning environment for medical student education, the Curriculum Committee, working in collaboration with the Graduate Medical Education Council, launched a Professional Behaviors (PROBE) initiative in November to redesign the process by which student mistreatment is monitored, reported and corrected. Five working groups consisting of clinical and basic science faculty members, students, medical administrators, residents and hospital administrators were established to develop plans of action during the spring of 2016 for implementation in the 2016-2017 clerkship cycle. The Detection and Information Group optimized student evaluation tools used to monitor and positive and negative professional behaviors and developed a process to relay this information effectively for centralized oversight. The Education Group developed a comprehensive strategy to train faculty and residents about the consequences of negative behaviors for students and the College, and new educational approaches to enhance the learning environment across the UME-GME continuum. A student survey was conducted to identify the most common sources of alleged mistreatment across clerkships, where most incidents occur, in order to focus faculty and resident development where needed. The Reporting Group designed a centralized process for students to communicate incidents of unprofessional behaviors without fear of reprisal and losing anonymity. The Investigation Group defined a process by which allegations of unprofessional behavior are addressed and remediated. The Office of Student Affairs has assumed oversight of the approved plan.

Process for Annual Review of Clerkship Performance
The Committee established a process for annual review of third-year clerkships. During the fall semester, the Assessment and Evaluation Subcommittee completed the first cycle of annual performance reviews, beginning with the 2014-2015 year. The standardized review process is based on a written assessment of strengths and weaknesses provided by the clerkship director, student evaluations of clerkship, national outcome measures of performance, the Competency-Based Evaluation of students, AAMC-GQ data, and compliance with LCME accreditation elements. Summary reports of strengths and recommended improvements were presented to the parent Committee for review and approval.

To ensure that Committee-approved changes are incorporated for the following clerkship year, the Curriculum Integration Subcommittee completed the review cycle with each clerkship director to develop a revised plan for parent Committee approval and central oversight. This review process parallels that already in place for pre-clerkship modules.
Nutrition in Medicine Initiatives
To enhance education in nutrition science, a series of online nutrition modules recommended by the Module Directors subcommittee was approved for incorporation into the pre-clerkship curriculum in 2016-2017. Dr. Michael Finan, Director of the Mitchell Cancer Institute, presented a thought session to the Committee on cooking in medicine as it relates to nutrition education for medical students and the physician’s vital role in promoting healthy lifestyles. The Committee approved an extension of nutrition instruction across the UME continuum with a goal of developing a 4th year elective on cooking in medicine as the MCI program to promote healthy lifestyles becomes fully implemented and resources for student support are identified.

Implementation of Search Tool for a Virtual USA Curriculum Library
To identify delivered content, gaps and redundancies within the vertically integrated UME curriculum, the Committee approved implementation of the iSeek™ search engine into the online Sakai course management system. This program enables student and faculty users to conduct granular searches for specific content across the USACOM curriculum, and identifies all past courses and presentations pertinent to search terms. Search results allow the user to have direct access to past presentations down to the level of relevant powerpoint slides and full video capture. Analytics for administrative and faculty review allow aggregate student performance on summative assessments to determine in learners are achieving course objectives.

Faculty Development Initiatives
During the 2015-2016 academic year, the COM in collaboration with the AAMC initiated the Teaching for Quality Program (Te4Q) aimed at enhancing faculty involvement in quality improvement activities within different domains of medical education. This effort has been instrumental in the integration of the educational mission across the continuum within the UME and GME programs as well as the health care system.

A significant level of collaboration in a variety of faculty development activities was established with the University of South Alabama QEP program. This collaborative effort has resulted in the training and certification of COM faculty members in Team-Based Learning. These efforts have also resulted in the development of educational scholarship by COM faculty members with local, national and international impact. The COM involvement in faculty development within the QEP is also evident by the participation of members of the Division of Medical Education in the QEP advisory council.

Competency Mapping of Fourth Year Electives
In partial fulfillment of our action plan submitted to the LCME, the Fourth Year Subcommittee completed the mapping of learning objectives for senior electives across the six core ACGME competencies.

Expansion of the Pre-clerkship Clinical Skills Curriculum
Training in clinical skills across the pre-clerkship module sequence was reconfigured into a developmental curriculum. Four independent, semester-long Clinical Skills courses, each culminating with a summative OSCE, were launched and topically coordinated with the M1 and M2 module sequence. Spearheaded by the Clinical Skills subcommittee, a pre-clerkship competency-
based evaluation and enhanced student process was implemented for pre-clerkship students for 2016-2017.

The Committee approved a merger of the former M1-M2 Longitudinal Experience in Ambulatory Practice (LEAP) with the four-semester Clinical Skills course sequence into the newly named CLINIC course (Clinically Integrated Introductory Course). A highlight of the new program is the opportunity for M2 students to preview two clerkships of choice during the fall and spring semesters. An objectives-based passbook was approved for M2 students to complete during this experience.

**Standardized Test Scores Reflect Curriculum Renewal**

USMLE scores continue to reflect excellence of the UME program. The mean STEP 2CK score for the graduating Class of 2016 (242), the first to complete the revised curriculum, extended a pattern of upward trending and topped the national average (240). Consistent with 2CK performance, mean scores on NBME shelf exams for all seven clerkships in 2015-2016 exceeded national norms, ranging from the 59th to 78th percentile. The mean student pass rate for first-time USA takers of STEP2 CS matched the national mean of 97%. With final results released by the NBME in March 2016, the mean STEP1 score for first-time USA takers in 2015 matched the national average (229).
Executive Committee of Student Assembly

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The officers for 2015-2016 were President – Emily Spurlin; Vice President – Abby Rowland; and Secretary/Treasurer – Jacob Thomas. The Faculty Advisors were Dr. Susan LeDoux, Dr. Kelly Roveda, and Dr. Haley Ballard.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) Honors Convocation was held on May 6, 2016, and Graduation on May 7, 2016, both at the Mitchell Center.

2) White Coat Ceremony for the Class of 2018 was held on June 19, 2016, at the Mitchell Center.

3) Volunteer opportunities for M1s-M4s at the University of South Alabama Student-Run Free Clinic were discussed and contact information about how to get involved was distributed.

4) USA Student-Run Free Clinic Ribbon Cutting Ceremony was held Saturday, October 10, 2015, at 15 Place.

5) The Halloween party was held on October 23, 2015, at The Bar. Student Assembly contributed $200 for this event.

6) The Christmas party was held on December 4, 2015, at Pat’s Bar. The theme: “Get Tachy.” Student Assembly contributed $200.

7) Student Assembly was registered with the USA Student Activities in hopes of qualifying for SGA funding in the coming years.

8) Brandon Newsome represented the College of Medicine on SGA as a senator.


10) Match Day was held on March 18, 2016, at the Mobile Convention Center.

11) Gumbo Chili Cook-Off took place on Saturday, April 2, 2016, at 10:30 a.m. at Ladd Peoples Stadium during the Spring Jags football game. The Gumbo Chili Showdown has not been held since 2013, so students are very proud that the Showdown is back. This year’s event raised more than $12,000 for the Regan Robinson Young Scholarship.

12) The Asclepian Ball was held on Friday, April 8, 2016, at the Mobile Carnival Museum. Student Assembly contributed $400 for this event.
13) Senior Skit Night was held on Friday, April 22, 2016, at the Battle House Ballroom. Student Assembly contributed $3,000.

14) Student subcommittees of Student Affairs were formed to address diversity and inclusion, student wellness, student indebtedness, and academic counseling and mentoring.

15) Grant Willis and Parker Mullen proposed and implemented a project to start an annual M3 case report symposium in which M3 students could present an interesting, unique, or personally meaningful case from one of their clerkships in the form of a poster presentation to an audience of peers and faculty. This event was held on June 24, 2016, and Student Assembly contributed $500 to cover refreshments.

16) New Student Assembly officers elected in April, 2016, for 2016-2017. The transitional meeting will take place in May, 2016. President – Alex Wiles; Vice President – David Rizk; Secretary/Treasurer – Daniel Johnson.
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, 2015, through July 31, 2016, one (1) emergency loan was approved for a total amount of $500.00. During that period, three (3) payments totaling $1,500.00 were paid back into the loan account.
The summer of 2016 marked the 30th year of the BEAR/DREAM Pipeline Program. It also was the second summer of the new focus of DREAM on preparing both Phase I and Phase II students for the reformed MCAT (2015). Nine students entered Phase I of DREAM and eight returned to Phase II of this year’s program which began on June 6, 2016, and concluded seven weeks later on July 22, 2016.

Per guidance from the Association of American Medical Colleges, the MCAT study curriculum covered the four broad areas which assess competency in 10 Fundamental Concepts that all entering medical students are expected to possess. Phase I students worked on Concepts 1-5 which covered the MCAT courses of biology, chemistry, physics, organic chemistry, and Critical Analysis and Reading Skills. Phase II students studied Concepts 6-10 which covered Sociological and Psychological Concepts and Behaviors, and the new addition of biochemistry.

The program utilized the Khan Academy MCAT preparation website with 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 resource in training the DREAM students along with the latest edition of the Exam Crackers-MCAT Complete Preparation Package.

Five rising COM II students and three USA professors were responsible for DREAM instruction. COM faculty facilitated clinical case studies of health and socio-cultural issues prevalent in minority populations. On Friday afternoons, a medical seminar was presented by prominent local minority physicians from the community and physicians of the USA faculty. A neighboring local college professor of diversity, sociology and psychology taught the Phase II students in MCAT psychological and sociological fundamentals. 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 at the end of the program. Practice Test scores ranged from 481 to 500. All Phase II students successfully completed the second summer of the program.

Six of the nine students in Phase I successfully completed the program and are eligible to return in the summer of 2017. Four of the five students who successfully completed DREAM last year enrolled in USA COM. One enrolled in the University of North Carolina at Chapel Hill College of Medicine.

Eight of the eleven Phase I students completed the program with scores of 80% or higher. One 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 given a conditional admittance because of the two discretionary points allowed to students in the program.

**PHASE I**
The composition of the 2016 Phase I class of DREAM students was nine (9) students; five (5) females and four (4) males representing five (5) colleges and universities:
These participants were natives of:

- Alabama 6
- Louisiana 2
- Missouri 1

The entering Grade Point Averages of the Phase I participants ranged from 3.0 to 3.8 and ACT scores ranged from 22 to 27. Their final DREAM grades ranged from 70% - 90% and their practice MCAT scores ranged from 476 – 488.

**Phase II**

Eight (8) students returned to participate in Phase II. They were natives of Alabama (5), Mississippi (2), and Jamaica (1), and represented five (5) higher education institutions:

- Alabama State 1
- Stillman College 1
- Univ. of South Alabama 4
- Tuskegee University 1
- Univ. of West Alabama 1

The entering Grade Point Averages of Phase II participants ranged from 3.5 to 4.0 overall. Their final DREAM grades were 80% - 93%. The practice MCAT scores ranged from 481 – 500.

**Admission/Graduation**

In August of 2016, four (4) African-American DREAM students of five (5) entered the first year USA medical school class. One Native-American student attended UNC-Chapel Hill. Six (6) African-American students graduated in 2016, and four of the six entered our medical school through the DREAM program representing the University of South Alabama (1), Auburn (1), Alabama A&M (1), and Mississippi University for Women (1); and the states of Alabama (2) and Mississippi (2).

**2015-2016 Recruitment**

Recruitment visits to undergraduate institutions began during the month of September in 2015 and ended in January, 2016. Students were informed and advised at all levels along the educational pathway during these visits. In 2015, visits were made to 11 colleges and universities in Alabama and contiguous states.
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 8, 2016, opened June 1 and closed November 15, 2015.

For the Class of 2020, one thousand five hundred twenty-five (1525) applications were received. Four hundred seventy-two (472) applications were received from Alabama residents, nine hundred fifty-nine (959) applications from out of state U.S. citizens, including fifty-nine (59) from adjacent service area counties in Mississippi and Florida, and ninety-four (94) applications from citizens of foreign countries. The Admissions Committee interviewed a total of two hundred fifteen (215) applicants of which two hundred one (201) were residents of Alabama. Of the applicants interviewed, one hundred fifty-five (155) were offered admission to fill a class of seventy-four (74). Sixty-nine (69) of the matriculating students are Alabama residents and three (3) are from our service area counties. Seventeen (17) offers of admission were made to black applicants, nine (9) have matriculated. Four (4) 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 (1525 in 2016 vs. 1491 in 2015); there was also an increase in the number of Alabama applicants (472 in 2016 vs. 435 in 2015). Table I gives comparative data since 2013.

The matriculating Class of 2016 represents twenty-seven (27) colleges and universities from the United States. Sixty-four percent (64%) of this year’s class, however, come from the four (4) largest universities in the state.

Recruitment and Retention Efforts

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

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

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

4. Informative health career related programs were organized and conducted upon request form 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 two hundred fifteen (215) candidates; each interviewee was interviewed by three committee members, giving a total of Six hundred forty-five (645) interviews.

8. The following Admissions Committee subcommittees were active in 2015-2016:
   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 I. University of South Alabama College of Medicine Admissions Report

<table>
<thead>
<tr>
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<th>2015</th>
<th>2016</th>
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<td>1491</td>
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<td>Alabama</td>
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<td>472</td>
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<tr>
<td>Service Areas (FL &amp; MS)</td>
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<tr>
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<td>191</td>
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<td>205</td>
</tr>
<tr>
<td>Out-of-State Female</td>
<td>472</td>
<td>421</td>
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<td>485</td>
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<tr>
<td>Alabama Rural</td>
<td>88</td>
<td>66</td>
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<td>82</td>
</tr>
<tr>
<td>Alabama Black</td>
<td>62</td>
<td>52</td>
<td>56</td>
<td>59</td>
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<tr>
<td>Out-of-State Black</td>
<td>67</td>
<td>144</td>
<td>83</td>
<td>90</td>
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<tr>
<td><strong>Total Applicants Interviewed</strong></td>
<td>230</td>
<td>222</td>
<td>197</td>
<td>215</td>
</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>208</td>
<td>211</td>
<td>183</td>
<td>201</td>
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<tr>
<td>Out-of-State</td>
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<td>4</td>
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<td>Service Areas (FL &amp; MS)</td>
<td>9</td>
<td>6</td>
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<tr>
<td>Female</td>
<td>92</td>
<td>86</td>
<td>79</td>
<td>92</td>
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<tr>
<td>Rural</td>
<td>34</td>
<td>33</td>
<td>32</td>
<td>40</td>
</tr>
<tr>
<td>Black (excludes DREAM)</td>
<td>18</td>
<td>13</td>
<td>17</td>
<td>18</td>
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<tr>
<td>Other Underrepresented Minority</td>
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<td><strong>Total Applicants Accepted</strong></td>
<td>155</td>
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<tr>
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<tr>
<td>Service Areas (FL &amp; MS)</td>
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<td>5</td>
<td>7</td>
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<tr>
<td>Female</td>
<td>64</td>
<td>64</td>
<td>71</td>
<td>72</td>
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<td>16</td>
<td>16</td>
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<td>Black Regular Admissions</td>
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<td>11</td>
<td>12</td>
<td>13</td>
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<tr>
<td>DREAM Program</td>
<td>4</td>
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<td>4</td>
<td>4</td>
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<tr>
<td>Other Underrepresented Minority</td>
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<td>3</td>
<td>9</td>
<td>10</td>
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<tr>
<td><strong>Total Matriculants</strong></td>
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<td>75</td>
<td>74</td>
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<tr>
<td>Average MCAT</td>
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<td>30</td>
<td>30</td>
<td>77% = 30</td>
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<tr>
<td>Average GPA</td>
<td>3.7</td>
<td>3.7</td>
<td>3.8</td>
<td>3.75</td>
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<tr>
<td>Residence:</td>
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<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>67</td>
<td>71</td>
<td>66</td>
<td>69</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>2</td>
<td>2</td>
<td>4</td>
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</tr>
<tr>
<td>Female</td>
<td>27</td>
<td>33</td>
<td>28</td>
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<tr>
<td>Rural</td>
<td>12</td>
<td>10</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>Total Black</td>
<td>7</td>
<td>8</td>
<td>8</td>
<td>9</td>
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<tr>
<td>Black Regular Admissions</td>
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<td>5</td>
<td>5</td>
<td>5</td>
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<tr>
<td>DREAM Program</td>
<td>2</td>
<td>3</td>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>Other Underrepresented Minority</td>
<td>4</td>
<td>2</td>
<td>3</td>
<td>2</td>
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</tbody>
</table>
The Office of Continuing Medical Education (OCME) has provided numerous activities that addressed the continual practice gaps of all healthcare providers. We continue to be Accredited with Commendation through the Accreditation Council of Continuing Medical Education.

The OCME collaborated with allied health, United Way, Housing First, and many other outside agencies during 2016 in an effort to address the needs of our homeless population. Project Homeless Connect coordinated over 400 volunteers, most from the University of South Alabama College of Medicine, Allied Health, and Arts & Sciences (Social Work). Volunteers addressed the medical needs through assessment and referrals.

During 2015-2016, the OCME coordinated CME activities provided by the clinical departments and outside agencies. There were approximately 1,354 regularly scheduled series (Grand Rounds) activities and 139 conferences, all combining for 4,965.55 CME credits. In total, 12,036 physicians and 13,482 non-physician’s credits were awarded. Additionally, 139 jointly provided activities with the following outside agencies (Providence Hospital, Providence Foundation, Springhill Medical Center, Gulf Coast Patient Care Network, Alabama Academy of Radiology, Coastal Trauma Care Region, and the Veterans Administration) were supported by the Office of CME.

**Significant CME Achievements**
- Sharrie Cranford named editor for Society for Academic Continuing Medical Education tri-annual newsletter INTERCOM

**CME Plans for 2016-2017**
- Integrate ACCME new accreditation criteria
- Revise mission statement
- Create a five-year strategic plan
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 GMEC. The ACGME charges the GMEC with monitoring and advising on all aspects of residency education including compliance with ACGME requirements and creating a strong and supportive learning environment for the trainees. The GMEC is composed of program directors, teaching faculty, peer-selected residents and designated representatives of the major teaching hospitals. The GMEC is responsible for reviewing current issues facing residency and fellowship programs as well as 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 Vice President for Medical Affairs/Dean of the College of Medicine.

II. Overview of GME Programs and Accreditation

As detailed below, University of South Alabama Health sponsors 11 residency and 7 fellowship programs with a combined total of 258 training positions. During the 2015 – 2016 academic year, all residency positions were filled through the Nation Residency Matching Program (NRMP) with 257 physicians completing training during the 2015 – 2016 academic year. With the addition of the Sports Medicine fellowship to the Family Medicine program, the USA Sports Medicine fellowship was voluntarily withdrawn.

Residency Programs

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Program Director</th>
<th>Program Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diagnostic Radiology</td>
<td>Samuel McQuiston, M.D.</td>
<td>Avery Robinson</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>Ehab Molohkia, M.D.</td>
<td>Stacey Hartman</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>Errol Crook, M.D.</td>
<td>Cindy Lawrence</td>
</tr>
<tr>
<td>Internal Medicine/Pediatrics</td>
<td>Grace Hundely, M.D.</td>
<td>Rita Harper</td>
</tr>
<tr>
<td>Neurology</td>
<td>Juan Ochoa, M.D.</td>
<td>Caroline Kuehling</td>
</tr>
<tr>
<td>Obstetrics &amp; Gynecology</td>
<td>Craig Sherman, M.D.</td>
<td>Carol Johns</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>Albert Pearsall, M.D.</td>
<td>Rhonda Smith</td>
</tr>
<tr>
<td>Pathology</td>
<td>Andrea Kahn, M.D.</td>
<td>Kathy Cannon</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>Franklin Trimm, M.D.</td>
<td>Rita Harper</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>Luke Engeriser, M.D.</td>
<td>Allison Britt</td>
</tr>
<tr>
<td>Surgery</td>
<td>Jon Simmons, M.D.</td>
<td>Dorothy Dickenson</td>
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</table>
Fellowship Programs

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Program Director</th>
<th>Program Coordinator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Children’s &amp; Adolescent Psychiatry</td>
<td>Ed Finn, M.D.</td>
<td>Allison Britt</td>
</tr>
<tr>
<td>Cardiovascular Disease</td>
<td>Bassam Omar, M.D.</td>
<td>Kimberly Wilson</td>
</tr>
<tr>
<td>Clinical Neurophysiology</td>
<td>Juan Ochoa, M.D.</td>
<td>Caroline Kuehling</td>
</tr>
<tr>
<td>Gastroenterology</td>
<td>Jack Di Palma, M.D.</td>
<td>Tonya Beachum</td>
</tr>
<tr>
<td>Pulmonary Disease &amp; Critical Care Medicine</td>
<td>Brian Fouty, M.D.</td>
<td>Lauren Portis</td>
</tr>
<tr>
<td>Sports Medicine (FM) - USA</td>
<td>Michael Linder, M.D.</td>
<td>Stacey Hartman</td>
</tr>
<tr>
<td>Sports Medicine (FM) - Andrews</td>
<td>Josh Hackel, M.D.</td>
<td>Leah Johnsey</td>
</tr>
<tr>
<td>Surgery Critical Care</td>
<td>Sidney Brevard, M.D.</td>
<td>Dorothy Dickenson</td>
</tr>
</tbody>
</table>

ACGME Accreditation

USA Health has maintained full accreditation as a sponsoring institution by the ACGME with its most recent renewal of accreditation on October 17, 2012, and institutional self-study due on approximately October 1, 2026.

No ACGME site visits occurred during the 2015 – 2016 academic year. Including the newly accredited fellowship programs, all programs are fully accredited by the ACGME. The Internal Medicine Residency Program and its associated fellowships in Cardiovascular Disease, Gastroenterology, and Pulmonary Disease & Critical Care completed their self-study with the anticipation of an ACGME site visit in mid-2017.

The annual ACGME online survey was completed by 96% of residents and fellows and 82% of faculty. Results on all ACGME Resident and Faculty Surveys consistently placed GME training programs at or above the national averages in compliance.

Residency Programs

<table>
<thead>
<tr>
<th>Program Name</th>
<th>Training Positions</th>
<th>Accreditation Status</th>
<th>Self-Study Date</th>
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<tbody>
<tr>
<td>Diagnostic Radiology</td>
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<tr>
<td>Internal Medicine</td>
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<td>Internal Medicine/Pediatrics</td>
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<td>10/01/2022</td>
</tr>
<tr>
<td>Neurology</td>
<td>7</td>
<td>Continued Accreditation</td>
<td>08/01/2023</td>
</tr>
<tr>
<td>Obstetrics &amp; Gynecology</td>
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<td>Continued Accreditation</td>
<td>06/01/2018</td>
</tr>
<tr>
<td>Orthopedic Surgery</td>
<td>15</td>
<td>Continued Accreditation</td>
<td>01/01/2025</td>
</tr>
<tr>
<td>Pathology</td>
<td>15</td>
<td>Continued Accreditation</td>
<td>04/01/2017</td>
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<tr>
<td>Pediatrics</td>
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<tr>
<td>Psychiatry</td>
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<td>10/01/2021</td>
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<tr>
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<td>29</td>
<td>Continued Accreditation</td>
<td>02/01/2019</td>
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Fellowship Programs

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<th>Program Name</th>
<th>Training Positions</th>
<th>Accreditation Status</th>
<th>Self-Study Date</th>
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</thead>
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<tr>
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<td>4</td>
<td>Continued Accreditation</td>
<td>10/01/2015</td>
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<td>05/01/2016</td>
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<td>Clinical Neurophysiology</td>
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<td>08/01/2023</td>
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<tr>
<td>Gastroenterology</td>
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<td>05/01/2016</td>
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<td>05/01/2016</td>
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<tr>
<td>Sports Medicine (FM) - USA</td>
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<td>Surgery Critical Care</td>
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<td>Continued Accreditation</td>
<td>11/01/2015</td>
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</tbody>
</table>

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).

Clinical Learning Environment Review (CLER)

The Clinical Learning Environment Review (CLER) site visit was completed in July 2014 at the University of South Alabama Medical Center campus. The GME Office received the final report from the CLER site team in August 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. The CLER program foci are as follows:

- Patient Safety
- Health Care Quality
- Care Transitions
- Supervision
- Duty Hours/Fatigue Management and Mitigation (Physician Well Being)
- Professionalism

Based on the results of the CLER site visit, the USA Office of Graduate Medical Education coordinated the Teaching for Quality Program at USA as detailed below.

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.
Patient Safety & Quality Improvement Programs

USA Health uses the framework of the Institute for Healthcare Improvement (IHI) for quality and performance projects. Education in patient safety and quality improvement science is provided through the IHI modules, modules from the Introduction to the Practice of Medicine, team-based learning activities and other educational resources. At orientation 80 new housestaff were introduced to patient safety and quality improvement programs within USA Hospitals and associated healthcare settings. Residents gain experience in promoting patient safety and quality improvement by engaging in projects guided by their GME programs.

The USA Office of Graduate Medical Education hosted the Teaching for Quality Workshop (Te4Q), a faculty development program of the Association of American Medical Colleges (AAMC), on September 11 – 12, 2016. The purpose of the program at USA Health was to facilitate the development of interdisciplinary/interprofessional quality improvement educational project teams with the purpose of teaching quality improvement techniques. In preparation, the participants completed independent learning through the Institute for Healthcare Improvement modules.

Participants included 35 faculty physicians and basic sciences faculty as well as hospital administration and quality improvement staff from USA Medical Center (USAMC) and USA Children's & Women's Hospital (USACW). The meeting was held at the USA Biomedical Library with over 97 percent attendance of anticipated faculty participants and resulted in development of five educator teams. On March 2, 2016, the five teams presented their projects, which included a USAMC-based project with the goal of integration of residents into USA Health patient safety and quality improvement processes and a USACW-based project to employ standardized methods across USA Health for all transitions in patient care.

Transitions in Patient Care and Supervision of Residents and Fellows

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. As described above, a USACW-based project was developed as the prototype to employ common methods across USA Health for all transitions in patient care.

Resident and Fellows Physician Well Being

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. During the 2015 – 2016 academic year duty hour disparities represented less than 0.03% of over 90,000 reported workdays.

Faculty and Resident Professional Development

During the 2015 – 2016 academic year, the USA Office of Graduate Medical Education facilitated several faculty and resident development through several methods, including bringing the Teaching for Quality (Te4Q) Program to USA, engaging the Innovation in Learning Center in providing workshops for clinical faculty, and providing online resources through the Introduction to the Practice of Medicine and several SAKAI project sites. These programs provided over 680 developmental hours to faculty, fellows and residents.

Innovation in Learning Center Introduced into Departmental Grand Rounds

The USA Office of Graduate Medical Education worked with grand rounds coordinators to bring the Innovation in Learning Center staff into the clinical venues to provide faculty development for medical educators and instruction to residents as teachers. Brenda Litchfield, Ph.D., Professor, Department of Professional Studies and Director of Innovation in Learning Center, presented a workshop on learning styles with sessions were follows:

- December 3, 2015, Thursday at 8:00 AM, Internal Medicine Grand Rounds in the USAMC 2nd Floor Conference Center
- December 8, 2015, Tuesday at 12:00 PM, Radiology Grand Rounds in the USAMC Radiology Conference Room, USAMC Room 3333
- January 8, 2016, Friday at 7:00 AM, Orthopedic Surgery Grand Rounds in the Hearin-Chandler Auditorium at Mobile Infirmary
- January 14, 2016, Thursday at 5:00 PM, Psychiatry Grand Rounds at 1015 Montlimar Drive, Suite A-210 Mobile, AL 36609
- April 15, 2016, Friday at 8:00 AM, Pediatric Grand Rounds in the Atlantis Room in CWEB 1 at Children’s and Women’s Hospital

Introduction to the Practice of Medicine (IPM)

During the 2013 – 2014 academic year, the Introduction to the Practice of Medicine (IPM), a set of web-based modules from the AMA, was introduced to meet the training needs of housestaff, including patient safety, quality improvement, transitions in care, cultural competence, residents as teachers, and professionalism. During the 2015 – 2016 academic year, all residents and fellows were required to complete the IPM modules on “Sleep Deprivation”, “Residents as Teachers” and “Cultural Competence in Healthcare”.

Program Coordinators’ Professional Development

With the dramatic changes occurring in GME at USA and across the country, this meeting has become vital for the program coordinators in keeping themselves 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.

Other Activities
The USA Office of Graduate Medical Education refined the USA Faculty Development Curriculum and maintained the USA online 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 Third Annual Medical Student Summer Research Program was held on Friday, July 29, 2016, hosting over 150 attendees in the Medical Sciences Building for both oral and poster presentations. Thirty five first and second-year medical students participated in research projects with basic science and clinical faculty in the College of Medicine during the summer. A weekly seminar series introduced students to important research related topics. The program aims to highlight the relation between scientific discoveries and their application in clinical medicine.

Dr. John R. Perfect, James B. Duke Professor of Medicine and Chief of infectious Diseases, Duke University Medical Center was the keynote speaker. Dr. Perfect’s seminar was entitled, “Cryptococcosis: What is known from a 40 year journey”.

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

**ORAL PRESENTATIONS**


**Natalie Carlisle**, Rising Sophomore. Evaluation of Accuracy and Consistency Between Symptom Checkers for Diagnosis and Triage of infectious Disease-Related Symptoms. Sponsored by William K. Green, M.D. and Andrew C. Berry, D.O., Departments of Internal Medicine, Division of Infectious Disease.

**Davis Diamond**, Incoming Freshman. Targeting Cyclic-AMP Phosphodiesterases as a Therapeutic Approach for Heart Failure. Sponsored by Wito Richter Ph.D., Department of Biochemistry and Molecular Biology.

**Chase Hoffman**, Rising Sophomore. Five Dimensional Fret Measurements Reveal The Subcellular Distribution of cAMP Signals Savannah West, Naga Annamdevula. Sponsored by Thomas Rich, Ph.D., Department of Pharmacology, and Silas Leavesley, Ph.D., Department of Chemical Engineering and Center for Lung Biology.

**Travis Bedsole Goodloe, III**, Incoming Freshman. Validation of the Detection of BRAF and KRAS Mutations in Melanoma and Colorectal Cancers Using Real-Time PCR. Sponsored by Brett Baskovich, M.D., Department of Pathology.
Maelynn La, Rising Sophomore. The Association of Nonspecific T Wave Abnormalities with Ischemic Heart Disease. Sponsored by Christopher M. Malozzi, D.O. and Bassam Omar, M.D., Ph.D., Department of Internal Medicine, Division of Cardiology.

David Roveda, Jr., Rising Sophomore. Mapping the Genome Wide Landscape of Oxidative Base Damage in Hypoxia. Sponsored by Mark Gillespie, Ph.D., Department of Pharmacology.

Destini Smith, Incoming Freshman. The Effect of Health insurance Coverage and the Doctor-Patient Relationship on Health Care Utilization. Sponsored by Errol Crook, M.D. and Kenneth Hudson, Ph.D., Center for Healthy Communities.

Trevor Stevens, Rising Sophomore. Studies on the Physical Chemistry of an Endothelial Prion Cytotoxin. Sponsored by Ronald Balczon, Ph.D., Department of Biochemistry and Molecular Biology and Center for Lung Biology.

Jonathon Whitehead, Rising Sophomore. Burn-Wound Analysis in The Far Infrared. Sponsored by Jon D. Simmons, M.D. and Sidney B. Brevard, M.D., Divisions of Trauma, Burn, Acute Care Surgery and Surgery Critical Care and Cardiovascular and Thoracic Surgery, Department of Surgery.

**POSTER PRESENTATIONS**

Evan Chavers, Incoming Freshman. The Effect of the Antidiabetic Drug Metformin on Mitochondrial Dynamics. Sponsored by Abu-Bakr Al-Medhi, M.D., Ph.D., Department of Pharmacology.

Christopher Tidwell, Incoming Freshman. Comparative Analysis of GM-CSF-Specific Autoantibodies from Mice with and without Pulmonary Alveolar Proteinosis. Sponsored by Robert A. Barrington, Ph.D., Department of Microbiology and Immunology.

Michael Marfice, Incoming Freshman. Microparticle Uptake and Localization within Pulmonary Microvascular Endothelial Cells. Sponsored by Natalie Bauer, Ph.D., Department of Pharmacology.

Alexandra Van Haneghan, Rising Sophomore. Evaluation of Accuracy and Consistency Between online Symptom Checkers for Diagnosis and Triage of HIV and Hepatitis C Patients Presenting into the Emergency Room. Sponsored by William K. Green, M.D. and Andrew C. Berry, D.O., Department of Internal Medicine, Division of Infectious Disease.

Shivam Amin, Rising Sophomore. Discovery of 756 Novel, Putative Small RNAs (SRNAS) in Salmonella Enterica. Sponsored by Glen Borchert, Ph.D., Department of Pharmacology.


Chris Lasecki, Rising Sophomore. Using Geographic information Systems to Assess Intentional Injury at a Level 1 Trauma Center. Sponsored by Sidney Brevard, M.D.; Jon Simmons, M.D.; Steve Kahn, M.D.; Cindy Pritchett; Winnie Ngatha, Department of Surgery.


Crawford Cox, Rising Sophomore. Analysis of Student Performance at USA on the Surgery Clerkship NBME After Full Implementation of a Team Based Learning Curriculum. Sponsored by Leander Grimm, Jr., M.D., Department of Surgery.

Robert William Lightfoot, Rising Sophomore. Barriers Contributing To Late Stage Presentation of Breast Cancer. Sponsored by Joel E. Lightner, M.D. and Donna Lynn Dyess, M.D., Departments of Radiology and Surgery


Alex Koichi, Rising Sophomore. FAK Regulates SOCS-3 Expression Via Changes in DNA Methylation. Sponsored by Steve Lim, Ph.D., Department of Biochemistry and Molecular Biology.

Jonathan Grammer, Rising Sophomore. The Role of Caveolin-1 Interaction in The Functional Coupling of SK3 and TRPV4 Channels. Sponsored by Mike Lin, Ph.D., Department of Physiology and Cell Biology.

Seth Lamb, Incoming Freshman. Economic Factors Related To White Middle Aged Suicide. Sponsored by Hosik Min, Ph.D. and Errol Crook, M.D., Departments of Sociology, Anthropology, and Social Work, Internal Medicine and Center for Healthy Communities.
Ana D. Perry, Rising Sophomore. Clinical Activities of Pre-Clinical Medical Students in a Longitudinal Ambulatory Experience. Sponsored by Carol P. Motley, M.D., Department of Family Medicine.

Mazen Omar, Rising Sophomore. Association of Stress Test Findings with the Presence and Extent of Coronary Artery Disease in Patient with VS without Diabetes. Sponsored by Ghazanfar Qureshi, M.D.; Bassam Omar, M.D.; and Mustapha Awan, M.D., Department of Internal Medicine, Division of Cardiology.


Sana Ozair, Rising Sophomore. Retrospective Review of Outcomes for Patients with Submassive or Massive Pulmonary Embolism Receiving Pulmonary Embolectomy Versus Anticoagulation Therapy. Sponsored by Jon D. Simmons, M.D. and Sidney B. Brevard, M.D., Department of Surgery, Divisions of Trauma, Burn, Acute Care Surgery and Surgery Critical Care and Cardiovascular and Thoracic Surgery.


Ben McCormick, Incoming Freshman. OGR1 Mediates Proton-induced Signaling in the Brain. Sponsored by Xiangming Zha, Ph.D. and Walter Rusyniak, Jr., M.D., Department of Physiology and Cell Biology and Neurosurgery.

Lydia Sandy, Rising Sophomore. Lung Repair Mediated by Nanoparticle Delivery of Oligonucleotides: Effects on inflammatory Gene Expression in Experimental Asthma. Sponsored by William Gerthoffer, Ph.D., Department of Biochemistry and Molecular Biology.
The Clyde G. “Sid” Huggins Medical Student Research Awards were presented to Mr. Jonathon Whitehead, sophomore medical student, for best oral presentation entitled, “Burn-Wound Analysis in the FAR infrared.” He was sponsored by Jon D. Simmons, M.D. and Sidney B. Brevard, M.D., Divisions of Trauma, Burn, Acute Care Surgery and Surgery Critical Care and Cardiovascular and Thoracic Surgery. Mr. Connor Kimbrell, sophomore medical student, was presented best poster presentation entitled, “Depletion of Mitochondrial DNA: Impact on Mitochondrial Volume Density, Bioenergetics, and Ca2+ Signaling in Lung Microvascular Endothelium”. He was sponsored by Mary Townsley, Ph.D. and Mikhail Alexeyev, Ph.D., Department of Physiology and Cell Biology. Each winner was presented with a plaque of recognition and cash award.
Graduate Program in Basic Medical Sciences

Administration

Dr. Mark Taylor was elected as Director of Basic Medical Sciences Graduate Program in September, 2015, to serve 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 2016 Class applicants were held in February, April, and May. 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>
<th>2016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inquiries</td>
<td>53</td>
</tr>
<tr>
<td>US</td>
<td>42</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Applications</td>
<td>23</td>
</tr>
<tr>
<td>US</td>
<td>3</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Acceptances</td>
<td>7</td>
</tr>
<tr>
<td>US</td>
<td>3</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Matriculants</td>
<td>6</td>
</tr>
<tr>
<td>US</td>
<td>2</td>
</tr>
<tr>
<td>International</td>
<td></td>
</tr>
<tr>
<td>Average GRE</td>
<td>V=152; Q=151</td>
</tr>
<tr>
<td>Av. UG GPA</td>
<td>3.64</td>
</tr>
<tr>
<td>Av. GR GPA</td>
<td>4.00</td>
</tr>
</tbody>
</table>

Recruitment Activities

1. Dr. Taylor and Dr. Rich met with faculty colleagues at regional colleges and universities throughout the 2015 Fall semester. Ms. Flagge participated in the Alabama Connection Graduate Recruitment Expo and represented the graduate program on additional College Graduate Program and Career Day Expos in north Louisiana in October, 2015.
2. Students from undergraduate programs at USA attended the annual College of Medicine’s Basic Medical Sciences Graduate Forum held in December, 2015.
3. Drs. Leavesley, Rich, and Taylor participated in presentations made to USA’s Premedical Honors Society, Freshman Biomedical Sciences students and Engineering students.
Curriculum

1. The annual COM Research Forum was held on December 4, 2015. Plans are underway to hold the tenth annual COM Research Forum on November 4, 2016.

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. Prior award recipients include: 2007-2008/Cristhiaan Ochoa; 2008-2009/Abdallah Al-Zoubi; 2009-2010/Heba Khader; 2010-2011/David C. Schmitt; 2011-2012/Joshua B. Phillips; 2012-2013/Tiffany S. Anderegg Norton; 2013/2014/Sabrina C. Ramilla, and 2014/2015/Mary C. Patton. Dr. Strada, Dean Emeritus for the College of Medicine, presented the ninth annual award to Barnita Haldar during the first-year Class Orientation on August 11, 2016.

New Programs/Policies/Requirements

Attention was directed at:

a. enforcing stringent documentation of satisfactory progress between regular committee meetings.
b. extending the length of first-year student rotations from 5-week rotation periods to three orientations, averaging 9 weeks in length.
c. adopting stronger language to clarify and strictly enforce the deadline for graduate students to satisfactorily complete the qualifying exam by the end of the third year, as calculated from the respective student’s matriculation date in the program.

BMSSO—Basic Medical Sciences Student Organization

BMSSO hosted speakers to address topics about employment opportunities with industry, governmental agencies, and biotech firms. The organization also hosted the annual Charles Baugh Dawg Day during Spring Semester, 2016. A Faculty Appreciation Gathering was held in August. BMSSO officers and members participated in organizing and hosting a Welcome reception at Dr. Gerthoffer’s home for the entering 2016 Fall Class during orientation in August.

Extramural Support for Graduate Training

1. Six Basic Medical Science Graduate Students receive stipend support provided by the NIH Pre-doctoral Institutional Training Grant on “Cell Signaling and Lung Pathobiology.”

2. Two BMS Graduate Program students received extramural grant awards through American Heart Association. National conference and annual meeting travel awards were also presented to BMS Graduate Program Students during the 2015-16 academic year.

3. In September, the Dean Emeritus, Dr. Strada, will select two students to receive SJS Career Enhancement Travel Awards and present the awards for students to travel to professional conferences in the 2016-2017 academic year.

Graduates
Eleven students officially completed all requirements during the academic year (September 2015-August 2016): Courey A. Averett, Reagan Meredith Barnett, Peter Francis Favreau, Leslie Anne Hargett, Pierre Kadeba, Kevin Joseph Lee, Rebekah Lynn Morrow, Kaori Oshima, Sara Catherine Sigler, Joshua Ryan Waldrup, and Ningyong Xu.

**Courey A. Averett**  
**DISSERTATION TITLE:** Studies on the Anti-Tumor Activities of Honokiol in Pancreatic Cancer  
**MAJOR PROFESSOR:** Ajay P. Singh, Ph.D.  
**DEPARTMENT/TRACK:** Cancer Biology-Mitchell Cancer Institute  
**CURRENT POSITION:** Quality Control Editor; Research Square, Mobile, Alabama

**Reagan Meredith Barnett**  
**DISSERTATION TITLE:** The Therapeutic Role of Isothiocyanates in Mismatch Repair-Deficient Ovarian Cancer  
**MAJOR PROFESSOR:** Kumar Palle, Ph.D.  
**DEPARTMENT/TRACK:** Cancer Biology-Mitchell Cancer Institute  
**CURRENT POSITION:** Postdoctoral Fellow; MD Anderson Cancer Center, Houston, Texas

**Peter Francis Favreau**  
**DISSERTATION TITLE:** An Excitation-scanning Hyperspectral Microscope for Imaging Exogenous and Endogenous Fluorescence”  
**MAJOR PROFESSOR:** Silas F. Leavesley, Ph.D.  
**DEPARTMENT/TRACK:** Biomedical Engineering--Lung Biology  
**CURRENT POSITION:** Post-Doctoral Researcher, Morgridge Institute for Research, University of Wisconsin-Madison, Madison, Wisconsin

**Leslie Anne Hargett Blair**  
**DISSERTATION TITLE:** Microparticles from a Rat Model of Severe Pulmonary Arterial Hypertension Increase ICAM-1 Expression in Pulmonary Artery Endothelial Cells”  
**MAJOR PROFESSOR:** Natalie Bauer, Ph.D.  
**DEPARTMENT/TRACK:** Pharmacology--Lung Biology  
**CURRENT POSITION:** Cancer Registry Liaison; Zimmer Cancer Center at New Hanover Regional Medical Center, Wilmington, North Carolina

**Pierre Kadeba**  
**DISSERTATION TITLE:** Role of the Large Molecular Weight Immunophilins in Regulation of Endothelial Store-Operated Calcium Entry”  
**MAJOR PROFESSOR:** Donna L. Cioffi, Ph.D.  
**DEPARTMENT/TRACK:** Biochemistry and Molecular Biology--Lung Biology  
**CURRENT POSITION:** Unknown

**Kevin Joseph Lee**
Rebekah Lynn Morrow  
DISSERTATION TITLE: Changes in IgG Glycosylation in Pulmonary Arterial Hypertension”  
MAJOR PROFESSOR: Donna L. Cioffi, Ph.D.  
DEPARTMENT/TRACK: Biochemistry and Molecular Biology--Lung Biology  
CURRENT POSITION: Assistant Professor, Alabama College of Osteopathic Medicine, Dothan, Alabama

Kaori Oshima  
DISSERTATION TITLE: The Morphometric Analysis of Pulmonary Arterial Remodeling in Relation to Branching Patterns in Pulmonary Hypertension  
MAJOR PROFESSOR: Masahiko Oka, M.D., Ph.D.  
DEPARTMENT/TRACK: Pharmacology--Lung Biology  
CURRENT POSITION: Postdoctoral Fellow/Trainee; Department of Medicine, Division of Pulmonary Sciences and Critical Care Medicine, University of Colorado, Denver, Colorado

Sarah Catherine Sigler  
DISSERTATION TITLE: Validation of PDE5 as a Colon Cancer Target and Characterization of Novel Celecoxib Derivatives”  
MAJOR PROFESSOR: Gary Piazza, Ph.D.  
DEPARTMENT/TRACK: Cancer Biology-Mitchell Cancer Institute  
CURRENT POSITION: Postdoctoral Fellow, Mitchell Cancer Institute, Mobile, Alabama

Joshua Ryan Waldrup  
DISSERTATION TITLE: TRPV4-Mediated Relaxation of Pig Coronary Arteries is Dependent on Kca3.1 Channel Amplification of Endothelial Ca2+ Dynamics”  
MAJOR PROFESSOR: Mark S. Taylor, Ph.D.  
DEPARTMENT/TRACK: Physiology and Cell Biology--Vacular Biology  
CURRENT POSITION: Center Manager; Grifols Biomat USA, Inc., Mobile, Alabama

Ningyong Xu  
DISSERTATION TITLE: OraI1 Regulates Sodium Permeation through Store-Operated Calcium Entry Channels and Contributes to Endothelial Repair”  
MAJOR PROFESSOR: Troy Stevens, Ph.D.  
DEPARTMENT/TRACK: Physiology and Cell Biology-Lung Biology  
CURRENT POSITION: Postdoctoral Fellow; Department of Physiology and Cell Biology, University of South Alabama College of Medicine, Mobile, Alabama
Summary of Extramural Support

Funding for the 2015-2016 academic year includes $12,389,490 and $3,443,293 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

**Extramural Funds**
**Totals for Last 4 Years**
- 2013: $14,508,914
- 2014: $15,457,365
- 2015: $16,546,756
- 2016: $15,832,783

![Bar Chart: College of Medicine Total Annual Extramural Funding From All Sources](chart.png)
# EXTRAMURAL FUNDING
## (OCTOBER 1, 2015 – SEPTEMBER 30, 2016)

## 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 4 R01 HL107778-04</td>
<td>Immunophilins Regulate SOC Entry Channels in Pulmonary Endothelial Cells</td>
<td>$371,250.00</td>
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<tr>
<td>William Gerthoffer</td>
<td>AMGEN INC 2016662627</td>
<td>Production of hTERT-BSM Cell Lines</td>
<td>$70,184.00</td>
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<td>William Gerthoffer</td>
<td>NIH 1 R21 A1 6985-01A1</td>
<td>MicroRNA Regulation of Airway Remodeling and Repair in Asthma</td>
<td>$189,375.00</td>
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<tr>
<td>Steve Lim</td>
<td>AHA 16GRNT30960007</td>
<td>FAK Regulation of Vascular Smooth Muscle Cell Plasticity Via Epigenetic Control</td>
<td>$77,000.00</td>
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<tr>
<td>Richter, Wito</td>
<td>CFF RICHTE16GO</td>
<td>Targeting cAMP Signaling and Phosphodiesterase in Cystic Fibrosis</td>
<td>$108,000.00</td>
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<td>Richter, Wito</td>
<td>161RG26430061-01</td>
<td>Regulation of PDE4 in Heart Failure</td>
<td>$75,000.00</td>
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**Total** $890,809.00

## CENTER FOR DISASTER HEALTHCARE PREPAREDNESS

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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>David Wallace</td>
<td>ADPH MP2016-06-10</td>
<td>Advanced Regional Response Training Center 2017 (ARRTC Training 2017)</td>
<td>$957,544.00</td>
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<tr>
<td>David Wallace</td>
<td>ADPH C60112084 (GC-16-333)</td>
<td>Alabama Incident Management System 2017(AIMS 2017)</td>
<td>$229,456.00</td>
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**Total** $1,187,000.00
### CENTER FOR HEALTHY COMMUNITIES

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<th>Fiscal Year Funding</th>
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<tr>
<td>Errol Crook</td>
<td>NIMHD 5 P20 MD002314-10</td>
<td>Broad Based Research Collaborative on Minority Health and Health Disparities</td>
<td>$1,240,060.00</td>
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### CENTER FOR STRATEGIC HEALTH INNOVATIONS

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<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Samuel Strada</td>
<td>CMMS 9185-02</td>
<td>Alabama Medicaid Maternity Contract</td>
<td>$20,000</td>
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<td>Samuel Strada</td>
<td>CMMS 11-1529373</td>
<td>Patient Care Network/PMP Portal</td>
<td>$700,000.00</td>
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### EMERGENCY MEDICINE

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<th>Agency</th>
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<tr>
<td>Frank Pettyjohn</td>
<td>NIH PS# 107223-03</td>
<td>Cardiovascular Inflammation Reduction Trial (CIRT)</td>
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### FAMILY MEDICINE

<table>
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<tr>
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<th>Agency</th>
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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Allen Perkins</td>
<td>HRSA 1 T0BHP30027-01-00</td>
<td>Caring for the Complex Patient in the PCMH</td>
<td>$482,977.00</td>
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<tr>
<td>Allen Perkins</td>
<td>AFPRHB150457</td>
<td>A Student Curriculum in Family Medicine for the Medical Students at the Univ. of South Alabama College of Medicine</td>
<td>$60,000.00</td>
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<tr>
<td>Allen Perkins</td>
<td>AFPRHB 150462</td>
<td>A Resident Curriculum in Rural Family Medicine at the USA Family Medicine Residency Program</td>
<td>$26,000.00</td>
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<tr>
<td>Allen Perkins</td>
<td>AFPRHB 160043</td>
<td>Student Preceptorship</td>
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**Total** $598,977.00

### GRADUATE PROGRAM IN BIOMEDICAL SCIENCES

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<tr>
<td>Silas Leavesley</td>
<td>AHA 16PRE27130004-01</td>
<td>The Spatial Distribution of PDE4 Isoforms Regulates the Compartmentalized cAMP Signals in PMVECs</td>
<td>$26,000.00</td>
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<tr>
<td>Saami Yazdani</td>
<td>AHA 16PRE2735003</td>
<td>Keratose as a Novel Drug Carrier for Coated Balloons</td>
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**Total** $52,000.00
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<thead>
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<th>Principal Investigator</th>
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<th>Fiscal Year Funding</th>
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<tbody>
<tr>
<td>Ghulam Maustafa Awan</td>
<td>Bayer HealthCare Pharmaceuticals</td>
<td>An International, Multicenter, Randomized, Double-Blind, Placebo-Controlled Phase 3 Trial Investigating the Efficacy and Safety of Rivaroxaban to Reduce the Risk of Major Thrombotic Vascular Events in Patients with Symptomatic Peripheral Artery Disease Undergoing Lower Extremity Revascularization Procedures</td>
<td>$5,000.00</td>
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<tr>
<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>$12,816.00</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>$4,500.00</td>
</tr>
<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>$9,708.00</td>
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<tr>
<td>Brooks Cash</td>
<td>Prometheus</td>
<td>The Development and Validation of a Blood Test to Identify IBS: DEFINE (Diagnostic Evaluation of Functional GI and IBS Networks)</td>
<td>$9,613.14</td>
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<tr>
<td>Principal Investigator</td>
<td>Agency</td>
<td>Project Title</td>
<td>Fiscal Year Funding</td>
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<tr>
<td><strong>Brooks Cash</strong></td>
<td>Prometheus</td>
<td>Procurement of Blood and Stool from Subjects with Symptoms of Chronic Diarrhea for Use in the Development of a Gastrointestinal Disease Test</td>
<td>$9,784.95</td>
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<tr>
<td><strong>Brooks Cash</strong></td>
<td>Medtronic</td>
<td>Multicenter, Prospective, Randomized Study Comparing the Diagnostic Yield of Colon Capsule Endoscopy Versus Computed Tomographic Colonography in a Screening Population (the TOPAZ study)</td>
<td>$2,410.00</td>
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<tr>
<td><strong>Errol Crook</strong></td>
<td>NIH HSR-SSS-S 14-003667-2</td>
<td>Gulf Study Biomedical Surveillance Clinical Examination</td>
<td>$49,779.00</td>
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<tr>
<td><strong>Mike Cohen</strong></td>
<td>Boehringer-Ingelheim Pharmaceuticals</td>
<td>Gloria-AF: Global Registry on Long-term Oral Anti-thrombotic Treatment in Patients with Atrial Fibrillation</td>
<td>$2,816.51</td>
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<tr>
<td><strong>Michael Culpepper</strong></td>
<td>Otsuka Pharmaceutical</td>
<td>Multi-center, Open-label, Extension Study to Evaluate the Long-term Efficacy and Safety of Oral Tolvaptan Tablet Regimen in Subjects with Autosomal Dominant Polycystic Kidney Disease (ADPKD)</td>
<td>$27,620.00</td>
</tr>
<tr>
<td><strong>Michael Culpepper</strong></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>
<td>$3,825.00</td>
</tr>
<tr>
<td><strong>Michael Culpepper</strong></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>$14,175.00</td>
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<tr>
<td>Principal Investigator</td>
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</tr>
<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>
<td>$22,279.41</td>
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<tr>
<td>Michael Culpepper</td>
<td>Otsuka Pharmaceuticals</td>
<td>A Phase 3b, Multi-Center, Open-Label Trial to Evaluate the Long Term Safety of Titrated Immediate-Release Tolvaptan (OPC 41061, 30 mg to 120 mg/day, Split Dose) in Subjects with Autosomal Dominant Polycystic Kidney Disease</td>
<td>$50,551.71</td>
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<tr>
<td>Jack DiPalma</td>
<td>Takeda</td>
<td>Entyvio (Vedolizumab) Long-Term Safety Study</td>
<td>$3,750.00</td>
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<tr>
<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>$28,310.00</td>
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<tr>
<td>Christopher MaloZZi</td>
<td>Sanofi US Service 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>$30,765.00</td>
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<tr>
<td>Bassam Omar</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>$8,136.29</td>
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<tr>
<td>Bassam Omar</td>
<td>DalCor Pharma UK Ltd</td>
<td>A Phase III, Double-Blind, Randomized Placebo-Controlled Study to Evaluate the Effects of Dalcetrapib on Cardiovascular (CV) Risk in a Genetically Defined Population with a Recent Acute Coronary Syndrome (ACS): The dal-GenE Trial</td>
<td>$4,000.00</td>
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<tr>
<td>Reynaldo Rodriguez</td>
<td>Braintree Laboratories</td>
<td>BLI4600-201 A Pilot Evaluation of an Experimental BLI4600 Formulation for Bowel Preparation in Adult Patients Undergoing Colonoscopy</td>
<td>$76,999.70</td>
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<td>Reynaldo Rodriguez</td>
<td>Braintree Laboratories</td>
<td>BLI4600-102 An Evaluation of Gas Production Following the Administration of Bowel Preparation for Colonoscopy</td>
<td>$65,000.00</td>
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<td>Reynaldo Rodriguez</td>
<td>Braintree Laboratories</td>
<td>BLI400-302 A Safety and Efficacy Evaluation of BLI400 Laxative in Constipated Adults</td>
<td>$5,000.00</td>
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<td>John Vande Waa</td>
<td>HRSA 5 H12 HA24771-05-00</td>
<td>USA Family Specialty Clinic</td>
<td>$361,500.00</td>
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<td>John Vande Waa</td>
<td>HRSA RW-USAIF-1617</td>
<td>USA Family Specialty Clinic</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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<td>Paul Brett</td>
<td>DOD HDTRA-14-C-0023</td>
<td>Antigenically Defined Vaccines for Immunization Against Melioidosis and Glanders</td>
<td>$578,233.00</td>
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<td>Paul Brett</td>
<td>DOD HDTRA1-14-C-0023 Supplement</td>
<td>Antigenically Defined Vaccines for Immunization Against Melioidosis and Glanders</td>
<td>$25,618.00</td>
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<td>Paul Brett</td>
<td>TNPRC-Supplement</td>
<td>Melioidosis Rapid Latex Agglutination Tests</td>
<td>$62,900.00</td>
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<td>Mary Burtnick</td>
<td>DOD 160436</td>
<td>High-Affinity Monoclonal Antibodies that target Burkholderia Polysaccharides</td>
<td>$123,362.00</td>
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<td>Jarrod Fortwendel</td>
<td>NIH 5 RO1 AI106925-03</td>
<td>Fungal Ras-mediated invasive growth mechanisms</td>
<td>$303,000.00</td>
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Total $1,133,113.00

## MITCHELL CANCER INSTITUTE (SAMSF Projects Only)

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<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>
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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>$21,568.99</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>$16,884.90</td>
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<tr>
<td>David Clarkson</td>
<td>Puma Biotechnology</td>
<td>A Phase 1/2, Open-Label Study of Neratinib (HKI-272) in Combination with Capecitabine in Subjects with Solid Tumors and ErbB-2 Positive Metastatic or Locally Advanced Breast Cancer</td>
<td>$15,581.02</td>
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<td>David Clarkson</td>
<td>TG Therapeutics, Inc</td>
<td>A Multi-Center, Open-Label, Study to Evaluate the Safety and Efficacy of Ublituximab (TG-1101) in Combination with TGR-1202 for Patients Previously Enrolled in Protocol UTX-TGR-304</td>
<td>$2,500.00</td>
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<td>David Clarkson</td>
<td>TG Therapeutics, Inc</td>
<td>A Phase 3, Randomized, Study to Assess the Efficacy and Safety of Ublituximab 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>Moh’d Khushman</td>
<td>Eli Lilly</td>
<td>Safety and Effectiveness of Ramucirumab in Patients with Advanced Gastric Cancer in the European Union and North America: A Prospective Observational Registry (I4T-MC-JVDD)</td>
<td>$2,500.00</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>$16,002.51</td>
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<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>$110,878.30</td>
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<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>$2,236.50</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>$4,491.75</td>
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<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>$26,136.89</td>
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<td>Jennifer Scalici</td>
<td>AbbVie Inc</td>
<td>A Phase 3 Placebo-Controlled Study of Carboplatin/Paclitaxel With or Without Concurrent and Continuation Maintenance Veliparib (PARP Inhibitor) in Subjects With Previously Untreated Stages III or IV High Grade Serious Epithelial Ovarian, Fallopian Tube, or Primary Peritoneal Cancer</td>
<td>$13,250.00</td>
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<tr>
<td>William Taylor</td>
<td>Novartis Pharmaceuticals</td>
<td>An Open-Label, Multicenter, Phase II Study to Compare the Efficacy and Safety of RAD001 as First-Line Followed by Second-Line Sunitinib Versus Sunitinib as First-Line Followed by Second-Line RAD001 in the Treatment of Patients with Metastatic Renal Cell Carcinoma</td>
<td>$17,104.10</td>
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<td>William Taylor</td>
<td>Genentech</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>$63,144.81</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-Authorization Safety Study (PASS)</td>
<td>$3,725.00</td>
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<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>$95,187.60</td>
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William Taylor  Holzyme, Inc.  A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study of PEGylated Recombinant Human Hualuronidase (PEGPH20) in Combination with nab-Paclitaxel Plus Gemcitabine Compared with Placebo Plus nab-Paclitaxel and Gemcitabine in Subjects with Hyaluronan-High Stage IV Previously Untreated Pancreatic Ductal Adenocarcinoma  $6,500.00

Total  $436,795.37

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<tr>
<td>Paul Maertens</td>
<td>UCB Biosciences</td>
<td>Phase 3, Multicenter, Double-Blind, Randomized, Placebo-Controlled Study to Investigate the Efficacy and Safety of Lacosamide as Adjunctive Therapy in Subjects with Epilepsy Greater or Equal to One Month to Less than or Equal to Four Years of Age with Partial Onset Seizures</td>
<td>$3,750.00</td>
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<tr>
<td>Paul Maertens</td>
<td>UCB Biosciences</td>
<td>Phase 3, Open-Label Extension Study to Obtain Long-Term Safety and Efficacy Data in Pediatric Epilepsy Subjects with Partial Onset Seizures Treated with Lacosamide Oral Solution (Syrup) or LCM Tablets as Adjunctive Therapy</td>
<td>$3,750.00</td>
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<tr>
<td>Elizabeth Minto</td>
<td>Novartis</td>
<td>Long-Term, Prospective, Multinational, Parallel-Cohort Study Monitoring Safety in Patients with MS Newly Started with Fingolimod Once Daily or Treated with Another Approved Disease-Modifying Therapy</td>
<td>$3,000.00</td>
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## NEUROLOGY (Cont'd)

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<tr>
<td>Elizabeth Minto</td>
<td>Bristol-Myers Squibb</td>
<td>A Phase 2, Placebo Controlled, Randomized, Double-Blind, Parallel-Arm Study to Evaluate Efficacy and Safety of BMS-986141 for the Prevention of Recurrent Brain Infarction in Subjects Receiving Acetylsalicylic Acid (ASA) Following Acute Ischemic Stroke or Transient Ischemic Attack</td>
<td>$2,500.00</td>
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<td>Frank Pettyjohn</td>
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<tr>
<td>Juan Ochoa</td>
<td>Sage Therapeutics</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of Sage-547 Injection in the Treatment of Subjects with Refractory Status Epilepticus Who Have Failed Standard Treatment</td>
<td>$4,750.00</td>
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## OBSTETRICS & GYNECOLOGY

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<tr>
<td>Susan Baker</td>
<td>ADPH HRSA C601189058(GC-16-088)</td>
<td>FY 2015 Perinatal Coordinator Grant</td>
<td>$11,500.00</td>
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<tr>
<td>Susan Baker</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>$57,625.00</td>
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### OBSTETRICS & GYNECOLOGY (Cont’d)

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<tr>
<td>Susan Baker</td>
<td>rEVO Biologies</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>$109,240.75</td>
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<td>Brian Brocato</td>
<td>GlaxoSmithKline</td>
<td>A Randomized, Double-Blind, Multicenter, Phase III Study Comparing the Efficacy and Safety of Retosiban Versus Placebo for Women in Spontaneous Preterm Labor</td>
<td>$2,500.00</td>
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<td>Botros Rizk</td>
<td>AbbVie</td>
<td>A Phase 3 Study to Evaluate the Efficacy and Safety of Elagolix in Combination with Estradiol/Noretinodrone Acetate for the Management of Heavy Menstrual Bleeding Associated with Uterine Fibroids in Premenopausal Women</td>
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### PEDIATRICS

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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>
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<tr>
<td>Karen Crissinger</td>
<td>AbbVie</td>
<td>A Long-Term, Non-Interventional Registry to Assess Safety and Efficacy of Humira (Adalimumab) in Pediatric Patients with Moderately to Severely Active Crohn's Disease (CD) – CAPE</td>
<td>$3,930.00</td>
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<td>Fabien Eyal</td>
<td>Shire Human Genetic Therapies</td>
<td>Determination of the rhIGF-1/rhIGFBP-3 Dose, Administered as a Continuous Infusion, Required to Establish and Maintain Longitudinal Serum IGF-1 Levels within Physiological Levels in Premature Infants, to Prevent Retinopathy of Prematurity</td>
<td>$173,071.57</td>
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<td>Fabien Eyal</td>
<td>Chiesi Farmaceutici S.P.A.</td>
<td>A Multicenter, Double-Blind, Randomized, Single Dose, Active-Controlled Study to Investigate the Efficacy and Safety of Synthetic Surfactant (CHF 5633) in Comparison to Porcine Surfactant (Poractant Alfa, Curosurf) in the Treatment of Preterm Neonates with Respiratory Distress Syndrome</td>
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<td>Fabien Eyal</td>
<td>Abbott Laboratories</td>
<td>Comparison of Two Human Milk Fortifiers in Preterm Infants</td>
<td>$9,600.00</td>
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<tr>
<td>Fabien Eyal</td>
<td>Shire Human Genetic Therapies</td>
<td>Long-Term Outcome of Children Enrolled in Study ROPP-2008-01 Treated with rhIGF-1/rhIGFBP-3 for the Prevention of Retinopathy of Prematurity (ROP) or Who Received Standard Neonatal Care</td>
<td>$4,000.00</td>
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<td>Anne-Marie Kaulfers</td>
<td>ADPH C60118075</td>
<td>Endocrinology Clinic for State Newborn Screening Program</td>
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<td>Ananthasekar Ponnamballam</td>
<td>Sucampo Pharma Americas, LLC.</td>
<td>A Multcentre, 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>$2,099.00</td>
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<td>Abdul Siddiqui</td>
<td>Bayer HealthCare Pharmaceuticals</td>
<td>Trends in Emergency Room Management of Patients with Hemophilia</td>
<td>$3,375.00</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-Oclusive Crisis</td>
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<td>Felicia Wilson</td>
<td>NIH 9500080215-12C-02 Childrens Hospital of Philadelphia Subcontract</td>
<td>Children’s Hospital Philadelphia, Non Industry Funding Per Case Reimbursement: NIH COG Chair Grant</td>
<td>$17,050.00</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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<td>Felicia Wilson</td>
<td>9400120212-02 St. Baldrick</td>
<td>Children’s Oncology Group Grant-Non Industry Funded Work Order</td>
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<tr>
<td>Mark Gillespie,</td>
<td>NIH000508606-008</td>
<td>University of South Alabama Translational Research Service Center</td>
<td>$141,032.00</td>
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<td>Mark Gillespie</td>
<td>NIH 160405</td>
<td>UAB CCTS fee for Service Agreement to Fund Voucher Awards</td>
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<td>Mark Gillespie</td>
<td>NIH 4 R01 HL113614-05</td>
<td>mtDNA Repair An Isolated Pharmacologic Target in Acute Lung Injury</td>
<td>$371,250.00</td>
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<td>Mark Gillespie</td>
<td>NIH 000508606-008-A01</td>
<td>University of South Alabama Translational Research Service Center</td>
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<td>Mark Gillespie</td>
<td>NIH 5 R01 HL058234-15</td>
<td>DNA Lesions &amp; Gene Expression in Hypoxic Lung Disease</td>
<td>$378,750.00</td>
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<td>Lyudmila Rachek</td>
<td>AHA 16 GRNT29150012</td>
<td>Defining Role of Mitochondrial DNA Damage and Repair in the Obesity and Insulin Resistance</td>
<td>$77,000.00</td>
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<td>Thomas Rich, &amp; Diego Alvarez</td>
<td>NIH 5 P01 HL066299-15-PROJ 2</td>
<td>Lung Endothelial Cell Phenotypes – Project 2</td>
<td>$335,348.00</td>
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<td>Thomas Rich</td>
<td>NIH 080-18007-S11202</td>
<td>G Protein-Coupled Receptor Regulation in Airway Myoctyes</td>
<td>$33,413.00</td>
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<td>Mikhail Alexeyev</td>
<td>NIH 5P01 HL066299-15 CORE C</td>
<td>Lung Endothelial Cell Phenotypes-Core C*</td>
<td>$272,826.00</td>
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<td>Mikhail Alexeyev</td>
<td>DOD W81XWH-16-1-0096</td>
<td>Towards Humanized Mouse of Mitochondrial Disease</td>
<td>$302,368.00</td>
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<td>Mikhail Alexeyev</td>
<td>NIH 2 R01 OD010944-05</td>
<td>Mouse Models for Mitochondrial Disorders Caused by mtDNA Mutations</td>
<td>$371,025.00</td>
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<td>Diego Alvarez</td>
<td>NIH 1RO1 HL118334-01A1</td>
<td>Caspase-1, the Microvascular Endothelium and Infection</td>
<td>$378,750.00</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>Kyle Morrow</td>
<td>AHA 16 POST27250139</td>
<td>Endothelial Tau Oligomerization Causes Transmissible Vascular Cytotoxicity</td>
<td>$50,092.00</td>
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<td>Sarah Sayner</td>
<td>NIH 5 R01 HL121513-02</td>
<td>Bicarbonate Regulation of the Pulmonary Endothelial Barrier</td>
<td>$303,000.00</td>
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<td>Troy Stevens</td>
<td>NIH 5 P01 HL066299-15 CORE A</td>
<td>Lung Endothelial Cell Phenotypes-Administrative Core (Core A)*</td>
<td>$526,444.00</td>
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<td>Troy Stevens</td>
<td>NIH 5 P01 HL066299-15 PROJ 1</td>
<td>Lung Endothelial Cell Phenotypes-Project 1*</td>
<td>$345,386.00</td>
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<td>Troy Stevens</td>
<td>NIH T632565 Emory University Subcontract</td>
<td>Cellular and Molecular Mechanisms of Acute Lung Injury in Sickle Cell Disease</td>
<td>$96,525.00</td>
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*Program Project Grant
## PHYSIOLOGY & CELL BIOLOGY (Cont’d)

<table>
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<tr>
<th>Principal Investigator</th>
<th>Agency</th>
<th>Project Title</th>
<th>Fiscal Year Funding</th>
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</thead>
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<tr>
<td>Troy Stevens, Donna Cioffi, &amp; Mikhail Alexeyev</td>
<td>NIH 5 R37 HL060024-19</td>
<td>Store Operated Ca(^{2+}) Entry: Lung Endothelial Permeability</td>
<td>$412,459.00</td>
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<td>Troy Stevens</td>
<td>INSMED 61C3F2AB0867</td>
<td>Insmed Studies: Testing a Therapy to Reverse Occlusive Neo-Intimal Lesions in Pulmonary Arterial Hypertension</td>
<td>$268,647.00</td>
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<td>Mary Townsley</td>
<td>NIH 5 T32 HL076125-13</td>
<td>Training in Cell Signaling and Lung Pathobiology</td>
<td>$212,583.00</td>
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<td>Xiangming Zha</td>
<td>NIH 1 R21 NS093522-01</td>
<td>OGR1 As a Novel Mediator of Acid Signaling in the Brain</td>
<td>$189,375.00</td>
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<td>Xiangming Zha</td>
<td>AHA 13SDG1397009-03</td>
<td>ASIC Trafficking and Ischemia-Induced Neuronal Damage</td>
<td>$77,000.00</td>
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*Program Project Grant

**Total** $4,164,833.00

## SURGERY

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<tr>
<td>Sidney Brevard</td>
<td>Bayer HealthCare Pharmaceuticals</td>
<td>A Prospective, Randomized, Double-Blind, Placebo-Controlled, Multicenter Study to Evaluate the Safety and Efficacy of Bay 41-6551 as Adjunctive Therapy in Intubated and Mechanically-Ventilated Patients with Gram-Negative Pneumonia</td>
<td>$11,159.25</td>
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<td>Lynn Dyess</td>
<td>Agendia, Inc</td>
<td>Multi Institutional Neo-Adjuvant Therapy Mamma print Project (MINT)</td>
<td>$3,400.00</td>
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<td>William Richards</td>
<td>Torax Medical</td>
<td>A Multi-Site, Post-Market Approval Clinical Trial to Assess the Effectiveness of the Sponsor's LINX Implantable Device (the &quot;Device&quot;) as Compared to Proton-Pump Inhibitors (PPIs) According to the Clinical Protocol</td>
<td>$12,380.00</td>
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<td>Paul Rider</td>
<td>Innocoll Pharmaceuticals</td>
<td>A Phase3, Randomized, Double-Blind, Placebo-Controlled Study to Investigate the Efficacy and Safety of the XaraColl Bupivacaine Implant (300mg Bupivacaine Hydrochloride) After Open Lararotomy Hernioplasty</td>
<td>$182,504.00</td>
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<td>Paul Rider</td>
<td>Innocoll Pharmaceuticals</td>
<td>A Health Economic Study of Two Phase 3, Randomized, Double-Blind, Placebo-Controlled Studies to Investigate the Efficacy and Safety of XaraColl Bupivacaine Implant (300mg Bupivacaine Hydrochloride) After Open Laparotomy Hernioplasty</td>
<td>$10,875.00</td>
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<td>Paul Rider</td>
<td>Excited States LLC</td>
<td>Phase 3 Study of Efficacy and Safety of Topical E-101 Solution to Prevent Incisional Infections Among Colorectal Surgery Patients</td>
<td>$22,780.90</td>
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<td>Jon Simmons</td>
<td>NIH 1 K08 GM109113-01A1</td>
<td>mtDNA DAMPS A Pharmacologic Target in Multi-Organ System Failure</td>
<td>$189,000.00</td>
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<td>Jon Simmons</td>
<td>American College of Surgeons 160372</td>
<td>Mitochondrial DNA DAMP’s, A Pharmacological Target in Multiple Organ Dysfunction Syndrome</td>
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<td>Marcus Tan</td>
<td>NIH PROTOCOL #S1505</td>
<td>Protocol S1505-Credit NRG Oncology Foundation</td>
<td>$2,250.00</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>
<td>$2,697.00</td>
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Total $482,046.15