FOREWORD

The College of Medicine accepted its first class in 1973. This small group of students graduated in 1976. Sixty-four students were accepted each year from 1974 to 2005. The matriculating classes of 2005 and 2006 had 70 and 74 students respectively, representing the largest classes in the history of our college. The annual report of 2005-2006 academic year highlights the accomplishments of our students, faculty and programs in the areas of scholarship, research, patient care, and community service. Significant goals for the coming academic year include the continued evolution of the alliance between the USA Health System, our College of Medicine, and the Infirmary Health System, further development of the Mitchell Cancer Institute; and the reorganization of the administrations of the colleges of allied health, medicine and nursing with the deans of the colleges reporting to a Senior Vice President for Health Sciences. A search is underway to identify the individual to serve in this capacity. It is hoped that this administrative structure will help to promote enhanced cooperation, collaboration, and greater educational training opportunities for students in the health care professions.

Samuel J. Strada, Ph.D.
Interim Dean,
University of South Alabama
College of Medicine
# TABLE OF CONTENTS

## I. Reports from Departments and Programs

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry and Molecular Biology</td>
<td>1</td>
</tr>
<tr>
<td>Cell Biology and Neuroscience</td>
<td>6</td>
</tr>
<tr>
<td>Comparative Medicine</td>
<td>14</td>
</tr>
<tr>
<td>Emergency Medicine</td>
<td>19</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>25</td>
</tr>
<tr>
<td>Internal Medicine</td>
<td>27</td>
</tr>
<tr>
<td>Medical Genetics</td>
<td>44</td>
</tr>
<tr>
<td>Microbiology and Immunology</td>
<td>48</td>
</tr>
<tr>
<td>Neurology</td>
<td>53</td>
</tr>
<tr>
<td>Neurosurgery</td>
<td>59</td>
</tr>
<tr>
<td>Obstetrics and Gynecology</td>
<td>61</td>
</tr>
<tr>
<td>Orthopaedic Surgery</td>
<td>67</td>
</tr>
<tr>
<td>Pathology</td>
<td>71</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>79</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>90</td>
</tr>
<tr>
<td>Physiology</td>
<td>106</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>116</td>
</tr>
<tr>
<td>Radiology</td>
<td>117</td>
</tr>
<tr>
<td>Surgery</td>
<td>122</td>
</tr>
<tr>
<td>Biomedical Library</td>
<td>133</td>
</tr>
<tr>
<td>Mitchell Cancer Institute</td>
<td>138</td>
</tr>
<tr>
<td>Center for Lung Biology</td>
<td>148</td>
</tr>
<tr>
<td>Comprehensive Sickle Cell Center</td>
<td>152</td>
</tr>
<tr>
<td>Center for Healthy Communities</td>
<td>156</td>
</tr>
<tr>
<td>Center for Strategic Health Innovation</td>
<td>167</td>
</tr>
<tr>
<td>Office of Technology Development</td>
<td>176</td>
</tr>
</tbody>
</table>

## II. Report from Alumni Affairs and Development Office

- Page 177

## III. Report from Admissions

- Page 200

## IV. Report from Medical Student Summer Research Program

- Page 206

## V. Report from the Graduate Program in Basic Medical Sciences

- Page 209

## VI. Summary of Extramural Support

- Page 214
2005-2006
Summary of Scholarly Activities
Department of Biochemistry & Molecular Biology

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press

Aronson M, Aronson NN, Aronson J. Film history, family history: dad & the telenews theatre corporation. Film history. Forthcoming.


II. PUBLISHED ABSTRACTS


Aronson MG, Aronson NN, Aronson JF. Family history, film history: dad and the
telenews theater corporation. Society for Cinema & Media Studies; 2006 Mar;
Vancouver, BC/Canada. p. 9.

Bonness K, Rutland B, Aragon I, Dean N, Honkanen RE. Cantharidin induced
mitotic arrest is associated with the formation of aberrant mitotic spindles
resulting, in part, from the suppression of PP2A-alpha activity in human lung
adenocarcinoma cells. American Society of Cell Biology Annual Meeting; 2005

Honkanen RE. PP5 a negative regulator of stress induced signaling cascades.
FASEB Summer Research Conference. Protein Phosphatases; 2006 Jul 15-22;
Snowmass, CO. p. 2.

III. BOOKS PUBLISHED

IV. PRESENTATIONS

Aronson NN. A family 18 chitinase and chitobiase: exoglycosidases for the
reducing end. Paper presented at: University of Georgia, 2006 Apr 19; Athens,
GA.

Barik S. RNA interference and host-virus interaction. Paper presented at:
Cleveland State University; 2005 Oct 14; Cleveland, OH.

Barik S. Intranasal antiviral siRNA and shRNA. Paper presented at: GTC Bio
Conference; 2005 Nov 30; San Diego, CA.

Barik S. Targeting the lung and inflammation using siRNA and therapeutic

Barik S. Use of RNA interference in biotechnology. Paper presented at: Indian
Institute of Technology; 2006, Apr 14; Kharagpur, India.

Barik S. RNAi as a therapeutic tool. Paper presented at: Bose Institute,
Department of Biochemistry; 2006 Apr 21; Kolkata, India.

Barik S. RNA interference: Mechanism, application and future. Paper presented
at: University of Calcutta, Department of Biochemistry; 2006 Apr 24; Calcutta,
India.

Barik S. Uses of RNAi to inhibit respiratory viral infection. Paper presented at:
American Society for Gene Therapy Annual Meeting; 2006 Jun 1; Baltimore,
MD.

Honkanen RE. Ser/Thr phosphatase 5, a negative regulator of stress-induced signaling cascades that aids tumor growth. Paper presented at: Emory University; 2006 Jan 17-20; Atlanta GA.


V. NATIONAL PROFESSIONAL RECOGNITION

Sailen Barik, invited by Nature Biotechnology to comment editorially ("RNAi in moderation") on a lead article in this dynamic field of research.

Sailen Barik, research on RNAi shutting down RSV genes was included in “The RNAi Cure?” report from NOVA Science NOW on the Internet: http://www.pbs.org/wgbh/nova/sciencenow/3210/02-cure.html

Sailen Barik, has been appointed a member of the Infectious Diseases and Microbiology Group of the Virology-B Study Section for the NIH, 2006-2010.

Sailen Barik, Vira Bitko. 2005 paper in Nature Medicine that describes use of RNA interference as a therapy against respiratory syncytial virus infection was one of only four full articles selected to be republished by Nature, Collections in an overview issue on RNAi therapy in molecular medicine.

Vira Bitko, Sailen Barik, their 2001 BioMed Central paper describing therapeutic use of RNA interference remains the top viewed electronic paper in the field of Microbiology.

Jim W. Gaubatz, reviewed fellowship/AREA grant applications as a member of the NIH ZRG1 Oncology Study Section.

Richard E. Honkanen, continues as a member of the Tumor Biochemistry and Endocrinology Study Section of the American Cancer Society.

M. G. Nair, discovery and design of the antifolate CH-1504 led to its licensing by the biopharmaceutical development company Chelsea Therapeutics. It is expected to undergo Phase II trials this year as a drug for rheumatoid arthritis.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Biochemistry Graduate students achieved excellent progress in the 2005-2006 academic year. Mark Swingle and Ni Li from Dr. Honkanen’s laboratory and Sonya Urnowey from Dr. Barik’s laboratory obtained their Ph.D. Mark Swingle is continuing structural biology studies as a postdoctoral scientist with Dr. Honkanen, Ni Li moved to the University of Virginia, and Sonya Urnowey joined the Florida Department of Health.

Student research is going very well. Kathy Bonness presented at the American Society of Cell Biology meeting her research on the effects of cantharidin inducing mitotic arrest by suppressing Phosphatase PP2A-alpha. Lauren Amable presented her research on the design and construction of a protein phosphatase 5-deficient mouse at the American Society for Biochemistry and Molecular Biology and at the FASEB Summer Research Conference on Protein Phosphatases. Lauren received travel awards for both meetings. Mary Harpen, a South Alabama undergraduate student, worked in Dr. Barik’s laboratory in a NSF-REU program that provides research experience for undergraduates.

Drs. Aronson, Barik, and Honkanen are active participants in the Alabama EPSCoR (Experimental Program to Stimulate Competitive Research) Program sponsored by the National Science Foundation. They are members of the Alabama Structural Biology Consortium (ASBC) that includes the University of South Alabama, University of Alabama at Birmingham, and University of Alabama at Huntsville.

This summer the Department offered a make-up course in medical biochemistry. Four students who participated in the course came from schools in Alabama, Wisconsin and New Jersey. Joel Andrews and Lauren Amable taught in the summer BEAR program. Dr. Lane was voted Best Basic Science teacher and the 2nd year BEAR students recognized the Department with an Excellence Award.
I. **PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS**

A. **Full-length published articles and book chapters**


B. Articles in press

Fields PF, Fields M. Oxytocin and the bovine large luteal cell of early pregnancy (days 11 to 40): transition from large luteal cell of the estrous cycle to one of pregnancy. Biol Reprod. Forthcoming.


Kuno A, Critz SD, Cohen MV, Downey JM. Nicorandil opens mitochondrial K_{ATP} channels both directly and through a NO-PKG-dependent pathway. Basic Res Cardiol. Forthcoming.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

Fields PA. Fields' anatomy dissector. 2nd ed. Mobile, AL: USA Publications Department; 2006, 75 p.

IV. PRESENTATIONS

Chou KM. Mechanisms and regulations of DNA translesion synthesis polymerase eta. Paper presented at: National Institute of Environmental Health Sciences; 2006 May 24; Durham, NC.

Chou KM. DNA polymerase eta, a friend or foe? Paper presented at: Centre for Molecular Biology and Neuroscience, Institute of Medical Microbiology, Rikshospitalet University Hospital; 2006 May 26; Oslo, Norway.

LeDoux SP. Consequences of targeting DNA repair enzymes to the mitochondria. Paper presented at: Howard Hughes Meeting; Mitochondrial Transactions in Health and Disease; 2005 Sep 26-29; Bethesda, MD.


LeDoux SP. Mitochondrial DNA repair: a critical player in the cellular response to genotoxic insults. Paper presented at: University of Texas Medical Branch; 2006 May 8; Galveston, TX.

Ofori-Acquah SF. Cell migration and lung homeostasis. Paper presented at: EE Just Society; 47th Annual Meeting of the American Society of Hematology; 2005 Dec 12; Atlanta, GA.

Ofori-Acquah SF. Angiogenic plasticity dominantly regulates endothelial wound healing. Paper presented at: 16th Annual Meeting of the Wound Healing Society; 2006 May 16; Scottsdale, AZ.


V. NATIONAL PROFESSIONAL RECOGNITION

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

Dr. Stuart Critz served as an Ad Hoc reviewer for *Journal of Molecular and Cellular Cardiology, Cardiovascular Research, Vascular Pharmacology*.

Dr. Phillip Fields served as Chair Nominating Committee, Society for the Study of Reproduction (2005-2006); Program Committee for the 2006 Society for the Study of Reproduction meeting; Organized and Chaired a symposia for the meeting. Gave the opening introduction to the topic; Relaxin in the 21st Century: The Identification of Relaxin Receptor Has Generated Novel Physiological Applications.

Dr. Anthony Gard served as an Ad Hoc reviewer for *Journal of Neuroscience, Journal of Neuroscience Research, and Neurochemical Research*.

Dr. Steve Kayes was President-elect of American Society of Parasitologists; Chair, Local Organizing Committee of American Society of Parasitologists; Chair, Priorities and Planning Committee of American Society of Parasitologists.

Dr. Susan LeDoux served as a member of the NIEHS Environmental Health Sciences Review Committee; NIH Special Emphasis Panel ZES1 LWJ-E; NIH Special Emphasis Panel ZES1 LKB-C K99R00 Review Panel; served on the Editorial Board of *DNA Repair*.

Dr. Aurelio Loricó served as a reviewer for Cancer Detection and Prevention, Life Sciences, European Journal of Cancer.

Dr. Solomon Ofori-Acquah served as an Ad hoc member of the American Heart Association Southeast Affiliate Study Section; Reviewer for *Microvascular Research and American Journal of Physiology*.

Dr. Glenn Wilson served as an Ad hoc reviewer for the National Institute of Environmental Health Sciences, Outstanding New Environmental Scientist (ONES) RFA; Served as an Ad Hoc Reviewer for the NIH Center for Scientific Review, Cellular Aspects of Diabetes and Obesity; Served as a grant reviewer for the American Diabetes Association; served as Associate Editor for *Clinical Science*, London.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

During the past year the Department expanded its faculty. Dr. Luda Rachek was added as an Assistant Professor, non-tenure track. Dr. Rachek is a talented young scientist and this appointment allows her to seek independent funding for her research. Dr. Sarah Gebb was recruited from the University of Colorado as an Assistant Professor tenure track. Dr. Gebb is an accomplished developmental biologist who specializes in the lung. It is anticipated that she will have a significant impact on the teaching program in the Department and the research goals of the Center for Lung Biology.

The Department continues to place strong emphasis on both teaching and research. To enhance its research efforts, the Department sponsored visits by five distinguished scientists to meet with members in the Department and to present seminars on their research. Dr. William C. Copeland from the Laboratory of Molecular Genetics at the National Institute of Environmental Health Sciences presented a seminar entitled “The Dynamic Role of DNA Polymerase Gamma in Aging and Mitochondrial Diseases” on September 15, 2005; Dr. Daniel F. Bogenhagen from the Department of Pharmacological Sciences at the State University of New York at Stony Brook presented a seminar entitled “Mitochondrial DNA Maintenance and Disease” on November 17, 2005; Dr. Juan L. Contreras from the Department of Surgery at the University of Alabama at Birmingham presented a seminar entitled “Islet Cell transplantation for Type 1 Diabetes: Challenges and Opportunities” on January 19, 2006; and Dr. Bennett Van Houten from the Laboratory of Molecular Genetics at the National Institute of Environmental Health Sciences presented a seminar entitled “Iron, Oxidative Stress, Mitochondrial DNA Damage and Telomerase: What is the Connection?” on March 16, 2006.

In the area of education, the Department continued to provide over a quarter of the instruction given to medical students in the first two years. The mean scores of our first year medical students on the mini board in both Gross and Developmental Anatomy and Cell Biology and Histology were over the 80th percentile. The Department played the lead role in presenting the new Neuroscience course for second year medical students.

Although this course suffered from some of the problems that would normally be expected in a new course, it appears to be on the right track and the Department looks forward to the opportunity to raise the performance in it to the standards obtained in our other courses. Also, a remedial course on Gross Anatomy was presented for medical students in the summer. This course was successful in helping specific students overcome their deficiencies. In the area of resident training, a course on Pelvic Anatomy was provided for Residents in the Department of Obstetrics and Gynecology.
Additionally, undergraduate courses were presented on Gross Anatomy for Physicians Assistant students and Gross Anatomy and Histology for Biomedical Sciences students. In the area of community service, the Department expanded its efforts to provide health related education to students in the public school system. Programs were presented to several hundred students this past year.

In the coming year, the Department is committed to seek new ways to enhance its research activities through the use of special emphasis journal and seminar clubs. Additionally, we will work to identify new technology that will enhance our teaching mission.
I. Published Journal Articles and Book Chapters

A. Full length published articles and book chapters


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


**Schuler AM, Gibson SV, Westberry JM.** Sperm collection from owl monkeys (*Aotus* sp.). Paper presented at: American Society of Primatology 1st Meeting; 2006 Aug 16-19; San Antonio, TX.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Alan G. Brady is a member of the ACLAM Foundation Committee, American College of Laboratory Animal Medicine Foundation, and is Chair of the 2006 ACLAM Forum Program Committee. He also serves as President of the Alabama Association for Biomedical Research. Dr. Brady is a member of the American Association for Laboratory Animal Science and is on the Board of Directors of the Mid-South Branch. He was Past-President of the Association of Primate Veterinarians, a member of the Workshop Planning Committee and Board of Directors. Additionally, he was appointed as ad hoc Primate Specialist by the Association for Assessment and Accreditation of Laboratory Animal Care. Dr. Brady is also consultant on animal care to U.S. Air Force at Keesler Air Force Base, MS. He was a reviewer for the Journal of the American Association for Laboratory Animal Science.

Dr. Susan V. Gibson served as a member of the Finance and Membership Committee of the American Society of Primatologists.

Dr. Jonathan G. Scammell serves on the Editorial Advisory Board of the Journal of Pharmacology and Experimental Therapeutics. He also served as an ad hoc reviewer for the American Journal of Physiology, Comparative Medicine, Proceedings of the Royal Society - Biological Sciences, and Zoo Biology.

Dr. A. Michele Schuler achieved veterinary accreditation from the USDA.

Dr. Lawrence E. Williams served as Co-Chair of the Program Committee, American Society of Primatologists and Guest Editor of a Supplement of the American Journal of Primatology. Dr. Williams also served on the Program Committee for the Southeastern Psychological Association and the Committee on Captive Care and Breeding of the International Primatological Society. He was a reviewer for the American Journal of Primatology.
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 goal during this year was to expand each of the missions of the department. First, there is an ongoing and major upgrade of cage and rack washers and the facilities management system in the vivarium. Second, the faculty increased their formal educational commitment both within the department to technical staff, supervisors, and colleagues and outside the department to graduate and medical students. And third, several faculty secured additional extramural funding. Dr. Schuler received a Special Emphasis Research Career Development Award (SERCA) for the study “Stem cell derivation in two neotropical primate species” from the National Center for Research Resources of NIH. Dr. Scammell serves as her mentor for this project. Dr. Schuler also was approved for an award from the NIH Loan Repayment Program, Pediatric Research LRP. Dr. Scammell served as her sponsor. Dr. Gibson received a grant from the Joseph Schnieders Foundation for the study “Erythrocyte transmission of CJD in squirrel monkeys,” and Dr. Brady received a contract from Merck and Company to quarantine imported squirrel monkeys. These studies have enhanced the value of the Center for Neotropical Primate Research and Resources (CNPRR), which is supported by grants to Dr. Christian Abeel from the National Center for Research Resources and is the focus of research within the department.

The department hosted visits from three scientists who participated in the Distinguished Scientist Seminar Series: Dr. Randolph Nudo (Director, Landon Center on Aging, University of Kansas Medical Center), Dr. Edwin Sanchez (Professor of Physiology, Pharmacology, Metabolism and Cardiovascular Sciences, Medical University of Ohio), and Dr. Ronald Walter (Professor of Chemistry and Biochemistry, Texas State University). The department also hosted Dr. Joseph Brewer (Department of Microbiology and Immunology, Loyola University Medical Center), who participated in the Cell Signaling Seminar Series. We were also visited by Dr. Christopher Medina, Director of Comparative Medicine for Abbott Pharmaceuticals. Dr. Medina is consulting with members of the CNPRR to develop implantable telemetry methods for long-term monitoring of blood pressure in neotropical primates. This work is part of a larger effort to investigate cardiomyopathy in owl monkeys and squirrel monkeys.

The CNPRR hosted students from the University of Illinois (Milena Shattuck), Stony Brook University (Jessie Young), Duke University (Jandy Hana), and the University of South Alabama (Leigh Ann Long), who performed portions of their graduate work in the center. Also completing a student project in the CNPRR was Ms. Rashmi Rajendra, who participated in the undergraduate honors program at the University of South Alabama under the mentorship of Dr. Brady.
IV. PRESENTATIONS


Pettyjohn FS, Burnstein S, Gorbandt M, Quattlebaum MD. Hypertension: when to begin drug therapy, a long standing aviation dilemma. Paper presented at: International Congress of Aviation and Space Medicine; 2006 Sep 10-14; Bangalore, India.

V. NATIONAL PROFESSIONAL RECOGNITION

Frank S. Pettyjohn served in the following positions: Cardiology Consultant to the Federal Aviation Administration; Board of Directors and President, International Academy of Aviation and Space Medicine; and Board of Directors, American College of Emergency Physicians (Alabama Chapter).

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

Alan E. Heins serves in the following positions: ACEP Academic Affairs Committee (ACC); SAEM Membership Committee, Reviewer, Academic Emergency Medicine, Reviewer, Emergency Medicine Pain-line.

Melissa W. Costello serves in the following positions: Member, Council on Medical Education for State of Alabama; Medical Director, National Disaster for Medical Services, AL-3 Disaster Medical Assistance Team and Urban Search and Rescue Team, City of Mobile Fire & Rescue/ Federal Emergency Management Agency, United States Department of Homeland Security.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Emergency Medicine continues to emphasize excellence in Clinical Emergency Medicine, education of housestaff and medical students, and the academic development of the Faculty. The primary goal of the Department is to develop and implement a broad-based educational program utilizing bedside clinical teaching and advancing educational technologies. The goal of acquiring a full Residency Program in Emergency Medicine continues. Support by the Dean, College of Medicine, and Faculty for the development of the residency program has been maintained. Recruiting of additional Faculty is underway to maintain clinical capabilities, enhancing the teaching program and provided the basis for implementing the Emergency Medicine Residency Program.
EDUCATION: The Faculty of the Department of Emergency Medicine continues to emphasize education. Alan Heins, M.D., Melissa Costello, M.D. and Michael L. Sternberg, M.D. provided lectures for medical students in addition to their Introduction to Clinical Medicine course. The Emergency Medicine Interest Group has been developed and has an educational format providing the Total Immersion in Emergency MEDicine course (TIEMed). The medical students continue to select the Emergency Medicine rotation as one of the most sought after training sites.

The Department of Emergency Medicine continues to provide teaching in the Introduction to Clinical Medicine Course for the College of Medicine. This adds to the educational experience of the medical students and provides the initial interaction with Emergency Medicine Attending Faculty. Alan E. Heins, M.D. has been appointed to direct the teaching activities for the third- and fourth-year medical student elective and the Acting Intern Physician. Frank S. Pettyjohn, M.D. serves as Medical Director School of Continuing Education, EMS training providing education of Physicians, Medical Students and Emergency Medical Technicians.

RECRUITING PROGRESS: The recruiting program continues to be active, with the goal of obtaining Emergency Medicine Residency Trained and Board Certified Emergency Medicine Physicians to meet the Emergency Medicine Residency requirements. Frank S. Pettyjohn, M.D., Michael L. Sternberg, M.D. Melissa W. Costello, M.D., Alan E. Heins, M.D., David N. Olson, MBBS, Christen A. Zuschke, M.D., and William W. Beasley, D.O., forms the core faculty group. Additional staff physicians provide a broad-base for educational efforts which include Michael R. Ambrose, M.D., Lynne A. McDonnell, M.D., W. Scott McNair, M.D., Shannon Morgan, M.D., Antonio L. Pacheco, M.D. and Terry N. Rivers, M.D.

FACULTY DEVELOPMENT: Melissa W. Costello, M.D. has been appointed Program Director for the Emergency Medicine Residency Program development. Alan E. Heins, M.D. has been appointed the Research Director for the Department of Emergency Medicine.

Joint Faculty activities continue in coordination with the Departments of Pediatrics, Internal Medicine, Surgery, and Radiology. Dr. Samy Saleeb provides overall emergency medicine radiology educational programs for the Department. Dr. W. Scott McNair and Dr. Lynne A. McDonnell provide educational programs for joint Emergency Medicine and Pediatrics. Enhanced internet capabilities continue to provide the Faculty with updated technologic capabilities to develop educational programs. Photographic capabilities utilize an improved scanner, digital camera, and LCD projector to provide clinical presentations and research capabilities. The digital camera and 35mm still camera are used as the primary photographic capability for patient documentation and clinical case presentation.
Dr. Michael L. Sternberg serves as the primary faculty contact for the development and coordination of these educational opportunities.

**CLINICAL FACILITIES:** During the 2005-2006 program year, the Department of Emergency Medicine continue to support the operations of the University of South Alabama Medical Center, Level I Trauma Center and Emergency Department. The Department is also responsible for providing Faculty to support the Children’s and Women’s Hospital Evaluation Center.

On 1 February 2006, the Clinical Faculty supporting the University of South Alabama Knollwood Park Hospital Emergency Department were transitioned to University of South Alabama Medical Center. This coincided with the transfer of the University of South Alabama Knollwood Hospital to the Mobile Infirmary Health System. The facility now operates as Mobile Infirmary West.

The Departmental offices are on the 10th floor of the University of South Alabama Medical Center. These facilities continue to be upgraded to include advanced audiovisual capabilities, photographic and digital photographic laboratory, slide development and presentation production area, and a multi-center computer learning system. The University of South Alabama Medical Center has been renovated to include new flooring, cabinets, and telemetry monitoring capabilities. The overall computer support system in the University of South Alabama Medical Center Emergency Department was upgraded to provide faculty and housestaff with immediate access to the hospital intra-net, laboratory data, and x-ray. A telemedicine capability with sending and receiving is installed in the Emergency Medicine Conference Room to facilitate educational conferences by national and international experts.

The University of South Alabama Emergency Medicine provides on-going support to the University of South Alabama Children’s and Women’s Hospital. Alan E. Heins, M.D., Melissa W. Costello, M.D., Michael R. Ambrose, M.D., Shannon Morgan, M.D. and Antonio L. Pacheco, M.D., provide Attending coverage for the Children’s Evaluation Center. Close coordination between the University of South Alabama Medical Center, Level I Trauma Center, and the Children’s and Women’s Evaluation Center has been maintained to provide rapid response for appropriate patient care and transfer requests. Coordination is also maintained between the Department of Obstetrics/Gynecology at the U.S.A. Children’s and Women’s Hospital and the U.S.A. Medical Center Emergency Department to provide rapid treatment capabilities for adult patients presenting to Children and Women’s Hospital with acute medical or surgical conditions.
RESEARCH: The Division of Clinical Research entered the eleventh year of operation, with the primary clinical site at Medical Office Park Three, now at the Infirmary West Hospital Campus. The program is under the directive of the Principal Investigator, Frank S. Pettyjohn, M.D., with Afifa Halim-Kirollos, M.D., as the Director of the Division. All members of the Attending Faculty of the Department of Emergency Medicine support the ongoing clinical research studies. Current projects cover a wide range of clinical areas, ranging from comparative anti-hypertensive agent trials, dyslipidemic treatment trials, and cardiovascular therapy trials. This effort provides a unique research opportunity, clinical support, and an educational location for the Department of Emergency Medicine.
2005-2006
Summary of Scholarly Activity
Department of Family Medicine

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS
   A. Full-length published articles and book chapters
      Perkins RA. Mobile’s once-hopping waterfront. Mobile Bay Monthly 2006
      May;22(5)98-9.
   
   B. Articles in press

II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION

   Allen Perkins was appointed to the Board of Directors of the Alabama Academy
   of Family Physicians. He also serves as Chair of the Alabama Academic Family
   Medicine Council. Dr. Perkins continues to serve at the national level as the head
   of the Group on Community Medicine for the Society of Teachers of Family
   Medicine and as a member of the Communications and Technology Committee
   for the Association of Family Medicine Residency Directors.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

   Dr. Allen Perkins was appointed permanent Chair of the Department of Family
   Medicine in October, 2005.

   The Department welcomed three new faculty members this year. Dr. Tangela
   Atkinson was appointed in January as Assistant Professor. Dr. Atkinson is a
   graduate of our residency program and spent four years in private practice in
   Mobile before rejoining USA. Dr. Michael Linder joined the faculty in July at the
   rank of Associate Professor. He was previously Residency Director and Director
   of the Sports Medicine Fellowship Program at the University of Alabama at
   Huntsville.
Dr. Carol Motley also joined the faculty in July at the rank of Associate Professor. Prior to her appointment with us she was in private practice in Huntsville for several years, and before that time held academic appointments at the University of Alabama, Huntsville and the Family Practice Residency, Emory University School of Medicine in Columbus, GA.

Dr. Shyla Reddy has successfully completed a Fellowship in Geriatric Medicine at Emory University.

The Department has acquired and is nearing completion of the renovation of the former administrative space at USA-Springhill Avenue that has been designed for patient care. The space will contain 4 examination rooms and a treatment room and will be used in part for Geriatrics and Sports Medicine clinics.

The Residency Program underwent an ACGME site visit and obtained a 4-year reaccreditation approval.

Dr. Allen Perkins was recognized by the College of Medicine Class of 2006 as distinguished faculty. He also accepted an award from the Department of Physician Assistant Studies as Clinical Instructor of the Year in recognition of exemplary teaching for the period May, 2005-July 2006.

Dr. Larry Henderson was honored by the graduating Family Medicine residents as “Clinical Teacher of the Year, 2006.”
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


Barnett CB, Herrera JL. Fellow’s corner: black esophagus. Practical Gastroenterol 2006;30:54-6,66.


B. Articles in press


Kuno A, Critz SD, Cohen MV, Downey JM. Nicorandil opens mitochondrial $K_{\text{ATP}}$ channels not only directly but also through a NO-PKG-dependent pathway. Basic Res Cardiol. Forthcoming.


Rajendra RS, Brady AG, Parks VL, Massey CV, Gibson SV, Westberry JM, Abbe CR. Characterizing an owl monkey (AOTUS SP.) colony for cardiomyopathy, using echocardiography and electrocardiography. Forthcoming.

II. PUBLISHED ABSTRACTS


**Crook ED.** Male gender is negative predictor of renal survival in African Americans with diabetic nephropathy. Ethn Dis 2006;16(3):S66.


Rego R. How safe is EUS performed by an endosonographer trained at a North American advanced training program recognized by ASGE and has met ASGE guidelines for EUS competency? Results of first 100 procedures after training. Endosc 2006;38:1-50.


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Burress C, Blair-Elortegui J. Prophylia cutanea tarda. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.


Cohen M. Postconditioningto attenuate reperfusion injury: hypoxia/reoxygenation and in vitro models. Paper presented at: American Heart Association Cardiovascular Seminars; 2005 Nov 11-16; Dallas, TX.

Crook ED. Grand Rounds: Musings on race/ethnicity in health and disease: do epidemiologic differences between ethnic groups indicate biological differences? Visiting Professor. Paper presented at: Medical University of South Carolina; 2006 Feb 13-14; Charleston, SC.


Crook ED. Grand Rounds: An update in diabetic nephropathy, Visiting Professor. Paper presented at: Wayne State University School of Medicine; 2006 May 30-31; Detroit, MI.


DiPalma JA. Capsule endoscopy. Paper presented at: Medical Grand Rounds, University of Texas Health Sciences Center at San Antonio; 2006 Mar 16; San Antonio, TX.

DiPalma JA. Course Director: Second Year GI Fellows Course; 2005 Dec 7; Tuscon, AZ.

DiPalma JA. Cutaneous Manifestations of Gastrointestinal Disease, Future of colorectal cancer screening: Medical Regulatory and Economic Issues. Paper presented at: American College of Gastroenterology Regional Postgraduate Course in conjunction with the Florida Gastroenterologic Society; 2006 Mar 7; Key West, FL.


DiPalma JA. Optimizing management of GERD. Paper presented at: Consultants in Gastroenterology CME Event, 2006 Feb 8; Columbia, SC.

Fulmer C, Montgomery T. Rhadomyolysis in a 21 year old with viral prodcrome C. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006, Mar 4; Atlanta, GA.

Hendon S, Blair-Elortegui J. ECG maasquerading as pericarditis. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

36
Herrera JL. Care of the patient with cirrhosis. Paper presented at: Gut Club, University of South Florida; 2005 Oct 11; Tampa, FL.

Herrera JL. Difficult cases in viral hepatitis. Paper presented at: American College of Gastroenterology 2006 Governors Meeting; 2006 Jan 13; Phoenix, AZ.

Herrera JL. Hepatitis C. Paper presented at: Annual update on digestive diseases, University of Mississippi; 2006 Apr 21; Jackson, MS.


Herrera JL. Hepatitis B: who and how to treat. Paper presented at: American College of Gastroenterology 2006 Governors Meeting; 2006 Jan 14; Phoenix, AZ.

Howell D, Blair-Elortegui J. Patient with rash, adenopathy, and arthropyathy. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Howell D, Blair-Elortegui J. HAART healthy? Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Hundley G, Blair-Elortegui J. Hurricane heart. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.


Hundley T, Cunningham J. A non-essential diagnosis. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Hundley T, Montgomery T. An unhappy smile. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Hundley T, Montgomery T. An unwelcomed hitchhiker. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Iliodrumitis FK, Georgiadis M, Cohen MV, Bofilis E, Kremastinos DT, Downey JM. Protection from postconditioning depends on the number of the short ischemic insults in anesthetized pigs. Poster presented at: World Congress of Cardiology; 2006 Sep 2-6; Barcelona, Spain.


Krishnan P, Montgomery T. An unusual cause of upper gastrointestinal bleed. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Kuno A, Critz SD, Cohen MV, Downey JM. Nicorandil opens mitochondrial $K_{ATP}$ channels both directly and through a NO-PKG-dependent pathway. Poster presented at: Cardiology International Society for Heart Research; 2006 Jun 12-16; Toronto, Canada.

Maggio A, Montgomery T. An alarming imitation. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Matthews-Smith V, Blair-Elortegui J. Stones, moans, bones, and psychic overtones: hypercalcemia in the primary care setting. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Matthews-Smith V, Montgomery T. Crystals, cramps, and craziness. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.


Peters M, Montgomery T. A different type of roid rage. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Pettyjohn F, Bernstein S, Gorbandt M. Hypertension: when to begin drug therapy, a long standing aviation dilemma. International Congress of Aviation and Space Medicine, 2006 Sep 10-14; Bagalor, India.

Philipp S, Krieg T, Cui L, Critz SD, Cohen MV, Downey JM. DADLE but not bradykinin activates Src and PI3-kinase through the EGF receptor. Poster presented at: World Congress of Cardiology; 2006 Sep 2-6; Barcelona, Spain.

Ray K, Montgomery T. A case of toxic ingestion. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Ray K, Montgomery T. Chronic headache and blurry vision. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Rixley M, Pendley S, Montgomery T. Patient with seizures, fasciculations, and diaphoresis. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Roth S, Montgomery T. Lover’s heel. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.


Sharif A, Montgomery T. A rare disease with a rare cause. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Sharif A, Montgomery T. Rashes are more than skin deep. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.

Siegel JD, Pendley S, DiPalma JA. The finding of heme positive stool should prompt investigation, despite normal colonoscopy. Paper presented at: Annual Scientific Meeting of the American College of Gastroenterology; 2005 Oct 30; Honolulu, HI.

Warner B. Diabetes prevention: will finding the holy grail require the use of a pharmacogenomic map?. Paper presented at: AOMA 16th Annual Emerald Coast Conference; 2006 Jul 23; San Destin, FL.

Yang XM, Philipp S, Davis A, Downey JM, Cohen M. PKG in ischemic preconditioning and ANP treatment. Paper presented at: 11th International Symposium on Adenosine, Cardioprotection and Its Clinical Application PKG in ischemic preconditioning and ANP treatment; 2005 Nov 12-16; Dallas, TX.


Yongkuma C, Cunningham J. Red eye: atypical presentation of Kaposi’s Sarcoma. Paper presented at: Society of General Internal Medicine Regional Meeting; 2006 Mar 4; Atlanta, GA.
V. NATIONAL PROFESSIONAL RECOGNITION


W.A. Broughton served in the following capacities: Member ATS/ISDA Consensus Panel For the Statement on Community-Acquired Pneumonia (Diagnosis of C.A.P.); President: Alabama State Thoracic Society, 2003-2005; Overall Tri-State Thoracic Conference Program Chairman; Board Member: Tri-state Respiratory Conferences; Program Planner: Named a top reviewer for the Journal Chest by current Editor in Chief.

J.A. DiPalma served in the following capacities: President, American College of Gastroenterology, 2005-2006; Trustee, American College of Gastroenterology, Board of Trustees, 1995-2006; Group of 8, Quadruplicate Society Workgroup, 2004-2005; Executive Committee, American College of Gastroenterology, 2001-2007; Board of Directors, American College of Gastroenterology Institute for Clinical Research and Education, 2001-2007; Editorial Board, Gastroenterology and Hepatology, 2004-2006; Medical Society of Mobile County, Board of Censors (Health), 2006; Mobile County Board of Health, Chairman 2006; Capital Campaign Committee, American College of Gastroenterology, Chairman, 2006; Braintree Laboratories Miralax Advisory Board, 2003-2006; Braintree Laboratories IBS Advisory Board, 2003-2006; Technical Advisory Panel, Bovie Medical Instruments, 2005-2006; Folgers Coffee Scientific Advisory Board, 2006-2007; Best Doctors in America, 2005, 2006.


J.L. Herrera served in the following capacities: Board of Advisors, Liver Institute for Education and Research; Advisory Board, Chronic Liver Disease Foundation; Governor for Alabama, American College of Gastroenterology; Editorial Board, Gastroenterology and Hepatology Journal; Best Doctors in America, 2005-2006.
K.W. Olden served in the following capacities: Immediate Past President, Functional Brain Research Group, American Gastroenterological Association; Chair, Archives Committee, American College of Gastroenterology; Editorial Board, American Journal of Gastroenterology; Series Editor, Treatment of Irritable Bowel Syndrome; Editorial Board, Practical Gastroenterology; Member, Medical Advisory Board Cyclic Vomiting Association of America; Member, Behavioral Medical Study Section (BMIO-2), National Institute of Health; Member Medical Advisory Board International Foundation for Functional Gastrointestinal Disorders; Member, Medical Advisory Board, Gastroparesis Society of America; Cyclic Vomiting Society of America; Salix Pharmaceutical Advisory Board, Xalatan® for the Treatment of IBS; Dynogen Pharmaceuticals Advisory Board, DDT225 for the Treatment of Functional Vomiting; Axcan Pharmaceutical Advisory Board: Itopride for Functional Dyspepsia; Novartis Pharmaceuticals Advisory Board, Tegaserod for the Dyspepsia; Novartis Pharmaceuticals Advisory Board, Tegaserod for the Treatment of Chronic Constipation.

R.F. Rego served in the following capacity: American Society for Gastrointestinal Endoscopy Web Site Committee.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Education

The department has continued to receive excellent evaluations from medical students and residents for its educational activities. Again, the Internal Medicine Clerkship was recognized as the best clerkship for third year medical students by the Class of 2006. That class also recognized Dr. Thomas Montgomery, the departmental Vice Chair for Education, as the recipient of the John Bass Award for Best Clinical Teacher. Finally, several of the departmental faculty were recognized with the red sash award for their educational efforts. Clearly, the department continues to meet its educational mission and is being recognized by its chief customer, the pupils, for success for this endeavor.

Administration

This academic year marked the first full year for Dr. Errol D. Crook, the new chair of the department. Efforts in recruitment have been successful in the Division of Medical Education and the Division of Pulmonary Medicine. During this academic year Dr. Keith Ramsey resigned his position with the College of Medicine to join the Division of Infectious Diseases of East Carolina University College of Medicine. Dr. John A. Vande Waa has taken over the role as interim division chief and has performed very well in this position.
Scholarly Efforts

The department has continued to be productive in scholarly achievements. Most of these efforts are in the area of publication. The Division of Gastroenterology had a particularly successful year in this arena. The department continues to have activity in the clinical investigation, majority with most of these endeavors being pharmaceutical sponsored initiatives. The residents have been active in scholarly activity primarily through case reports and presentations at regional meetings. The chair will encourage activities in investigator initiated, hypothesis driven research amongst faculty and residents.

Service

The department has maintained its activities of clinical service. In many areas we have been able to grow some of our clinical efforts. A major determinate of our future clinical efforts will be the ultimate outcome of our relationship with the Infirmary Health Systems. We have maintained our subspecialty efforts as consultants at Infirmary West Hospital after Infirmary Health Care Systems took over the hospital on April 1, 2006. The residency program remained at Infirmary West Hospital through the end of June 2006. A large part of this academic year was spent working on the clinical relationship with Infirmary Health Systems and how that will impact our educational and clinical initiatives.

Several members of the department have remained active in their service on editorial boards and grant review panels. Many of these department’s members are active in community organizations that focus on particular areas of disease interest as well as organizations focused on service to the Gulf Coast. An example of this, is the establishment of a Mobile Area Leadership Council for the American Diabetes Association over this academic year. Dr. Crook leads this effort. Another notable activity is the tenure of Jack DiPalma, M.D., Chief Division of Gastroenterology as President of the American College of Gastroenterology.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press


II. PUBLISHED ABSTRACTS


Lu G, Chester M, Yue C, and Chen T-J. A new case of acute lymphocytic leukemia in a 48 years-old patient further supports that the unique t(14;19)(q32;q13) is a recurrent abnormality in adult precursor B-cell ALL. American College of Medical Genetics Annual Clinical Genetics Meeting, March 23-26, 2006; San Diego, CA. Abstract no. 128.

III. BOOKS PUBLISHED

IV. PRESENTATIONS


Wertelecki W. Neural tube defects epidemic in Ukraine. Paper presented at: EUROCAT Annual Meeting; 2006 Jun 8-9; Graz, Austria.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. W. Wertelecki was nominated International Coordinator – OMNI-Net – Ukraine, a not-for-profit international organization registered in Kyiv, Ukraine and dedicated to the prevention of birth defects and developmental disorders.

Dr. T.J. Chen was nominated to the organizing committee and program committee for the International Congress of Chinese Geneticists who met August 2-4, 2006 in Beijing, China. He is continuing to serve on the Editorial Board for Applied Immunohistochemistry and Molecular Morphology.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The COM II Medical Genetics Course continues to be upgraded. The latest changes included expansion of small group learning and web-based assignments. Every student is asked to explore and analyze our IBIS web site and requires each student to engage in several hours of web explorations focused on a specific domain of human developmental pathology.

The Medical Genetics Course is uploaded annually to the University’s e-Companion online system, improving student-faculty interaction, as well as providing student access to learning materials and course schedules. Course evaluation by the students showed that the majority of this year’s class rated the course as “very good” or “excellent”. Furthermore, USMLE Step 1 scores in Genetics were again among the highest this year.

Two new elective courses in Medical Genetics were developed by the faculty this year (CSD 694–102 and CSD 694-103). They are offered to interested Communication Sciences doctoral students from the Department of Speech Pathology and Audiology. Dr. Martinez serves as instructor for this course.

Clinical activities have expanded and continue to offer opportunities for training throughout southern Alabama. Medical and nursing students, pediatric residents and fellows actively participate during patient evaluations, not only in our core clinic in Mobile, but throughout our outreach system, as well. In this context, nursing students from the University of South Alabama, Troy University and Wallace College rotate regularly through our clinics. In addition, our department offers a pediatric genetics elective rotation for our pediatric residents. Most residents elect to participate in this experience and have offered high marks to the rotation.

Increasing demand for clinical services has required further expansion of the frequency of outreach clinics held in Dothan and Montgomery, Alabama. Yearly, over 900 patients and families affected by a variety of genetic disorders, birth defects, mental retardation and other developmental disabilities are offered comprehensive medical evaluations and counseling.

The number of tests performed by the Clinical Cytogenetics Laboratory increased by 25% over last year. Much of this increase was due to increases in oncologic specimens and specimens for various FISH analyses. The Laboratory also introduced a new subtelomeric FISH test that can pinpoint submicroscopic deletions and rearrangements at or near the ends (telomeres) of the chromosomes. The new test uses 41 different DNA probes and can detect chromosome abnormalities which were previously invisible. Subtelomeric abnormalities are found in about 7% of patients with idiopathic mental retardation who have previously had a normal chromosome study.
The Diagnostic Molecular Genetics Laboratory performs more than 20 DNA-based tests, including Fragile-X syndrome, Prader-Willi syndrome, Sickle Cell disease, population screening for Cystic Fibrosis disease and DNA paternity testing. Test panels for Neonatal Hypotonia and Autism are recently added services. New molecular diagnostic techniques, Multiplex Ligation-dependent Probe Amplification (MLPA) and array-CGH, are validated in the laboratory. Research projects have been focused on the molecular mechanism of mental retardation diseases.

The Department continues to foster close links with state agencies and continues to receive financial assistance from the Alabama Department of Mental Health/Mental Retardation. Dr. Wertelecki was recently presented the 2006 Alabama Association for Retarded Citizens' (ARC) Peter Leibert Community Prevention Action Award. The State March of Dimes called for an initiative to ensure that the “Alabama Birth Defects Surveillance and Prevention Program”, implemented by this department, secures state funding. The result is a consortium composed of the Alabama Departments of Public Health, Mental Health, Rehabilitation Services, March of Dimes, University of South Alabama and other agencies. The “State-wide Fetal Alcohol Prevention Program” coordinated by this department continues. The Ukrainian-American Birth Defects Program initiated through assistance of the USAID has ended and assumed by the OMNI-Net Ukraine (see Section V. above). The International Consortium for collaborative initiatives on Fetal Alcohol Spectrum Disorders funded by the National Institutes on Alcohol and Substance Abuse continues its collaborative project with this department focused upon prospective studies of fetuses exposed to alcohol. The International Birth Defects Information Systems (IBIS) continues to attract a large number of unique visitors (approaching 1.5 million).
1. **PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS**

   **A. Full-length published articles and book chapters**


   **B. Articles in Press**

II. PUBLISHED ABSTRACTS


Audia J, Patrick MC, Winkler HH. Analysis of the heat shock regulon of Rickettsia prowazekii using oligonucleotide DNA microarrays. 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens 2006 Sep 1-7; Abstract no. 96.


Frohlich K, Winkler H, Audia J. Rickettsia prowazekii acquires glycerol-3-phosphate using two independent pathways. 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens 2006 Sep 1-7; Abstract no. 55.

Lackey A, Wood DO. Analysis of Rickettsia prowazekii CzcR binding sites. 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens 2006 Sep 1-7; Abstract no. 36.

Tucker A, Wood DO. Effect of Rickettsia prowazekii Sec7 protein on host cell processes. Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens 2006 Sep 1-7; Abstract no. 43.

Wood DO. Step by step and gene by gene: The progress and the promise of rickettsial genetics and proteomics. Invited Speaker, 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens 2006 Sep 1-7; Abstract no. 8.

III. BOOKS PUBLISHED

IV. PRESENTATIONS

Audia J, Patrick MC, Winkler HH. Analysis of the heat shock regulon of Rickettsia prowazekii using oligonucleotide DNA microarrays. Paper presented at: The 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens; 2006 Sep 1-7; Pacific Grove, CA.

Foster JW. E. coli’s war on protons. Invited presentation at: Michigan State University; 2006 Mar 7; East Lansing, MI.

Wood DQ. Step by step and gene by gene: The progress and the promise of rickettsial genetics and proteomics. Invited Speaker at: The 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens; 2006 Sep 1-7; Pacific Grove, CA.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Jonathon P. Audia was a Co-Convener for the Genetics, Genomics and Proteomics Session at the 20th Meeting of the American Society for Rickettsiology and 5th International Conference of Bartonella as Emerging Pathogens in Pacific Grove, CA.

Dr. John W. Foster is Chair, Division K, Microbial Physiology and Metabolism, American Society of Microbiology.


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

Dr. David O. Wood is a Member of the American Society for Microbiology Membership Committee, on the Editorial Board of Infection and Immunity, a member of NIH Board of Scientific Councilors (June, 2006, Rocky Mountain Laboratories), and invited speaker at The 20th Meeting of the American Society for Rickettsiology and The 5th International Conference on Bartonella as Emerging Pathogens.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

After serving as Chair since 1977, Dr. Joseph H. Coggin, Jr. announced his retirement effective October 1, 2006. During the past year, a search for a new departmental Chair was initiated. Dr. David Wood has been selected to fill this position and will take over the duties of Chair upon Dr. Coggin’s retirement.

Drs. David McGee and Traci Testerman accepted positions at LSU at Shreveport in November. During the few short years that they were in the Department, both made major contributions to research and to the teaching and service commitments of the Department.

The Department continues several active research programs that remain a major focus of faculty activities. These include research on the obligate intracellular bacterium, *Rickettsia prowazekii*, by Drs. Audia, Winkler, and Wood, herpes virus ocular immunobiology studies conducted in the laboratories of Drs. Lausch and Oakes, and studies on the physiology and genetics of enteric pathogens by Dr. John Foster. In addition, Dr. Coggin, in collaboration with Drs. Rohrer and Barsoum, continue to investigate the role of a unique oncofetal immunogen (OFA). These studies have led to promising collaborative studies in the treatment of selected cancer patients. The University’s Technology Development Office is presently negotiating the sale of a license agreement of the OFA technology.

The Department continued to place a strong emphasis on teaching both medical and graduate students. All of the Faculty participated in the Medical Microbiology course and in the IDL interdisciplinary courses. Dr. Rohrer served as Course Director for Medical Microbiology, Dr. Wood as Course Director for both IDL courses, and Dr. Oakes was Course Director for the Microbiology section of the BEAR program. The Department continued to conduct a hands-on medical microbiology laboratory.
The department extends its congratulations to Dr. Jonathon P. Audia, Assistant Professor, who has received a Notice of Grant Award for his exploratory/developmental R21 application entitled: “Elucidating the *Rickettsia prowazekii* EnvZ/OmpR Regulon”. This project is funded through the Biodefense and Emerging Infectious Disease Initiative and the National Institute of Allergy and Infectious Diseases with an approved budget of $275,000 covering the period: 09/15/2006 – 08/31/2008. The goal of this R21 project is to develop chromatin immunoprecipitation techniques for use in studying gene regulation in the obligate intracytoplasmic pathogen, *Rickettsia prowazekii*. This organism is a Category B Select Agent for which techniques to study gene regulation are scarce underscoring the importance of this proposed study. Expanding our understanding of rickettsial gene regulation will be critical to identifying potential targets for the future development of novel antimicrobials and countermeasures against this pathogen.
2005-2006
Summary of Scholarly Activities
Department of Neurology

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


Rothrock JF. From the editorial office. Headache 2006 Sep;46(8):1229.


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Lopez J. Update on pediatric migraine. Paper presented at: Pediatric neurology seminar, UAB Children’s Hospital and Division of Pediatric Neurology; 2006 Feb 10; Birmingham, AL.


Rothrock J. Common prophylactic practices for chronic daily headache. Paper presented at: Advanced studies in medicine symposium sponsored by Johns Hopkins University; 2005 Dec 3; Manhattan, NY.

Rothrock J. Migraine: common, misunderstood and treatable. Paper presented at: Foundations of Neurology Conference sponsored by Huntsville Hospital’s Corporate University; 2006 Apr 29; Huntsville, AL.

Zweifler R. Acute stoke management. Paper presented at: Great Lakes Rehabilitation 4th Annual Stroke Conference; 2006 Sep 23; Cleveland, OH.


Zweifler R. Advances in acute stroke intervention. Paper presented at: Grand Rounds, DCH Regional Medical Center; 2005 Nov 10; Tuscaloosa, AL.

Zweifler R. What’s new in stroke prevention? Paper presented at: Visiting professor rounds, University of Alabama at Birmingham, Department of Neurology; 2006 Jan 4; Birmingham, AL.


Zweifler R. Acute stoke management in 2006. Paper presented at: Grand Rounds, St. Catherine Hospital; 2006 Jul 6; East Chicago, IN.
Zweifler R. Stroke clinical trials and guideline update. Paper presented at: Grand Rounds, Baptist Hospital; 2006 Aug 10; Pensacola, FL.

Zweifler R. Secondary stroke prevention. Paper presented at: Grand Rounds, West Florida Medical Center; 2006 Aug 29; Pensacola, FL.


V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam, Listed in “America’s Top Physicians” by Consumer’s Research Council of America, 2005-2006.

John F. Rothrock, Listed in “America’s Top Doctors” by Castel Connolly Medical LTD, 2005-2006.


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology’s outpatient clinic experienced an increase in patients evaluated, with improved patient insurance mix. The number of outpatient referrals has out-stripped our capabilities to provide timely evaluations. Additionally, the number of patients admitted to Infirmary West (USA Knollwood) and the long term care facility slightly increased over the last year. The neurology residents’ performance on the national in-service neurological examination continues to increase. Our core neurology rotation for third year medical students has been well received and has stimulated several students to pursue a neurological career.

The number of patients admitted to the epilepsy monitoring unit increased. This unit is a considerable financial resource, provides a required component to our residency educational program, and is pivotal to sustaining our epilepsy research base.
Major directions of the department are to accommodate the number of outpatient referrals, continue increasing research funding, increase supplementation of faculty salaries from research dollars and increase our scholarly activities through peer-reviewed publications.

In conclusion, our department made considerable improvements, including diversification, and markedly increased research activities and funding. The department provides excellence in teaching and neurological care.
2005-2006
Summary of Scholarly Activities
Department of Neurosurgery

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full length published articles and book chapters


B. Articles in press

Phelan HA, El-Badawi K, Gonzalez RP, Hassan M, Quindlen EA, Mulekar M. Non-protocol based training regimen for intracranial pressure monitor placement by general surgery residents results in higher non-hemorrhagic complication rates. Forthcoming.

II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurological Surgery has had continued success with its electronic health record, which allows web based patient registration. Patient feedback has been very positive concerning this feature. The neurosurgical clinic has experienced an increase in referrals. The department continues to sponsor a weekly conference at USAMC, which serves as an excellent collaborative effort with neurology and neuroradiology.

Dr. Eugene Quindlen continues to participate in medical education in the College of Medicine, giving lectures in Neuroanatomy, Neuropathology, Neurophysiology and lectures for third-year medical students rotating on the surgical clerkship. The fourth-year clinical clerkship continues to be a main, ongoing teaching function.
Dr. Anthony Martino has developed the pediatric neurosurgery service at Children's and Women's hospital and has been instrumental in expanding the services offered. In addition, he has taken over the department's participation in Children's Rehabilitative Services for the state of Alabama.
2005-2006
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full length published articles and book chapters


B. Articles in Press


61
II. PUBLISHED ABSTRACTS


Johnston N, Sherman C. First trimester doppler analysis of uterine arteries as a predictor for development of preeclampsia. CD; J Ultrasound Med 2006;25:S89.

Mains L, Finan MA. Gynecologic surgery in the elderly. The 53rd Annual Clinical Meeting of the American College of Obstetrics and Gynecology; 2005 May; San Francisco, CA.


Sheikh AU, Winfrey M. Azithromycin is equally efficacious in delaying time to delivery compared to erythromycin in women treated with prolonged premature rupture of membranes. 52nd Annual Meeting for the Society of Gynecologic Investigation; 2005 Los Angeles, CA. 863:358A.


III. BOOKS PUBLISHED


IV. PRESENTATIONS


Baldwin L. 3D and 4D ultrasound cases. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.

Fagbongbe EO. Screening reproductive women for heart disease. Paper presented: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.

Finan MA. GYN cancers: an overview. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.

Hogan WL. HSV, sex and you. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.

Owens SA. Disaster planning: women and hurricanes. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.

Porter KB. Preconception and interconception care. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2006 Apr 6-7; Mobile, AL.


Rizk B. Plenary session. Novel medical treatments for endometriosis, are they novel? Paper presented at Middle East Fertility Society 12th Annual Meeting; Nov 26; Luxor, Egypt.

Rizk B. Stem cell therapy: the debate continues. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2005 Apr 6-7; Mobile, AL.


Sherman C. Preterm birth dilemmas. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2005 Apr 6-7; Mobile, AL.

Varner STF. HIV and vaginitis. Paper presented at: The 15th Annual OB/GYN Continuing Education Conference; 2005 Apr 6-7; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Botros Rizk has been an Ad hoc reviewer for 11 years to the Journals of Fertility and Sterility, Human Reproduction, Molecular Human Reproduction, Middle East Fertility Society, Journal of Reproductive Biomedicine, Online American Journal of Obstetrics and Gynecology and is on the Editorial Board of the Middle East Fertility Society Journal Publication of three significant textbooks in the field of reproductive medicine. His monograph on Ovarian Hyperstimulation Syndrome was the first book ever published worldwide on this topic. The textbook of infertility and assisted reproduction is a classic text with more than 60 authors and will be considered the curriculum sub-specialty board in the UK and Europe. The brief book on infertility will serve as the educational source for reproductive specialists.

Dr. Kathy B. Porter is a National Board Examiner for the American Board of Obstetrics and Gynecology.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Three new faculty members joined the Department of OB/GYN this past year. Dr. Nicole Brooks, Dr. Corey Jacobs and Dr. John LaFleur.

The Department once again sponsored a very successful CME program this academic year. The 15th Annual Continuing Education Conference in Obstetrics and Gynecology was held at the Mobile Convention Center in Mobile and was widely supported and attended by physicians, nurse practitioners, nurse midwives and nurses from a large geographic area. The total number of registrants was 190.

Dr. Sheri Owens continues as Clerkship Director for the department. She served on the Curriculum Committee and Department Education Committee.

Dr. Eniola Fagbongbe is the Assistant Clerkship Director for the department and he serves on the Department Education Committee.

Dr. Kathy B. Porter. Dr. Porter is a member of the Finance Committee for SELAM. She is a Board Member for the local March of Dimes and a National March of Dimes Representative. She is Chair of the Regional Perinatal Committee and a Committee Member for the Fetal Infant Mortality Review for Mobile County and the Alabama Baby Coalition. She is Vice Chair of the State Perinatal Committee, University and hospital committees include OB/GYN Committee, Medical Executive Committee, Medication use Committee, and OB/GYN Performance Improvement Committee. For the University she is on the following committees; Graduate Medical Education, FCAPE, CME, Faculty Senate and Research Advisory Committee. She is a reviewer for Obstetrics and Gynecology, the American Journal of Obstetrics and Gynecology and the American Journal of Kidney Disease. Dr. Porter became the Program Director on September 1, 2005. She serves in that capacity to date. Dr. Porter has been the PI on the Columbia Laboratory study Prochieve. Dr. Porter is a member of the Department Education Committee, she is Director of the Ultrasound unit which is AIUM and ICAEL accredited.

Dr. Botros Rizk. Dr. Rizk is a member of Department of OB/GYN Laboratory QA Committee, Chairman 1999-Present, Departmental or college administrative assignments (Vice Chair service, non-committee administrative assignments, e.g., core directors, departmental service work). Medical and Scientific director of the University of South Alabama IVF Program. Chairman of the American Society for Reproductive Medicine International Membership Committee. Co-Chairman of the Scientific Postgraduate Course on Endometriosis and Workshop Chairman on Controversies in ART for the American Society for Reproductive Medicine's 60th Annual meeting in Philadelphia Member of the International Scientific Advisory Committee on the 13th World congress on In Vitro Fertilization.

65

Dr. Craig Sherman serves as the Assistant Program director and as Medical Director for the Women’s Center. He is the Chair of the OB/GYN Committee for USA Children’s and Women’s Hospital and serves as Chair of the Department Education Committee. Dr. Sherman is a member of the University Institutional Review Board. Dr. Sherman is the Rotation Director for the Physician Assistant Students’ OB/GYN rotation.

Dr. Susan L. Baker is part time and focuses on clinical care.

Dr. Asad Sheikh served as Medical Director for Obstetrics and Gynecology Evaluation Center of USACW until September 1, 2006. Dr. Sheikh is Director of Maternal Fetal Medicine. He serves on several committees including the Medication Use Committee, Code Committee, USA Children’s and Women’s Hospital Obstetrics and Gynecology Committee and OB/GYN Performance Improvement Committee. He is Chairman for the Fetal Infant Mortality Review Committee and Vice-Chairman for the Regional Perinatal Advisory Council. Dr. Sheikh’s teaching activities include OB/GYN Residents’ Education committee and Second year medical student course in medical genetics. He is a reviewer for American Journal of Obstetrics and Gynecology, and the Journal of Reproductive Medicine.

Dr. Steven Varner. On July 1, 2006 Dr. Varner became the Director of the Division of Gynecology. Dr. Varner served on the following committees: Committee on Admissions, Student Promotions and Evaluation Committee, Ethics Committee, President USACW Medical Staff, OB Pharmacy Committee, Combined Credentials Committee and Medical Executive Committee for USACW. Dr. Varner is a member of the Department Education Committee.

Dr. Michael Finan is Director of the Oncology Division for the Department.

Dr. Walter Hogan functions as a part time clinical faculty member and focuses on clinical care.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Madanagopal SG. Latissimus Dorsi transfer as salvage for failed debridement and repair of massive rotator cuff tears. Paper presented at: Mid-America Orthopaedic Association Annual Meeting; 2006 Apr 19-23; San Antonio, TX.

Madanagopal SG. Strain and force changes within the rotator cuff after a simulated tear using a dynamic model. Paper presented at: Mid-America Orthopaedic Association Annual Meeting; 2006 Apr 19-23; San Antonio, TX.

Madanagopal SG. Retrospective review to evaluate the incidence of premature physeal closure in distal tibial Salter-Harris Type I and II physeal injuries. Poster presented at: Mid-America Orthopaedic Association Annual Meeting; 2006 Apr 19-23; San Antonio, TX.

Madanagopal SG. Evaluation of patients undergoing arthroscopic and mini-open rotator cuff repair: minimum two year evaluation. Poster presented at: Mid-America Orthopaedic Association Annual Meeting; 2006 Apr 19-23; San Antonio, TX.
Meyer FN. Scaphoid fractures. Paper presented at: Joint Meeting of the Alabama and Florida Orthopaedic Societies; 2006 May 18-21, Sandestin, FL.


Nimityongskul P. Treatment of tarsal condition: a retrospective review of cases done over 5 years. Paper presented at: Joint Meeting of the Alabama and Florida Orthopaedic Societies; 2006 May 18-21, Sandestin, FL.

Nimityongskul P. Spino-pelvic dissociation: a review and report on our experience. Paper presented at: Joint Meeting of the Alabama and Florida Orthopaedic Societies; 2006 May 18-21, Sandestin, FL.


Pearsall AW. Treatment options for tibio-talar joint arthritis: The USA experience. Paper presented at: Southeastern Orthopaedic Foot Club Annual Meeting; 2006 May 18; Sandestin, FL.


V. NATIONAL PROFESSIONAL RECOGNITION

Frederick N. Meyer, M.D. Listed in “Best Doctors in America”, Best Doctors, Inc. www.bestdoctors.com. Keynote Speaker Lectureship named in honor of Frederick N. Meyer, M.D. by the Association of Residency Coordinators in Orthopaedic Surgery; Member, American Orthopaedic Association Leadership Forum; Member, American Academy of Orthopaedic Surgeons Practice Management Committee; Member, Board of Directors, Clinical Orthopaedic Society; American Academy of Orthopaedic Surgeons representative to the Accreditation Council of Graduate Medical Education on Core Competencies.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

An additional faculty member, Dr. Amy H. Phelan, was recruited to head the newly developed Physical Medicine and Rehabilitation Division of the department. In addition, a Master Level Engineer was hired for the department’s Biomechanics Laboratory. Outpatient physical therapy was integrated into the department and located within the Orthopaedic clinical facility. The Department also integrated the Foot and Ankle Clinic which is physically located at the USA Springhill Avenue Campus. Scholarly activities from faculty members in the department include a total of eight manuscripts published in the medical literature and four manuscripts currently in press. Fourteen presentations were given by faculty members at regional, national or international professional meetings. Dr. Albert Pearsall and Dr. Valentina Grishko obtained a grant from the Orthopaedic Research Education Foundation in the amount of $100,000 over a two-year period. Dr. Sudhakar Madananopol obtained a research support grant from Howmedica Osteonics Corporation in the amount of $71,646 for a one-year period. Other income obtained includes a Sponsor Agreement Grant from Synthes in the amount of $52,500 in support of an Orthopaedic Research Biomechanical Engineer. On October 1, 2005 three orthopaedic surgery residents from Tulane Medical School who were displaced by Hurricane Katrina joined our residency training program to continue their orthopaedic education without interruption. The Orthopaedic Residency Training Program was site-visited in February by the Residency Review Committee and full accreditation was granted for the next three years. Two Orthopaedic Surgery residents were selected to represent our training program in the OrthoBowl at the Alabama Orthopaedic Society and Florida Orthopaedic Society Joint Annual Meeting in Sandestin, Florida, May 19-21, 2006. The Department sponsored the Southeastern Orthopaedic Foot Club Annual Meeting for the 17th consecutive year with Dr. Frederick Meyer serving as Course Chairman. This CME meeting is held in conjunction with the Alabama Orthopaedic Society Annual Meeting. Dr. Frederick N. Meyer and Dr. Albert W. Pearsall were both selected as one of the Best Doctors in America by Best Doctors, Inc. for 2005-2006. The Department of Orthopaedic Surgery remains committed to excellence in the instruction of medical students, interns and resident physicians and to the overall improvement and productivity of the USA Health System in providing effective and professional care to patients in Mobile and the surrounding area.
2005 – 2006
Summary of Scholarly Activities
Department of Pathology

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press

Bonness K, Aragon IV, Rutland B, Ofori-Acquah S, Dean N, Honkanen RE. Cantharidin induced mitotic arrest is associated with the formation of aberrant mitotic spindles and lagging chromosomes resulting, in part, from the suppression of PP2Aα. Mol Cancer Ther. Forthcoming.


71


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Cain KT, Polski JM, Carter E. Candida lusitaniae lymphadenitis in the setting of chronic granulomatous disease. Poster presented at: 106th American Society for Microbiology Annual Meeting; 2006 May 21-24; Orlando, FL.

Denninghoff VC, Kahn AG, Falco J, Troughot V, Curutchet HP, Elsner B. Molecular pathology of stage I and II cutaneous malignant melanoma: study of the sentinel lymph node. Paper presented at: 95th Annual Meeting of the US-Canadian Academy of Pathology; 2006 Feb 13; Atlanta, GA.

Evans TN, Wilson F, Polski JM. Acute megakaryoblastic leukemia with hemophagocytosis and t(1;22)(p13;q13). Poster presented at: College of American Pathologists' 06 - The Pathologists' Meeting; 2006 Sep 10-13; San Diego, CA.


Rodriguez JR, Patterson KV. Streptococcus mitis bacteremia with hepatic abscess. Poster presented at: American Society for Microbiology Annual Meeting; 2006 May 22-25; Orlando, FL.


Titford M. Progress in histopathology technique. Poster presented at: National Society of Histotechnology Annual Convention 2005 Sep 10-15; Fort Lauderdale, FL.

Tucker JA, Nicosia SV. Anatomical waxes in 18th century Italy. History of Pathology Society Annual Meeting (companion meeting of U.S. and Canadian Academy of Pathology); 2006 Feb 11-17, Atlanta, GA.

Tucker JA. Role of electron microscopy in renal transplant biopsies. Society for Ultrastructural Pathology Biennial Conference (Ultrapath XIII); 2006 Jul 9-14, Rapid City, SD.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Leroy Riddick was the recipient of the 2005 Medical Alumni Association Distinguished Service Award. This special award was presented to him at the 25th Annual Medical Alumni reunion weekend at the Perdido Beach Resort in Orange Beach, Alabama. Then, at the annual meeting of the American Academy of Forensic Sciences in Seattle, Washington, in February, 2006, Dr. Riddick was presented with the Milton Helpern Award for outstanding contributions to the field of forensic pathology. This award was established in 1987 to honor the memory of Dr. Milton Helpern, who worked as chief medical examiner in New York for many years.

Dr. Allan Tucker was elected treasurer of the History of Pathology Society. He was already serving as secretary of that society, so the office for that society is now based at the University of South Alabama. He concluded his term as past president of the Society for Ultrastructural Pathology, and he was selected to chair the Pathologist-in-Training Award Committee for that group.
He continues to serve as associate editor for the journal *Ultrastructural Pathology*. He is an executive council member of the Association of Directors of Anatomic and Surgical Pathology, and serves as chair of that group’s Advisory Committee on Practice Management. He also serves on the Practice and Management Committee and on the Advocacy Committee of the Association of Pathology Chairs. He serves on the Economic Affairs Committee of the College of American Pathologists, including work on the National Correct Coding Initiative/Regulatory Affairs Workgroup. He is an ambassador for the United States and Canadian Academy of Pathology, and serves on the Educational Long-Term Strategic Planning Group, the F. Stephen Vogel Award Committee, and the nominating committee for that organization. He continues his membership on the Electron Microscopy Ad Hoc Review Group, performing quality assurance for the Veterans Affairs Electron Microscopy Program.

Dr. Elizabeth Manci was principal investigator on a NIH subcontract with Rockefeller University on beta-3 integrins in platelet and vaso-occlusive disorders. She is also a collaborator with an investigator at Emory University on inflammation-induced endothelial adhesion in transgenic sickle mice and with NIH on a transgenic mouse model for acute chest syndrome. She is also involved with a study of secondary hemochromatosis in thalassemia and sickle cell disease. She remains director of the Centralized Pathology Unit for Sickle Cell Disease and director of the Alabama Placenta Registry. She serves as a reviewer for the *Journal of Pediatric Pathology, Archives of Pathology, and Pediatric and Developmental Pathology*.

Dr. Lalita Samant received the Saving the Science Travel Award from the American Association of Cancer Research in support of her presentation of five abstracts at their annual meeting. She continues as a principal investigator on her Susan G. Komen Award, and she is a collaborating investigator on Dr. Pannell’s R21 Award and the American Heart Association Award received by Dr. Judy King, who has a secondary appointment in the department. Dr. Samant was named to study sections for both the Susan G. Komen Foundation and the Department of Defensive Breast Cancer Research Program. She was elected to membership in Sigma Xi Scientific Research Society.

Dr. Elliot Carter serves as principal investigator on two grants, one for a pharmaceutical company and one from a commercial laboratory.

Dr. Gary Carnahan is an assessor for the American Association of Blood Banks, and he also serves as a lead inspector as part of the laboratory inspection program of the College of American Pathologist.

Dr. Jacek Polski serves on the editorial board of *Annals of Clinical and Laboratory Science*.
Dr. Jeff Sosnowski continues work in national courses for USMLE Step 1 preparation, providing 150 hours of lectures per year in embryology, histology, gross anatomy, and pathology.

Mr. Michael Titford serves on the Health and Safety Committee of the National Society of Histotechnology.

Dr. Karen Kelly serves on the Alabama Child Death Review Committee and on the Alabama/Mobile County Emergency Management committee.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

As noted above, Dr. Leroy Riddick was the recipient of the 2005 Medical Alumni Association Distinguished Service Award and the 2006 Milton Helpem Award for outstanding contributions to the field of forensic pathology. Then, after 27 years of distinguished service in the Alabama Department of Forensic Sciences, Dr. Riddick retired on June 30, 2006. A celebration was held for him on June 21 at the Waterman Globe Atrium of the Mitchell Center, where he was honored by the Alabama Department of Forensic Sciences, state, city and county governments, district attorney offices, various police and sheriff’s offices, the university, the department, and even a high school classmate. Fortunately, given his outstanding dedication to and excellence in teaching, Dr. Riddick has agreed to continue work part-time in the department in a teaching capacity, working with pathology residents and medical students.

With Dr. Riddick’s retirement from the Alabama Department of Forensic Sciences, Dr. Karen Kelly was appointed as the senior medical examiner in that department. Also, Dr. John Krolikowski, a highly experienced forensic pathologist, was recruited from the New Jersey Medical Examiner’s office to join the group here.

Three residents finished this year. Dr. Daniel Massi finished, and has accepted a position in Honduras. He is currently involved in fundraising efforts to support his work there. Dr. Tatyana Chernova finished her residency and has begun an oncologic surgical pathology fellowship at Fox Chase Cancer Center in Philadelphia.

Dr. Andrea Kahn also finished her residency, and, following a search, she was selected for a faculty position in the department, and she has begun work in the department as an assistant professor of pathology, immediately becoming involved in surgical pathology and cytopathology.

Dr. Carole Boudreaux has done an outstanding job as program director for the department, including a superlative effort this year in recruitment.
The department was extremely fortunate to have three outstanding new residents begin on July 1: Dr. John Nelson, Dr. Kelly Nelson, and Dr. Ken Whithaus.

Dr. Elliot Carter has similarly continued his outstanding role as course director. The pathology course has been a leader in converting to an online format, and the course was the first to utilize online testing for major examinations.

This year, the Betsy D. Bennet Award for Outstanding Teaching in the second year small group was presented to Dr. Suzanne Martin. The Faculty Recognition Award for excellence in residency teaching was presented to Dr. Jeffrey Sosnowski. Jerry Resmondo in histology received the award from the housestaff as the outstanding staff member contributing to their educational experience. The graduating student receiving the William A. Gardner, Jr., Pathology Award was Nathan Sumner.

For the first time, the second year students honored outstanding teachers from their first two years of medical school by recognizing them at the White Coat Ceremony. Three faculty members were so honored, and two were from the pathology department: Dr. Elliot Carter and Dr. Jeffrey Sosnowski.

Dr. Tucker was elected by the graduating class to give the address at Honors Convocation, and his Electron Microscopy elective received the award as the best senior rotation.

This year marked the beginning of a significant period of challenge and opportunity. The university has begun an alliance with Mobile Infirmary, including the leasing of what was Knollwood Hospital to the Infirmary Health System, with that hospital becoming Infirmary West. The department has been working very actively with both Gulf Regional Pathologists (the Mobile Infirmary pathology group) and with the Infirmary Health System administration to work toward a mutually beneficial system that will continue to support the department’s educational mission. Already, the department has begun performing the autopsies for the Infirmary Health System, and we anticipate additional collaborations in the future.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Baldwin C, Trimm F. Planning a new educational program: the nuts and bolts. Paper presented at: PAS Educational Scholars Program; 2006 May 2; San Francisco, CA.

Bar-on M, Trimm F. Sampling the evaluation toolkit: 360 degree or multisource feedback. Paper presented at: Association of American Medical Colleges Annual Meeting; 2005 Nov 8; Washington, DC.

Bar-on M, Trimm F. Everyone has a say: implementing 360° evaluations. Paper presented at: Association of Pediatric Program Directors Annual Meeting; 2006 Apr 28; San Francisco, CA.

Bhowmick SK. Obesity in type II diabetes mellitus in pediatrics. Paper presented at: USA Health Systems Nursing Program; 2006 Jul 13; Mobile, AL.

Billings A. Kawasaki disease manifesting as cholangitis. Poster presented at: American College of Gastroenterology 70th Annual Scientific Meeting; 2005 Oct 30; Honolulu, HI.

Burress C, Blair-Elortegui J. Porphyria cutanea tarda. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Chung AM. Immunological and virologic response of a pharmacist-managed medication adherence program in HIV-infected women, adolescents, and children. Poster presented at: Southern Society of Pediatric Research Annual Meeting; 2006 Mar 4; Atlanta, GA.

Clement LT. Selected participant. Statewide Breastfeeding Summit; 2005 Dec 2-4; Orange Beach, AL.

Clement LT. Roundtable discussion. Arthritis Foundation Camp M*A*S*H* (Make Arthritis Stop Hurting); 2005 Aug 6; Mobile, AL.


Estrada B. Immunization update. Paper presented at: Quarterly Meeting of the Mobile Pediatric Society; 2005 Nov 17; Mobile, AL.


Eyal FG. What’s new and hot in the NICU. Paper presented at: Alabama Chapter, AAP Annual Meeting & Pediatric Update; 2006 Sep 30; Destin, FL.

Falkos S. Respiratory distress. Paper presented at: Alabama State University; 2005 Oct 27; Brewton, AL.

Falkos S. Treatment of increased intracranial pressure with etomidate in a pediatric patient. Paper presented at: Southern Regional Meetings; 2006 Mar 3; Atlanta, GA.
Hendon S, Blair-Elortegui J. ECG masquerading as pericarditis. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Howell D, Blair-Elortegui J. HAART healthy? Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Howell D, Blair-Elortegui J. Patient with rash, adenopathy, and arthrophy. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Hundley G, Blair-Elortegui J. Hurricane heart. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Hundley G, Blair-Elortegui J. Complicated myocardial infarction. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Mancao M. Reproductive choices of women infected with HIV followed at University of South Alabama Family Specialty Clinic. Poster presented at: 33rd Annual Scientific Meeting of the Infectious Diseases Society for Obstetrics and Gynecology; 2006 Aug 3; Monterey, CA.

Mancao M. Pediatric HIV. Paper presented at: 18th Primary Care Symposium, Association of Philippine Physicians of the Florida Panhandle; 2005 Sep 10; Pensacola, FL.

Matthew-Smith V, Blair-Elortegui J. Stones, moans, bones, and psychic overtones: hypercalcemia in the primary care setting. Paper presented at: SSGIM Southern Regional Meeting; 2006 Mar 4; Atlanta, GA.

Preud’Homme D. Fasting glucose to insulin ratio is sensitive but not specific for predicting impaired glucose tolerance in severely obese children. Poster presented at: American Heart Association 46th Annual Conference for Cardiovascular Disease, Epidemiology, and Prevention; 2006 Mar 2-5; Phoenix, AZ.

Preud’Homme D. Children with obesity are unable to follow recommended guidelines for exercise. Poster presented at: American Heart Association 46th Annual Conference for Cardiovascular Disease, Epidemiology, and Prevention; 2006 Mar 2-5; Phoenix, AZ.
Preud’Homme D. Prevalence of overweight and obesity in a population of low income toddlers aged 24-45 months in Ohio; influence of maternal factors. Poster presented at: American Heart Association 46th Annual Conference for Cardiovascular Disease, Epidemiology, and Prevention; 2006 Mar 2-5; Phoenix, AZ.


Vidal R. Shock. Paper presented at: Biloxi Regional Medical Center; 2005 Nov 30; Biloxi, MS.

Vidal R. Shock. Paper presented at: Atmore Community Hospital; 2006 Apr 26; Atmore, AL.

Wilson FL. Newborn screening, intro to thalassemia and intro to genetics. Paper presented at: Sickle Cell Disease Association of America Counselor Certification Course; 2006 Jan 26; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Surendra Baliga served as a Reviewer for Archives of Pediatrics and Adolescent Medicine.

Samar Bhowmick served as a Reviewer for Endocrine Practice, Southern Medical Journal and Clinical Pediatrics.

LaDonna Crews served as Adolescent Section Coordinator, Alabama Chapter, American Academy of Pediatrics and as a Reviewer for Clinical Pediatrics.

Karen Crissinger served as a Reviewer for Clinical Pediatrics.

Benjamin Estrada is a member of the Scientific Advisory Council of the Society for Clinical Pediatrics. He continues to serve as the Institutional Representative for the Executive Council of the Southern Society for Pediatric Research and was Medical Staff President at USA Children’s and Women’s Hospital in 2005. He serves on the Editorial Board of Pediatric Infectious Diseases Forum and Infections in Medicine. He is a Reviewer for Clinical Pediatrics, Infection Control and Hospital Epidemiology, Pediatric Infectious Diseases Journal, Infections in Medicine and Medscape General Medicine.
Sheryl Falkos served as a Reviewer for Clinical Pediatrics and continues to serve as a Series Editor for Medscape Pediatric Interactive Clinical Cases.

Charles Hamm continues to serve on the State Perinatal Advisory Committee.

Mary Manco served on the Alabama Department of Public Health Sexually Transmitted Disease Medical Advisory Council and as a member of the Alabama Ryan White Title IV Program Network Advisory Board. She is a Reviewer for Clinical Pediatrics.

Daniel Freud'Homme due to his continued service as an American Heart Association/American Stroke Association Professional Member, qualified to receive the Silver Heart Member distinction.

Kenneth Rettig served as a Reviewer for Clinical Pediatrics.

R. Franklin Trimm was selected as a Faculty Member, Pediatric Academic Societies Educational Scholars Program. He continues to serve on the Project Team for revision of the Ambulatory Pediatric Association's Educational Guidelines for Residency Training in General Pediatrics; and on the Advisory Committee, dbapeds.org, a website aimed at professionals interested in child development and behavior, especially in the medical setting sponsored by the American Academy of Pediatrics, Section on Developmental-Behavioral Pediatrics and The Commonwealth Fund of NYC. He continues to serve as a Reviewer for the Journal of Pediatrics, Clinical Pediatrics and Journal of Developmental & Behavioral Pediatrics.

Rosa Vidal continues to serve as a Series Editor for Medscape Pediatric Interactive Clinical Cases.

Richard Whitehurst continues to serve on the Regional Perinatal Advisory Council.

Felicia Wilson continues to serve at the pleasure of Governor Riley on the Alabama State Sickle Cell Disease Oversight & Regulatory Commission. She also served as a member of the American Board of Pediatrics Hematology/Oncology Study Section; the State of Alabama Hemophilia Advisory Committee; and the State of Alabama Newborn Screening Advisory Committee.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pediatrics welcomed several new faculty members in 2006. Drs. Jennifer Cole, Lloyd Scott Clements, and Ihab Jubran joined the Division of General Pediatrics. Dr. Daniel Preud'Homme joined the Division of Pediatric Gastroenterology. Drs. Hamayun Imran and Aarati Rao accepted positions in the Division of Pediatric Hematology/Oncology; and Dr. Hanes Swingle accepted a position in Developmental-Behavioral Pediatrics.

The following Pediatric Faculty members were recognized by the COM students as Distinguished Faculty Members at the 2006 Honors Convocation: Drs. Samar Bhowmick, Judy Blair-Elortegui, Benjamin Estrada, Keith Peevy, Katrina Trammell, Franklin Trimm, and Felicia Wilson. The twelfth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship was Sara J. Belsches.

Thirteen of the graduating medical students chose residencies in pediatrics or combined medicine/pediatrics. Of the pediatric residents completing residency this year, one joined our Division of General Pediatrics, two entered private practice and two entered fellowship training. Our one medicine/pediatric resident completing residency entered private practice. On July 1, 2006, eight first-year residents entered the pediatric residency program, and five first-year residents entered the combined medicine/pediatrics residency program. Dr. Michael Strickland completed his duties as Pediatric Chief Resident, and Dr. Jamie Hixon-Griffin assumed Chief Resident duties.

The 2006 Children's Miracle Network was very successful, raising a record $644,800 to benefit the USA Children's and Women's Hospital.

The scholarly output of the Department of Pediatrics during the past year was productive. There were 32 original articles published or in press, and 14 published abstracts by faculty members of the department.

The activities of the Center for Chronic Diseases in Children have expanded during the past year. The Center, which is focused on designing and implementing new approaches for comprehensive healthcare delivery to children who suffer from chronic health disorders, has active programs for children with diabetes, developmental disorders, and obesity. A novel school-based community outreach program for children with asthma, the USA Breathmobile, has been developed and will commence visits to Mobile County schools in the fall, 2006. This program will partner with comparable programs that comprise a national network for the study and development of improved asthma treatment practices. New programs for assessing children with autism spectrum disorders and lipid disorders are also under development.
The Center will continue to serve as a focal point for coordinating and consolidating university and community programs that seek to meet the needs of children.

Major goals for the coming year include: 1) Ongoing development of computer applications that integrate and improve patient care activities, patient education practices, and clinical data collection; 2) Developing an intermediate care unit at USA Children’s and Women’s Hospital that provides medical care for children with chronic respiratory problems as well as education and training for family members; and 3) Enhance the regional role and national prominence of the USA Department of Pediatrics as an advocate and resource for efforts that champion the best interests of children. The department will continue to seek productive alliances with others in the community who are dedicated to this goal.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


Bailey SW, Ayling JE. Food and vitamin preparations containing the natural isomer of reduced folates. US1997001870 Can 2243981 patent. 2005 Sep.


B. Articles in press

Bailey SW, Ayling JE. Methods and compositions containing natural folates for protecting against radiation damage. PCT. Forthcoming.


Schaffer SW, Mozaffari MS. Angiotensin III signaling, cell growth and apoptosis. Springer Verlag, editors. Forthcoming.


Solodushko V, Gavin E, Gard AL. 4-Hydroxynonenal is a marker of oligodendrocyte membrane lipid peroxidation and addsucts structural proteins of the myelin sheath. Forthcoming.


II. PUBLISHED ABSTRACTS


Chen HR, Zhou C, Creighton J, Sellak H, Wu SW. Regulation of Ca,3.1 T-type Ca\textsuperscript{2+} channel expression by cAMP in pulmonary microvascular endothelial cells. FASEB J 2006;20(4 pt 1):A749. Abstract no. 469.25.


Cioffi, DL, Cioffi EA, Stevens T. Regulation of endothelial l


Pastukh VM, Ruchko MV, Gillespie MN. Hypoxia-induced oxidative modification in the pulmonary artery endothelial cells (PAEC) VEGF gene that are confined to its promoter. FASEB J 2006;20(4 pt 1):A794. Abstract no. 481.25.


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Alvarez DF, King JA, Liedke W, Townsley MI. Activation of TRPV4 increases endothelial permeability in lung septal capillaries. Paper presented at: FASEB Meeting; 2006 Apr 1-5; San Francisco, CA.

Alvarez D, Yoder MC, Huang L, King JA, Stevens T. Adult lung microvascular endothelium is enriched with high proliferative potential progenitor cells that possess angiogenic capacity. Paper presented at: Gordon Conference; 2006 Aug 6-11; Biddeford, ME.


Ju J. Biomarker discovery for sarcoma. Poster presented at: Sarcoma Research Group, MD Anderson Cancer Center; 2006 Jul 28; Houston, TX.


Ju J. Pharmacogenomics approaches for cancer target and biomarker discovery. Paper presented at: Beijing Capital Medical University: College of Pharmacy; 2006 Jul 3; Beijing, China.


King JA, Shevde LA, Ofori-Acquah SF. The role of microcopy in evaluating ALCAM in the lung. Paper presented at: Southeastern Microscopy Society Meeting; 2006 Mar 29-31; Gatlinburg, TN.

Rich TC. The role of phosphodiesterase activity in controlling compartmentalized cyclic nucleotide signals. Paper presented at: Gordon Research Conference on Cyclic Nucleotide Phosphodiesterases; 2006 Jun 5-7; Biddeford, ME.

Riker A, Fodstad O, Ju J, Sondak V. Comparative whole genome expression profiling yields a transition point for melanoma tumor progression. Paper presented at: Perspectives in Melanoma X and The Third International Melanoma Research Congress; 2006 Sep 14-16; Amsterdam, The Netherlands.

Schaffer SW. Role of apoptosis in diabetic complications. Paper presented at: University of Medicine and Pharmacy of Ho Chi Minh University; 2006 Jan 26; Ho Chi Minh City, Viet Nam.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Michael D. Chinkers is a reviewer for Biochemistry and Structure. He also serves on the American Heart Association Peer Review Study Group on Basic Cell and Molecular Biology, Southeast, Ohio Valley, and Florida/Puerto Rico affiliates.

Dr. Mark Gillespie serves on the Editorial Board, Am J Physiol, Lung Cell and Mol Physiol; and as a manuscript reviewer for all major journals relevant to his field of research. He serves on the Program, Leadership, and Long Range Planning Committees of the American Thoracic Society. He was a member, either on a regular or an ad hoc basis of a number of NIH study sections, including: SBIR/STTR Study Section; PPG Study Sections (2), Special Emphasis Panel (1), Lung Cell and Molecular Immunology study section (1). He was Chair of a National Institutes of Health Special Emphasis Panel reviewing SCCOR grants on pulmonary hypertension. For the American Lung Association, Dr. Gillespie serves on the Peer Review Panel A and on the Lung Cancer Research Peer Review Panel.

Dr. Jingfang Ju is an Ad Hoc member of NCI IMAT Grant Review Panel; Ad Hoc Member of NCI Emerging Technology for Cancer Research Rb21/.R33 Review Panel, and Ad Hoc member of NCI K- and R- Training Grant Review Panel.

Dr. Judy King is the 2005-2006 President for the Southeastern Electron Microscopy Society. She is a member of the Southern Medical Association where she serves as Councilor, Co-Chairman of the Advisory Committee on New Physicians, Coordinating Committee on Education member, Coordinating Committee on Long Range Planning member, Advisory Committee on Grants and Scholarships member, Advisory Committee on Scientific Activities co-chairman, and Coordinating Committee on Membership member. She reviews manuscripts for Food Chem Toxicol and Microvasc Res.

Dr. Jack Olson is a member of the Pulmonary Hypertension Breakthrough Initiative (PHBI) Steering Committee.

Dr. Thomas Rich is a Discussion Leader, PDE compartmentalization, Gordon Research Conference on Cyclic Nucleotide Phosphodiesterases, Biddeford, ME. He is also an Ad hoc reviewer for the Am J Physiol – Lung.
Dr. Rajeev Samant is a Co-chair of the Susan G. Komen Breast Cancer Foundation research grants (Tumor Cell Biology I study section and Detection/diagnosis/prognosis study section); a Scientific Advisor for Advocate Reviewers Meeting (Susan G. Komen Breast Cancer Foundation research grants; a Reviewer, DOD, Breast Cancer Research Program, Concept-Clinical and Experimental Therapeutics #2, Con-Cet-2; a Reviewer DOD, 2006 PCRP Clinical and Experimental Therapeutics #2 Scientist Reviewer (PC CET-2). He reviews manuscripts for Cancer Research, Clinical & Experimental Metastasis, and an Ad hoc reviewer for the International Journal of Cancer.

Dr. Steve Schaffer is on the Editorial Board (Molecular Cellular Biochemistry); Section Editor (Amino Acids), and Study Section – National Institutes of Health Interdisciplinary Research Consortium I.

Dr. Troy Stevens is the PC Assembly Program Chair, APS; Microvasc Res, Associate Editor, Exp Biol Med, Editor. He is the Associate Editor of the Am J Phys: Lung Cell Mol Physiol. He serves on the Program Committee, Respiration Section of the American Physiological Society; member, Respiratory Integrative Biology Translational Medicine Study Section of the National Institutes of Health; and chair, Program Committee, Pulmonary Circulation Assembly of the American Thoracic Society. He is a member, Respiratory Integrative Biology and Translational Research (RIBT) Study Section, Center for Scientific Review, National Institutes of Health; Ad Hoc Program Project Grants, National Heart, Lung and Blood Institutes, Lung Biology and Pathology (LBPA) Study Section; and Ad Hoc, Veterans Administration Merit Awards. He is a manuscript reviewer for: Am J Physiol, Am J Respir Cell Mol Biol, American Review of Respiratory and Critical Care Medicine, Endothelium, European Journal of Respiratory Physiology, FASEB J, J Appl Physiol, J Clin Invest, Microvas Res, and Circ Res.

Dr. Wiltz Wagner received the Leadership Award of the Pulmonary Circulation Assembly of the American Society, 2005. He serves on the Steering Committee Grover Conference, Pulmonary Circulation Foundation (Treasurer); Program Committee, Pulmonary Circulation Assembly, American Thoracic Society; Planning Committee, Pulmonary Circulation Assembly, American Thoracic Society; Executive Committee, Pulmonary Circulation Assembly, American Thoracic Society; Ad hoc Study Section, National Institutes of Health.

Dr. Songwei Wu is on the Lung, Resuscitation and Respiration Peer Review Committee, American Heart Association National Center. He is also a reviewer for J Appl Physiol & Microcirc.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pharmacology was one of the University’s most productive academic units in terms of extramural awards for research. Some of the new grants received in 2005-06 include:

**Dr. June Ayling** received a 3-year NSF-EPSCoR grant for “Alabama Structural Biology Consortium” – USA Component. Total award is $175,000.

**Dr. Mark Gillespie** received a 2-year National Institutes of Health grant for project “DNA modifications in primary pulmonary hypertension.” Total award is $382,050. He was also co-investigator with Natavia Middleton, Graduate Student, for a 2-year American Heart Association grant entitled “Chromatin remodeling and vascular endothelial growth factor expression in hypoxia. Total award is $38,000.

**Dr. Judy King** received a 2-year American Heart Association grant for “Lung Endothelial ALCAM as a Determinant for metastasis.” Total award is $154,000.

**Dr. Jack Olson** received a 5-year American Heart Association grant for “Polyamines and human pulmonary artery hypertension.” Total award is $954,905.

**Dr. Thomas Rich** brought 3 grant awards to the Pharmacology Department: a four-year National Institutes of Health grant entitled “Cyclic AMP signaling in cardiac myocytes.” Total award is $775,000; a five-year National Institutes of Health grant entitled “Modeling β2 receptor activity in a cellular environment.” Total award is $463,875; and an American Heart Association grant entitled “Real-time measurement of cGMP signals in single cardiac myocytes.” Total award is $236,364.

**Dr. Rajeev Samant** received a 2-year Susan G. Komen Foundation grant for “MRJ: a molecular switch for cell cycle and cancer metastasis.” Total award is $250,000. He is co-investigator with Lewis Pannell, Mitchell Cancer Institute, for a 2-year NIH/NCI grant for “Automated glyco-analysis of cancer related proteins.” Total award is $300,000.

**Dr. Troy Stevens** received a 4-year National Institutes of Health Competitive Renewal grant entitled “Store operated calcium entry: Endothelial permeability.” Total award amount is $1.25 million. He is a co-investigator with Donna Cioffi, Graduate Student, for a 2-year American Heart Association grant for “Molecular determinants of lung endothelial l$_{soc}$ activity.” Total award is $75,000. He also received a 5-year National Institutes of Health grant for “Lung endothelial cell phenotypes.” Total award is $8,517,182.
Dr. Bing Zhu received a 2-year American Heart Association grant for “cGMP phosphodiesterase 5 in control of apoptosis and growth inhibition in lung endothelium.” Total award is $110,000.

The Department of Pharmacology had four graduate students receive their Ph.D. in 2005-2006. Dr. Sarah Sayner received her degree in September 2005. Her dissertation was entitled “The pseudomonas aeruginosa adenyl cyclase toxin ExoY disrupts the pulmonary endothelial barrier.” Her major professor was Dr. Troy Stevens. Dr. Donna Cioffi received her Ph.D. in March 2006. Her dissertation was entitled “Contribution of protein 4.1 to endothelial store-operated calcium entry.” Her major professor was Dr. Troy Stevens. Dr. Kathy Gross received her Ph.D. in June 2006. Her dissertation was entitled “The role of FK506-binding proteins in intracellular signal transduction pathways.” Her major professor was Dr. Jonathan Scammell. Dr. Judy Creighton received her Ph.D. in August 2006. Her dissertation was entitled “Spectrin-anchored phosphodiesterase 4D4 restricts cAMP to endothelial membrane barrier enhancing domains.” Her major professor was Dr. Troy Stevens.

The Department of Pharmacology hosted visits by several distinguished scientists: Drs. Asrar Malik (University of Illinois Chicago), Dr. Wolfgang Dillmann (University of California San Diego), Dr. Donald M. McDonald (University of California San Francisco), and Dr. Warren Kruger (Fox Chase Cancer Center, Philadelphia).

The Department of Pharmacology received the Best Basic Science Course Award from the 2006 class of graduating medical students. The Department’s graduate students also received the “Best Teaching” award from the 2006 BEAR student class.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full length published articles and book chapters


Kuno A, Critz SD, Cohen MV, Downey JM. Nicorandil opens mitochondrial K_ATP channels not only directly but also through a NO-PKG-dependent pathway. Basic Res Cardiol 2006 Aug 14 [cited 2006 Aug 29]. Available from: http://www.springerlink.com/content/0h9t206038511588


B. Articles in press


II. PUBLISHED ABSTRACTS


Taylor MS. Small-conductance Ca²⁺-activated K⁺ (SK3) channels alter myoendothelial calcium signaling in intact coronary arteries. Circulation 2005 Nov 112(17);Suppl II:260.


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Cohen MV. PKG in ischemic preconditioning and ANP treatment. Paper presented at: 11th International Symposium on Adenosine, Cardioprotection and Its Clinical Application; 2005 Nov 11-16; Dallas, TX.

Downey JM. Protecting the ischemic heart. Paper presented at: Turkish Congress of Pharmacology; 2005 Sep 27-Oct 5; Izmir, Turkey.


Downey JM. Protecting the ischemic heart. Paper presented at: Second Conference of Jordanian Medical Schools; 2006 Apr 11-18; Irbid, Jordan.


Iliodromitis EK, Georgiadis M, Cohen MV, Bofilis E, Kremastinos DT, Downey JM. Protection from postconditioning depends on the number of the short ischemic insults in anesthetized pigs. Poster presented at: World Congress of Cardiology; 2006 Sep 2-6; Barcelona, Spain.


Lincoln TM. Regulation of smooth muscle specific gene expression by NO-cGMP signaling pathways: role of sumoylation. Paper presented at: University of Alabama at Birmingham Annual Vascular Biology and Hypertension Symposium; 2005 Oct 6-9; Destin, FL.

Lincoln TM. Regulation of vascular smooth muscle cell gene expression by cyclic GMP. Paper presented at: St. Boniface Hospital Research Center; 2005 Nov 14-16; Winnipeg, Manitoba, Canada.


Parker JC. Total liquid ventilation cooling to protect against ischemia. Paper presented at: Department of Physiology, Medical College of Georgia; 2006 Mar 9; Augusta, GA.


Philipp S, Krieg T, Cui L, Critz SD, Cohen MV, Downey JM. DADLE but not bradykinin activates Src and PI3-kinase through the EGF receptor. Poster presented at: World Congress of Cardiology; 2006 Sep; Barcelona, Spain.

Taylor MS. Small-conductance Ca\textsuperscript{2+}-activated K\textsuperscript{+} (SK3) channels alter myoendothelial calcium signaling in intact coronary arteries. Paper presented at: American Heart Association Scientific Sessions; 2005 Nov 11-16; Dallas, TX.

Taylor MS, Adelman JP, Bond CT. Augmentation of spontaneous endothelial Ca\textsuperscript{2+} events by small conductance Ca\textsuperscript{2+}-activated (SK3) K\textsuperscript{+} channels. Poster presented at: FASEB Summer Conference: Smooth Muscle; 2006 Jul 29-Aug 3; Snowmass, CO.

Yang XM, Philipp S, Davis A, Downey JM, Cohen MV. PMA administered just before reperfusion salvages ischemic myocardium by an adenosine A2b-dependent mechanism. Poster presented at: International Society for Heart Research Annual Meeting; 2006 Jun 12-16; Toronto, Canada.

V. NATIONAL PROFESSIONAL RECOGNITION


Michael V. Cohen served in the following capacities: Editorial Board of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine.

James M. Downey served in the following capacities: Editorial board member for Circulation Research, Journal of Molecular and Cellular Cardiology, Basic Research in Cardiology, and Cardiovascular Pharmacology. Past-President of the International Society for Heart Research, an international organization with over 3,000 members worldwide.

Thomas M. Lincoln served in the following capacities: Editorial Board Member for Journal of Biological Chemistry, Molecular Pharmacology, and Journal of Vascular Research; reviewer for approximately 20 other journals. He also serves on National Institute of Health Vascular Cell Molecular Biology Study Section (Chair), Special Emphasis Panels for the National Heart Lung and Blood Institute (NHLBI), and service for the NHLBI as a special reviewer for Program Project Proposals and for Institutional Training Proposals.

James C. Parker served in the following capacities: NIH Special Emphasis on Perioperative Injury, Program Project Study Section. Reviewer: Journal of Applied Physiology; American Journal of Respiratory and Critical Care Medicine; Critical Care Medicine; and Pathophysiology.

Mark S. Taylor served in the following capacities: Reviewer: *American Journal of Physiology (Heart and Circulatory Physiology)*; *Journal of Biological Chemistry*.


VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Physiology fared reasonably well in overall extramural funding through 2005-06 in the face of markedly declining research funding from national sources. Overall funding was over $1.5 million for the fiscal year while newly appointed investigators especially sought extramural research funding. Dr. Jian Yang, Assistant Professor, was awarded a 4-year Scientific Development Grant for $260,000 from the American Heart Association. The grant is entitled “The Roles of AMPK in Lipid Metabolism in Living Animals.” Additional grant proposals were submitted to the NIH, American Heart Association, and American Diabetes Foundation by faculty from the Department of Physiology and are awaiting award status.

Several members of the faculty in the Department of Physiology delivered lectures at national and international meetings as well as various institutions both domestically and internationally. The faculty in the Department of Physiology continue to serve in high visibility positions in the scientific community. Dr. Lincoln continued his service on the Vascular Cellular and Molecular Biology (VCMB) Study Section of the Center for Scientific Review with the NIH, and was appointed Chair of the Study Section for 2005-2007. Drs. Townsley and Lincoln serve on several national committees of the American Physiological Society and American Heart Association. Drs. Ballard, Cohen, Downey, Lincoln and Townsley serve on the Editorial Boards of various scientific journals.
The Department of Physiology welcomes second-year Basic Medical Sciences (BMS) graduate student, Ms. Amanda Davis, who is currently working in the Department of Physiology. Faculty from the Department of Physiology participated in the Summer Medical Student Research Program with Drs. Tom Lincoln, Mark Taylor, Jim Parker, and David Weber sponsoring medical student projects, while Dr. Steve Ballard sponsored Summer Undergraduate Research through the Honors Research Program.

With regard to teaching and training activities, Dr. Lincoln directed the “Advanced Signal Transduction” course for 2005-06, and Dr. Townsley was 2005-06 course director for “BioStatistics and Experimental Design” and Dr. Taylor directed “Literature Reports” for first-year graduate students in 2006. Dr. Townsley continues to serve as the Principal Investigator for the NIH Institutional Training Grant in Lung Biology. The Department also held a one-day Teaching Retreat in September, 2006 at the Brookley campus to continue to evaluate and improve the Medical Physiology course. Dr. Steve Ballard continued the directorship of the Medical Physiology course for 2005-06, and led discussions involving the course. Dr. Cohen continues to direct the small group/case studies component of the course while Drs. Downey, Cohen, Parker and Weber will continue to direct the Medical Physiology Laboratories. This forum allowed for the finalization of details for lecture presentation, textbooks, examinations, and other aspects of the Medical Physiology course for 2007.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters

B. Articles in Press


II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The full-time faculty has now shrunk to two. Efforts are mostly directed towards providing clinical care and overseeing the residency program which will hopefully be fully reaccredited this fall.

Departmental scholarly efforts are following established paths. Dr. Rich continues pursuing his scholarly work in suicidology. He serves on the editorial boards of two related journals, Suicide and Life Threatening Behavior and the Archives of Suicide Research. He is vice-president of the American Academy of Clinical Psychiatrists. Dr. Cepeda is still investigating underlying mechanisms of attention processing in Attention-Deficit/Hyperactivity Disorder in school children. Dr. Cepeda also continues to participate on a National Heart, Lung, and Blood Institute study section and to serve on the editorial Board of the Southern Medical Journal.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press


II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

118
IV. PRESENTATIONS


Brogdon BG. Appeared on the CBS Television Show, 48 Hours: Secrets from the Grave Aired on August 19, 2006.

Herbert D. Statistical analysis of clinical complication data. The Rubin-Casarett clinicopathological schema: jump-enhanced stochastic processes and stochastic bifurcations. Invited lecture presented: Dose, time and fractionation in radiation oncology: physical, chemical and biological targeting in radiation oncology. 7th International Conference, American Association of Physicists in Medicine; 2005 Sep 19; Madison, WI.

V. NATIONAL PROFESSIONAL RECOGNITION

Byron G. Brogdon serves on the Editorial Board of the Journal of Forensic Sciences; is a Member of the Advisory Board of Viritopsy Foundation, BerneSwitzerland; Chairman, Research Committee, Forensic Sciences Foundation; Member, Board of Trustees, Forensic Sciences Foundation.

Allan E. Green, Jr. continues to serve as Treasurer for the Southern Radiological Conference.

Maria Figarola was appointed as an alternate delegate to the American Medical Association as a University Radiologist. Additionally she has been appointed to the Association of University Radiologist.

Donald E. Herbert is on the Research Advisory Committee – American Institute of Physics Statistical Research Advisory Committee, Re-appointed to a 2nd 3 year term (2006-2009). He serves as a Consultant to Radiological Society of North America to develop multiple Self-Assessment Modules in the application of statistics for the American Board of Radiology (ABR)’s Maintenance of Certification Program from 2006 – Present. He is a member of the AAPM Bioeffects Working Group. He was a member of the Organizing Committee of the 7th International Conference on Dose, Time and Fractionation in Radiation Oncology. He serves as an Associate Editor for Medical Physics.

Steven K. Teplick is a manuscript reviewer for the American Journal of Gastroenterology, Journal of Vascular and Interventional Radiology, Journal of Radiology, Journal of Gastrointestinal Endoscopy, Kidney International, American Journal of the Medical Sciences, Journal of the Society of Cardiovascular and Interventional Radiology, and Kidney International. He is a member of the Education & Research Council for the Radiological Society of North American (RSNA) and is also an RSNA reviewer for Awards in Excellence in Research and Education and RSNA Grant Reviewer. Dr. Teplick was appointed to Chair the Professionalism Committee of the RSNA and is responsible for yearly refresher course and professionalism course at the annual RSNA meeting. Dr. Teplick is Secretary of the American College of Radiology – Alabama Academy of Radiology, and also serves as a Councilor.

Richard L. Wesenberg has reviewed numerous Diagnostic Radiology Residency Programs and has presented findings at the Diagnostic Radiology RRC Meetings in Scarborough, ME (October 2005) and Santa Barbara, CA (April 2006); reappointed AMA representative on the Residency Review Committee for Diagnostic Radiology in January 2004-2006 and serves as Vice-Chairman on Council on Medical Education – MASA-Medical Association of the State of Alabama in 2005 - 2006. Additionally, he has been appointed Association of University Radiologists (AUR), Representative to the American Medical Association House of Delegates in the fall of 2000-present; reappointed counselor from District 1 to MASA –Medical Association of State of Alabama 2006 -2010.

VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS

Dr. Maria Figarola continues to be the CME Director for the Department of Radiology. Dr. Figarola continues to bring in outside Radiologists/Speakers for Grand Rounds for the Department. Dr. Figarola continues to organize the Journal Club’s quarterly meeting.

Dr. Michael Harpen was recognized as Outstanding Physicist Professor, by the Graduating Residents/Class of 2006.

Dr. Donald Herbert continues to serve as Director of the COM Biostatistics and Epidemiology Core Unit and as Chairman of USA Department of Radiology Promotions and Tenure Committee.

Dr. Samuel McQuiston serves as the Director of Courses for COM students interested in Radiology as a profession and as part of their electives. Dr. McQuiston gives CME lectures on Thoracic Radiology and he also review cases of interest to residents. Dr. McQuiston gave 1st Year Orientation to 2006 incoming Radiology Residents. Dr. McQuiston serves as a member of USAMC Professional Improvement Committee. Serves as a member of the Radiology Residency Review Committee.

120
Dr. Brad A. Steffler continues to serve as Chief of Service of Interventional Radiology in the Radiology Department. Dr. Steffler serves as a member on the Cancer Care Committee. Dr. Steffler lectures on IR and Vascular Anatomy of Abdomen to Radiology Residents. Dr. Steffler participated in Medicine Grand Rounds as well as Surgery Grand Rounds. Dr. Steffler was honored with the Red Sash at Honors Convocation in May 2006 by the Medical School Graduating Class.

New Faculty Members for the Department are: Leigh Ann Cashwell, M.D., Yasmeen A. Qureshi, M.D., Todd B. Standley, M.D.

We have expanded our outreach and outside business contracts during the 2006 year. We now provide services to fourteen rural Alabama hospitals and clinics as well as seven VA hospitals and Military bases. In addition, we provide Radiologic coverage to the Franklin clinics.
2005-2006
Summary of Scholarly Activities
Department of Surgery

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


B. Articles in press

Costello MW, Bolling RP, Gonzalez RP. Colon perforation with high pressure water injection: a case report; Trauma. Forthcoming.


Friese R, Phelan H. Leukoreduction of packed red cells prior to transfusion does not affect survival in transfused trauma patients. Forthcoming.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

El-Badawi K, Phelan H, Gonzalez RP, Quindlen EA, Hassan M. Use of a non-protocol based training regimen for bolt placement by general surgery residents results in higher nonhemorrhagic complication rates. Poster presented at: American Association for the Surgery Trauma; 2006 Sep 30; New Orleans, LA.


Ellis CN. Pelvic floor reconstruction. Paper presented at: The American Society of Colon and Rectal Surgeons; 2006 Jun 6; Seattle, WA.

Ellis CN. Polyposis syndromes. Paper presented at: The American Society of Colon and Rectal Surgeons; 2006 Jun 7; Seattle, WA.

Gonzalez RP. Rural vehicular trauma in Alabama. Paper presented at: Alabama Chapter, American College of Surgeons; 2006 May 19; Sandestin, FL.

Gonzalez RP. Is fecal diversion necessary for non-destructive penetrating colon injuries? Paper presented at: Alabama Chapter, American College of Surgeons; 2006 May 19; Sandestin, FL.

Gonzalez RP. Fungal infection in the ICU. Paper presented at: Baptist Hospital Grand Rounds; 2006 Jan 20; Pensacola, FL.

Gonzalez RP. Is fecal diversion necessary for non-destructive penetrating extraperineal rectal injuries. Paper presented at: the Eastern Association for Surgery of Trauma; 2006 Jan 20; Orlando, FL.

126
Gonzalez RP. Pre-hospital care in the state of Alabama. Paper presented at: the State Emergency Medical Control Committee; 2005 Dec 6; Clanton, AL.


Hodge JS. Life after medical school, primary care versus specialty. Paper presented at: Student National Medical Association: 41st Annual Medical Education Conference; 2006 Apr 14; Atlanta, GA.


Phelan H, Friese R. Leukoreduction prior to red blood cell transfusion has no impact on mortality in trauma patients. Paper presented at: Academic Surgical Congress; 2006 Feb 7; San Diego, CA.


Scantlebury VP. Invited speaker. Renal disease and disparity. Paper presented at: Southeast Regional Nurses Conference; 2006 Mar 18; Mobile, AL.

Scantlebury VP. Invited keynote speaker. Women in medicine: the great contributors. Paper presented at: Women’s History Month, Centers for Disease Control and Prevention; 2006 Mar 22; Atlanta, GA.

Scantlebury VP. You have 2 kidneys, someone else needs 1. Paper presented at: Invited Grand Rounds, Medical College of Georgia; 2006 Mar 27; Augusta, GA.

V. NATIONAL PROFESSIONAL RECOGNITION

D. Lynn Dyess is a member of the Breast Disease Committee for the National Surgical Adjuvant Breast & Bowel Project (NSABP). She also serves as a member of the ACOS Council.

C. Neal Ellis serves as a Reviewer for Diseases of the Colon and Rectum, Current Surgery, and Surgical Endoscopy. He also serves on the following committees: Program Committee, Standards Committee, Quality Assessment and Safety Committee, and Chairman of the Subcommittee for Pelvic Floor Diseases of the American Society of Colon and Rectal Surgeons, Selected Abstracts Committee for Diseases of the Colon and Rectum, Patient Care Committee for American College of Gastroenterology, Research Committee for Research Foundation, American Society of Colon and Rectal Surgeons, and the Membership Committee and Flexible Endoscopy Committee of the Society of Gastrointestinal and Endoscopic Surgeons. He served as a member on the Genetic/Familial High-Risk Assessment, National Comprehensive Cancer Network (NCCN), and the Association of Program Directors (Colorectal) non-voting.

Richard P. Gonzalez continues to serve as a Manuscript Reviewer for the Journal of Trauma. He also serves on the Editorial Board of Current Surgery and the Medical Society of Mobile County Board of Censors.

Curtis N. Harris is a member of the American Society of Maxillofacial Surgery. He also serves on the Finance Committee and the Maxillofacial News Committee.

Arnold Luterman serves on the Editorial Board for the following journals: The American Surgeon, Current Surgery, New Directions in Critical Care Nursing, Journal of Burn Care and Rehabilitation, Journal of Burns. He also serves on the Ad Hoc Editorial Board and as a Reviewer for the Journal of Trauma and the Journal American College of Surgeons. He is a member of the Advanced Burn Life Support Committee American Burn Association and the Membership Committee for the International Burn Association.

Herbert Phelan, 3rd has membership in the Eastern Association for the Surgery of Trauma (EAST), the Association for Academic Surgery (AAS), and is a member of the Practice Management Guideline Committee for the Eastern Association for the Surgery of Trauma (EAST).

Charles B. Rodning is recertified in General Surgery by the American Board of Surgery, Inc. He was the recipient of the Physicians' Recognition Award from the American Medical Association. He is a Representative in the College of Medicine to Section of Medical Schools, Liaison Committee, Graduate Medical Education, and the American Medical Association. He was the Scientific Program Coordinator for the Alabama Chapter of the American College of Surgeons. He serves as a Honorary Member of the Board of Directors, Mobile (Eichold-Heustis) Medical Museum; a Physician Member of the American College of Surgeons Oncology Group; a member of the Board of Censors of the Medical Society, County of Mobile; a member of the Board of Directors in the Department of Public Health, County of Mobile; a member of the Mobile County Medical Reserve Corps, Department of Health and Human Services; a member, officer, and Councilor of the Alabama Chapter, American College of Surgeons; and a Member of the Alabama Quality Assurance Foundation. Dr. Rodning has also been elected to American Men and Women of Science (Jaques Catell Press), Who's Who in Science and Engineering (Marquis Who's Who Publication), Who's Who in the South and Southwest (Marquis Who's Who Publication), Who's Who in America (Marquis Who's Who Publication), Who's Who Among America's Teachers, Lexington Who's Who Registry of Executive and Professionals, International Who's Who of Professionals, and the Alabama Writers' Forum, Alabama State Council on the Arts.

Velma P. Scantlebury serves on the National MOTTEP Board of Governors, National Coalition on Donation Board of Directors, WebMD/Medscape Nephrology Editorial Board, WebMD/Medscape Transplantation Editorial Board, Board Member of Donate Life America (Formerly National Coalition on Donation, Advisory Committee on Organ Transplantation (ACOT) Department of Health and Human Services, Advisory Committee for Alabama Organ Center, United Network for Organ Sharing (UNOS) Hopefulness Subcommittee, UNOS Kidney Transplantation Committee, Paired Donation Consortium, American Society of Transplantation (AST) Diversity and Minority Affairs Committee.

V. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

In January, 2006, Dr. Charles B. Rodning was appointed Interim Chairman, and Dr. C. Neal Ellis, Jr. was appointed Residency Program Director, Department of Surgery. Those appointments and the shared leadership and responsibilities implied, have proven to be extremely effective in re-focusing collective initiatives in relationship to education, research, clinical service, and community involvement. Since those appointments and in conjunction with a very creative, energetic, and committed faculty and staff, we have pursued and/or accomplished the following (chronologically).
Active recruitment for additional colleagues in the disciplines of Traumatology/Surgical Critical Care, Pediatric Surgery, Head and Neck Surgery, and Urological Surgery has been a focus of intense efforts.

Development and enhancement of a simulation laboratory, which will become evermore important as part of graduate surgical educational endeavors.

Establishing and formalizing alliances with surgeons within our community who are keenly committed to graduate general surgical education. Dr. Gerhard A. W. Boehm, Mobile Infirmary Medical Center, Mobile, Alabama; and Dr. C. B. Smith, Dr. Jimmie N. Gavras, and Dr. Patrick D. Bosarge, Jr., Thomas Hospital/Mobile Infirmary Health System, Fairhope, Alabama; are actively involved in our educational programs at both the senior and junior graduate year levels.

Formal creation of a Division of Vascular Surgery with Cardiovascular Associates, P.C., Mobile, Alabama, including Dr. Michael E. Damrich, Dr. William R. Higgs, Dr. Ronald B. O’Gorman, Dr. Carl Maltese, Dr. Dimitris Kyriazis, and Dr. David H. Mull, has been accomplished. this cadre of individuals will provide Peripheral Vascular, Cardiovascular, and Thoracic surgical education and care. To an ever greater extent those disciplines are utilizing minimal access/minimal invasive technology.

Intimately involved in defining and catalyzing an evolving alliance with the Mobile Infirmary Health Care System.

Integrating with the University of South Alabama/Mitchell Cancer Institute, in the context of its primary focus in relationship to translational clinical investigational endeavors, under the direction of Dr. Adam I. Riker, Associate Professor, Department of Surgery, and Director, Division of Surgical Oncology.

Actively involved in creation of a Center for Renal Biology, to codify and coordinate the care of patients with renal insufficiency vis-à-vis prevention, diagnosis, and therapy, including transplantation, the latter under the direction of Dr. Velma P. Scantlebury and Dr. Mario Magnone. Recently a Transplantation Gala was held to celebrate a decade of service and to honor the memory of Dr. Ferdinand Ukah, founder of the program.
Strengthening a commitment to the acquisition of extramural funding in relationship to rural vehicular trauma under the direction of Dr. Richard P. Gonzalez, Professor, Department of Surgery, and Director, Division of Traumatology/Surgical Critical Care, and his colleague Dr. Herbert A. Phelan, III, Assistant Professor, Department of Surgery.

Involvement in several clinical translational investigational endeavors through the Office of Surgical Research, under the superb supervision and direction of Ms. Cathy Blache and Ms. Kelley P. Taylor.

With the retirement of the incomparable Ms. Cheryl Davis as Coordinator, Office of Surgical Education, Ms. Alma Platt was appointed as her successor.

Successful completion of the Program Information Form for and site visit by the Residency Review Committee for Surgery, Inc., which resulted in full approval of this graduate general surgical educational program.

Recognition of Dr. Velma P. Scantlebury, Professor, Department of Surgery, and Director, Division of Transplantation; and Dr. Arnold Luterman, Ripps-Meisler Professor of Surgery, Director, Burn and Wound Care Centers; Designated Institutional Officer; and Assistant Dean, Graduate Medical Education; as Best Doctors in America.

Dr. Moustafa A. O. Hassan, Assistant Professor, Department of Surgery, was appointed Coursemaster, Core Surgical Rotation, Junior Medical School Year. Didactic lectures and dialogic sessions were added and were directed at providing each student with the fundamental knowledge and skills for the more common surgical conditions. Students are responsible for being able to diagnose and prepare patients for operative intervention; discuss options with patient and families; understand potential morbidities and management options for planned procedures; and participate in the perioperative management of patients.

Dr. James Hassell, Adjunct Associate Professor, Department of Surgery, created and coordinated a new course regarding medical decision making for sophomore medical students, to enhance effective reasoning skills.

The Department of Surgery became a member institution of the American College of Surgeons Oncology Group, with several protocols currently active, under the direction of Dr. C. Neal Ellis, Jr., Associate Professor, Department of Surgery, and Director, Division of Colorectal Surgery; and Dr. D. Lynn Dyess, Professor, Department of Surgery, and Director, Division of Endocrinologic Surgery.
Dr. Juvonda S. Hodge was selected to participate in Leadership Mobile, a very prestigious local civic organization, and was also acknowledged as a "Rising Star" by the Young Women's Christian Association. Numerous presentations-from-platform and publications in the peer-reviewed literature by residents and faculty at the local, state, regional, and national levels.

The aforementioned are but a few of the initiatives of the residents, faculty, and staff of the Department of Surgery at this institution. Collectively we are committed to fulfilling the missions of the institution in relationship to undergraduate and graduate general surgical education, research, clinical service, and community involvement. Collectively we are energized by the opportunities presented and momentum generated this year.
1. **PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS**

A. **Full-length published articles and book chapters**


**Williams TL, Lindsay JM, Burnham JF.** Online vs print journals: new challenges for academic medical libraries. JERML 2006;3(1):1-8.

B. **Articles in press**

**Clanton CC, Staggs GB, Williams TL.** Evaluating a chat reference service at the University of South Alabama’s Baugh Biomedical Library. In: Diamond T, Sanders M, editors. Reference assessment and evaluation. Forthcoming.


**Wu WG, Li J.** RSS made easy: a basic guide for librarians. Med Ref Serv Q Forthcoming.
II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

**Burnham J.** Using PDAs in clinical practice. Continuing education session presented at: Medical Association of the State of Alabama Annual Meeting; 2006 May 4; San Destin, FL.

**Burnham J., Lindsay M.** Rejuvenating the collection assessment program. Paper presented at: Southern Chapter/Medical Library Association; 2005 Oct 20-24; San Juan, Puerto Rico.

**Clanton C.** Schizophrenia: emerging from the darkness. Poster presented at: Medical Library Association Annual Meeting; 2006 May 19-24; Phoenix, AZ.

Fell DW, **Burnham J.** Update your practice with ease: how to locate and obtain articles, books & internet sites to support evidence-based practice. Continuing education session presented at: Mobile Area Physical Therapy Organization; 2006 Aug 22; Mobile, AL.

Fell D, **Burnham J., Caswell C, Nuchereno A, Smolinski A, Wood C.** Effectiveness of database searching in physical therapy: comparing the search methods of novices, biomedical librarians, clinicians, and faculty members. Poster presented at: University of South Alabama Physical Therapy Department Student Research Day; 2006 Jul 11; Mobile, AL.

**Li J.** Building successful international library partnerships. Poster presented at: Medical Library Association Annual Meeting, 2006 May 19-24; Phoenix, AZ.

**Li J.** Stay informed: really simple syndication (RSS) made easy. Poster presented at: Medical Library Association Annual Meeting; 2006 May 19-24; Phoenix, AZ.

**Lindsay JM, Wheeler KP, Li J, Williams PM.** Electronic journal management systems: a comparison. Poster presented at: Medical Library Association Annual Meeting; 2006 May 19-24; Phoenix, AZ.

Roussel L, **Sayed EN.** Integrating biomedical information resources into revised undergraduate nursing research courses: a pilot study. Poster presented at: 2006 Summer Institute on Evidence-Based Practice; 2006 Jun 29-Jul 1; San Antonio, TX.
NATIONAL PROFESSIONAL RECOGNITION

Judy Burnham continues to be active in the Medical Library Association (MLA). She served as a member of the Estelle Brodman Academic Medical Librarian of the Year Jury for 2005-2006 and is serving as Chair of this Jury for 2006-2007. She is the Section Council Representative for the MLA/Nursing and Allied Health Resource Section and is serving on the Planning Group for Health Information Literacy Session for MLA 2007. She is serving as Program Planning Chair of the Southern Chapter/MLA 2007 meeting and serves as a Research Mentor for the Chapter. She chairs the Alabama Health Libraries Association Liaison Committee. She serves on the Alabama Health InfoNet Advisory Board and also serves on the Mobile Area Health Literacy Group. She has received notification of her renewal in the Academy of Health Information Professionals at the Distinguished Level. Judy received a grant from the Southeastern Atlantic/National Network of Libraries of Medicine to host a CyberCafe at the annual meeting of the Medical Association of the State of Alabama.

Clista Clanton served on the MLA EBSCO Grant Jury for 2005-2006. She completed her tenure as co-editor of Southern Expressions for the Southern Chapter/MLA and as a member of the Chapter’s Executive Committee. She continues her service on the Continuing Education Committee of the Network of Alabama Academic Libraries.

Jie Li continues to serve as editor of MLA News International News Column and continues as Chair of the Committee of Health Library Partnerships of the MLA/International Cooperation Section. She is also Chair of the Bylaws Committee of the Southern Chapter/MLA.
J. Michael Lindsay is serving as Chair of the Southern Chapter/MLA Public Relations Committee and Member-at-Large on the Alabama Health Libraries Association Executive Board. He is a member of the Recruitment Task Force for the Network of Alabama Academic Libraries. He also served on a focus group for SAGE Publishing Company.

Justin Robertson continues to be very active in the Alabama Health InfoNet/GoLocal Project, serving as Project State Administrator, the Advisory Board, the Standards Committee and its Education Committee. Justin completed his tenure as co-editor of Southern Expressions, the newsletter of the Southern Chapter/MLA. Justin is Web Master/Coordinator for several associations including; Southern Chapter/MLA, the Alabama Health Libraries Association, the MLA/International Cooperation Section, as well as this library’s web guru. He also serves on the Sister Library Association Committee of the MLA/International Cooperation Section. He is a member of the University Library Online Content Committee of the Network of Alabama Academic Libraries. Justin has been appointed to the Editorial Board for the Journal of Electronic Resources in Medical Libraries. Justin serves on the Fairhope (Alabama) Public Library Board of Trustees and on the Fairhope Public Library Technology Committee. He has also been appointed to serve on the Technology Committee of the National Network of Libraries of Medicine (NN/LM) Southeastern/Atlantic (SE/A) region.

Ellen Saved was appointed as Chair-Designate of the MLA Publications Committee, and serves as editor of the MLA/International Cooperation Section Newsletter. She serves as a member of the Professional Development Committee of the Southern Chapter/MLA and is President-Elect/Program Planning Chair of the Alabama Health Libraries Association. Ellen has been appointed to the Outreach to Health Professionals Committee for the National Network of Libraries of Medicine (NN/LM) Southeastern Atlantic (SE/A) region.

Geneva Staggs continues to serve on the Alabama Public Library Service LSTA Council. In 2005 she served as Past President/Nominating Committee Chair of the Alabama Health Libraries Association.

Thomas Williams is currently serving as Chair of the MLA/International Cooperation Section. He is also Chair of the MLA Cunningham International Fellowship Jury and serves, ex-officio, on the ICS Cunningham Fellowship Itinerary Committee. In addition, Tom serves on the NIH/National Library of Medicine World Toxicology Project Review Panel.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

As shown by the above, the faculty and staff of the Biomedical Library continue to be very active professionally both with service and publications. The library and the University at large has benefited from the increased visibility and national recognition of BML faculty and staff. Budget permitting, it is expected that BML employees will continue their success at the local, state, regional, and national levels.

The retirement of Diane Williams gave the Biomedical Library the opportunity to examine professional staffing and job responsibilities. Ellen Sayed transferred to the Head of Technical Services position, while Justin Robertson assumed responsibility for the Interlibrary Loan Department and for the SOUTHmed Information Network outreach program. He maintains his position of WebMaster. Clista Clanton became the Education Librarian while maintaining her supervision of the COM Computer Lab and the Multimedia Lab. A new position, Evening Services Librarian, was created and Trey Lemley was hired for that position.

New resources added this year include Exam Master, an online tool for USMLE testing, Access Medicine, a resource that includes books, images and a diagnostic tool, and Scopus, a database that includes the citations from MEDLINE, EMBASE and Compendex. With Scopus, users can search cited references as well as the citations themselves.

The Interlibrary Loan Department began using Illiad, a system that the client can use to track ILL requests. Library staff and faculty attended Banner classes in order to make the transition to the new system.

The Library hosted an NCBI training session for COM faculty, with an instructor provided by NCBI. The second annual New Faculty Tea was held to acquaint new faculty with the resources of the Biomedical Library. The Biomedical Library also participated in the COM New Faculty Orientation.

A six-month Clinical Medical Librarian project is being conducted at USAMC and C&W. Librarians participate in various committees at each hospital providing resources needed for deciding policy and procedures.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


139


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Ferrige T, Alecio R, Ray S, Pannell LK. Comparison of methods for detecting and deisotoping weak, high charge signals in data. Poster presented at: American Society for Mass Spectrometry; 2006 May 28; Seattle, WA.


Hurst DJ, Mehta A, Moore BP, Phadke PA, Meehan WJ, Accavitti-Loper MA, Shevde LA, Hopper JE, Welch DR, Samant RS. Breast cancer metastasis suppressor 1 is stabilized by the Hsp90 chaperone complex. Poster presented at: 11th International Congress of the Metastasis Research Society, (joined with 15th Annual Meeting of the Japanese Association for Metastasis Research); 2006 Sep 5; Rakushina, Japan.

Ju J. Biomarker discovery for sarcoma. Poster presented at: Sarcoma Research Group, MD Anderson Cancer Center; 2006 Jul 28; Houston, TX.

143


Riker A, Fondstad O, Ju J, Sondak V. Comparative whole genome expression profiling yields a transition point for melanoma tumor progression. Paper presented at: Perspectives in Melanoma X and The Third International Melanoma Research Congress; 2006 Sep 14-16; Amsterdam, The Netherlands.


Xi Y, Nakajima G, Hamil T, Fondstad O, Riker A, Ju J. IFGBP-3 expression is associated with tumor progression in melanoma. Poster presented at: Keystone Melanoma Conference; 2006 Jan 20; Sante Fe, NM.

V. NATIONAL PROFESSIONAL RECOGNITION

Michael R. Boyd
Ad Hoc Reviewer for Board of Scientific Counselors
National Institute on Aging
Technology Development Consultant, Office of Technology Transfer,
National Institute of Health
Member, Editorial Board, Journal of Antibiotics
Member, Commentaries Editorial Board, Biochemical Pharmacology
Oystein Fodstad
Editorial Board of Clinical & Experimental Metastasis
Lung Cancer Committee Member
American Lung Association
Cancer Study Section
J. Experimental Therapeutics and Oncology
Pathology and Oncology Research
Cancer Society for Melanoma Research Steering Committee Member

Jingfang Ju
Ad Hoc Member of NCI IMAT Grant Review Panel
Ad Hoc Member of NCI Emerging Technology for Cancer Research R21/R33 Review Panel
Ad Hoc Member of NCI K- and R- Training Grant Review

Lewis Pannell
American Society for Mass Spectrometry
Washington Academy of Sciences
Board Member NIST/EPA/NIH Mass Spectral Library
Editorial Board Membership - Biomacromolecular Mass Spectrometry

Rajeev S. Samant
Reviewer, Susan G. Komen Breast Cancer Foundation
Scientific Advisor for Advocate Reviewers (Susan G. Komen Breast Foundation)
Reviewer, DOD, Breast Cancer Research Program, Concept-Clinical and Experimental Therapeutics #2, CON-CET-2
Reviewer, DOD, PCRP Clinical & Experimental Therapeutics #2 Scientist Reviewer (PC CET-2)
Ad-Hoc Reviewer, Cancer Research, Clinical & Experimental Metastasis International Journal of Cancer

Lalita Shevde-Samant
The Susan G. Komen Breast Cancer Foundation
Department of Defense, Breast Cancer Research Program
Sigma Xi: The Scientific Research Society

Philip Wade
American Medical Association
Member, American Society of Clinical Oncology
Member, American Society of Hematology
Member, AOA Medical Honor Society
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The overarching strategic goal of the USA Mitchell Cancer Institute (USA-MCI), to achieve National Cancer Institute (NCI) designation as a Comprehensive Cancer Center within the next decade and to provide our region with world-class cancer research, prevention and treatment programs, remains on target. Fiscal Year 2006 activities were all aimed at achieving this goal.

The greatest milestone for us was our name change to the USA Mitchell Cancer Institute in March 2006 when the Mitchell Family provided a $22 million gift to the Cancer Institute as a remarkable kick-off to the USA Leadership Campaign. This generous gift enables us to accelerate our growth while maintaining our focus on developing world class clinical and research programs for our region.

Under the leadership of Michael Boyd, M.D., Ph.D., the USA Mitchell Cancer Institute launched new programs and achieved new milestones, including:

Growth in staff to over 89 employees.

Further expansion of the Center of Basic and Translational Science, headed by Oystein Fodstad, M.D., Ph.D. To date, the core group of nine Principal Investigators has secured eight peer-reviewed and funded research grants. In addition, Dr. Fodstad was presented Norway’s top lifetime achievement award in cancer research by the King of Norway in June 2006.

Further expansion of the Medical Oncology Service with planned relocation of this service to One Mobile Infirmary Circle on the Mobile Infirmary Campus in Fall 2006.
Further expansion of the Clinical Trials Service, with eight clinical trials open and an additional six pending IRB review and approval.

Recruitment of a second Radiation Oncologist, Roy Buchsbaum, M.D., to join the thriving Division of Radiation Oncology.

Recruitment of Adam Riker, M.D. as senior staff surgeon and Chief of Surgical Oncology Services at the USA MCI. Dr. Riker completed a three-year surgical oncology fellowship at the National Institutes of Health, National Cancer Institute, Surgery Branch, and joined the USA MCI in June 2006. Prior to joining us, Dr. Riker served in the Department of Interdisciplinary Medicine at H. Lee Moffitt Cancer Center in Tampa, Florida. Dr. Riker is also the first recipient of the Abraham A. Mitchell Clinical Cancer Research Scholarship, recognizing a $1 million gift from local businessman and philanthropist Abraham Mitchell to establish Riker’s cancer research program.

Further expansion of the Community Outreach, Information and Education Division, under the leadership of Raymond Wynn, M.D., the Division’s Associate Director for Community Outreach and Elsie Colle Chair. In Fiscal Year 2006, the Division established a Patient Navigation Program, staff became active participants in the Alabama Comprehensive Cancer Control Coalition (ACCCC), and the Division launched several significant community outreach and information events. In addition to the eight funded basic and translational research grants listed above, the Division of Community Outreach, Education and Information has been funded for two exciting projects. A grant from the ACCCC/Alabama Department of Public Health, to conduct a comprehensive Community Assessment with Dr. Wynn as Principal Investigator, was awarded in FY 2006. A grant from the Community Foundation of South Alabama, entitled “Literacy, Culture & Pap Testing Adherence among Vietnamese-American Women”, with Dr. Khong as the Principal Investigator, was awarded in August 2006.

In addition to these program expansions and new developments, construction on our new 120,000 square foot integrated clinical and research building began in January 2006. This state of the art facility, located on 6.5 acres adjacent to the Mobile Infirmary Medical Center and USA Children’s and Women’s Hospital, will provide a “window of hope” to patients and their families receiving cancer services in our region. Completion of the building is estimated for Fall 2007.

The last year has been exciting and we look forward to continuing our strategic growth in Fiscal Year 2007 as we move to one integrated location. We look forward to continuing to work with our Alliance partner, the Mobile Infirmary, and the USA health system, to develop premier cancer services in our region and advance cancer research.
2005-2006
USA Center for Lung Biology
Summary of Activities

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 30 faculty members 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.

Our administrative office is located in the new expansion area of the Medical Sciences Building in Room 3340. 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, a patient information page, and information regarding scientific and training programs. A more extensive annual report for our center is available through Ms. Charlene Jordan (251-460-7086) 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 Federation of American Societies for Experimental Biology, the International American Thoracic Society, the American Association for Cancer Research, and the International Society for Stem Cell Research. Two of our graduate students received travel awards to attend the 2006 Experimental Biology meeting. Ms. Natavia Middleton received a Minority Graduate Student Travel Award from the Minority Access to Research Careers Program and the American Society for Pharmacology and Experimental Therapeutics. Mr. Nutan Prasain received a Research Recognition Award sponsored by the Respiratory Section of the American Physiological Society.

The CLB hosted two Distinguished Scientist Seminars. Our first guest, Dr. Mervin C. Yoder, Jr. is a Richard and Pauline Klingler Professor of Pediatrics, and Professor of Biochemistry and Molecular Biology at Indiana University School of Medicine. Dr. Yoder’s presentation was entitled Defining Progenitors of the Endothelial Lineage. Our second guest, Dr. Duncan Stewart, is a Dexter Hung-Cho Man Chair at the University of Toronto and Director, Division of Cardiology at St. Michael’s Hospital in Toronto, Ontario. His presentation was entitled Pulmonary Microvascular Regeneration: A New Therapeutic Paradigm for PAH.
Extramural Funding

In the past year, CLB principal investigators have submitted 23 grant applications to the American Heart Association (AHA), the Cardiovascular Medical Research and Education Fund (CMREF), and NIH. Eleven of these applications were awarded generating over 12.8 million in new revenue over the next five years. This represents a 48% success rate in grant submission.

The Center received its largest award to date this year with the competitive renewal of the NIH Program Project Grant (PPG) entitled Lung Endothelial Cell Phenotypes in which Dr. Troy Stevens serves as principal investigator. The PPG was awarded for 8.5 million dollars and consists of four inter-related projects that focus on pulmonary vascular disease. Other project leaders involved in the PPG are Drs. Mark Gillespie, Mary Townsley, and Songwei Wu. Drs. Mikhail Alexeyev and Judy King operate two affiliated research cores, Gene Delivery and Tissue Culture, and Ms. Charlene Jordan and Ms. Judy Naylor operate the affiliated Administrative Core.

Additional research support received includes an Exploratory and Developmental research grant from NIH awarded to Dr. Mark Gillespie. Dr. Jack Olson received a research grant from the Cardiovascular Medical Research and Education Fund as part of the Research Network in Idiopathic Pulmonary Arterial Hypertension. Dr. Thomas Rich received a research grant and a K02 Career Development grant from NIH, along with a Scientist Development Grant from the AHA, National Center. Dr. Troy Stevens received a competitive renewal research grant from NIH and four additional grants were received from the AHA, Southeast Affiliate. Dr. Donna Cioffi received a Postdoctoral Fellowship sponsored by Dr. Troy Stevens, Dr. Judy King received a Grant in Aid, Ms. Natavia Middleton received a Predoctoral Fellowship sponsored by Dr. Mark Gillespie, and Dr. Bing Zhu received a Beginning Grant in Aid.

Recruitment Activities

An objective of the CLB is to enhance clinical, translational, and basic research in the pulmonary sciences. As part of this initiative, the Center is recruiting research scientists at all academic ranks and across disciplines. Three new faculty members have accepted positions this past year. Dr. Wiltz W. Wager, Jr., former Vergil K. Stoelting Professor Emeritus of Anesthesia at Indiana University School of Medicine accepted a position as Professor in the Department of Pharmacology. Dr. Wagner’s research interests are pulmonary microcirculation, hemodynamics and distribution of flow.
Dr. Thomas C. Rich also joined the Department of Pharmacology as an Assistant Professor. Dr. Rich was previously an Assistant Professor in the Department of Integrative Biology and Pharmacology at the University of Texas at Houston Medical School. His research focuses on signal transduction in vascular cell biology. Our most recent recruit, Dr. Timothy M. Moore accepted a position as an Assistant Professor of Internal Medicine in September. Dr. Moore received his M.D./Ph.D. from USACOM. He joins us from Johns Hopkins Hospital where he was a Research Fellow in Anesthesiology and Critical Care Medicine. Dr. Moore’s research will focus on mechanisms underlying acute lung injury.

Drs. Ivan McMurtry and Sarah Gebb from the Division of Pulmonary Sciences and Critical Care Medicine at the University of Colorado Health Sciences Center will join us this fall. Currently, Dr. McMurtry is Professor of Medicine and Director of the Cardiovascular-Pulmonary Research Laboratory. The primary focus of his research is the regulation of pulmonary vascular tone and structure, and the pathogenesis of pulmonary hypertension. Dr. Gebb is an Instructor of Medicine and has been investigating the consequences of abnormal fetal lung development focusing particularly on the growth and differentiation of the pulmonary vasculature and its interaction with the pulmonary epithelium.

Education

The CLB provides a vibrant collaborative research environment forming an outstanding framework for training in lung biology and related areas, and offers training opportunities for students and fellows at any academic stage. This past summer, the CLB accepted two students for the Summer Undergraduate Research Fellowship (SURF) program. Students participating in the program and sponsors respectively were Mr. Hamza Bamada from University of South Alabama (Dr. Stephen Kayes) and Ms. Amarachukwu Imediegwu from Mississippi University for Women (Dr. Richard Honkanen).

CLB faculty played an active role in the 33\textsuperscript{rd} Annual Medical Student Research Day sponsoring eight summer medical students. Dr. James Parker served as moderator for oral presentations. Freshman medical student, Mr. Leonardo Morantes, sponsored by Dr. Brian Fouty received the 2006 Clyde Huggins Medical Student Best Poster award. Other students participating in the program and sponsors respectively were Mr. Christopher Bailey (Dr. Mikhail Alexeyev), Ms. Christie Bean (Drs. Susan LeDoux and Glenn Wilson), Ms. Sarah Cantrell (Dr. Judy King), Mr. J. Richard Frost (Dr. James Parker), Ms. Crystal Harris and Mr. Ryan Palmer (Dr. Solomon Ofori-Aquah), and Ms. Erica Syklawer (Dr. Richard Honkanen).

Student training in CLB is interdisciplinary. As part of this concept CLB faculty, clinical fellows, post-docs, graduate students and technicians participate in weekly seminars. Tuesdays (11-12:00 pm), CLB holds a research-in-progress seminar. Papers are reviewed and utilized to transition into the presenter’s own area of investigation. Up to date research results and future directions are discussed. Fridays (1:30-2:30 pm), CLB co-sponsors a research seminar series with the Division of Pulmonary and Critical Care Medicine. Presentations rotate between Journal Club, Case Conference, Basic Science Reports, and Research Conference.
Research Conference is held in the Pharmacology Conference Room (MSB 3360) whereas other Conferences are held in the Eichold Room at the USA Medical Center.

**Art in Science**

PERCIPION™-The Art in Science Program sponsored by CLB was developed to integrate scientific research performed at USA with the non-scientific community, providing an opportunity for research scientists to present aesthetic aspects of their data to the public. Research scientists affiliated with the College of Medicine are continually submitting images obtained from hypothesis-driven research here at USA to PERCIPION. The Art in Science gallery now consists of more than 500 images. PERCIPION will host its third exhibition this fall with an opening reception at the Mobile Museum of Art. The exhibit will then travel to the USA Library to be displayed in the First Floor Art Gallery.
I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters


Hsiao CH, Li W, Lou TF, Baliga BS, Pace BS. Fetal hemoglobin induction by histone inhibitors involves generation of reactive oxygen species. Exp Hematol 2006 Mar; 34;(3).


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION


VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

General Operations: Dr. Johnson Haynes continues as Director of the USA Comprehensive Sickle Cell Center. Despite cuts in federal and state funding, the USA Comprehensive Sickle Cell Center has continued to maintain the same quality of clinical and educational services provided to the population of individuals affected with sickle cell disease and the educational activities provided to the healthcare community.
Dr. Haynes continues to serve as President of the Sickle Cell Oversight and Regulatory Commission for the State of Alabama. Dr. Haynes also serves on several national committees. He currently serves on the Data and Safety Monitoring Board for the Clinical Trials Consortium, National Institutes of Health and the Sickle Cell Disease Advisory Committee, National Institutes of Health. Dr. Felicia Wilson also serves on the Sickle Cell Oversight and Regulatory Commission for the State of Alabama.

**Research:** The 29th Annual Meeting of the National Sickle Cell Disease Program was held April 8-12, 2006 at the Peabody Hotel in Memphis, TN. The Center is currently involved in three pharmaceutically sponsored clinical trials. One trial is sponsored by Jcagen which is a 52 week multi-center trial looking at the clinical efficacy and safety of the Gardos channel inhibitor, ICA-17043-10 in patients with sickle cell disease. The second part is an open label trial, ICA-17043-12. The third is the Comprehensive Sickle Cell Center Clinical Trials Consortium (CSCC CTC) multi-center Arginine study.

**Clinical Operations:** The 2005-2006 academic year marks the close of the 8th year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. The primary objectives of this clinic are (1) to be a resource for practicing physicians in the University and private community; and (2) to serve as a positive educational experience for primary care residents in the Departments of Medicine and Family Medicine at the University of South Alabama. The clinic is staffed by Dr. Johnson Haynes Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; Ms. Stephanie Durggin, R.N.; and Ms. Adrienne Petite, Case Manager. Both Internal Medicine and Family Medicine residents continue to rotate on a monthly basis through the outpatient Adult Sickle Cell Clinic. The Adult Sickle Cell Clinic continues to serve the greater Mobile area in addition to a continuous influx of patients from surrounding areas. Ms. Pack-Mabien and Ms. Durggin continues to support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from pediatric to the adult services. Dr. Felicia Wilson is the physician caring for patients in the Pediatric Sickle Cell Outpatient Clinic. The Department of Pediatrics has recruited two additional hematologists/oncologists, Dr. Aarati Rao and Dr. Hamayun Imran as of July, 2006. The absence of an adult hematologist and urologist to support the adult operations remains lacking.

**Education:** The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community. The Center faculty and staff continues to support the Educator/Counselor Certification Program which took place 3 times this academic year at the Sickle Cell Disease Association of America, Mobile Chapter. On March 11, 2006, the Center hosted its’ sixth conference on “Practical Issues in Sickle Cell Disease VI: Working Together to Manage Sickle Cell Disease”.

154
Dr. Wally Smith, Chair of the Division of Quality Health Care at Virginia Commonwealth University in Richmond, VA was the Keynote Speaker. Dr. Smith spoke on “New Revelations Regarding Pain in Sickle Cell Disease”. Other speakers were Dr. Leonard Rich who spoke on “Sickle Retinopathy”, Dr. Felicia Wilson who spoke on “Management of the Febrile Pediatric Sickle Cell Patient”, and Dr. Johnson Haynes Jr. who spoke on “Pulmonary Hypertension in Sickle Cell Disease”. Funding for this clinical venue was provided through an unrestricted educational grant from McNeil Pharmaceutical Company.

The Department of Internal Medicine sponsored the Keynote Speaker for the conference. The nursing staff continues to provide a series of lectures to the nursing community within the University of South Alabama and private hospitals in the Mobile community and surrounding counties. Dr. Johnson Haynes made an oral presentation at the University of Tennessee College of Medicine in Chattanooga, TN on November 10, 2005 on “Strategy for Treatment of Nosocomial Pneumonias with a focus on the ATS/IDSA Guidelines”.

As we go forward, we plan to continue the clinical operations with the same vigor and integrity as we have in current years in spite of the absence of funding. We will continue to seek the grant support necessary to continue all clinical and research activities as well as continue requesting the necessary financial support currently being made available by the University of South Alabama College of Medicine.
At just three years old, the Center for Healthy Communities (CHC) continues to uphold its designation as a lead entity for outreach within the University of South Alabama. CHC is actively coordinating community education, research, public service and health activities to help eliminate health disparities, foster access to health care for underserved populations, enhance the capacity of individuals to better participate in decision making about their health and build healthy communities. Each component within the Center has grown substantially this year. In the wake of Hurricane Katrina last year, the Center also became a conduit for several organizations to support disaster victims. All the Center’s activities and services were implemented through its four component programs:

- Community Development & Nonprofit Management
- Civic Engagement & Participation
- Research
- EXPORT

**Community Development and Nonprofit Management Program:**
The Center launched the Community Development and Nonprofit Management (CDNM) Program with the aim of improving individuals’ ability to manage community, nonprofit, and municipal organizations and undertake evidence-driven community development initiatives. With financial support from the College of Arts and Sciences, the Center hired a coordinator in April to lead its activities in this program area.

As an initial public trust-building initiative, the program worked with the Bay Area Women’s Coalition and City of Mobile Special Events department on an inaugural community festival in the Trinity Gardens community. The community festival sought to provide community education about a number of issues relevant to the overall mission of the Center for Healthy Communities. The festival achieved its community outreach goals with attendance by well over 2,200 community members.

The program obtained its first grant from the Community Foundation of South Alabama to conduct a preliminary community economic development assessment for the Mobile County area. This assessment documents the needs, concerns, and priorities of citizens about community economic development and acts as a supplement to the Community Foundation’s proposal for community economic development funding from the Ford Foundation.

The assessment activities have led the CHC staff to work with elected and appointed officials in every municipality in Mobile County. It has also involved interviews and focus group activities with community groups and nonprofit organizations throughout the county. This work has placed the Center in a strategic position to conduct follow up work within these municipalities and community groups.
In addition, the program initiated its first round of Community Fellows during the summer 2006, which included local community leaders, graduates from University of South Alabama, and graduate students from the planning programs at Auburn, Alabama A&M, and MIT. The Community Fellows participated in a number of educational training, field practicums, and research throughout the summer. They were also instrumental to the design and implementation of the community assessment for Mobile County.

The Center’s CDNM Program is currently collaborating with urban and regional planning and community development programs to help form a regional consortium for maximizing resources for redevelopment of the Gulf Coast. CDNM is coordinating this initiative and has had discussions with several foundations regarding support for the consortium. In this regard, the Center is working with several renowned schools of planning (i.e. MIT and Rutgers University) to support the work of the consortium. The CHC CDNM Program is also working with the USA College of Arts & Sciences to design a proposed planning and community development curriculum for its students.

In accordance with its nonprofit management mandate, the program implemented board training for the District 2 Senior Citizens Center and continues to incubate a number of educational and developmental initiatives that will further the mission and work of the USA Center for Healthy Communities in the city and throughout the Gulf Coast Region.

Civic Engagement & Community Support:
The outreach effort of the Center for Healthy Communities has positioned it to be a conduit for helping to address a variety of community needs. The Center has been called upon to assist national, regional, and local organizations achieve their outreach objective. These include small grants, health based records systems, and educational enrichment activities.

CHC received a $5,000.00 grant from the STAR of Hope Ministries, Inc. to support Katrina relief and development efforts in the Gulf Coast. STAR of Hope Ministries is a nonprofit resource center for churches and the city of Patterson in New Jersey. The Center successfully distributed the $5,000.00 received to support five faith and community-based organizations involved in Hurricane Katrina disaster relief efforts. These organizations are located on the Gulf Coast of Alabama and Mississippi. Each is providing direct support to residents affected by the disaster. They are: the Lighthouse Apostolic Holiness Temple, Inc. (Grand Bay, AL), Bayou La Batre Church of Christ (Bayou La Batre, AL), Gautier High School (Gautier, AL), Our Daily Bread (Pascagoula, MS), and the Salvation Army (Pascagoula, MS).

CHC has also been working closely with Dr. Stephen Stokes, member of the USA Board of Directors, on the Regional Health Collaborative partnership. The purpose of the partnership is to support a cancer screening program and to incorporate a component of screening for chronic diseases. Dr. Stokes has secured resources for a mobile cancer screening unit; the Center is seeking the resources to support the chronic disease screening component.
Support was provided by the Center for the establishment of a Bayou La Batre outreach initiative at the University of South Alabama. The Center facilitated the collaboration between Japanese, Vietnamese, and other Asian student groups to raise money, raise awareness, and assisted USA students in planning and implementing their volunteer activities in Bayou La Batre. The students group designed and produced t-shirts for sale which has raised over $400.00 for this effort. These students contributed over 95 volunteer hours cleaning and repairing homes in Bayou La Batre. This is an ongoing initiative, which the center expects to expand during the coming year.

The Center has also worked closely with the City of Pascagoula on its re-development plan after Hurricane Katrina. Dr. Harvey L. White, the Director of the Center served as a consultant to the assistant city manager and is helping the City design an internship program that will attract planning and junior managers to the city. CHC staff also provided leadership for Mobile’s Mayor Sam Jones Transition Team. Dr. White was asked to co-manage the Mayoral Transition Team, Dr. Errol Crook, Termika Smith, Walinda Phiri-Alleman, and Hettie Vaughn also actively participated in transition activities.

Hurricane Katrina left many without access to their health care records, many did not know what medications they were taking and some did not even know why they needed to take medication. This in turn slowed down the process for addressing the health needs of many who were displaced by the storm, making them victims again. CHC has partnered with UPRIS Corporation and Morehouse College to prevent this from occurring during future disaster events. UPRIS is a health information technology company that develops consumer-centric, web-based health information portal sites. The Center was initially asked to find ten churches or other faith based organizations to offer an opportunity to use UPRIS’s new health information portals. These sites would offer individualized personal health record (PHR) accounts, while disseminating health information in a culturally competent manner. The portals are being used to introduce health ministries into churches or enhance their current health ministries. Each church will be given a basic web site with portal free for one year. Due to the success UPRIS has had in connecting with the ten churches, the Center has been asked to find an additional 90 churches from Bayou La Batre, Mobile, and other surrounding areas. The Center is in the process of identifying these additional faith based organizations.

The Center also supports the Discovery Program in conjunction with the Crichton Boys & Girls Club. Students are provided academic enrichment activities to enhance their interest in math and science and knowledge of health care professions. They were encouraged to also use arts and crafts to express their career aspirations. Each student participating was given a monetary award. Art work produced by the students is being displayed in the USA Medical Center.

Research:
Dr. Martha Arrieta who had served as the Center for Healthy Communities associate director from its conception, was promoted to Research Director and charged with developing this component of the Center. In a very brief period of time she has developed a very active research agenda for the Center and secured funding from several local and regional organizations. These include projects with the Mobile Housing Board, Providence Hospital, and the Morehouse College of Medicine.
The Mobile Housing Board has asked the Center to evaluate and make recommendations for the
development of an assisted living facility in the current Creighton Towers retirement apartment
homes. The Center has also aided in health screening processes for the Towers for diabetes,
hypertension, and cholesterol. This project is being implemented in conjunction with USA
Department of Family Medicine and is expected to last several years. CHC is also collaborating
with the Housing Board to evaluate management options for the facility.

Providence Hospital has asked the Center to aid in their Hispanic Health Survey and Assessment.
The Center is providing data entry, statistical analysis, and a final report concerning Hispanic
health needs in Mobile County. The report will be used by Providence Hospital to help it better
serve the growing Hispanic population in Mobile County.

In a collaborative partnership with Morehouse College three Hurricane Katrina projects through
the CHC Research Office has been initiated. These include projects for networking patient care,
telemedicine mental health outreach, and providing a secretariat for Gulf Coast NIH research
centers. Brief overviews of these projects are listed below:

A Network Approach to Facilitating Continuity of Care for Patients with Chronic Diseases in
the Aftermath of a Natural Disaster
Management of patients with chronic diseases is disrupted after a natural disaster due to factors
such as temporary residential changes as a result of evacuation; weather related closings of
primary care facilities, pharmacies or other institutions where patients obtain prescription
medications; and the interruption of communications between patients, health care providers, and
support organizations. Disadvantaged individuals on the Gulf Coast rely on the federally
supported primary care infrastructure for health needs in general, and the management of chronic
diseases in particular. We propose to build the capacity of such infrastructure by facilitating the
development of a network of these primary care providers that functions seamlessly across the
Mississippi – Alabama state boundaries. The proposal aims at facilitating the dialogue among
primary care health providers, hospitals, community based for-profit and not-for-profit
pharmacies, and community based organizations in order to: a) identify the critical chronic
disease management needs in the immediate aftermath of a natural disaster, both from the
provider and the patient perspectives, b) identify the elements of a community based network
that would be ready to cover such needs, and c) define the resources required to make such a
network functional. We will focus on the management of major chronic diseases and of
HIV/AIDS.

Mental Health Telemedicine Project
The Center for Healthy Communities is a partner for the Morehouse Regional Coordinating
Center for Disaster Response program to bring needed mental health services to the areas
affected by Hurricane Katrina via telemedicine. The project aims at creating portals for the
delivery of comprehensive, culturally competent mental health services critically needed by
disadvantaged populations in general and those affected by Katrina in particular, through the use
of video-conferencing equipment to offer real time health care at a distance. The USA Center
for Strategic Health Innovations and the College of Education Department of Professional
Studies are partners in this initiative also.

159
Morehouse Consortium
The Morehouse School of Medicine (MSM) and the USA Center for Healthy communities EXPORT Center aim to meet the needs of their constituencies by partnering on specific, targeted initiatives that will enable the surrounding communities to become more cost efficient, improve the overall quality of care and reduce health disparities. Goals for this agreement include: Efforts to help revitalize, rebuild and expand the healthcare infrastructure in Alabama that was devastated or to serve the communities that were affected by the recent hurricanes; collaboration concerning community screening and surveillance; collaboration on efforts to educate the community concerning health disparities; strategic planning to develop a state and regional emergency response infrastructure for natural disasters, collaboration to meet MSM’s Regional Coordinating Center goals relating to telemedicine, electronic health records, balanced health, health screening and surveillance and research; collaboration and coordination of web-based and face-to-face educational sessions for health care providers, medical support staff and community advocates.

The Center expects to continue the rapid development of its research component during the coming year. A major focus will be placed on supporting research. The current collaboration with USA Family Medicine is an example of the support the Center can provide for those involved in clinical research.

EXPORT:
The CHC EXPORT Center is entering into its 3rd year of funding from the $1.2 million grant provided by the NIH National Center for Minority and Health Disparities. These funds allow CHC to continue to support many innovative program activities that aid in addressing health disparities in Mobile. EXPORT provides its services through four main cores: the administrative, community outreach and information dissemination, research, and mentoring, training, and support. The primary focus for 2004-2005 was on the development of sustainable relationships within Mobile County. The focus for 2005-2006 was on the cultivation and enhancement of these relationships, through collaborative partnerships and services, while also building relationships regionally and nationally. The EXPORT Center remains dedicated to its goal of establishing a broad-based collaborative effort to address health disparities within the University of South Alabama (USA) service area.

Administrative Core

Staffing
The 2005-2006 year brought a transition for the Center due to the retirement of Dr. Robert A. Kriesberg, EXPORT PI 2003-2006, and the establishment of Dr. Errol Crook as the new PI. Dr. Crook, USA Chair of Internal Medicine, brought his unique experience as a physician along with his knowledge as a vital member of the Jackson Heart Study. After an extended absence due to illness, Elizabeth Locklin resigned as Outreach Coordinator and was temporarily replaced by Ms. Feaunte' Preyear, who continued with EXPORT until March 2006. Due to the extensive work and growth at the EXPORT Center field site on Stanton Road in such a short period of time, the hiring of a secretary, web master, and two student assistants for this facility became pertinent.
Ms. Traci Gordon joined EXPORT as secretary in October 2005, Mr. Clay Williams as webmaster, and Diana Falcon and Wanda Cade as student assistants.

**Partnerships**
EXPORT has developed collaborative partnerships with a variety of organizations to help address health disparities. This includes: the businesses in Mobile and Prichard; 100 Black Men of Greater Mobile, Inc.; the Alabama Chapter of the National Kidney Foundation; neighborhood community centers; the Health Literacy Coalition; the USA Hospital System; and the Mitchell Cancer Research Institute. EXPORT formed alliances with the American Cancer Association, the American Heart Association, and the American Diabetes Association (ADA) to help promote health awareness on targeted diseases at the community level. The EXPORT Center was asked by ADA to facilitate the establishment of a regional chapter to be based in Mobile. EXPORT has also joined with the faith community to develop a faith-based health Network. This Network encourages and assists in the establishment and strengthening of health ministries in places of faith-based organizations.

EXPORT has made it a priority to work closely with those who make policy decisions. Linking with elected officials representing targeted service areas and being assigned to lead roles in the Mayoral transition allowed EXPORT an excellent opportunity to present the prominent health issues in the City to those who can make a difference. EXPORT has also been active with civic organizations such as Mobile United, Health Literacy Coalition, and Bridges to Better Health. The Graduate Chapter of Alpha Kappa Alpha Sorority, Incorporated named the CHC EXPORT as their health partner for 2006.

**Community Outreach and Information Dissemination Core**

**Health Promotion**
The staff has collaborated with the College of Nursing and the USA College of Allied Health Physician Assistant program to provide health screenings at numerous health fairs in Mobile and surrounding areas. Based on the Healthy Hair Healthy Body Program, which emphasizes how your outer appearance is based on your inner health, EXPORT developed the Barbershop Initiative. Barbershop and salon owners in the targeted service areas were contacted and asked to participate. The initiative begins by surveying the clientele to find out what health issues are most important to them. EXPORT’s health education specialist then tailors a monthly educational seminar on that particular issue at the business. Since June 2006, two seminars have been held with more underway.

An annual calendar has been developed to offer an easier way to focus attention on the Healthy People 2010 initiative. This calendar, known as the Disease of the Month calendar, provides one to two diseases that are spotlighted each month. An activity or speaker is planned around that particular disease for the month. Faith based organizations are encouraged to use this calendar and other Center resources as a part of their health ministries.
Community Health Assessment
The Institute of Medicine, in “The Future of Public Health” report, identified assessment as one of the core functions of public health and recommended that there should be a systematic and periodic collection, aggregation, and analysis of information on the health of communities.

Every community in Mobile County has unique health concerns and area specific health resources; therefore, community health assessments were administered in medically underserved communities in Mobile. Data analysis from these assessments is equipping the EXPORT staff and targeted communities with the knowledge to recognize the health related concerns in each community and formulate strategies for addressing them. The objective is to build the capacity of individuals, and ultimately empower them to play an active role in identifying their health concerns and determining their own health care priorities. More than 400 individual assessments have been completed for ten organizations. These include assessments for Alpha Kappa Alpha Sorority Inc., Bay Area Women’s Coalition, and Bishop State Community College.

University Inventory
In an effort to provide a “one stop shop” site for people to find out what others are researching at USA, the Center has developed a University Inventory. Each professor was provided with a survey asking them to indicate their research interest and to list current research activities. The information provided is being put into a program, and will be made available to the University and Mobile community. Interested individuals can search different topics to identify others with similar research interest. This search engine will be made available through CHC website for use.

Lay Health Advisors Program
In conjunction with the USA College of Continuing Education and Special Programs the Lay Health Advisors (LHA) Certificate Program was developed. Classes began in January 2006 and are on the quarter system. Each quarter the LHA Roles and Responsibilities class is offered. LHA Resources & Information, LHA Cultural Health, and LHA Technology & Health are currently being offered. Each class provides participants in the program training, based exclusively in a community setting, to allow them to better serve as connectors between healthcare consumers and providers. There are currently 8 participants enrolled who have taken 4 classes.

Photovoice
Photovoice enables communities, through photography, to record their health concerns; promote critical dialogue and knowledge about personal and community health issues through group discussions of photographs; and help communities better communicate with policymakers. The EXPORT Center facilitated PhotoVoice activity through a series of workshops in which the concept will be discussed with community groups in targeted areas.
Two organizations participated in Photovoice this year; Bay Area Women’s Coalition and the Dumas Wesley Community Center. The Bay Area Women’s Coalition is a community action group based in the Trinity Gardens area of Mobile. The Dumas Wesley Community Center is a community center located in the Crichton area of Mobile; it provides many community-based activities, including day care and senior citizen services. Approximately fifteen people from each organization participated and produced feedback about their photos. The photographs will be presented at an upcoming council meeting.

**STARS & STRIPES**
The Students Training for Academic Reinforcement in the Sciences (STARS) Program was developed as the core component of the EXPORT Academic Pipeline for Minority Scientists. STARS was successfully implemented last year and because of its success the Special Training to Raise Interest and Prepare for Entry into the Sciences (STRIPES) Program was developed. With the addition of STRIPES a true pipeline for increasing minority entrance into the science and health–based careers has been established. Thirteen rising seniors participated, in this summer’s six week intensive STARS session. Ten of these students were from Mattie T. Blount High School and three from John L. Leflore High School. These students took courses in English/Literature, Anatomy & Physiology, Physics, and Algebra II with trigonometry. Each week the students had at least two speakers or special activities. STARS students were exposed to new and upcoming health care careers, particularly those that are often not highlighted. Student visits included trips to the Sleep Lab, touring the Children & Women’s Hospital, and the College of Medicine gross anatomy lab.

Similar to the STARS Program, STRIPES had a strong science and math based curriculum. STRIPES consisted of rising ninth and tenth graders. Students participating were recruited from schools that feed into Blount, Leflore, and Vigor High Schools. A total of twelve students participated for the three week summer session. The curriculum included Algebra I and College Preparatory Biology; each class also had a lab session. During the Biology lab, students were allowed to work in actual USA student biology labs, giving them hands on college experience. Students worked with flat worms and dissected frogs in Biology, they also practiced math drills and team tested each other in Algebra I.

The College of Arts & Sciences partnered with the Center by providing classroom space for both programs the entire summer. They also provided access to biology laboratories. Over the academic year STARS students will continue their participation in monthly academies. They will be attending five Saturday Academies which are held on the second Saturday of each month (except December), starting in October and ending in March. They will be studying Speech/Communications, African American History in science and health, and Medical Terminology. The Center is considering revising STARS and STRIPES to allow more students to be reached.

163
Faith-Based Initiative & Health Forum

EXPORT established a leadership council consisting of representatives of over 20 churches in the Mobile area. The group was initially convened by invitation to a meeting in October 2005. Their sustained efforts over the next several months resulted in a wonderful forum entitled “Healthy Souls in Healthy Bodies: Empowering the Community” held on April 1, 2006. The EXPORT Center was honored to have David Satcher, MD, PhD, former US Surgeon General, as the keynote speaker. The event was held at a local church whose pastor is a co-chair of the faith-based leadership council. Approximately 300 individuals participated in the forum. The objective was to get churches to make the health of their parishioners a priority and holding the event in a local church helped to convince the audience that our objective was appropriate.

The EXPORT Center has made significant progress in encouraging churches in the area to develop Health Ministries. This forum was a wonderful start to that initiative. EXPORT is currently following up with the churches in the area (over 120) to encourage and assist them in the development or strengthening of a Health Ministry.

Research Core

Health Disparities Research Group & Research Health Disparities Symposium

The Health Disparities Research Group (HDRG) has been a bright light this year. Dr. Martha Arrieta has successfully motivated many University of South Alabama (USA) faculty to become actively interested and involved in health disparities research and the activities of the EXPORT center. We are especially excited about the number and diversity of faculty that regularly attend and actively participate in our meetings. These individuals are highly motivated, have established collaborative partnerships in novel research projects, and have supported several of EXPORT’s activities. Clearly, USA faculty are now excited about health disparities research and are committed to the community based participatory research model. Members of greater than 10 schools and/or departments from across the university are involved in HDRG.

An example of the great return on the effort devoted to developing these relationships was the Regional Health Disparities Symposium. This symposium was held on July 26, 2006. Thirty individuals from at least 12 institutions worked on the planning, coordinating, and implementation of the symposium. Ten departments and/or schools at the University of South Alabama were also represented in this group. The Regional Health Disparities Symposium was an event where research scientists, health professionals, and community health advocates met for the purpose of sharing experiences, accomplishments, challenges, best practice and to facilitate networking and collaborations for subsequent research in the area of health disparities. The dialogue at the Symposium focused on: Infant Mortality, Chronic Diseases, Health Literacy, Cancer, and the Impact of Disasters on Health Disparities. This year's Symposium marked the first of its kind that brought together a broad spectrum of attendees to participate in interactive plenary and breakout groups. Speakers included world renowned researchers to local community activists; approximately 200 people registered and attended the conference.
In order to foster health disparities research by HDRG faculty, the EXPORT Research Core granted awards for HDRG faculty to attend national forums on health disparities research and facilitated the development of linkages between USA faculty and health disparities investigators around the country. A total of four faculty members have attended conferences to date. EXPORT Research also granted internal pilot grants through a competitive process. Three projects had been identified; however, only two were awarded as the third identified recipient was scheduled to leave the University shortly after the awards were announced. A total of $26,621 was awarded to support the following projects:

<table>
<thead>
<tr>
<th>Faculty Member</th>
<th>College</th>
<th>Pilot Research Project</th>
<th>Award</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Judy Blair</td>
<td>Medicine</td>
<td>“Evaluation of a pediatric weight management program to develop innovative approaches to the treatment of childhood obesity”</td>
<td>$13,800</td>
</tr>
<tr>
<td>Dr. Hung T. Khong</td>
<td>Medicine</td>
<td>“Literacy, culture, and PAP testing adherence among Vietnamese American Women”</td>
<td>$12,821</td>
</tr>
</tbody>
</table>

CHC EXPORT is also supporting the Pilot Project: Process and Tools to Identify Barriers to Healthcare Access. The objective of this Pilot Project is to investigate the effectiveness of the local primary health care infrastructure in responding to the needs of the population residing in the inner core of the City of Mobile and adjacent City of Prichard, and to document barriers such populations face when seeking health care. The project was originally devised as a survey of 375 patients, but when pilot testing the study questionnaire, it became evident that a structured instrument captured specific details of patients’ interactions with the medical care system, but did not provide information on individual knowledge and perceptions (both of disease and of the primary health care infrastructure), that could act as barriers to accessing healthcare. Therefore, a decision was made to expand the study to include a focus group component that will provide qualitative data on the population’s knowledge, understanding and perceptions of the health problems in the community, the primary care infrastructure available to them, and barriers experienced when seeking health care.

The data generated by this project will be useful to further the understanding of the Tertiary Care Teaching Hospital as a member of the Safety Net Infrastructure of care for the uninsured. Data will be analyzed to provide information on interventions that can be initiated at the hospital to incorporate patients into the primary health care infrastructure. While the data has local significance and will be made available to healthcare institutions in the Cities of Mobile and Prichard, as well as to community partners who can provide input on interventions to address issues of health care access identified with the survey, it also has relevance at the national level due to its generalizability to similar low income minority populations served by comparable Safety Net systems. The results of this study will be submitted for publication in October 2006.
Mentoring, Training and Support Core

Career Pathways for Minority Scientists
The objective of this program is to advance the careers of minorities in basic science and clinical research through effective mentoring strategies. Brochures were developed and distributed widely in the Southeast region of the country. Colleges and Universities with biomedical schools were the focus. The summer research institute was designed for minority junior scientists with an interest in cancer, cardiopulmonary disease, diabetes, lung biology, metabolic syndrome and sickle cell disease. The program took place July 16th – 18th, 2006. Six researchers participated in the program, from four different universities. Preliminary feedback suggests that the program was very effective. The program will be further developed using additional feedback from the fellows.

Talladega Collaborative & Undergraduate Research Program
Two students were recruited from Talladega College to participate in a summer research seminar program. The program is a traineeship for students interested in graduate education and a career in biomedical research. The traineeship involved 10 weeks of full-time research focusing on lung biology in health and disease in one of the Center’s laboratories. The students arrived May 29th, after a day full of lab and program orientation the students received their lab assignments and began research. During the program the students experienced state of the art research methods, read pertinent literature, participated in laboratory meetings and discussions, interacted with faculty and other trainees in the Center for Lung Biology, and will potentially become a coauthor on a publication resulting from their work. The relationships fostered over the summer with Talladega students will be maintained after the summer program to encourage and assist them in their career objectives.

Future Plans
The Center plans to continue refining and enhancing the current programs and projects initiated this year. Planning for an even larger health disparities symposium has already begun. Our partnership with UPRIS Corp and the enhancement of the community development and nonprofit management program will provide even more growth opportunities for the Center.
2005-2006
Summary of Scholarly Activities
Center for Strategic Health Innovation

I. PUBLISHED JOURNAL ARTICLES AND BOOK CHAPTERS

A. Full-length published articles and book chapters

B. Articles in press


II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS


Taylor CW. Community surge capacity and resiliency. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.

Taylor CW. Disaster response and communication. Paper presented at: Health and Human Services ONCHIT Katrina Health Meeting; 2005 Nov 18; Washington, DC.

Taylor CW. Healthcare responding to Katrina. Paper presented at: Distributed Medical Intelligence-Disaster Response and Preparedness From Hurricanes to Infectious Disease Conference; 2006 Apr 19; New Orleans, LA.


Taylor CW. Impact driven disaster preparedness. Paper presented at: Palm Beach County Medical Society; 2006 Jun 1; West Palm Beach, FL.

Teatro CW


Performance driven healthcare Paper presented via video.

Teatro CW

Special Committee of Homeland Security: 2006 April 8: Baton Rouge, LA.


Teatro CW


Teatro CW

Sessions: 2006 Apr-June: Mobile, AL.

Paper presented at: Advanced Regional Response Training Center Local I.

Teatro CW

Legal issues during disasters and natural and ecological events. Paper presented at: Senate HELP Committee.

Teatro CW


Teatro CW

Hospital grand rounds: 2005 Oct 14: Corpus Christi, TX.


Teatro CW


Impact driven disaster response. Paper presented at: Department of

Conference: 2006 May 17: Billings, MT.

Impact driven disaster response. Paper presented at: Montana Safety

Teatro CW

Safe and Health Managers Meeting: 2006 Feb 1: Cocoa Beach, FL.

Impact driven disaster response. Paper presented at: NASA

Teatro CW

Biennial MT.

Conference and Telehealth Leadership Forum: 2006 Jun 7: Denver, CO.

Impact driven disaster response. Paper presented at: Northwest

Teatro CW
Taylor CW. Role of Alabama incident management system (AIMS) in hurricane Katrina. Paper presented at: Alabama Disaster Preparedness Meeting for Hospitals; 2005 Oct 26; Montgomery, AL.

Taylor CW. Searching for the soul of medical information technology. Paper presented at: North Central Montana Healthcare Alliance Regional Governance Meeting; 2006 Jan 6; Great Falls, MT.

Taylor CW. Setting the stage-beyond care, the financial challenges of disaster response and survival. Paper presented at: Advanced Regional Response Training Center Financial and Enterprise Resiliency Community Response Module; 2006 Jun 26; Mobile, AL.

Taylor CW. Surge capacity management-parts I and II. Paper presented at: Advanced Regional Response Training Center Level 1 sessions; 2006 Mar-Jul; Mobile, AL.

Taylor CW, Wallace DL. Alabama incident management system (AIMS). Paper presented at: Medical Reserve Corps; 2006 Sep 14; Mobile, AL.

Taylor CW, Wallace DL. Alabama incident management system training. Paper presented at: Alabama Primary Health Care Association 21st Annual Conference and Clinical Forum; 2006 Sep 14-17; Panama City Beach, FL.

Taylor CW, Wallace DL. Communication tools and technology. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Taylor CW, Wallace DL. Hazard threat/vulnerability assessments. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Taylor CW, Wallace DL. Public health/hospital/community health center coordination. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.


Taylor CW, Wallace DL, Roach RD. Alabama incident management system demonstration and exercise. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.


Wallace DL. Advanced bioterrorism awareness-parts I and II. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.


Wallace DL. Alabama incident management system (AIMS) demonstration. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.


Wallace DL. Bioterrorism and infectious disease exercise. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Wallace DL. Chemical hazard awareness. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Wallace DL. Community health center emergency incident command system. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.
Wallace DL. Decontamination and personal protective equipment. Paper presented at: Montgomery Emergency Management Agency; 2006 Jan 18; Montgomery, AL.

Wallace DL. Decontamination awareness and personal protective equipment. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Wallace DL. Emergency medical operations center management/medical transfer center management/medical needs shelter management. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Wallace DL. Emergency medical operations center, medical transfer center, and medical needs shelter management. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.

Wallace DL. Federal/state/local coordination issues. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Wallace DL. Federal/state/local coordination review. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Wallace DL. Hospital emergency incident command system and public health emergency incident command system-parts I and II. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Wallace DL. Incident command system level 2-defining responsibilities. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Wallace DL. Pandemic avian flu plan development. Paper presented at: Mobile County Health Department Pandemic Summit; 2006 Jul 21; Mobile, AL.

Wallace DL. Pandemic avian flu planning issues-six critical factors to survivability. Paper presented at: Mobile County Health Department Pandemic Summit; 2006 Jul 21; Mobile, AL.

Wallace DL. Pandemic planning. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.
Wallace DL. Pandemic preparedness planning. Paper presented at: Advanced Regional Response Training Center Level II sessions; 2006 Apr-Jul; Mobile, AL.

Wallace DL. Planning between public hospitals and community health centers. Paper presented at: Advanced Regional Response Training Center Community Health Center Community Response Module; 2006 Apr 6; Mobile, AL.

Wallace DL. Public health challenges and capabilities. Paper presented at: Mobile County Health Department Pandemic Summit; 2006 Jul 21; Mobile, AL.

Wallace DL. Regional planning. Paper presented at: Advanced Regional Response Training Center Level I sessions; 2006 Mar-Jul; Mobile, AL.

Wallace DL. Surge capacity/capability issues and financial impacts-managing in a pandemic. Paper presented at: Mobile County Health Department Pandemic Summit; 2006 Jul 21; Mobile, AL.


Wallace DL, Roach RD. AIMS-VI implementation. Paper presented at: Virgin Islands Department of Health; 2006 Jul 13-14; St. Thomas, VI.

Wallace DL, Roach RD. Alabama incident management system (AIMS) demonstration. Paper presented at: Distributed Medical Intelligence-Disaster Response and Preparedness From Hurricanes to Infectious Disease Conference; 2006 Apr 19; New Orleans, LA.
V. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Center for Strategic Health Innovation (CSHI) continues to serve as a leader in advanced preparedness teaching and training, as well as innovative healthcare technology platform development and deployment. In fact, over the past twelve months, CSHI expanded its outreach from a local and statewide basis, to having both national and international application and recognition. In Project Year 2005-2006, CSHI activity was focused on two major fronts: 1) creating, testing, defining and articulating the role of communication oriented technologies across multi-disciplinary healthcare platforms, and 2) teaching, training, and planning all-hazards disaster response. Through our efforts 79 patients were monitored, 120 telemedicine consults were seen, 726 statewide healthcare facilities were linked by the Alabama Incident Management System (AIMS), 1026 attendees received disaster preparedness training, 1285 educational hours were broadcast using videoconferencing, and 99,995 patient records were added to our Virtual Medical Record (VMR). All CSHI projects developed to date were founded upon the belief that information appropriately captured, timely delivered and appropriately analyzed will lead to a new era of knowledge based decision-making, whether at the granular level, one patient at a time, or across populations in time. The projects outlined below address the broad range of activities housed in CSHI:

Training Programs: CSHI both continued and expanded upon our all-hazards, disaster preparedness training mission, reaching approximately 1026 participants across the State of Alabama. We again received funding from the Alabama Department of Public Health, Center for Emergency Preparedness (ADPH CEP) for the Advanced Regional Response Training Center (ARRTC). This year, ARRTC training was presented in three levels: ARRTC I, ARRTC II, and ARRTC Community Focus Modules. Approximately 641 participants traveled to Mobile for onsite training to include representatives from public health, hospitals, nursing homes, community health centers (CHCs), and emergency management and response agencies. The goal of the training was not only to provide participants with the skills needed to effectively respond to disasters, but to also encourage them to build the relationships needed to effect the response. CSHI also contracted with ADPH CEP for the delivery of three statewide Volunteer Symposia. Scheduled in Huntsville, Pelham, and Mobile, these symposia were designed to provide pharmacy, nursing, allied health, and volunteer personnel with a basic exposure to the role of volunteers in responding to any disaster, be it man-made or natural. As of September 30, two of the three sessions have been completed in Huntsville and Pelham, with approximately 350 volunteers trained. And, finally, CSHI contracted with the Mobile County Health Department to design and deliver a full day Pandemic Flu Summit.
Approximately 35 participants representing public health and local business community leaders gathered to discuss potential challenges for Mobile in the event of a pandemic outbreak.

**Technology Development and Deployment:** CSHI strives to use emerging health technologies to improve the quality, cost, care, and access to healthcare within our state and beyond. One exemplary tool developed in-house and implemented on a statewide basis, is the Realtime Medical Electronic Data Exchange (RMEDE), our patient-specific disaster/non-disaster virtual medical record (VMR). RMEDE is an exciting and unique software tool, used to aggregate patient-specific information from multiple sources and to assemble this data into a provider friendly format. RMEDE builds upon the success of the “BioTrac” program by integrating home health monitoring data with claims data to create a true 360 degree view of the patient’s health. A VMR is created providing detailed information about the patient from multiple data sources that are otherwise not available to the provider. Using our proprietary Comprehensive Health Score (CHS) RMEDE combines for the first time a measurement tool of quality and compliance, not just quality. USA CSHI has successfully engaged two key critical partners including the State of Alabama Medicaid Patient 1st program and the Alabama Department of Public Health. To date, RMEDE has grown from a VMR of 19 patients with no data, to a robust, unique e-health statewide initiative with records of multi-year data for 99,995 patients. And, over time we will see that the CHS is a far better predictor of patient health than quality alone.

A second tool developed in-house using funds from ADPH through a HRSA grant is the Alabama Incident Management System (AIMS). Initially created in 2004, AIMS is management information software designed to capture Hospital Emergency Incident Command System (HEICS) reported surge data, or information regarding the real-time status of a hospital’s ability to triage, treat, and transfer victims of a disaster in a timely manner. Critical data such as available beds, supplies, staffing, and equipment is entered into a database at each participating healthcare facility and then transmitted and displayed at the local or regional Emergency Operations Centers (EOC) for use making emergent decisions. The original AIMS was designed for use by hospitals and public health. Recent expansion added the capacity to link statewide Medical Needs Shelters and, this year, under contract from ADPH, AIMS was expanded to include nursing homes and emergency medical services. AIMS currently boasts a user base including 130 hospitals, 256 nursing homes, 18 community health centers, 307 emergency medical services units, and approximately 15 medical needs shelters across the State of Alabama. And, our outreach is not bounded by state borders. In 2005-2006 AIMS was presented throughout the State of Alabama, to Florida, Mississippi, Montana, North Dakota, Utah, California and Washington, D.C. Of particular note and significance is that AIMS has been successfully installed and implemented in the U.S. Virgin Islands.
Thirdly, clinical activity using telemedicine connectivity continues to be provided to rural Alabama. Approximately 50 HIV consults were conducted between the USA Medical Center and the Baldwin County Health Department, located in Robertsdale. These HIV clinics are held on a biweekly basis. Additionally, approximately 10 consults were conducted for the Children’s Sexual Abuse project, and peer review activity continued throughout the southwest portion of the state. This project has grown to include over eight active sites, working collaboratively to deliver telemedicine consults. Peer review sessions are conducted biweekly ensuring the appropriate treatment of patients in these small, remote communities. Our psychiatric efforts for pediatric patients also continues with over 60 children being evaluated using the telemedicine network. Our partner in this endeavor is Dr. Marsha Raulerson, a pediatrician from Brewton.

Fourthly, videoconferencing activities have continued and include almost daily healthcare education provided to participating locations. During 2005-2006, CSHI sponsored and broadcast approximately 1285 educational hours to all participating sites. CSHI also employed the videoconferencing network to outreach to other University departments for collaborative efforts, such as Allied Health lectures broadcast to the Oklahoma School for the Deaf and Blind, the Biology Consortium monthly meetings, and the State and Regional Perinatal Advisory meeting. These efforts confirm our belief that educational programs offered through videoconferencing results in bringing insight, experience, and expertise into participating remote communities that otherwise would not be available.

A fifth and final technology application used by CSHI is BioTrac, a home monitoring project. BioTrac has sustained steady growth over the past year. Patients suffering from chronic illnesses such as diabetes, congestive heart failure, and hypertension are enrolled in the program and monitored for significant changes. An alert is generated for any data received that is out-of-range and the primary physician responsible for the patient’s care is notified for any needed follow-up. CSHI currently partners with the Alabama Department of Public Health and the Mobile County Health Department for patient enrollment. CSHI also partners with the USA Center for Healthy Communities to enroll and manage patients. This year the BioTrac home monitoring program successfully transmitted over 16,000 data points, and monitored approximately 79 patients. Further expansion of the project is anticipated in 2006-2007.
2005-2006

Summary of Activities
Office of Technology Development

The Office of Technology Development (OTD) handles all phases of the intellectual property process for the College of Medicine, including evaluation of invention disclosures, assessment of marketability and patentability of inventions, negotiation of licensing and research agreements, oversight of material transfer agreements, and management of the existing patent portfolio. At the end of this fiscal year, all operations of OTD were transferred to the Division of Research Administration.

In FY2006, OTD, through SAMSF, generated $1,218,684 in licensing income from sales of natural folates, licensed to Merck KGaA, a Phase I clinical trial milestone payment for IPA for Alzheimer’s treatment, licensed to Intellect Neurosciences (formerly know as Mindset), and various research materials sold by three companies. OTD also negotiated $187,500 in sponsored research funding through 4 new research agreements for COM faculty. In total, OTD brought in $1,406,184 in income for the College of Medicine for the fiscal year. SAMSF was reimbursed directly for 16% of external legal and licensing fees. One U.S. patent issued to SAMSF in this fiscal year.

Further details about the operation of the Office of Technology Development through July 31 of FY2006, and a comparison with the statistics of the previous four fiscal years, are shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
<th>CUMUL TOTAL*</th>
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<td>Licensing Revenue (Cross)</td>
<td>$64,953</td>
<td>$108,114</td>
<td>$307,038</td>
<td>$561,289</td>
<td>$1,218,684</td>
<td>$2,683,568</td>
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<td>$82,500</td>
<td>$211,973</td>
<td>$80,850</td>
<td>$187,500</td>
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<td>Licenses/Options Signed</td>
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<td>1</td>
<td>1</td>
<td>2</td>
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<td>17</td>
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<td>Research Agreements Signed</td>
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<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>23</td>
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<tr>
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<td>11</td>
<td>8</td>
<td>9</td>
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<tr>
<td>Invention Disclosures</td>
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<td>US Patents Filed (all types)</td>
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<td>4</td>
<td>3</td>
<td>8</td>
<td>4</td>
<td>42</td>
</tr>
<tr>
<td>US Patents Issued</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>23</td>
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<tr>
<td>Start-up Companies Formed</td>
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<td>0</td>
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<td>0</td>
<td>0</td>
<td>3</td>
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<tr>
<td>Legal Fees Expended</td>
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<td>$127,570</td>
<td>$90,305</td>
<td>$82,061</td>
<td>$101,294</td>
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<tr>
<td>Legal Fees Reimbursed</td>
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<td>$106,990</td>
<td>$53,717</td>
<td>$96,468</td>
<td>$163,364</td>
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<td>Legal Reimbursement %</td>
<td>86%</td>
<td>84%</td>
<td>59%</td>
<td>118%***</td>
<td>16%</td>
<td>59%</td>
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<tr>
<td>Material Transfers Agreement</td>
<td>23</td>
<td>10</td>
<td>38</td>
<td>41</td>
<td>30</td>
<td>168</td>
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</tbody>
</table>

* includes all data from 1999 to present
The College of Medicine Medical Alumni Office is an integrated division of the Department of Medical Development and Alumni Relations. The mission of the University Development Program is to maximize, from all sources, the private gift support necessary to help the University of South Alabama fulfill its mission, pursue its vision and to provide the “margin of excellence” necessary to enable the University to achieve its full potential.

Within the Division of Development and Alumni Relations, the Office of Medical Development and Alumni Relations was established to lead development efforts for medical entities within the University and to promote a comprehensive alumni relations program. Mr. Travis Grantham was named the Director of Medical Development and Alumni Relations in May 2006.

During this past year, Mr. Grantham has met with College of Medicine administrators to determine program needs and goals and how they can best be met. Additionally, there is a concerted effort underway to involve medical student alumni and medical resident alumni in the life of the College of Medicine as ambassadors, advocates, advisors, benefactors and educational partners.

The University of South Alabama has recently undertaken its first ever comprehensive campaign with an overall goal of $75 million of which the College of Medicine’s campaign goal is $3 million. In Fiscal Year 2006 (received through September 22), almost $1.7 million was raised for the College of Medicine.

The Alumni Office sponsors and organizes alumni and student activities (see attached list) and works closely with the Executive Board of the Medical Alumni Association. The 2005-06 President of the USA Medical Alumni Association was Dr. Diana K. Hashimi. The following physicians served on the executive committee: Oscar D. Almeida, R. Lamar Duffy (president-elect), William E. Blaylock, Gregory W. Cotter, Carol C. Dittman, Russell A. Hudgens, Amy M. Morris, Thomas B. Montgomery, David C. Ross, Lee W. Thompson, John L. Todd, Kathleen J. Webster, and Stacey W. Wing. The organization currently has a composite membership of 1,860 medical graduate physicians; 150 Ph.D. graduates and includes current and past hospital staff (see attached report for breakdown of this number).

The 2006 Annual Medical Alumni Weekend held June 23-24 at the Perdido Beach Resort in Orange Beach, Alabama. Six reunion medical classes (1976, 1981, 1986, 1991, 1996, and 2001) returned to the Gulf Coast to celebrate graduation dates. The weekend included four hours of Continuing Medical Education with presentations by two College of Medicine faculty members: Dr. Errol Crook, Department of Internal Medicine and Dr. Charles Rich, Department of Psychiatry. Two alumni physicians from the Class of 1981 presented programs: Dr. Edward Panacek, Professor of Emergency Medicine at UC Davis and Dr. Tom Montgomery, Professor of Internal Medicine at USAMC.
Dr. Joe Hardin, Professor Emeritus of Internal Medicine, received the 2006 Distinguished Service Award, recognizing his notable contributions in clinical medicine. The weekend included a brief President's Report by Dr. Lamar Duffy and an update of new developments within the College of Medicine by the interim dean, Dr. Samuel J. Strada. The meeting concluded with the presentation of $50,000 to the College of Medicine for the Medical Alumni Endowment Scholarship Fund and a $1,000 donation to the Charles M. Baugh Biomedical Library.

The main student focus for the Medical Alumni Association continues to be the development of scholarship awards. In 2006, the Association awarded fifteen freshman scholarships and three memorial scholarships (Christian L. Grinaker Award, Clyde G. Huggins Family Practice Scholarship and the Les Sockwell Memorial Award). In addition, two academic awards were recognized: the Medical Alumni Leadership Award and the Michael Moore Gross Anatomy Award for Excellence.
The Medical Alumni Office maintains a website on the College of Medicine homepage, organizes four yearly Executive Board Meetings, state chapter meetings, coordinates programs for both alumni and student alumni, and distributes numerous financial contributions to various student organizations for the Medical Alumni Association.

**USA Medical Alumni**
*(Current and Past Housestaff)*
*1976-2006*

**Current Housestaff:** 212  
(70 USACOM alumni – 142 other schools)

**Resident alumni:** 1,762  
(498 are USACOM graduates)  
(1,264 are non-USACOM graduates)

**Total number of records:** 1,974

**Goals for 2006-07:**

1. To create an email communications database that includes at least 50% of the membership
2. To increase involvement/awareness of the Medical Alumni Office (students and residents)
3. To increase participation in regional chapters
4. To increase participation in Annual Giving and Membership Drive Programs
5. To expand membership programs to include Ph.D. and resident alumni when possible and coordinate effort with other offices to recognize alumni and their achievements
6. Increase publication collaboration and production
7. To work with Student Affairs by promoting alumni participation (ie: shadowing opportunities, guest lectures)
8. Updating website on quarterly basis
9. Increasing opportunities for scholarship development
2006-2007
OFFICE OF STUDENT AFFAIRS

The Office of Student Affairs is responsible for all educational programs in the College of Medicine from admission through graduation from medical school. These activities encompass the areas of Admissions, Student and Academic Affairs, and Continuing Medical Education. An Assistant Dean of Curriculum oversees curriculum and an Assistant Dean of Graduate Medical Education oversees the residency programs.

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

Student Affairs

Orientation programs, entirely organized by sophomore student efforts, were held for entering Freshmen on August 9-11, 2006. Class size for the entering Freshman increased from 70 to 74 students as approved by the LCME. The Freshman students attended two and a half days of structured activities which included introductory talks or presentations from the COM administration, Biomedical Library, Counseling Services, and various student organizations, a course in CPR and a book and instrument sale. Events included dinners at faculty or sophomore student homes on Friday night and a variety of optional activities on Friday. There was also a party at USA Brookley Magnolia Room on Thursday night. These events were all very well attended and enjoyed by everyone.

Junior Orientation was held in the Mastin Building on the USAMC Campus on May 8, 2006. Dr. Rettig organized the activities which included advice from faculty and students on how to succeed in the Junior year. Additional presentations were made by staff from Medical Records, Risk Management, Infection Control, Quality Assurance, the Biomedical Library, and Hospital Safety and Security. In addition, the students were recertified in Basic Life Support.

The fifth annual White Coat Ceremony, sponsored again this year by the Medical Alumni Association, was held on Saturday, May 6, 2006, in the University Ballroom. Rising third-year students and their families were welcomed by Dr. Margaret O’Brien for the Office of Student Affairs, Dr. Diana Hashimi for the Medical Alumni Association, and Dr. Samuel Strada, Interim Dean for the College of Medicine. Dr. Errol Crook of the department of Internal Medicine gave a short talk on what it means to be a physician. Dr. Allan Tucker, Chair of the department of Pathology then presented the students with a white coat and a lapel pin (courtesy of the USACOM Alumni Association and the Arnold P. Gold Foundation for Humanism in Medicine, respectively). Dr. Margaret O’Brien administered the USA "Medical Student Oath." The president of the class, Jake Lee, also addressed the assembly. The inaugural members of the USA chapter of the Gold Humanism in Medicine Honor Society were recognized as were three professors (Drs. Roger Lane, Elliot Carter, and Jeff Sosnowski) for their teaching. The formal program was followed by a reception in the Medical Science Building Foyer followed by a tour of the MSB facility. The events were well attended and received good reviews from all who came.

Medical student participation in the national AMA meeting in Chicago, the AAMC meeting in Philadelphia, and the SNMA meeting in Memphis were supported by providing funds to support travel.
Student Affairs revised the following publications which were posted to the Office web site: Residency Selection Handbook, Student Handbook 2006-2007. The Fourth Year Elective Manual was revised based on recommendations from the Curriculum Committee. The Office of Student Affairs oversaw significant renovations to the MSB first floor auditorium in the summer of 2006.
Student Affairs supports a tutoring program which pays upperclassman and/or graduate students to tutor Freshman and Sophomore students who request assistance. In 2005-2006, six (6) tutors provided 80.25 hours of tutoring to eleven (11) students in Pathology, Histology, and Gross Anatomy.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2005-2006 is outlined below:

<table>
<thead>
<tr>
<th></th>
<th></th>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Visitors</td>
<td>29</td>
<td>22</td>
<td>19</td>
<td>25</td>
<td>20</td>
</tr>
<tr>
<td>From LCME Schools</td>
<td>8</td>
<td>10</td>
<td>8</td>
<td>9</td>
<td>6</td>
</tr>
<tr>
<td>From Osteopathic Schools</td>
<td>5</td>
<td>3</td>
<td>5</td>
<td>9</td>
<td>10</td>
</tr>
<tr>
<td>From Foreign Schools</td>
<td>16</td>
<td>9</td>
<td>6</td>
<td>7</td>
<td>4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Completed Paperwork, but Cancelled Visit</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From LCME Schools</td>
<td>6</td>
<td>4</td>
<td>2</td>
<td>7</td>
<td>2</td>
</tr>
<tr>
<td>From Osteopathic Schools</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>From Foreign Schools</td>
<td>2</td>
<td>3</td>
<td>0</td>
<td>4</td>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Departments in which Electives were taken</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anesthesiology</td>
</tr>
<tr>
<td>Clinical Pharmacology</td>
</tr>
<tr>
<td>Emergency Medicine</td>
</tr>
<tr>
<td>Family Practice</td>
</tr>
<tr>
<td>Internal Medicine</td>
</tr>
<tr>
<td>Medical Genetics</td>
</tr>
<tr>
<td>Neurology</td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
</tr>
<tr>
<td>Ophthalmology</td>
</tr>
<tr>
<td>Orthopedics</td>
</tr>
<tr>
<td>Pathology</td>
</tr>
<tr>
<td>Pediatrics</td>
</tr>
<tr>
<td>Psychiatry</td>
</tr>
<tr>
<td>Radiology</td>
</tr>
<tr>
<td>Surgery</td>
</tr>
</tbody>
</table>

182
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>American</td>
<td>Foreign</td>
<td>American</td>
<td>Foreign</td>
</tr>
<tr>
<td>January</td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>February</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>March</td>
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<td>May</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>June</td>
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<td>4</td>
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<td>July</td>
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<td>December</td>
<td>0</td>
<td>1</td>
<td>0</td>
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</table>

Letters of evaluation (Dean’s Letters) were written for each of the 60 seniors who graduated in May, 2006. Students applied to 1377 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Fifty-three (53) of the sixty (60) students matched for residency positions. Fifty-four (54) of the May graduates used the NRMP as their primary means of obtaining residency. Six (6) graduates used the San Francisco Subspecialty Match, American Urology Association Match, or Military Match. Seven (7) students secured residency training positions in the “scramble” that followed the match.

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Graduates</th>
<th>Match Utilized</th>
<th>Initially Failed to Match in NRMP</th>
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<td></td>
<td></td>
<td>NRMP</td>
<td>Non-NRMP*</td>
</tr>
<tr>
<td>2002</td>
<td>60</td>
<td>55</td>
<td>4</td>
</tr>
<tr>
<td>2003</td>
<td>60</td>
<td>49</td>
<td>10</td>
</tr>
<tr>
<td>2004</td>
<td>61</td>
<td>56</td>
<td>5</td>
</tr>
<tr>
<td>2005</td>
<td>60</td>
<td>50</td>
<td>10</td>
</tr>
<tr>
<td>2006</td>
<td>61</td>
<td>55</td>
<td>6</td>
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### University of South Alabama Seniors
Residencies Received by Discipline

<table>
<thead>
<tr>
<th>PRIMARY CARE:</th>
<th>Class of 2002</th>
<th>Class of 2003</th>
<th>Class of 2004</th>
<th>Class of 2005</th>
<th>Class of 2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Medicine</td>
<td>37</td>
<td>62%</td>
<td>30</td>
<td>51%</td>
<td>25</td>
</tr>
<tr>
<td>Family Medicine</td>
<td>31</td>
<td>52%</td>
<td>17</td>
<td>29%</td>
<td>19</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>2</td>
<td>3%</td>
<td>3</td>
<td>5%</td>
<td>9</td>
</tr>
<tr>
<td>Med/Psych</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Med/Peds</td>
<td>2</td>
<td>3%</td>
<td>2</td>
<td>3%</td>
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<tr>
<td>Anesthesiology</td>
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<td>0</td>
<td>3</td>
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<tr>
<td>Dermatology</td>
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<td>Emergency Medicine</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Neurology</td>
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<td>2</td>
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<td>4</td>
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<tr>
<td>OB/Gyn</td>
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<td>5</td>
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<td>Ophthalmology</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
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<tr>
<td>Orthopedics</td>
<td>3</td>
<td>4</td>
<td>3</td>
<td>2</td>
<td></td>
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<tr>
<td>Otolaryngology (ENT)</td>
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<td>Pathology</td>
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<td>Physical Medicine &amp; Rehabilitation</td>
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<tr>
<td>Psychiatry</td>
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<td>1</td>
<td>2</td>
<td>1</td>
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</tr>
<tr>
<td>Psychiatry/Neurology</td>
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<tr>
<td>Radiology</td>
<td>4</td>
<td>3</td>
<td>2</td>
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<tr>
<td>Surgery</td>
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<tr>
<td>Transitional</td>
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<tr>
<td>Urology</td>
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### University of South Alabama Seniors
Residencies Received by State

<table>
<thead>
<tr>
<th>Year</th>
<th>Alabama</th>
<th>USA Hospitals (Mobile)</th>
<th>Out-of-State</th>
<th>Number of Different States</th>
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</thead>
<tbody>
<tr>
<td>2002</td>
<td>24</td>
<td>40%</td>
<td>16</td>
<td>34 57%</td>
</tr>
<tr>
<td>2003</td>
<td>25</td>
<td>42%</td>
<td>20</td>
<td>34 58%</td>
</tr>
<tr>
<td>2004</td>
<td>23</td>
<td>38%</td>
<td>14</td>
<td>38 62%</td>
</tr>
<tr>
<td>2005</td>
<td>25</td>
<td>42%</td>
<td>15</td>
<td>34 57%</td>
</tr>
<tr>
<td>2006</td>
<td>23</td>
<td>37%</td>
<td>12</td>
<td>38 62%</td>
</tr>
</tbody>
</table>
Sixty seniors received the degree Doctor of Medicine at Commencement on May 6, 2006. On the evening of May 5, the College held its thirty-first Honors Convocation, which took place in the Mitchell Center. Dr. J. Allan Tucker addressed the class and Kenneth K. Davenport, Jr. responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award .......................................................... Nathan S. Sumner

Outstanding Student in the Anatomical Sciences ........................................ Nathan S. Sumner

Charles M. Baugh Award in Biochemistry ........................................ Adam W. Anz

Medical Assurance Award .................................................. J. Bradley Proctor

Leonard Tow Humanism in Medicine Award ........................................ Athena F. LeFort

SNMA Leadership Award ..................................................... Chanté M. Ruffin

Community Service Award ................................................... Chanté M. Ruffin

Lewis Anderson Medical Student Achievement Award ............................ Glenn L. Wilson

Obstetrics/Gynecology Award ................................................ Amy E. McDuffie

William A. Gardner, Jr. Pathology Award ......................................... Nathan S. Sumner

Merck Award ................................................................. Adam W. Anz

Samuel Eichold Award ......................................................... Linsey Steadman

Hollis J. Wiseman Award for Excellence in Pediatrics .......................... Sara J. Belsches

Pharmacology Achievement Award .............................................. Ralph L. Aquadro, III

John W. Donald Memorial Award in Surgery ...................................... Zachary M. Stone

Medical Alumni Leadership Award .............................................. Kenneth K. Davenport, Jr.

Charles W. Urschel Achievement Award in Physiology ........................ J. Bradley Proctor

Excellence in Emergency Medicine Award ....................................... Daniel A. Zirkin

Glasgow-Rubin Achievement Citation - American Medical Women’s Association .......................................................... Sara J. Belsches
## 2005-2006
### Grades Assigned

<table>
<thead>
<tr>
<th>Course</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Freshman Courses</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Average GPA: 3.14</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>24</td>
<td>24</td>
<td>15</td>
<td>6</td>
<td>2</td>
<td>2.96</td>
</tr>
<tr>
<td>Intro to Clinical Medicine</td>
<td>50</td>
<td>17</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3.67</td>
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<td>Public Health</td>
<td>50</td>
<td>14</td>
<td>5</td>
<td>1</td>
<td>0</td>
<td>3.61</td>
</tr>
<tr>
<td>Physiology</td>
<td>17</td>
<td>35</td>
<td>13</td>
<td>5</td>
<td>0</td>
<td>2.91</td>
</tr>
<tr>
<td>Gross Anatomy</td>
<td>12</td>
<td>41</td>
<td>15</td>
<td>1</td>
<td>2</td>
<td>2.85</td>
</tr>
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<td>Histology</td>
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<td>37</td>
<td>14</td>
<td>3</td>
<td>1</td>
<td>2.87</td>
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<td>Developmental Anatomy</td>
<td>16</td>
<td>46</td>
<td>9</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Sophomore Courses</strong></td>
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<td></td>
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<td>Average GPA: 3.30</td>
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<tr>
<td>Genetics</td>
<td>37</td>
<td>22</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>3.50</td>
</tr>
<tr>
<td>Intro. To Clinical Med. II</td>
<td>33</td>
<td>31</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.52</td>
</tr>
<tr>
<td>Microbiology</td>
<td>13</td>
<td>37</td>
<td>14</td>
<td>0</td>
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<td>2.98</td>
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<tr>
<td>Pathology</td>
<td>19</td>
<td>34</td>
<td>11</td>
<td>0</td>
<td>0</td>
<td>3.13</td>
</tr>
<tr>
<td>Neuroscience</td>
<td>18</td>
<td>31</td>
<td>13</td>
<td>1</td>
<td>1</td>
<td>3.00</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>26</td>
<td>29</td>
<td>6</td>
<td>2</td>
<td>0</td>
<td>3.20</td>
</tr>
<tr>
<td>Behavioral Sciences</td>
<td>51</td>
<td>13</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.80</td>
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<tr>
<td><strong>Junior Clerkships</strong></td>
<td></td>
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<td>Average GPA: 3.60</td>
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<tr>
<td>Family Practice</td>
<td>28</td>
<td>33</td>
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<td>0</td>
<td>3.41</td>
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<tr>
<td>Internal Medicine</td>
<td>39</td>
<td>25</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.61</td>
</tr>
<tr>
<td>Neurology</td>
<td>56</td>
<td>5</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>3.92</td>
</tr>
<tr>
<td>Obstetrics/Gynecology</td>
<td>50</td>
<td>11</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>3.73</td>
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<tr>
<td>Pediatrics</td>
<td>30</td>
<td>34</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>3.43</td>
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<tr>
<td>Psychiatry</td>
<td>53</td>
<td>11</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3.80</td>
</tr>
<tr>
<td>Surgery</td>
<td>23</td>
<td>43</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>3.33</td>
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### Academic Progress of Medical Students

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

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Students in Class</td>
<td>64</td>
<td>65</td>
<td>67</td>
<td>60</td>
<td>64</td>
</tr>
<tr>
<td>Graduates</td>
<td>60</td>
<td>59</td>
<td>60</td>
<td>56</td>
<td>60</td>
</tr>
<tr>
<td>True Attrition (will not receive M.D. in any year)</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>N/A</td>
<td>N/A</td>
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### Dismissed

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Sophomores</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Seniors</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Placed on Leaves of Absence (LOA)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshmen</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sophomores</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>3</td>
<td>10</td>
<td>11</td>
<td>7</td>
<td>5</td>
</tr>
<tr>
<td>Transferred to Another Medical School</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Withdrew</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Admitted with Advanced Standing or Re-entered from Graduate School</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Deceased</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Repeated All or Part of the Year</td>
<td>2</td>
<td>5</td>
<td>3</td>
<td>6</td>
<td>1</td>
</tr>
<tr>
<td>Enrolled on a Decelerated Schedule</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

### Minority Students (Black, Native American, Hispanic)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>38</td>
<td>35</td>
<td>30</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>Freshmen</td>
<td>12</td>
<td>9</td>
<td>7</td>
<td>8</td>
<td>6</td>
</tr>
<tr>
<td>All Other Classes</td>
<td>26</td>
<td>26</td>
<td>23</td>
<td>20</td>
<td>22</td>
</tr>
</tbody>
</table>

187
**United States Medical Licensure Examination (USMLE) Step 1**  
First Time Takers

<table>
<thead>
<tr>
<th></th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>63</td>
<td>64</td>
<td>62</td>
<td>59</td>
<td>65</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>215</td>
<td>216</td>
<td>216</td>
<td>216</td>
<td>217</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>213</td>
<td>207</td>
<td>210</td>
<td>208</td>
<td>225</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>10%</td>
<td>9%</td>
<td>8%</td>
<td>8%</td>
<td>7%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>5%</td>
<td>14%</td>
<td>18%</td>
<td>12%</td>
<td>2%</td>
</tr>
</tbody>
</table>

Standard Deviation approximately 20

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

<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>57</td>
<td>59</td>
<td>60</td>
<td>59</td>
<td>Not Avail.</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>216</td>
<td>216</td>
<td>220</td>
<td>221</td>
<td>Not Avail.</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>221</td>
<td>215</td>
<td>219</td>
<td>212</td>
<td>Not Avail.</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>4%</td>
<td>4%</td>
<td>6%</td>
<td>6%</td>
<td>Not Avail.</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>0</td>
<td>7%</td>
<td>5%</td>
<td>8%</td>
<td>Not Avail.</td>
</tr>
</tbody>
</table>

Points above and below national mean in parentheses  
NA = Not Available. Individual 3-digit scores no longer reported after 2001

Minimum passing score = 170 for Class of 1997-2000; 174 beginning with Class of 2001; 182 beginning with the Class of 2004  
Standard deviation = approximately 20

188
<table>
<thead>
<tr>
<th>National Percentage Passing</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
<th>Class of 2001</th>
<th>Class of 2002</th>
<th>Class of 2003</th>
</tr>
</thead>
<tbody>
<tr>
<td>USA Percentage Passing</td>
<td>98</td>
<td>100</td>
<td>97</td>
<td>93</td>
<td>100</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>53* (&lt;58 students have taken Step 3 as of 4/03)</td>
<td>51** (&lt;59 students have taken Step 3 as of 8/03)</td>
<td>63*** (&lt;63/65 students have taken Step 3 as of 12/05)</td>
<td>53x (&lt;53/60 students have taken Step 3 as of 12/05)</td>
<td>52xx (&lt;52/60 students have taken Step 3 as of 12/05)</td>
</tr>
</tbody>
</table>
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 2005 graduates. A total of 45 responses were received out of 59 requests. Below is a summary of the responses to the four major areas that were assessed. Note that according to the results of the most recent questionnaire, about 63% of our graduates were felt to be functioning in the top fifth and upper middle fifth of their PGY-1 groups.

<table>
<thead>
<tr>
<th>Medical Knowledge</th>
<th>Class of 2002</th>
<th>Class of 2003</th>
<th>Class of 2004</th>
<th>Class of 2005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Fifth</td>
<td>26%</td>
<td>26%</td>
<td>23%</td>
<td>24%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>31%</td>
<td>28%</td>
<td>20%</td>
<td>33%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>43%</td>
<td>36%</td>
<td>47%</td>
<td>36%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>0%</td>
<td>10%</td>
<td>7%</td>
<td>4%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>3%</td>
<td>2%</td>
</tr>
</tbody>
</table>

| Data Collection                    |               |               |               |               |
| Top Fifth                          | 26%           | 21%           | 26%           | 16%           |
| Upper Middle Fifth                 | 44%           | 52%           | 30%           | 47%           |
| Middle Fifth                       | 28%           | 26%           | 40%           | 38%           |
| Lower Middle Fifth                 | 0%            | 0%            | 0%            | 0%            |
| Bottom Fifth                       | 0%            | 0%            | 3%            | 0%            |

| Clinical Judgment and Skills       |               |               |               |               |
| Top Fifth                          | 33%           | 21%           | 20%           | 23%           |
| Upper Middle Fifth                 | 33%           | 55%           | 50%           | 41%           |
| Middle Fifth                       | 33%           | 24%           | 23%           | 33%           |
| Lower Middle Fifth                 | 0%            | 0%            | 7%            | 2%            |
| Bottom Fifth                       | 0%            | 0%            | 0%            | 0%            |

| Professional Attitudes             |               |               |               |               |
| Top Fifth                          | 44%           | 28%           | 37%           | 27%           |
| Upper Middle Fifth                 | 31%           | 52%           | 37%           | 40%           |
| Middle Fifth                       | 23%           | 17%           | 23%           | 27%           |
| Lower Middle Fifth                 | 2%            | 2%            | 3%            | 7%            |
| Bottom Fifth                       | 0%            | 0%            | 0%            | 0%            |

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

The 2005-2006 Curriculum Committee was chaired by Dr. Michael Culpepper, Department of Internal Medicine. The committee focused on the following issues.

The redesign of the entire curriculum to a subject-based format was raised by Dr. Robert Kreisberg at the May 2005 Curriculum Committee meeting. The committee formed an Integrated Curriculum Examination (ICE) Task Force to evaluate the feasibility and desirability of such a redesign. Dr. Elliot Carter chaired the task force and the other members on the task force were Judith Burnham; Renee Bonetti, COM II student; Dr. Michael Chinkers; Dr. Susan LeDoux and Dr. Margaret O'Brien. The ICE Task Force utilized the following methods of data collection to formulate recommendations for the USA COM curriculum: 1) Search of the medical database for information pertinent to alternative and integrative curricula; 2) Documentation of the curricula of each medical school in the United States as listed on the American Association of Medical Colleges web site; 3) Analysis of the USMLE Step I examination scores of the USA COM class of 2007 (current USA COM III students); 4) Review of survey data from USA COM III and IV students concerning the current curriculum as well as proposed changes to the current curriculum; 5) Review of survey data from USA COM basic science and clinical science faculty concerning the current curriculum as well as proposed changes to the current curriculum; and 6) Review of possible USA COM student recruitment and retention issues posed by major curriculum changes with input from the USA COM Director of Admissions.

Based on the data collected the following recommendations were made: 1) Maintain the current predominantly discipline-based structure of the curriculum of the USA COM curriculum; 2) Charge the USA COM Curriculum Committee with facilitating an interface between basic science departments and related clinical science departments with the purpose of making the material taught in the basic science courses more clinically focused; 2) Investigate ways to provide more clinical exposure for students in the first two years of the USA COM curriculum; 3) Explore the feasibility of establishing a course near the end of the USA COM sophomore curriculum that interprets relevant basic science concepts in a clinical context; 4) Emphasize the importance of the acquisition of life-long learning skills to both basic science and clinical science faculty; 5) Upgrade existing USA COM classroom/lecture facilities to support online learning efforts; 6) Establish a curriculum web page on the USA COM web site with monthly updates sent electronically to USA COM faculty and students; and 7) Explore the feasibility of establishing COM IV electives that utilize basic science concepts in a clinically relevant format.

The recommendations from the ICE task force formed the basis for the formation of three subcommittees for this year. The first of the subcommittees focused on life-long learning. This subcommittee used two methods to evaluate the emphasis on life-long learning in the College of Medicine curriculum. First, surveys were sent to all Course Directors for COM I, COM II and COM III, and to students in all three classes. Second, syllabi were obtained for all COM I, COM II and COM III courses and rotations. These were analyzed using specific criteria developed by the subcommittee. The findings of the subcommittee were that, overall, there is appropriate emphasis on life-long learning. Based on the results of the surveys, it appears that while course directors emphasize and discuss how to learn, students do not always hear the message regarding life-long learning skills and problem solving techniques.
Based on the conclusions from both the surveys and analysis of the syllabi, the subcommittee recommended that Course Directors should include a statement in the syllabus about life-long learning in their particular discipline. Also Course Directors should include information about life-long learning in their discipline in the course lectures. Finally, the subcommittee recommended that evidence-based medicine resources and outside reading should be encouraged and emphasized in all courses.

The second subcommittee focused on curriculum integration. The strategy that was used by this subcommittee was to review course content for the two basic science years using syllabi provided by course directors. Presentation of material for specific systems was documented across courses and methods used to introduce clinical relevance were noted. The consensus of this subcommittee was that continuity/reinforcement of curriculum content is useful. A recommendation was made that course materials regarding one system should be made available to all faculty teaching that system in various courses. Additionally, the subcommittee recommended that mechanisms be identified to reinforce the relevance of basic sciences to clinical medicine in the first two years by developing “mini-cases” for use in lectures to show applicability of their material.

The third subcommittee was charged with determining the feasibility of developing a single, focused course that would provide an opportunity to review the basic medical sciences in correlation with one another and to clinical application. Through a series of discussions, several different scenarios were explored. It was agreed that it would be better to incorporate the transition from basic science knowledge to clinical application in a more longitudinal manner. In order to begin this process, a meeting was arranged with the freshman and sophomore Course Directors to assess the current level “transition” that is incorporated in our present curriculum. During the course of the meeting, it became apparent that although different mechanisms for “transitioning” the information from basic science facts to clinical application were being utilized in the various courses, all of the courses contained this aspect. Currently the spring semester of the second year is extremely intense. Thus, it would seem that it would be better to strengthen the “transitioning” aspects within the individual courses. In order to strengthen these aspects of the various courses, the following recommendations are made: 1) Develop a clinical oversight committee; 2) Develop a centralized core of clinical scenarios to be used in all courses; 3) Interact with course directors to facilitate the inclusion of the scenarios in the curriculum; and 4) Develop a means for evaluation of effectiveness.

A fourth subcommittee dealt with fourth year electives. The two main issues facing the subcommittee were the need to establish a means of student evaluations of fourth year electives and the feasibility of establishing a fourth year required month which would integrate basic sciences and clinical skills.

During the 2005-2006 academic year, as a part of the continuing evaluation of our curriculum, the second year Course Directors presented an update to the Curriculum Committee. Additionally, updates were presented on the two new courses, Neuroscience and Fundamentals of Doctoring. Also during this year, new fourth year electives were added. A senior level elective in Forensics and one in psychiatry were added. The required fourth year rotation in Women’s Health was eliminated and a second acting AI in Internal Medicine was created that will be based at the Mobile Infirmary.
In lieu of a curricular retreat, the College of Medicine participated in the International Association of Medical Science Educators annual video-cast consisting of six one-hour lectures. The topics in the video-cast reflected many areas of interest to the COM. The numerated topics were: 1) educational technology tool kit; 2) finding free technology resources; 3) electronic exams; 4) electronic course management; 5) digitalized lecture formats; and 6) virtual microscopy.
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The Officers for 2005-06 were Adam Anz, President, Adam Handwerger, Vice President, Melinda Rixey, Secretary. The Faculty Advisors were Dr. Judy Blair-Elortegui, Internal Medicine and Dr. Elliott Carter, Pathology.

ISSUES Addressed by the Student Assembly

1) Support and permission granted by the dean to update the College of Medicine website; Dr. Susan LeDoux, in joint cooperation with the College of Medicine Public Relations, to work with consultants engaged to develop revisions;

2) Hurricane Katrina Aid Effort: all classes planned participation/projects with Volunteers of America;

3) The development of a chapter of The Gold Humanism Honor Society, for the College of Medicine;

4) New requirement for students to complete six hours of community service as part of the freshmen curriculum;

5) Mobile Infirmary/USA affiliation;

6) Report of AAMC National Meeting (November) by OSR Representative, Marianne Grammas. Important issues were: Disaster Plans, Background Checks, AAMC Graduation Questionnaire, and NBME/USMLE exams and score reports;

7) Report of the American Medical Association (AMA) Regional Meeting (January) by Amanda England, AMA Chair, on the Student Section Issues: Higher Education Act Renewal; Medicare Payments to Physicians Decrease (26% over six years; cost of care for patients will rise to 15%); Lobby Day 2006 in Washington, DC (arrangements have been made for students to meet with their state representatives for “lobby” training);

8) Annual health insurance update indicated a 23% rate increase for current student plan; a rate still below the national average;

9) Increase in matriculating class size (70 in the Class of 2009; 74 expected to be accepted in the Fall of 2006, Class of 2010);
10) A Higher Education (T.H.E.) Seminar was held in March and reported successful in educating students regarding consolidation and repayment of loans;

11) USA COM was well represented at the American Medical Student Association (AMSA) National Convention. Major issues covered at the meeting included: “Pharm-free” movement to regulate advertisement, Hurricane Katrina efforts, Medical School Fair for undergraduate pre-meds.
## OFFICE OF FINANCIAL AID

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Total Financial Aid</td>
<td>$6,025,601</td>
<td>$6,262,549</td>
<td>$6,996,664</td>
<td>$7,112,209</td>
<td>$7,476,092</td>
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<td>247</td>
<td>245</td>
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<tr>
<td><strong>Loans</strong></td>
<td></td>
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<tr>
<td>Perkins</td>
<td>467,555</td>
<td>898,000</td>
<td>928,158</td>
<td>865,985</td>
<td>912,480</td>
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<td>Loan</td>
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<td>Stafford Loan</td>
<td>1,834,097</td>
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<td>Graduate Unsubsidized</td>
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<td>3,536,833</td>
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<td>Loans to Disadvantaged Students</td>
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<td>Outside Private Loans</td>
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<td><strong>Total Loans</strong></td>
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<td>$5,676,103</td>
<td>$6,280,083</td>
<td>$6,009,090</td>
<td>$6,304,601</td>
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<td><strong>Scholarships</strong></td>
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<tr>
<td>University Sponsored</td>
<td>367,950</td>
<td>372,200</td>
<td>417,638</td>
<td>410,923</td>
<td>493,272</td>
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<tr>
<td>Outside Sponsored</td>
<td>53,128</td>
<td>87,046</td>
<td>148,054</td>
<td>510,561</td>
<td>481,251</td>
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<tr>
<td>Military – Army</td>
<td>27,089</td>
<td>27,088</td>
<td>32,004</td>
<td>38,395</td>
<td>27,423</td>
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<tr>
<td>Military – Navy</td>
<td>27,061</td>
<td>27,060</td>
<td>21,300</td>
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<tr>
<td>Alabama Medical</td>
<td>70,000</td>
<td>55,000</td>
<td>55,000</td>
<td>55,000</td>
<td>45,000</td>
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<td>Board Scholarship</td>
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<tr>
<td>Military - Air Force</td>
<td>27,089</td>
<td>18,052</td>
<td>42,585</td>
<td>62,432</td>
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<td><strong>Total Scholarships</strong></td>
<td>$572,317</td>
<td>$586,446</td>
<td>$716,581</td>
<td>$1,103,119</td>
<td>$1,171,490</td>
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<tr>
<td><strong>Average Indebtedness of a Graduating Senior</strong></td>
<td>$88,717</td>
<td>$82,904</td>
<td>$88,830</td>
<td>$90,416</td>
<td>$98,952</td>
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</table>

An Emergency Loan Fund is available to medical students. Loans of up to $500 may be obtained by students through a fund administered by the Office of Student Affairs and Medical Education for a period of up to 60 days for the purpose of alleviating an unanticipated financial need. There is no interest charged. During the period August 1, 2005, through July 31, 2006, 21 emergency loans were approved for a total amount of $10,200.00. During that period, 28 payments totaling $13,700.00 were paid back into the loan account.
Biomedical Enrichment and Recruitment Program (BEAR):

Phase I:

The summer of 2006 marked the completion of the twentieth year for the BEAR program. There were a total of eighteen applications submitted for the 2006 program. Twelve (12) students entered into Phase I of the BEAR program.

The students selected for Phase I of the program represented the following schools:

- Alabama A&M ................................................. 2
- Cornell ......................................................... 1
- Spelman ....................................................... 1
- Springhill ..................................................... 1
- Stillman ....................................................... 1
- Tennessee State .............................................. 1
- Tuskegee ...................................................... 1
- USA .......................................................... 4

and are residents of the states of Alabama (9), Florida (1), Georgia (1) and Mississippi (1). Nine (9) of the students are female and three (3) are male. All are African American. The grade point averages of the students who entered the program ranged from 3.37 to 4.0. Their ACT score range was 20-26. To date, a total of 209 students have entered the BEAR program.

Phase II:

Ten (10) of the eleven (11) students who participated in Phase I of the program during the last summer (2005) were successful. One was unsuccessful.

The students in Phase II represented the following schools:

- Alabama A&M ................................................. 1
- Alcorn .......................................................... 2
- Mobile College ............................................... 1
- Dillard .......................................................... 3
- Talladega ....................................................... 1
- Tuskegee ...................................................... 1
- UAB ........................................................... 1
Of the ten (10) Phase II students who participated, six (6) are residents of Alabama, one (1) is a resident of Louisiana, two (2) are residents of Mississippi, and one (1) is a resident of Chicago. Six (6) of the students in Phase II were successful and four (4) were unsuccessful.

In August 2005, five (5) minority freshmen entered the College of Medicine; three (3) entered through the BEAR program. There were six (6) 2006 African American medical school graduates who were former BEAR students.

In the fall of 2006, four (4) BEAR students matriculated into the freshmen COM class from the original 2004 BEAR cohort, and one (1) student entered from the BEAR cohort class that began in 2003. The total number of minority students in the freshman year is nine (9) which includes five (5) BEAR students and four (4) traditional students. In the fall of 2006 the total College of Medicine enrollment is 276 students. Twenty-one (7.6%) are BEAR students, and the overall percentage of African American students is 10.5%.

**RECRUITMENT**

In addition to the BEAR program recruitment efforts, the Office of Educational Enrichment visited four (4) universities in an effort to recruit students. The universities visited were: Alabama State, Alabama A&M, Spelman and Morehouse. Also, in an effort to track and recruit students we have mailed three (3) letters to freshmen, fourteen (14) letters to sophomores, forty-one (41) letters to juniors, and eighty-three (83) letters to seniors.
BEAR PROGRAM STATISTICS SUMMARY
June, 1986 - August, 2006

Total who entered program ................................................................. 209
Total who did not successfully complete Phase I .................................. 25
Total who did not successfully complete Phase II ................................. 31
Total who participated in Phase I only ............................................... 2*
Total who participated in Phase II Enrichment only ............................ 9**
Total who did not return for Phase II ................................................ 13^2
Total scheduled to enter Phase II in 2007 ...................................... 12
Total who successfully completed both Phases .................................. 117

* - Entered USA COM after only 1 year in BEAR
** - Participated in Phase II for enrichment only
^2 - Two students entered other medical schools after only one year in BEAR

TRACKING INFORMATION OF THE 117 SUCCESSFUL BEAR PROGRAM STUDENTS

Of the 117 students who completed both phases:

Total BEAR students entered USA COM to date .................................. 96
Graduated from USA COM ............................................................... 58
  Graduated in 4 years = 39
Currently enrolled in medical school .............................................. 21
Withdrawn from medical school ...................................................... 9
Dismissed from medical school ...................................................... 8
Chose not to matriculate ............................................................... 4
Enrolled in other institutions ......................................................... 11
Scheduled to enter USA COM in 2007 ............................................ 6
Retention in USA COM ................................................................. 79 (82.2%)

TRADITIONAL MINORITY STUDENT STATISTICS SUMMARY

Total traditional students entered USA COM to date ............................ 71
Graduated ................................................................. 43
Currently enrolled ........................................................... 08
Dismissed ............................................................... 11
Withdraw .............................................................. 9
Retention ............................................................. 51 (72%)

*Includes 2 students attending 1 year in BEAR

BEAR Program student retention exceeds traditional student retention in medical school by 10.2%
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 14, 2006, opened June 1st and closed November 15, 2005.

For the Class of 2010, one thousand fifty-four (1054) applications were received. Four hundred ten (410) applications were received from Alabama residents, five hundred forty-one (541) from out of state U.S. citizens, and one hundred three (103) from citizens of foreign countries. The Admissions Committee interviewed a total of two hundred three (203) applicants of which one hundred eighty-one (181) were residents of Alabama. Of the applicants interviewed, one hundred thirty-five (135) were offered admission to fill a class of seventy-four (74). Sixty-five (65) of the matriculating students are Alabama residents. Sixteen (16) offers of admission were made to Black applicants; eleven (11) will matriculate. Five (5) of the matriculating black students are BEAR (Biomedical Enrichment and Recruitment) students. This year, our records indicate an increase in the total number of applications received (1054 in '06 vs. 809 in '05); there was also an increase in Alabama applicants (410 in '06 vs. 362 in '05). Table I gives comparative data since 2003.

The 2006 entering class has an exceptional "mix" of academically well-qualified students who graduated from thirty (30) colleges and universities. However, 47% of this year's class is made up of students from the four largest universities in the state.

Recruitment and Retention Efforts

1. Undergraduate campus recruiting visits and sophomore interviews were implemented by "teams" of faculty, administration, and medical students. The USACOM recruiting teams counseled over 500 premedical students at 11 colleges and universities.

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

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

4. Informative health career related programs were organized and conducted upon request for high school students, community organizations, and premedical special interest groups.
5. Special admissions reports and correspondence were produced and distributed monthly to instate premedical advisors and selected out-of-state advisors.

6. A total of 17 Applicant Interview Day programs were conducted from September until early April. The interviewers, primarily College of Medicine basic science and clinical faculty, serve as members of the Committee on Admissions and/or ad hoc committee. These members interviewed 203 candidates; each interviewee was interviewed by three committee members, giving a total of 609 interviews.

7. The following Admissions Committee subcommittees were active in 2005-06:
    Early Acceptance Program Subcommittee

**Early Acceptance Program**

In 1990, the College of Medicine and the University's Health Preprofessions Program established an Early Acceptance Program (EAP) for qualified high school graduates interested in a career in medicine. Candidates selected for this program must have a minimum high school GPA of 3.5 and an ACT score of 28 (or comparable SAT). Candidates selected for this program receive early acceptances from the University of South Alabama and the University of South Alabama College of Medicine. The students enter the Health Preprofessions Program at the University of South Alabama, and their curriculums include the core requirements for their selected baccalaureate program and prerequisites for entering medical school. Students in this program must maintain a specific GPA during college, and are required to meet all other requirements for entering medical school. Students participate in a variety of activities selected 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.

In 2006, the EAP Subcommittee interviewed 45 applicants for the program and offered 15 acceptances.
| Table 1 |
| University of South Alabama College of Medicine Admissions Report |

<table>
<thead>
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<th>Total Applicants</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
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<tr>
<td>Residence:</td>
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<tr>
<td>Alabama</td>
<td>371</td>
<td>353</td>
<td>362</td>
<td>410</td>
</tr>
<tr>
<td>Out-of-State</td>
<td>329</td>
<td>366</td>
<td>384</td>
<td>517</td>
</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
<td>49</td>
<td>36</td>
<td>47</td>
<td>24</td>
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<tr>
<td>Foreign</td>
<td>17</td>
<td>32</td>
<td>16</td>
<td>103</td>
</tr>
<tr>
<td>Alabama Female</td>
<td>183</td>
<td>156</td>
<td>170</td>
<td>207</td>
</tr>
<tr>
<td>Out-of State Female</td>
<td>197</td>
<td>179</td>
<td>199</td>
<td>248</td>
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<tr>
<td>Alabama Rural</td>
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<td>75</td>
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<td>79</td>
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<tr>
<td>Alabama Black</td>
<td>59</td>
<td>56</td>
<td>47</td>
<td>46</td>
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<tr>
<td>Out-of-State Black</td>
<td>48</td>
<td>34</td>
<td>44</td>
<td>73</td>
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<tr>
<td>Total Applicants Interviewed</td>
<td>191</td>
<td>207</td>
<td>198</td>
<td>203</td>
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<th>2004</th>
<th>2005</th>
<th>2006</th>
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<tbody>
<tr>
<td>Total Applicants Accepted</td>
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<td>128</td>
<td>137</td>
<td>135</td>
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<th>2004</th>
<th>2005</th>
<th>2006</th>
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<tbody>
<tr>
<td>Total Matriculants</td>
<td>64</td>
<td>64</td>
<td>70</td>
<td>74</td>
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<tr>
<td>Average MCAT</td>
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<td>29</td>
<td>32</td>
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<tr>
<td>Average GPA</td>
<td>3.7</td>
<td>3.7</td>
<td>3.65</td>
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<th>Residence:</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
<th>2006</th>
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<tbody>
<tr>
<td>Total Black</td>
<td>59</td>
<td>56</td>
<td>62</td>
<td>65</td>
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<tr>
<td>Out-of-State</td>
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<td>Female</td>
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<td>Bear Program</td>
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<td>5</td>
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202
GENERAL:
The Office of Continuing Medical Education (CME) at the University of South Alabama makes it possible for medical professionals to receive credit units required to keep their license current. The goal of the CME program is to provide educational activities intended to improve the knowledge, skills, and clinical proficiency of physicians, and to enrich the quality of health care provided for the citizens and surrounding communities of Alabama. The program will offer activities that will entail all medical specialties at the University hospitals and clinics, affiliated hospitals and rural area physicians. Other CME activities may include: didactic lectures, Network for Continuing Medical Education (NCME) teaching videos, enduring materials, grand rounds, patient care reviews, journal clubs and unique activities. In fulfilling our mission, the CME Office provided instruction to physicians and non-physician participants in sixteen (16) on-going departmental activities accounting for approximately 360 CME credit hours and eight (8) unique (or one time) activities accounting for 33.25 CME credit hours. With the wide range of activities offered, physicians were educated on the latest developments in technology and scientific advancements of medicine. Taking part in these activities allows physicians to provide enhanced patient care to surrounding areas.

QUARTERLY MEETINGS:
The CME Office held four quarterly meetings in October, December, March and June. A recap of the meetings is indicated below:

October 2005: Discussion regarding on-line CME
Welcomed Ms. Alma Platt, CME Word Processing Specialist
Report on unique activities held since August 2005 CME Meeting
Summary of Quarterly Grand Rounds
Report on Linkage of Needs Assessments
Report on CME Committee List for 2005-2006

December 2005: Welcomed new committee members:
Dr. Judy King, Department of Pathology
Dr. Kevin Olden, Department of Medicine
Dr. Allen Perkins, Department of Family Medicine
Approval of CME Mission Statement
Report of upcoming CME unique activities

March 2006: On-line CME update
Report on unique activities held since December 2005 CME Meeting
Report on upcoming CME Activities

June 2006: Report on unique activities held since March 2006 CME Meeting
Report on upcoming CME unique activities
Report on evaluation of CME Program for previous year
Presentation of Policy for Commercial Support for ongoing/unique CME programs
Presentation of departmental applications
On-line CME update

203
ENDURING MATERIALS:
DVD and CD Rom videos, provided by the Network for Continuing Medical Education (NCME), are available at the Medical Center Biomedical Library. The NCME is a service linking medical schools and hospitals with the best in medical communications and is accredited by the ACCME to sponsor continuing medical education. A listing of available videos may be found on USA's CME website: www.southalabama.edu/com/cme.

CME STAFF:
The Office of Graduate Medical Education is responsible for oversight of GME activities, policies, and procedures throughout the USA Hospitals and Clinics. During the 2005-2006 academic year, USA sponsored 10 residency programs (Family Medicine, Internal Medicine, Neurology, OB/GYN, Orthopaedic Surgery, Pathology, Pediatrics, Psychiatry, Diagnostic Radiology and Surgery), one combined residency program (Med/Peds), and four medical subspecialty programs (Cardiovascular, Gastroenterology, Infectious Disease and Pulmonary Disease), comprised of 202 residents and fellows. The Department of Orthopaedic Surgery received an additional 4 residents from Louisiana State University, New Orleans displaced by Hurricane Katrina. Three of these residents are returning to their program at LSU and one will be completing his residency.

Internal reviews were conducted on 4 sub-specialty programs and 3 specialty programs during the 2005-2006 year. There were 5 ACGME/RRC Site visits. The GMEC reviewed 4 progress reports requested by the RRC as well as 6 from the internal reviews conducted. All of the residency/fellowship programs have received continued accreditation by the Accreditation Council for Graduate Medical Education (ACGME).

The Pulmonary Disease Fellowship submitted an application to change their program to a Pulmonary Disease/Critical Care Fellowship. The program was reviewed in October, 2005. The RRC requested a progress report and upon review will take final action at its September, 2006 meeting. The Pulmonary Disease Fellowship also received an increase in resident compliment from 3 to 4, effective July 1, 2006 through June 30, 2008. The Emergency Medicine Department submitted an application for a new program with the ACGME. Upon review, the RRC for Emergency Medicine requested a progress report by January, 2006. Final action of this new program is “Accreditation Withheld”. The EM department is planning on resubmitting their application to the RRC.

USA Knollwood Park Hospital was leased by the Infirmary Health System, Inc. and was renamed the Infirmary West. The Infirmary is the largest private 501(c)3 hospital system in our region with well developed clinical programs, it has a community appointed board and some of its senior medical staff have had a long standing interest in medical education. The GME Committee has removed USA Knollwood Park Hospital as an integrated institution in our programs that rotate residents at this facility. Educational Program Letters of Agreement for those programs that continue to rotate residents at the Infirmary West and Mobile Infirmary Medical Center have been developed.

The GMEC submitted a request to the Dean to investigate the possibility of creating a simulator lab with equipment for programs interested in participating in patient/equipment simulation. The Dean created a sub-committee to investigate this with Dr. Susan LeDoux as Chairman of the committee.

The GMEC submitted and received approval to increase the resident’s meal allowance from $4 to $5 per call. The committee also received approval to increase the new resident orientation days from 1 day up to an additional 5, depending on the program and to include Hospital Orientation.
The Thirty-third Annual Medical Student Research Day was held on Friday, August 4, 2006 hosting approximately 95 attendees in the College of Medicine Conference room. Sixteen first and second-year medical students participated in research projects with basic science and clinical faculty in the College of Medicine. 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. Alan Wells, Vice-Chair and Thomas J. Gill Professor of Pathology at the University of Pittsburgh School of Medicine was the keynote speaker. Dr. Wells' laboratory research program, aims to understand cell migration in terms of how motility processes are regulated, and how regulation of migration plays a role in physiological and pathological situations. His seminar was entitled, "Endothelial Cell Functionality During Wound Repair: CXCR3 Chemokines in Wound Resolution."

Dr. Solomon Ofri-Acquah chaired the Student Research Advisory Committee. Other committee members included: Drs. Martha Arriceta, Jonathon Audia, Susan LeDoux, Sudhakar Madanagopal, Elizabeth Manci, Margaret O Brien, James Parker, Rajeev Samant, Mark Taylor, and Samuel J. Strada. Ms. Natalie A. Kent, Office of the Senior Associate Dean, provided administrative support for the program.

Culmination of the summer's work was the presentation of seven oral and nine poster presentations. The presenters and their faculty sponsors were as follows:

**ORAL PRESENTATIONS**


**Ryan Palmer**, sophomore medical student. Inhibiting the RH O A pathway accelerates barrier disruption in the early stages of endothelial wound healing. Sponsored by Ofri-Acquah, Solomon, Ph.D., Department of Cell Biology and Neuroscience.


**Amber Brown**, sophomore medical student. Modulation of uterine excitability by small conductance CA^{2+} activated channel (SK3) expression during pregnancy. Sponsored by Taylor, Mark, Ph.D., Department of Physiology.
Hope Richard, Ph.D., sophomore medical student. Protein profiling of *Escherichia coli* during acid stress and recovery. Sponsored by Foster, John, Ph.D., Department of Microbiology and Immunology.

Michael Manogue, sophomore medical student. Application of a murine carotid injury model to elucidate the role of P22PHOX overexpression in potentiating restenosis. Sponsored by Weber, David, Ph.D., Department of Physiology.

Haseeb Rahman, sophomore medical student. Supra-condylar fracture fixation – a biomechanical comparison between two standard types of supracondylar nails. Sponsored by Madanagopal, Sudhakar, M.D., Department of Orthopaedic Surgery.

**POSTER PRESENTATIONS**

Crystal Harris, freshman medical student. Activated leukocyte cell adhesion molecule is a target of the environmental toxicant dioxin. Sponsored by Ofori-Acuah, Solomon, Ph.D., Department of Cell Biology and Neuroscience.

Leonardo Morantes, freshman medical student. Pulmonary microvascular endothelial cells grown in hypoxic conditions have increased permeability in the presence of reactive oxygen species compared to cells grown in normoxia. Sponsored by Fouty, Brian, M.D., Center for Lung Biology and Department of Internal Medicine.


Sarah Cantrell, sophomore medical student. The effect of ALCAM expression on breast cancer metastases to the lungs. Sponsored by King, Judy, M.D., Ph.D., Departments of Pharmacology, Pathology, and Center for Lung Biology, Alvarez, Diego, M.D., Ph.D., Stevens, Troy, Ph.D., Center for Lung Biology, Shevde-Samant, Lalita, Ph.D., Mitchell Cancer Institute.

John Ross, sophomore medical student. Mutational analysis of DNA polymerase eta on cellular sensitivity to anticancer compounds. Sponsored by Chou, Kai-ming, Ph.D., Department of Cell Biology and Neuroscience.

Jong T. Kim, sophomore medical student. Hyaluronic acid effects upon nitric oxide induced mtDNA damage in human chondrocytes. Sponsored by Pearsall, Albert IV, M.D., and Grishko, Valentina, Ph.D., Department of Orthopaedic Surgery.

Christopher Bailey, freshman medical student. The neo-angiogenic capacity of resident endothelial cells. Sponsored by Alexeyev, Mikhail, Ph.D., Department of Cell Biology and Neuroscience, Alvarez, Diego, M.D., Ph.D., King, Judy, M.D., Ph.D., Stevens, Troy, Ph.D., Center for Lung Biology.
James Richard Frost, freshman medical student. Proteomic analysis of tyrosine phosphorylated lung proteins after high airway pressure injury in mice. Sponsored by Parker, James C., Ph.D., Department of Physiology.

Christie Bean, sophomore medical student. Expression and purification of recombinant hOGG1 fusion protein and its uptake by RCSN-3 cells. Sponsored by LeDoux, Susan, Ph.D., and Wilson, Glenn, Ph.D., Department of Cell Biology and Neuroscience.

The Clyde G. Huggins Medical Student Research Awards were presented to Mr. Michael Manogue, sophomore medical student for best oral presentation and Mr. Leonardo Morantes, freshman medical student for best poster presentation. Both recipients are eligible for presentations at the Annual National Research Forum in Galveston, Texas in 2007.
Graduate Program in Basic Medical Sciences

Administration

Dr. Ronald Balczon is serving the second year of a three-year term. Elections for the next directorship term will be held in January, 2007, as the new/continuing director assumes tenure duties in June, 2007.

Admissions

The Graduate Program continues to process applications to the program directly through the University Office of Admissions and/or the International Services Office. Other required materials, i.e. letters of recommendation and personal statements, continue to be received in the BMS Graduate Office. The Graduate Office hosted formal Interview Days in March, April, May, June and July for the Fall 2006 class. Additionally, the Director and/or Academic Advisor met informally with several students visiting campus over the year. An admissions summary for the past few years, including the class of 2006, is shown below:

<table>
<thead>
<tr>
<th></th>
<th>2001</th>
<th>2002</th>
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<td>168</td>
<td>292</td>
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<tr>
<td>Inquiries International</td>
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<tr>
<td>Applicants US</td>
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<td>22</td>
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<td>17</td>
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<td>90</td>
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<td>Applicants International</td>
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<tr>
<td>Acceptances US</td>
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<td>19</td>
<td>15</td>
<td>9</td>
<td>12**</td>
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<td>Acceptances International</td>
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<td>7</td>
<td>6</td>
<td>9**</td>
<td>5</td>
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<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Matriculants International</td>
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<td>Average GRE</td>
<td>1668</td>
<td>1838</td>
<td>1101*</td>
<td>1170*</td>
<td>1100*</td>
<td>1154*</td>
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<tr>
<td>Average GPA</td>
<td>3.45</td>
<td>3.43</td>
<td>3.38</td>
<td>3.45</td>
<td>3.51</td>
<td>3.58***</td>
</tr>
</tbody>
</table>

*Only the sum of verbal and quantitative scores included after 2002
**Combined UG and GR GPA; Separate UG=3.48; GR=3.86
Recruitment Activities

1. Ads were placed in several issues of the *The Vanguard* during the academic year. Ads also ran in other local college or university newspapers.
2. Presentations were made to the Premedical Honors Society and Freshman Biomedical Sciences students at USA.
3. Information about the graduate program was distributed at several local high schools, JAGFEST, SCRUBS, and regional science conferences, including the eighty-third annual meeting of the Alabama Academy of Science, Inc. in Troy, Alabama. Also, Dr. Balczon and Lanette Flagge participated in "Alabama Connection," a statewide graduate recruiting fair in October, 2005. Dr. Balczon also traveled to University of Southern Mississippi and University of West Florida to meet with colleagues and distribute program information. In November, 2005, Dr. Balczon attended a Graduate and Professional Recruitment Fair at Georgia Southern University in Scottsboro, Georgia

Curriculum

1. The Director, together with the BMSSO leadership, held several working lunch sessions on various academic "survival skills." In this academic year, a session was held on grant writing.
2. A Special Topics course in Scientific Writing was developed and offered to Post Doctoral and Graduate Students. Effective Fall, 2006, the course will become a required course for students in the Lung Biology program.

New Programs/Policies/Requirements

1. The BMS Student Handbook was updated. Print copies were distributed to incoming students Fall, 2006. The Handbook is also available on the program web site.
2. Major Professors are using "TURNITIN" software to certify that Dissertations are original and free from plagiarism violations. The software can be accessed through the University account for this purpose. Certification (Form 9) must accompany a copy of the Dissertation when submitted for review by the Graduate School.
3. Effective August, 2006, students are also required to have all Dissertations references checked for accuracy in content and format. Students must submit a listing of their references to the Biomedical Library for formal review prior to submitting their Dissertation to the Graduate School for final review.
BMSSO-Basic Medical Sciences Student Organization

The BMSSO continues to play an active role in the graduate program. Members sponsored their annual BMSSO T-shirt design and sale to raise a portion of their operating budget for the year. Also, the organization hosted a holiday appreciation luncheon for BMS Graduate Faculty in December, 2005, and participated in a number of community and philanthropic activities, including the American Cancer Society's "Relay for Life" in May, 2006.

Extramural Support for Graduate Training

1. The NIH Predoctoral Institutional Training Grant on "Cell Signaling and Lung Pathobiology", through The Center for Lung Biology provided stipends for 6 predoctoral students in 2006. Students receive support from the training grant for a minimum of two years and are required to submit individual proposals for extramural funding.

2. In 2005-2006, two doctoral candidates in the BMS Graduate Program (students who have completed the Qualifying Examination) were supported by individual extramural predoctoral fellowships.

Graduates

Nine students completed all requirements for the Ph.D. degree during the academic year (September 2005-August 2006). They are:

Diego Fernando Alvarez
DISsertATION TITLE: "Regulation of Pulmonary Endothelial Permeability by Distinct Store Depletion-And Epoxyeicosatrienoic Acid-Induced Ca" Entry Pathways"
MAJOR PROFESSOR: Mary J. Townsley, Ph.D.
DEPARTMENT: Physiology
CURRENT POSITION: Postdoctoral Fellow, Center for Lung Biology, College of Medicine, University of South Alabama, Mobile, Alabama

Donna Louise Clolli
DISsertATION TITLE: "Contribution of Protein 4.1 to Endothelial Store-Operated Calcium Entry"
MAJOR PROFESSOR: Troy Stevens, Ph.D.
DEPARTMENT: Pharmacology - Center for Lung Biology
CURRENT POSITION: Postdoctoral Fellow, Center for Lung Biology, College of Medicine, University of South Alabama, Mobile, Alabama
Katherine Lesley Gross
DISSERTATION TITLE: "The Role of FK506-Binding Proteins in Intracellular Signal Transduction Pathways"
MAJOR PROFESSOR: Jonathan G. Scammell, Ph.D.
DEPARTMENT: Pharmacology
CURRENT POSITION: Postdoctoral Fellow, National Institute of Environmental Health Sciences, Laboratory of Signal Transduction, Research Triangle Park, North Carolina

Renee Ho
DISSERTATION TITLE: "Effects of Targeting Yeast Major Apurinic/Apyrimidinic Endonuclease APN1 to Mitochondria in a Mammalian Neuronal Cell Line"
MAJOR PROFESSOR: Glenn L. Wilson, Ph.D.
DEPARTMENT: Cell Biology and Neuroscience
CURRENT POSITION: Postdoctoral Fellow, Department of Orthopaedics, College of Medicine, University of South Alabama, Mobile, Alabama

Karla McInnis
DISSERTATION TITLE: "Regulation of ELR α-Chemokines Within the Human Cornea"
MAJOR PROFESSOR: John E. Oakes, Ph.D.
DEPARTMENT: Microbiology and Immunology
CURRENT POSITION: Postdoctoral Fellow, LSU Health Science Center, Department of Microbiology & Immunology, LSU, Shreveport, Louisiana

Li Ni
DISSERTATION TITLE: "Kinetic and Mechanistic Study of Protein Phosphatase 5 by Site-Directed Mutagenesis"
MAJOR PROFESSOR: Richard E. Honkanen, Ph.D.
DEPARTMENT: Biochemistry and Molecular Biology
CURRENT POSITION: Postdoctoral Fellow; Center for Cell Signaling, College of Medicine, University of Virginia, Charlottesville, Virginia

Sarah Louise Sayner
DISSERTATION TITLE: "The Pseudomonas aeruginosa Adenylyl Cyclase Toxin ExoY Disrupts the Pulmonary Endothelial Barrier"
MAJOR PROFESSOR: Troy Stevens, Ph.D.
DEPARTMENT: Pharmacology - Center for Lung Biology
CURRENT POSITION: Postdoctoral Fellow, Center for Lung Biology, College of Medicine, University of South Alabama, Mobile, Alabama
| Mark Raymond Swingle                          | “Structure of Protein Phosphatase 5” |
| MAJOR PROFESSOR:                             | Richard E. Honkanen, Ph.D.          |
| DEPARTMENT:                                  | Biochemistry and Molecular Biology  |
| CURRENT POSITION:                            | Postdoctoral Fellow, Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama, Mobile, Alabama |

| Sonya Perry Urnowey                          | “Modulation of Host Cell Survival and Apoptotic Mediators in Human Gingival Fibroblast Cells Infected with the Periodontal Pathogen, Porphyromonas gingivalis” |
| MAJOR PROFESSOR:                             | Sailen Barik, Ph.D.                 |
| DEPARTMENT:                                  | Biochemistry and Molecular Biology  |
| CURRENT POSITION:                            | Biological Scientist, Bioterrorism Coordinator, Florida Department of Health, University of Florida, Bureau of Laboratories, Pensacola, Florida |

To date, 149 students have received a Ph.D. degree in Basic Medical Sciences. The breakdown of degrees awarded by Department/Program is as follows:

<table>
<thead>
<tr>
<th>Department/Program</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry/Molecular Biology</td>
<td>29</td>
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<tr>
<td>Microbiology/Immunology</td>
<td>36</td>
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<tr>
<td>Pharmacology</td>
<td>36</td>
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<tr>
<td>Physiology</td>
<td>22</td>
</tr>
<tr>
<td>Cell Biology/Neuroscience</td>
<td>26</td>
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</table>
Summary of Extramural Support

Funding for the 2005-2006 academic year includes $29,247,635 and $2,657,027 in awards administered through the Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

Extramural Funds
Totals for Recent Years

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<td>$14,272,462</td>
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<tr>
<td>1996</td>
<td>16,507,457</td>
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<tr>
<td>1997</td>
<td>14,981,699</td>
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<tr>
<td>1998</td>
<td>18,388,972</td>
</tr>
<tr>
<td>1999</td>
<td>19,108,225</td>
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<td>2000</td>
<td>20,431,119</td>
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<tr>
<td>2001</td>
<td>20,723,188</td>
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<tr>
<td>2002</td>
<td>20,734,491</td>
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<tr>
<td>2003</td>
<td>23,244,111</td>
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<td>2004</td>
<td>26,935,930</td>
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<td>2005</td>
<td>40,065,869</td>
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<tr>
<td>2006</td>
<td>31,904,662</td>
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</table>

College of Medicine Total Annual Extramural Funding From all Sources

[Graph]

Fiscal Year
<table>
<thead>
<tr>
<th>FY</th>
<th>Funding</th>
<th>Project Title</th>
<th>Agency</th>
<th>Investigator</th>
<th>Principal Investigator</th>
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</thead>
<tbody>
<tr>
<td>2000</td>
<td>$2,000</td>
<td>Cytochrome c MAX Annual Meeting</td>
<td>NIH</td>
<td>Judith Burnham</td>
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<tr>
<td>2006</td>
<td>$573,426</td>
<td>Mechanisms of Cancer Promotion and Carcinogenesis</td>
<td>NIH 3 ROI CA06075013S2</td>
<td>Richard Honkonen</td>
<td></td>
</tr>
<tr>
<td>2006</td>
<td>$308,930</td>
<td>Mechanisms of Cancer Promotion and Carcinogenesis</td>
<td>NIH 5 ROI CA06075013S1</td>
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<td>Sanal Bakir</td>
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<td>2006</td>
<td>$249,496</td>
<td>Mechanisms of RNA Virus-Host Interaction</td>
<td>NIH 5 ROI AI05926702</td>
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**Biomedical Library**

**Biochemistry and Molecular Biology**

**Extramural Funding**

(October 1, 2005 - September 30, 2006)
### CELL BIOLOGY AND NEUROSCIENCE

<table>
<thead>
<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>AGENCY</th>
<th>PROJECT TITLE</th>
<th>FISCAL YEAR FUNDING</th>
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</thead>
<tbody>
<tr>
<td>Mikhail Alexeyev</td>
<td>NIH 2 PO1 HL06629906</td>
<td>Program Project Grant Gene Delivery Core 3**</td>
<td>$ 167,556</td>
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<tr>
<td>Susan LeDoux</td>
<td>NIH 5 RO1 NS04720803</td>
<td>Oxidative Stress in Neurons: Role of Mitochondrial DNA</td>
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<tr>
<td></td>
<td>5 RO3 TW00704403</td>
<td>Oxidative Stress in Neurons: Role of Aminochrome</td>
<td>31,248</td>
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<td></td>
<td>NIH 2 RO1 ES00586513</td>
<td>Repair of DNA Damage Induced By Environmental Agents</td>
<td>340,195</td>
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<tr>
<td>Solomon Ofori-Acquah</td>
<td>NIH 5 RO1 HL07776903</td>
<td>Role of CD 166/ALCAM in Lung Endothelial Barrier Function</td>
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<td><strong>Total</strong></td>
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<td><strong>$ 1,120,859</strong></td>
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**Center for Lung Biology Program Project**

### CENTER FOR HEALTHY COMMUNITIES

<table>
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<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>AGENCY</th>
<th>PROJECT TITLE</th>
<th>FISCAL YEAR FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Errol Crook</td>
<td>NIH 5 R24 MD00109403</td>
<td>Broad-Based Collaborative to Address Disparities</td>
<td>$ 401,500</td>
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<tr>
<td>Martha Arrieta</td>
<td>NIH US MP02001034</td>
<td>A Network Approach Facilitating Continuity of Care for Patients with Chronic Diseases in the Aftermath of a Natural Disaster</td>
<td>50,000</td>
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<tr>
<td><strong>Total</strong></td>
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<td><strong>$ 451,500</strong></td>
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<tr>
<td>Fiscal Year</td>
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<tr>
<td>------------</td>
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</tr>
<tr>
<td>2009</td>
<td>Alabama Incident Management System - Help Center</td>
<td>HRSA C 601144107</td>
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<tr>
<td>2010</td>
<td>Manual Aid Agreement</td>
<td>HRSA C 60114108</td>
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<tr>
<td>2011</td>
<td>Volunteer Symposium</td>
<td>HRSA C 60114113</td>
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<tr>
<td>2012</td>
<td>Pandemic Influenza Summit</td>
<td>HRSA 06060417</td>
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<tr>
<td>2013</td>
<td>ADPH Satellite Downlink</td>
<td>CDC C60114211</td>
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<tr>
<td>2014</td>
<td>Alabama Incident Management System - EMIS Module</td>
<td>HRSA C 60114173</td>
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<td>2015</td>
<td>Alabama Incident Management System - Nursing Home</td>
<td>HRSA C 60114442</td>
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<tr>
<td>2016</td>
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<td>2017</td>
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### COM ADMINISTRATION

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<th>PROJECT TITLE</th>
<th>FISCAL YEAR FUNDING</th>
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<tbody>
<tr>
<td>Robert Lausch</td>
<td>International Lion’s Foundation</td>
<td>Lion’s/USA Eye Research</td>
<td>$ 101,767</td>
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<tr>
<td>Mary Townsley</td>
<td>2 R25 NS03980506A1</td>
<td>Training for Academic Skills Development</td>
<td>2,000</td>
</tr>
<tr>
<td>Samuel Strada</td>
<td>SE AHA 0515073B</td>
<td>Advanced Cardiovascular Research for Medical Students</td>
<td>10,800</td>
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<tr>
<td></td>
<td>Novartis</td>
<td>Medical Student Summer Research Program</td>
<td>4,000</td>
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<td><strong>Total</strong></td>
<td><strong>$ 118,567</strong></td>
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### COMPARATIVE MEDICINE

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<th>PROJECT TITLE</th>
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</thead>
<tbody>
<tr>
<td>Christian Abbe</td>
<td>NIH S R24 RR020052</td>
<td>Owl Monkey Breeding and Research Resource (R24)</td>
<td>$ 613,708</td>
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<tr>
<td></td>
<td>NIH 2 P40 RR0125426</td>
<td>A Squirrel Monkey Breeding and Research Resource</td>
<td>690,354</td>
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<td></td>
<td>CDC 200200301848</td>
<td>Breeding Colony of Squirrel Monkeys-Malaria Study</td>
<td>74,976</td>
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<tr>
<td></td>
<td>Baxter HealthCare Corp</td>
<td>Experimental Creutzfeldt-Jakob Disease in the Squirrel Monkey</td>
<td>88,499</td>
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<td>Baxter Fenwall</td>
<td>Schnieders CJD 06 Research Project</td>
<td>33,000</td>
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<td>COMPARATIVE MEDICINE (cont'd)</td>
<td>PRINCIPAL INVESTIGATOR</td>
<td>AGENTY</td>
<td>PROJECT TITLE</td>
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<tr>
<td>COMPREHENSIVE SICKLE CELL CENTER</td>
<td>Jonathan Scannell</td>
<td>NIH 5 R24 RR01320008</td>
<td>An Animal Model of Glucocorticoid Resistance</td>
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<tr>
<td></td>
<td>Michele Schuler</td>
<td>NIH 1 KO1 RR02197101A2</td>
<td>Stem Cell Derivation in Two Neotropical Primate Species</td>
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<td>Total</td>
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<table>
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<tr>
<th>PROJECT TITLE</th>
<th>FISCAL YEAR</th>
<th>FISCAL YEAR</th>
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<tbody>
<tr>
<td></td>
<td>$43,219</td>
<td>$10,089</td>
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<tr>
<td>Total</td>
<td>$53,308</td>
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</table>

An Open-Label Extension Study Evaluating the Long-Term Safety of ICM-A17043 with or without Hydroxyurea Therapy in Subjects with Sickle Cell Disease

An Open-Label Extension Study Evaluating the Long-Term Safety of ICM-A17043 with or without Hydroxyurea Therapy in Subjects with Sickle Cell Disease
## EMERGENCY MEDICINE

<table>
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<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>AGENCY</th>
<th>PROJECT TITLE</th>
<th>FISCAL YEAR FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>Novartis</td>
<td>A Prospective, Multinational, Multicenter, Double-Blind, Randomized, Active-Controlled Trial to Compare the Effects of Lotrel to Benazepril and Hydrochlorothiazide Combined on the Reduction of Cardiovascular Morbidity and Mortality in Patients with High Risk Hypertension</td>
<td>$3,105</td>
</tr>
<tr>
<td>AstraZeneca</td>
<td></td>
<td>A Twenty-four Week Randomized, Double-Blind, Multicenter, Active Controlled Study to Evaluate the Efficacy, Safety and Tolerability of Tesaglitazar Therapy When Administered to Patients with Type 2 Diabetes</td>
<td>$8,948</td>
</tr>
<tr>
<td>Sankyo Pharma, Inc.</td>
<td></td>
<td>A Randomized, Double-Blind, Placebo-Controlled Factorial Study Evaluating the Efficacy and Safety of Co-Administration of Olmesartan Medosomil Plus Amlodipine Compared to Monotherapy in Patients with Mild to Severe Hypertension</td>
<td>$27,077</td>
</tr>
<tr>
<td>Boehringer Ingelheim</td>
<td></td>
<td>A Randomized, Double-Blind, Placebo-Controlled, Forced-Titration, Phase IV Study Comparing Telmisartan 80mg + Hydrochlorothiazide 25mg versus Valsartan 160mg + Hydrochlorothiazide 25mg taken Orally of 8 Weeks in Patients with Stage 1 or Stage 2 Hypertension</td>
<td>$23,064</td>
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<td>Cholesterol and Elevated Levels of C-Reactive Protein</td>
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<td>Events Among Subjects with Low Levels of LDL - 20% in the Primary Prevention of Cardiovascular Disease Phase III Study of Rosuvastatin (Crestor) A Randomized, Double-Blind, Placebo-Controlled</td>
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<tr>
<td>Asthenia</td>
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<td>and Ischemic Stabilization Management and Avoidance</td>
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<td>Clinidrogel for High Arteriosclerotic Risk and Hypertension</td>
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<td>Therapy vs Initial Therapy in Patients with Severe</td>
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<td>of Valstazin/HCTZ Compared to Valstazin Mento-Parallel Group Study to Evaluate the Combination</td>
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<td>A 6 Week, Multicenter, Randomized, Double-Blind,</td>
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<td>Nothis</td>
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<td>Patients with Stage 2 Hypertension</td>
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<td>Combination with a Calcium Channel Blocker in Combination with an ACE Inhibitor and Losartan</td>
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<td>A Study on the Effectiveness and Safety of Olmesartan</td>
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<td>Larry Henderson</td>
<td>HRSA 1 D56 HP0522602</td>
<td>Strengthening Professionalism in Predoctoral Training</td>
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<td>Allen Perkins</td>
<td>AFPRHB</td>
<td>A Student Curriculum in Family Medicine</td>
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<td>AFPRHB</td>
<td>Resident Curriculum in Rural Family Medicine</td>
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<td>5 D58 HP051740200</td>
<td>Extending the Reach of Family Medicine Training</td>
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<td>NIH 5 ROI HL072739</td>
<td>National Institutes of Health</td>
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<td>Lymphoid Pharmaceuticals</td>
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<td>NABI Biopharmaceuticals</td>
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<td>Novartis</td>
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<td>Michael Culpepper, Specialist Bio, Ltd</td>
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**Funding:**

- **Fiscal Year:** $32,494
- **Fiscal Year:** 250,000
- **Fiscal Year:** 4,885

**Project Title:**

- Cell Cycle Regulation of Pulmonary Vascular Remodeling
- Open Label Extension Study Evaluating the Long Term Safety, Tolerability, and Efficacy of an Iron Chelator
- A Prospective Multi-center, Randomized, Double-blind, Parallel Group Study to Evaluate the Effects of Aihibiton on Proteinuria When Added to Standardized Controlled, Parallel Group Study to Evaluate the Effects of Hemodialysis Via an Arteriovenous Fistula
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<th>Principal Investigator</th>
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<th>Fiscal Year Funding</th>
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<tr>
<td>Johnson Haynes, Jr.</td>
<td>NIH CSCC CTC</td>
<td>Arginine Supplementation in SC Anemia: Physiological &amp; Prophylactic Effects</td>
<td>$ 68,500</td>
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<td>Jorge Herrera</td>
<td>Schering Corporation</td>
<td>Herrera Chronic Hepatitis Research</td>
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<td>Roche Pharmaceuticals</td>
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<td>A Randomized, Open-label, Multicenter, Efficacy and Safety Study Examining the Effects of Duration of Treatment and of a High Induction Dose of PEGASYS in Combination with Daily COPEGUS in Patients with Chronic Hepatitis C Who Did Not Respond to Previous Peginterferon alfa-2b/Ribavirin Combination Therapy</td>
<td>32,209</td>
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<td>Hoffman-LaRoche, Inc.</td>
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<td>Randomized, Multicenter, Open Label, Phase IV Study Evaluating the Efficacy and Safety of 16-Week Treatment with Pegasys in Combination with Copegus in Inteferon-naïve Patients with Chronic Hepatitis C Genotype 2 or 3 Virus Infection</td>
<td>6,602</td>
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<td>Schering Plough Research Institute</td>
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<td>Comparison of PEG-Intron 1.5 ug/kg/wk Plus REBETOL versus PEG Intron 1 ug/kg/wk plus REBETOL versus PEGASYS 180 ug/kg/wk plus COPEGUS in Previously Untreated Adult Subjects with Chronic Hepatitis C Infected with Genotype 1</td>
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<td>Braintree</td>
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<td>A Study of the Effects of Miralax Laxative in Patients Reporting Gas and Cramping</td>
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<td>A Pilot Efficiency Evaluation of an Experimental Bowel Cleaning Preparation (BL-1800) in Adult Patients Undergoing Colonoscopy</td>
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### MEDICAL GENETICS

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<tr>
<td>Wladimir Wertelecki</td>
<td>ADMH/MR G6932638</td>
<td>Genetics and Mental Health Program</td>
<td>$ 137,268</td>
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### MICROBIOLOGY

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<tr>
<td>Jonathon Audia</td>
<td>NIH 1 R21 AI06429501A1</td>
<td>Elucidating the Rickettsia Prowazekii Enyz/OMPR Regulon</td>
<td>$ 207,500</td>
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<td>NIH 7 RO1 CA 08112508</td>
<td>IL-17 and Hematopoieses</td>
<td>258,773</td>
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<td>NIH 3 RO1 CA08112508S1</td>
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<td>Paul Schwarzenberger</td>
<td>NIH 2 R01 AI01503528</td>
<td>Permeability of the Epidemic Typhus Rickettsia</td>
<td>552,769</td>
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<td>Herbert Winkler</td>
<td>NIH 4 R37 AI02038423</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
<td>384,630</td>
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<td>NIH 5 RO 1AI05591304</td>
<td>Global Analysis of the Rickettsia Prowazekii Proteome</td>
<td>356,423</td>
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<td>David Wood</td>
<td>NIH 5 U54 AI0515704</td>
<td>Vaccine for Rocky Mountain Spotted Fever</td>
<td>108,665</td>
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<td>18.870</td>
<td>A Multi-Center, Open-Label, Long-Term, Follow-up Study of the Safety and Efficacy of Levetiracetam in Children with Partial Onset Seizures</td>
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<td>6.397</td>
<td>A Long-Term, Open-Label Safety Study of Orlitine in Adolescents who Failed 12.5 mg/24 hr of Adjunctive Medication</td>
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<td>15.033</td>
<td>An Open-Label Extension Trial to Determine Safety and Efficacy of Orlitine in Patients with Partial Seizures who Failed 333.33 mg/day of Adjunctive Therapy in Subjects with Partial Seizures</td>
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<td>15.708</td>
<td>A Double-Bind, Placebo-Controlled, Dose-Ranging Study of Orlitine as Adjunctive Therapy in Subjects with Partial Seizures and Safety of 977 (400 and 600 mg/day) as Adjunctive Therapy in Subjects with Partial Seizures</td>
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| 14.927      | A Multi-Center, Double-Bind, Randomized, Placebo-

**Agency**
- UCB Pharma
- Orlitine
- Johnson & Johnson
- Schwarz Biosciences

**Principal Investigator**
- Paul McManus
- Ian Lopez
- William Hamilton

**Funding**
- Neurology
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<th>PRINCIPAL INVESTIGATOR</th>
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<tr>
<td>Paul Maertens</td>
<td>UCB Pharma</td>
<td>A Double-Blind, Randomized, Multicenter, Placebo-Controlled, In-Patient, Maximum 34 Day Study of Levetiracetam Oral Solution (20-50mg/kg/day) as Adjunctive Treatment of Refractory Partial Onset Seizures in Pediatric Epileptic Subjects Ranging in Age from 1 Month to Less than 4 Years of Age</td>
<td>$ 24,176</td>
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<td>GlaxoSmithKline</td>
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<td>An Open-Label, Uncontrolled, Long-Term Study to Assess the Safety of LAMICTAL in Pediatric Subjects Previously Enrolled in Protocol LAM2006 and in LAMICTAL-naïve Subjects (1-24 months of age) LAM2007</td>
<td>5,733</td>
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<tr>
<td>John Rothrock</td>
<td>Abbott Laboratories</td>
<td>The Safety and Efficacy of Divalproex Sodium Extended-Release Tablets in Migraine Prophylaxis: A Double-Blind, Placebo-Controlled Study in Adolescents</td>
<td>19,756</td>
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<td>Ortho-McNeil</td>
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<td>A Comparison of the Efficacy and Safety of Topiramate versus Placebo for the Prophylaxis of Chronic Migraine</td>
<td>25,587</td>
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<td>Ortho-McNeil</td>
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<td>An Open-Label Study of the Safety and Efficacy of Topiramate for the Prophylaxis of Chronic Migraine: Extension Study to CAPSSS-276</td>
<td>4,663</td>
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<td>Abbott Laboratories</td>
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<td>The Safety of Divalproex Sodium Extended-Release Tablets in Migraine Prophylaxis: An Open-Label Extension Study in Adolescents</td>
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<tr>
<td>John Rothrock</td>
<td>Merck &amp; Co.</td>
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<td>Pozen</td>
<td>Allergan</td>
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<tr>
<td>A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Parallel-Group Study to Evaluate the Efficacy and Safety of E2007 in Migraine Prophylaxis</td>
<td>$72,508</td>
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<tr>
<td>A Multi-Center, Randomized, Double-Blind, Parallel-Group Study to Evaluate the Efficacy and Tolerability of Rizantriphan 1 mg Tablet for the Treatment of Menstrual Migraine</td>
<td>4,020</td>
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<td>A Randomized, Double-Blind, Single-Dose, Placebo-Controlled Evaluation of Intravenous Lomoxim in the Acute Treatment of Migraine</td>
<td>17,700</td>
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<td>A Multi-Center Study Evaluating the Efficacy and Safety of Botulinum Toxin A in Patients with Multiple Headaches per Month</td>
<td>26,060</td>
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<td>More Headache Days in Migraine Patients with 15 Headache Days per Month, Randomized, Placebo-Controlled, Parallel Group Phase Followed by a 32-Week Open-Label Extension Phase</td>
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NEUROLOGY (cont'd)

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<td>Richard Zweifler</td>
<td>Boehringer Ingelheim</td>
<td>Pro-FESS-Prevention Regimen for Effectively Avoiding Second Strokes: A Double-Blind, Active and Placebo Controlled Study of Aggrenox Versus Clopidogrel + Aspirin, with and without Micardis</td>
<td>$ 17,152</td>
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<td>Medivance, Inc.</td>
<td>Mild Induced Hypothermia Using the Artic Sun and a Meperidine Infusion Based Pharmacologic Protocol</td>
<td>$ 2,500</td>
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<td>Novo-Nordisk</td>
<td>Randomized, Double-Blind, Placebo-Controlled, Multi-Center, Parallel Groups Confirmatory Efficacy and Safety Trial of Activated Recombinant Factor VII in Acute Intracerebral Hemorrhage</td>
<td>$ 10,511</td>
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<td>Pfizer</td>
<td>A Double-Blind, Randomized, Placebo-Controlled Study of Atorvastatin as Prevention of Cerebrovascular Event in Patients with a Previous Transient Ischemic Attack (TIA) or Stroke</td>
<td>$ 51,650</td>
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<td>NIH 2 U01 NS03852905</td>
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<td>Secondary Prevention of Small Subcortical Strokes (SPS3)</td>
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<td>NIH 2 RO1 NS03998706</td>
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<td>Siblings with Ischemic Stroke Study (Swiss)</td>
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<td>NIH 1 RO1 NS 04487601A2</td>
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<td>Insulin Resistance Intervention After Stroke Trial (IRIS)</td>
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- **Total**
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<tr>
<th>2.413</th>
<th>A Multicenter, Double-Blind Study to Determine Efficacy of ESTRATEST Tablets in Relieving Menopausal Symptoms in Menopausal Women</th>
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<tr>
<td>S.01</td>
<td>A Multicenter, Double-Blind Study to Determine the Efficacy of ESTRATEST H.S. Tablets in Relieving Menopausal Symptoms in Menopausal Women</td>
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<td>4.293</td>
<td>Teriparatide (TDF/PA formulation) Injection to Treat Osteoporosis (L733334)</td>
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<td>30.07</td>
<td>A Phase III, Randomized, Double-Blind, Placebo-Controlled Multi-center Study to Assess the Efficacy, Safety, and Tolerability of Produreve 8% Progesterone Gel in Preventing Preterm Delivery in Pregnant Women</td>
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**Principal Investigator:** Kathleen Potter

**Agency:** Obstertrics and Gynecology
## ORTHOPAEDIC SURGERY

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<tr>
<td>Albert Pearsall</td>
<td>Synthes</td>
<td>Synthes Biomechanical Engineer</td>
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<td>Zimmer</td>
<td>A Biomechanical Analysis of Internal Fixation of Type VI Schatzker Tibial Plateau Fractures</td>
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<td>Zimmer</td>
<td>Zimmer Sponsored Research</td>
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<td>OREF 06021</td>
<td>Synthes</td>
<td>The Involvement of MTDNA Damage in Chondrocyte Dysfunction &amp; Apoptosis Following Nitric Oxide Exposure</td>
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232
Premature Infants (birth weight 500-1250g)
Determine Antibody Concentrations of Vorozole in
Open-Label, Multi-Center Clinical Trial to
Inhibitex

A Phase I, Open-Label, Multi-Center Clinical Trial to
Vorozole Versus Placebo for the Prevention of
Clinical Trial Comparing the Safety and Efficacy of
Premature Infant Septicemia in Premature Infants

A Phase II, Randomized, Double-Bind, Multicenter
Vorozole Versus Placebo for the Prevention of
Premature Infant Septicemia in Premature Infants

A Phase II, Randomized, Double-Bind, Multicenter
Premature Infant Septicemia in Premature Infants

A Phase II, Randomized, Double-Bind, Multicenter

Synergistic GERD
Children 1 to 4 Years Old With Endoscopically Proven
Pantoprazole Sodium Elixir-Encoded Sprinkles in
Children One of Multiple Doses of
of the Safety, Tolerability, Pharmacodynamics and
A Multicenter, Randomized, Double-Bind Study
Wyeth Pharmaceuticals

A Phase II, Multicenter, Parallel-Group Study

Karen Crissinger

$4.124

FUNDING
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AGENCY
INVESTIGATOR
PRINCIPAL INVESTIGATOR
FISCAL YEAR
PEDIATRICS
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<td>Mary Mancao</td>
<td>NIH 5 U01 AI04102509</td>
<td>Southeast Pediatrics Aids Clinical Trials Unit</td>
<td>$ 94,431</td>
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<td>HRSA 5 H12 HA2302706</td>
<td>USA Family Specialty Clinic</td>
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<td>Lawrence Sindel</td>
<td>Cystic Fibrosis FDN C00206</td>
<td>Cystic Fibrosis Center Program</td>
<td>28,045</td>
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<td>Felicia Wilson</td>
<td>Genzyme</td>
<td>A Multicenter, Multinational, Open-label Extension Study of the Safety and Efficacy of Recombinant Human Alpha-L-Iduronidase in Patients with Mucopolysaccharidosis I (MPS-I)</td>
<td>6,387</td>
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<td>Polymorphins and Human Pulmonary Artery Hypertension</td>
<td>CRMP 9</td>
<td>Jack Olson</td>
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<td>246,928</td>
<td>Program Project Gram Cell Culture/Microscopy Core 2**</td>
<td>NIH 2 P01 HL066299</td>
<td>Judy King</td>
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<td>77,000</td>
<td>Lung Endothelial ALCAM as a Determinant for Metastasis</td>
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<td>250,921</td>
<td>Shielded Receptor Regulation by TPR Protein</td>
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<td>Michael Chikere</td>
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### PHARMACOLOGY (cont’d)

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<td>Thomas Rich</td>
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<td>Wiltz Wagner</td>
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Rabbit Injured Model
Inhibition of Ischemic Injury by A2B/AT1 Agonist in Elastase
Inhibition of Ischemic Injury by Inhibition of Neutrophil
7.750
11.250

Bayer Healthcare

Physical Factors and Coronary Flow
The Prevention of Ischemia and Repetition by MRI-1024
249.496
8.400

James Downey
Molecular Therapeutics

Catechol and Adenosine in Myocardial Reconditioning
249.496

Michael Cohen

Airway Submucosal Glands and Cystic Fibrosis Disease
280.566

Stephen Ballard

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SE AHA 0665169B
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PHARMACOLOGY (contd)
PHYSIOLOGY (cont’d)

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<td>James Downey</td>
<td>Bayer Healthcare</td>
<td>Inhibition of Ischemic Injury by A2b Agonist BAY 60-6583 $</td>
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<td>In a Rabbit Infarct Model Administered as a Short Infusion After Occlusion</td>
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<td>Thomas Lincoln</td>
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<td>Control of Vascular Smooth Muscle Cell Phenotype by CGMP</td>
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<td>Mark Taylor</td>
<td>NATL AHA 0330019N</td>
<td>Coronary Artery Regulation by Small – Conductance Ca^{2+}-Activated K^{+} (SK3) Channels</td>
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<td>Mary Townsley</td>
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<td>Training in Cell Signaling and Lung Pathobiology</td>
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<td>TRPV4 in Regulation of Lung Endothelial Permeability</td>
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<td>David Weber</td>
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<td>Reactive Oxygen Species Regulation of Vascular Smooth Muscle Migration</td>
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<td>Jian Yang</td>
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<td>The Roles of AMPK in Lipid Metabolism in Living Animals</td>
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Total $2,055,402

**Center for Lung Biology Program Project
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<th>SURGERY</th>
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<tr>
<td>A Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of Epoetin Alfa in Critically Ill Subjects</td>
<td>$ 350,000</td>
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<td>A Multicenter, Double-Blind, Randomized, Phase 3 Study to Compare the Safety and Efficacy of Intravenous Doripenem with that of Meropenem in Complicated Intra-abdominal Infections</td>
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<td>A Phase 3, Multicenter, Randomized, Evaluation Committee-Blinded Study to Assess the Efficacy of Topical Administration of Omiganal 1% Gel in Preventing Local Catheter Site Infections and Catheter Colonization in Patients Undergoing Central Venous Catheterization</td>
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<tr>
<td>Richard Gonzalez</td>
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<td>Moustafa Hassan</td>
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<td>Peninsula Pharmaceuticals</td>
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**SURGERY (cont'd)**

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<tr>
<td>Arnold Luterman</td>
<td>Baxter Healthcare</td>
<td>A Study to Evaluate the Safety and Efficacy of Fibrin Sealant with 4IU/ML Thrombin Vapor Heated, Solvent/Detergent Treated (FS 4IU VH S/D) to Adhere Tissues and Improve Wound Healing</td>
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<td>Cubist Pharmaceuticals</td>
<td>Cubicin for Complicated Post-Surgical Wound Infections</td>
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<td>Advanced Biohealing</td>
<td>Safety and Efficacy of Celaderm for the Healing of Partial-Thickness Thermal Burns</td>
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**USA HOSPITALS**

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<td>USA CRI Construction and Equipping of Facilities</td>
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<td>Novel Method for Isolating Actively Translated MRNAs</td>
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<td>Gene Expression Analysis of Apislan Neural Network</td>
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<td>Literacy, Culture &amp; Pap Testing Adherence Among Vietnamese-American Women</td>
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<tr>
<td>NIH</td>
<td>A Multicenter, Randomized, Double-Blind, Placebo-Controlled Study of Darbepoetin Alfa for the Treatment of Anemia of Cancer</td>
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<td>NIH</td>
<td>A Randomized, Phase II, Study of TNFerade Biologic with 5-FU and Radiation Therapy of Locally Advanced Pancreatic Cancer</td>
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<td>NIH</td>
<td>A Randomized Open-Label Study of 400mg Versus 800mg Gleevec-Glivec in Patients with Newly Diagnosed, Previously Untreated Chronic Myeloid Leukemia in Chronic Phase Using Molecular Endpoints</td>
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<td>NIH</td>
<td>A Randomized Phase 2 Trial of Paclitaxel, Carboplatin and Bevacizumab with or without PF 3512676 as First-Line Treatment of Patients with Advanced Nonsquamous Non-Small Cell Lung Cancer</td>
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<td>Michael Boyd</td>
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MITCHELL CANCER INSTITUTE (cont’d)

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<td>Lewis Pannell</td>
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<td>Raymond Wynn</td>
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