ANNUAL REPORT

UNIVERSITY OF SOUTH ALABAMA

COLLEGE OF MEDICINE

October 1, 2004 through September 30, 2005
FOREWORD

The Annual Report of the USA College of Medicine highlights the achievements of our faculty and staff in the areas of teaching, research, and service. The year was noteworthy for significant change and continued growth in the clinical, training, and research programs during the 2004-2005 academic year. Many members of our faculty have assumed leadership positions at the national level in professional organizations. Drs. Errol Crook and R. Allen Perkins have accepted chairmanships of the Departments of Internal Medicine and Family Medicine respectively. Dr. Jonathan Scammell was appointed as interim chair of the Department of Comparative Medicine following the retirement of Dr. Christian R. Abbe. Administrative changes in the College of Medicine included the appointments of Drs. Fred Meyer as Associate Dean for Faculty Practice, Arnold Luterman, Assistant Dean for Graduate Medical Education, Susan LeDoux, Assistant Dean for Curriculum, Mary Townsley, Assistant Dean for Faculty Affairs, and Ronald Balczon, Director of the Graduate Program in Basic Medical Sciences. Goals for the 2005-06 year include the recruitment of new chairs for the Department of Microbiology and Immunology and the Department of Biochemistry and Molecular Biology; the continued development of the USA Cancer Research Institute and the implementation of an alliance between the University of South Alabama and the Infirmary Health Systems.

The College of Medicine wishes to dedicate this annual report to Dr. Robert A. Kreisberg in recognition of his many years of service and substantial contributions as the founding chair of the Department of Internal Medicine, and former dean and vice president for medical affairs.

Samuel J. Strada, Ph.D.
Interim Dean,
University of South Alabama
College of Medicine
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## V. Report from Medical Student Summer Research Program

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

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2004-2005
Summary of Scholarly Activities
Department of Biochemistry & Molecular Biology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


Barik S. When proteome meets genome: the alpha helix and the beta strand of proteins are eschewed by mRNA splice junctions and may define the minimal indivisible modules of protein architecture. J Biosci 2004; 29:261-73.


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Barik S. RNA interference analysis of pneumoviral nonstructural proteins: Role in the suppression of interferon response and apoptosis. Paper presented at: University of Queensland, Princess Alexandria Hospital; 2004 Oct 1; Brisbane, Australia.


Honkanen RE. Ser/thr phosphatase 5, a negative regulator of stress-induced signaling cascades that aids tumor growth. Paper presented at: Emory University; 2005 Jan 20; Atlanta, GA.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Nathan N. Aronson served as a member of the Nomination Committee of the American Society for Biochemistry and Molecular Biology.

Dr. Sailen Barik serves on the Study Section of the American Heart Association, SE Affiliate and the NIAID/NIH Study Section. He also was the keynote speaker for the Australian Society of Microbiology in Sydney Australia. Dr. Barik signed a licensing agreement with a leading RNAi biotechnology company, Alnylam.

Dr. Richard Honkanen serves on the Peer Review Committee on Tumor Biochemistry and Endocrinology of the American Cancer Society.
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

Biochemistry Graduate students achieved excellent progress in the 2004-2005 academic year. Guofei Zhou (Dr. Honkanen's laboratory) obtained his Ph.D. and moved to a postdoctoral position in Pulmonary and Critical Care Medicine, Feinberg School of Medicine, at Northwestern University. Brian Adams and Lauren Amable taught in the summer BEAR program. Lauren Amable presented her research on the design and construction of a protein phosphatase 5-deficient mouse at the Europosphatases Conference in Cambridge, England. One new graduate student, Joel Andrews, joined the Department (Dr. Barik) and was awarded a predoctoral fellowship in the NHLBI-funded Training Program in Cell Signaling and Lung Pathobiology.

Richard Keithley, an undergraduate student from the Virginia Commonwealth University worked in Dr. Barik’s laboratory in the NSF-REU program on a research project titled “Is Vioxx a treatment option for pediatric RSV infection?”. Dr. Vira Bitko received in San Francisco, CA a travel award from American Society for Virology to attend the Joint Meeting of the 3 Divisions of the International Union of Microbiological Societies.

Three faculty members of the Biochemistry Department are active participants in the Alabama EPSCoR (Experimental Program to Stimulate Competitive Research) Program sponsored by the National Science Foundation. Drs. Aronson, Barik, and Honkanen 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 project was refunded by NSF for three more years.

In regards to teaching, this summer the Department offered a make-up course in medical biochemistry. Five students participated in the course. Students came from Alabama, Louisiana, Mississippi and Tennessee. Dr. Lane was voted Best Basic Science teacher by the 2005 graduating medical school class. The Department was recognized with an Excellence Award from the students in the second year BEAR program.
Dr. Aronson organized and implemented a research workshop on molecular visualization of proteins. This mini-course was taught by two outside guests, Dr. Robert Bateman, chair of Chemistry and Biochemistry at the University of Southern Mississippi and Ian Davis, a senior graduate student from the Department of Biochemistry at Duke University. Mr. Davis is a Ph.D. student in the laboratory of Jane and David Richardson and he is the author of some of the more recent software used for molecular visualization. Nine USA faculty and students attended, including faculty from Chemistry, Biochemistry, Pharmacology, and the Cancer Research Institute. The Department celebrated the 90th birthday of Dr. Ned Flodin who has been an adjunct faculty member for over 25 years. He comes to work several times each week and recently submitted a paper to Evolutionary Anthropology. The theoretical article is about the role of the genioglossus muscle of the human tongue and the role it plays in the unique mechanics and origin of speech in humans.
2004-2005
Summary of Scholarly Activities
Department of Cell Biology & Neuroscience

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


LeDoux SP. Mitochondrial DNA; a critical target for genotoxic agents; AACR 96th Annual Meeting Education Book; 2005.


III. BOOKS PUBLISHED


IV. PRESENTATIONS

Alexeyev MF. Gene therapy for mitochondrial disorders. Paper presented at University of Greifswald, Department of Internal Medicine; 2005 Aug 18; Greifswald, Germany.

Fields P, Fields M. Potential binding sites for Relaxin in pregnant rabbits. Paper presented at: Relaxin and Related Peptides, 4th International Conference; 2005 Sep 7; Jackson Hole, WY.

Fields P. Is relaxin a calcium transporter? Paper presented at: Presented at: Relaxin and Related Peptides, 4th International Conference; 2005 Sep 8; Jackson Hole, WY.

LeDoux SP. Consequences of targeting DNA repair enzymes to the mitochondria. Paper presented at: LSU; 2005 May 5; Shreveport, LA.


Wilson GL. Consequences of NO generation by free fatty acids. Paper presented at: University of Bari; 2005 Jul 19; Bari, Italy.


V. NATIONAL PROFESSIONAL RECOGNITION

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

Dr. Mohan Bhatnagar served as a member of the Science Advisory Board.

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

Dr. Phillip Fields served on Abstract Committee and was an Editor for the Annals of the New York Academy of Sciences for the Relaxin and Related Peptides 4th International Conference; served on the Nominating Committee (2004-2005) and Chaired the Nominating Committee (2005-2006) for the Society for the Study of Reproduction; served on the Program Committee for the 2006 Annual Meeting of the Society for the Study of Reproduction.

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

Dr. Steve Kayes was elected as Vice President of the American Society of Parasitologists; served as Chair for the Local Organizing Committee for the 80th Annual Meeting of the American Society of Parasitologists; concluded an 8-year term as Associate Editor of Journal of Parasitology.

Dr. Susan LeDoux served as a member of the NIH Study Section on Radiation Biology and Therapeutics; served as a member of the Special Emphasis Panel ZRG1 BDA-F; served on the Editorial Board of DNA Repair; served on the Program Committee for the International Conference on Environmental Mutagens.
Dr. Solomon Ofori-Acquah served as a Reviewer for *Experimental Hematology*; was an elected member of the American Association for Cancer Research.

Dr. Glenn Wilson served as a Reviewer for the National Institute of Environmental Health Sciences Site Visit Team for the Center Grants at the University of Arizona and the University of Texas; served as a Grant Reviewer for the American Diabetes Association; served as a Grant Reviewer for the Welcome Trust; served as an Ad Hoc Reviewer for the NIH Center for Scientific Review, Cellular Aspects of Diabetes and Obesity; served as Associate Editor for *Clinical Science*, London.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

During the past year, the Department experienced some change in its faculty. Drs. Leonard Aldes and Robert Chronister retired. Dr. Aldes had been on the faculty for more than 20 years and Dr. Chronister for more than 30 years. Both individuals played integral roles in the Department’s teaching mission and they will be greatly missed. The Department is presently in the process of searching for suitable replacements.

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. David K. Simon from the Department of Neurology at Harvard Medical School presented a seminar on November 11, 2004; Dr. Bruce Demple from the Department of Genetics and Complex Diseases at Harvard School of Public Health presented a seminar on December 16, 2004; Dr. Keith Garlid from the Department of Biology at Portland State University presented a seminar on January 20, 2005; Dr. Yung-Chi Cheng from the Department of Pharmacology at Yale University School of Medicine presented a seminar on March 17, 2005; and Dr. Thomas Kunkel from the Laboratory of Structural Biology at the National Institute of Environmental Health Sciences presented a seminar on April 28, 2005.

In the area of teaching, the Department continued to provide over a quarter of the instruction given to medical students in the first two years. Moreover, courses were provided for Residents in the Department of Obstetrics and Gynecology and the Department of Neurology. Additionally, undergraduate courses were presented on Gross Anatomy for Physicians Assistant students and Histology for Allied Health students. Also, a remedial course was presented on Histology over the past summer. 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 seek to enhance its teaching mission by playing a leading role in the development of the new Neuroscience initiative and by increasing our efforts to provide health related education to students in the public school system.
2004-2005
Summary of Scholarly Activities
Department of Comparative Medicine

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press

II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

Christian R. Abee, D.V.M., is a Council Member Emeritus, Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC), an NIH Site Visitor and Review Committee Member - Base Grant, Oregon National Primate Research Center, the Chair, Southwest National Primate Research Center Scientific Advisory Board - San Antonio, TX, a member of the University of Washington National Primate Research Center, Scientific Advisory Committee at Seattle, WA, and consultant for development of a resource allocation plan at Yerkes National Primate Research Center, Atlanta, GA.
Alan G. Brady, D.V.M., 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 (AABR). Dr. Brady is a member of the American Association for Laboratory Animal Science (AALAS) and is on the Board of Directors of the MidSouth Branch. He is president-elect of the Association of Primate Veterinarians (APV), a member of the Workshop Planning Committee and Board of Directors.

Additionally, he is a member of the American Society of Primatology (ASP) and a member of the Program Committee for the 2005 meeting. Dr. Brady is also consultant on animal care to the U.S. Air Force at Keesler Air Force Base, MS.

Susan V. Gibson, D.V.M., is a member of the Finance and Membership Committee of the American Society of Primatologists, 2003-2005. She is a reviewer for the American Journal of Primatology and the ILAR Journal.

Julio C. Ruiz, D.V.M., a member of the International Congress for Laboratory Animal Science, was invited to chair the seminar, “Nonhuman Primates: Cares, Use, Environmental Enrichment, and Zoonoses,” at the regional scientific meeting held in Buenos Aires, Argentina, November 9-12, 2004. He was also invited to present a course (10 hours) on Primatology at the School of Veterinary Medicine, University of Buenos Aires, Argentina, November 15-17, 2004.

Lawrence E. Williams, Ph.D., is co-chair of the Program Committee, American Society of Primatologists 2005-2006, as well as a member of the Committee on Captive Care and Breeding Committee of the International Primatological Society. He is also a reviewer for three scientific journals: Contemporary Topics in Laboratory Animal Science, American Journal of Primatology, and Animal Behavior.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Comparative Medicine (DCM) is one of six basic medical science departments of the College of Medicine. Departmental faculty and staff balance their activities between service, educational, and research programs in the university’s animal care and use program. The department provides professional and technical support for all animal research laboratory facilities and administration of the laboratory animal care and use program of the University. The DCM is organized with five core functions. These are the laboratory animal medicine core, the animal diagnostic laboratory core, the biological resource core, the computer operations/database core, and the administrative core.
The DCM occupies approximately 48,000 square feet divided between two geographically separate sites: the Medical Sciences Building Biologic Research Laboratory (BRL), completed in 1996, and the Center for Neotropical Primate Research and Resources (CNPRR).

The CNPRR is the centerpiece for research within the department. The CNPRR is the largest breeding and research project for neotropical primates, squirrel monkeys and owl monkeys, in the United States. Work within the CNPRR is funded by P40 and R24 grants from the National Center for Research Resources, which promote the development and use of neotropical primates and tissues and cells derived from them as models for human disease processes. Collaborative efforts between faculty within the CNPRR and both national and international investigators have greatly enhanced the value of the resource.

Effective September 1, 2005, Dr. Abee left the department to become the Doctor R. Lee Clark Professor and Chair, Department of Veterinary Sciences, and Director, Michale E. Keeling Center for Comparative Medicine and Research, University of Texas MD Anderson Cancer Center, in Bastrop, Texas. Dr. Jonathan Scammell, Professor of Pharmacology and Comparative Medicine, will have the position of Interim Chair of Comparative Medicine and Dr. Alan Brady, Associate Professor of Comparative Medicine, will become Interim Director of the Division of University Biological Resources within the department. Dr. Abee will remain as Principal Investigator of P40 and R24 grants supporting the CNPRR at USA and will play an active role in all aspects of the projects. Dr. Abee’s continued participation will play an important role in achieving our immediate goals within the department, that of enhancing its scientific and educational mission by dedication on the part of existing faculty to scholarly productivity and future targeted recruitment of faculty with interests in new and different animal models.
2004-2005
Summary of Scholarly Activities
Department of Emergency Medicine

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Pettyjohn FS; Greig TW; McGhee JS. Should statins be in aircrew water? Paper presented at: International Congress of Aviation and Space Medicine; 2005 Aug 28-Sep 1; Warsaw, Poland.

V. NATIONAL PROFESSIONAL RECOGNITION

Frank S. Pettyjohn served in the following positions: Chairman, Department of Emergency Medicine; Director, Division of Cardiology; 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: Vice Chairman, Department of Emergency Medicine; 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); Sub-Committee Chair, ACEP Academic Affairs Committee; SAEM Program Committee and Scientific Sub-committee Member; Reviewer, Academic Emergency Medicine.

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 Stated 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 development of the Academic 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 is underway. The Residency Review Committee site visit was conducted 1 June 2005. Decision is pending at this time. Support by the Dean, College of Medicine, and Faculty for the development of the Residency Program has been maintained. Recruiting of additional faculty has maintained clinical capabilities, enhancing the teaching program, and provides the basis for implementing the Emergency Medicine Residency Program.

EDUCATION: The Faculty of the Department of Emergency Medicine continues to be recognized by the graduating medical school class of the College of Medicine as having significantly enhanced their medical education. Frank S. Pettyjohn, M.D., Michael L. Sternberg, M.D., Melissa W. Costello, M.D., and Marion C. Berg, M.D., were again selected to receive recognition at the honors convocation of the College of Medicine graduating class of 2004. The medical students continue to select the Emergency Medicine rotation as one of the most-sought-after training sites. Additionally, Dr. Sternberg was voted the best clinical professor for the U.S.A. Physician Assistant Program.
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 initial interaction with Emergency Medicine Attending Faculty. Michael L. Sternberg, M.D. continues to direct the teaching syllabus for the fourth-year medical student elective, which receives recognition by the medical students. Frank S. Pettyjohn, M.D. directs the Emergency Medicine Acting Intern program for the fourth year medical student. Alan E. Heins, M.D. directs the PGY-1 Intern rotation. 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. William W. Beasley, D.O., forms the core faculty as Emergency Medicine Residency Trained and Board certified Physicians. Christen A. Zuschke, M.D. will join the Department of Emergency Medicine in September 2005. Michael L. Sternberg, M.D., Christen A. Zuschke, M.D., and Frank S. Pettyjohn, M.D. are also Board Certified in Emergency Medicine. Additional staff physicians providing a broad-base for educational efforts include: P. Conrad McGuire, M.D., Residency Trained and Board eligible in Internal Medicine and Board eligible Pediatrics; Lynne A. McDonnell, M.D., Residency Trained and Board certified in Internal Medicine and Pediatrics; W. Scott McNair, M.D., Residency Trained and Board certified in Internal Medicine and Pediatrics; James Y. Wan, M.D., Residency Trained in Internal Medicine and Michael R. Ambrose, M.D., Residency Trained and Board certified in Family Practice joined the Department.

FACULTY DEVELOPMENT: Joint Faculty activities continue 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, Dr. Conrad P. McGuire, and Dr. Lynne A. McDonnell provide educational programs for joint Emergency Medicine and Pediatrics. Enhanced internet capabilities in the departmental offices provide the faculty with updated technologic capabilities to continue developing educational programs. Photographic capabilities utilize an improved scanner capability, digital camera, and LCD projector to provide clinical presentations. The digital camera and 35mm still camera are used as the primary photographic capability to be used in the Emergency Department for patient documentation. Dr. Michael L. Sternberg serves as the primary faculty contact for the development and coordination of these educational opportunities.
CLINICAL FACILITIES: During the 2004-2005 program year, the Department of Emergency Medicine continues 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 the clinical emergency care delivery at the Emergency Department of U.S.A. Knollwood Park Hospital.

A core group of Clinical Faculty provides support for the University of South Alabama Knollwood Park Hospital Emergency Department. Thomas J. Kelly, D.O., Barbara C. Mitchell, M.D., Antonio L. Pacheco, M.D., Terry N. Rivers, M.D., and Michael R. Ambrose, M.D. provides the Emergency Medicine services at this facility. These physicians are appointed as Clinical Emergency Medicine Faculty in the Department of Emergency Medicine.

The Departmental offices are on the 10th floor of the University of South Alabama Medical Center. These facilities continue to be updated to include advanced audiovisual capabilities, a still photographic and digital photographic laboratory, a slide development and presentation production area, and a multi-center computer learning system. A computer system has been placed in the University of South Alabama Medical Center Emergency Department to provide Faculty and Housestaff with immediate access to an Internet. Additionally, a Telemedicine System with sending and receiving capabilities is installed in the Conference Room of the Department of Emergency Medicine to facilitate educational teleconference by National and International experts.

The Department of Emergency Medicine provides support to the University of South Alabama Children and Women’s Hospital. Lynne A. McDonnell, M.D., P. Conrad McGuire, M.D., and W. Scott McNair, 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 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 tenth year of operation, with the primary clinical site at Medical Office Park Three, at the University of South Alabama Knollwood Park Hospital Campus. The program is under the Principal Investigator, Frank S. Pettyjohn, M.D., with Afifa Halim-Kirolos, 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. The Division of Clinical Research is conducting a series of antihypertensive trials, lipid treatment trials, osteoporosis treatment trials and other associated treatment trials for a wide variety of clinical applications.
2004-2005
Summary of Scholarly Activity
Department of Family Medicine

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles

B. Articles in press

II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

Molokhia E; Perkins RA. Procedure documentation and expert theory: do they intersect? Annual Workshop for Family Medicine Residency Directors; 2005 Jun 5; Kansas City, MO.

Perkins RA; Meriwether R; Theis J; Post R; Pinsker E. Collaborating with the community in primary care: teaching and modeling community-responsive practice. Paper presented at: Society of Teachers of Family Medicine Spring Conference; 2005 May 2; New Orleans, LA.

Benson J; Perkins RA; Cashman S; Garr D; Meriwether R; Freeman J; Barnes L; Post R. Rethinking community medicine education: new initiatives, ongoing debates. Paper presented at: Society of Teachers of Family Medicine Spring Conference; 2005 May 2; New Orleans, LA.
V. NATIONAL PROFESSIONAL RECOGNITION

Allen 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. He serves as Chair of the Alabama Academic Family Medicine Council, a state-wide council of the two medical schools, the Alabama Academy of Family Physicians and other residency programs that are studying methods to increase interest in primary care, Family Medicine and Rural Health.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

After serving as Chair since March of 2000, Dr. E. Lee Taylor retired on December 31, 2004. Dr. Allen Perkins, who also serves as the department’s Residency Director, was named Interim Chair. Dr. Larry Henderson assumed the role of Director of Predoctoral Education. Dr. Lekeshia Jarrett resigned in July to relocate with her husband, a graduate of the Orthopedic Surgery program, who entered fellowship training. Dr. Shannon Morgan transferred to the Department of Emergency Medicine, retaining a joint appointment with the Department of Family Medicine. Dr. Shyla Reddy is currently on a one-year leave of absence while she pursues a fellowship in Geriatric Medicine at Emory University. She is expected to return to the department in July, 2006 and will provide leadership in the area of Geriatrics to the residency program as well as provide a valuable resource to our elderly patient population.

Drs. Allen Perkins and Larry Henderson worked with Polymerous Design and local community actors to create a multimedia resource based on 20 common ambulatory problems seen in Family Medicine. This new instructional material was added to the third year clerkship curriculum in the 2005-06 academic year.

Dr. Ron Lee has developed partnerships between the University and the Mobile County Health Department’s Health Partnership Coalition to investigate the feasibility of a church based health program.

Dr. Allen Perkins was recognized by the Class of 2005 as distinguished faculty. Dr. Ehab Molokhia was honored by the graduating Family Medicine residents as “Clinical Teacher of the Year, 2005.”

The department successfully competed for two Health Resources and Services Administration (HRSA) training grants. We have also continued to receive funding from the Alabama Family Practice Rural Health Board in support of our undergraduate and graduate programs.
2004 - 2005
Summary of Scholarly Activities
Department of Internal Medicine

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


**Critz SD, Cohen MV, Downey JM.** Mechanisms of acetylcholine- and bradykinin-induced preconditioning. Vas Pharmacol 2005 Apr/May; 42 (5-6): 201-9.


**Crook ED, Penumalee S, Gavini B, Filippova K.** Hepatitis C is a predictor of poorer renal survival in diabetic patients. Diabetes Care 2005 Sep; 28(9): 2187-91.


Downey JM, Cohen MV. We think we see a pattern emerging here. Circulation 2005 Jan 18; 111(2): 120-1.


Krieg T, Qin Q, Alexeyev MF, Cohen MV, Downey JM. Acetylcholine and bradykinin trigger preconditioning in the heart through a pathway that includes Akt and NOS. Am J Physiol 2004 Dec; 287(6): H2606-11.


Yang X.-M, Philipp S, Downey JM, Cohen MV. Postconditioning’s protection is not dependent on circulating blood factors or cells but involves adenosine receptors and requires PI3-kinase and guanylyl cyclase activation. Basic Res Cardiol 2005 Nov; 100: 57-63.

B. Articles in press


II. PUBLISHED ABSTRACTS


**Haynes J**, Hester R, Baliga S and Obiako B. Hemoglobin F is not a determinant of SRBC retention/adherence in the isolated perfused rat lung. *28th National Sickle Cell Program Meeting.* 2005 Apr; Cincinnati OH. Abstract no. 128.


Nimmagadda S, Gavini B, **Crook ED.** Statins but not lipid levels are associated with renal survival in diabetics. *J Am Soc Nephrol* 2004 Oct; 15: 574A.


Philipp S, Yang X-M, Willenbrock R, Downey JM, **Cohen MV.** Postconditioning must be initiated in less than 1 minute following reperfusion and is dependent on adenosine 2b receptors and PI3-kinase. *Zeitschrift für Kardiologie* 2005 Mar; 94(Suppl 1): V803.

Philipp S, Cui L, **Cohen MV**, Downey JM. Prolyl hydroxylase inhibitors protect the heart by inducing mitochondrial ROS generation via No, CGMP, PKG, and mitoK\textsubscript{ATP}. *J Mol Cell Cardiol* 2005 May; 38 (6): 857.


Ringold JF, Montgomery TB, Green WK. A pesky cause for acute flaccid paralysis. Southern Medical Association, 98\textsuperscript{th} Annual Scientific Assembly; 2004 Nov; New Orleans, LA.


Siegel JD, DiPalma JA. Potential combustible gas production from agents used for colon cleansing. 69\textsuperscript{th} Annual Scientific Session of the American College of Gastroentroerology 2004 Oct 30; 99: S289. Orlando, FL.


Solenkova N, Cohen MV, Downey JM. Ischemic preconditioning protects the heart through adenosine receptor activation during reperfusion. J Mol Cell Cardiol 2005 May; 38(5): 848.


Yang X-M, Downey JM, Cohen MV. Atrial natriuretic peptide (ANP) at reperfusion limits infarction in rabbit hearts by activation of PKG and opening of mK\textsubscript{ATP} channels. J Mol Cell Cardiol 2005 May; 38(5):867.
III. BOOKS PUBLISHED

IV. PRESENTATIONS

**Allison RC.** New approach in the management of COPD. Paper presented at: Gulf Coast Lung Conference; 2004 Aug 25; Biloxi, MS.

**Amato A; Armentrout A.** An unusual case of hemolytic anemia and thrombocytopenia. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

**Amato A; Armentrout A.** A clinically significant incidentaloma. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

**Boles N; Boniol S.** Prenicious anemia. Paper presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

**Broughton WA.** The sleeping heart (or sleep apnea & the heart). Paper presented at: The Heart Group Retreat; 2005 Apr 8-9; Orange Beach, AL.

**Bullard D; Montgomery T.** Atypical pneumonia in an immunocompetent host D. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.


**Cohen MV; Ayling JE.** An acute decrease in plasma total homocysteine promoted specifically by a single dose of 5-methyl-6(S)-tetrahydrofolate. Paper presented at: 5th International Conference on Homocysteine Metabolism; 2005 Jun 26-29; Milan, Italy.


**Cohen MV.** Postconditioning's protection is not dependent on circulating blood factors or cells but requires PI3-kinase and guanylyl cyclase activation. Paper presented at: American Heart Association; 2004 Nov 6-10; New Orleans, LA.
Cohen MV. Pharmacokinetics of oral folic acid compared to 5-Methyl-6(S)-tetrahydrofolate in human plasma. Urinary folate excretion after oral doses of folic acid or 5-Methyl-6(S)-tetrahydrofolate in humans. Paper presented at: Experimental Biology; 2005 Apr 4-6; San Diego, CA.

Cohen MV. PI3 kinase supports the preconditioned heart through a critical convalescent period. Ischemic preconditioning protects the heart through adenosine receptor activation during reperfusion. prolyl hydroxylase inhibitors protect the heart by inducing mitochondrial ROS generation via No, CGMP, PKG, and mitoK_{ATP}. Atrial Natriuretic Peptide (ANP) at reperfusion limits infarction in rabbit hearts by activation of PKG and opening of mK_{ATP} channels. Paper presented at: International Society for Heart Research; 2005 May 12-15; New Orleans, LA.


Crook ED. The importance of blood pressure control in diabetes. Presented at: Florida Diabetes Prevention & Control Program Lecture series teleconference; 2004 Dec 8; Detroit, MI.

Crook ED. SEPA partnerships with medical/research societies. Paper presented at: Science Education Partnership Awards (SEPA) Directors Meeting; 2005 Feb 19; Tucson, AZ.

Crook ED. Diagnosis and management of hypertension in special populations. Paper presented at: Annual Session of American College of Physicians; 2005 Apr 16; San Francisco, CA.


Crook ED. Medical ignorance collaboratory. Q3 collaboratory: medical questions/discoveries & the media/public perspective. Paper presented at: University of AZ Health Sciences; 2005 Feb 21; Tucson, AZ.

Crook ED. Scope of and methods of addressing the issue. Paper presented at: University of South Alabama Health Disparities Assembly Health Disparities in Cardiovascular and Renal Disease; 2005 Jul 29; Mobile, AL.

DiPalma JA. Visiting Professor GI Fellowship. Cutaneous manifestations of GI disorders. Paper presented at: Medical Grand Rounds: Brook Army Medical Center; 2005 Aug 18; Fort Sam Houston, TX.


DiPalma JA. Introduction to endoscopy, approach to the diagnosis and management of inflammatory bowel disease; Paper presented at; GI First Year Fellow’s Course; 2004 Dec 11; Orlando, FL.

DiPalma JA. Funding for graduate medical education. Paper presented at: GI Fellowship Training Director’s Course; 2005 Feb 5; Phoenix, AZ.


Fulmer C; Montgomery T. Rhadomyolysis in a 21 year old with viral prodrome. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.


Herrera JL. Current concepts in hepatitis C infection. Paper presented at: Gastroenterology Grand Rounds VA Medical Center; 2004 Oct 7; Little Rock, AR.

Herrera JL. Expanding hepatitis C care. Paper presented at: Medical Grand Rounds Tuscaloosa VA Hospital; 2004 Dec 14; Tuscaloosa, AL.

Herrera JL. Approach to hepatitis C infection in correctional facilities. Paper presented at: Alabama Department of Corrections Annual Meeting; 2004 Dec 8; Birmingham, AL.

Herrera JL. Managing side effects and comorbidities of hepatitis C therapy. Paper presented at: VA Medical Center Grand Rounds; 2005 Jan 12; Montgomery, AL.

Herrera JL. Medical care of the patient with cirrhosis. Paper presented at: Postgraduate Gastroenterology Course, University of South Florida; 2005 Feb 11; Tampa, FL.


Herrera JL. Management of hepatitis C. Paper presented at: 5th Annual Gastroenterology Symposium, Baptist Health South Florida; 2005 Apr 16; Sonesta Beach, FL.
Herrera JL. Advances in HIV-HCV coinfection. Paper presented at: ANAC Quarterly Meeting; 2005 May 4; Memphis, TN.

Herrera JL. Chronic hepatitis C. Paper presented at: Annual Convention of the Hospital del Maestro; 2005 May 28; San Juan, Puerto Rico.


Herrera JL. Controversies in the treatment of hepatitis C infections. Postgraduate Gastroenterology Course, University of South Florida; 2005 Feb 11; Tampa, FL.

Herrera JL. Keeping your cirrhotic patients healthy. Paper presented at: 3rd Annual Digestive Diseases Update, University of Mississippi School of Medicine; 2005 Apr 22; Jackson, MS.


Howell D; Blair J. Chronic urticaria/the 1-year itch. Paper presented at: National Society of General Internal Medicine Meeting; 2005 May 12; New Orleans, LA.

Howell D; Blair J. Good girl, bad disease: HIV presenting as seborrhea in a low risk patient. Paper presented at: National Society of General Internal Medicine Meeting; 2005 May 12; New Orleans, LA.

Hundley T; Cunningham JM. Learner as teacher - teaching students to teach. Paper presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

Hundley T; Cunningham JM. Learner as teacher - teaching students to teach. Paper presented at: National Society of General Internal Medicine Meeting; 2005 May 12; New Orleans, LA.

Hundley T; Cunningham JM. Another reason not to do drugs. Paper presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.
Loper, T; Montgomery T. An unusual type of pneumonia in an immunocompromised patient. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.


Massey CV. Acute ST Elevation MI, Department of Physician Studies; Paper presented at: USA Springhill Avenue Campus (Physician Assistants meeting); 2004 Nov 15; Mobile, AL.


Massey CV. Get with the Guidelines Management of ACS. Paper presented at: 2005 Apr 22; Birmingham, AL.


Olden KO. Psychological aspects of the functional gastrointestinal disorders. Paper presented at; Hubert Visiting Professor of Medicine, University of Montreal; 2005 Jan 26-27; Montreal, Canada.

Olden KO. The use of antidepressants in gastroenterology. Paper presented at: Visiting Professor, Division of GI, Oschner Clinic; 2005 Mar 2-3; New Orleans, LA.

Olden KO. Narcotic induced bowel dysfunctions. Paper presented at: International Foundations for Functional Gastrointestinal Disorders 5th Biannual Symposium; 2005 Apr 9; Milwaukee, WI.


Olden KO. Treatment of irritable bowel syndrome. Paper presented at: Cox Health Care Annual Endoscopy Symposium; 2005 Apr 30; Springfield, MO.
Olden KO. Treatment of irritable bowel syndrome. Paper presented at: Mercer University College of Medicine, Medical Grand Rounds; 2005 Jun 8; Macon, GA.

Olden KO. The evaluation of chronic abdominal pain. Paper presented at: University of South Alabama Medical Alumni Symposium; 2005 Jun 18; Perdido Key, AL.

Olden KO. The approach to the treatment of irritable bowel syndrome. Paper presented at: Aultman Health Foundation Visiting Professor of Medicine; 2005 Jul 27; Canton, OH.

Olden KO. The gynecologist's role in the treatment of IBS. Paper presented at: Sacred Heart Hospital OB/GYN Grand Rounds; 2005 Aug 12; Pensacola, FL.

Olden KO. Treatment of opioid induced bowel dysfunction. Paper presented at: World Congress of Gastroenterology; 2005 Sep 14; Montreal, Canada.

Peters M; Cunningham JM. Recognition and treatment of pneumococcal disease: the meninges, the spleen, and the pneumococcal vaccine. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

Ramsey KM. Bioterrorism: the potential is here. Paper presented at: North Baldwin Medical Society; 2004 Nov 23; Bay Minette, AL.


Ramsey KM. Management and diagnosis of complicated gram positive infections. Paper presented at: Singing River Hospital Medical Staff Meeting; 2005 May 19; Pascagoula, MS.

Rego RF. Academic skills workshop. Paper presented at: American Gastroenterological Association; 2005 Feb; Phoenix, AZ.
Ringold J; Green WM; Montgomery T. A pesky cause for acute faccid paralysis. Paper presented at: Southern Medical Society; 2004 Nov 11; New Orleans, LA.

Rutland T; Montgomery T. An unusual case of menningitis. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

Siegel JD; DiPalma JA. Potential combustible gas production from agents used for colon cleansing. Paper presented at: 69th Annual Scientific Session of the American College of Gastroenterology; 2004 Oct 30; Orlando, FL.

Sharif A; Montgomery T. An unusual cause of acute onset generalized weakness. Poster presented at: Southern Society of General Internal Medicine Meeting; 2005 Feb 25-26; New Orleans, LA.

Stevens TE. Dementia, a clinical perspective. Paper presented at: Fairhope Inn; 2005 Jul; Fairhope, AL.

Stevens TE. Dementia, R throughout the continuum. Paper presented at: Cafe‘615; 2005 Aug; Mobile, AL.

Stevens TE. Dementia, new concepts in R. Paper presented at: Ruth’s Chris; 2005 Aug 9; Mobile, AL.


Vande Waa JA. Infections with seafood. Paper presented at: Society of Physician Assistant’s Annual Conference; 2004 Nov 12; Biloxi, MS.

V. NATIONAL PROFESSIONAL RECOGNITION


William 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. For USA College of Medicine - ATS Tri-State Thoracic Society Meeting.


Errol D. Crook, M.D. served in the following capacities: President, NIH/NHLBI Observation Study Monitoring Board (Family Heart Study Sub-clinical Atherosclerosis Network) FHS-SCAN; Data Safety Monitoring Board: PO1-AG021654-01: Institute of Aging Research; Albert Einstein School of Medicine, American Federation of Medical Research, American Federation of Medical Research Foundation; Editorial Boards/Associate Editor Co-editor Ethics Section American Journal of Medical Sciences; Journal of Investigative Medicine.

Jack A. DiPalma  Novartis Advisory Board, Optimize Regional Medical Support, 2003-2004;  Takeda Advisory Board, 2005; Bovie Technical Advisory Board, 2005; serves on the Board of Trustees for the American College of Gastroenterology ACG Institute for Research and Education. Dr. DiPalma was re-elected to the Board of Censors for the Medical Society of Mobile County and the Mobile County Board of Health and is chairman of Takeda Constipation Advisory Board, and is a technical advisor to Bovie Medical Corporation. He also serves on the Braintree MiraLax Advisory Board and IBS Advisory Board.


Jorge L. Herrera. Served on Board of Directors, Alabama Chapter of the American Liver Foundation; 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; he continues to serve as a member of the Board of Directors of the Alabama Chapter of the American Liver Foundation; Dr. Herrera received this year’s Excellence Award for the American Liver Foundation in recognition for his work in the area of liver disease. He is a reviewer for the American Journal of Gastroenterology, the Clinical Journal of Gastroenterology, the Southern Mediql Journal and the American Journal of Medicine.

Clara V. Massey, M.D. served as District Councillor for the Alabama Chapter, of the American College of Cardiology.

Thomas B. Montgomery was promoted to Fellow by the American College of Physicians.

Kevin W. Olden. Immediate Past President, Functional Brain Research Group, American Gastroenterological Association; served on Archives Committee, American College of Gastroenterology, 2005; Editorial Board, American Journal of Gastroenterology; Series Editor, Treatment of Irritable Bowel Syndrome, Practical Gastroenterology, 2001-2005; Member, Medical Advisory Board Cyclic Vomiting Association of America; Member, Behavioral Medical Study Section, National Institute of Health, 1997-2005.

Frank S. Pettyjohn M.D. served as Cardiology Consultant to the Federal Aviation Administration: Board of Directors and President, International Academy of Aviation and Space Medicine.

Keith M. Ramsey, M.D. was elected as a Fellow of the Infectious Disease Society of America; Appointed to the Center for Disease Control and Preventions Healthcare Infection Control Practices Committee for 2005-2009.

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. The Internal Medicine Clerkship continues to be recognized as the best clerkship for third year students and our electives for fourth year students also remain quite popular. Dr. Thomas Montgomery has been made Vice Chair for Education for the department and the Program Director for the Internal Medicine Residency Program. There has been successful recruitment of Dr. John Schultz to the department. This is an outstanding addition to our core of teachers as he has been recognized as an outstanding educator by our students and residents as well as by the medical students at the University of Arkansas Health Sciences campus.

Administration

Errol D. Crook, M.D. was successfully recruited to take on the position of Abraham A. Mitchell Chair and Chairperson of the Department of Internal Medicine. Dr. Crook started in June of 2005 and has launched the recruitment efforts of several faculty members in critical leadership positions.
John B. Bass, Jr., M.D. formerly the Chair of the Department has now been recognized as a Distinguished Professor by the Board of Trustees of the University of South Alabama. Dr. Bass is indeed legendary as a medical educator and is fully deserving of this honor.

Dr. Bass continues to perform the same educational tasks that he has performed over the previous several years that include attending full-time on general internal medicine at the Medical Center, meeting with third year medical students rotating on medicine clerkship at least once a week, and giving various conferences and lectures to residents and students. This department is truly fortunate to have a person of his expertise and dedication to the educational mission remain on the faculty.

The department is excited about the opportunity of new affiliation with the Mobile Infirmary as it should facilitate new opportunities for education, clinical activity and programs, and research. The Department of Medicine feels that the educational opportunities for internal medicine residents, fellows and medical students would definitely be enhanced by exposure to a broader array of patients and community physicians with the Mobile Infirmary affiliation. Similarly clinical research opportunities and the development of unique clinical programs to take advantage of departmental expertise will be enhanced by this affiliation.

The department looks forward to recruitment of individuals to enhance the educational and clinical opportunities for trainees and faculty in Geriatrics, Endocrinology, and Rheumatology. In addition, the department will be searching for leaders in the Divisions of Pulmonary Critical Care, Cardiology, and General Internal Medicine. These searches will be national in scope with a focus of bringing individuals with an ability to build unique clinical and research programs.

Scholarly Efforts

The department has continued to have significant scholarly activity from its members. These efforts include the scholarship of primary research as well as the scholarship of synthesis. Several individuals on the faculty are considered thought leaders in their particular subspecialties and have earned an international reputation. We are encouraging those activities to continue and we will be looking for methods where we may enhance the other faculty member’s activities in this regard.
Service

The department has increased its clinical activity in virtually all subspecialties. Clinicians are examining the development of unique clinical services that may be of assistance in meeting our missions as well as filling a necessary niche in the community. In addition, the department has been well represented on editorial boards and in the leadership of medical and community organizations on a national and regional basis. The department will continue to encourage the faculty to serve the medical community in whatever capacities are available and to serve the greater Mobile and Gulf Coast community with this service.
2004-2005
Summary of Scholarly Activities
Department of Medical Genetics

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


Hilliard M, Wertelecki W. Evaluation of linking infants with birth defects to services via the medical home. National Birth Defects Prevention Network Annual Meeting; 2005; Scottsdale, AZ.

Martinez J, Wertelecki W. Severe dwarfism and marked osteopenia in a patient with spondyloepimetaphyseal dysplasia with joint laxity. The Meeting of The American College of Medical Genetics; 2005; Grapevine, TX.


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Chen TJ. Clinical Genetic Counseling. Paper presented at: Peking University Medical Genetic Center; 2005 Jun 20; Beijing, China.


Chen TJ. Section Chair. Symposium on prenatal diagnosis/PGD and genetic counseling; Paper presented at: International Conference on Genomic Medicine; 2005 Jun 29; Shanghai, China.

Martinez J. Fetal Alcohol Spectrum Disorder. Paper presented at: 26th Annual Spring Conference on Mental Retardation; 2005 Apr 13; Gulf Shores, AL.

Martinez J. Genetics in Medicine. Paper presented at: 2005 Advanced Training Course for Medical Geneticists Peking University Health Science Center; 2005 Jun 17-22; Beijing, China.

Martinez J. Microdeletions and the dysmorphic newborn. Paper presented at: Conference on Current Issues in Medical Genetics; 2005 Jan 14; Mobile, AL.

Martinez J. Severe dwarfism and marked osteopenia in spondyloepimeta physeal dysplasia with joint laxity (SEMDJL). Poster presented at: ACMG Meeting; 2005 Mar 18 2005; Dallas, TX.

Wertelecki W. Biovision – polio vaccine’s 50th anniversary. Paper presented at: A World Life Sciences Forum March Of Dimes Dinner Debate – Gen Services and Primary Care in Developing Countries; 2005 Apr 11; Lyon, France.


Wertelecki W. Prevention of spina bifida in Ukraine. Paper presented at: Childrens’ Chornobyl Foundation; 2004 Nov 19; E Hanover, NJ.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Wladimir Wertelecki is founder and President of the Southern Genetics Group; founder and President of Ibero-American Society of Medical Genetics; founder and Secretary/Treasurer of the World Alliance of Organizations for the Prevention and Treatment of Genetic and Congenital Conditions; founder and President of the American Dermatoglyphic Association; member of the Governor’s Mental Retardation Review Committee; Dr. Honoris Causa, Mohyla University, Kyiv, Ukraine. He is a member of the National Academy of Sciences of Ukraine and the National Academy of Medicine of Argentina. Dr. Wertelecki received the Humanitarian Award by the Mobile Association for Retarded Citizens; the Kiwanis World Service Medal and the Peter Leibert Community Prevention Action Award of Alabama. Dr. Wertelecki is an acknowledged data contributor to the WHO Genome Research Center.

Dr. Wertelecki has been recently charged by the World Alliance for the Prevention of Birth Defects and the International Genetics Association to develop a worldwide appeal to be forwarded to all Ministers of Health concerning the imperative to prevent spina bifida through folic acid flour fortification programs. (http://www.ibis-birthdefects.org/start/sb_appeal_eng.htm)

Dr. Tian-Jian Chen is a fellow of the American College of Medical Genetics; serves on the Board of Editors for Applied Immunohistochemistry and Molecular Morphology; is Secretary for the Association of Chinese Geneticists in America; and is Editor for the book Clinical Genetic Counseling.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The COM II Medical Genetics Course has further expanded its emphasis on case-based 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. This year, the Medical Genetics Course was uploaded to the University's e-Companion system online, improving student-faculty interaction, as well as providing student access to learning materials and course schedules. The majority of this year's class has rated the course as "very good" or "excellent". Regarding USMLE Step 1, scores in Genetics are among the highest.

Clinical activities have been 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. The USA Pediatric and Medicine/Pediatric graduating class of 2005 recognized Medical Genetics as the best sub-specialty 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 families affected by a variety of genetic disorders, birth defects, mental retardation and other developmental disabilities are offered comprehensive medical evaluations and counseling.

The Clinical Cytogenetics Laboratory maintained CLIA and CAP certification, having passed CAP inspection in March. The laboratory is also certified by the states of Alabama and Florida. The Cytogenetics Laboratory also maintained its outstanding record on CAP proficiency tests with 100% correct answers on all proficiency challenges for the year. Over the last 10 years, our laboratory obtained correct diagnoses in 98.8% of the cases, as compared to 93.5% correct by other participating labs and 97.5% correct by the CAP referees. The growing importance of chromosome analysis in neoplasia has led to a further increase in oncogenetic studies in our laboratory. Molecular cytogenetic studies continue to increase significantly, spurred by the introduction of a variety of new FISH probes and growing physician awareness of the diagnostic power of this technology.
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. Tests for Myotonic Dystrophy and Rett syndrome are recently added services. 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 Departments of Mental Health/Mental Retardation and Department of Rehabilitation Services.

Through a 4-year SAMHSA subcontract (subcontracted through Northrop Grumman, Information Technologies) we will serve as the state’s leading agency for the Alabama Fetal Alcohol Spectrum Disorder Initiative. This initiative links USA with every major state agency and private foundation in the state.

We continue to serve as the state’s leading agency for the Alabama Birth Defects (BD) Surveillance and Prevention Program, whereby surveillance is linked with care and prevention services. Voluntary agreements have been signed with 22 hospitals throughout 19 southern Alabama counties, and trained “genetics” nurses are deployed to obtain active, population-based BD information.

Our Ukrainian-American Birth Defects Program (UABDP) demonstrated that there is an epidemic of Spina Bifida in Ukraine. We established 5 OMNI Centers, 2 of which have started a pilot program to prevent Fetal Alcohol Syndrome in partnership with the National Institute on Alcohol and Substance Abuse and University of California (San Diego). Our International Websites continue to attract a large number of visitors. (~700,000 per year).

Our International Birth Defects Information Systems IBIS website is a multifaceted resource, popular with state, national and international programs. IBIS places our team, according to the March of Dimes, among one of four “Global Birth Defects Organizations”. Our website attracts nearly half a million readers per year and is used for practicums and other teaching and training activities at this University.
2004-2005
Summary of Scholarly Activities
Department of Microbiology and Immunology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


49


B. Articles in Press

II. PUBLISHED ABSTRACTS


Smith MA, McGee DJ. Random sequence analysis of the human pathogen Arcanobacterium haemolyticum. 105th ASM General Meeting; 2005 Jun 5-9; Atlanta, GA. Abstract no. C-042.

Viator RJ, Pannell LK, McGee DJ. Manganese-dependent differential protein expression in Bacillus anthracis. 105th ASM General Meeting; 2005 Jun 5-9; Atlanta, GA. Abstract no. B-025.

Wylie CR, Driskell LO, Pannell LK, Tucker AM, Wood DO. Proteomic analysis of Rickettsia prowazekii grown in mammalian and arthropod cell lines. 105th ASM General Meeting; 2005 Jun 5-9; Atlanta, GA. Abstract no. D-079.
III. BOOKS PUBLISHED

IV. PRESENTATIONS


Foster JW. Protons at the gate: *E. coli* acid resistance strategies and regulatory links to pathogenesis. Paper presented at: Auburn University; 2004 Nov 8; Auburn, AL.

Foster JW. The tangled web of *E. coli* acid resistance: tales of an amateur acidophile. Paper presented at: University of Maryland; 2005 Apr 6; College Park, MD.

Foster JW. The complex sensory array linking *E. coli* acid resistance to pathogenesis. Paper presented at: 105th General Meeting American Society Meeting; 2005 Jun 5-9; Atlanta, GA.

McGee DJ. *Helicobacter pylori* and *Bacillus anthracis* arginase hors d’oeuvres: food for thought. Paper presented at: Louisiana State University Health Sciences Center; 2005 Feb 3; New Orleans, LA.

McGee DJ. *Helicobacter pylori* and *Bacillus anthracis* arginase hors d’oeuvres: food for thought. Paper presented at: Louisiana State University Health Sciences Center; 2005 Apr 18; Shreveport, LA.

Wood DO. *Rickettsia prowazekii*: a little genome goes a long way. Paper presented at: Department of Diagnostic Medicine/Pathobiology, College of Veterinary Medicine, Kansas State University; 2004 Nov 11; Manhattan, KS.

Wood DO. *Rickettsia prowazekii*: a little genome goes a long way. Paper presented at: Department of Medical Microbiology and Immunology; 2004 Dec 6; College Station, TX.

Wood DO. *Rickettsia prowazekii*: a little genome goes a long way. Paper presented at: Department of Microbiology, University of Georgia; 2005 Feb 10; Athens, GA.

Wood DO. Dissecting the *Rickettsia prowazekii* genome. Paper presented at: the 4th International Conference on Rickettsiae and Rickettsial Diseases; 2005 Jun 18; Logrono, Spain.
V. NATIONAL PROFESSIONAL RECOGNITION


Dr. David McGee has been Grant reviewer for the Research Grant Council, Hong Kong, ad hoc; reviewer for Host Interactions with Bacterial Pathogens Study Section, NIH, June 20-21, 2005; and ad hoc reviewer for Antimicrobial Agents Chemotherapy, American Journal of Gastroenterology, Cancer Research, European Journal of Biochemistry (FEBS J.), Gastroenterology, Gene, Helicobacter, Infection and Immunity, International Journal of Biological Science, Journal of Bacteriology, Journal of Clinical Investigation, Journal of Medical Microbiology, Journal Molecular Medicine, Molecular Microbiology, Trends in Microbiology, and Vaccine.

Dr. David Wood serves on the editorial board of Infection and Immunity and is a member of scientific review panel: NIH ZRG1 IDM-A.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department has several active research programs that have been the major foci of faculty activities. In addition to an excellent investigation that has been ongoing for three decades in M&I in the area of Rickettsial molecular and genetic biology funded by NIH in Drs. David Wood’s, Jon Audia and Herb Winkler’s laboratories, other studies conducted in Dr. John Foster’s laboratory are focused on the physiology, genetics and infectious studies of Salmonella and other enteric pathogens. The long standing studies of herpesvirus ocular immunobiology in the Laboratories of Drs. John Oakes and Bob Lausch continue.

Drs. David McGee (Assistant professor) and Traci Testerman have recently accepted an offer from LSU at Shreveport and will be leaving our medical school in November of this year. Our faculty wish the McGees well in Louisiana. They will be missed.

Some recent results in collaborative clinical cancer immunobiology research in patients with advanced renal carcinoma and in patient’s with several types of leukemia at the University of Innsbruck and the U. of Hamburg have been ongoing with NCI and private industrial support in the laboratories of Drs. Jim Rohrer, Adel Barsoum and Joe Coggin. These studies have given exciting and promising results.
These labs at USA have spent some 20 years investigating the role of a unique oncofetal immunogen [OFA/iLRP] in cancer immunobiology. These studies have led to the characterization of OFA/iLRP as an important tumor-specific universally expressed immunogen in human and animal cancers. The purification, cloning and production of purified OFA/iLRP provided a source of OFA for these collaborative clinical trials. Patient’s who had failed to develop remissions to renal cancers following contemporary therapies [surgery, radiation and chemotherapy] were given immunotherapeutic vaccinations with in vitro OFA-loaded, autologous dendritic cells [DC]. Following vaccination, most of the treated patients showed dramatic reductions in tumor burden and a clearing of metastastases. Nine of these patients remain alive and well at >5 years post-therapy. In a recent trial using recombinant OFA/iLRP DC cell therapy, 9 of 10 patients were stimulated to develop remissions and are doing well at 16 months post treatment. Many other spin off applications of the OFA technology are ready for commercialization. All the technology is patent protected. The University’s Technology Development Office is presently negotiating the sale of a license agreement of this promising OFA technology.
2004-2005
Summary of Scholarly Activities
Department of Neurology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


Bassam BA. Uncommon sensory conduction study workshop. Paper presented at: American Association of Neuromuscular and Electrodiagnostic Medicine (AANEM) 51st Annual Scientific Meeting; 2004 Nov 3; Savannah, GA.


Rothrock JF. Medical vs medicolegal causation: issues related to stroke. Paper presented at: Georgia Trial Lawyers Annual Conference; 2004 Nov 12; Amelia Island, GA.

Rothrock JF. Tension-type headache and migraine: are they really different? Paper presented at: Annual Meeting of the Portuguese Headache Society; 2005 May 14; Faro, Portugal.

Shuayto M, Lopez II. Administration of intravenous tissue plasminogen activator (t-PA) in a pediatric patient. Paper presented at: Southern Pediatric Neurology Society Annual Meeting; 2005 Mar 12; New Orleans, LA.

Zweifler RM. Advances in stroke prevention. Paper presented at: Springhill Medical Center; 2005 Jun 24; Mobile, AL.

Zweifler RM. Management of acute stroke. Paper presented at: Washington County Infirmary, Medical Staff Meeting; 2005 May 13; Chatom, AL.

Zweifler RM. Prevention of stroke in patients with noncardioembolic stroke or TIA. Paper presented at: National Teleconference; 2005 Aug 31; Mobile, AL.


V. NATIONAL PROFESSIONAL RECOGNITION

Bassam A. Bassam, Listed in "America’s Top Physicians" by Consumer’s Research Council of America (2004-2005)

John F. Rothrock, Listed in "America’s Top Doctors" by Castle Connolly Medical LTD; Received Allergan’s Excellence in Innovation Award (2005).

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Neurology’s outpatient office operations experienced an increase in patients evaluated, with improved patient insurance mix. The number of out-patient referrals has out-stripped our capabilities to provide timely evaluations. Additionally, the number of patients admitted to USA Knollwood Hospital and the USA Long-term Care facility have slightly increased over the last year. The neurology residents’ performance on the national in-service neurological examination has continued to increase. Our core neurology rotation for the third year medical students has been well received and has stimulated several students to pursue neurological careers.

The number of patients admitted to the epilepsy monitoring unit at USA Knollwood Park Hospital has increased. This is a considerable financial resource, provides an important component to our residency educational program, and is pivotal to sustaining our epilepsy research base.
Major thrusts of the department are to increase the number of outpatients evaluated, to continue procuring outside research funding, to increase supplementation of faculty salaries from research dollars and to increase the scholarly activities through peer-reviewed publications.

In conclusion, our department has made considerable improvements, including diversification, and markedly increased research activities and funding. The department provides excellence in teaching and neurological care.
2004-2005
Summary of Scholarly Activities
Department of Neurosurgery

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS
   A. Full length published articles
   B. Articles in press

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 converted to an electronic medical record. This was a large undertaking including the incorporation of 3000 past medical records converted to electronic format. The new electronic health record has allowed the Department instant access to patient information 24 hours a day. In addition, patients may register with the Department using web-based patient registration.

Dr. Kent Sauter left the department for private practice in Tennessee. In his new practice he will concentrate on elective spine surgery.

Dr. Anthony Martino joined the department in January. Dr. Martino has a special interest in pediatric neurosurgery and will develop that subspecialty at Children's and Women's hospital. In addition he has taken over the department's participation in Children's Rehabilitative Services for the state of Alabama.

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.
2004-2005
Summary of Scholarly Activities
Department of Obstetrics and Gynecology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in Press

Altermatt C. Educational survey of senior medical students attitudes before and after a required 4th year rotation. Forthcoming.


II. PUBLISHED ABSTRACTS


Flood-Shaffer K, Johnson-Rubio A, Benson E, Rodriguez E, Porter K, Bradshaw N, Prien S. Early outcomes from the West Texas Early Pregnancy and Chlamydia project. 132nd Annual Meeting of the American Public Health Association; 2004 Nov; Washington, DC.


Griffin K, Porter K, Sheikh AU. Antacid induced hypercalcemia in a 28 week gestation pregnancy. ACOG District VII/District VIII Annual District Meeting; 2005; San Antonio, TX.


Rizk B. Somatic cell nuclear transfer. 19th International Annual Scientific Meeting. Current Concepts & Advancements in Obstetrics & Gynecology, Alexandria University, Faculty of Medicine, Department of OB/GYN; 2005 May 5-6; Alexandria, Egypt.
Rizk B. Novel medical management for endometriosis. 19th International Annual Scientific Meeting. Current Concepts & Advancements in Obstetrics & Gynecology, Alexandria University, Faculty of Medicine, Department of OB/GYN; 2005 May 5-6; Alexandria, Egypt.


Sheikh AU, Seres D. Ability of sonographic estimation of large abdominal circumference to predict maternal and neonatal complications in a gestational diabetic population. 50th Annual Meeting of The American Institute of Ultrasound in Medicine; 2005; Orlando, FL.

Sheikh AU, Seres D. Comparison of actual versus estimated head and abdominal measurements in a gestational diabetic population. 50th Annual Meeting of the American Institute of Ultrasound in Medicine; 2005; Orlando, FL.

III. BOOKS PUBLISHED


IV. PRESENTATIONS

Altermatt CM. The OB/GYN role in weight/obesity concerns. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Angell NF. Urban legends in OB/GYN: Evidenced based medicine meets what we already “Know”. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8, Mobile, AL.

Baker SL. Advances in preterm labor. Paper presented at: Mobile Infirmary Hospital Grand Rounds; 2004 Nov 15; Mobile, AL.

Brown R. Ultrasound in the GYN patient. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Hogan WL. Appropriate use of HPV-DNA testing. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Lynn SC. Urogynecology concerns for women. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Owens SA. Chronic pelvic pain. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Porter KB. First trimester screening in contrast with second trimester screening. Paper presented at: University of Louisville School of Medicine Silas Starr Lectureship; 2004 Oct 25; Louisville, KY.

Porter KB. Diabetes management. Paper presented at: University of Louisville School of Medicine Grand Rounds; 2005 Oct 26; Louisville, KY.

Porter KB. Alloimmunization management and the changes that are occurring. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.

Rizk BM. Novel medical treatments for endometriosis. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.


Sheikh AU. Integration of genetic evaluation into obstetrics and gynecology. Paper presented at: 14th Annual CE Conference in Obstetrics and Gynecology; 2005 Apr 7-8; Mobile, AL.
V. NATIONAL PROFESSIONAL RECOGNITION

Kathy B. Porter, M.D. completed her term as Treasurer for the national organization, Society for Executive Leadership in Academic Medicine (SELAM) in June. Dr. Porter again served as an Oral Board Examiner for the American Board of Obstetrics and Gynecology, Inc.

Botros Rizk, M.D. served as Chairman of the International Committee for American Society for Reproductive Medicine.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Obstetrics and Gynecology has continued to emphasize excellence in clinical OB/GYN, education of house staff and medical students, collaborative and independent clinical research, and the development of the academic faculty. Each division and program within the department has compiled a report of its own achievements. In total, these efforts and accomplishments have proved instrumental in enhancing the health, well-being and overall quality of life of women along the Gulf Coast, within the State of Alabama, and throughout the nation.

The Department once again sponsored a very successful CME program this academic year. The 14th Annual Continuing Education Conference in Obstetrics and Gynecology, held at the Mobile Convention Center in Mobile, and it was widely supported and attended by physicians and nurses from a large geographic area. The total number of registrants was 185.

Dr. Christen Yohn Altomatt continues as Clerkship Director for the department. She was a guest speaker at Odyssey Program for retired people, she is a physician preceptor to BEAR program, and Introduction to Clinical Medicine for 2nd year medical students. She integrated Women’s Health into all 4 years of medical School from a System approach and she began Physicians Executive MBA Program at Auburn University in August 2005. She is a member of the Alabama Baby Coalition and Mobile’s Fetal and Infant Mortality Task Force.

Dr. Norman Angell serves on the GME Committee, Surgery Committee, Pediatrics and Neonatology Committee, Medication Committee, Reprocessing Committee and Special Care Committee.
Dr. Eniola Fagbongbe, who joined the department on February 1, 2005 received the APGO CREOG Excellence in Teaching Award, June 2005.

Dr. Sherwood C. Lynn, Jr. serves on the Cancer Committee and the Rape Crisis Advisory Board. He is a Liaison with the Center for Choice.

Dr. Sheri Owens served on the Radiology Committee and interviews potential medical students for the Admissions Committee. Dr. Owens is the Assistant Clerkship Director for the department.

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. University and hospital committees include, OB/GYN Committee, Medical Executive Committee, CWH OB/GYN Performance Improvement Committee, Graduate Medical Education, FCAPE, CME, Faculty Senate and Research Advisory Committee. She is a reviewer for Journal of Obstetrics and Gynecology.

Dr. Botros Rizk has been a Guest Speaker at the Egyptian Fertility Society 10th Annual Meeting in Cairo, 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, he served on the International Scientific Advisory Committee of the 13th World congress on In Vitro Fertilization. He has been an Ad hoc reviewer for ten 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.

Dr. Craig Sherman was voted Best OB/GYN teaching faculty by the COM class of 2006, he was voted faculty member with “most meaningful input into their medical education” COM class of 2005. Dr. Sherman serves on the Faculty Senate, the Salary and Fringe Benefit Committee for the Faculty Senate, He is Assistant Program Director for OB/GYN and Physician Advisor for USACW Hospital Utilization Review. He is the chair of the OB/GYN Department for Children’s and Women’s Hospital.
Dr. Asad Sheikh joined the Department on August 1, 2004. He heads up the Division of Maternal Fetal Medicine. Dr. Sheikh is the Medical Director for OB/GYN in the Evaluation Center of USACW. He also serves on the following committees: Medication Use Committee, Code Committee, Special Care Committee, OB/GYN Committee, Performance Improvement Committee, Search Committee for Chief of Cardiology. He has also participated in establishment and review of guidelines for inpatient and outpatient obstetric care. He is also the chair of the Fetal Infant Mortality Review for Mobile County and the Vice-Chair for the Regional Perinatal Committee. Dr. Sheikh has enhanced service and education through his leadership in developing Obstetric ICU Services at Children’s and Women’s Hospital. Together with other faculty Dr. Sheikh has enhanced OB/GYN resident training in the areas of fetal heart rate interpretations, as well as pediatric, emergency room and ICU medicine. Dr. Sheikh has also taught in the second year medical student genetics course. He was credentialed by the Fetal Medicine Foundation to perform first trimester prenatal screening.

Dr. Steven Varner received a Fellowship sponsored by Berlex for Junior Faculty Development, Washington State, July 2005. He serves on the following committees; OB/GYN PI Committee, Medical Executive Committee for USAMC and USACW, Radiology Committee for USACW, the Admissions Committee, Ethics Committee, SPEC Committee and Credentialing Committee.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


Nimityongskul P. Idiopathic scoliosis: mid-term results of surgical treatment at the University of South Alabama. Program Book - 54th Annual Meeting of the Alabama Orthopaedic Society; 2005 May 7; Point Clear, AL. p. 27.


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Edmiston T, Nimityongskul P. Intramedullary nailing of femoral shaft fractures in children less than five years old. 2nd Place Paper Award in Chestley L. Yelton Resident Essay Competition presented at: The 54th Annual Meeting of the Alabama Orthopaedic Society; 2005 May 8; Point Clear, AL.

Howard C, Kisner C, Moss N, Nimityongskul P. Safety of pedicle screw insertion with the assistance of spinal cord monitoring. Paper presented at: The 54th Annual Meeting of the Alabama Orthopaedic Society; 2005 May 7; Point Clear, AL.


Madanagopal S. Calcaneal fractures. Paper presented at: The Southeastern Orthopaedic Foot Club Annual Meeting; 2005 May 5; Point Clear, AL.


Nimityongskul P. Idiopathic scoliosis: mid-term results of surgical treatment at the University of South Alabama. Paper presented at: The 54th Annual Meeting of the Alabama Orthopaedic Society; 2005 May 7; Point Clear, AL.

Patterson J, Little R, Madanagopal S, Nimityongskul P. Retrospective review to evaluate the incidence of premature physeal closure in distal tibial Salter-Harris Type I and II physeal injuries. 3rd Place Paper Award in Chestley L. Yelton Resident Essay Competition presented at: The 54th Annual Meeting of the Alabama Orthopaedic Society; 2005 May 8; Point Clear, AL.


Pearsall A. Treatment options for tibiotalar arthritis. Paper presented at: The 16th Annual Southeastern Orthopaedic Foot Club Meeting; 2005 May 5; Point Clear, AL.

Pearsall A. Use of allograft in mosaicplasty in the treatment of tibiotalar arthritis. Paper presented at: The University of Kentucky Orthopaedic Surgery Grand Rounds; 2005 Jun 3; Louisville, KY.


V. NATIONAL PROFESSIONAL RECOGNITION


Prasit Nimityongakul. President – Alabama Orthopaedic Society.


VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Orthopaedics had no change in the number of faculty during the past year. Faculty and staff have become totally acclimated to our new facility at the Kollwood Hospital Complex and efforts have focused on providing excellence in health care to Mobile and the surrounding region. Toward this goal, the Department of Orthopaedics received the USA Physicians Group Excellence in Customer Service Award on March 4, 2005.

Academic accomplishments include the publication of seven full-length articles in the medical literature and seven articles which have been accepted for publication. The Department sponsored the 16th Annual Southeastern Orthopaedic Foot Club Meeting in Point Clear, Alabama on May 5, 2005. Dr. Frederick Meyer served as chairman and moderator for this annual CME conference whose audience includes orthopaedic surgeons, physicians, and allied health professionals from the Alabama, Florida, Louisiana and Mississippi areas.

Dr. Meyer was appointed Associate Dean for the Faculty Practice with a direct reporting relationship to the President of the University. In this position, he serves as supervisor of the physicians who belong to the Health Services Foundation and all matters regarding the faculty practice. In addition, Dr. Meyer was appointed to the Board of Directors of the Clinical Orthopaedic Society, one of the most prestigious clinical organizations in Orthopaedics. Dr. Meyer also serves as a member of the Business and Practice Management Committee of the American Academy of Orthopaedic Surgeons and recently had an article accepted for publication on contract evaluation.
Dr. Prasit Nimityongskul served as President of the Alabama Orthopaedic Society for 2004-2005. In this role, he presided over the annual meeting which was held in Point Clear, Alabama on May 6-8, 2005. Additional activities included Dr. Nimityongskul’s attendance at the Governmental Affairs Conference in Washington, DC sponsored by the Medical Association of the State of Alabama. Dr. Nimityongskul’s agenda included meetings with Alabama’s Congressional Delegation and a Legislative Conference Political Updates/Issues briefing.

Dr. Albert Pearsall was inducted as a Fellow for the American Academy of Orthopaedic Surgeons Leadership Fellows Program. This is a one-year program designed to facilitate the development of future AAOS leaders. The LFP identifies future leaders from the younger members of AAOS who have previous volunteer or leadership experience and prepares them to assume roles of responsibility within the AAOS.

Under the direction and sponsorship of Dr. Sudhakar Madanagopal, USA College of Medicine medical student, Rhianna Little, received the First Place Award for her poster presentation at the Summer Research Program for USA Medical Students.

The residency training program in Orthopaedic Surgery continues to prepare residents for successful outcomes. Both residents who completed our Program in 2003-2004 passed the first of two examinations leading to certification by the American Board of Orthopaedic Surgery. The two graduating residents of 2004-2005 have accepted positions in specialized orthopaedic surgery training at prestigious fellowship training programs. Dr. Ginger Bryant will continue specialty training in Orthopaedic Trauma at Harborview Medical Center in Seattle, WA and Dr. Christopher Jarrett will receive training in Adult Reconstruction at the Hospital for Special Surgery in New York City. Each year, the Alabama Orthopaedic Society conducts the Chestley L. Yelton Essay Competition in conjunction with the AOS Annual Meeting. In the 2005 competition, USA residents Todd Edmiston, M.D., and Jared Patterson, M.D., placed second and third, respectively.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


II. PUBLISHED ABSTRACTS


Cain K, Carter E. Bacterial endocarditis due to Erysipelothrix rhusiopathiae. 105th General Meeting of American Society for Microbiology 2005 Jun 5-9; Atlanta, GA.

Carter E, Cain K, Rutland B. Chromobacterium violaceum cellulitis and sepsis following marine trauma. American Society for Microbiology 2005 Jun 5-9; Atlanta, GA.


Evans TN, Carter E. Neisseria sicca meningitis following intracerebral hemorrhage and ventriculostomy tube placement. American Society for Microbiology 2005 Jun 5-9; Atlanta, GA.


Shevde LA, Samant RS, Paik J, Chambers AF, Frost AR, Welch DR. Decreased osteopontin expression by RNA interference suppresses tumorigenicity of human metastatic breast carcinoma cells. 10th Internal Congress of the Metastasis Research Society 2004 Sep 17-20; Genoa, Italy.
III. BOOKS PUBLISHED

IV. PRESENTATIONS

Carter E; Rutland B; Cain K. Chromobacterium violaceum cellulitis and sepsis following marine trauma. Paper presented at: American Society for Microbiology; 2005 Jun 5-9; Atlanta, GA.

Oliveri C; Amato A; Chernova T; Green WK; Polski JM. Unusual presentation of chronic myelogenous leukemia concomitant with mycobacterium avium complex infection. Paper presented at: The American Society of Hematology 46th Annual Meeting; 2004 Dec 4-7; San Diego, CA.

Polski JM. Flow cytometric evaluation of coexpression of CD5 and CD10 in lymph nodes and lymphoid tumors. Poster presented at: Annual Meeting of the United States and Canadian Academy of Pathology; 2005 Feb 26- Mar 4; San Antonio, TX.

Polski JM; Dunphy CH; Paydas S; Ergin M; Baslamisli F; Ataga KI. Association of bone marrow necrosis with bone necrosis in benign bone marrow diseases. Platform presentation presented at: Annual Meeting of the Association of Clinical Scientists; 2005 May 11-15; Troy, MI.

Rodriguez J; Massey C; Boudreaux, C.W. Increased long term survival in tricuspid atresia: a case report and review of the literature. Poster presented at: Southern Medical Association Annual Meeting; 2005 Nov 10-13; San Antonio, TX.

Rodriguez JR; Roveda KP; Polski JM. Peripheral T-cell lymphoma, unspecified, arising in the nasal cavity: a case report. Paper presented at: College of American Pathologists; 2005 Sep 11; Chicago, IL.


Rutland BM; Horenstein MG. Hypomelanosis of Ito associated with precocious puberty. Paper presented at: American Society of Dermatopathology; 2004 Oct 14-17; Boston, MA.


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V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Allan Tucker, Louise Lenoir Locke Professor and Chair, was elected Secretary of the History of Pathology Society. He is past president of the Society for Ultrastructural Pathology, and serves as associate editor (for North and South America) of the journal *Ultrastructural Pathology*, with the American office of that journal located in the department. He is an executive council member of the Association of Directors of Anatomic and Surgical Pathology, and serves as the chair of that group’s Advisory Committee on Practice Management. He also serves on the Practice and Management Committee of the Association of Pathology Chairs. He was selected for membership on the Economic Affairs Committee of the College of American Pathologist. He served on the Education Committee of the United States and Canadian Academy of Pathology, and is an Ambassador for that group as well as a member of the F. Stephen Vogel Award Committee. 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 two NIH subcontracts, one with Rockefeller University on Beta-3 integrins in platelet and vaso-occlusive disorders and one with Emory University on allogeneic chimerism in murine sickle cell disease. She is also a collaborator in research involving a model of acute chest syndrome in transgenic sickle cell mice with an investigator at the Heart, Lung, and Blood Institute of the National Institutes of Health, and is involved with research on acute chest syndrome and sickle cell disease with Children’s Hospital at Oakland as well as a study of secondary hemochromatosis in thalassemia and sickle cell disease with that institution. She remains director of the Centralized Pathology Unit for Sickle Cell Disease and director of the Alabama Placenta Registry.

Dr. Judy King serves as a councilor for Alabama for the Southern Medical Association. In that group, she is also a member of the Coordinating Committee on Education, the Coordinating Committee on Long Range Planning, and the Advisory Committee on Grants and Scholarships. In the Southern Medical Association, she is also co-chair of the Advisory Committee on New Physicians and the Advisory Committee on Scientific Activities. She was elected president of the Southeastern Microscopy Society. She maintains a very active research effort, and serves as a co-investigator on two NIH grants and as a consultant and collaborator on four additional NIH grants.
Dr. Jacek Polski was selected to membership on the editorial board of the *Annuals of Clinical and Laboratory Science*.

Dr. Leroy Riddick serves as a member of the Scientific Advisory Board of the Armed Forces Institute of Pathology.

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

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

Dr. Lalita Samant received a travel award from the Susan G. Komen Breast Cancer Foundation to attend the 10th International Congress of the Metastasis Research Society in Genoa, Italy, to present some of her research work.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

As is often the case in an academic department, this year saw many changes in the faculty and residency.

After 23 years of service in the department, Dr. Cynthia Donnell retired. She was particularly well known for her contributions in education and service. She was, of course, also known for her delightful personality.

After enjoying years of excellent academic success and providing outstanding service in dermatopathology, Dr. Marcelo Horenstein left for a community practice position in New Jersey.

After completing her fellowship in surgical pathology, Dr. Ozlem Ulusarac accepted a position at the VA Medical Center in Kansas City.

Dr. Song Wong, Professor Emeritus of Pathology, had returned to provide additional service in the Alabama Department of Forensic Sciences, and he also generously lent his expertise in Neuropathology. He also retired this year from those additional duties following his original retirement.
In keeping with the progression of her research work in the Center for Lung Biology, Dr. Judy King moved her primary appointment to the Department of Pharmacology, but she retains a secondary appointment in the Department of Pathology.

In the residency program, four residents moved on to outstanding fellowships. Dr. Arsalan Ahmed joined Baylor University for a hematopathology fellowship, Dr. Tom Hitchcock moved to the Medical University of South Carolina for a cytopathology fellowship, Dr. Cecilia Oliveri joined the University of South Florida for a surgical pathology fellowship, and Dr. John Webster joined the University of Alabama at Birmingham for a cytopathology fellowship. The department welcomed four new residents to the department: Dr. Steve Carlson, Dr. Allison Hunt, Dr. Suzanne Martin, Dr. Zhuang Zuo.

Three faculty members joined the department. Dr. Karen Kelley joined the Alabama Department of Forensic Sciences. She is an outstanding cardiac pathologist as well as a forensic pathologist, and has provided considerable help already in interpretation of cardiac disease. After completing his fellowship in forensic pathology in Texas, Dr. Gene Hart rejoined the department with an appointment in the Alabama Department of Forensic Sciences. Also, after completing a comprehensive national search, the department welcomed Jeffrey Sosnowski, M.D., Ph.D., to the department. Dr. Sosnowski completed his medical school and residency at the University of Louisville, and completed a two year neuropahtology fellowship with Dr. Peter Burger at Johns Hopkins. He is providing expert neuropathology service for neuropathology surgical pathology specimens, autopsy specimens, muscle biopsies, and nerve biopsies, and has already begun receiving outreach work. He is also serving as an attending on the autopsy service and in general surgical pathology.

Dr. Carole Boudreaux, Dr. Elliot Carter, and Dr. Jacek Polski completed a rigorous review process, and each was promoted to the rank of associate professor.

The pathology laboratory medicine course under the direction of Dr. Cynthia Donnell and Dr. Elliot Carter, received the best basic science course award for the eighth year, Dr. Elliot Carter and Dr. Allan Tucker were nominated for Best Basic Science Professor, and Dr. Carter, Donnell, and Tucker received the Red Sash Award from the department. The William A. Gardner, Jr. Pathology Award was presented at Honors Convocation to an outstanding student, Suzanne Martin. The Betsy D. Bennett Award for Outstanding Teaching in the second year small groups was presented to Dr. Tara Evans. The Faculty Recognition Award for outstanding housestaff teaching was presented to Dr. Jacek Polski. Ms. Freda McDonald received the award from the housestaff as the outstanding staff member contributing to their educational experience.
2004-2005
Summary of Scholarly Activities
Department of Pediatrics

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. **Articles in press**


### II. **PUBLISHED ABSTRACTS**


**Bhowmick SK, Blair-Elortegui JV, Walker KD.** Weight management clinic for children and adolescents at the University of South Alabama Children’s and Women’s Hospital in Mobile, Alabama. Proceedings of the NACHRI/N.A.C.H. Spring Conference; 2005 Mar 13-16; New Orleans, LA.


III. BOOKS PUBLISHED


IV. PRESENTATIONS

Bar-on M; Trim M; Baldwin C; Kittredge D; Beach P. Operationalizing program planning: a CQI model. Paper presented at: Association of Pediatric Program Directors Annual Meeting; 2005 May 13; Washington, DC.

Bhowmick SK. Hyperlipidemia case studies. Paper presented at: Poarch Band of Creek Indians; 2004 Nov 9; Atmore, AL.

Bhowmick SK. Endocrine dysfunction with gingival fibromatosis. Paper presented at: Annual Pediatric Endocrine Society Meeting; 2004 Nov 14; Atlanta, GA.

Bhowmick SK; Vidal RA; Dasari G. Neonatal tetany leading to the diagnosis of maternal hyperparathyroidism. Paper presented at: Southern Section American Federation for Medical Research; 2005 Feb 24; New Orleans, LA.

Bhowmick SK. Evaluation and management of Type II diabetes mellitus in the Indian youth population. Paper presented at: Poarch Band of Creek Indians; 2005 Jan 6; Atmore, AL.

Bhowmick SK. Obesity and type II diabetes mellitus in American Indian children and adolescents. Paper presented at: Poarch Band of Creek Indians; 2005 Mar 1; Atmore, AL.

Bhowmick SK. Merits of establishing a weight management clinic on the reservation. Paper presented at: Poarch Band of Creek Indians; 2005 Mar 1; Atmore, AL.
Bhowmick SK. Risks of early atherosclerosis in the obese American Indian population. Paper presented at: Poarch Band of Creek Indians; 2005 Apr 13; Atmore, AL.

Chung AM. Update on Pediatrics. Paper presented at: Preceptors Certification Meeting for Pharmacists Association of Mobile County; 2004 Oct 7; Mobile, AL.


Chung AM. Moderator. Tales from the front: doing the right thing in the workplace. Presented at: American College of Clinical Pharmacy Annual Meeting; 2004 Oct 26; Dallas, TX.

Chung AM. Facilitator. The role of the education and training PRN in the student network. Presented at: American Association of Colleges of Pharmacy Spring Meeting; 2005 Apr 12; Myrtle Beach, SC.

Chung AM; Mancao M; Miller T. A pharmacist-managed medication adherence program to improve antiretroviral therapy adherence and clinical outcomes in HIV/AIDS infected adults and children. Paper presented at: American Association of Colleges of Pharmacy Spring Meeting; 2005 Apr 10-13; Myrtle Beach, SC.


Clement LT. Diagnosis and treatment of asthma in children. Paper presented at: The CA Department of Health Services and the County of Los Angeles Children’s Medical Services; 2004 Jun 22; Los Angeles, CA.

Clement LT. Diagnosis and treatment of asthma in children. Paper presented at: The CA Department of Health Services and the County of Los Angeles Children’s Medical Services; 2004 Jun 23; Pasadena, CA.

Clement LT. Diagnosis and treatment of asthma in children. Paper presented at: The CA Department of Health Services and the County of Los Angeles Children’s Medical Services; 2004 Jun 24; Torrance, CA.
Clement LT. Database management in the breathmobile program. Paper presented at: Division of Allergy, LAC+USC Medical Center; 2004 Nov 19; Los Angeles, CA.


Estrada B. Bacterial infections in pediatrics part I. Paper presented at: Louisiana State University, Annual Pediatric Board Review Course; 2004 Aug 23; New Orleans, LA.

Estrada B. Bacterial infections in pediatrics part II. Paper presented at: Louisiana State University, Annual Pediatric Board Review Course; 2004 Aug 23; New Orleans, LA.

Eyal FG. Very low birthweight infants: neurological outcomes. Paper presented at: Current Trends in Neonatal, Pediatric and Perinatal Care; 2004 Sep 9; Mobile, AL.

Falkos S. Pediatric poisonings and ingestions. Paper presented at: Thomas Hospital; 2004 Nov 5; Fairhope, AL.


Howell D; Blair-Elortegui J. The pre-pharmacy student with more than a rash. Paper presented at: Society of General Internal Medicine; 2005 May 13; New Orleans, LA.

Kittredge D; Baldwin C; Bar-on M; Beach P; Trimm F. Using on-line tools to build competency-based curriculum documents. Paper presented at: Teaching and Evaluating Competencies in Clinical Medical Education/Workshop; 2005 Mar 4; Boston, MA.
Kittridge D; Baldwin C; Bar-on M; Beach P; Trim M. Using the APA educational guidelines for pediatric residency to plan effective evaluation systems. Paper presented at: Pediatric Academic Societies/Ambulatory Pediatric Association Annual Meeting; 2005 May 14; Washington, DC.


Rettig KR. Diabetic ketoacidosis. Paper presented at: Mobile Pediatric Society Meeting; 2004 Nov 4; Mobile, AL.

Trim M; Bar-on M. 360-degree evaluations. Paper presented at: Teaching and Evaluating Competencies in Clinical Medical Education/Workshop; 2005 Mar 5; Boston, MA.

Vidal R. Supraventricular tachycardia in newborns. Paper presented at: D.W. McMillan Memorial Hospital; 2005 Jan 4; Brewton, AL.


Vidal R. Supraventricular tachycardia in newborns. Paper presented at: Singing River Hospital; 2005 Mar 10; Pascagoula, MS.

Vidal R. Diabetic ketoacidosis in pediatric patients. Paper presented at: Springhill Memorial Hospital; 2005 Mar 23; Mobile, AL.

Vidal R. Inpatient management of asthma. Paper presented at: Seventh Annual Asthma, Allergy & Immunology Fingerlaes Medical Conference; 2005 Apr 2; Ithaca, NY.


Wilson F. Newborn screening, intro to thalassemia and intro to genetics. Paper presented at: Sickle Cell Disease Association of America Counselor Certification Course; 2004 Nov 10; Mobile, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

Surendra Baliga served as a Reviewer for *Nutrition Research*.

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

Amy Billings served as President of the Mobile Pediatric Society.


LaDonna Crews served as a Reviewer for *Clinical Pediatrics* and *Journal of Pediatric Gastroenterology*.

Karen Crissinger served as a Reviewer for *Clinical Pediatrics*.

Benjamin Estrada was awarded continuation of the Mitchell Clinical Scholar’s Program in 2005. Dr. Estrada is a member of the Scientific Advisory Council of the Society for Clinical Pediatrics. He continues to serve as Head of the Medical Staff at USA Children’s and Women’s Hospital and as the Institutional Representative for the Executive Council of the Southern Society for Pediatric Research. He serves on the Editorial Board of *Pediatric Infectious Diseases Forum* and *Infections in Medicine*. He is a Reviewer for *Clinical Pediatrics, Annuals of Epidemiology, Pediatric Infectious Diseases Journal, Infections in Medicine* and *Medscape General Medicine*.

Fabien Eyal continues to serve on the Alabama Chapter, American Academy of Pediatrics Committee on the Fetus and Newborn. He also served as a Reviewer for *Journal of Maternal-Fetal and Neonatal Medicine* and *Journal of Perinatology*.

Charles Hamm continues to serve on the State Perinatal Advisory Council and as a Reviewer for *Clinical Pediatrics*.

Mary Mancao again served on the Alabama Department of Public Health Sexually Transmitted Disease Medical Advisory Council. She is a member of The Expert Panel of the Governor of Alabama’s HIV Commission.

Keith Peevy continues to serve as a member of the Alabama Chapter of the American Academy of Pediatrics Fetus and Newborn Committee and the American Academy of Pediatrics Subspecialty Section on Neonatal-Perinatal Medicine.
Kenneth Rettig served as a Reviewer for *Clinical Pediatrics*.

R. Franklin Trimm served on the Project Team for revision of the Ambulatory Pediatric Association’s Educational Guidelines for Residency Training in General Pediatrics. He continues to serve as a Reviewer for the *Journal of Pediatrics, Clinical Pediatrics* and *Journal of Developmental & Behavioral Pediatrics*.

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

Felicia Wilson was appointed by Governor Riley to 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. Dr. Wilson was selected as one of “America’s Top Pediatricians” 2004-2005 by Consumer’s Research Council of America with inclusion in “Guide to America’s Top Pediatricians” 2004-2005 edition.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Pediatrics welcomed several new faculty members in 2005. Dr. Gautam Malkani joined the Division of Critical Care Medicine, and Dr. Kathie Savells accepted a position in the Division of General Pediatrics.

The following Pediatric Faculty members were recognized by the COM students as Distinguished Faculty Members at the 2005 Honors Convocation: Drs. Samar Bhownick, Amy Billings, Judy Blair-Elortegui, Macharia Carter, Karen Crissinger, Benjamin Estrada, Mary Mancio, Kenneth Rettig, Franklin Trimm, and Felicia Wilson. The eleventh recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics during the Pediatric Clerkship was Paul B. Lamb.

Eight of the graduating medical students chose residencies in pediatrics or combined medicine/pediatrics. Of the pediatric residents completing residency this year, one started work at USA Children’s and Women’s Hospital Evaluation Center, three started fellowship programs, and one entered private practice. Our one medicine/pediatric resident completing residency joined USA Knollwood Physicians Group. On July 1, 2005, nine first-year residents entered the pediatric residency program, and two first-year residents entered the combined medicine/pediatrics residency program. Dr. Macharia Carter completed her duties as Pediatric Chief Resident, and Dr. Michael Strickland assumed Chief Resident duties.

The 2005 Children’s Miracle Network was very successful, raising over $641,500 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 31 original articles published or in press, one book and 13 published abstracts by faculty members of the department.

The department has established a new program, the Center for Chronic Diseases in Children, during the past year. The activities of this center will be focused on designing and implementing new approaches for comprehensive healthcare delivery to children who suffer from diseases such as diabetes, developmental or behavioral disorders, obesity, and other chronic conditions. Clinic facilities designed to meet the complex needs of these children and their families are nearing completion. The Center will also seek to serve as a focal point for coordinating and consolidating other university or community programs dealing with these problems.

A number of major goals have been established for the coming year. These include: 1) Ongoing development of computer applications that integrate and improve patient care activities, patient education practices, and clinical data collection. 2) Developing an outreach program for the care and education of children with asthma. Efforts to establish a partnership with other programs that comprise a national network for the study and development of improved asthma treatment practices are also planned. 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.
2004 - 2005
Summary of Scholarly Activities
Department of Pharmacology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


B. Articles in press

Al-Mehdi AB, Schaphorst KA, Stevens T. Lung endothelial cell heterogeneity and the microvasculature. Microvascular Res. Forthcoming.

Bailey SW, Ayling JE. Food and vitamin preparations containing the natural isomer of reduced folates. Canadian patent application 2,243,981. Forthcoming.


II. PUBLISHED ABSTRACTS

Al-Mehdi AB, Patel M. Effect of flow-adaptation on mitochondrial protein expression and biogenesis in pulmonary artery endothelial cells. ATS 100th Meeting; 2005 May; San Diego, CA.


Mozaffari MS, Schaffer SW. Candesartan ameliorates the adverse effect of high afterload pressure on myocardial infarct size. J Mol Cell Cardiol 2005; 38, A94.

Reed DJ, Fodstad O, Al-Mehdi AB. PO2 and adenosine dependent cancer cell migration during intravasation. AACR 96th Meeting; 2005 May; Anaheim, CA.


Ricci CD, Pastukh V, Schaffer SW. Hyperglycemic preconditioning renders the cardiomyocyte resistant to hypoxia. FASEB J 2005; 19:A1212;A683.2.


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Ayling JE. An acute decrease in plasma total homocysteine promoted specifically by a single dose of 5-methyl-6(S)-tetrahydrofolate. Paper presented at: 5th International Conference on Homocysteine Metabolism; 2005 Jun 29; Milan, Italy.


Ayling JE. Pharmacokinetics in humans of metafolin compared to folic acid. Web presentation at: Merck-Eprova; 2005 Mar 22; Schaffhausen, Switzerland.

Ayling JE. Pharmacokinetics in humans of metafolin compared to folic acid. Web presentation at: PamLab; 2005 Jan 10; Covington, LA.

Ayling JE. Pharmacokinetics of oral folic acid compared to 5-methyl-6(S)-tetrahydrofolate in human plasma. Paper presented at: Experimental Biology; 2005 Apr 3; San Diego, CA.
Avling JE. The slow and highly variable activation of folic acid by humans: the metabofolin advantage. Web presentation at: Wyeth; 2005 Sep 12; Madison, NJ.

Avling JE. Urinary folate excretion after oral doses of folic acid or 5-methyl-6(S)-tetrahydrofolate in humans. Paper presented at: Experimental Biology; 2005 Apr 3; San Diego, CA.


Strada SJ. A personal perspective on pharmacology in the 21st century: What do students need to know? Paper presented at: The 2005 Williams Memorial Lectureship University of South Florida College of Medicine; 2005 Mar 3; Tampa, FL.

V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Abu-Bakr Al-Mehdi serves on the American Heart Association Southeast and Ohio Affiliate grant review panel.

Dr. Michael Chinkers is a reviewer for the Journal of Biological Chemistry, Neuroscience, Endocrinology and Biochemistry. He also serves on the American Heart Association peer review study group on basic cell and molecular biology. He was the invited speaker University of Rochester Center for Environmental Health, Rochester, NY April 2005 and to the American Thoracic Society International Conference, San Diego, CA 2005.

Dr. Jack Olson reviews manuscripts for Microvascular Research, and American Journal Physiology Lung.

Dr. Songwei Wu review manuscripts for Microvascular Research.

Dr. Stephen Schaffer is a section editor of Amino Acids, and serves on the editorial board of Molecular and Cellular Biochemistry. He also was on the program committee for the 15th Taurine meeting in Tampere, Finland.

Dr. Troy Stevens was the invited speaker to several seminars: Distinguished Scientist Seminar Speaker, University of Rochester, Northwestern University, University of Illinois at Chicago, and University of Texas Health Sciences Center at Houston. He also spoke at Experimental Biology and American Thoracic Society. Dr. Stevens has served as a member of the Respiratory Integrative Biology and Translational Research study section Center for Scientific Review NIH 2003-present, the Special Emphasis Panel, HIV and Pulmonary Hypertension, NIH, Courand & Comroe Award Application Review, American Heart Association, and Giles Filley Award Application Review, American Physiological Society. He serves on the American Thoracic Society, Pulmonary Circulation Assembly Planning Committee, and Long-Range Planning Committee and is the Chair of Program Committee. He is also on the American Physiological Society Program Committee, Respiration Section, and a member of the American Heart Association Cardiopulmonary and Critical Care Council.

VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS

Dr. June Ayling received a MerckEpova/PamLab 2005 grant for “Metabolic Effects of 6(S)-5-Methyltetrahydrofolate $190,000 total awarded and a NSF-EPSCoR grant 2005-2008 PI of USA component of the Alabama Structural Biology Consortium $175,000 total awarded.

Dr. Mark Gillespie received five year funding from NIH, for grant entitled: “Lung cell genomic threats from physiological signaling”. $1,250,000 total awarded.

The Department of Pharmacology had two graduate students receive their Ph.D., in 2004-2005. Dr. Jeffrey Breit received his Ph.D. in October 2004. His dissertation was entitled “Sequence and Transcription Factor Defined Topology of the VEGF Promoter and Implications in Gene Regulation.” Dr. Mark N. Gillespie was his major professor. Also Dr. Tina Hubler received her Ph.D. in March 2005. Her dissertation was entitled “Organization and Differential Expression of the Human FKBP52 and FKBP51 Genes.” Dr. Jonathan Scammell was her major professor.

The Department of Pharmacology hosted visits by several distinguished scientists: Drs. Dipak K. Das (University of Connecticut School of Medicine), Peter Davies (University of Pennsylvania), Balaraman Kalyanaraman (Medical College of Wisconsin).
2004-2005
Summary of Scholarly Activities
Department of Physiology

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles


Downey JM, Cohen MV. We think we see a pattern emerging here. Circulation 2005 Jan 18;111(2):120-1.


Yang XM, Philipp S, Downey JM, Cohen MV. Postconditioning's protection is not dependent on circulating blood factors or cells but involves adenosine receptors and requires PI3-kinase and guanylyl cyclase activation. Basic Res Cardiol 2005 Jan;100(1):57-63.


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B.  **Articles in press**


*Solenkova NV, Solodushko V, Cohen MV, Downey JM*. Endogenous adenosine protects the preconditioned heart during the early minutes of reperfusion by activating Akt. Am J Physiol Heart Circ Physiol.


Lincoln TM. PKG regulation of smooth muscle gene expression. Paper presented at: Molecular Cardiology Restrarrat, Tufts Medical Center; 2005 Sep 28-30; Woods Hole, MA.


Parker JC; Yoshikawa S; Miyahara T; Reynolds SD; Stripp BR; Anghelescu M; Eyal FG. Clara cell secretory protein and phospholipase A2 activity modulate acute ventilator induced lung injury in mice. Paper presented at: 4th Gulf Coast Physiological Society Meeting 2005 Mar 18-19; New Orleans, LA.

Philipp S; Cui L; Cohen MV; Downey JM. Prolyl hydroxylase inhibitors protect the heart by inducing mitochondrial ROS generation via no, CGMP, PKG, and mitoKATP. Paper presented at: International Society for Heart Research, American Section, Annual Meeting; 2005 May 12-15; New Orleans, LA.

Philipp S; Cui L; Solodushko V; Cohen MV; Downey JM. Activation of erk is essential for opening MitoKATP channels by G1 protein-coupled receptors. Paper presented at: 4th Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Philipp S; Cui L; Solodushko V; Cohen MV; Downey JM. Activation of erk is essential for opening MitoKATP channels by G1 protein-coupled receptors. Paper presented at: International Society for Heart Research, European Section, Annual Meeting; 2005 Jun 22-25; Tromsø, Norway.
Philipp S; Downey JM; Cohen MV. Postconditioning must be initiated in less than 1 minute following reperfusion and is dependent on adenosine receptors and PI3-kinase. Paper presented at: American Heart Association Scientific Sessions; 2004 Nov 6-10; New Orleans, LA.

Philipp S; Yang XM; Willenbrock R; Downey JM; Cohen MV. Postconditioning must be initiated in less than 1 minute following reperfusion and is dependent on adenosine 2b receptors and PI3-kinase. Paper presented at: German Cardiological Society Meeting; 2005 Apr 2-5; Mannheim, Germany.

Sellak H; Choi CS; Lincoln TM. Mechanism of cGMP-dependent protein kinase regulation at the post-transcriptional level. Paper presented at: 4th Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Sellak H; Choi CS; Browner N; Lincoln TM. Upstream transcription factors (USF 1 / 2) upregulate cGMP-dependent protein kinase gene in vascular smooth muscle cells. Paper presented at: 4th Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Solenkova N; Cohen MV; Downey JM. PI3 kinase supports the preconditioned heart through a critical convalescent period. Paper presented at: International Society for Heart Research, American Section, Annual Meeting; 2005 May 12-15; New Orleans, LA.

Solenkova N; Cohen MV; Downey JM. Ischemic preconditioning protects the heart through adenosine receptor activation during reperfusion. Paper presented at: International Society for Heart Research, American Section, Annual Meeting; 2005 May 12-15; New Orleans, LA.

Solenkova NV; Solodushko V; Cohen MV; Downey JM. Ischemic preconditioning protects the heart through adenosine receptor activation during reperfusion. Paper presented at: 4th Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Taylor MS; Bond CT; Adelammn JP. Role of endothelial SK3 channels in flow-mediated arterial dilation. Paper presented at 4th Annual Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Townsley MJ. Graduate school and careers in science. Paper presented at: BMD 110 Lecture, Department of Biomedical Sciences, University of South Alabama; 2005 Oct 22; Mobile, AL.
Townsley ML. Summarizer of poster sessions. Presented at: Grover Conference on the Pulmonary Circulation; 2004 Sep 9-12; Sedalia, CO.


Yang J. SREBPs-Activators of cholesterol and fatty acid synthesis in liver. Seminar presented by :Morehouse School of Medicine/Cardiovascular Research Institute; 2005 Mar 1; Atlanta, GA.

Yang XM; Downey JM; Cohen MV. Postconditioning’s protection is not dependent on circulating blood factors or cells but requires PI3-kinase and guanylyl cyclase activation. Paper presented at: American Heart Association Scientific Sessions; 2004 Nov 6-10; New Orleans, LA.

Yang XM; Downey JM; Cohen MV. Atrial natriuretic peptide (ANP) at reperfusion limits infarction in rabbit hearts by activation of PKG and opening of mK\textsubscript{ATP} channels. Paper presented at: 4th Gulf Coast Physiological Society Meeting; 2005 Mar 18-19; New Orleans, LA.

Yang XM; Downey JM; Cohen MV. Atrial natriuretic peptide (ANP) at reperfusion limits infarction in rabbit hearts by activation of PKG and opening of mK\textsubscript{ATP} channels. Paper presented at: International Society for Heart Research, American Section, Annual Meeting; 2005 May 12-15; New Orleans, LA.

V. NATIONAL PROFESSIONAL RECOGNITION

Stephen T. Ballard served in the following capacities: Member - American Physiological Society, European Cystic Fibrosis Society, American Association for the Advancement of Science; Reviewer - American Journal of Physiology: Lung, Cellular and Molecular Physiology; Journal of General Physiology; American Journal of Respiratory, and Cell and Molecular Biology.

Michael V. Cohen served in the following capacities: Editorial Board of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine; Abstract grader for the American Heart Association Scientific Sessions. Symposium moderator: 2004 Scientific Sessions of the American Heart Association and 10\textsuperscript{th} International Symposium on Adenosine, Cardioprotection and its Clinical Application.
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*; Abstract grader for the American Heart Association Scientific Sessions. Past-President of the International Society for Heart Research, an international organization with over 3,000 members worldwide. Presented with the Manchester College Alumni Award for Distinguished Service (June 2005).

Thomas M. Lincoln served in the following capacities: Member: American Society for Biochemistry and Molecular Biology; American Society for Pharmacology and Experimental Therapeutics; American Association for the Advancement of Science; Southeastern Pharmacology Society; American Heart Association: Council on Basic Sciences; American Society for Gene Therapy; and The Oxygen Society. Served on as 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.


Mark S. Taylor served in the following capacities: Member: American Physiological Society, American Heart Association. Reviewer: *American Journal of Physiology (Heart and Circulatory Physiology)*. Co-coordinator, 2005 Gulf Coast Physiological Meeting, New Orleans, LA.


VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Physiology congratulates Dr. Qining Qin and Dr. Diego Alvarez who successfully defended their dissertation research and received their Ph.D. degrees in Basic Medical Sciences under the mentorship of Physiology faculty in 2004-05. Dr. Qin studied with Dr. Jim Downey while Dr. Alvarez worked with Dr. Mary Townsley. Also, Dr. Natasha Browner completed her dissertation work in 2004 with Dr. Tom Lincoln receiving her Ph.D. in Pharmacology from the University of Alabama at Birmingham. All three former students of Physiology faculty are now in postdoctoral training. The Department of Physiology also welcomes two second-year Basic Medical Sciences (BMS) graduate students, Ms. Christi Knowles and Ms. Felicia Moyer, who are currently working with faculty in the Department of Physiology. Faculty from the Department of Physiology participated in the Summer Medical Student Research Program with Drs. Lincoln and Mark Taylor sponsoring medical student projects, while Drs. Steve Ballard and Mary Townsley sponsored Summer Undergraduate Research through the Honors Research Program.

Extramural research funding increased in the Department of Physiology. Drs. Lincoln and Townsley were each awarded new National Institutes of Health (NIH) R01 grants this past year. Dr. Lincoln's award is entitled “Control of Vascular Smooth Muscle Phenotype by Cyclic GMP” and is a 5-year award from the NHLBI. Dr. Townley’s grant is entitled “TRPV4 in the Regulation of Lung Endothelial Permeability” and is a 4-year award from the NHLBI. 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.
The faculty in the Department of Physiology continue to serve in high visibility positions in the scientific community. Dr. Downey completed his term as President of the International Society for Heart Research (ISHR), and presided over the ISHR World Congress meeting held in Australia in 2004. Dr. Townsley continues her leadership role with the National and Southern-Ohio Valley consortium of the American Heart Association. She will also serve as the Guest Editor for an upcoming issue of the journal Microcirculation. Dr. Michael Cohen served as Symposium Moderator for the 2004 Scientific Sessions of the American Heart Association. All faculty in the Department of Physiology continue to be invited to deliver lectures at national and international meetings as well as various institutions both domestically and internationally. 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 2005-2006.

With regard to teaching and training activities, Dr. Lincoln directed the “Fundamentals of Basic Medical Sciences” course and “Advanced Signal Transduction” course for 2004-05. Dr. Townsley was 2005 Course Director for “Statistics and Experimental Design in Biomedical Research,” and Dr. Mark Taylor assumed the role of Course Director of “Literature Reports” for first-year graduate students in 2005. Dr. Townsley is also the Principal Investigator for the NIH Institutional Training Grant in Lung Biology. Dr. David Weber has taken the lead for directing the Cell Signaling Seminar Series for 2005-06, a forum for BMS students, postdoctoral fellows and faculty to present their on-going research activities. The Department also held a one-day Teaching Retreat in September 2004 at the Brookley campus to continue to evaluate and improve the Medical Physiology course. Dr. Steve Ballard assumed the Course Directorship of the Medical Physiology course for 2004-05, and led discussions involving the course.

Dr. Cohen will direct the small group/case studies component of the course while Drs. Downey, Cohen, Jim 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 2005.

Dr. Townsley was appointed Assistant Dean for Faculty Affairs in the College of Medicine. In this new capacity, Dr. Townsley has instituted a mock NIH peer-review session for individuals planning new grant submissions. The first mock peer-review session was held in 2004 and was attended by a large number of faculty and fellows.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in Press

II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

Cepeda ML. Developmental disabilities and pharmacological management of aggression. Paper presented at: Alabama Association for Behavioral Analysis Annual Meeting; 2004 Nov 16-18; Birmingham, AL.

V. NATIONAL PROFESSIONAL RECOGNITION

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

While the full-time faculty has shrunk to 3, volunteer and part-time faculty members have become more active in the teaching mission.

Solidification and expansion of affiliations with community psychiatric services, especially the Mobile Mental Health Center and the Mobile Infirmary Medical Center, have improved the medical student and resident educational opportunities.

Departmental research efforts have continued to follow established paths. Dr. Rich is pursuing his scholarly work in suicidology. Dr. Manuel Cepeda is still investigating underlying mechanisms of attention processing in Attention-Deficit/Hyperactivity Disorder in school children. Dr. Croake continues his collaboration with colleagues in Seattle on factors influencing fear in adults and children.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles

Brogdon BG. Letter to the editor. RSNA News 2004; 14:3.


B. Articles in press


Mestayer R, Attaway KC, Polchow TN, Brogdon BG. On the AJR viewbox: snooping around the adolescent pelvis: good grief, it’s the brief! AJR. Forthcoming.

II. PUBLISHED ABSTRACTS


Kaminski JM, Summers JB, Khothsymmong RR, Yang C, Kaminski RJ, Brousal JP. Evanescent wave biosensor; incorporation of a third moiety. 5th International Conference on Biological Physics 2004; Abstract A03-124.


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III. BOOKS PUBLISHED

IV. PRESENTATIONS

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 Vortopsy Foundation, Berne Switzerland; Chairman, Research Committee, Forensic Sciences Foundation; Member, Board of Trustees, Forensic Sciences Foundation and Member, Editorial Board, Journal of Forensic Sciences.

Maria S. Figarola was appointed AMA Representative to the American University of Radiologists and selected to "Guide to America's Top Physicians" 2004-2005 Edition published by the Consumers' Research Council of America.

Donald E. Herbert is a member of the Editorial Boards: *Technology and Health Care and International Journal of Health Care Engineering*. He is an Associate Editor for *Medical Physics Journal* and a Reviewer for the *American Journal of Roentgenology*. Dr. Herbert is a member of Task group 8 "Volumetric Tissue Response Models in Radiation Therapy" of the AAPM Therapy Physics Workgroup on Bioeffects. He serves as Chairs for Task Group 5 "The Design of Experiments in Radiation Biology" of the AAPM Therapy Physics Workgroup on Bioeffects and Task Group 7 "Complexity Theory" of the AAPM Therapy Physics Workgroup on Bioeffects. Dr. Herbert is on the Research Advisory Committee for the American Institute of Physics Statistical Research Advisory Committee. He served as a member from January through June 2005 of the Organizing Committee of the 7th International Conference on Dose, Time and Fractionation in Radiation Oncology.

Allan E. Green, Jr. served as Treasurer of the Southern Radiologic Conference for 2005 and was voted Teacher of the Year by the residents.

Stephen 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. Dr Teplick is Secretary of the American College of Radiology - Alabama Academy of Radiology, and also serves as a Councilor. Dr. Teplick serves on the University Faculty Senate and Chairs the Subcommittee of Salaries and Fringe Benefits.
He also serves on the Executive Committee of the University Faculty Senate and was recently appointed to the Faculty and Administration Compensation Committee.

VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS

New Faculty Members for the Department are: Paul Jackson ("Jack") Anderson, M.D., John P. Brannan, M.D., Ronald E. Gray, M.D., Samuel A. McQuiston, M.D. and M. Carolyn Wilson, M.D.

We have expanded our outside business contracts during the 2005 year to include several new Teleradiology rural hospital sites including Atmore Community Hospital in Atmore Alabama, Lakeview Community Hospital in Eufaula, Alabama, Riverview Regional Medical Center in Gadsden, Alabama, Troy Regional Medical Center in Troy, Alabama, Washington County Infirmary in Chatom, Alabama, and North Baldwin Infirmary in Bay Minette, Alabama. In addition our scope of Teleradiology has grown to include the Veteran’s Administration Hospitals in Little Rock, Arkansas and Muskogee, Oklahoma. We continue to provide teleradiology coverage for ten community hospitals, Eglin AFB, and three Veterans Administration Hospitals.
2004-2005
Summary of Scholarly Activities
Department of Surgery

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press


Gonzalez RP, Cummings G, Rodning C. Increased mortality associated with rural vehicular trauma: identifying contributing factors through date linkage and analysis; national highway traffic safety administration technical report. Forthcoming.


Green WK, Aikens TM, Grover EF, Luterman A, Ramsey KM. Environmental contamination as a reservoir for an outbreak of methicillin-resistant staphylococcus aureus (MRSA) in a burn unit. Forthcoming.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS


Gonzalez RP. Diagnosis of abdominal. Paper presented at: American Association of Critical Care Nurses; 2004 Nov; Mobile, AL.

Gonzalez RP. Increased mortality in rural vehicular trauma. Paper presented at: Eastern Association for Surgery of Trauma; 2005 Jan; Palm Springs, FL.

Gonzalez RP. IVC filter bedside placement. Paper presented at: Southeast Surgical Congress; 2005 Feb; New Orleans, LA.

Hammond KL; Ellis CN. Impact of referral of patients with a pelvic floor related colorectal diagnosis to a multispecialty pelvic floor clinic. Paper presented at: American Society of Colon and Rectal Surgeons Meeting; 2005 May 4; Philadelphia PA.

Hammond KL; Ellis CN. Outcomes after trans-anal repair of rectoceles. Paper presented at: American Society of Colon and Rectal Surgeons Meeting; 2005 May 3; Philadelphia PA.


Luterman A. Burn and wound care in the new millenium. Paper presented at: Alabama Chapter of the American College of Surgeons 2004 Conference; 2004 Jun 11; Point Clear, AL.

Luterman A. Burns. Paper presented at: Alabama Emergency Nursing Association Education Conference; 2004 May 22; Orange Beach, AL.

Luterman A. Nutritional and pharmacological approaches to wound care (2004 educational satellite presentations). Presented at: 17th Annual Symposium on Advanced Wound Care, 14th Annual Medical Research Forum on wound Repair; 2004; Orlando FL.

Luterman A. Optimizing the management of traumatic injuries. Paper presented at: South Central Regional Medical Center Trauma Symposium (Management of Burn Injuries); 2004 Jun 18; Laurel, MS.


Rodning CB. Increased mortality in rural vehicular trauma: identifying contributing factors through data linkage. Paper presented at: Annual Meeting, Eastern Association for the Surgery of Trauma; 2004 Jan 12-17; Amelia Island, FL.

Rodning CB. Synopses of presentation-from-platform. Paper presented at: 52nd Annual Meeting of the Alabama Chapter of the American College of Surgeons; 2004 Jun 10-12; Point Clear, AL.


Scantlebury VP. Outcomes after minority transplantation, where are we? Paper presented at: American Society of Multicultural Health and Transplant Professionals Annual Meeting; 2004 Oct 29; Biloxi, MS.

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, and Surgical Endoscopy. He also serves on the following committees: Program Committee of the American Society of Colon, Rectal Surgeons, Standards Committee of the American Society of Colon and Rectal Surgeons, Quality Assessment and Safety Committee of the American Society of Colon and Rectal Surgeons, and the Membership 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.

Joseph LoCicero, 3d serves on the FDA Panel on Plastic and General Surgical Devices. He is a member of the Editorial Board of Chest and Annals of Thoracic Surgery. He is Chairman of the Workforce on Aging for the Society of Thoracic Surgeons and an At Large Representative for Surgical Subspecialties, Surgery Section of the American Geriatrics Society.

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, 3d has membership in the Eastern Association for the Surgery of Trauma (EAST), and the Association for Academic Surgery (AAS).


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; 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.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Department of Surgery continues to grow in the mission of the University: Teaching, Research and Service. This year, a number of our surgeons received the Red Sash Award from the graduating class of the College of Medicine. They include Charles Rodning, M.D., Arnold Luterman, M.D., Karen Frye, M.D., Juvonda Hodge, M.D., and Joseph LoCicero, III, M.D. Also this year, Dr. Frye was the invited speaker at the Alpha Omega Alpha annual dinner.

The Department is fortunate to have the services of C. Neal Ellis, MD, Moustafa Hassan, M.D., and Herbert A. Phelan, III, M.D. who have all been wonderful additions to the faculty. We have lost the services of Michael Fuenfer, M.D. and John Boullier, M.D. The Department is working on the recruitment of Pediatric surgeons, Plastic surgeons, Otolaryngologists and Urologists.

Teaching
The 80 hour work week and ACGME duty hour regulations are firmly in place. This has improved the time residents have to read but continues to challenge all to be the best residents they can be. The practice oral examination remains a big hit with the residents and will be held twice this coming academic year. Unfortunately, the company that helped us with the practice ABSITE exams is no longer in business. We are busily working on creating our own.

This year, the Department hosted L. D. Britt, MD, Professor and Chairman of Surgery at the University of East Virginia as the Emmett B. Frazier lecturer. He discussed the challenges of Trauma and training the next generation of surgeons. In addition to the Emmett B. Frazier lectureship held every year at the Mobile Infirmary Medical Center, Grand Rounds was held twice at Mobile Infirmary Medical Center and twice at Providence Hospital.

Lectures to the third year medical students on Surgical Basic Science were added and the core lectures were directed at providing the student with the fundamental skills in the most common surgical conditions. The students are now responsible for being able to diagnose common surgical conditions, prepare the patients for surgical intervention, discuss options with the patient and family, understand the potential complications and management options for the planned procedure and participate in the perioperative management of the patient.
James Hassell, M.D., Adjunct Associate Professor of Surgery created a new course in medical decision making which was presented to the second year class. The course will again be given in the next academic year.

The Departmental website through the College of Medicine has been in place for a year. Resident call schedules, student and resident conference schedules as well as reading assignments and learning tools are posted there. There is a secure link to an evaluation site allowing the faculty, residents and students to find private information and an avenue to evaluate each other at anytime. Soon, there will be an alumni page with updates on everyone’s activities. This site will be the focal point for the Department allowing all to view our progress. This was used heavily by our new resident recruits to learn more about the program.

Research
The Center for Rural Vehicular Trauma received a continuation of funding. As the Medical Center prepares for national certification as a Level One Trauma Center, this grant will play a prominent role in furthering the research mission of the section of Trauma/Surgical Critical Care.

Clinical studies continue to be a major focus of activity for the Department. This year, seven studies were closed and there are 18 studies open for accrual through the Department of Surgery – an all time record. The Department is a main member institution of the American College of Surgeons Oncology Group, a multi-specialty cancer study cooperative group. We are anticipating opening several new trials including one investigator initiated study here. Dr. Frye will be studying the pharmacokinetics of an antibiotic in the burn patient population.

Service
The Section of Trauma/Surgical Critical Care expects to apply for national recognition as an ACS designated Level One Trauma Center. This will include national certification of our well known Regional Burn Center.

The Gulf Coast Transplant Unit continues to grow under the direction of Dr. Velma Scantlebury. The service has performed 28 successful transplants in the last year including several living donor transplants. Dr. Scantlebury is increasing her efforts toward community outreach.

The Critical Care Family Assistance Program, started with a grant to Dr. LoCicero from the Chest foundation, is a multidisciplinary program which includes hospital renovation and newly refocused efforts on the part of the staff to ease the fears of families holding vigils for their sick loved ones.

The clinical offices were moved into renovated space at the Knollwood campus. The department had an increase in clinical activity at the Medical Center and Knollwood Hospital over last year. With the addition of new faculty, the future looks quite bright for the department.
2004-2005
Summary of Activities
Biomedical Library

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles

Fell DW, Burnham JF. Access is key: teaching students and physical therapists to
access evidence, expert opinion and patient values for evidence-based practice. J

Li J, Runderson RA, Burnham JF, Staggs GB, Robertson JC, Williams TL.
Delivering distance education training to rural health care professionals. Med Ref
Serv Q 2005 Spring;24(1): 41-54.

Robertson J. The librarian’s role as information technology educator at the
University of South Alabama. In: A guide to developing end-user education

Summers JB, Staggs GB. Librarians can help verify references. Ala Libr

B. Articles in press

Clanton CC, Staggs GB, Williams TW. Evaluating a chat reference service at the
University of South Alabama’s Baugh Biomedical Library. Public Serv Q

Hsu K, Sylvestre J, Saved EN. Enterprise resource planning: risks and remedies.
Journal of Corporate Accounting and Finance. Forthcoming.

Li J, Saved EN, Robertson J. Evaluating drug databases: the librarian’s perspective.

Sylvestre J, Saved EN. Share-base payment: an international perspective. Journal
of Corporate Accounting and Finance. Forthcoming.

Williams T, Lindsay J, Burnham J. Online vs print journals: do academic medical
libraries still have a choice? JERML, J Electronic Resour Libr 2006;3(1).
Forthcoming.
II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

Burnham J. Surfing the net for medical information: is it quality or quack? Paper presented at: Post-Polio Group; 2005 May 28; Mobile, AL.

Burnham J; Robertson J. Beyond academia: medical librarians bringing information technology to the practicing physician. Paper presented at: Southern Chapter of the Medical Library Association Annual Meeting; 2004 Oct 23; Biloxi, MS.

Clanton C. Digital library resources (MerckMedicus.com). Presentation at: Staff continuing education program, Providence Physicians Group; 2004 Dec 16; Semmes, AL.

Clanton C. PDA’s and PDA resources. Cyber Café presentation at: Medical Association of the State of Alabama 144th Annual Session; 2005 July1-2; San Destin, FL.

Clanton C. Business resources available through the Alabama Virtual Library. Presented at: Small Business Development Center, Mitchell College of Business; 2005 Mar 3, 16, 22; Mobile, AL.

Clanton C; Staggs GB. Ace in the hole: using virtual reference chat transcripts to improve public services. Poster presented at: Southern Chapter of the Medical Library Association Annual Meeting; 2004 Oct 21-25; Biloxi, MS.

Clanton C; Sayed E. Regina Benjamin, MD: serving the underserved poor in Alabama’s Gulf Coast. Poster presented at: Medical Library Association Annual Meeting; May 2005 14-19; San Antonio, TX.

Clanton C; Sayed E; Staggs GB. Mining virtual chat reference transcripts: tapping into a wealth of data about user population and satisfaction, online reference service quality, and resource usage. Poster presented at: Medical Library Association Annual Meeting; 2005 May 14-19; San Antonio, TX.

Fell DW; Burnham J. Update your practice with ease: how to locate and obtain articles, books & internet sites to support evidence-based practice. Paper presented at: Alabama Physical Therapy Association; 2005 Apr 22; Orange Beach, FL.
Li J; Wu W; Lindsay JM. Henry Norman Bethune; innovative surgeon, vigorous advocate of democratic medical services, and international humanitarian. Poster presented at: MLA Annual Meeting; 2005 May 16-17; San Antonio, TX.

Lindsay JM. Taking the next step online: the 21st century book sale. Poster presented at: Southern Chapter/MLA; 2004 Oct 23; Biloxi, MS.

Robertson J. Using the Internet in your practice. Presented at: 25th Annual Meeting of the Medical Association of the State of Alabama (MASA); 2005 Jun 29; San Destin, FL.

Robertson J. The librarian's role as information technology educator. Paper presented at: Southern Chapter/MLA Annual Meeting; 2004 Oct 24; Biloxi, MS.

Robertson J. Searching the world wide web. Paper presented at: Baldwin County Library Cooperative Staff Development Day; 2005 May 20; Foley, AL.

Robertson J; Vucovich L. Alabama go local initiative. Panel discussion and paper presented at: Medical Library Association Annual Meeting; 2005 May 18; San Antonio, TX.

V. NATIONAL PROFESSIONAL RECOGNITION

Clista Clanton and Geneva Staggs won the 2004 3rd Place Research Poster Award at the Southern Chapter/Medical Library Association Annual Meeting for: Clanton C and Staggs G. Ace in the hole: Using virtual reference chat transcripts to improve public services. Clista serves as co-editor of Southern Expressions for the Southern Chapter of the Medical Library Association and as a member of the Chapter's Executive Committee. Clista is on the Program Committee for the Southern Chapter of the Medical Library Association's 2005 annual meeting and is responsible for coordinating the paper sessions.

Ellen Sayed was elected Chair-Designate of the MLA Publications Committee. She serves as editor of the MLA/International Cooperation Section Newsletter. Ellen is Chair of the MLA Cunningham International Fellowship Itinerary Committee. For the State of Alabama, Ellen serves as Chair of the Handbook and Bylaws Committee of the Alabama Health Sciences Library Association. She also serves on NAAL's Resource Sharing Committee and the Education Committee.

Justin Robertson has been very active in Health InfoNet/Go-Local Project, serving as Project State Administrator, the Advisory Board Committee, the Standards Committee and its Education Committee. Justin is co-editor of Southern Expressions, the newsletter of the Southern Chapter of the Medical Library Association.
Justin is Web Master/Coordinator for several associations including; SC/MLA, the Alabama Health Libraries Association, the MLA International Cooperation Section, as well as this library’s web guru.

J. Michael Lindsay is serving on SC/MLA Public Relations Committee and the ALHeLA Liaison Committee.

Jie Li served on the MLA Task Force on Global Initiatives, 2003-2005. Ms. Li is editor of MLA News International News Column. Jie was Chair of the Committee of Health Library Partnerships of the MLA/International Cooperation Section, 2004–2005 as well as this Section’s Nominating Committee Chair, 2004–2005. She is also Chair of the Bylaws Committee of the SC/MLA.

Judy Burnham served as Chair of the MLA Scholarship Jury 2004–2005. She is also alternate representative to MLA Section council for the MLA Nursing and Allied Health Resource Section, NAHRS. She served as Chair of the SC/MLA Communications Committee and ALHeLA’s Liaison Committee. Judy received a major honor from the profession by receiving one of only five leadership fellowships available from NLM/AAHSL (Association of American Health Science Libraries). These are very prestigious awards which offer leadership training in various parts of the country at different libraries.

Geneva Staggs has been appointed to the Alabama Public Library Service LSTA Council where she will serve through 2006. Geneva served as Chair of the Alabama Health Sciences Library Association(ALHeLA) for 2004-2005 and is the current Chair of the Nominating Committee for that group.

Thomas Williams is currently serving as Chair of the Medical Library Association 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. Tom continues as a member of the MLA/Southern Chapter Executive Committee. In addition, Tom was appointed to the NIH/NLM 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 benefitted from the increase of visibility and national recognition of BML faculty and staff. Budget’s permitting, it is expected that BML employees will continue their success at the local, state, regional, and national levels.

As the year comes to a close, we have just learned that our own Jie Li has been named the Southern Chapter/Medical Library Association’s Academic Medical Librarian of the Year. This is an award given each year to an exceptional librarian in the Region. Jie’s name is automatically put forward from the Chapter for consideration for the National Academic Medical Librarian of the Year.

Additional electronic, full-text journal titles have been added to the library’s title list. We now have approximately 3,500 E journals available full-text online. This brings the total number of titles, print and E, to about 4,500. If we were to include titles held at the University Library, the total would be more in the range of 14,000.

In 2004 the Physicians Lounge at Knollwood Hospital was renovated to make room for a small library. This is more of an “electronic library” in that there are few print materials. There are computers from which users can access all online resources at the libraries, including the University Library. There was part-time staff assistance this year as well.

One major improvement which has been extremely well received was the replacement of our old Xerox, analog, BK35 copy machines. They’ve been replaced with state-of-the-art digital units. Not only can users place items on the unit screens to print, they can also send print jobs from their computers to these units. This is far more efficient (and faster) than the old machines. The new units also have features the others did not, such as sorting, duplexing, stapling, etc.

At this writing another important upgrade is in progress. All public computers in the library (all 4 sites) are being replaced with new ones.

Once again, there was no faculty turnover in BML faculty. For staff, Edda Gilbert, a long-time employee of the University, retired in February. Carolyn Mayes was hired for the position left vacant with the departure to a teaching position of Kathy Glass. Wynde (pronounced Wendy) Griffith was hired into Edda’s position. Both of these positions are in the Circulation Department.
2004-2005
Summary of Scholarly Activities
USA Cancer Research Institute

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. **Articles in press**


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

IV. PRESENTATIONS

Alecio MR; Ferrige AG; Pannell LK. A novel approach for comparing LCMS peptide maps. Paper presented at: American Society for Mass Spectrometry; 2005 Jun 4-9; San Antonio, TX.

Casado B; Yang X; Hess S; Whalel G; Pannell LK; Clauw D; Baraniuk JN. Cerebrospinal fluid proteomics in fibromyalgia/chronic fatigue syndrome, Persian gulf war illness and control groups. Paper presented at: 7th International Conference on Chronic Fatigue Syndrome, Fibromyalgia and Other Related Illnesses; 2004 Oct 8-10; Madison, WI.


Khong HT. Immunization of HLA-A*0201 and/or HLA- DP beta 1*04 patients with metastatic melanoma using epitopes from the NY-ESO-1 antigen. Paper presented at: International Society for Biological Therapy of Cancer; 2004 Nov 4; San Francisco, CA.

Krulla KT; Ruiz J; Fodstad O; Shevde LA; Samant RS; Pannell LK. Identification of cell surface antigens that are characteristic of metastatic melanoma. Paper presented at: American Society for Mass Spectrometry; 2005 Jun 4-9; San Antonio, TX.

Pannell LK; Walp ER; Ruiz JC; Shevde-Samant LA; Samant RS; Fodstad O. Glycomatic – an automated approach to glycan characterization of glycoproteins in cancer. Paper presented at: American Association for Cancer Research; 2005 Apr 16-20; Anaheim, CA.

Pannell LK; McGee DJ; Viator R. Manganese-dependent differential protein expression in Bacillus Anthracis. Paper presented at: American Society for Microbiology Meeting; 2005 Jun 5-9; Atlanta, GA.

Pannell LK; Walp ER; Ruiz JC; Shevde-Samant LA; Samant RS; Fodstad O. An automated approach to the glycan analysis of cell surface proteins implicated in cancer metastasis. Paper presented at: American Society of Clinical Oncology; 2005 May 12-17; Orlando, FL.

Pannell LK; Walp ER; Ruiz J; Nawrocki J. GlycoMatic: an automated approach to glycoprotein detection and characterization. Paper presented at: American Society for Mass Spectrometry; 2005 Jun 4-9; San Antonio, TX.

Mbeunkui F; Fodstad O; Pannell LK. The secretory proteome of aggressive and non-aggressive melanoma cell lines. Paper presented at: American Society for Mass Spectrometry; 2005 June 4-9: San Antonio, TX.

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 and J Experimental Therapeutics and Oncology, Pathology and Oncology Research
Acting Referee for J Natl Cancer Inst, Clinical Cancer Research, Br J Cancer
Eur J Cancer and Int J Cancer Review Manuscripts for Nature Medicine, Cancer Research, Am J Pathology, Breast Cancer Research and Treatment,
J Neurosurgery, Histochemistry, J Melanoma Research
Member, Society for Melanoma Research

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

Philip Wade, American Medical Association
Member, American Society of Clinical Oncology
Member, American Society of Hematology
Member, AOA Medical Honor Society

Hung T. Khong, Ad Hoc Reviewer for Immunological Investigations

Raymond B. Wynn, American College of Radiology
American Society for Therapeutic Radiology and Oncology
Council of Affiliated Regional Radiation Oncology Societies
Louisiana Society of Radiation Oncology
National Medical Association
National Black Leadership Initiative on Cancer - Southern Region
National Surgical Adjuvant Breast and Bowel Project
VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The overarching strategic goal of the USA Cancer Research Institute (USA-CRI) is 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. Recruitment, facilities and equipment planning, and program development activities are all aimed squarely at this strategic goal. FY 2005 activities have focused on recruiting outstanding faculty, creating infrastructure, launching clinical programs, and submitting peer-reviewed grants.

A Cancer Research Institute is rapidly growing while its focus remains centered on its strategic goal to become competitive for NCI designation. In 2000, the USA Board of Trustees established the USA-CRI as its highest priority and most ambitious initiative. In April 2002, Michael Boyd, M.D., Ph.D., was recruited from the National Cancer Institute to lead the Institute as Director. Under his leadership, in 2005, the USA-CRI has achieved the following milestones:

- Grown to a staff of over 60 employees
- Developed a Center for Basic and Translational Science headed by a world-renowned cancer researcher, Oystein Fodstad, M.D., Ph.D. To date, the core group of eight Principal Investigators has secured five peer-reviewed and funded research grants with many additional grants currently pending.
- Recruitment of two new PI's (Germana Rappa, M.D., Ph.D. and Aurelio Lorico, M.D., Ph.D.)
- Opened a Medical Oncology Service on the Knollwood campus headed by an experienced Chief of Service, Philip Wade, M.D.
- Established a Clinical Trials Division and began offering clinical trials.
- Recruited Raymond Wynn, M.D., a nationally recognized leader in cancer health disparities research, to the position of USA-CRI Associate Director and Elsie Colle Chair for Community Outreach, Information and Education. Dr. Wynn, also an experienced radiation oncologist, and the former Director of the Singing River Regional Cancer Center in Pascagoula, MS, will also serve as Chief of Radiation Oncology, USA-CRI.
- Upgraded Radiation Oncology equipment to include acquisition of a state-of-the-art CT simulator.
- Finalized planning of an integrated clinical and research facility to house the USA-CRI. The new USA-CRI facility will provide an unprecedented environment for the training and participation of young clinicians and scientists in cutting-edge, cancer-related research areas such as molecular pathology and diagnostics (proteomics and genomics), cell and immune therapies, metastasis and tumor biology and drug discovery.
2004-2005
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 is available through Ms. 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 Experimental Biology 2005, the 100th International American Thoracic Society and the 96th American Association for Cancer Research meeting. Diego Alvarez, graduate student in the Department of Physiology won the Presidential Student Award from the Microscopy Society of America and a Student Travel Award from the Southeastern Microscopy Society for his presentation at the 2005 Microscopy and Microanalysis meeting.

The CLB hosted two Distinguished Scientist Seminars in March, 2005. Our first guest, Dr. Joe G.N. Garcia, M.D., is David Marine Professor of Medicine in Biomedical Engineering and Environmental Health Science, and Director of Division of Pulmonary and Critical Care Medicine at Johns Hopkins University School of Medicine. Dr. Garcia's presentation was entitled Utility of Lipid Growth Factors in Inflammatory Lung Injury. Our second guest, Dr. Jeanine Wiener-Kronish, is Professor and Vice-Chair of the Department of Anesthesiology and a Cardiovascular Research Institute Investigator at University of California, San Francisco. Her presentation was entitled Acute Pseudomonas Lung Infections: lesions from the ICU.
Extramural Funding

When the CLB was inaugurated in 2002, affiliating investigators generated approximately $5 million annually in extramural support, mostly from the NIH. In the past year, CLB principal investigators have submitted 16 grant applications to the American Cancer Society, American Heart Association, Department of Defense, National Institutes of Health, and the United Mitochondrial Disease Foundation. If funded, these submissions would total over $7.3 million in new revenue over the next five years ($1.4 million/year). In addition to new research initiatives, applications include a shared-instrumentation grant to fund a Leica multiphoton imaging system which would provide high-performance imaging capabilities and greatly facilitate the progress of currently funded NIH projects of CLB investigators.

In the past year, the CLB faculty were awarded nearly $3.3 million in new grants. Dr. Mark Gillespie received a research grant from NIH entitled Lung Cell Genomic Threats from Physiological Signals. These studies could point to new pathways leading to somatic mutation and thus lead to a better understanding of cancer, aging, and other disorders wherein reactive oxygen species are believed to play pathogenic roles. Dr. Mary Townsley also received a research grant from NIH entitled TRPV4 in Regulation of Lung Endothelial Permeability. This grant will provide the first rigorous analysis of compartmentalized TRPV4 channel expression linked to compartmentalized regulation of endothelial permeability in the intact lung.

Art in Science

PERCIPIO™ - The Art in Science Program was developed by Dr. Kathryn Ziel, a former graduate student and postdoctoral fellow in the Department of Pharmacology. The objective of the program is to integrate scientific research performed at USA with the non-scientific community, providing an opportunity for scientists to present aesthetic aspects of their data to the public. The primary purpose of this program is best defined by its title, PERCIPIO, which means “to learn through the senses”.

PERCIPIO kicked off its second annual art exhibition on November 12, 2004 with an opening reception at the Mobile Museum of Art. The 2004 collection entitled “Art Prevails” stayed on display at the museum through January 30, 2005 before moving to the USA Main Library and to “R” Place Bistro and Gallery in Pensacola, Florida. The “Art Prevails” collection showcases selected images of scientific data submitted to the Art in Science Gallery. In addition to the artwork, a short film was designed by film editor Christopher Haber to coincide with the 2004 show.

The CLB Art in Science Program hopes to increase appreciation, interest and understanding of scientific research. Through direct interactions with educational institutions, students will be able to obtain a unique perspective on scientific research that may increase their propensity to choose a career in biomedical research.
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 five students for the Summer Undergraduate Research Fellowship (SURF) program. Students participating in the program and sponsors respectively were Krystel Coole from Auburn University (M. Gillespie), Jonathan Daigle from USA (S. Wu), Sarah Kleinfeld from University of Virginia (J. King), Branson Maynard from USA (B. Fouty), and Thomas Schoultz from Loyola University (M. Gillespie).

CLB faculty played an active role in the 32nd Annual Medical Student Research Day sponsoring two summer medical students. Dr. Solomon Ofori-Acquah served as moderator for oral presentations and Dr. Troy Stevens served as judge for poster presentations. Students participating in the program and sponsors respectively were Justin Daigre (T. Lincoln) and Nick Papajohn (R. Allison).

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 joint Pharmacology Conference Room/CLB Art in Science Gallery (MSB 3360) whereas other Conferences are held in the Eichold Room at the USA Medical Center.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles


B. Articles in press

Hsiao CH, Wei L, Tzu-Fang L, Baliga BS, Pace BS. Fetal hemoglobin induction by histone deacetylase inhibitors involves reactive oxygen species formation. Forthcoming.


II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS


Haynes J. Sickle Cell Pain Crisis: Acute Management in the Hospital Setting Singing River Hospital; 2005 Mar 21; Pascagoula, MS.

Haynes J. Acute Chest Syndrome: Pathophysiology, Diagnosis and Treatment; University of Alabama, 2005 Mar 28; Montgomery, AL.
Dr. Haynes gave a seminar on "Sickle Cell Pain Crisis: Acute Management in the Hospital Setting" at the Singing River Hospital, Pascagoula, MS on March 21, 2005. 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 state and national 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.

Other Activities: Dr. Haynes currently serves as President of the Sickle Cell Oversight and Regulatory Commission for the State of Alabama. Dr. Felicia Wilson has recently been appointed to the Sickle Cell Oversight and Regulatory Commission as a representative from the Sickle Cell Disease Association of America, Mobile Chapter. 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.
2004-2005
Summary of Activities
Center for Healthy Communities

On September 4, 2005, the Center for Healthy Communities (CHC) celebrated its second anniversary. Although only two years old, the Center has become a very effective resource for facilitating research and service activities to address health disparities. In addition to its non-profit management program and health promotion campaigns, the Center designed an EXPORT health disparities initiative that has acquired regional and national recognition. EXPORT startup and program efforts were the primary focus of staff time this past year.

Non-profit Management Program (NPM):
A nonprofit management program was initiated by the CHC to help address policy, management and governance issues in public service and nonprofit organizations. The NPM program was able to implement a needs assessment for its services, provide consultative services for ten community agencies, and partner with the USA College of Continuing Education and Special Programs to initiate a short course training program for community-based non-profit organizations. A non-profit lecture series was also inaugurated with a presentation by Dr. Leon Haley from the University of Pittsburgh, a nationally renowned expert on non-profit management. Dr. Haley discussed his work with the Women and Children Hospital in Pittsburgh.

The Non-profit Management is supported through a $20,000 grant from the USA College of Arts & Sciences.

Health Promotion Campaigns:
The CHC collaborated with the College of Nursing to provide diabetic screenings at a county wide health fair. CHC staff also participated in a variety of informational health fairs at local churches and community-based organizations. This included events sponsored by the 100 Black Men, Athenians Women’s Organization, Bethel AME Church, Antioch Baptist Church, and Mobile AIDS Coalition. The Center is currently working with the Literacy Coalition of South Alabama, National Diabetes Association, American Heart Association, and the City of Prichard to develop health awareness campaigns.

Lay Health Advisors Certificate Program:
The Center has developed an academic Lay Health Advisors Certificate Program in conjunction with the USA College of Continuing Education and Special Programs. The Lay Health Advisors Program, which will admit its first students January 2006, is designed to develop a cohort group of community advocates who work almost exclusively in community settings and serves as connectors between healthcare consumers and providers to promote better health in underserved communities.
These include individuals from churches, barbershops and salons, and community based organizations. CHC is providing a limited number of tuition scholarships for community residents. It will also support graduates of the program by providing them with educational materials and periodic training so that they can better inform community based health discussions.

USA CHC EXPORT Center
The USA EXPORT Center was initiated through a $1.2 million grant from the NIH National Center for Minority and Health Disparities. These grant resources are allowing CHC to support a variety of new program activities to help address health disparities in Mobile. This includes community health assessments, the application of advanced medical technology in an urban setting, an Academic Pipeline for high school students and a mentoring program for junior minority scholars.

The overall goal of the EXPORT Center is to establish a broad-based collaborative effort to address health disparities within the University of South Alabama (USA) service area. In pursuit of this goal, establishing collaborative relationships between the University, health care professionals and minority communities in the inner core of Mobile and adjoining localities was given particular attention in 2004.

Staff Recruitment & Project Management
Initial first year activities involved the recruitment of three new employees to support development of the EXPORT Center. This was necessary in part because of the unexpected departure of the designated project coordinator. Jobs descriptions for the positions of EXPORT Project Coordinator, Health Education Specialist, and Outreach Coordinator were developed by the University Personnel Office and advertised in late December 2004. After an extensive national search, screening and interviewing process, three highly qualified individuals were selected for these positions. Walinda Phiri-Alleman, the Project Manager, began her employment with the EXPORT Center February 16, 2005 and, Hettie Vaughn, Health Education Specialist and Elizabeth Locklin, Outreach Coordinator, joined her on March 1, 2005. In a relatively short period of time, the CHC EXPORT Center has supported and initiated an impressive array of activities that include partnerships and linkages with more than thirty organizations.

Locklin and Vaughn produce weekly activity reports that are reviewed by the program manager. The program manager reports to the core leaders on a weekly basis. Each EXPORT project manager is expected to make monthly reports to Core leaders and coordinate their activities through the EXPORT program manager and appropriate staff. The Core leaders monitor projects and programs in their areas on a regular basis and report to the EXPORT leadership team, which includes: the PI, Co-PI’s, and EXPORT program manager.
Partnerships and Linkages

An extensive array of new partnerships has been developed to help implement health awareness and disparity programs. Joining the Center for Healthy Communities (CHC) in its effort are the USA College of Medicine (USACOM) faculty, USA Medical Center (USAMC), federally funded Community Health Centers, Mobile County Public School System, Mobile Chamber of Commerce, USA Office of Emerging Health Technologies (OEHT), USA College of Education, USA College of Allied Health and a variety of faith-based and community-based organizations. Active partnerships and linkages have been developed with more than 30 organizations that operate within the Mobile and Prichard urban areas. These include healthcare institutions, health professionals, faith-based organizations, schools, governmental organizations, and a variety of civic and community organizations. Linkages have also been developed with 7 programs at other regional colleges and universities, and collaborative activities are under consideration with each institution (See Table 1).

The EXPORT Center and these collaborative partners constitute a formidable infrastructure for implementing programs to address health disparities in the University of South Alabama’s service area. This infrastructure has positioned the CHC EXPORT Center to aggressively move forward with program activities in several targeted communities. Below is a summary of CHC EXPORT activities:
promotion activities, and informative discussions with community leaders and residents. Information dissemination on health and health disparities by the CHC EXPORT Center includes more than twenty presentations.

The Co-PI (Dr. Harvey L. White) met in October with the USA Public Relations Office to develop joint public affairs initiatives. This strategy resulted in the publication of a November 18, 2004 article in the Mobile Register newspaper on the CHC EXPORT award. It has also stimulated extensive coverage of EXPORT Center activities within the University of South Alabama System:

http://www.southalabama.edu/healthycommunities/pressreleases/030705.html
http://www.southalabama.edu/healthycommunities/pressreleases/021005.html
http://www.southalabama.edu/healthycommunities/pressreleases/111704.html

Dr. White has been interviewed and featured on the local NBC news network affiliate discussing health issues among African American men. He was also interviewed and featured in the local minority-owned newspaper (Beacon) concerning his work on health disparities. EXPORT Co-PI, Dr. Martha Arrieta, has been interviewed by the Mobile Register to discuss health disparities and the EXPORT project. She has also participated in the local Cumulus radio station’s Community Awareness Group discussions. The Project Manager, Ms. Walinda Phiri-Alleman, made presentations on the EXPORT Center at the Mobile and Prichard City Councils meetings. She has also made presentations to the Mobile County Public Health Department, Mobile Housing Authority, and a variety of faith-based and community organizations.

The Partnerships and Linkages, HCOP Proposal, Tutoring and Mentoring Initiative, Community Outreach office, and Information Dissemination activities have helped the CHC EXPORT Center become a significant resource to help address health disparities in the USA service area. The CHC EXORT Center will build upon these initiatives in year two and will use them as a base to further expand its efforts to address health disparities.

**CHC EXPORT Web Site:** The CHC EXPORT web site is operated and supported by the Center for Healthy Communities web master. It is updated regularly and is located at the following URL: [http://www.southalabama.edu/healthycommunities/export/](http://www.southalabama.edu/healthycommunities/export/). The website provides information on the CHC EXPORT Center to interested researchers and the general public. This includes an overview on the Center’s core areas and the contact information for designated personnel.

**CHC EXPORT Health Disparities Forum:** The CHC EXPORT Center web page contains a Health Disparities Forum to facilitate discussions among CHC EXPORT investigators, foster collaborations on grant submissions and publications, and to share expertise concerning methodological or analytical issues in minority health research. It is designed as the principal mode of information exchange among CHC EXPORT investigators and staff. It will also be made available to the Health Disparities Research Group (HDRG) that has been organized as a component of the research core.
**Informational Materials:** A general brochure describing EXPORT activities has been developed and is used to inform the community, faculty, staff and students about the CHC EXPORT Center. A separate brochure has also been designed specifically for the Academic Pipeline Program and is being used to recruit high school students for the six-week summer enrichment program. (See Appendix 3)

**Lecture and Conference Presentations:** Dr. H. White and Dr. M. Arrieta have presented a variety of lectures and presentations on health and health disparities related issues. These include:

- “Environmental Justices as a Public Health Issue.” Harvey L. White, Ph.D., Conference of Minority Public Administrators, February 9-13, 2005, Corpus Christi, TX.

- “Broad-based Collaborative to Address Health Disparities.” Harvey L. White, Ph.D., Alabama State Medical Association 2004 Conference, October 15, 2004, Mobile, AL.

- “The Environment and Health Disparities.” Harvey L. White, Ph.D., National Academy of Public Administration Social Equity Panel, February 17-18, 2005, Cleveland, OH.

- “Eliminating Health Disparities.” Martha Arrieta, M.D., Ph.D., USA Research Council, November 2004, Mobile, AL.

**Health Disparity Research Group**

Developing a research infrastructure to pursue critically needed research in the field of health care disparities is also an objective of the EEXPORT Center. The aim is to strengthen the health services/disparities research capacity of faculty affiliated with the USA CHC EXPORT Center. To achieve this outcome a university-wide multidisciplinary team was established to conduct basic, clinical and population-based research on health disparities.

All University deans and department heads were asked to send representatives to a University-wide meeting on health disparities research. Individual faculty members were also invited. More than fifty faculty members responded positively and more than thirty-five individuals attended the first HDRG meeting May 13, 2005. An ambitious agenda has been set for the group, which includes a University-wide research assembly.

**Health Disparities Research Group Assembly**

More than eighty University and community representatives participated in the Health Disparities Research Group Assembly. The assembly included scholarly presentations by renowned medical and social scientist on health disparities and other health care issues facing underserved populations. Presenters included Dr. Lovell Jones, University of Texas M.D. Anderson Cancer Center; Dr. Errol Crook, University of South Alabama Department of Internal Medicine; and Reverend Dr. Moses Goldman, Shaw University.
The assembly also featured a discussion on community-based participatory research by a panel of distinguished University and community representatives.

**Bio Monitoring Pilot Project**
A Bio Monitoring pilot project was developed to test processes and tools for measurement of health status, identification of health problems, and identification of barriers to health care experienced by low income, minority and underserved populations. This project is designed to evaluate the effectiveness of home monitoring as a tool in the management of diabetes, hypertension and congestive heart failure (CHF).

The pilot project is currently being implemented in the targeted communities in collaboration with two federally funded health clinics. Fifteen patients have been identified through Franklin Primary Health Clinic; four have been enrolled and have received the appropriate equipment to start their daily monitoring activities. Procedures are being worked out to also enroll patients from the Mobile County Health Department’s federally funded clinic.

The implementation of another pilot project is expected to begin shortly which will investigate the effectiveness of the local primary health centers in responding to the needs of residents in the targeted communities. The pilot will be initiated in June and continue operating until an adequate sample of patients has been surveyed to produce meaningful data for analysis.

**Church Based Intervention**
A church based intervention is being implemented to evaluate the effectiveness of faith sponsored initiatives to increase physical activity. This multifaceted randomized study includes lectures and formal training to enrollees at 9 African American churches in the Mobile area to evaluate the effectiveness of alternative fitness programs. Currently, 70 participants are enrolled in the study. Two different programs will be implemented in the next arm of the project. The results from the three programs will be evaluated and are expected to provide the foundation for a broader study of church based interventions to increase physical activity.

**Career Pathways for Minority Scientists Program**
A mentoring, training and support program was established to better use USA resources to help develop more highly qualified minority biomedical scientists. This program includes a supportive service component which facilitates linkages among junior researchers and senior scientists to pursue health disparities research.

A consortium agreement has been developed and signed between the University of South Alabama and Talladega College, a prominent HBCU, to facilitate the implementation of the Career Pathways for Minority Scientists (CPMS). The EXPORT Co-PI and the Core leader traveled to Talladega College and met with the Science Division Chair and members of the science faculty to discuss linkages between the two institutions. The specific suggestions for a mentoring and training program emerged from this meeting. These suggestions were used for formalizing a consortium/subcontract to facilitate mentoring and networking for junior science faculty at Talladega College.
Three faculty members from Talladega are participating in the program and two participated in a CPMS Retreat this summer at the University of South Alabama.

Future Plans
The Center’s plans for the next year focus on refining and enhancing the current programs and projects initiated the first year. New activities will include a regional health summit that will be developed collaboratively with the Alabama Public Health Department Office of Minority Health and EXPORT Centers in Alabama and Mississippi. Three new pilot research projects will be initiated, including two that are expected to emanate from the Health Disparities Research Group (HDRG). Innovative ways to bring the latest technology to bear for the elimination of health disparities will also be explored.
2004-2005
Summary of Scholarly Activities
Center for Strategic Health Innovation

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles

B. Articles in press


Owen S. Award cites USA health initiative. Mobile Register 2005 Aug 3; Sect. B: 2 (col.1-3).

II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

IV. PRESENTATIONS

O'Connor LM. PHEICS: it's not your day job, but it might be. Poster presented at: The NACCHO-ASTHO 2005 Joint Conference; 2005 Jul 12 – 15, 2005; Boston, MA.

Taylor CW. Family practice update – a place at the table. The role of physicians in disaster preparedness and response. Paper presented at: 28th Annual North Dakota Academy of Family Physicians; 2005 Jan 16; Big Skies, MT.

Taylor CW. Family practice update – a place at the table part II. The role of physicians in disaster preparedness and response. Paper presented at: 28th Annual North Dakota Academy of Family Physicians; 2005 Jan 17; Big Skies, MT.

Taylor CW. A place at the table for pediatricians in disaster response. Paper presented at: Response Conference: Pediatric Disaster Response Conference; 2005 Mar 8; Birmingham, AL.
Taylor CW. Surge capacity management and the use of tools and technologies in disaster response. Paper presented at: Advanced Regional Response Training Center; 2005 Jun 8, 22, 29, July 20, 27, Aug 3, 10, 17, 24, Sep 28, Oct 5, 12, 26; Mobile, AL.

Taylor CW. On the road from hell-the care to healthcare: how telehealth can save America. Paper presented at: Southern Legislative Conference Site Visit; 2005 Aug 2; Mobile, AL.

Taylor CW. Telemedicine and mental health. Paper presented at: 3rd Annual Wiregrass Mental Health Conference; 2005 Aug 12; Dothan, AL.


Wallace DL. Patient decontamination and hospital personal protective equipment. Paper presented at: Mobile Infirmary Hospital; 2005 Feb 23; Mobile, AL.

Wallace DL. Public health emergency incident command system. Paper presented at: Montana Department of Public Health; 2005 Apr 4-8; Helena, MT.

Wallace DL. Hurricane IVAN hot wash and after action review. Paper presented at: Alabama Department of Public Health; 2005 Apr 11; Montgomery, AL.

Wallace DL. Public health emergency incident command system II. Paper presented at: Montana Department of Public Health; 2005 May 9-12; Helena, MT.

Wallace DL. Public health emergency incident command system. Paper presented at: Mobile County Health Department; 2005 May 18; Mobile, AL.

Wallace DL. Advanced bioterrorism awareness. Paper presented at: Advanced Regional Response Training Center; 2005 Jun 8, 22, 29, July 20, 27, Aug 3, 10, 17, 24, Sep 28, Oct 5, 12, 26; Mobile, AL.

Wallace DL. Regional planning. Paper presented at: Advanced Regional Response Training Center; 2005 Jun 9, 22, 29, 20, 27, Aug 3, 10, 17, 24, Sep 28, Oct 5, 12, 26; Mobile, AL.
V. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

This year was marked by some exciting changes for the department including a move to newly renovated space in the Health Services Building and a name change. In June, the USA Board of Trustees approved our request to be named a Center, and the Office of Emerging Health Technologies (OEHT) become The Center for Strategic Health Innovation (CShI). CShI is composed of four focal points of activity: 1) Telemedicine and videoconferencing; 2) Home health monitoring and contract research; 3) Bioterrorism training and education; and 4) Co-development on informatics based tools and technology. Each of the four focus areas operate under a dual use philosophy, which means while meeting the requirements of the grant, CSHI is also researching broader deployment and use. For example, our AIMS software project not only met the goals of the funding agency, but is also being deployed to hospitals across the state as a daily tool for use in managing the facility. The projects outlined below reflect the broad range of activities covered by CSHI, which has become a recognized leader in creating, testing, defining and articulating the role of communication oriented technologies across multi-disciplinary healthcare platforms. Though our activities are diverse in nature they reflect a common goal 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 of one patient at a time or across populations in time disasters.

Training Programs: CSHI has continued its training mission and successfully competed for and was awarded a competitive bid to the Alabama Department of Public Health, Center for Emergency Preparedness for an Advanced Regional Response Training Center (ARRTC). The award was received in March 2005 and training began in June 2005. The training consists of 3 ½ day sessions bringing hospitals, public health, community health centers, physicians, nurses, and EMS together on a regional basis to discuss their response to any disaster. The goal of the training is to not only provide them with the skills needed to effectively respond, but to also encourage them to build the relationships needed to effect the response. CSHI anticipates training approximately 400 attendees and plans to not only continue but to also expand the training in 2005 – 2006.

OEHT has also continued to develop and deliver PHEICS training, or Public Health Emergency Incident Command System training, to senior management and staff at the Alabama Department of Public Health in Montgomery, Alabama. Using the experience gained in HEICS I and II, OEHT developed and designed “PHEICS” which the Alabama Department of Public Health is adapting for use in public health responses to all hazards events. These principal were applied by Public Health their successful response to the recent hurricanes.

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Technology Development: In 2004 -2005, CSHI has continued the technology development projects initiated last year. This series of statewide training programs and technology development projects were designed to prepare hospitals across the state to respond to a public health disaster or mass casualty event. The overarching goal was to provide the hospitals with a common platform of response, or incident command system, as well as individualized training on site in their facilities, to prepare them to respond effectively in a disaster. The primary technology/software development project is the Alabama Incident Management System (AIMS). AIMS is management information software designed to capture Hospital Emergency Incident Command System (HEICS) reported surge data. Surge capacity management requires knowing 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 will be entered into a database at each hospital and then transmitted and displayed at the local or regional Emergency Operations Centers (EOC) to be used in making emergent decisions. Initially tested at the American Telemedicine Association, AIMS served as the core software managing multiple simulated care and treatment sites during a mock disaster. Subsequently AIMS was revised to meet peer expectations based upon comments by numerous civilian and military participants. AIMS again was tested during hurricane IVAN and proved to be a useful tool for capturing hospital specific data that is critical to decision making during a disaster of any kind. It was then expanded to include a medical needs shelter module and actively deployed during both Hurricane Dennis and Katrina. Eighty-three hospitals and seven Medical Needs Shelters signed on during Katrina, and there were approximately 36,000 hospital entries documented during coverage of the storm.

Planning and Assessments: OEHT also participated in several planning activities to include conducting an after action review, or Hot Wash, of the community response to Hurricane Ivan. In this Hot wash, CSHI gathered input and feedback from critical partners such as public health and hospitals and prepared an assessment of how well we responded. From that review, PHEICS became a critical component in public health response and is used today in responding to disasters. A second project is the Regional Planning activity in which CSHI will host a meeting of hospital CEOs to discuss their response to disasters and the unique challenges that face the hospitals' administration. In addition, CSHI has been funded to develop an Emergency Operations Plan for the Alabama Department of Public Health including a hurricane annex.
**Home Monitoring:** The growth and expansion of the BioTrac home monitoring program has again escalated during this past year. During June of this year, CSHI was named the recipient of the 2005 Innovator Award. The 14 Innovator Award recipients were based in each of the 13 Southern states (including Puerto Rico) and were chosen based on creative approaches to solving problems. In August 2005, the Southern Legislative Conference honored CSHI with its Innovations Award.

CSHI’s BioTrac program was chosen as the top program presented from the 14 programs previously chosen. This award has put the program in the Council of State Government's national spotlight.

This awards program was designed to recognize government initiatives that are creative, effective, significant and transferable to other projects. This was the first time in history that an Alabama program was even chosen as a finalist much less being awarded as top Innovator.

CSHI continues collaborations with the Medicaid Agency in broadening BioTrac services to counties throughout the state. The basis of this program has widened opportunities to develop a more thorough view of a patient’s medical record. Using BioTrac, RMEDE (Representational Medical Environment for Data Exchange) was developed where a patient’s claim data is accessed to create a full view of an individual’s health. This data is made available to the primary care physician offering them a wider view of the patient’s record. These physicians are allowed to view the patient’s history of visits not associated with their practice providing them with better information to more correctly treat the patient.

**Telemedicine:** Last year we reported our emerging relationship with Children’s Rehabilitative Services (CRS) and the successful implementation and design of a working network for consultations. During this year, CRS was active in providing telemedical consults for their disadvantaged patients between the Birmingham and Mobile locations. Bi-weekly consults were regularly conducted between the sites thereby eliminating the need for patients to travel to Birmingham for these clinics. Additionally, HIV consults are conducted between the USA Medical Center and the Baldwin County Health Department located in Robertsdale. These clinics are also held on a bi-weekly basis. Both Children’s Sexual Abuse and psychiatric efforts continue among our remote locations with frequent consultations and expert opinions being provided using the telemedicine network. Many peer review sessions are conducted ensuring the appropriate treatment of patients in these small, remote communities.
Videoconferencing: The spectrum of videoconferencing opportunities offered today through CSHI are numerous with an average of 20 hours of quality healthcare education provided to participating locations on a weekly basis. In 2004-2005, CSHI “sponsored” a total of 794 educational hours for remote locations to participate in. This figure represents a growth of more than 183% over 2004 programs whose total hours sponsored was 434.5. CSHI is using the established videoconferencing network to outreach to other University departments for collaborative efforts to emerge. CSHI has found that educational programs offered through videoconferencing means bring highly valued insight to participating remote communities.

Working through relationships developed within the Alabama Department of Public Health, CSHI hopes to only continue to expand these efforts to potentially a statewide level. In this event, it is anticipated that the USA College of Medicine will be the lead educational resource to rural community practices.

It is our belief that the 2005-2006 year will bring about further growth in specific programs including home monitoring, videoconferencing as well as disaster preparedness. Through these efforts, we will continue to evolve the position of national leadership in each of these areas.
2004-2005
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.

In FY2005, OTD, through SAMSF, generated $561,289 in licensing income and $80,850 in sponsored research funding through 4 new research agreements, resulting in $642,139 total income for the College of Medicine for the fiscal year. SAMSF was reimbursed, either directly or through net expense deduction from licensing income, for 118% of external legal fees. This number exceeds 100% due to the offset between fiscal and calendar years in the billing cycle of certain licensees. One U.S. patent issued on an invention by College of Medicine faculty (Aylng & Bailey).

Further details about the operation of the Office of Technology Development through July 31 of FY2005, and a comparison with the statistics of the previous four fiscal years, are shown in the table below.

<table>
<thead>
<tr>
<th></th>
<th>2001</th>
<th>2002</th>
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<th>2005</th>
<th>CUM TOTAL++</th>
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<td>Legal Reimbursement %</td>
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<td>84%</td>
<td>59%</td>
<td>118%***</td>
<td>64%</td>
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<td>Material Transfers</td>
<td>16</td>
<td>23</td>
<td>10</td>
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<td>138</td>
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++ Cumulative Totals include numbers and any data discernable from 1999 (beginning of OTD) to present, even though all is not shown in the table.

*Licensing Income generated by:
- Natural Folate Technology Licensed to Merck KGaK
- Research materials sold by 3 companies
- Upfront fees for licensing of inventions

**Industrial support provided for:
- Projects and testing agreements with COM faculty researchers

*** This is greater than 100% due only to differences in billing and reimbursement cycles of various law firms and licensees.
Summary of Extramural Support

The record of extramural support is a significant accomplishment of faculty actively engaged in research in the College of Medicine. The principal investigator is listed on the summary report, but many projects involve other faculty as co-investigators on grants, a practice highly encouraged by the administration. Funding for the 2004-2005 academic year includes $37,865,355 and $2,200,514 in awards administered through the University’s Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively. The awards listed reflect only those received funds during this fiscal period, but includes capital improvement funds to support the development of the USA Cancer Research Institute.

Extramural Funds
Totals for Recent Years
1992   $11,563,000
1993   11,223,000
1994   11,859,000
1995   14,272,462
1996   16,507,457
1997   14,981,699
1998   18,338,972
1999   19,108,225
2000   20,431,119
2001   20,723,188
2002   20,734,491
2003   23,244,111
2004   26,935,930
2005   40,065,869

[chart showing College of Medicine: Total Annual Extramural Funding From All Sources]
# EXTRAMURAL FUNDING
**(OCTOBER 1, 2004 – SEPTEMBER 30, 2005)**

## BIOCHEMISTRY AND MOLECULAR BIOLOGY

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<td>Sailen Barik</td>
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<td>Mechanisms of RNA Virus-Host Interaction</td>
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<td>Richard Honkanen</td>
<td>NIH 5 RO1 CA060750-12/12S1</td>
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## BIOMEDICAL LIBRARY

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<td>Jingfang Ju</td>
<td>NIH 1 RO1 MH075026-01</td>
<td>GEBE Expression Analysis of Aplysia Neural Network</td>
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<td>Hong Khong</td>
<td>Cell Genesys</td>
<td>A Phase III Randomized, Open-Label Study of CG1940 and CG8711 Versus Docetaxel and Prednisone in Patients with Metastatic Hormone-Refractory Prostate Cancer who are Chemotherapy-Na&quot;ive</td>
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<td>Lewis Pannell</td>
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<td>Rajeev Samant</td>
<td>SG Komen BCF BCTR 0503488</td>
<td>MRJ: A Molecular Switch for Cell Cycle and Cancer Metastasis</td>
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<td><strong>Total</strong></td>
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<td>Mikhail Alexeyev</td>
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<td>United Mitochondrial Disease Foundation</td>
<td>Mitochondrial Genomes as an Approach to the Reversal of NARP and MILS Syndromes, Heritable Mitochondrial Disorders</td>
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<td>Susan LeDoux</td>
<td>NIH 5 RO1 NS047208-02</td>
<td>Oxidative Stress in Neurons: Role of Mitochondrial DNA</td>
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<td>NIH 5 RO3 TW00704-02</td>
<td>Oxidative Stress in Neurons: Role of Aminochrome</td>
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<td>Solomon Ofori-Acquah</td>
<td>NIH 5RO1 HL077769-02</td>
<td>Role of CD166/ALCAM in Lung Endothelial Barrier Function</td>
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<td>Glenn Wilson</td>
<td>NIH 5 RO1 ES03456-21</td>
<td>Environmental Beta Cell Toxins-Mechanisms of Action</td>
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<td>Carl Taylor</td>
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Total $2,198,514
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<td>Robert Kreisberg</td>
<td>KOS Pharmaceuticals</td>
<td>The Safety and Efficacy of a Combination of Niacin ER and Simvastatin in Patients with Dyslipidemia: A Dose-Ranging Study</td>
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<td>Broad Based Collaboratives to Address Health Disparities</td>
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<td>Samuel Strada</td>
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## COMPARATIVE MEDICINE

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<td>Christian Abee</td>
<td>Baxter Healthcare Corp</td>
<td>Experimental Creutzfeldt-Jakob Disease in the Squirrel Monkey</td>
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<td>Baxter Fenwall</td>
<td>Baxter Fenwall: Innoculation of Red Blood Cells from an Experimental CJD Case</td>
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<td>NIH 2 P40 RR01254-25</td>
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<td>A Squirrel Monkey Breeding and Research Resource</td>
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<td>Breeding Colony of Squirrel Monkeys-Malaria Study</td>
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<td>Alan Brady</td>
<td>Purina Mills LLC</td>
<td>Investigation of Dietary Iron/Hepatic Hemosiderosis in the Squirrel Monkey</td>
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<td>Susan Gibson</td>
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<td>Johnson Haynes</td>
<td>Novartis</td>
<td>A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Multicenter, Multiple Dose (7 days) Dose-ranging Study to Assess the Efficacy and Safety of 4 Doses of QAB149 (50, 100, 200, &amp; 400ug) Delivered Via a Multiple Dose Inhaler and 1 Dose of QAB149 (400ug) Delivered Via a Single Dose Inhaler in Patients with Chronic Obstructive Pulmonary Disease</td>
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<td>Icagen Inc.</td>
<td>A Phase III, Multicenter, 52-Week, Randomized, Double-Blind, Placebo-Controlled Study of the Clinical Efficacy and Safety of ICA-17043 with or without Hydroxyurea Therapy in Patients With Sickle Cell Disease Who Have Had Greater of Equal to Two Acute Sickle-Related Painful Crises within the Preceding 12 Months</td>
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**Total** $ 21,397
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<tr>
<td>Frank Pettyjohn</td>
<td>Boehringer Ingelheim</td>
<td>A Randomized, Double-Blind, Double-Dummy, Placebo-Controlled, Forced Titratin, Comparison of MICARDIS HCT Versus DIOVAN HCT Using Seated Trough Cuff Blood Pressure in Patients with Stage 1 and Stage 2 Hypertension</td>
<td>$11,175</td>
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<td>Novartis Pharma Corp</td>
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<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>
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<td>Alteon Inc.</td>
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<td>Effect of ALT-711 in Combination with Fixed-Dose Hydrochlorothiazide Therapy on Systolic Blood Pressure in Hypertensive Patients</td>
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<td>Astra/IBAH</td>
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<td>A Randomized, Double-Blinded, Placebo-Controlled, Multicenter, Long-Term Efficacy Study Trial of Preventing Hypertension using Candensartan Cilextiel 16mg in Patients with Borderline Hypertension High Normal Blood Pressure</td>
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<td>Frank Pettyjohn</td>
<td>Ortho-McNeil Pharma</td>
<td>A Multicenter, Double-Blind, Randomized Study to Compare the Efficacy and Safety of Levofloxacin 750mg Once Daily for Five Days versus Ciprofloxacin Twice Daily for Ten Days in the Treatment of Complicated Urinary Tract Infection or Acute Pyelonephritis</td>
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<td>AstraZeneca Pharma</td>
<td>A Twenty-four Week Randomized, Double-Blind, Multi-Center, Active Controlled Study to Evaluate the Efficacy, Safety and Tolerability of Tesaglitazar Therapy When Administered to Patients With Type 2 Diabetes</td>
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<td>Sankyo Pharma Inc.</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Factorial Study Evaluating the Efficacy and Safety of Co-Administration of Olmesartan Medosomic Plus Amlodipine Compared to Monotherapy in Patients With Mild to Severe Hypertension</td>
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<td>A 6-Week, Open-Label, Dose Comparison Study to Evaluate the Safety and Efficacy of Rosuvastatin Versus Atorvastatin, Cerivastatin, Pravastatin, and Simvastatin in Subjects With Hypercholesterolemia</td>
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<td>A 6-Week, Randomized, Open-Label, Comparative Study to Evaluate the Efficacy</td>
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<td>and Safety of Rosuvastatin and Atorvastatin in the treatment of Hypercholesterolemia in African American Subjects</td>
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<td>AstraZeneca Pharma</td>
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<td>A 12-Week Randomized, Open-Label, 3-Arm Parallel-Group, Multicenter 1, Phase</td>
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<td>IIIb Study Comparing the Efficacy and Safety of Rosuvastatin Calcium with</td>
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<td>Atorvastatin and Simvastatin Achieving NCEP ATP III LDL-C Goals in High –Risk Subjects with Hypercholesterolemia in the Managed Care Setting</td>
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<td>AstraZeneca Pharma</td>
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<td>A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Phase III Study</td>
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<td>of Rosuvastatin (Crestor) 20mg in the Primary Prevention of Cardiovascular</td>
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<td>Events Among Subjects with Low Levels of LDL-Cholesterol and Elevated Levels</td>
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<td>Strengthening Professionalism in Predoctoral Training</td>
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<td>Resident Curriculum in Rural Family Medicine at USA Family Practice Residency</td>
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<td>Michael Culpepper</td>
<td>Speedel Bio, Ltd.</td>
<td>A Randomized, Multicenter, Open-Label, Parallel Group Study to Assess the Safety of PEG-Hirudin (SPP200) Compared to Unfractionated Heparin as Anticoagulant Treatment in Patients Undergoing Haemodialysis Via an Arteriovenous Graft</td>
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<td>Luitpold Pharma</td>
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<td>Comparison of Safety and Efficacy of Intravenous Iron Versus Oral Iron in Chronic Renal Failure Subjects with Anemia</td>
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<td>Novartis</td>
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<td>A Multicenter, Randomized, Double-Blind, Placebo Controlled, Parallel-Group Study to Evaluate the Effects of Aliskiren on Proteinuria When Added to Standardized Losartan Therapy and Optimal Antihypertensive Therapy in Patients with Hypertension And Type 2 Diabetes Mellitus</td>
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<td>Amgen</td>
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<td>Trial to Reduce Cardiovascular Events with Aranesp Therapy (TREAT)</td>
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<td>An Eight-Week, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Multicenter Study Comparing Aliskiren 150mg 300mg, and 600mg to Placebo in Patients with Mild-to-Moderate Essential Hypertension</td>
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<td>Jack DiPalma</td>
<td>GlaxoSmithKline/Icon</td>
<td>A Twelve Week, Randomized, Double-Blind, Placebo-Controlled, Study of PRN BID and Fixed Dosing Regimens of Alopsetron in Female Subjects with Severe Diarrhea-Predominant IBS who have Failed Conventional Therapy</td>
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<td>Braintree Laboratories</td>
<td>Braintree-Colon Cleansing Comparison</td>
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<td>Brian Fouty</td>
<td>NIH 5 RO1 HL070273-02*</td>
<td>Cell Cycle Regulation of Pulmonary Vascular Remodeling</td>
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<td>Jorge Herrera</td>
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<td>Herrera Chronic Hepatitis Research</td>
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<td>Extended Use of Miralax Laxative in Constipated Patients and An Open Label Study of Chronic MiraLax Use in Constipated Patients</td>
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<td>Hoffman-LaRoche Inc.</td>
<td>Randomized, Multicenter, Open Label, Phase IV Study Evaluating the Efficacy and Safety of 16-Week Treatment With Pegasys in Combination with Copegus in Interferon-naive Patients with Chronic Hepatitis C Genotype 2 or 3 Virus Infection</td>
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<td>Jorge Herrera</td>
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<td>Dose Ranging Pilot Study of PEG 3350 and Bisacodyl for Bowel Preparation</td>
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<td>Miralax Versus Zelnorm in Treatment of Patients with Chronic Constipation</td>
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<td>Schering Plough Research Institute</td>
<td>Comparison of PEG-Intron 1.5 ug/kg/wk Plus REBETOL Versus PEG –Intron 1 ug/kg/wk Plus REBETOL Versus 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>Jorge Herrera</td>
<td>SciClone Laboratories</td>
<td>A Multicenter Double-Blinded Study in Patients With Compensated Cirrhosis Due to Chronic Hepatitis C Who Are Non-Responders to Prior Interferon Alfa or Interferon Alfa+Ribavirin Therapy, Comparing Treatment With Thymosin Alpha 1 + Peginterferon Alfa-2a With Peginterferon Alfa-2a + Placebo</td>
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<td>A Multicenter Double-Blinded Study in Non-Cirrhotic Hepatitis C Who Are Non-Responders to Prior Interferon Alfa or Interferon Alfa + Ribavirin Therapy, Comparing Treatment with Thymosin Alpha 1 + Peginterferon Alfa-2a with Peginterferon Alfa-2a + Placebo</td>
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<td>Kevin Olden</td>
<td>NIH</td>
<td>Antidepressant Therapy for Functional Dyspepsia</td>
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<td>Kane Schaphorst</td>
<td>SE AHA 0455369B*</td>
<td>Hepatocyte Growth Factor Mediated Enhancement of Endothelial Barrier Function: Role of the C-MET/GAB1 Interaction</td>
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* Member of Center for Lung Biology
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<td>Barbara Oliver</td>
<td>SAMHSA</td>
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<td>SAMHSA SC-05-127</td>
<td>USA Fetal Alcohol Spectrum Disorder Program</td>
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<td>Wladimir Wertelecki</td>
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<td>South Alabama Regional Genetics Program</td>
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<td>Ukrainian Birth Defects Program</td>
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<td>Robert Lausch</td>
<td>NIH 5 R01 EY11493-09</td>
<td>FC Gamma Receptors and Resistance to Herpes Stromal Keratitis</td>
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<td>David McGee</td>
<td>NIH 5 R01 CA101931-03</td>
<td>Helicobacter Pylori Arginase Modulation of Ulcers and Cancer</td>
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<td>Herbert Winkler</td>
<td>NIH 2 R01 AI015035-28</td>
<td>Permeability of the Epidemic Typhus Rickettsia</td>
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<td>NIH 5 R01 AI045533-05</td>
<td>Genomic Level Expression Patterns in Typhus Rickettsiae</td>
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<td>David Wood</td>
<td>NIH 4 R37 AI020384-22</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
<td>292,455</td>
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<td>NIH 5 RO 1AI055913-02</td>
<td>Global Analysis of the Rickettsia Prowazekii Proteome</td>
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<td>William Hamilton</td>
<td>Schwartz Biosciences</td>
<td>A Multicenter, Double-Blind, Randomized, Placebo-, Controlled Parallel-Groupup to Investigate the Efficacy and Safety of SPM-927 (400 and 600 mg/day) as Adjunctive Therapy in Subjects with Partial Seizures with or without Secondary Generalization</td>
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<td>Johnson &amp; Johnson Pharma Research</td>
<td>A Double-Blind, Placebo-Controlled, Dose-Ranging Study to Evaluate the Efficacy, Safety, and Tolerability of RWJ-333369 as Adjunctive Therapy in Subjects with Refractory Partial Seizures</td>
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<td>An Open-Label Extension Trial to Determine Safety and Efficacy of Long-Term Oral SPM 927 in Patients with Partial Seizures</td>
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<td>Ivan Lopez</td>
<td>Eisai Medical Research</td>
<td>A Double-Blind, Placebo-Controlled, Dose-Escalation, Parallel-Group Study of E2007 Given as Adjunctive Therapy in Patients With Refractory Partial Seizures</td>
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<td>Paul Maertens</td>
<td>UCB Pharma</td>
<td>A Multicenter, 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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### NEUROLOGY (cont’d)

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<tr>
<td>Paul Maertens</td>
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<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>
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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-naive Subjects (1-24 months of age) LAM2007</td>
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<td>John Rothrock</td>
<td>Abbott Laboratories</td>
<td>The Safety and Efficacy of Divalproex Sodium Extended-Release Tablets in Migrain Prophylaxis: A Double-Blind, Placebo-Controlled Study in Adolescents</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>
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<td>Poxen Inc.</td>
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<td>A Double-Blind, Multi-Center, Randomized, Placebo-Controlled Single Dose Study to Evaluate the Safety and Efficacy of Trexima in the Acute Treatment of Migraine</td>
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<td>Eisai Medical Research Inc.</td>
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<td>A Randomized, Double-Blind, Placebo-Controlled, Multicenter, Parallel-Group Study to Evaluate the Efficacy and Safety of E2007 in Migrain Prophylaxis</td>
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<td>Richard Zweifler</td>
<td>Aventis</td>
<td>An Open-label, Randomized, Parallel-Group, Multicenter Study to Evaluate the Efficacy and Safety of Enoxaparin Versus Unfractionated Heaprin in the Prevention of Venous Thromboembolism in Patients Following Acute Ischemic Stroke</td>
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<td>Centocor/Omnicare</td>
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<td>Abciximab in Acute Ischemic Stroke: A Phase III, Multi-National, Multicenter, Randomized, Double-Blind, Placebo-Controlled Trial</td>
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<td>Boehringer Inhelheim</td>
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<td>ProFESS-Prevention Regimen for Effectively Avoiding Second Strokes: A Double-Blind, Acitve and Placebo Controlled Study of Aggrenox Versus Clopidrogrel + Aspirin, with and without Micardis</td>
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<td>Medivance Inc.</td>
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<td>Mild Induced Hypothermia Using the Arctic Sun and a Meperidene Infusion Based Pharmacologic Protocol</td>
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<td>NIH 1 RO1 NS 044876-01A2</td>
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<td>Insulin Resistance Intervention After Stroke Trial (IRIS)</td>
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<td>Kathleen Porter</td>
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<td>A Phase III, Randomized, Double-Blinded, Placebo-Controlled, Multicenter Study</td>
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<td>to Assess the Efficacy, Safety, And Tolerability of Prochive 8% Progesterone</td>
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<td>Gel in Preventing Preterm Delivery in Pregnant Women at Increased-Risk for Preterm Delivery</td>
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<td>NIH 5 U01 HD039939-02</td>
<td>Vaginal Ultrasound Cerclage Trial</td>
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<td>Botros Rizk</td>
<td>Eli Lilly</td>
<td>Teriparatide (rDNA origin) Injection (LY333334)</td>
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<td>A Multicenter, Double-Blind Study to Determine the Efficacy of ESTRATEST H.S.</td>
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<td>A Multicenter, Double-Blind Study to Determine the Efficacy of ESTRATEST H.S.</td>
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<td>A Multicenter Validation Study of the Women’s Sexual Interest Diagnostic Interview (WSID) in Postmenopausal Women</td>
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### OBSTETRICS AND GYNECOLOGY (cont’d)

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<td>Botros Rizk</td>
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<td>Placebo in the Treatment of Vasometer Symptoms and Vulvar and Vaginal Atrophy</td>
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<td>Solvay Pharmaceuticals</td>
<td>Evaluation of Safety and Efficacy of Prometrium Capsules in Induction of Secretory Conversion of Endometrium and Withdrawal Bleeding in Subjects with Secondary Amenorrhea</td>
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### ORTHOPAEDIC SURGERY

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<tr>
<td>Albert Pearsall, IV</td>
<td>Zimmer</td>
<td>A Biomedical Analysis of Internal Fixation of Type VI Schatzker Tibial Plateau Fractures</td>
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<td>K&amp;W Associates</td>
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# Pathology

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<td>Elizabeth Manci</td>
<td>NIH 5 R01 HL073307-02</td>
<td>Allogeneic Chimerism in Murine Sickle Cell Disease</td>
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<td>NIH 5 R01 HL019278-30</td>
<td>Beta-3 Integrins in Platelet and Vaso-Occlusive Disorders</td>
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# Pediatrics

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<tr>
<td>Karen Crissinger</td>
<td>AstraZeneca</td>
<td>A Phase III, Multicenter, Parallel-Group Study to Evaluate the Safety and Clinical Outcome of Once Daily Esomeprazole for the Treatment of Gastro-Esophageal Reflux (GERD) in Pediatric Patients 1 to 11 Years of Age, Inclusive</td>
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<td>Wyeth Pharmaceuticals</td>
<td>A Multicenter, Randomized, Double-Blind Study of the Safety, Tolerability, and Clinical Outcomes of 2 Doses (20 and 40mg) of Oral Pantoprazole in Children (12-16 Years Old) with Symptomatic Gerd</td>
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<td>Fabien Eyal</td>
<td>Inhibitex</td>
<td>A Phase III, Randomized, Double-Blinded, Multicenter Clinical Trial Comparing the Safety and Efficacy of Veronate Versus Placebo for the Prevention of Nosocomial Staphylococcal Sepsis in Premature Infants (birth weight 500-1250g)</td>
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<td>Mary Mancao</td>
<td>NIH 5 U01 AI041025-08</td>
<td>Southeast Pediatrics Aids Clinical Trials Unit</td>
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<td>HRSA 5 H12 HA23027-0500</td>
<td>USA Family Specialty Clinic</td>
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<td>Kenneth Rettig</td>
<td>Novo Nordisk</td>
<td>ANA-2181: External Continuous Subcutaneous Infusion Aspart (Novolog) Versus Insulin Lispro (Humalog): An Open-Label Randomized, Parallel-Group, Multicenter Study in Children and Adolescents with Type 1 Diabetes</td>
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<td>Lawrence Sindel</td>
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<td>Cystic Fibrosis Center Program</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 (MPS-I)</td>
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<td>Novartis Pharma</td>
<td>A Randomized, Multicenter Open Label Phase II Study</td>
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<td>Pamlab</td>
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<td>Merck Grant for Folate Related Research Projects</td>
<td>Mark Gillespie</td>
<td>Merck</td>
<td>Hypoxia-Inducible Factor</td>
<td>NIH 2 R01 HL 38234-07</td>
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<td>Bioavailability of Naturally Occurring Methylenehydrofolate (MTHF) Research</td>
<td>Michael Chinkers</td>
<td>NSF</td>
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<td>NIH 5 R01 HL066299-05</td>
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<td>Steroid Receptor Regulation by TPR Proteins</td>
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<td>DNA Lesions and Gene Expression in Hypoxic Lung Disease</td>
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<td>Mitochondrial DNA Integrity and Endothelium Cell Free Radical Stress - Project 3**</td>
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<td>EDHB: A Prolyl Hydroxylase Inhibitor, Stimulates Reactive Oxygen Species Production in Rat Liver Mitochondria</td>
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<td>Lung Cell Genomic Threats From Physiological Signals</td>
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<td>Jonathan Scammell</td>
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<td>An Animal Model of Glucocorticoid Resistance</td>
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<td>Troy Stevens</td>
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<td>Calcium Inhibition of cAMP in Endothelial Cell Permeability-Project 1**</td>
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<td>Store Operated CA$^{2+}$ Entry: Lung Endothelial Permeability</td>
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<td>SE AHA 0415112B</td>
<td>Adenylyl Cyclase 6 and Phosphodiesterase 4D4 Coordinately Localize cAMP Critical to Pulmonary Microvascular Endothelial Barrier Function</td>
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<td>Wiltz Wagner</td>
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<td>Pulmonary Microcirculatory Hemodynamics</td>
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<td>Songwei Wu</td>
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<td>Lung Endothelium in Vaso-Occlusion</td>
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**Total** $3,425,365

**Center for Lung Biology Program Project**
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<td>Airway Submucosal Glands and Cystic Fibrosis Disease</td>
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<td>Cystic Fibrosis FDN DENNY05F0</td>
<td>Bacterial Colonization of Porcine Airways In Vitro</td>
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<td>Michael Cohen</td>
<td>NIH 2 RO1 HL050688-10</td>
<td>Catechols and Adenosine in Myocardial Preconditioning</td>
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<td>James Downey</td>
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<td>Inhibition of Ischemic Injury by Treatment with an Adenosine A1 Receptor Agonist</td>
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<td>Molecular Therapeutics</td>
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<td>Physical Factors and Coronary Flow</td>
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<td>cGMP-Dependent Protein Kinase PKG Expression</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>James Parker</td>
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<td>Mechanical Injury to Lung Endothelium Cell Project 2**</td>
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<td>Mark Taylor</td>
<td>NATL AHA 0435051N</td>
<td>Coronary Artery Regulation by Small-Conductance Ca(^{2+})-Activated K⁺(SK3) Channels</td>
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<td>Mary Townsley</td>
<td>NIH 5 T32 HL076125-02</td>
<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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* Center for Lung Biology Training Grant
**Center for Lung Biology Program Project
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<td>John Boullier</td>
<td>Peninsula Pharma</td>
<td>A Multicenter, Phase 3 Study to Confirm the Safety and Efficacy of Intravenous Doripenem in Complicated Lower Urinary Tract Infection or Pyelonephritis</td>
<td>$ 9,699</td>
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<tr>
<td>Richard Gonzalez</td>
<td>Discovery Laboratories</td>
<td>A Multicenter, Randomized, Controlled Trial Comparing the Safety and Effectiveness of Surfaxin (lucinactant) Delivered Via Bronchopulmonary Segmental Lavage to Standard of Care in Patients with Acute Respiratory Distress Syndrome (ARDS)</td>
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<td>202</td>
<td>DOT DTHN22-00-H-05285</td>
<td>Center for the Study of Rural Vehicular Trauma</td>
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<td>Moustafa Adel Hassan</td>
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<td>A Randomized, Double-Blind, Placebo-Controlled Study to Determine the Efficacy and Safety of Epoetin Alfa in Critically Ill Subjects</td>
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<td>Joseph LoCicero III</td>
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<td>Critical Care Family Assistance Program Replication Project</td>
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<td>Principal Investigator</td>
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<td>Fiscal Year Funding</td>
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<td>------------------------</td>
<td>-------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------</td>
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<tr>
<td>Arnold Luterman</td>
<td>Wyeth Pharmaceuticals</td>
<td>A Phase 3, Open-Label, Noncomparative Study of Tigecycline for the Treatment of Subjects with Selected Serious Infections Due to Resistant Gram-Negative Organisms Such as Enterobacter Species, Acinetobacter Baumannii and Klebsiella Pneumoniae</td>
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<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>203</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></td>
<td>Pfizer</td>
<td>Linezolid In The Treatment of Subjects With Complicated Skin and Soft Tissue Infections Proven To Be Due To Methicillin-Resistant Staphylococcus Aureus</td>
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### SURGERY (cont’d)

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<tr>
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<th>AGENCY</th>
<th>PROJECT TITLE</th>
<th>FISCAL YEAR FUNDING</th>
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</thead>
<tbody>
<tr>
<td>Arnold Luterman</td>
<td>MediWound Ltd</td>
<td>Enymatic Debridement in Burn Patients: Comparison to Standard of Care</td>
<td>$8,522</td>
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<tr>
<td>Velma Scantlebury</td>
<td>Fujisawa/Clinimetrics</td>
<td>A Phase III, Randomized, Open-Label, Comparative Multicenter Study to Access the Safety and Efficacy of Prograf/MMF in De Novo Kidney Transplant Recipients</td>
<td>$15,512</td>
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**Total** $613,059

### USA HOSPITALS

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<tr>
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<td>USA Cancer Research Institute Construction</td>
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<td>Michael Trainor</td>
<td>ACF 90AE0001/03</td>
<td>Will to Wait Community Based Education</td>
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**Total** $950,796
2004-2005
OFFICE OF STUDENT AFFAIRS AND MEDICAL EDUCATION

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 Alumni Affairs. 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 on campus, and the Mastin Building at the USA Medical Center.

Student Affairs

Orientation programs, entirely organized by sophomore student efforts, were held for entering Freshmen on August 10-12, 2005. Class size for the entering Freshman increased from 64 to 70 students. 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 homes on Wednesday night and a variety of optional activities on Friday. Orientation concluded with a party at the Mobile Botanical Gardens on Friday 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 09, 2005. 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 fourth annual White Coat Ceremony, sponsored again this year by the Medical Alumni Association, was held on Saturday, May 7, 2005, in the University Ballroom. Rising third-year students and their families were welcomed by Dr. Margaret O'Brien for the Office of Student Affairs and Dr. Diana Hashimi for the Medical Alumni Association. Dr. John Bass 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, Kathryn Brown, also addressed the assembly. The formal program was followed by a reception in the College of Medicine Conference Room. 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 Boston, 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 2005-2006. The Fourth Year Elective Manual was revised based on recommendations from the Curriculum Committee.
Student Affairs supports a tutoring program which pays upperclassman and/or graduate students to tutor Freshman and Sophomore students who request assistance. In 2004-2005, three (3) tutors provided 29 hours of tutoring to nine (9) students in Physiology, Histology, and Biochemistry courses.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2004-2005 is outlined below:

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<td>3</td>
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<tr>
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<td>16</td>
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<td>Completed Paperwork, but Cancelled Visit</td>
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### Months Electives Taken

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Letters of evaluation (Dean’s Letters) were written for each of the 59 seniors who graduated in May, 2005. Students applied to 1637 residency programs through the AAMC Electronic Residency Application Service (ERAS).

Fifty-five (55) of the fifty-nine (59) students matched for residency positions with forty-seven (47) of the May graduates using the NRMP as their primary means of obtaining residency. Eight (8) graduates used the San Francisco Subspecialty Match, American Urology Association Match, or Military Match. Four students secured residency training positions in the “scramble” that followed the match.

### Choice on NRMP Rank-Order List (Percent of Class Who Matched)

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of Graduates</th>
<th>Match Utilized</th>
<th>Initially Failed to Match in NRMP</th>
<th>Choice on NRMP Rank-Order List (Percent of Class Who Matched)</th>
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<td></td>
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<td>NRMP</td>
<td>Non-NRMP</td>
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</tr>
<tr>
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<td>60</td>
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<td>2002</td>
<td>60</td>
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<td>49</td>
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<tr>
<td>2004</td>
<td>61</td>
<td>56</td>
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<tr>
<td>2005</td>
<td>60</td>
<td>50</td>
<td>10</td>
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## University of South Alabama Seniors
### Residencies Received by Discipline

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<th>Class of 2002</th>
<th>Class of 2003</th>
<th>Class of 2004</th>
<th>Class of 2005</th>
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<tr>
<td>Internal Medicine</td>
<td>42</td>
<td>65%</td>
<td>37</td>
<td>62%</td>
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<tr>
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<td>31</td>
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</tr>
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<tr>
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## University of South Alabama Seniors
### Residencies Received by State

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<th>USA Hospitals (Mobile)</th>
<th>Out-of-State</th>
<th>Number of Different States</th>
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<td>20</td>
<td>34</td>
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<tr>
<td>2004</td>
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<td>38%</td>
<td>14</td>
<td>38</td>
</tr>
<tr>
<td>2005</td>
<td>25</td>
<td>42%</td>
<td>15</td>
<td>34</td>
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</table>
Fifty-nine seniors received the degree Doctor of Medicine at Commencement on May 7, 2005. On the evening of May 6, the College held its thirtieth Honors Convocation, which took place in the Mitchell Center. Dr. Charles B. Rodning addressed the class and Paul B. Lamb responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award ................................................................. Paul B. Lamb
Outstanding Student in the Anatomical Sciences ........................................... Paul B. Lamb
Charles M. Baugh Award in Biochemistry .................................................... Ami M. Patel
Medical Assurance Award ................................................................. Michael W. Dye, Jr.
Leonard Tow Humanism in Medicine Award ................................................. Juan A. Cabrera
SNMA Leadership Award ........................................................................ Tanikqua D. Moore
Community Service Award ........................................................................ Allison G. Eaddy
Lewis Anderson Medical Student Achievement Award ................................ Zachary B. Scheer
Obstetrics/Gynecology Award ....................................................................... Michael L. Sprague
William A. Gardner, Jr. Pathology Award ..................................................... Suzanne M. Martin
Merck Award .......................................................................................... Jarrod B. Adkison
SAMU Award ........................................................................................... Daniel R. Beasley
Samuel Eichold Award ................................................................................ Jarrod B. Adkison
Hollis J. Wiseman Award for Excellence in Pediatrics ................................... Paul B. Lamb
Pharmacology Achievement Award ............................................................. Ninon J. Pachikara
John W. Donald Memorial Award in Surgery ................................................. Paul B. Lamb
Medical Alumni Leadership Award ............................................................. Michael L. Sprague
Charles W. Urschel Achievement Award in Physiology ................................ Paul B. Lamb
Excellence in Emergency Medicine Award .................................................. Brett A. Miller
Glasgow-Rubin Achievement Citation - American Medical Women's Association ........................................ Ami M. Patel
## 2004-2005 Grades Assigned

<table>
<thead>
<tr>
<th>Freshman Courses</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biochemistry</td>
<td>26</td>
<td>31</td>
<td>6</td>
<td>2</td>
<td>2</td>
<td>3.15</td>
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<tr>
<td>Intro to Clinical Medicine</td>
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<td>Physiology</td>
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<td>30</td>
<td>27</td>
<td>2</td>
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<tr>
<td>Gross Anatomy</td>
<td>21</td>
<td>41</td>
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<td>Histology</td>
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<td>Developmental Anatomy</td>
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<td>38</td>
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<table>
<thead>
<tr>
<th>Sophomore Courses</th>
<th>A</th>
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<th>C</th>
<th>D</th>
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<tbody>
<tr>
<td>Microbiology</td>
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<td>39</td>
<td>6</td>
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<tr>
<td>Pathology</td>
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<td>Pharmacology</td>
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<tr>
<td>Behavioral Sciences</td>
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<td>0</td>
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<td>Genetics</td>
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<td>0</td>
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<tr>
<td>Introd. Clinical Med. II</td>
<td>51</td>
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<table>
<thead>
<tr>
<th>Junior Clerkships*</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>F</th>
<th>GPA</th>
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</thead>
<tbody>
<tr>
<td>Family Practice</td>
<td>33</td>
<td>20</td>
<td>7</td>
<td>0</td>
<td>0</td>
<td></td>
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<td>Medicine</td>
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<td>26</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Neurology</td>
<td>54</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Obstetrics/Gynecology*</td>
<td>33</td>
<td>20</td>
<td>5</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Pediatrics</td>
<td>19</td>
<td>37</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Psychiatry</td>
<td>13</td>
<td>40</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Surgery</td>
<td>17</td>
<td>35</td>
<td>6</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

*3 students were given the grade of "U" (unsatisfactory) in Ob/Gyn and were asked to remediate
## Academic Progress of Medical Students

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

<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><strong>Initial Students in Class</strong></td>
<td>65</td>
<td>64</td>
<td>65</td>
<td>67</td>
<td>60</td>
</tr>
<tr>
<td><strong>Graduates</strong></td>
<td>65</td>
<td>60</td>
<td>59</td>
<td>60</td>
<td>59</td>
</tr>
<tr>
<td><strong>True Attrition (will not receive M.D. in any year)</strong></td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>N/A</td>
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### Graduates

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dismissed</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sophomores</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Juniors</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Seniors</td>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Placed on Leaves of Absence (LOA)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freshmen</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Sophomores</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>2</td>
<td>1</td>
</tr>
<tr>
<td>Juniors</td>
<td>4</td>
<td>3</td>
<td>10</td>
<td>11</td>
<td>7</td>
</tr>
<tr>
<td>Transferred to Another Medical School</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Withdrew</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Admitted with Advanced Standing or Re-entered from Graduate School</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Deceased</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Repeated All or Part of the Year</td>
<td>11</td>
<td>2</td>
<td>5</td>
<td>3</td>
<td>6</td>
</tr>
<tr>
<td>Enrolled on a Decelerated Schedule</td>
<td>1</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><strong>Total</strong></td>
<td>32</td>
<td>38</td>
<td>35</td>
<td>30</td>
<td>28</td>
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<tr>
<td>Freshmen</td>
<td>7</td>
<td>12</td>
<td>9</td>
<td>7</td>
<td>8</td>
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<tr>
<td>All Other Classes</td>
<td>25</td>
<td>26</td>
<td>26</td>
<td>23</td>
<td>18</td>
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United States Medical Licensure Examination (USMLE) Step 1
First Time Takers

<table>
<thead>
<tr>
<th></th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Students</td>
<td>56</td>
<td>63</td>
<td>64</td>
<td>62</td>
<td>59</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>215</td>
<td>215</td>
<td>216</td>
<td>216</td>
<td>216</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>218</td>
<td>213</td>
<td>207</td>
<td>210</td>
<td>208</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>8%</td>
<td>10%</td>
<td>9%</td>
<td>8%</td>
<td>8%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>0</td>
<td>5%</td>
<td>14%</td>
<td>18%</td>
<td>12%</td>
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</tbody>
</table>

Standard Deviation approximately 20

United States Medical Licensure Exam (USMLE) Step 2
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>64</td>
<td>57</td>
<td>59</td>
<td>60</td>
<td>Not Available</td>
</tr>
<tr>
<td>National Overall Mean</td>
<td>215</td>
<td>216</td>
<td>216</td>
<td>220</td>
<td>Not Available</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>212</td>
<td>221</td>
<td>215</td>
<td>219</td>
<td>Not Available</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>5%</td>
<td>4%</td>
<td>4%</td>
<td>6%</td>
<td>Not Available</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>5%(3)</td>
<td>0</td>
<td>7%</td>
<td>5%</td>
<td>Not Available</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
United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th></th>
<th>Class of 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
<th>Class of 2001</th>
<th>Class of 2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Percentage Passing</td>
<td>95</td>
<td>95</td>
<td>95</td>
<td>96</td>
<td>96</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>100</td>
<td>98</td>
<td>100</td>
<td>96</td>
<td>92</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>62</td>
<td>53*</td>
<td>51**</td>
<td>50***</td>
<td>51*</td>
</tr>
</tbody>
</table>

*53/58 students have taken Step 3 as of 4/03  
**51/59 students have taken Step 3 as of 8/03  
***50/65 students have taken Step 3 as of 12/03  
* 51/60 students have taken Step 3 as of 12/04
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 2004 graduates. A total of 30 responses were received out of 61 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></th>
<th>Class of 2001</th>
<th>Class of 2002</th>
<th>Class of 2003</th>
<th>Class of 2004</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medical Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>19%</td>
<td>26%</td>
<td>26%</td>
<td>23%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>55%</td>
<td>31%</td>
<td>28%</td>
<td>20%</td>
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<tr>
<td>Middle Fifth</td>
<td>23%</td>
<td>43%</td>
<td>36%</td>
<td>47%</td>
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<td>2%</td>
<td>0%</td>
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<td>7%</td>
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<td>0%</td>
<td>3%</td>
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<tr>
<td><strong>Data Collection</strong></td>
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</tr>
<tr>
<td>Top Fifth</td>
<td>15%</td>
<td>26%</td>
<td>21%</td>
<td>26%</td>
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<tr>
<td>Upper Middle Fifth</td>
<td>57%</td>
<td>44%</td>
<td>52%</td>
<td>30%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>26%</td>
<td>28%</td>
<td>26%</td>
<td>40%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
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</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>3%</td>
</tr>
<tr>
<td><strong>Clinical Judgment and Skills</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
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<td>21%</td>
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<tr>
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<td>Lower Middle Fifth</td>
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<td>0%</td>
<td>7%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Professional Attitudes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>40%</td>
<td>44%</td>
<td>28%</td>
<td>37%</td>
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<tr>
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</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

The 2004-2005 Curriculum Committee was chaired by Dr. Elliott Carter, Department of Pathology. Dr. Susan LeDoux moved from the position of Chair to an ex-officio position in her role as Assistant Dean of Curriculum. The committee focused on a number of issues during the year with the following results:

1. The integrated Neuroscience course continued to be developed under the leadership of Dr. Anthony Gard. The course is a multidisciplinary undertaking and will be scheduled in the second semester of the second year beginning in Spring, 2006. To accommodate the new course, the Public Health and Epidemiology course was moved to the first year, Behavioral Science was moved to the Fall of the Sophomore year, and the Medical Decision Making course was moved to the Fall of the second year.

2. Dr. Bert Eichold and Dr. Martha Arietta, Co-course Directors of Public Health and Epidemiology, petitioned the committee to change the status of the course from pass/fail to graded. The committee granted that request.

3. A sub-committee was formed to evaluate the new required Senior course on Women’s Health. Dr. Lee Taylor headed the committee until his retirement in December, 2004, and the work of the sub-committee chair was continued by Dr. Elliott Carter. The sub-committee recommended that the required course be continued for another year and be further evaluated. The committee agreed.

4. The sub-committee on the USMLE Step 1 exam continued to focus on ways to improve student performance. For the second year, a review course was offered to students at the end of the second year. The performance of the students in Spring, 2005 indicated that they were well prepared. The entire distribution of scores shifted up with a median score of 224 (national average - 214-215), the high score was 259, and only one student failed. The committee agreed to continue the strategy of offering a “pre” test followed by the review course followed by a “post” test. It was recognized the “post” test has been a good predictor for our student’s performance on Step I.

5. The sub-committee on the fourth year electives, chaired by Dr. Michael Culpepper, will continue to monitor the fourth year electives.

6. The sub-committee on the Behavioral Science course, headed by Dr. Margaret O’Brien, was facing the resignation of the Behavioral Science Course Directors at the end of 2005. That and the lack of dedicated time to Medical Ethics and Professionalism elsewhere in the curriculum lead to the design of a two-year longitudinal course entitled Fundamentals of Doctoring including Ethics, Behavioral Science, and Professionalism. Beginning in the Fall of the first year and continuing through both years, the course will replace the previous Doctoring course (directed by Dr. Allen Perkins, Family Medicine), and the previous semester long Behavioral Science course (directed by Dr. D’ana Snow and Dr. Marty Adams, Family Medicine). The course is designed in recognizable modules with, at least in Fall of the first year, a community service component. The course is designed to be multidisciplinary and will be directed by Dr. Margaret O’Brien and Dr. Allen Perkins. The committee approved the implementation of the new course.
7. The sub-committee on Professionalism, in order to determine the extent to which professionalism was taught in the USA COM curriculum, the Professionalism in the Curriculum Subcommittee sent a questionnaire to all Course Directors for COM I, COM II and COM III courses and clerkships. The Subcommittee reviewed this data and felt that professionalism is addressed adequately at the USA COM.

However, the Subcommittee felt that the following recommendations would strengthen this component of the student’s education; 1) include a statement on the syllabus concerning the expectations of professional conduct, 2) faculty will be encouraged to model professionalism as this is a very integral part of the process, 3) students will be encouraged to investigate establishment of a professionalism driven honor society at USA COM, i.e., The Gold Humanism Honor Society, 4) a bibliography of resources on teaching professionalism will be developed and distributed to the Course Directors, 5) while encouraged, evaluation of professionalism as part of the grade is not always appropriate, 6) future faculty retreats should include a segment on teaching professionalism.

8. The redesign of the entire curriculum to a subject-based format was raised by Dr. Robert Kreisberg. The committee formed a special task force to evaluate the feasibility and desirability of such a redesign. The members on the task force are Dr. Susan LeDoux, Dr. Elliott Carter, Dr. Michael Chinkers, Judith Burnham, and Dr. Margaret O’Brien. The task force has designed and distributed questionnaires to students and faculty and anticipates final recommendations to be ready for submission to Dr. Kreisberg by October 1, 2005.

9. A fourth year elective is palliative care proposed by Mercy Medical was approved pending the identification of the supervising attending physician.
EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

As set forth in the Student Handbook, the Student Assembly addressed issues affecting student life. The Officers for 2004-05 were Juan Cabrera, President, Saba Rizvi, Vice President, Jarrod Adkinson, Secretary-Treasurer. The Faculty Advisors were Dr. Martin Cunningham-Internal Medicine and Dr. Elliott Carter-Pathology.

ISSUES ADDRESSED BY THE STUDENT ASSEMBLY

1) James Rainey, the newly appointed Director of Development for Medical Affairs, requested permission to be allowed to contact individual students for their family information for fund raising purposes. Student Assembly voted to allow Mr. Rainey to address students and distribute and collect appropriate consent forms.

2) Senior Student, Allison Eaddy, was appointed to serve as Community Service Chair for the academic year. It was thought that the prior system of class-by-class community service was less efficient that having a coordinator.

3) The first ever, student-sponsored Residency Fair was held on October 29. Twenty-one Residency Programs participated. The event was sponsored by the American Medical Women’s Association.

4) Student dissatisfaction with the current College of Medicine website was voiced and recommendations for improvement were made.

5) The color of the scrubs to be worn by third and fourth year students was set at khaki at the end of the 2004 academic year. The rising third year students challenged the choice of color and proposed their own slate-grey color.

6) Skit Night and the Yearbook were frequently monitored by reports to the Student Assembly.

7) Representatives to the AAMC Organization of Student Representatives, Marianthe Grammas and Scott Lindhorst, reported on the topics covered at the National Meeting.

8) Student Health Insurance remained a hot issue as the upcoming academic year would require an increase in premiums. The Student Assembly ultimately adopted the program suggested by the Alabama Administrators which would be under Blue Cross Blue Shield. A Student Task Force was formed to evaluate health insurance policies of the College of Medicine and of comparable Colleges of Medicine. The Task Force will be headed by Trey Aquadro, rising senior.

9) In March, the new Officers for the 2005-2006 Academic Year were selected as follows: Adam Anz, President, Adam Handwerger, Vice President, Melinda Rixey, Treasurer.

10) Student safety issues were raised about Childrens & Women’s Hospital parking lot and Mastin parking lot. Dr. O’Brien followed up with the Administration.

Student Assembly enjoyed another productive year addressing student issues.
<table>
<thead>
<tr>
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<tr>
<td>Total Financial Aid</td>
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<td>$6,262,549</td>
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<td>Students on Aid</td>
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<td>239</td>
<td>247</td>
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<tr>
<td><strong>Loans</strong></td>
<td></td>
<td></td>
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<tr>
<td>Perkins</td>
<td>240,000</td>
<td>467,555</td>
<td>898,000</td>
<td>928,158</td>
<td>865,985</td>
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<tr>
<td>Health Professions Loan</td>
<td>231,307</td>
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<tr>
<td>Stafford Loan</td>
<td>1,791,278</td>
<td>1,834,097</td>
<td>1,851,680</td>
<td>1,815,092</td>
<td>1,599,284</td>
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<tr>
<td>Graduate Unsubsidized</td>
<td>2,542,252</td>
<td>3,133,132</td>
<td>2,926,423</td>
<td>3,536,833</td>
<td>3,543,821</td>
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<tr>
<td>Alternative Loan Program</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<td>Loans to Disadvantaged Students</td>
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<td>0</td>
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<td>Outside Private Loans</td>
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<tr>
<td><strong>Total Loans</strong></td>
<td>$4,838,037</td>
<td>$5,453,284</td>
<td>$5,676,103</td>
<td>$6,280,083</td>
<td>$6,009,090</td>
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<tr>
<td><strong>Scholarships</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Sponsored</td>
<td>344,600</td>
<td>367,950</td>
<td>372,200</td>
<td>417,638</td>
<td>410,923</td>
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<tr>
<td>Outside Sponsored</td>
<td>8,769</td>
<td>53,128</td>
<td>87,046</td>
<td>148,054</td>
<td>248,165</td>
</tr>
<tr>
<td>Military - Army</td>
<td>17,020</td>
<td>27,089</td>
<td>27,088</td>
<td>32,004</td>
<td>38,395</td>
</tr>
<tr>
<td>Military - Navy</td>
<td>25,546</td>
<td>27,061</td>
<td>27,060</td>
<td>21,300</td>
<td>25,808</td>
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<tr>
<td>Alabama Medical Board Scholarship</td>
<td>60,000</td>
<td>70,000</td>
<td>55,000</td>
<td>55,000</td>
<td>55,000</td>
</tr>
<tr>
<td>Military - Air Force</td>
<td>12,698</td>
<td>27,089</td>
<td>18,052</td>
<td>42,585</td>
<td>62,432</td>
</tr>
<tr>
<td><strong>Total Scholarships</strong></td>
<td>$468,633</td>
<td>$572,317</td>
<td>$586,446</td>
<td>$716,581</td>
<td>$840,723</td>
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<tr>
<td><strong>Average Indebtedness of a Graduating Senior</strong></td>
<td>$70,103</td>
<td>$88,717</td>
<td>$82,904</td>
<td>$88,830</td>
<td>$90,416</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, 2004, through July 31, 2005, 33 emergency loans were approved for a total amount of $17,000.00. During that period, 35 payments totaling $16,940.00 were paid back into the loan account.
BEAR PROGRAM TASK FORCE

Dr. Robert Kreisberg, Dean of the College of Medicine, appointed a special task force to evaluate the Biomedical Enrichment and Recruitment (BEAR) Program. The members of the task force were Dr. Susan P. LeDoux, Chair, Dr. Martha Arrieta, Dr. Elliot Carter, Dr. Phillip A. Fields, Dr. Juvonda S. Hodge, Dr. Hattie M. Myles, Dr. Margaret O'Brien, Dr. Solomon Ofori Acquah, and Dr. Harvey L. White. In order to evaluate the BEAR program, data was collected from three different sources. First, data was obtained from students who had participated in the program, including College of Medicine graduates. Second, data was obtained from other enrichment and pipeline programs. Third, data was obtained from the feeder schools for the BEAR program. After evaluating the data, the task force concluded that the BEAR program has been extremely successful in recruiting minorities into the College of Medicine. Specific areas of the enrichment portion of the program, however, need improvement based on the data collected. It also became apparent that the BEAR committee needs to be more actively involved in the program. Therefore, the task force made the following recommendations.

* The number of students admitted into Phase I should be increased to 10-12

* A more structured MCAT preparation course must be provided for both Phase I and Phase II.

* A stratified reward in the form of scholarship monies should be provided based on MCAT score. A minimum score of 20 should be required for consideration for scholarship monies.

* A reading and study skills course should be included in the Phase I curriculum.

* After successful completion of Phase II, students should be invited to interview with the subcommittee of College of Medicine Admissions committee for enrichment and exposure.

* The BEAR Committee should be more actively involved in the selection process.

* A faculty based mentoring program for BEAR students should be established.

* The BEAR committee needs to explore possibilities for federal grants to support research for the BEAR students for the third summer.

* A post-baccalaureate matriculation program should be developed.
**BEAR PROGRAM STATISTICS SUMMARY**  
*June, 1986 - August, 2005*

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total who entered program</td>
<td>197</td>
</tr>
<tr>
<td>Total who did not successfully complete Phase I</td>
<td>25</td>
</tr>
<tr>
<td>Total who did not successfully complete Phase II</td>
<td>27</td>
</tr>
<tr>
<td>Total who participated in Phase I only</td>
<td>2*</td>
</tr>
<tr>
<td>Total who participated in Phase II only</td>
<td>9**</td>
</tr>
<tr>
<td>Total who did not return for Phase II</td>
<td>13²</td>
</tr>
<tr>
<td>Total scheduled to enter Phase II in 2004</td>
<td>10</td>
</tr>
<tr>
<td>Total who successfully completed both Phases</td>
<td>111</td>
</tr>
</tbody>
</table>

* - 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 111 SUCCESSFUL BEAR PROGRAM STUDENTS**

Of the 111 students who completed both phases:

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total BEAR students entered USA COM to date</td>
<td>91</td>
</tr>
<tr>
<td>Graduated from USA COM</td>
<td>52</td>
</tr>
<tr>
<td>Currently enrolled in medical school</td>
<td>23</td>
</tr>
<tr>
<td>Withdrew from medical school</td>
<td>9</td>
</tr>
<tr>
<td>Dismissed from medical school</td>
<td>7</td>
</tr>
<tr>
<td>Chose not to matriculate</td>
<td>4</td>
</tr>
<tr>
<td>Enrolled in other institutions</td>
<td>10</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scheduled to enter USA COM in 2006</td>
<td>6</td>
</tr>
<tr>
<td>Retention in USA COM</td>
<td>82.4%</td>
</tr>
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</table>

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**TRADITIONAL MINORITY STUDENT STATISTICS SUMMARY**

<table>
<thead>
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<th>Category</th>
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</thead>
<tbody>
<tr>
<td>Total traditional students entered USA COM to date</td>
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</tr>
<tr>
<td>Graduated</td>
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</tr>
<tr>
<td>Currently enrolled</td>
<td>04</td>
</tr>
<tr>
<td>Dismissed</td>
<td>11</td>
</tr>
<tr>
<td>Withdrew</td>
<td>9</td>
</tr>
<tr>
<td>Retention</td>
<td>69.23%</td>
</tr>
</tbody>
</table>

*Includes 2 students attending 1 year in BEAR
Medical Alumni Office  
Summary of Activities 2004-05

The 2004-05 Board of Directors for the Medical Alumni Association consisted of the following physicians: Dr. Diana K. Hashimi (president), Dr. Oscar D. Almeida (past-president), Dr. R. Lamar Duffy (president-elect), Dr. William E. Blaylock, Dr. Gregory W. Cotter, Dr. Carol C. Dittman, Dr. Russell A. Hudgens, Dr. Amy M. Morris, Dr. Thomas B. Montgomery, Dr. David C. Ross, Dr. Lee W. Thompson, Dr. John L. Todd, Dr. Kathleen J. Webster, Dr. Stacey W. Wing. The organization currently has a membership of 1,800 graduate physicians.

The Annual Alumni Weekend was held at the Perdido Beach Resort on June 17-18, 2005. Five classes celebrated reunion dates (1980, 1985, 1990, 1995, and 2000). During the business session, a proposal was approved to include Ph.D. graduates and resident alumni of the USA hospital system as members of the USA Medical Alumni Association (an estimate of an additional 1,700 new members). The weekend included CME programs and a dinner honoring Dr. LeRoy Riddick, recipient of the 2005 Distinguished Service Award. Two presentations were made by Dr. Hashimi to the College of Medicine ($25,000 for the Medical Alumni Scholarship Fund and a $10,000 gift to the Robert A. Kreisberg Clinical Scholars Endowment).

Gifts, sponsored programs or donations for 2004-05 include: $10,000 to the Cancer Research Institute, $1,000 to the Baugh Biomedical Library, two senior travel awards, five chapter receptions (Mobile, Huntsville, Montgomery, Dothan and Mississippi), two state receptions (MASA and AAFP), Charles Baugh Picnic, White Coat Ceremony, Annual Alumni Weekend, Distinguished Service Award, seminars (Vital Signs), Skit Night, Caduceus Ball, Review of Systems, donations to six student organizations including intramural sports.

Ten freshman scholarships and three memorial scholarships were awarded (Christian L. Grinaker, Clyde G. Huggins and Les Sockwell). Two academic awards were recognized: the Medical Alumni Leadership Award and the Michael Moore Gross Anatomy Award.

The Medical Alumni Office publishes semi-yearly editions of the Alumni Newsletter, maintains a website on the College of Medicine homepage and organizes four board meetings during the year. The supervision of the Medical Alumni Office was transferred to the Dean’s Office with Mr. Jim Rainey serving as Director of Medical Development and Alumni Relations.
Applicant Pool and Acceptance Data

The University Of South Alabama College Of Medicine participates in the American Medical College Application Service (AMCAS). The period for receiving applications to the College of Medicine for the class entering August 15, 2005, opened June 1st and closed November 15, 2004.

For the Class of 2009, eight hundred nine (809) applications were received. Three hundred sixty-two (362) applications were received from Alabama residents, four hundred thirty-one (431) from out of state U.S. citizens, and six (6) from citizens of foreign countries. The Admissions Committee interviewed a total of one hundred ninety-eight (198) applicants of which one hundred seventy-nine (179) were residents of Alabama. Of the applicants interviewed, one hundred thirty-seven (137) were offered admission to fill a class of seventy (70). Sixty-two (62) of the matriculating students are Alabama residents. Twelve (12) offers of admission were made to Black applicants; six (6) will matriculate. Four (4) 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 (787 in '04 vs. 809 in '05); there was also an increase in Alabama applicants (353 in '04 vs. 362 in '05). Table I gives comparative data since 2002.

The 2005 entering class has an exceptional "mix" of academically well-qualified students who graduated from thirty-four (34) colleges and universities. However, 40% 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 in-state premedical advisors and selected out-of-state advisors.
6. A total of 15 Applicant Interview Day programs were conducted from September until early March. 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 198 candidates; each interviewee was interviewed by three committee members, giving a total of 594 interviews.

7. The following Admissions Committee subcommittees were active in 2004-05:
   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 2005, the EAP Subcommittee interviewed 45 applicants for the program and offered 15 acceptances.
<table>
<thead>
<tr>
<th></th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
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<td><strong>Total Applicants</strong></td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>Residence:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
<td>343</td>
<td>371</td>
<td>353</td>
<td>362</td>
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<tr>
<td>Out-of-State</td>
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<td>366</td>
<td>384</td>
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<td>Service Areas (FL &amp; MS)</td>
<td>31</td>
<td>49</td>
<td>36</td>
<td>47</td>
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<tr>
<td>Foreign</td>
<td>17</td>
<td>17</td>
<td>32</td>
<td>16</td>
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<tr>
<td>Alabama Female</td>
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<td>183</td>
<td>156</td>
<td>170</td>
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<tr>
<td>Out-of-State Female</td>
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<td>179</td>
<td>199</td>
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<tr>
<td>Alabama Rural</td>
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<td>81</td>
<td>75</td>
<td>76</td>
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<td>59</td>
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<td>47</td>
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<tr>
<td>Out-of-State Black</td>
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<td>34</td>
<td>44</td>
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<td><strong>Total Applicants Interviewed</strong></td>
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<td>191</td>
<td>207</td>
<td>198</td>
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<tr>
<td>Residence:</td>
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<td>170</td>
<td>188</td>
<td>179</td>
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<td>16</td>
<td>13</td>
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<td>7</td>
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<tr>
<td>Foreign</td>
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<td>1</td>
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<tr>
<td>Female</td>
<td>79</td>
<td>91</td>
<td>76</td>
<td>98</td>
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<tr>
<td>Rural</td>
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<td>25</td>
<td>26</td>
<td>39</td>
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<tr>
<td>Black (excludes BEARs)</td>
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<td>9</td>
<td>11</td>
<td>7</td>
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<td><strong>Total Applicants Accepted</strong></td>
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<td>128</td>
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<td>Total Black</td>
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<tr>
<td>Bear Program</td>
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<td>Early Decision Program</td>
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<td>5</td>
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<td><strong>Total Matriculants</strong></td>
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<td>3.7</td>
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<td>Average GPA</td>
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<tr>
<td>Residence:</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Alabama</td>
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<td>56</td>
<td>62</td>
</tr>
<tr>
<td>Out-of-State</td>
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<td>6</td>
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</tr>
<tr>
<td>Service Areas (FL &amp; MS)</td>
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<td>2</td>
<td>5</td>
</tr>
<tr>
<td>Foreign</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Female</td>
<td>26</td>
<td>38</td>
<td>25</td>
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<td>Rural</td>
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<td>Total Black</td>
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<td>Black Regular Admissions</td>
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<td>Black BEAR Program</td>
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</tr>
</tbody>
</table>
OFFICE OF GRADUATE MEDICAL EDUCATION

The Office of Graduate Medical Education is responsible for oversight of GME activities, policies, and procedures throughout the USA Hospitals and Clinics. During the 2004-2005 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 211 residents and fellows.

Dr. Jeffrey C. Brandon stepped down as Associate Dean of Medical Education, Chairman, Graduate Medical Education Committee and Designated Institutional Official after serving in this capacity for the last 8 years. Dr. Arnold Luterman has assumed the position of Assistant Dean of Graduate Medical Education, Chairman, Graduate Medical Education and Designated Institutional Official, effective July 1, 2005.

All of the residency/fellowship programs have received continued accreditation by the Accreditation Council for Graduate Medical Education (ACGME).

The Ad Hoc Committee, composed of members of the Graduate Medical Education Committee, conducted internal reviews (required by the ACGME half-way through the accreditation period) on one specialty program and is in the process of reviewing seven additional programs. Internal review committees are composed of a chair, a faculty member from another specialty, a hospital administrator, a resident, and the coordinator for GME, or at least three of these individuals. This process allows for a program to address issues, prior to the time of the RRC Site Visit, any deficiencies noted by the internal review, and additionally forces self-review by the program.

The College of Medicine, Office of Graduate Medical Education purchased a new GME system by New Innovations which will assist tracking and monitoring resident duty hours at all levels, maintain an up-to-date alumni database, timely evaluations and block/assignment scheduling.

Dr. Gregory E. Skipper, M.D., FASAM, Medical Director of the Alabama Physician Health Program, presented a lecture to all USA Housestaff on “Physician Impairment and Substance Abuse” on February 10, 2005.

Third year medical students, attending faculty and residents completing their first and second year of residency and residents in the final year of their programs were asked to complete a survey conducted by the American Medical Association regarding the impact of ACGME duty hours requirement. This survey was to be completed by July 15, 2005.

The Department of Emergency Medicine completed an application for accreditation and is awaiting the results of their ACGME site visit, which was conducted on May 31, 2005. The Division of Pulmonary Medicine completed their application to change their program to Pulmonary Disease/Critical Care Medicine and is currently awaiting an RRC site visit.

The Department of Internal Medicine requested an increase in their resident compliment and received approval from their ACGME Residency Review Committee for the increase. They will go from forty-six to fifty-two residents. The Division of Pulmonary Disease also requested an increase in their fellowship complement from 2 to 3 and received ACGME RRC approval.
GENERAL:
The Continuing Medical Education (CME) Committee oversees the function of the CME Office. The CME Office at the University of South Alabama makes it possible for physicians to receive credit units required for maintenance of medical licenses. The CME Office maintains CME records for all physicians in the USA system. 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 CME Office sponsors and monitors educational activities directed to all physician specialties in the University hospitals and clinics, affiliated hospitals and rural areas. 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 that meet the standards set by accrediting agencies. In fulfilling our mission, the CME Office provided instruction to physicians in fifteen (15) on-going departmental activities accounting for approximately 365 CME credit hours and seven (7) unique (or one time) activities accounting for 41 CME credit hours. With the wide range of activities offered, physicians were educated on the latest developments in technology and scientific advancements of medicine.

QUARTERLY MEETINGS:
The CME Committee, composed of multi-disciplinary faculty and staff, held four quarterly meetings: one in September, February, May and August. A recap of the meetings is indicated below:

September 2004:  
CME Mission Statement Approved  
Report on Updated 2004 ACCME Standards for Commercial Support  
Scheduled CME New Members Orientation Meeting for 11/17/04.

February 2005: Update on ACCME’s Standards for Commercial Report  
- New Disclosure Forms Approved  
- Changes to CME Policies and Procedures Manual Approved  
Presentation Regarding On-line CME Courses  
Report: Unique Activities Held Since the September 2004 CME Meeting  
Upcoming Unique Activities Approved

May 2005:  
2005 - 2006 On-Going Applications Approved  
Report: Unique Activities Held Since the February 2005 CME Meeting  
Upcoming Unique Activities Approved  

August 2005:  
Report: Unique Activities Held Since the May 2005 CME Meeting  
Report: On-line CME Courses  
Report: Summary of Quarterly Grand Rounds
WEB INFO:
The Office of CME revised its website allowing physicians within the USA College of Medicine and outlying areas to more easily access upcoming events, the latest NCME videos that are available, as well as links to other CME opportunities.

Also available on the website are updated forms used by the Office of CME, a copy of the new Standards for Commercial Support and a copy of the Policy and Procedures Manual. The CME Committee continues to explore possible mechanisms for implementing web-based CME courses.

CME STAFF:
Ms. Donna Skipper is the director of the CME Office. In January 2005, the Office of CME welcomed Margaret O’Brien, J.D., M.D., as the new Chair for Continuing Medical Education.

In June 2005, Ms. Barbara Grimes, Word Processing Specialist for CME retired, and her position was filled by Ms. Alma Platt.
2004-2005
Summary of Activities
Medical Student Summer Research Program

The Thirty-second Annual Medical Student Research Day was held on Friday, August 5, 2005 hosting approximately 90 attendees in the College of Medicine Conference room. Eleven 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 areas. The program aims to highlight the relation between scientific discoveries and their application in clinical medicine.

Dr. Andre Dubois, Research Professor of Medicine, Surgery, and Emerging Infectious Diseases and Chief, Laboratory of Gastrointestinal and Liver Studies, Assistant Director, Digestive Diseases Division of Uniformed Services University of Health Sciences in Bethesda, Maryland was the keynote speaker. Dr. Dubois' main research interest is the role of H. pylori in the pathogenesis of gastric cancer and peptic ulcer disease. His seminar was entitled, "Helicobacter pylori and Gastric Diseases: A Model of Medical Discovery".

Dr. David McGee chaired the Student Research Advisory Committee. Other committee members included: Drs. John Boullier, Ronald Balczon, Susan LeDoux, Elizabeth Manci, Margaret O'Brien, Solomon Ofori-Acquah, James Parker, Rajeev Samant, Jorge Quinonez, 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 five oral and six poster presentations at the Annual Medical Student Research Day. Student presentations and their faculty sponsors were as follows:

**ORAL PRESENTATIONS**

**Tracy Jacobs**, sophomore medical student. Deep vein thrombosis gynecological surgery, a retrospective study. Sponsored by Angell, Norman, M.D., Ph.D., Department of Obstetrics and Gynecology.


Tam Mai, sophomore medical student. IFN-α & β production in the HSV-1 infected murine cornea. Sponsored by Lausch, Robert, Ph.D., Department of Microbiology and Immunology.

Belal Ghaffari, sophomore medical student. Determinants of variation in pain management practice by health care providers. Sponsored by Heins, Alan, M.D., Department of Emergency Medicine.

POSTER PRESENTATIONS

Logan Richards, sophomore medical student. Metabolome analysis of Helicobacter pylori. Sponsored by McGee, David, Ph.D., Department of Microbiology and Immunology.

Amber Brown, sophomore medical student. Small conductance Ca$^{2+}$-activated K$^+$ channels (SK3) modulate uterine contractility. Sponsored by Taylor, Mark, Ph.D., Department of Physiology.

Audra Woodruff, sophomore medical student. An analysis of two different suture materials used in arthroscopic rotator cuff repair. Sponsored by Pearsall, Albert, IV, M.D., Madanagopal, Suddakar, M.D., Department of Orthopaedic Surgery.

Justin Daigre, sophomore medical student. Regulation of cGMP-dependent protein kinase β promoter in vascular smooth muscle cells: role of SP binding sites. Sponsored by Lincoln, Thomas, Ph.D., Department of Physiology.

Nick Papajohn, sophomore medical student. Bronchodilator response of COPD patients to beta agonist and anticholinergic agents. Sponsored by Allison, Ronald, M.D., Department of Medicine.

Grant Shell, sophomore medical student. Expression of the small GTPase, RAC1, in metastatic melanoma cells. Sponsored by Fodstad, Oystein, M.D., Ph.D., Cancer Research Institute.

The Clyde G. Huggins Medical Student Research Awards were presented to Ms. Tam Mai, sophomore medical student for best oral presentation and Ms. Amber Brown, freshman medical student for best poster presentation. Both recipients are eligible to make their presentations at the Annual National Research Forum in Galveston, Texas in 2006.
Graduate Program in Basic Medical Sciences

Administration

Following re-election for a second three-year term, Dr. Mary I. Townsley served as Director of the Basic Medical Sciences Graduate Program from July, 2004 through December, 2004. Dr. Ronald Balczon was elected for a three-year term by acclamation and assumed the directorship in January, 2005.

Recruitment Activities

1. Ads were placed in the The Vanguard, and in other local college or university newspapers.
2. The Program website was updated.
3. Presentations were made to the Premedical Honors Society and Freshman Biomedical Sciences students at USA.
4. Information about the graduate program was distributed at several local high schools, JAGFEST, SCRUBS, and regional science conferences, including the eighty-second annual meeting of the Alabama Academy of Science, Inc. in Birmingham, Alabama.

Admissions

We continue processing applications to the program directly through the University Office of Admissions and/or the International Services Office. Other required materials continue to be received in the BMS Graduate Office. The Graduate Office held Interview Days in January, March, May, June and July for the Fall 2005 class. An admissions summary for the class of 2005 is shown below:

<table>
<thead>
<tr>
<th>Admissions - BMS Graduate Program</th>
<th>2001</th>
<th>2002</th>
<th>2003</th>
<th>2004</th>
<th>2005</th>
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<tr>
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<td>US</td>
<td>204</td>
<td>114</td>
<td>138</td>
<td>58</td>
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<tr>
<td>International</td>
<td>295</td>
<td>168</td>
<td>292</td>
<td>113</td>
<td>159</td>
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<tr>
<td>Applicants</td>
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<td></td>
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<tr>
<td>US</td>
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<tr>
<td>International</td>
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<tr>
<td>US</td>
<td>11</td>
<td>19</td>
<td>15</td>
<td>9</td>
<td>12**</td>
</tr>
<tr>
<td>International</td>
<td>3</td>
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<td>2</td>
<td>3</td>
<td>5</td>
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<tr>
<td>Matriculants</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>US</td>
<td>9</td>
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<td>7</td>
<td>6</td>
<td>9**</td>
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<td>International</td>
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<td>2</td>
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<tr>
<td>Average GRE</td>
<td>1668</td>
<td>1838</td>
<td>1101*</td>
<td>1170*</td>
<td>1100*</td>
</tr>
<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>
</tr>
</tbody>
</table>

*Only the sum of verbal and quantitative scores included after 2002.
**One MD/PhD (2007) matriculant completed rotations during summer semester, 2005.
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 and strategies for choosing a mentor.

New Programs/Policies/Requirements

1. The BMS Student Handbook was updated. Print copies were distributed to incoming students and an electronic copy posted to the program web site.
2. Major Professors began 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.

BMSSO-Basic Medical Sciences Student Organization

The BMSSO sponsored their annual BMSSO T-shirt design and sale to raise a portion of their operating budget for the year, hosted a holiday appreciation luncheon for BMS Graduate Faculty in December, 2004, and participated in a number of community and philanthropic activities, including "Relay for Life," throughout the year.

Extramural Support for Graduate Training

1. Dr. Townsley is the Program Director for a newly funded NIH Predoctoral Institutional Training Grant on "Cell signaling and lung pathobiology", through The Center for Lung Biology. The training program provides stipends for 6 predoctoral students in 2005. Students will receive support from the training grant for a minimum of two years and will be required to submit individual proposals for extramural funding.
2. In 2004-2005, four doctoral candidates in the BMS Graduate program (students who have completed the Qualifying Examination) were supported by individual extramural predoctoral fellowships.

Graduates

Six students completed all requirements for the Ph.D. degree during the academic year (September 2004-August 2005). They are:

Jeffrey Francis Breit
D I S S E R T A T I O N T I T L E: "Sequence and Transcription Factor Defined Topology of the VEGF Promoter and Implications in Gene Regulation"
MAJOR PROFESSOR: Mark N. Gillespie, Ph.D.
DEPARTMENT: Pharmacology
CURRENT POSITION: Scientist; Roche Biosciences, Palo Alto, California
Jason Franklin Harrison
DISSEDITION TITLE: “Altering DNA Base Excision Repair: Use of Nuclear and Mitochondrial-Targeted N-Methylpurine DNA Glycosylase (MPG) to Sensitize Gliial Cells to Chemotherapeutic Agents”
MAJOR PROFESSOR: Susan P. LeDoux, Ph.D.
DEPARTMENT: Cell Biology and Neuroscience
CURRENT POSITION: First-year COM Student, University of South Alabama

Tina Reinschmidt Hubler
DISSEDITION TITLE: “Organization and Differential Expression of the Human FKBP52 and FKBP51 Genes”
MAJOR PROFESSOR: Jonathan G. Scammell, Ph.D.
DEPARTMENT: Pharmacology
CURRENT POSITION: Postdoctoral Fellow; USA Cancer Research Institute

Qining Qin
DISSEDITION TITLE: “Myocardial Preconditioning Signal Transduction Pathways Linking Muscarinic Receptors to the Mitochondrial KATP Channel-dependent ROS Production in the Heart”
MAJOR PROFESSOR: James M. Downey, Ph.D.
DEPARTMENT: Physiology
CURRENT POSITION: Postdoctoral Fellow; Harvard University, Boston, Massachusetts

Hope Theresa Richard
DISSEDITION TITLE: “Physiology of Extreme Acid Resistance”
MAJOR PROFESSOR: John W. Foster, Ph.D.
DEPARTMENT: Microbiology and Immunology
CURRENT POSITION: First-year COM Student, University of South Alabama

Guofei Zhou
DISSEDITION TITLE: “The Role of SER/THR Phosphatase Type 5 (PP5) in a Cellular Response to Hypoxia”
MAJOR PROFESSOR: Richard E. Honkanen, Ph.D.
DEPARTMENT: Biochemistry and Molecular Biology
CURRENT POSITION: Postdoctoral Fellow; Northwestern University, Chicago, Illinois

To date, 140 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>26</td>
</tr>
<tr>
<td>Microbiology/Immunology</td>
<td>35</td>
</tr>
<tr>
<td>Pharmacology</td>
<td>33</td>
</tr>
<tr>
<td>Physiology</td>
<td>21</td>
</tr>
<tr>
<td>Cell Biology/Neuroscience</td>
<td>25</td>
</tr>
</tbody>
</table>

234
The University of South Alabama provides equal educational opportunities to and is open and accessible to all qualified students without regard to race, color, creed, national origin, sex, or qualified handicap/disability, with respect to all of its programs and activities.