ANNUAL REPORT
UNIVERSITY OF SOUTH ALABAMA
COLLEGE OF MEDICINE

October 1, 2001 through September 30, 2002
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The Annual Report of the University of South Alabama College of Medicine documents the achievements of the faculty in the areas of teaching, research, and service. These efforts and accomplishments are instrumental in enhancing the health and overall quality of life of people in the Gulf Coast, State of Alabama, and throughout the nation. The College of Medicine is pleased to share this information and invites comments and questions related to the contents of the report.

Robert A. Kreisberg, M.D.
Dean, College of Medicine
Vice President for Medical Affairs
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.


B. Articles in Press


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS

N.N. Aronson, Jr. Where Have all the Crab Shells and Roach Skeletons Gone? How Chitinases Catalyze Chitin Hydrolysis. (1) Duquesne University, Department of Chemistry and Biochemistry, Pittsburgh, PA; and (2) University of Alabama, Huntsville, AL (2002).


V. NATIONAL PROFESSIONAL RECOGNITION.

The Biochemistry faculty participated on a number of national committees this past year. Dr. N. Aronson is the President of the American Medical and Graduate Departments of Biochemistry, a Member of the National Caucus of Basic Biomedical Science Chairs and elected for a two-year term on the Nomination Committee of the American Society for Biochemistry and Molecular Biology. Dr. S. Barik was a reviewer for several journals: BioTechniques, Journal of Virology, Experimental Parasitology, and International J. Parasitology as well as being a Study Section Member of the American Heart Association, SE Affiliate. As a member of the South-Eastern Society for Parasitologists, Dr. Barik is in charge of planning their meeting in Mobile during 2003. Dr. J. Funkhouser served as an ad hoc reviewer for the Lung Respiration and Resuscitation Study Section. Dr. J. Gaubatz served on the NIH SRG1 F09 Oncology Study Section and went on a site-visit to the University of Cincinnati representing the NEIHS Program Project. Dr. Gaubatz reviewed grants for the American Federation for Aging Research as a member of their National Scientific Council. Dr. R. Honkanen is an ad hoc Reviewer for the NIH Tumor Biochemistry & Endocrinology Study Section. Dr. R. Lane was elected to the Faculty Membership in the Alpha Omega Alpha National Honor Medical Society.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

Biochemistry Graduate Students achieved excellent progress in the 2001-2002 academic year. Mark Swingle (R. Honkanen’s laboratory) was awarded a renewal of his predoctoral fellowship from NASA. Guofei Zhou (R. Honkanen’s laboratory) received a two-year Predoctoral Fellowship award from the American Heart Association for his work with Ser/Thr Protein Phosphatases. Lauren Amable while serving a rotation in Dr. Aronson’s laboratory won a travel award to the American Society for Biochemistry and Molecular Biology in New Orleans for her work on Chitinases. Dr. Rajinder Kumar and Dr. Vira Bitko, Postdoctoral Fellows in Dr. Barik’s laboratory, also received travel awards to the ASEMBA Conference (New Orleans) and International Conference on Virology (Paris), respectively.

Two second-year medical students completed summer research projects in Biochemistry. Michael Sprague made an oral presentation “Construction and Characterization of Mutant and Chimeric Protein Phosphatase 2A Molecules” based on work with Dr. R. Honkanen. Hoangnam Huynh gave a poster presentation on “Purification of BRP-39 From Mouse Mammary Glands” from studies done with Dr. N. Aronson. Biochemistry sponsored two undergraduate students through the NSF Summer Research Program. Dr. D. Hartley sponsored Tonya Cauley for her research project “Analysis of Herpes Virus Saimiri Transformation Associated Protein Type A (STP-A)” and Dr. S. Barik’s student was Corey Johnson from Stillman College, whose project was “Apoptosis in Mammalian Cells Infected with Porphoromonas gingivalis.” Dr. Toshi Ansai, from Kyushu Dental College, with a fellowship from the Japanese Ministry of Education, also worked on this project. Dr. S. Barik’s postdoctoral fellow, Dr. Vira Birko’s article on potential use of interfering RNA as an antiviral agent published in the BioMed Central Microbiology was the most on-line viewed article during March 2002. Dr. Barik was elected to serve as the President for the University Lions Club for the year 2002.
Three faculty members of the Biochemistry Department were 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. Dr. June Ayling (Department of Pharmacology) is the coordinator of the Structural Biology component at USA. Our involvement in the program resulted in: (i) NSF grant for MALDI-TOF mass spectrometer equipment critically needed for protein research in the College of Medicine and basic translational research for the USA Cancer Research Institute; (ii) Recruitment of undergraduate students in Summer Research; and (iii) Active collaboration with established Structural Biology groups at UAH and UAB. The Synchrotron at the Argonne National Laboratory was used for several of our projects, resulting in the crystal structures of a number of proteins of fundamental and clinical importance.

The Biochemistry Department recruited its newest faculty member, Dr. David A. Hartley as an Assistant Professor. Dr. Hartley has an extensive training record at the University of Massachusetts Medical Center, the Salk Institute, and Boston University. His studies are in the field of chemical communication within cells that involves tyrosine kinases. Dr. Richard E. Honkanen was promoted to Professor. The Department celebrated 25 years of service to the University and the Department by both Dr. Roger Lane and Dr. Jane Funkhouser by presenting them captain’s chairs with the University emblem.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


Y. Liu, J. Li, K.B. Oh, B.S. Pace, and J.J. He. HIV-1 Tat Protein-Mediated Transactivation of the HIV-1 LTR Promoter Is Potentiated by a Novel Nuclear Tat-Interacting Protein of 110 kDa, Tip110. J. Biol. Chem. 277(26):23854-23863 (2002).


B. **Articles in press.**


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


B.S. Pace. (1) Sickle Cell Disease: New treatments; and (2) Sickle Cell Disease as a Community Priority. Mercy Medical Center, Springfield, OH (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

L.A. Aldes served as reviewer of the Journal of Comparative Neurology, Brain Research, Journal of Neurophysiology, and Experimental Brain Research, and as ad hoc for the National Science Foundation.

R.D. Balczon served as Study Section Member of the Louisiana Lung Cancer Trust Fund Board, and on the editorial board of Frontiers in Bioscience.

Y.M. Bhatnagar served as ad hoc reviewer for Biology of Reproduction.

S.D. Critz served as ad hoc reviewer for Journal of Pharmaceutical and Experimental Therapeutics, Journal of Molecular and Cellular Cardiology, and Cardiovascular Research, and as ad hoc peer reviewer for the Alzheimer's Association.

P.A. Fields served in the following capacities: on the Editorial Advisory Board of Trends in Reproductive Biology; on the Membership Committee of the Society for the Study of Reproduction; on the By-Laws Committee of the Society for the Study of Reproduction; and as ad hoc reviewer for NSF and USDA Grants.

A.L. Gard served in the following capacities: as a regular member of the Molecular, Cellular and Developmental Neuroscience 6 (MCDN-6); Center for Scientific Review, NIH; as an ad hoc reviewer for the Oak Ridge Associated University for Junior Faculty Enhancement Awards 2002, Journal of Neurochemistry, Journal of Neuroscience Research, Glia, and Experimental Neurology.

S.G. Kayes served in the following capacities: as a member of the American Society of Parasitologists; on the editorial board of the Journal of Parasitology; as section editor for Helminth Immunology; as a member of the Business Advisory Committee; and as a member of the Bylaws Revision Committee. He also served as Chair of the Resolutions Committee of the Southeastern Society of Parasitologists; and as a reviewer for the Journal of Parasitology, American Journal of Tropical Medicine and Hygiene, American Journal of Pathology, Louisiana Lung Cancer Trust Fund, Legislative Alert Committee, and American Society of Parasitologists.
S.P. LeDoux served as a member of the following: NIH Radiation Section; DOE Low Dose Radiation Study Section; NIH Review Panel for RFA ES02-004 - "Functional Proteomics: Application to Environmental Health Research; NIH Review Panel, R13 ES0-11784-01, Ron Hines, PI; NIH Special Emphasis Panel, R01, Dr. Yoke Kow, PI; NIH Site Visit Team, P01 ES11163, Dr. Paul Doetsch, PI, Emory University; NIH Site Visit Team, P01, Dr. John Faulkner, PI, University of Michigan; and NIH Review Panel, Exposure Assessment Methods for Cancer Research.

B.S. Pace served in the following capacities: as a member of the NIDDK Review Branch Subcommittee D; and as a reviewer for: American Journal Hematology, Southern Medical Journal, Gene Therapy, Blood, Transgenic Research, and Clinical Pediatrics.

G.L. Wilson served in the following capacities: as Associate Editor of Clinical Science, London; as Consultant: National Institute of Environmental Health Sciences - Site Visit Team - Center Grant - University of New Mexico; National Institute of Environmental Health Sciences - Site Visit Team - Center Grant - State University of New York, Stony Brook; National Cancer Institute - Site Visit Team - Subcommittee D - Clinical Studies; National Cancer Institute - Site Visit Team - Program Project - Georgetown University; and National Institute on Aging - Site Visit Team - Program Project - University of Virginia.

W.E. Zimmer served in the following capacities: as a member of the Peer Review Committee - American Heart Association (Vascular Biology); the Joint Steering Committee for Public Policy; the USDA Study Section -- Animal Growth and Nutrient Utilization Program; and the NIH Study Section -- ZRG-1SSS-2.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

In the past year one student received her Ph.D. from the Department. Dr. Heather Foley completed a thesis entitled "The Role of STAT-3 in γ Globin Gene Repression by Interleukin-6." This work was accomplished under the direction of Dr. Betty Pace. Dr. Foley is presently pursuing a position in industry.

The Department experienced some personnel changes in the last year. Dr. Patsy Itaya left the Department to seek less-demanding opportunities in the Mobile area; Dr. Solomon Ofori-Acquah was appointed as an Assistant Professor in the Department; Dr. Stuart Critz was promoted from Assistant Professor to Associate Professor; and Dr. Glenn Wilson's appointment was changed from Interim Chair to Chair. Presently, the Department is actively recruiting two new faculty members at the Assistant Professor level.

To enhance Departmental scholarly activities, five distinguished scientists were invited to visit the Department and present seminars. Dr. Douglas R. Spitz, from the University of Iowa, presented a seminar on September 20, 2001; Dr. Isabel Mellon, from the University of Kentucky, presented a seminar on January 17, 2002; Dr. Margaret M. Tarpey, from the University of Alabama at Birmingham, presented a seminar on March 7, 2002; Dr. Kathryn Held, from Mass General Hospital/Harvard Medical School, presented a seminar on April 11, 2002; and Dr. Gregory Brewer, from Southern Illinois University, presented a seminar on May 23, 2002.

During the past year, the Department has remained committed to supporting the teaching mission of the College and University. Besides carrying the heaviest teaching load for medical education of any department in the Basic Sciences, Departmental faculty also taught a course in Gross Anatomy to Physician’s Assistant students in the College of Allied Health and a remedial course in Neuroanatomy to medical, dental, and graduate students from across the nation. For the coming year, the department will continue to be focused on providing quality educational experiences to a wide variety of students.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

None.
IV. PRESENTATIONS


S. V. Gibson. Transmissible Spongiform Encephalopathies: Biosafety Level 3 Operations. Chronic Wasting Disease Working Group, College of Veterinary Medicine, Auburn University, Auburn, AL (2002).


V. NATIONAL PROFESSIONAL RECOGNITION

Christian R. Abee, D.V.M., is a member of the Council on Accreditation of the Association for Assessment and Accreditation of Laboratory Animal Care International (AAALAC), 2000-2003; a member of the program organizing committee for the ILAR Workshop on "International Perspectives on the Future of Nonhuman Primate Resources for Biomedical Research" of the National Research Council of the National Academy of Science, and invited speaker in the National Academy of Science Workshop on Rhesus Monkey Demands in Biomedical Research, April 20, 2002.

Alan G. Brady, D.V.M., is a member of the ACLAM Foundation Committee, American College of Laboratory Animal Medicine Foundation, and head of grant reviews for the ACLAM Foundation; a member of the Board of Directors, Alabama Association for Biomedical Research; secretary, Association of Primate Veterinarians; member of the Board of Directors, and editor of the APV Newsletter; and a consultant on animal care to the U.S. Air Force, Keesler Air Force Base, MS.

Susan V. Gibson, D.V.M., is chair of the Committee on Continuing Education, American College of Laboratory Animal Medicine, 1999-2002.
Lawrence E. Williams, Ph.D., is a member of the Program Committee, American Society of Primatologists, 2002-2005.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Comparative Medicine is one of the six basic medical science departments of the College of Medicine. In addition to research and educational responsibilities, the department provides professional and technical support for all animal research laboratory facilities and for the administration of the laboratory animal care and use program for the University. Comparative Medicine occupies approximately 47,000 square feet divided between two geographically separate sites. Renovation of existing facilities within the Medical Sciences Building Biologic Research Laboratory was completed in 1996 and has increased the overall size of this facility to approximately 35,000 square feet. The Primate Research Laboratory occupies 12,000 square feet. The department is composed of five core units. 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 Department’s Primate Research Laboratory maintains a large breeding and research colony of Bolivian squirrel monkeys (Saimiri boliviensis). Departmental research efforts are primarily in two areas. Studies of the reproductive biology of the squirrel monkey have been carried out as a multi-disciplinary program, including investigators from the Departments of Pharmacology, Pathology, and Comparative Medicine. A second area of investigation is focused on development of medical and husbandry management strategies to optimize squirrel monkey reproduction in captivity.

In the fall of 2001, a large colony of owl monkeys (Aotus sp.) was acquired. This colony is supported by the National Institute of Allergy and Infectious Disease for the production of owl monkeys for malaria research and for research into the basic biology, reproduction, and diseases of the owl monkey. Our previous experience with this genus revealed a high occurrence of heart disease, concentric left ventricular hypertrophy, dissecting aortic aneurysms, and congestive heart failure consistent with hypertension. Investigations to document hypertension and progression of heart disease will be a focus of departmental research with emphasis on model development. With the addition of this colony, the department has the largest breeding center for neotropical primates in the United States.

The Department is carrying out a major research program aimed at improving our understanding of blood product safety. With the emergence of a new variant of Creutzfeldt-Jakob Disease (vCJD) associated with Bovine Spongiform Encephalopathy in Europe, considerable concern has been raised regarding the safety of human blood products. This research program is investigating the transmissibility of CJD and vCJD from blood and tissues obtained from patients suffering from these diseases.
The department is committed to meeting the needs of the complex biomedical research program within the College of Medicine and providing an environment conducive to departmental and interdepartmental research. Comparative Medicine is composed of five full-time and two jointly appointed faculty members. Dr. Jonathan Scammell, Professor, has a primary appointment in the Department of Pharmacology with a joint appointment in the Department of Comparative Medicine. Dr. Marcelo G. Horenstein, Assistant Professor, has a primary appointment in the Department of Pathology with a joint appointment in the Department of Comparative Medicine. Dr. Julio Ruiz, formerly the Director of the Argentine Primate Center (CAPRIM) in Corrientes, Argentina, was appointed Associate Professor of Comparative Medicine in January 2002. In addition, there are 28 administrative, technical, and research staff.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF EMERGENCY MEDICINE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.
   None.

B. Articles in press.
   None.

II. PUBLISHED ABSTRACTS
   None.

III. BOOKS PUBLISHED
   None.

IV. PRESENTATIONS


J. Randle Adair. BPH: A Primary Care Perspective. (1) Pensacola NAS Family Practice Residency Program, Pensacola, FL; (2) Eglin AFB Family Practice Residency Program, Fort Walton, FL; and (3) Veterans Administration, Montgomery, AL (2002).

Frank S. Pettyjohn. Aviation Cardiology Review. FAA Cardiology Consultants Panel. FAA, Oklahoma City, OK (January 2002).
V. NATIONAL PROFESSIONAL RECOGNITION.

F.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 Chancellor, International Academy of Aviation and Space Medicine; Board of Directors, American College of Emergency Physicians (Alabama Chapter); and President of Medical Staff, University of South Alabama Medical Center.

M.L. Sternberg served in the following positions: Vice Chairman, Department of Emergency Medicine; Member, Council on Medical Education for State of Alabama; Board of Directors, Southwest Alabama Emergency Medicine Services; Board of Directors, American College of Emergency Physicians (Alabama Chapter); Chairman, Bylaws Committee, American College of Emergency Physicians (Alabama Chapter); Public Relations Committee, American College of Emergency Physicians (Alabama Chapter); President Elect, American College of Emergency Physicians (Alabama Chapter).

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 remains a primary effort. 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 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., Marion C. Berg, M.D., J. Randle Adair, D.O., and W. Scott McNair, M.D., were again selected to receive recognition at the honors convocation of the College of Medicine graduating class of 2002. W. Scott McNair, M.D., was recognized as Best Resident by the graduating class of 2002. The medical students continue to select the Emergency Medicine rotation as one of the most-sought-after training sites. The Department of Emergency Medicine was a candidate for Best Clinical Rotation and Michael L. Sternberg, M.D., a candidate for Best Clinical Instructor for the year of 2002.

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. J. Randle Adair, D.O., directs the third-year internal medicine students and teaches the addiction medicine lectures.

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.

Currently, Marion C. Berg, M.D., and David N. Olson, M.D., are the Emergency Medicine Residency Trained Physicians serving as the primary contact individuals for the Department. Additional staff physicians joining the department and providing a broad-base for educational efforts include: P. Conrad McGuire, M.D., Residency Trained in Internal Medicine and Pediatrics: Lynne A. McDonnell, M.D., Residency Trained in Internal Medicine and Pediatrics; and James Y. Wan, M.D., Residency Trained in Internal Medicine.

FACULTY DEVELOPMENT: Joint Faculty activities continue with the Departments of Pediatrics, Internal Medicine, Surgery, and Radiology. Dr. Samy Salaeb 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 2001-2002 program year, the Department of Emergency Medicine continues to support the operation of the University of South Alabama Medical Center, Level I Trauma Center and Emergency Department. The Department is 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. Mario F. Guillen, M.D., Thomas J. Kelly, D.O., Barbara C. Mitchell, M.D., Antonio L. Pacheco, M.D., Terry N. Rivers, M.D., and James Y. Wan, M.D., provide 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, textbooks on CD ROM, as well as a stand-alone Micromedex system.

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 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 its seventh 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.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF FAMILY PRACTICE & COMMUNITY MEDICINE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

Ron R. Lee, M.D., joined Albert Pearsall, M.D., of the Department of Orthopedics to organize the second annual Primary Care Sports Medicine Workshop and Review Meeting held June 6-8, 2002, in Sandestin, FL.

Allen Perkins, M.D., served as Co-Course Director for a national forum on teaching residents and students community medicine, which was attended by approximately 75 educators from around the country. The forum was held in conjunction with the Society of Teachers of Family Medicine’s spring conference in San Francisco. Dr. Perkins was also appointed to the Communications Committee of the Association of Family Practice Residencies.

E. Lee Taylor, M.D., served on the Drug Utilization Committee of the Alabama State Medicaid Agency.
VI. **BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRAMS**

**Ehab A. Molokhia, M.D.**, joined the faculty in July after having completed his residency in Family Practice at USA. Dr. Molokhia's special interests lie in obstetrics, pediatrics, and community medicine.

**Kara A. Townsend, Pharm.D.**, began an adjunct faculty appointment in September, replacing Dr. Amy Herndon, who returned to Memphis to be married. Dr. Townsend completed her primary care pharmacy residency at St. Louis College of Pharmacy. She will continue to coordinate inpatient and outpatient clinical experiences for Auburn University pharmacy students and interact with residents and faculty in Family Practice.

**E. Lee Taylor, M.D.,** and **Allen Perkins, M.D.,** were recognized by the Class of 2002 as Distinguished Faculty Members.

H. C. Mullins, M.D., Founding Chair and Professor Emeritus, was honored by the creation of a student award in his name. The award will be given annually to the graduating student who distinguished himself or herself during the Family Practice clinical experience and who best represents the principles and philosophy of Family Practice.

**E. Lee Taylor, M.D.,** was honored as Alumnus of the Year by the University of North Alabama at its Fall 2001 Homecoming.

**Allen Perkins, M.D.,** and **Shannon Morgan, M.D.,** have coordinated a significant curriculum change to include personal digital devices/assistants and a data base tracking mechanism for the residency experience.

The Department continues to be clinically productive despite the loss of faculty, averaging 1,800 patients-per-month in the Family Practice Center, Springhill Avenue Campus. The Department also directs and provides all university-wide student health activities.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.
IV. PRESENTATIONS.


J.B. Bass. Tuberculosis, Mummies, and Vampires: An Interrupted History of Man, Cows, and the Arts. (1) Louisiana State University, New Orleans, LA; and (2) Infectious Disease Update Seminar, USAMC, Mobile, AL (2002).


J.A. DiPalma. (1) Pantoprazol® Relief of Nighttime Heartburn. Wyeth Poster Event; (2) Course Director, Annual Post-Graduate Course: Board Review in Gastroenterology; and (3) Improving Compliance for Colonoscopy: Preparation and Sedation. Annual Post-Graduate Course: Board Review in Gastroenterology; and Am. Coll. Gastroenterol., Las Vegas, NV (2002).


J. Haynes. Legal Implications Regarding the Use and Dispensing of Opioids for Pain Management in Patients With Sickle Cell Disease. Tuskegee University, Tuskegee, AL (2002).

J. Haynes. Update on Clinical Implications of Sickle Cell Trait. Tuskegee University, Tuskegee, AL (2002).


J.L. Herrera. Chronic Hepatitis C. Medical Grand Rounds, UAB School of Medicine, Montgomery Program, Montgomery, AL (2001).


J.L. Herrera. (1) Hepatitis C as a Public Health issue; and (2) Occupational Considerations With Treatment for Hepatitis C. 87th Am. Occupational Health Conf., Chicago, IL (2002).


B.A. Warner. ACTOS. Primary Care Physicians, Montgomery, AL (2002).

B.A. Warner. Oral Treatment Type 2 Diabetes: Piecing the Puzzle Together. (1) Family Association, Asheville, NC; and (2) Pike County Medical Association, Troy, AL (2002).

V. NATIONAL PROFESSIONAL RECOGNITION


W.A. Broughton served in the following capacities: Member ATS/ISDA Consensus Panel For the Statement on Community Acquired Pneumonia (Diagnosis of C.A.P.); Vice-President: Alabama State Thoracic Society and overall Tri-State Thoracic Conference Program Chairman; Board Member: Tri-state Respiratory Conferences; Program Planner: For USA College of Medicine ATS Tri-State Thoracic Society Meeting.

Michael V. Cohen served on the editorial boards of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine. He continues to serve as a member of the NIH study session on clinical and integrated cardiovascular physiology and pathophysiology.

R.M. Culpepper served in the following capacities: Assistant Editor of Southern Medical Journal; Referee of Kidney International, American Journal of Medicine, American Journal of Physiology; National Kidney Foundation; and President of National Kidney Foundation of Alabama.

J.A. DiPalma served as the Course Director of the Annual Post-Graduate Course and on the Board of Directors for the ACG Institute for Research and Education. Dr. DiPalma was elected to the Board of Censors for the Medical Society of Mobile County and the Mobile County Health Department Board of Health and was also elected Secretary. He was also appointed to the Merck Gastrointestinal Osteoporosis Advisory Board. Dr. DiPalma is the Series Editor on Diagnostic Physiology Testing and for a series on Foodborne Illness for Practical Gastroenterology.

J.G. Hardin was listed in Best Doctors, Inc.


J.L. Herrera was appointed to the Board of Directors of the Alabama Chapter of the American Liver Foundation. He serves on the Education Committee of the American Association for the Study of Liver Diseases. He is a reviewer for the American College of Gastroenterology, Southern Medical Journal, American Journal of Medicine, Alcoholism: Clinical and Experimental Research, Mayo Clinic Procedures, Journal of Clinical Gastroenterology, and Digestive Diseases and Sciences.

Clara V. Massey served as District Counselor for the Alabama Chapter of the American College of Cardiology.
C. McCombs served as Program Director: Sequella Foundation Contract, "Peer Review Grants Program," 65% effort, July 1, 2001 - June 30, 2002. As Program Director: Sequella Foundation Contract, she will spend 100% of her effort from July 1, 2002 - September 30, 2002, designing and administering a new grants program to support research on a vaccine for tuberculosis.

J.P. Michalski serves on the Medical Advisory Board of the American Behcet’s Association.

Frank S. Pettyjohn served as cardiology consultant to the Federal Aviation Administration: Board of Directors and Council, International Academy of Aviation and Space Medicine.

K. Ramsey was elected to the Council of the Southern Society for Clinical Investigation, to serve a three year term (2000-2003). Dr. Ramsey began his 2-year term as Secretary (2002-03) for the Society for Healthcare Epidemiology. Dr. John A. Vande Waa and Dr. Benjamin Estrada are co-Directors of the USA Travel Medicine Clinic.


VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Division of Cardiology continues to emphasize excellence in clinical cardiology, education of house staff and medical students, and the development of the academic faculty. The Cardiology Fellowship continues to be a highly sought training program by graduating residents.

During the 2001-2002 program year, the Division of Cardiology provided direction and supervision of the Heart Station for the University of South Alabama Medical Center. Support of the non-invasive studies conducted at USA Knollwood Park Hospital and USA Children’s and Women’s Hospital is provided. Installation of new echocardiographic systems has been implemented. Automated Semens equipment for cardiovascular catheterization laboratories have been installed and are fully operational at the University of South Alabama Medical Center.

The recruiting program for the Division of Cardiology continues to be active. A broad-based, non-invasive and invasive section of the Division is being recruited. Ernesto Umana has completed his cardiology fellowship and is waiting visa approval to develop a nuclear cardiovascular program, which will include state-of-the-art MRI cardiology evaluation.

The Division of Endocrinology/Metabolism is a fully integrated interdepartmental division between Internal Medicine and Pediatrics. House Officers are exposed both to Pediatric and Internal Medicine as well as adolescent endocrine problems in both inpatient and outpatient settings. The division is engaged in active teaching involvement of Internal Medicine, Pediatric, and Family Practice residents, structured conferences involving the clinical faculty, house staff, and medical students as well as full-time endocrine faculty. Patients will present with the full spectrum of endocrine disease including: pituitary, thyroid, parathyroid, gonadal, and diabetic problems.
Dr. Rodriguez joined the Division of Gastroenterology in June 2001. The Division occupied new academic offices at the USA Knollwood Pavilion and opened a new clinic and Digestive Disease Health Center GI Laboratory. The Division started a new elective in Clinical Nutrition for senior students.

The Division of Geriatrics, established in December of 2000, has continued to pursue excellence in patient care and education. We continue to offer residents, medical students, physician assistant students, and the geriatric nurse practitioner students a broad geriatric experience. We have a firm presence in three nursing homes, with a patient base of approximately 165. This is unique to the residents, PA's, NP's and M-3's. They are exposed to a complex integrated team-care approach to management. As well, we have established a Geriatric Assessment Clinic on Thursday mornings in which a detailed evaluation of frail, elderly patients is performed by the residents, physician assistant students or geriatric nurse practitioner students, as available. A team conference is held to discuss a plan of care focusing on the geriatric principles of function and quality of life.

The Division of Infectious Diseases is composed of three full-time faculty, Drs. Keith M. Ramsey, John A. Vande Waa, and William Kevin Green. Dr. Eduardo Calderon is in his second year as a Fellow, and Dr. Shannon Tyler joined the Division as a first year Fellow. The Division continues to offer comprehensive Infectious Disease Services and Infection Control expertise to both the greater Mobile area and the Gulf Coast region.

The Division of Medical Education has five full-time faculty members, one half-time member, our two Chief Residents, and affiliated faculty from other divisions. We are responsible for coordinating the Department's efforts in the education of residents and medical students. Currently, we staff 80% of general medicine clinics at Health Services. We do the large majority of precepting in the Introduction of Clinical Medicine and Physical Diagnosis courses, as well as direct and precept the third and fourth year Internal Medicine Clerkships.

Dr. Mike Kirkpatrick has retired from full-time service in the Pulmonary Division, but continues to serve as Attending Physician on the Consult Service four months per year. Dr. Ron Allison now serves as Interim Director of the Division as well as the Program Director of the Pulmonary Fellowship. The two-year fellowship program continues to accept and train one new fellow per year. Dr. Rodrigo Morales finished his fellowship training and has remained to complete six months Sleep Medicine Fellowship and six months as a Faculty Attending Physician.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


W. Wertelecki. Suggestions of Strategic Options. WHO Meeting on Collaboration in Medical Genetics, Toronto, Canada (2002).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. W. Wertelecki continues to serve as Secretary and Treasurer of the World Alliance of Organizations for the Prevention of Birth Defects, and has been appointed as an expert to the WHO-EURO Committee for Birth Defects Prevention. Dr. Wertelecki serves as Director of the Ukrainian-American Birth Defects Program (UAEDP) and the American Birth Defects Surveillance and Prevention Program. In addition, he serves as Webmaster of the International Birth Defects Information Systems (IBIS) web site, which attracts between 500 and 1000 visitors per day.
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 the IBIS web site, developed as one component of the USAID-sponsored program to provide an informational resource to Ukraine. This exercise requires each student to engage in several hours of web explorations, focused on a specific domain of human developmental pathology. The majority of this year’s class have rated the course as "very good" or "excellent" and the students have consistently scored above the national average on the discipline of genetics, on the USMLE Step 1.

Clinical activities, directed by Dr. J. Martinez, 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. Increasing demand for clinical services has required an expansion of the frequency of outreach clinics held in Dothan and Montgomery, Alabama. Yearly, over 700 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, directed by Dr. C. Tuck-Muller, maintained CLIA and CAP certification and is also a submitting laboratory for the Southwest Oncology Group (SWOG). The growing importance of chromosome analysis in neoplasia has led to a 25% increase in oncogenetic studies in our laboratory during the past year. Molecular cytogenetic studies have also increased by about 35%, 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, directed by Dr. T.J. Chen, is a reference laboratory for the diagnosis of human genetic diseases. Currently, the laboratory performs 14 DNA-based tests, including Fragile-X syndrome, Prader-Willi syndrome, and Sickle Cell disease. Population screening for Cystic Fibrosis disease and DNA paternity testing are recently-added services. In addition to our clinical service, the laboratory is also very active in clinical research, and has identified a new type of mutation on the RPS6KA3 gene, which causes the Coffin-Lowry Syndrome. Our research projects have been focused on the development of an early-detection method for colon cancer. We are particularly interested in the molecular basis of human mental retardation diseases, in which translational regulation of gene expression in the human brain is involved. We have studied a newly cloned human RNA binding protein gene (hCPEB), which plays an important role on the translational regulation.

The Department continues to foster close links with community organizations. Our programs continue to receive financial assistance from the Alabama Department of Mental Health/Mental Retardation (MH/MR) and the Alabama Department of Rehabilitation Services (ADRS). The BD program is a "de facto" partner of the Alabama Department of Rehabilitation Services (ADRS) since our outreach Genetic BD Surveillance Nurses are housed in ADRS facilities in Dothan and Montgomery. Integrating BD surveillance with care and prevention is a national health priority and, to this end, we received continued
funding for our Special Project of Regional and National Significance (SPRANS) project, which has led to the development of strategies now being integrated into the BD program.

The Alabama BD Surveillance and Prevention Program received renewed funding from CDC to continue BD surveillance on behalf of the State of Alabama. One component of the program is to coordinate the State with the prevention of the recurrence of Neural Tube Defects. Voluntary agreements were signed with approximately 30 hospitals throughout southern Alabama, and trained "genetic" nurses were deployed to obtain active, population-based BD information. This program provides access to medical homes and hospitals in 20 counties and for nearly 32% of state births. Under the current CDC cooperative agreement, we were able to expand surveillance from two to nearly 30 counties.

It is relevant to point out that a recent report by "Trust for America's Health" surveyed state birth defects surveillance systems and rated them on a scale from "A" to "F." Eight states rated "A"; 14, "B"; 10, "C"; 11, "D"; and 9, "F." Alabama ranked "B." We achieved this without state funding, while virtually all "A" programs received substantial state support.

Our program in Ukraine is a success and has earned the endorsement of the President of Ukraine and the Academy of Medicine. USAID has offered to continue our program during 2003 and 2004. USAID-sponsored activities are relevant to the UAP project because the activities in Ukraine mirror those proposed for Alabama. For example, we established 5 OMNI Centers in Ukraine and partner with nearly 3,000 neonatologists to enhance early medical interventions, such as those proposed for Alabama. We also developed another international website which attracts over 250,000 visitors per year. This site can be adapted for an Alabama/Gulf Coast regional Teratology Information System and as a resource for telemedicine.
2001 - 2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

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.

Dr. John W. Foster served as Vice Chair for the 2002 Gordon Conference on Microbial Stress Responses. He continues to serve as Reviewer for Journal of Bacteriology, Molecular Microbiology, and The United States Department of Agriculture. He was an Invited Speaker at the Society of General Microbiology Symposium; Gene Expression in the Natural Environment at the University of Warwick, UK. Dr. Robert N. Lausch continues to serve as Special Reviewer, Visual Science, A Study Section of the National Eye Institute and also serves on the Member Panel of Primary Reviewers for the Journal of Immunology. Dr. David J. McGe served as an Ad hoc grant reviewer for NIH.

Dr. John E. Oakes has served on the Member Panel of Primary Reviewers, Journal of Immunology since 1997. He also served as Guest Editor for Investigative Ophthalmology and Visual Sciences. Dr. Herbert H. Winkler was an Invited Speaker at the Leopoldina International Symposium on Parasitism, Commensalism, Symbiosis – Common Themes, Different Outcome in Würzburg, Germany. He continued to serve on the Editorial Board of Infection and Immunity. Dr. David O. Wood served as an Ad Hoc grant reviewer for the American Institute of Biological Sciences.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Microbiology Department hosted three summer students: Apurva Triveda, second year medical student, completed a summer research project in Dr. Coggin's lab, entitled "Mapping of T Cell Epitopes of a 37kDa Oncofetal Antigen/Immature Laminin Receptor." Michelle Johnson, from Judson College, learned new research techniques in Dr. Wood's lab, and Kelly Scarborough, a volunteer from the Alabama School of Math and Science, attempted to develop a simple and efficient method to construct chimeric proteins. The proteins of interest were the 5 translocase paralogs from Rickettsia prowazekii and the ATP/ADP translocases from various other organisms.

In preparation for the new interdisciplinary biomedical science Ph. D. program, Drs. David Wood and James Rohrer served on the committee to determine what the first two semester courses would contain. Dr. Wood contributed to the subcommittee on the first semester course and Dr. Rohrer contributed to the subcommittee dealing with the second semester. Drs. John Foster, David Wood, Herbert Winkler, and David McGee put together a curriculum for the bacteriology portion of the graduate mini-Microbiology course to be taught in January 2003, and Drs. Oakes, Lausch, and Rohrer formulated a curriculum for the Immunology and Virology portions of the mini-Microbiology graduate course. Dr. Rohrer has been working as course director for the Fundamentals course which will be composed of the graduate mini-Microbiology, Cell Biology, Physiology, and Pharmacology courses taught in the spring semester 2003. Dr. Lausch has been working to put together the Immunology part of the Basic Techniques course for the first year Ph. D. students starting August 2002.

Dr. Joseph Coggin was awarded Patent Number US6,335,174 B1, "Oncofetal Antigen Specific T-Lymphocyte Mediated Immune Response: Manipulation and Uses of Oncofetal Antigen Specific CD4, CD8 Cytotoxic and Suppressor T Cells and Interleukin-10." This and several other patent applications submitted to the US. Patent Office by Drs. Coggin, Rohrer and Adel Barsoum are the basis for a pending license agreement between SAMSF and a biotech vaccine company.

Dr. David McGee, our newest Assistant Professor, is conducting research on Helicobacter pylori, a helical-shaped, micro-aerophilic, motile, Gram-negative bacterium. This bacterium spends most of its time in the human stomach and infects 50% of the world's population with a range of disease severity from gastritis and peptic ulcers to gastric cancer and MALT lymphoma. H. pylori is the only bacterium that causes cancer and serves as a model for pathogen-induced carcinogenesis. The ability of this organism to cause these diverse diseases is not well-understood and the long-term goal of Dr. McGee's research is to cast light on this important public health problem. Dr. McGee studies several major virulence traits of H. pylori to understand how they contribute to disease progression. His recent focus has been on arginase. He found that arginase is necessary for protection of H. pylori from acid and may contribute to the ability of H. pylori to colonize mice. Several research projects include: i) purifying arginase to study its biochemical features, ii) study the arginase promoter regulation in an H. pylori background, iii) study the importance of other nitrogen metabolism enzymes in arginase activity, and iv)
determine the importance of nitrogen metabolism enzymes, including arginase, in virulence. Upon completion of these projects, he hopes to have a better understanding of how arginase is regulated transcriptionally and post-translationally, and how arginase and other nitrogen metabolism proteins are involved in virulence.

The primary focus of Dr. John Foster's lab continues to be the robust acid resistance of *Escherichia coli*. However, his lab has recently initiated two new lines of investigation. The first is a collaborative project with Auburn University scientist Dr. Stuart Price to develop a therapeutic cocktail of *E. coli* O157:H7-specific bacteriophage. The O157:H7 strain is particularly virulent -- causing hemorrhagic colitis that is sometimes fatal. The reservoir of the organism is the gastrointestinal tract of cattle, the contents of which can soil beef products during processing and contaminate hamburger. Oral administration of a viral mix to cattle is hoped to kill the pathogen without affecting commensal strains of *E. coli*. Another new project is a study of the marine microbe *Vibrio vulnificus*. This organism heavily contaminates oysters in the Gulf of Mexico causing septicemic disease in immuno-compromised hosts. When this organism is placed at cold temperatures, it transforms into small coccoid forms that are alive but dormant. His laboratory is investigating possible roles for a growth stimulating factor and a cold-induced inhibitor, both of which are produced by the organism itself. The hypothesis to be tested is that individual organisms communicate with each other using these compounds to signal entry and/or exit from the dormant state.

Research in the laboratories of Drs. Robert Lausch and John Oakes is focused upon identifying the molecular events which lead to an inflamed eye following bacterial and viral infections. Recently, funds needed to obtain state-of-the-art DNA microarray gene analysis instruments were provided by the Lions/USA Eye Research Foundation, the Department of Microbiology and Immunology, the University of South Alabama College of Medicine, and a matching grant of $58,000 from the Lions Club International Foundation (LCIF). Thus, DNA microarrays can now be constructed and used to screen inflamed ocular tissue for changes in the expression of hundreds of genes known to be involved in inflammatory processes. The new DNA microarray technology will allow the vision scientists to complete in a matter of 1 - 2 days genetic research that by conventional methods would take months to years to complete. These experiments will provide new insights for novel therapeutic strategies to reduce the severity of corneal inflammation.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


P. Maertens. The Inherited Epilepsies. Pediatric Grand Rounds, University Hospital, Jackson, MS (2002).


J. Rothrock. Fine Tuning Your Neurologic Exam, Evaluating Dizziness, Stroke Prevention & Treatment. Neurology Review for Primary Care Medicine, University of South Florida, Duck Key, FL (2002).


V. NATIONAL PROFESSIONAL RECOGNITION.

B. Bassam served as a committee member, American Association of Electrodiagnostic Medicine Training Program, and as national examiner, American Board of Electrodiagnostic Medicine.

W. Hamilton served on the advisory board, Gulf Coast Epilepsy Chapter, and as Educational Advisor, Alabama Osteopathic Medical Association.

P. Maertens served as editor and member of the Editorial Board of the Journal of Neuroimaging, member of the Program Committee of the Society of Neuroimaging, and member of the Examination Committee of the Society of Neuroimaging.

J. Rothrock served in the following capacities: Associate Dean for Clinical Research, University of South Alabama College of Medicine; editor-in-chief, Headache, the journal of the American Headache Society; associate editor, Neurology Network Commentary; ambassador for the joint American Academy of Neurology/American Headache Society Neurology Ambassador Program; member of the national board of directors for the American Headache Society; and was cited in America’s Top Doctors.

R.M. Zweifler served in the following capacities: Editor, eMedicine Neurology; fellow, American Stroke Association Stroke Council; member, Member Reviewer Network, American Academy of Neurology; cited in America’s Registry of Outstanding Professionals; cited in National Register’s Who’s Who in Executives & Professionals; lifetime member, National Registry of Who’s Who; fellow, Royal Society of Medicine; lifetime member, Strathmore’s Who’s Who; and stroke task force member, American Stroke Association Southeast Affiliate.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The relocation of Department of Neurology's outpatient office operations to USA Knollwood Park campus has led to an increase in patients evaluated, and improved our patient and insurance mix. Additionally, the number of patients we admit to USA Knollwood Hospital and the USA Long-term Care facility has increased over the last year. Neurology residents' performance on national in-service neurological examination has significantly risen, and our resident applicants are more qualified. We initiated neurology teaching into an integrated course with psychiatry for third-year medical students which, down the road, should pay dividends in recruiting resident applicants. For this academic year, we are also responsible for training senior medical students as a required neuroscience rotation.

Dr. Richard Zweifffer continues his active collaborative and independent clinical research program in acute stroke treatment and prevention. He serves as Chair of the American Heart Associate/American Stroke Association-sponsored Mobile Regional Operation Stroke, implemented to raise the standard of care for patients with stroke in the South Alabama region, and as a member of the Alabama State Stroke Task Force. His outside funding continues to be solid, and his contributions nationally are noteworthy.

Dr. John Rothrock was appointed Associate Dean for Clinical Research, which has decreased his participation in activities of the Department of Neurology by approximately 20%. During the past year, Dr. Rothrock, who established the USA Headache Center, continues to provide outstanding clinical service to patients throughout the Southeast and to raise the standard of care for headache through research. Despite a net reduction in the overall clinical staff, USA Headache Center has recorded its highest number of patient visits to date. The Center has participated successfully in multi-center national trials involving the use of botulinum toxin for headache suppression, the evaluation of topiramate for migraine prophylaxis, the evaluation of zonisamide for migraine prophylaxis, and the use of oral sumatriptan for acute migraineous headache. In spring of 2001, the editorial office for Headache was moved from the Mayo Clinic to USA Knollwood campus, and ten issues of the journal have been published from this office over the past year.

Dr. Amelito Malapira provides neurorehabilitation services, and Botox treatment. Unfortunately, because of visa difficulties, Dr. Malapira will depart our program before the first of next year. This will create a significant void in providing the services noted above, as well as impact our stroke program call and services.

Dr. Bassam A. Bassam continues to be the sole performer of electromyographic and nerve conduction studies, which represents a significant source of patient revenue. In addition, Dr. Bassam actively instructs our residents in the areas of EMG/NCV and peripheral neurology, and is on the National Committee of the Electrodiagnostic Association.

Dr. Jane Boggs left our program on August 21, 2002. She was our residency training program director and the head of the epilepsy program, which included our inpatient epilepsy monitoring unit at USA Knollwood Park Hospital. This was a
considerable financial resource, and her departure will make a significant impact upon our current fiscal year budget.

Dr. William Hamilton has assumed the residency training program directorship, continues to be the director of the medical student training program, and will fill the void to interpret electroencephalographic studies. He is establishing an epilepsy clinic to follow the previous patients of Dr. Boggs, and to monitor patients who have had vagal nerve stimulator implantation for refractory epilepsy. In addition, the planning stages are finalized for the establishment of a multiple sclerosis clinic, which will be a viable resource to the University, to lower Alabama, and the contiguous referral regions.

Dr. Asim Mahmood has become an important assistant to Dr. Zweifler with regards to the stroke program and, with the upcoming departure of Dr. Malapira, will play an increasing role in providing coverage for stroke call, which is time-intensive.

Dr. Paul Maertens continues to be the most proliferative generator of patient charges, but unfortunately, because of patient mix, his collections are marginal. Dr. Maertens fulfills an extremely important educational function in our residency training program, as he is the only pediatric neurologist on staff. He will initiate a pharmaceutical research project utilizing our Epilepsy Monitoring Unit equipment in the near future.

Recently, we acquired a new practice director who has fewer faculty to manage, which should give us an opportunity to review our inpatient consultation and admissions charges, and the appropriateness of our submitted charges from our outpatient services such as EMG/NCV, EEGs, Epilepsy Monitoring Unit, and transcranial doppler studies.

The department, as a whole, has received above-average evaluations from residents in medicine, psychiatry, and neurology, as well as medical students in both the third and fourth years. It is anticipated that our residency neurology in-service examination scores will continue to reflect our concerted effort to expand their educational material. We continue to be hampered by not having two discrete PGY-1 positions, and a solution for this has been explored, but not adequately addressed.

A major thrust of our department is to increase the number of patients evaluated, even though we have a diminishing faculty base. It is important to upgrade our pediatric neurology coverage. Hopefully, a second pediatric neurologist can be recruited this academic year.

Overall, the Department of Neurology has expanded in patient evaluations, but we need to replace departing faculty members in epilepsy and stroke, and acquire a second pediatric neurologist. In addition, the department must seek more outside funding, to address our continued negative HSF deficit.

In conclusion, our department has made considerable improvements, including diversification, increased research activities and funding, providing excellence in teaching, and neurological care.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS
   A. Full length published articles.
      None.
   B. Articles in press.
      None.

II. PUBLISHED ABSTRACTS
    None.

III. BOOKS PUBLISHED
     None.

IV. PRESENTATIONS

V. NATIONAL PROFESSIONAL RECOGNITION.
   None.
VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS.

The Department of Neurological Surgery continues to treat pediatric patients at USA Children and Women’s Hospital with diseases including hydrocephalus, myelodysplasia, and pediatric head injury. Dr. Eric Weber has been president of the Medical Staff at Knollwood Park Hospital, and the Neurosurgical Service continues to do significant elective procedures at Knollwood Park Hospital.

Dr. Kent Sauter has developed the spinal cord injury service at University of South Alabama Medical Center to the point where we are now receiving referrals from a multi-state area for difficult spinal fixation problems. Dr. Sauter is now Board Certified in Neurosurgery.

Dr. Eugene Quindlen has continued to advance the Vagal Nerve Stimulation program for epilepsy along with Dr. Jane Boggs in Neurology. This procedure has produced significant improvements for seizure patients who have been unresponsive to medications. The Department is receiving outside referrals from area neurologists and is currently the only center in the area that is doing the Vagal Nerve Stimulator implants.

The department continues to participate in medical education in the College of Medicine, giving lectures in Neuroanatomy, Neuropathology and Neurophysiology. The fourth-year clinical clerkship continues to be a main, ongoing teaching function.
2001-2002
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


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

B. Rizk serves as the Chairman of the American Society for Reproductive Medicine 58th Annual Meeting Post-Graduate Precongress Course in Seattle, Washington, 2002. He also serves as Chairman of the Scientific Committee for the Southeast Regional Endocrine Meeting, 2002; and Chairman of the Scientific Committee, The Middle East Fertility Society Chapter of the American Society for Reproductive Medicine. He is a representative of the Central Zone of the United States in the American Representative Committee of the Royal College of Obstetricians and Gynaecologists London, England; Secretary of the American Representative Committee of the Royal College of Obstetrics and Gynaecology, London, England, 1998-2001; and President of the Mobile Bay Obstetrics and Gynecology Society, 1999-2000. He has been Ad hoc reviewer for ten years to the following journals: Fertility and Sterility, Human Reproduction, Molecular Human Reproduction, Reproductive Biomedicine Online and Middle East Fertility Society Journal, as well as Ad hoc reviewer for the European Society of Human Reproduction an Embryology Task Force on the perinatal outcome and the congenital malformations of intracytoplasmic sperm injection. Dr. Rizk is presently on the Editorial Board of the Middle East Fertility Society Journal. He is Board Certified in Obstetrics and Gynecology by the American Board of Obstetrics and Gynecology, Royal College of Obstetricians and Gynaecology of England, and the Royal College of Physicians and Surgeons of Canada. He is Board Certified in Embryology and Andrology by the American Board of Bio-analysis. Dr. Rizk was admitted as a Fellow to the Royal College of Obstetricians and Gynaecologists in London.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. Kathy B. Porter became Chair of the Department of Obstetrics and Gynecology on April 1, 2002. She is the first female ever to hold the position of Chair in the College of Medicine at the University of South Alabama. Dr. Porter took over as Clerkship Director for the Department. She is Chairman of the OB/GYN Committee at USA Children’s and Women’s Hospital and serves on the following committees: Curriculum Committee, Executive Council, and Faculty Committee on Appointments, Promotions, and Evaluations. Dr. Porter is Ex Officio to the office of the State Perinatal Advisory Committee; she is a member of the Regional State Perinatal Committee; and a Board Member of the Mobile Chapter of the March of Dimes.

The Department has recently recruited three new faculty members; they are: Dr. Norman Angell, Dr. Christen Yohn, and Dr. Craig Sherman.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF ORTHOPAEDIC SURGERY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS.


A.W. Pearsall. (1) Cervical Spine: Injuries, Treatment, and Return to Play; (2) Radiologic Diagnostic Tools; (3) Care of the Arthritic Athlete; and (4) Common Sports Knee Injuries and Management Options; and (5) Joint Injection and Aspiration Techniques: Cadaver Knee and Shoulder. Primary Care Sports Medicine Orthopaedic Review with Workshops, Sandestin, FL (2002).

V. NATIONAL PROFESSIONAL RECOGNITION.

Frederick N. Meyer, M.D., was selected for Best Doctors in America, 2001-2002. He is a member of the American Academy of Orthopaedic Surgeons Practice Management Committee and also currently serves as Chair of the Department Administration Task Force of the Academic Orthopaedic Society. Dr. Meyer is a reviewer for the Journal of Bone and Joint Surgery (Am).

Albert W. Pearsall, IV., M.D., is listed in America's Registry of Outstanding Physicians. He received a Distinguished Leadership Award published in the 2002 International Directory of Distinguished Leadership, 11th Edition. Dr. Pearsall currently serves on the Strategic Health Initiatives for Women, Sport, and Physical Activity Committee of the American College of Sports Medicine. He is a reviewer for the American Journal of Sports Medicine, and he became a fellow of the Arthroscopy Association of North America this year.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The number of full-time faculty in the Department remains at three: Dr. Frederick N. Meyer, Dr. Prasit Nimityongskul, and Dr. Albert W. Pearsall. Dr. Andin C. McLeod, Jr., an orthopaedic surgeon, retired from private practice in the community and joined the faculty in a part-time capacity on July 1, 2002. Dr. Jack E. Reagan continues to serve as a part-time, non-operative orthopaedic attending in the clinical operations at both the Stanton Road and Health Services Foundation facilities. Dr. Ron L. Lee, who also holds a faculty appointment in the Department of Family Practice and Community Medicine, serves part-time to coordinate primary care sports medicine/orthopaedics programs. In addition, expansion of affiliations with community orthopaedists has been beneficial in the improvement of resident and medical student educational opportunities. J. Marcus Hollis, Ph.D., Adjunct Associate Professor and Bioengineer, coordinates research activities within the department.
Under Dr. Meyer's leadership as Chairman, the Department has experienced a significant increase in clinical productivity. In addition, he has made major improvements in the focus and cohesiveness of the teaching program.

Dr. Albert Pearsall, Director of the Sports Medicine Division, was awarded tenure by the University of South Alabama, effective September 1, 2002. Dr. Pearsall initiated a funded Sports Medicine and Reconstruction Fellowship Program which began on August 1, 2002. This is a 12-month, PGY-6 level post-graduate training position. The Fellow participates in all departmental educational activities and functions as a junior faculty member with responsibilities that include surgery and clinical activities with Dr. Pearsall, all sports team coverage, and research.

Dr. Pearsall was selected as Team Physician for the Mobile Wizards, an Arena 2 professional football league, which was organized in Mobile this year.

Research activities remain ongoing within the department with emphasis on cartilage transplantation, cartilage viability, orthopaedic biomechanics, and shoulder biomechanics. Dr. Khalid Ibrahim, a Visiting Professor from Cairo, Egypt, began a 24-month research study in the Orthopaedic Biomechanical Laboratory on July 1, 2002. Dr. Ibrahim is a clinical and surgical observer whose interests are the biomechanics and surgical reconstruction of the shoulder. While here, he will participate in all educational activities within the Department. A national grant from the Egyptian government funds Dr. Ibrahim's study.

The applicant pool for orthopaedic surgery education and training remains highly competitive on a national level. A highlight of the year was filling both of our PGY-1 positions with graduating students from the Medical School here at the University of South Alabama during the National Residency Match Program.

The Department sponsored and organized two continuing medical education seminars during the year with participation by all faculty members. The Southeastern Orthopaedic Foot Club Meeting was held on May 9, 2002, in conjunction with the annual meeting of the Alabama Orthopaedic Society at the Perdido Beach Resort in Orange Beach, Alabama. The Primary Care/Sports Medicine Orthopaedic Review with Workshops was held June 6-8, 2002, under the direction of Dr. Albert Pearsall and Dr. Ron Lee at the Sandestin Golf and Beach Resort in Sandestin, Florida. Both meetings were well-attended.

The major thrust for the Department is its emphasis on recruiting efforts to fill faculty vacancies in the areas of Orthopaedic Trauma and Foot and Ankle Surgery.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


M.C. Brumit, G.C. Camahan, J.R. Stubbs, J.R. Storry, and M.E. Reid. Moderate Hemolytic Disease of the Newborn (HDN) Due to Anti-Rh17 Produced by a Black Female With an e Variant Phenotype. Immunohematol. 18:40-42 (2002).


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED

None.
IV. PRESENTATIONS


M.G. Horenstein. Nuchal-Type Fibroma. Department of Pathology, University of Texas, M.D. Anderson Cancer Center, Houston, TX (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Allan Tucker, Professor and Interim Chair, was elected president of the Society for Ultrastructural Pathology, an international organization of diagnostic electron microscopists. He gave invited presentations in this field in Aspen, Colorado, and Durban, South Africa. He served as a guest editor for the Journal of Ultrastructural Pathology and was selected as associate editor for North America and South America for that journal. Dr. Tucker also served on the editorial boards of Human Pathology and Southern Medical Journal. As a member of the Electron Microscopy Ad Hoc Review Group, he performed quality assurance for the Veterans Affairs Electron Microscopy Program. The United States and Canadian Academy of Pathology selected him as a member of its education committee, with duties that include organizing the annual meeting of that group, the largest annual meeting of pathologists in this country. He also served as an executive council member of the Association of Directors of Anatomic and Surgical Pathology.

Dr. James Stubbs, Associate Professor and Vice Chair, continues as a Member of the Board of Directors of the Gulf Coast Region American Red Cross Blood Services and chairs the Medical Advisory Committee of that organization and serves as Ad Hoc Member of the American Red Cross Committee for the Protection of Human Subjects. He is Advisor of the Area Committee on Hematology of the National Committee for Clinical Laboratory Standards and continues as a member of the Test Development and Advisory Committee for Blood Banking/Transfusion Medicine of the American Board of Pathology.
Dr. Cynthia Donnell continues to serve on the National Board of Medical Examiners, United States Medical Licensing Examination (USMLE) Step 1 Anatomy Committee.

Dr. Judy King continues to serve as Secretary of the Pathology Section of the Southern Medical Association. In addition, she was appointed to the Advisory Committee on Scientific Activities and the Advisory Committee on New Physicians of that organization.

Dr. LeRoy Riddick was appointed to the Board of Directors of the National Association of Medical Examiners. In addition, he was appointed to the Scientific Review Board of the Armed Forces Institute of Pathology.

Dr. Miguel Pappola continues to serve as a Consultant on the National Institutes of Health Brain Disorders & Clinical Neurosciences-3 Study Section. He is a member of the Investigative Review Board of the Medical and Scientific Advisory Council of the Alzheimer's Association. In addition, Dr. Pappola serves as a member of the Scientific Advisory Board of the University of Catalunya, Barcelona.

IV. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. William A. Gardner, Jr., who led the department as Chair since 1981, accepted the position of Executive Director, American Registry of Pathology, based in Washington, DC, and relocated to assume that post August 1. He withdrew as Chair of the Department April 1, to assist the Dean's office prior to leaving. In recognition of Dr. Gardner's many years of dedicated service to the department and the institution, the faculty voted to recommend the pathology award at honors convocation be henceforth designated as the William A. Gardner, Jr., Pathology Award. He was also named USA Emeritus Professor.

Dr. Allan Tucker, who had served as Vice Chair since 1995, was appointed Interim Chair April 1, 2002. He has assumed this role, with Dr. James Stubbs providing assistance as Vice Chair. Dr. Tucker was also appointed to the USA Foundation Board in June 2002.

The department has undertaken the consolidation of the inpatient and outpatient clinical laboratories, linking with a reference laboratory to provide regional service. Initial steps in this effort, under the direction of Dr. Jim Stubbs, will be in place by October 1.

Several members of the department were named "Red Sash Faculty" and received special recognition at the Honors Convocation. These were Drs. Bennett, Boudreaux, Carter, Donnell, Gardner, King, Riddick, Stubbs, and Tucker. Dr. Gardner was selected to deliver the farewell charge to the class and was honored as Gonfalonier during the ceremony. Additional honors awarded by the COM Class of 2002 were Best Senior Rotation to Dr. Allan Tucker for his electron microscopy elective and Best Basic Science Course for the Pathology and Laboratory Medicine course, under the direction of Dr. Cynthia Donnell and Dr. Elliot Carter.
Dr. Ann Marie Nelson, Chief, AIDS Pathology and Emerging Infectious Disease Branch of the Armed Forces Institute of Pathology, delivered the Toren Lecture, and Hope Foster, J.D., Manager of the Health Care Section of Mintz, Levin, Cohn, Ferris, Glovsky, and Popeo, in Washington, DC, delivered the Moring Lecture.

This year saw the addition of several faculty members: Dr. Margaret O’Brien returned to the faculty in July as Assistant Professor; Dr. Dan Roach, who completed his residency in the department in June, came on board as Instructor; and Dr. Kim Patterson, who completed a fellowship year in surgical pathology under the direction of Dr. Allan Tucker, joined the faculty as Assistant Professor in September.

Dr. Marla Brumit, who served as Chief Administrative Resident this past year, left in July to begin a fellowship in transfusion medicine at the University of North Carolina. The department welcomed six pathology residents who began their training July 1.

The Molecular Diagnostic Laboratory, under Dr. Maura Pieretti, has expanded with the addition and development of new tests in high clinical demand, including molecular testing for hepatitis C virus, with qualitative, quantitative, and genotype tests. Additions also include molecular testing for human papillomavirus to augment PAP test results.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


S.A. Falkos. (1) Pediatric Physical Exam; and (2) Endocrine Emergencies. PICU Educational Outreach Prog., Thomas Hospital, Fairhope, AL (2001).

S.A. Falkos. Status Epilepticus. PICU Educational Outreach Prog., Atmore Community Hospital, Atmore, AL (2002).


P. Jansen. (1) Respiratory Failure and Shock, and (2) Acute Asthma. PICU Educ. Outreach Prog., George County Hospital, Lucedale, MS (2001).


V. NATIONAL PROFESSIONAL RECOGNITION.


Benjamin Estrada continues to serve as the Pediatric Research in Office Settings (PROS) Coordinator for the State of Alabama. He has accepted the position of Institutional Representative to the Southern Society for Pediatric Research and also served as a PediaLink Development Advisor to the American Academy of Pediatrics Section on Infectious Diseases. Fabien Eyal continues to serve on the Alabama Chapter, American Academy of Pediatrics Fetus and Newborn Committee. Dr. Eyal was the Discussion Facilitator for 21 abstracts in a Thematic Poster Session entitled "C65 Neonatal Lung Disease and Bronchopulmonary Dysplasia" at the American Thoracic Society 98th International Conference at Atlanta, Georgia.

David Gremse was appointed Interim Chair for the Department of Pediatrics. He is an Associate Member of the American Board of Pediatrics and continues to serve on the PMCP-G Clinical Problems Committee. He continues to serve on the Credentials Committee for the American College of Gastroenterology. He serves as a member of the Education Committee for the Section on Gastroenterology of the American Academy of Pediatrics. He is a member of the Editorial Board of Pediatric Drugs. He continues to serve as Area 6 Representative of the Executive Board of the Alabama Chapter, American Academy of Pediatrics.

Mary Mancao continues to serve on the Alabama Department of Public Health Sexually Transmitted Disease Medical Advisory Council. She also serves as a member of the American Society of Microbiology. Keith Peavy serves on 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.

R. Franklin Trimm is on the Education Committee and Editorial Board of the Ambulatory Pediatric Association's Educational Guidelines for Residency Training in General Pediatrics. He also serves as a member and module writer for Building Bright Futures Curriculum Workgroup. Richard Whitehurst serves on the Alabama Regional Perinatal Advisory Committee. Felicia Wilson serves on the Hematology/Oncology Study Section of the American Board of Pediatrics, and the State of Alabama Hemophilia Advisory Committee.

Yih-Ming Yang was selected as a national finalist for the AAMC Humanism in Medicine Award. He continues to serve on the Board of Directors of the Sickle Cell Disease Association as a member and 2nd Vice Chair; State of Alabama Hemophilia Advisory Committee; Member Board of Directors, Camp RAP-A-HOPE; Alabama Newborn Screening Advisory Council; Director of the Hemoglobin Diagnosis Laboratory, Sickle Cell Association of America, Mobile Chapter; and as Medical Director of Camp RAP-A-HOPE. He also served as an Assessment Team Member on the Taiwan Medical Accreditation Council.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

Two new faculty members joined the Department of Pediatrics over the past year. Dr. Erwin Sanchez joined the department in the Division of General Pediatrics as Pediatric Chief Resident. Dr. Rosa Vidal joined the Division of Pediatric Critical Care as Assistant Professor of Pediatrics. This past year saw the retirement of Dr. Robert C. Boerth, Hollis J. Wiseman Distinguished Professor and Chair of the Department of Pediatrics for the past 18 years. Dr. Boerth was appointed Emeritus Professor of Pediatrics upon his retirement. The “Best Attending Award,” which Dr. Boerth received four times during his career, was renamed the “Robert C. Boerth Best Attending Award” in his honor to recognize the outstanding faculty member annually. This past year also saw the departure of Dr. Paul Jansen (Pediatric Critical Care) and Dr. Mike Chicella (Pediatric Pharmacotherapy).

The following Pediatric Faculty members were recognized by the COM students as Distinguished Faculty Members at the 2002 Honors Convocation: Drs. Samar Bhowmick, Robert Boerth, Benjamin Estrada, David Gremse, Mary Mancao, Keith Peevy, Jorge Quiñonez, Kenneth Rettig, Franklin Trimm, Felicia Wilson, and Yih-Ming Yang.

The ninth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics was Mark Gurley. Four of the graduating medical students chose residencies in pediatrics (n=2) or combined medicine/pediatrics (n=2). Of the pediatric residents completing residency this year, one joined our faculty in the Division of General Pediatrics (Chief Resident), one entered a fellowship program, and five entered private practice. Of our medicine/pediatric residents completing residency, two joined our clinical faculty at USA Children and Women’s Hospital Evaluation Center, and one entered private practice. As of July 1, 2002, eight first-year residents entered the pediatric residency program, and one first-year resident entered the combined medicine/pediatrics residency program.

Clinical activity and billed charges increased within the Department of Pediatrics. The Children’s Miracle Network was again successful, raising over $427,000 to benefit the USA Children and Women’s Hospital.

The Department of Pediatrics was productive this past year in terms of scholarly output. There were 26 original articles published or in press, and 15 published abstracts by faculty members of the department.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PHARMACOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.

J. Creighton, N. Masada, D.M.F. Cooper, and T. Stevens. Coordinate Regulation of Membrane cAMP by Calcium Inhibited Adenylyl Cyclase (Type 6) and Phosphodiesterase (Type 4) Activities. Am. J. Physiol. (2002).


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


S. Wu. (1) Selective Disruption of Endothelial Cell Adhesion by Activation of a Ca$^{2+}$ Selective Store-Operated Current, $i_{soc}$; and (2) T-type Ca$^{2+}$ Channel Activation Contributes to Vaso-Occlusion of Sickled Erythrocytes in Inflamed Lung. Exp. Biol., New Orleans, LA (2002).

V. NATIONAL PROFESSIONAL RECOGNITION

The Department of Pharmacology had five faculty members serving on editorial boards of major journals. Dr. Mark Gillespie and Dr. Troy Stevens served on the Editorial Board of the American J. of Physiology: Lung Cell and Molecular Physiology; Dr. Stephen Schaffer, on Molecular and Cellular Biochemistry, Section Editor for Amino Acids; Dr. Samuel Strada, on CNS Drug Reviews; and Dr. Jonathan Scammell, on the Editorial Advisory Board of Journal of Pharmacology and Experimental Therapeutics.

Dr. Mark Gillespie served as Chairman-elect of the Program Committee and served on the Leadership and Long Range Planning Committees for the Pulmonary Circulation Assembly of the American Thoracic Society; served on the Giles F. Filley Awards Committee for the American Physiological Society, and on four NIH Study Sections including Lung Biology and Pathology, National Sickle Cell, STTR/SBIR, and the Program Project Grant Review Committee. Dr. Jonathan Scammell is a member of the Biochemical Endocrinology Study Section, NIH, and served as a Panel Member for NCRR, Special Emphasis Panel on Research Infrastructure. Dr. Stephen Schaffer served on the Review Board of the American Heart Association, Southeast Affiliate. Dr. Troy Stevens served as Chair of the Nominating and Steering Committee and served on the Planning and Program Committees for the Pulmonary Circulation Assembly of the American Thoracic Society; served on the Program Committee for the American Physiological Society; served as an Ad Hoc Member for Lung Biology and Pathology Study Section, Respiratory and Applied Physiology Study Section, Experimental Cardiovascular Sciences Study Section and Program Project Grants for NHLBI. Dr. Samuel Strada served as Representative for the Association for Medical School Pharmacology to the AAMC Council of Academic Societies and served on a review panel for the Office of Research Integrity (ORI) Resource Development Program.

The Department received additional funding through a number of research grant awards. Dr. Mikhail Alexeyev received a Grant-in-Aid from the American Heart Association, Southeast Affiliate, entitled "Modulation of Oxidative Mitochondrial DNA Damage in the Rat Cardiac Myocytes With Cell-Permeable Enzyme Chimeras. Dr. June Aylin received a research grant from NIH, National Heart, Lung, and Blood Institute entitled "Pharmacokinetics and Metabolic Effects of Folic Acid." Dr. Jack Olson received a Grant-in-Aid from the American Heart Association, Southeast Affiliate, entitled "Ornithine Decarboxylase (ODC) and Monocrotaloine Pneumotoxicity." Dr. Songwei Wu received a Scientist Development Grant from the American Heart Association National Center for research on "Role of T-type Calcium Channels in Vaso-Occlusion of Sickled Erythrocytes in the Lung Microcirculation."
VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS

The College of Medicine launched the new Center for Lung Biology naming Dr. Troy Stevens as Director. The Center will provide state-of-the-art scientific development in lung biology, advancing the understanding of human health and disease, improving patient care, and will serve as a foundation for outstanding graduate, post-graduate, and fellowship training.

The Department recruited Dr. Abu-Bakr Al-Mehdi as an Assistant Professor in January 2002. Dr. Al-Mehdi received an M.D. in General Medicine and a Ph.D. in Medicine from Crimea Medical Institute in Simferopol, Ukraine. His research interests include immediate responses of endothelial cells to ischemia in terms of reactive oxygen/nitrogen species (ROS/RNS) generation, mechanisms of flow-adaptation and mechanotransduction by shear stress sensors on endothelial cells, and mechanisms of metastasis formation in the lung.

Dr. Kathryn Ault Ziel received her Ph.D. in May 2002. Her dissertation was entitled “Oxidant-Dependent DNA Modifications in Hypoxic Pulmonary Artery Endothelial Cells (PAECs): Potential Role in Transcription Factor Binding and Gene Expression.” Dr. Mark Gillespie served as Dr. Ziel’s major professor.

Two graduate students from the Department, Ms. Donna Cioffi and Ms. Tina Hubler, received pre-doctoral awards from the American Heart Association, Southeast Affiliate. Ms. Cioffi was sponsored by Dr. Troy Stevens, and the specific goal of her project is to understand how a particular process called Store Operated Calcium Entry contributes to the formation of gaps between endothelial cells. Ms. Hubler was sponsored by Dr. Jonathan Scammell, and her research is aimed at understanding how the squirrel monkey, a primate with abnormally high levels of the hormone cortisol, maintains a normal blood pressure.

The Department hosted visits by several distinguished scientists: Drs. Jahar Bhattacharya (Columbia University), Donald H. Maurice (Queens University), Bruce Pitt (University of Pittsburgh), David Rodman (University of Colorado) and Pawan Singal (University of Manitoba).

Four undergraduate students were accepted for the Summer Undergraduate Research Fellowship (SURF) program. Mr. Justin Campbell, Ms. Melissa Krempe, Ms. Sarah Miller, and Mr. Stephen Savarese. The Department also hosted Ms. Elizabeth Sabens, an undergraduate student participating in the University-wide Undergraduate Research (UCUR) Program.

Dr. Troy Stevens sponsored Mr. Matthew McIntyre, Freshman Medical Student, in the Medical Student Summer Research program. Mr. McIntyre presented a poster entitled “Interaction of Pulmonary Artery and Microvascular Endothelial Cells in Co-Culture: The Signaling Role of Ephrin β-2 and Eph β-4.”
ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED
None.

IV. PRESENTATIONS


M.I. Townsley. Altered Regulation of Pulmonary Endothelial Permeability in Chronic Heart Failure: A Role for P450 Epoxynengases? Pulmonary Division, Northwestern University School of Medicine, Chicago, IL (2001).


V. NATIONAL PROFESSIONAL RECOGNITION.

STEPHEN T. BALLARD served in the following capacities: Member - American Physiological Society, New York Academy of Sciences, American Association for the Advancement of Science, Da Vinci Society, Microcirculatory Society; Reviewer - Journal of Applied Physiology; American Journal of Physiology; Heart and Circulation Physiology; American Journal of Physiology: Lung, Cellular and Molecular Physiology; American Journal of Physiology: Cell Physiology; Journal of Biological Chemistry; Journal of Clinical Investigation; Journal of General Physiology, Journal of Pharmacology and Experimental Therapeutics; Life Sciences; American Journal of Respiratory, and Cell and Molecular Biology; Grant Reviewer: Canadian Cystic Fibrosis Foundation (2001); Cystic Fibrosis Foundation Research Development Program (2002). Dr. Ballard was also on a research sabbatical at Tayside Institute for Child Health, Dundee University, Dundee, Scotland, during Fall 2001.

MICHAEL V. COHEN served in the following capacities: Editorial Board of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine; and Member of Clinical and Integrative Cardiovascular Physiology Study Section of the American Heart Association and the NIH SCOR Study Section.

JAMES M. DOWNEY served in the following capacities: Member, Mobile County Board of Directors, American Heart Association; Co-Manager of the website on the Communications Committee of the Council of Basic Cardiovascular Sciences for the American Heart Association; Member of the CVB Study Section of the National Institutes of Health; Consultant to Cognetix Corp.; Editorial board member for Circulation Research, Journal of Molecular and Cellular Cardiology, Basic Research in Cardiology, and Cardiovascular Pharmacology; and Abstract grader for the American Heart Association Scientific Sessions. He is currently President of the International Society for Heart Research, an international organization with over 3,000 members worldwide.

THOMAS M. LINCOLN served in the following capacities: 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; and Editorial Board on: Molecular Pharmacology and Journal of Vascular Research. He also serves on National Institute of Health Experimental Cardiovascular Sciences Study Section.

JAMES C. PARKER served in the following capacities: Reviewer: Journal of Applied Physiology; American Review Respiratory Disease; American Journal of Physiology; Cardiopulmonary Council member, American Heart Association; Pulmonary Circulation Assembly, American Thoracic Society; Fellow of Cardiovascular and Respiratory Sections of American Physiological Society; Fellow of American Heart Association Circulation Council; and Member: American Physiological Society, Microcirculatory Society, American Thoracic Society, New York Academy of Sciences, North American Vasc. Biol. Organization. He also served on the following study sections: NIH SBIR Study Section
SSS-3 (2002); AHA Southeast Regional Affiliate Peer Review Committee, Tampa, FL (2002); NIH NHLBI Program Project Review Committee, Bethesda, MD (2002).

AUBREY E. TAYLOR served in the following capacities: Secretary-Treasurer, Association for Chairman of Departments of Physiology; American Heart Association -- Basic Science Committee, Long Range Planning Committee of Cardiopulmonary and Critical Care Council; AHA Representative to AAALAC; Editor: Clinical Sciences; Editorial Board: American Journal of Physiology: Heart and Circulation; Journal of Applied Physiology; American Journal of Respiratory Disease; and Critical Care Medicine. He was also appointed Distinguished Professor of Physiology and Professor Emeritus of Physiology.

MARY I. TOWNSLEY served in the following capacities: American Heart Association: Research Committee (2000-2005); Executive Committee, Council on Cardiopulmonary and Critical Care (1996-2005); Chair, Communications Sub-Committee, Council on Cardiopulmonary and Critical Care (2000-2002); Member, ECC Sub-Committee, Council on Cardiopulmonary and Critical Care (2000-2002); Chair, AHA Lung, Respiration and Resuscitation Study Committee (2001-2004); AHA Southeast Affiliate Research Committee (2000-2003) (Vice Chair 2000-2002, Chair 2002-2003); American Physiological Society Cardiovascular Section Nominating Committee (elected) (2002-2005); Chair, Review Team for Department of Veterinary Physiology and Pharmacology, Texas A&M University, Review of Doctoral Programs (2001); Chair, Gulf Coast Physiological Society (2002-2003), Regional Science Olympiad Organizing Committee (2000-2002); Expanding Your Horizons Conference Organizing Committee (2001-2002); Member: American Physiological Society (Elected Fellow of the Cardiovascular Section); Microcirculatory Society; Cardiopulmonary Council of the American Heart Association; New York Academy of Sciences; European Microcirculatory Society; Sigma Xi, Alpha Omega Alpha Medical Honor Society; Editorial Board: Microcirculation (1999-Present); Microvascular Research (1997-Present); and Reviewer for: Journal of Applied Physiology, Microvascular Research, American Journal of Physiology, Circulation Research, American Journal of Respiratory and Critical Care Medicine, Clinical Science, Anesthesiology.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Drs. Eli-Anne Gjerde, T. Krieg, O. Oldenburg, S. Tarpey, Z. Xu, and S. Yoshikawa were postdoctoral fellows in the department. Drs. Dyess and Culpepper continue as excellent contributors to the research and teaching programs within the Department of Physiology. The following distinguished scientists have visited the department this year: Dr. David M. Guidot, Emory University, Atlanta, GA; Dr. G. Heusch, Essen University, Essen, Germany; Dr. J. Yuan, University of California at San Diego, San Diego, CA; Dr. Stephan Felix, University of Greifswald, Greifswald, Germany; Dr. Jacques Huot, University of Laval, Quebec City, Quebec, Canada; Dr. William Jackson, Western Michigan University, Kalamazoo, MI; Dr. Rolf Hubmayr, Mayo Clinic, Rochester, MN; and Dr. Lane Clark, University of Missouri, Columbia, MO.

Dr. Aubrey E. Taylor stepped down as Chair this year and has been appointed as a Distinguished Scientist and Professor Emeritus of Physiology. He will continue to work in his laboratory in this capacity. The department welcomed Dr. Thomas M. Lincoln as the new chair. Dr. Lincoln moved his laboratory from the Department of Pathology at UAB to assume this position. The department will actively work to recruit faculty to expand our research horizons.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PSYCHIATRY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.


B. Articles in Press.

None.

II. ABSTRACTS.

None.

III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.

None.
V. NATIONAL PROFESSIONAL RECOGNITION.

Dr. Manuel L. Cepeda continued to serve on the Editorial Board of the *Southern Medical Journal*. He is also an examiner for the American Board of Psychiatry and Neurology, Inc.

Dr. James W. Croake served as an International Editor for the *Canadian Journal of Adlerian Psychology*, Associate Editor for the *American Journal of Family Therapy and Family Relations*, and served on the Editorial Board of *The Australian and New Zealand Journal of Family Therapy*. He also reviewed grant applications for the March of Dimes and the Canadian Government Grants in Mental Health.

Dr. Charles L. Rich continued as Editor-in-Chief of the *Annals of Clinical Psychiatry* and on the Editorial Boards of *Suicide and Life Threatening Behavior, and the Archives of Suicide Research*. He also served on the Scientific Advisory Board for the American Foundation for Suicide Prevention.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

While the full-time faculty has shrunk to three, 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-Deficit/Hyperactivity Disorder in school children. Dr. Croake continues his collaboration with colleagues in Seattle on factors influencing fear in adults.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF RADIOLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press


II. PUBLISHED ABSTRACTS


III. BOOKS


IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

S.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 Educational & Research Council for Radiological Society of North America (RSNA) and is also an RSNA reviewer for Awards in Excellence in Research and Education and RSNA Grant Reviewer. Dr. Teplick has reviewed over 2000 abstracts for the 2002 Annual RSNA Educational Exhibits. He is a Board Examiner for the American Board of Radiology and is the Alternate Councilor to the American College of Radiology - Alabama Academy of Radiology. He will present five talks to the University of Arkansas Medical School during a visiting professorship in September 2002. Dr. Teplick has presented a Positron Emission Tomography/Computed Tomography (PET/CT) talk for local doctors and also for the Ribbon Cutting Ceremony at USA Knollwood Hospital for the new PET/CT Scanner dedication. He will present one talk at the 2003 Annual meeting of the American College of Gastroenterology.


B.G. Brogdon has received a number of awards and appointments for his outstanding work in the field of Forensic Sciences and they are as follows: Officer’s Cross of Honor for Science and Arts, First Class, Republic of Austria; Trustee, Forensic Science Foundation; Editorial Board, Journal of Forensic Sciences; Editorial Board, Surgical and Radiologic Anatomy; Chairman, Convention Planning Committee, International Skeletal Society; and Chairman, Continuing Education Committee, American Academy Forensic Science.

F.G. Greiner is a peer reviewer of the following: *Radiology and the Southern Medical Journal*. He served as the Neuroradiology Case Coordinator for the RSNA Case of the Day.

D.E. Herbert served as a member of the Steering Committee of the 6th International Conference on Dose, Time and Fractionation in Radiation Oncology held at the University of Wisconsin and Co-Editor of the Proceedings. He is Chairman of the Statistics Committee (AAPM), Task Group 5, "The Design of Experiments in Radiation Biology," and Task Group 7, "Complexity Theory" of the AAPM Biological Effects Committee, a Consultant to the AAPM Task Group 44 Report "Academic Program for Degrees in Medical Physics," and a member of the AAPM Task Group 8, "Volumetric Tissue Response Models in Radiation Oncology." He is on the Editorial Board of the *Technology and Health Care International Journal of Health Care Engineering*.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Jeffrey C. Brandon was awarded the Outstanding Instructor Award for 2002 by the graduating residents.

M. S. Figarola, M.H. Mowry, and S.K. Teplick were among the radiologists present at the Ribbon Cutting Ceremony at USA Knollwood Hospital for the new PET CT Scanner dedication along with Robert Kreisberg, M.D., Dean of the College of Medicine, and Congressman Sonny Callahan.

D.E. Herbert is the Director of the USA College of Medicine Biostatistics and Epidemiology Core Unit.

The Department of Radiology is pleased to welcome one new Faculty member, Brad A. Steffler, M.D., Associate Professor, Chief of Body Interventional Radiology.

Developments:

(1) The Teleradiology services with the VA Biloxi and VA Mobile were expanded further this year with the addition of the VA Alexandria, Louisiana, hospital; (2) The Teleradiology area at the University of South Alabama Medical Center is being expanded with both additional space and updated software; (3) We continued moving toward a filmless Department with the integration of PACS and the RIS system; (4) New linear accelerator for cancer treatment has been installed at the Cancer Center/Cancer Building on campus; (5) The PET/CT Scanner is installed and operational at Knollwood Park Hospital; (6) The Department of Radiology is in line for a Department of Defense Contract; and (7) The Department of Radiology is in the process of recruiting two part-time Faculty members.
2001-2002
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF SURGERY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS


III. BOOKS PUBLISHED


IV. PRESENTATIONS


C.N. Harris. Tri Med Distal Radius Treatment. Distal Radius Fractures Workshop, Tallahassee, FL (2001); Panama City, FL (2001); Crestview, FL (2002).

A. Luterman. Update on Burn Treatment. Escambia County Emergency Medical Service (ESCEMS), Pensacola FL (2001).


A. Luterman. Update on Burn Injuries, the New ABA/ ACS Guidelines Sacred Heart Hospital: Trauma Center Grand Rounds, Pensacola, FL (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. J.A. Boullier was a reviewer for the Journal of Endourology.

Dr. J.M. Cummings was a Reviewer for Journal of Urology, Urology, and Contemporary Urology.

Dr. D. L. Dyess served as State Faculty for the Advanced Trauma Life Support Course of the American College of Surgeons (ATLS). In addition, she served as Editorial Consultant for the Southern Medical Journal. She is also a member of the Breast Disease Committee for the National Surgical Adjuvant Breast & Bowel Project (NSABP) and a member of the Committee on Applicants for the American College of Surgeons. Dr. Dyess is State Contact for the Association of Women Surgeons and University Contact for Association of Academic Surgery.

Dr. Raymond R. Gacek served on the Editorial Boards of the Annals of Otology, Rhinology and Laryngology; the American Journal of Otolaryngology; the American Journal of Otology; the Ear Nose & Throat Journal; Laryngoscope, Otorhinolaryngology NOVA, and Advances in Otolaryngology - Head & Neck Surgery.
Dr. Richard P. Gonzalez served on the Editorial Board of Current Surgery, was a manuscript Reviewer for the Journal of Trauma and was a member of the Publications Committee of the Eastern Association for the Surgery of Trauma.

Dr. Curtis N. Harris served as a consultant for the Alabama Foundation for Health Care, Alabama Workman's Compensation, and Children's Rehabilitation Services. Dr. Harris also served as a member of the American Society of Maxillofacial Surgery, the American Society of Plastic & Reconstructive Surgeons, The American College of Physician Executives, and Sigma Xi.

Dr. A. Luterman was a Council Member of the Alabama Chapter of the American College of Surgeons, and served on the Government Affairs Committee for the Alabama Chapter of the American College of Surgeons. He served as Chairman of the Regionalization Committee of the American Burn Association, and was a member of the Advanced Burn Life Support Committee of the American Burn Association. He served on the Editorial Boards of the following journals: The American Surgeon; Journal of Burn Care and Rehabilitation; New Directions in Critical Care Nursing; and Current Surgery. He also served on the Ad Hoc Editorial Board of the Journal of Trauma. Dr. Luterman served as a Consultant for Integra Life Sciences, Ethicon, Johnson & Johnson Medical Division, and on the National Consultant Panel of Merck Pharmaceuticals. He also served on the advisory panel of Ortec Pharmaceuticals and Baxter Pharmaceuticals. He was a Consultant at the National Surgical Consultants Meeting for Merck. He was also listed as one of America's Top Doctors by Castle Connolly Medical, Ltd.

Dr. R. W. Powell served as Editorial Consultant to the Journal of Pediatric Surgery and Reviewer for the Journal of Trauma. He served on the Trauma Committee for the American Pediatric Surgical Association, the Publications Committee for the Pacific Association of Pediatric Surgeons, and on the National Advisory Council for the National Pediatric Trauma Registry.

Dr. C. B. Rodning served on the following committees: Educational Resources (Video) Committee, Society of American Gastrointestinal Endoscopic Surgeons; Vice-Regent, Alabama Chapter, International College of Surgeons; Meeting Program and Coordination Committee, International College of Surgeons; and Representative, College of Medicine, to the Section on Medical Schools, Liaison Committee, Graduate Medical Education, American Medical Association. He was also the Program Coordinator for the Annual Meeting of the Alabama Chapter of the American College of Surgeons. He served as a reviewer for the following medical journals: Chest; J Critical Illness; J. Histochem. Cytochem.; Review of Infectious Diseases; Southern Medical Journal; and Pediatrics. Dr. Rodning was a member of the ad hoc Committee of the Building for Medical Museum of the Mobile County Medical Society. He was a member of the Historical Mobile Preservation Society, an Honorary Member of the Board of Directors, Mobile Medical Museum; and served on the Editorial Board of the Online Journal of Digestive Health. Dr. Rodning received the Humanism in Medicine Award, the Howard L. Holley Award, and the School Spirit Award from UMS-Wright Preparatory School.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

This past year the Department of Surgery underwent significant changes. A national search for a new Chairman of Surgery was held with numerous candidates being interviewed. At the same time, a number of new faculty were recruited adding to the educational program of the Department. Dr. Juvonda Hodge joined the clinical faculty with specific interests in Laparoscopic surgery, and Dr. Michael Fuenfer joined the Division of Pediatric Surgery.

The Center for the Study of Rural Vehicular Trauma continued its development. Its interface with the Emergency Medical Services and Health Care Providers has continued. The Division of Trauma and Critical Care has continued its leadership role in providing the service of the Level 1 Trauma Center for this region. The education programs provided by the Trauma Center were further developed with a trauma symposium for the region. The Center continues to provide education and training for students and residents by hosting students and residents from other training programs. It also serves as the ATLS Training Site for the Gulf Coast area.

The Gulf Coast Regional Transplant Center underwent a change in leadership with the successful recruitment of a new Director, Dr. Velma Scantlebury. Dr. Scantlebury is a nationally known transplant surgeon and educator, and promises to continue the development of the transplant center to the next level as a resource for this region and as a major contributor to the specialty.

The Burn and Wound Center continues its growth, providing a wide region with service. The research activity in this center has increased as the Center continues into its 16th year of activity. The new facility, opened last year, has proven very successful. This Center has active educational, clinical, and research programs.

The Department hosted this year’s Alabama Chapter of the American College of Surgeons. The excellent program included numerous presentations by residents and faculty of this department. Similarly, numerous other local presentations were given by the faculty of this department, maintaining its leadership role in surgical education for the area.

The residency education program remains very strong with new initiatives relative to resident work hours, evaluations, and teaching methods. As a new Chairman and Program Director will assume control and leadership in the department in the near future, the next era for this department will open and this portends an exciting new phase, enthusiastically anticipated by faculty and staff alike.
2001-2002
SUMMARY OF ACTIVITIES
BIOMEDICAL LIBRARY
MEDIA PRODUCTION SERVICES

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.
IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

Thomas Williams was elected Chair of CONBLS, the Consortia of Biomedical Libraries of the South. His term runs through October 2002. He is in his final year as representative of the International Cooperation Section of the Medical Library Association to the Association’s Section Council. In addition to serving as Chair of the Southern Chapter of MLA’s History Committee, Tom has taken on the added responsibility as editor of the Chapter’s Cookbook Project, a fund-raising activity. He also serves on the Chapter’s Executive Committee. Tom continues as the COM representative to the Association of American Medical Colleges (AAMC) Group on Information Resources. The Association of Academic Health Sciences Libraries (AAHSL) is part of AAMC and He serves as Chair of its Bylaws Committee.

Judy Burnham is serving on the Medical Library Association’s National Program Committee for the 2003 Annual Meeting to be held in San Diego, California, in May of 2003. For the MLA 2003 meeting, she is in charge of poster presentations. She was granted distinguished member status by the Association of Health Information Professionals on February 1, 2002. Judy serves as a member of the Southern Chapter/MLA Communications Committee. She was awarded the Estelle Brodman Academic Medical Librarian of the Year Award by the Medical Library Association at its Annual Meeting in May 2002. The Estelle Brodman Award is granted to a member of the Association who best exemplifies the association’s principles and shows leadership potential. Judy had also received the Southern Chapter’s Academic Medical Librarian of the Year Award in October 2001.
Jie Li was elected Chair of the International Cooperation Section of the Medical Library Association. She had served as that Section's Program Committee Chair prior to her election. Jie also chaired two important MLA Juries: the MLA Scholarship for Minority Students and the Medical Informatics Section/MLA Career Development Grant Jury. She is the current International News Editor of the Medical Library Association News.

Geneva Staggs serves on The Southern Association of Colleges and Schools (SACS) Commission on Colleges. She was a member of the Local Arrangements Committee for the Medical Library Association Annual Meeting in Dallas, May 2002. At the State level, Geneva is a member of the Alabama Health Libraries Association and has/had the following positions: Nominating Committee 2001, Executive Committee 2002, and Member-at-Large 2002.

Justin Robertson is serving on the Continuing Education Committee of the Network of Alabama Academic Libraries (NAAL).

Ellen Sayed is serving as Editor of the Newsletter of Medical Library Association/International Cooperation Section. She serves on the MLA International Cooperation Section Sister Library Initiative Committee. Ellen also serves on the Network of Alabama Academic Libraries Resource Sharing Committee.

Diane Williams serves as a member of the Alabama Health Libraries Association (ALheLa) Executive Committee and as Chair of their Nominating Committee. Further, Diane Williams serves as Editor of Synapse, AlheLa’s newsletter.

Jana Slay serves on the AlHeLa Executive Committee, and is also Chair of the Directory Committee and editor of the Directory.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

2001-2002 has been another hectic and productive year for the College of Medicine's Biomedical Library, currently with three sites. Online access to full-text journals and books increased substantially this year. In the past, the BML has ranked in the bottom 20%, nationally, for the number of journal titles available to our users. While the national mean was in excess of 2,000, the BML had only 1,200. Thanks to the addition of approximately 3,000 full-text titles, the BML now ranks 7th in the nation for full-text journal title availability (as of Oct. 2001). The Biomedical Library continues to contract with vendors and publishers to offer library users the latest in online full-text resources. All electronic titles are available with an easy click from the Biomedical Library Homepage at http://southmed.usouthal.edu/library/index.html. Usage of these products has increased dramatically as more of our users discover the online full text. The BML was fortunate to have been awarded several grants during the course of the year largely through the efforts of Assistant Director, Judy Burnham. We were especially proud of Judy this year who won the Medical Library Association's Academic
Medical Librarian of the Year Award. We always knew the USA Biomedical Library had the best librarians in the country, based on your comments, and this award was affirmation of that fact. Jie Li is Principal Investigator of a grant proposal that was submitted. We were recently informed that the proposal has received a very high score. We are confident that this proposal will be successful and that we will be awarded well over $100,000. This year Biomedical Library faculty took over the Information Technology in Medicine, formerly FMP479 and now BBL 479 course. The syllabus and class structure were revised and a corresponding web page developed to support the class.

Plans were underway for the installation of compact shelving for the first floor back area at the campus site. Installation begins in early September 2002, and will take about four weeks to complete. Other projects in the planning phase include the installation of a library facility at the Knollwood Hospital campus.

The BML’s educational activities continue to expand with numerous classes and training sessions being offered on-site and elsewhere. Internet classes for physicians were conducted throughout the year and proved very popular. Biomedical Library faculty will be teaching the fourth-year Medical Informatics course, which is taught in the 5th and 10th rotations.

Computers were purchased to replace old or worn-out units in the Microcomputer Lab and elsewhere in the library. Nearly all PCs in the Biomedical Libraries have been upgraded to Windows98 software, many with Microsoft Office2000.

A long-time and much-appreciated faculty member left for a new position at the American University of Paris in Paris, France. Sally Murray, known to all who use the library, and many who don’t, left us in March 2001. Recruitment for Sally’s position is currently in progress. The BML’s AHEC Librarian, Everly Brown, left for a new position as Head of the Circulation Department at the University of Maryland Health Sciences Library in Baltimore.
MEDIA PRODUCTION SERVICES

During this reporting period the department experienced a significant decline in requests for some services:

Traditional Photographic Production - Income in this area dropped most significantly compared to the same period last year. It was not surprising that there was a decline in requests for these services, as this trend amounts to a total income reduction of 80% over the past four years. The amount of this drop was higher than anticipated. Although this may be attributed in part to our somewhat depressed economy and proration, it is more likely that these services are, for most customers, no longer required.

Digital Production Services - Income from the department's relatively new digital services was also down. This was surprising. A review of production reports indicates considerably fewer requests for digital slides and dye sublimation prints from digital files. The willingness of publishers to accept photographic files with non-photo quality proof prints and affordable desktop solutions for meeting classroom presentation needs without hard copy media may account for this decline. Unfortunately, while these desktop solutions are more affordable to the end user, they require that more be spent on the hardware used to present this media. The 35mm projector has been replaced with a more expensive computer and a video data projector. Consequently, classroom expenditures, for which we do not recover any cost, are on the rise.

On a more encouraging note:

Video Production, Illustration, AV Tech Support - Income from these services remained relatively stable, with customers expressing a high degree of satisfaction.

Support for Emerging Health Technologies (EHT) - During this reporting period, the department played a major role in the video conferencing, distance learning, and telemedicine activities of EHT. In return, approximately $40,000 of the involved staff salary was charged to EHT grant funding. It is our hope that as EHT focuses on telemedicine efforts the department will assume sole responsibility for all video conferencing and distance learning events. These activities would go hand-in-hand with new directions for the department related to the production and delivery of streaming media.
SUMMARY OF BIOTECHNICAL SERVICES

Biotechnical Services consist of the Biopolymer, Research Cytometry, Mass Spectrometry and Transgenic Animal/ES Cell core laboratories and report to the Office of the Senior Associate Dean. Each biotechnical core laboratory is managed by a director with input from a core advisory committee. The chart shown below outlines the organizational structure of the Office of Biotechnical Services for the 2001-2002 academic year. The following are directors for each core laboratory: Dr. Tin Cao, Director of the Biopolymer Laboratory; Dr. Raymond Hester, Director of the Research Cytometry Laboratory; Dr. Ann Abraham, Acting Director of the Mass Spectrometry Laboratory; Drs. Danna and Warren Zimmer, Co-directors of the Transgenic Animal/ES Cell Laboratory.
BIOPOLYMER LABORATORY
SUMMARY OF ACTIVITIES FOR 2001-2002

The Biopolymer Laboratory serves as a core facility for nucleic acid research. It is equipped to provide support for a wide range of projects involving molecular biology.

DNA SYNTHESIS

DNA synthesis is accomplished with two instruments: an Applied Biosystems Model 381A and a Beckman Model 1000M. The ABI 381 is a single-column instrument dedicated to the synthesis of specialty DNA. The Beckman 1000M is a fully-automated synthesizer with a built-in Trityl monitor and extensive diagnostic functions to monitor the synthesis process and ensure the quality and purity of the synthesized oligonucleotides. It has the capability to synthesize 8 oligonucleotides sequentially with fast and economical cycle time. DNA of defined sequence is custom-made, automatically using solid phase/phosphoramidite chemistry. Synthetic DNAs are used as probes for gene screening, primers for DNA sequencing and in directed-site mutagenesis. The number of oligonucleotides synthesized during the fiscal year 2001-2002 is up 29% from last year.

DNA SEQUENCING

The Biopolymer Laboratory performs DNA sequencing analysis using the automated sequencer model ABI 373XL from Perkin Elmer/Applied Biosystems. The use of the "Big Dye" technology by Applied Biosystems has allowed more accurate and long reads in automatic sequencing. The number of DNA templates sequenced during the fiscal year 2001-2002 is down 8% from last year. The technology is in use mainly to detect mutations and to confirm the locations of genes.

MICRO-ARRAY TECHNOLOGY

A new DNA microarray system has now been installed in a dust-free and climate-controlled room in the CSAB building. The printing of custom DNA arrays on glass slides is performed on a Microsys 5100 arrayer from Cartesian Technologies. The fluorescence scanning is carried out on a three-laser scanner, the ScanArray 4000XL from Packard BioScience. The Image and gene expression analysis are processed with the QuantArray software also from Packard BioScience. This new technology will allow USA scientists to interrogate thousands of genes simultaneously. The microarray technology is fast becoming the tool of choice for basic research and medical diagnostics. The Biopolymer Center is specialized in the printing of novel and rare genes still unavailable on
commercial micro-array slides. The use of ultrasensitive dendritic fluorescent probes allows the detection of extremely low-expression genes usually unattainable through regular direct-fluorescent labelling of RNA. This deliberate combination of technical choices creates unique research opportunities for specialized investigators.

REAL TIME PCR

Real time measurements of a PCR reaction in progress have greatly expanded the benefits of the PCR technology. Real time PCR assays are accurate, precise, can be conducted in high throughput, and do not require the traditional time-consuming gel analysis. A new Real Time PCR system is being installed at the Biopolymer Laboratory. The BioRad iCycler iQ Real Time PCR instrument is equipped with a broad spectrum light source and a CCD detector for the simultaneous imaging of 96 samples every second and an advanced software package to analyze the collected data.

In addition to the services mentioned above, the Biopolymer Center can provide biotechnical advice to all researchers using the facility. Technical files on strategies for molecular cloning and the latest developments in Biotechnology are available upon request. For further information contact Dr. Tin Cao at 460-7264.
DNA Synthesis in Biopolymer Lab

- Year 1996: 654 oligos
- Year 1997: 809 oligos
- Year 1998: 643 oligos
- Year 1999: 760 oligos
- Year 2000: 457 oligos
- Year 2001: 485 oligos
- Year 2002: 629 oligos

DNA Sequencing in Biopolymer Lab

- Year 1996: 6 templates
- Year 1997: 235 templates
- Year 1998: 800 templates
- Year 1999: 971 templates
- Year 2000: 1113 templates
- Year 2001: 574 templates
- Year 2002: 527 templates
2001-2002
SUMMARY OF ACTIVITIES
MASS SPECTROMETRY LABORATORY

I. ARTICLES IN JOURNALS


II. PUBLISHED ABSTRACTS


III. PRESENTATION


IV. BRIEF SUMMARY OF ACTIVITIES.

1. Personnel.

Service and collaborative research activities were performed by the Acting Director, Dr. Ann Abraham. In December 2001, she resigned, and left in January for a position with a commercial environmental service laboratory. She was not replaced by new personnel, since the expectation is that the laboratory will be incorporated into a newly-established proteomics Laboratory.
2. Service and Collaboration.

In the past year, 70 samples were submitted for analyses by 8 investigators from 6 laboratories; 5 investigators from 3 laboratories in the College of Medicine, 2 in non-medical departments at the University of South Alabama (Allied Health and SeaLab), and 1 in an extramural (FDA) laboratory. The analyses required about 400 instrument hours that included method development for chemical derivatization and gas chromatography/mass spectrometry (GCMS) experimentation. An additional 80 hours were spent for instrument maintenance.

About 70% of the samples required fast atom bombardment MS (FAB-MS) and 30% GC-MS. FAB-MS was employed for the study of wild and mutant enzyme reactions on chitohexaose/chitopentaose oligomers using [18]O labeling (Dr. Aronson, Biochemistry), and for MW determination of synthetic anticancer drug candidates and intermediates (Dr. Nair, Biochemistry). Half of the GC/MS samples were analyzed by the help of the dynamic headspace sample enrichment process refined in the earlier years in our laboratory for volatile trace components in seafood (Dr. Bencsath, FDA). A smaller series of steroid samples were derivatized and analyzed by GCMS in a pilot study to support a pharmacological research proposal (Dr. Scammell, Pharmacology).

A collaboration with Dr. Steven Goodman of the Sickle Cell Center proved that this betactin membrane protein had retained its biological functionality after the chromatographic process carried out in acidic organic/aqueous phase at low ionic strength. A collaboration with Dr. Dhossche (in psychiatry) for the determination of GABA in the blood of autistic and normal children was successfully completed, and the results of the study were published.

3. Future Direction.

The laboratory provides analytical services for investigators to analyze small (m/z < 4,000) molecules with our current instrumentation and will continue to help develop methods for their projects. The laboratory is expected to complement a new proteomics laboratory operation that will utilize novel ionization techniques and more advanced data processing methods to analyze peptides and proteins in biological mixtures.
2001-2002
RESEARCH CYTOMETRY LABORATORY
SUMMARY OF ACTIVITIES

The Research Cytometry Laboratory (RCL) provides a wide range of cell-analysis techniques including multi-color fluorescence, cell sorting and cloning, and confocal imaging.

Laboratory Utilization (through August 31)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometry - samples</td>
<td>1,455</td>
<td>1,091</td>
</tr>
<tr>
<td>Fluorescence microscopy - hours</td>
<td>208</td>
<td>136</td>
</tr>
</tbody>
</table>

Twenty investigators representing the following departments used the services of the RCL during 2001-2002: Biochemistry and Molecular Biology, Cell Biology and Neuroscience, Microbiology and Immunology, Orthopaedics, Pediatrics, Pharmacology, and Physiology.

Instrumentation.
Fluorescence microscopy is accomplished with either the Leica TCS SP2 confocal laser scanning system or an Olympus BX50 standard fluorescence microscope. A Hamamatsu ORCA ER monochrome cooled CCD camera and an Opotronics color cooled CCD camera are available for image acquisition on either of these microscopes; image analysis software includes Universal Imaging MetaVue and Adobe Photoshop. Single-, two-, or three-color images, 3-D reconstructions, and fluorescence/DIC overlays are options available on the TCS SP2. A 20/20 Technology Bionicom microscope stage incubator provides sample temperature control.

Single- or multi-color fluorescence flow cytometric analyses are performed on a Becton Dickinson dual-laser FACSVantage SE. Options include cell sorting for the recovery of large numbers of cells and cell cloning for single-cell isolation in 96-well plates. Cytek’s Time Zero system is available when rapid sample injection is required; pulse processing and Verity House ModFit LT software for DNA (ploidy) analysis are other features of our Vantage. Two additional PMTs provide for ratioing of UV-excited fluorescence when needed, e.g., determination of intracellular Ca^{++} modulation using Indo-1 as an indicator.

Additional instrumentation includes a Molecular Devices Cytosensor microphysiometer, Photon Technology Incorporated M-Series fluorescence detection system, and an Olympus SZX12 stereo zoom microscope.

Ancillary equipment are a CO2 water-jacketed incubator, laminar flow tissue culture hood, and Shandon Cytospin2 centrifuge.
**Director's Evaluation**
Overall activity increased approximately fifty percent compared to last year. Increasing the awareness among potential users of the resources available in the RCL remains a priority with Internet notices one avenue being used to accomplish this goal. Personal contact with individual investigators or through departmental seminars has not been exploited fully, but will be in the future. Sources of funding for equipment upgrades, particular in the area of flow cytometry, are currently being sought.

**Future Directions**
We will submit an NIH Shared Instrumentation Grant application next year for funds to upgrade the FACSVantage lasers, convert the Vantage to digital electronics, and add TurboSort—the latter increasing sort rates by a factor of ten over the present rate. The following year we will seek funds to upgrade our Leica TCS SP2 confocal microscope with options that include UV and multiphoton capabilities and Leica's AOBS excitation-dichroic replacement feature with its increased laser light for fluorescence excitation and increased laser line availability.
The goals of the University of South Alabama Transgenic Animal/ES Cell Core Facility are to:

- Develop genetically altered mice at a cost below that required for individual or commercial preparation
- Serve as a repository for mouse lines
- Serve as a resource for information/methodology/reagents
- Educate faculty, staff, and students in the derivation/utilization of mouse models in biomedical research

To accomplish these goals the facility offers three components: services (DNA and ES cell microinjection, ES cell transfection/cloning, reagent repository, embryo cryopreservation, and line rederivation), education (seminars and a semiannual graduate level course), and consultation with individual investigators.

EDUCATION

A monthly Mouse Molecular Genetics Workshop is a journal club/seminar series designed to keep investigators up to date on the latest technology. The time is split equally between presentations from laboratories utilizing transgenic animal models in their research and an informal round-table discussion of new projects and/or technical problems. The following topics were covered during the past year:

<table>
<thead>
<tr>
<th>Date</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 15</td>
<td>Jon Garcia</td>
<td>Development/Submission of Animal Protocols</td>
</tr>
<tr>
<td>July 20</td>
<td>Alan Brady, D.V.M. Dept. Comparative Medicine</td>
<td>Health Problems in Transgenic Animals</td>
</tr>
<tr>
<td>September 21</td>
<td>Ms. Eleanor Brown</td>
<td>MACS Magnetic Technology: Cellular and Molecular Research Tools</td>
</tr>
<tr>
<td>October 19</td>
<td>Susan Gibson, D.V.M. Dept. Comparative Medicine</td>
<td>Phenotyping of Transgenic and Knockout Lines</td>
</tr>
<tr>
<td>November 16</td>
<td>Alan Brady, D.V.M. Dept. Comparative Medicine</td>
<td>Environmental Variables in Transgenics</td>
</tr>
</tbody>
</table>

The core has developed a 3-hour graduate-level course entitled “Development/Utilization of Mouse Models in Biomedical Research” (IDL 571). The course is literature-driven and covers mouse genetics, animal health issues, strategies for developing transgenic/knockout animal models, and mammalian cloning. The course is offered whenever the minimum enrollment requirement of 5 students is met. Additionally, the core laboratory, in cooperation with the Department of Comparative Medicine, will participate in the newly-designed interdisciplinary core course for incoming graduate students. The students will have lectures on the use and care of animals, the development of transgenic animals, and will have hands-on lab work in the laboratory.
Services/Consultation

During the past year the core has become fully operational. Investigators/projects that utilized the core during the past year include:

<table>
<thead>
<tr>
<th>Investigator</th>
<th>Department</th>
<th>Services Required</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Danna B. Zimmer, Ph.D.</td>
<td>Pharmacology</td>
<td>ES Cell Injection</td>
<td>Delivered Chimeras Ongoing</td>
</tr>
<tr>
<td>Jonathan Scammell, Ph.D.</td>
<td>Pharmacology</td>
<td>Pronuclear Injection</td>
<td>Delivered Positive Animals Ongoing</td>
</tr>
<tr>
<td>Danna B. Zimmer, Ph.D.</td>
<td>Pharmacology</td>
<td>Pronuclear Injection</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Warren Zimmer, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>Pronuclear Injection</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Warren Zimmer, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>ES Cell Injections</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Susan Gibson, D.V.M.</td>
<td>Comparative Medicine</td>
<td>Consultation</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Michael Chinkers, Ph.D.</td>
<td>Pharmacology</td>
<td>ES Cell Injections</td>
<td>Delivered Chimeras Ongoing</td>
</tr>
<tr>
<td>Rich Honkanen, Ph.D.</td>
<td>Biochemistry</td>
<td>Consultation</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Tony Gard, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>Consultation</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Glenn Wilson, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>Consultation</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Jane Funkhouser, Ph.D.</td>
<td>Biochemistry</td>
<td>Consultation</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Tom Lincoln, Ph.D.</td>
<td>Physiology</td>
<td>Consultation ES Cell Injections Vector Development</td>
<td>Ongoing</td>
</tr>
</tbody>
</table>

Dr. Warren Zimmer received notification of funding (3% ranking) for his NIH grant "Prostate Epithelial Cell Gene Regulation," which will begin 12/01/02.

Publications:

2001-2002
USA CANCER RESEARCH INSTITUTE
SUMMARY OF ACTIVITIES

Background

The University of South Alabama commissioned a feasibility study in 1998 to explore the development of a comprehensive cancer research and treatment institute to serve the Gulf Coast region. Oncology Solutions, a consulting firm with extensive experience in the development of academic cancer programs and associated economic development, was engaged to conduct this study. USA faculty, administration, and Board of Trustees were actively consulted to define the strategic direction and program content for the proposed new cancer institute. Based on the positive outcome of the feasibility study, in December of 2000 the USA Board of Trustees authorized Oncology Solutions to generate a full-scale business plan to launch a new cancer institute at USA.

Implementation

Implementation of the program began in February 2001 with the creation of a steering committee and three task forces charged with planning various components of the new institute. Current USA College of Medicine faculty were asked to give significant input on existing capabilities and to contemplate anticipated needs in basic/translational research and clinical practice. A search committee was established to identify candidates for a Director of the cancer institute. The basic/translational and clinical science task forces met multiple times throughout the year, helping to shape and customize planning activities of the institute. The search committee reviewed numerous applications, and Dr. Michael R. Boyd, a 26-year veteran of the U.S. National Cancer Institute, was appointed Director for the cancer institute. Dr. Boyd began full-time duty at USA on June 1, 2002. The institute has been named the USA Cancer Research Institute (USA-CRI). Implementation activities of the USA-CRI subsequently have focused predominantly upon strategic planning, infrastructure development, and recruiting for additional key senior leadership positions within the USA-CRI.

Strategic Planning and Infrastructure Development

Planning for buildings and facilities to house the USA-CRI are already well underway. This will include a new clinical cancer research and outpatient building, named the USA CRI Center for Clinical Science (CCS), to be built on USA's Knollwood Hospital campus. The CCS will house specialty service clinics, associated research laboratories, and core-support facilities and interdepartmental faculty and staff, working in concert to advance and deliver state-of-the-art technologies in cancer diagnostics and therapeutics. USA recently acquired a new linear accelerator and a PET/CT Scanner Device; these technologies, collectively valued in excess of $5.7 million, will also be housed at the new facility at Knollwood to provide additional sophisticated, contemporary tools for cancer diagnosis and treatment.
Relocation of the USA clinical care components from the existing cancer building on the main campus to the Knollwood facility will release 60,000 gross square feet of space for renovation to provide state-of-the-art research laboratory facilities. Space in this renovated building, named the USA-CRI Center for Basic and Translational Science (CBTS), will be dedicated to basic and preclinical cancer-related research.

Specific operational goals have been established to ensure the success of the USA-CRI. Within the first three to five years, the USA-CRI will develop an economically viable, multi-disciplinary cancer research and treatment program with an expanded research focus on new drug development and testing through acquisition of new anti-cancer agents for Phase I/II trials. Within 10 to 15 years, the USA-CRI will have a broadly integrated cancer research, education, treatment, prevention, and control program that is competitive for funding by the National Cancer Institute as an NCI-designated Comprehensive Cancer Center.

A complementary plan has also been formulated to guide the economic development aspects of the USA-CRI. In collaboration with private-sector partners, it is expected that an affiliated but separate Drug Development Institute (DDI) and Clinical Trials Management Organization (CTMO) will be launched at USA. This will facilitate collaborations with pharmaceutical companies to discover, develop, and conduct clinical trials of potential anti-cancer compounds at the facilities of both USA and other local healthcare providers. The operations of the Drug Development Institute and CTMO will bring additional funds into the local community in support of advanced clinical trials and will create the opportunity to launch new, for-profit initiatives, based on preclinical discovery, development, and clinical research. Indeed, it is expected that multiple, new for-profit biomedical/biotechnology companies will be founded in Mobile based on the work of the USA-CRI and Drug Development Institute. Such companies, typically funded by private and venture investment, create new job opportunities and support sustainable economic development. The economic development plan strongly considers the economic impact of research, development and production activities in the USA-CRI, the DDI/CTMO, and associated new spin-off biotechnology companies and is geared towards providing jobs for people with all levels of education in the Alabama Gulf Coast region.

**Recruitment Activities**

In addition to the USA-CRI Director position, a number of additional senior leadership positions have been defined for the Institute, and recruitment efforts are underway. These positions will include a Director for the CBTS, a Director for the CCS, and a Deputy Director for Clinical Research. These individuals will provide essential leadership for implementation of the CBTS, CCS, and DDI/CTMO facilities and infrastructure, recruiting new faculty and staff, and ensuring the overall excellence and integration of the basic, preclinical, and clinical research and technology development programs of the USA-CRI. Additional positions for which recruitment efforts have been or will shortly be initiated include an Associate Director for Control, Prevention, and Population Science; a Facility Head for a Mass Spectrometry and Proteomics Core; and a Deputy Director for Administration.
Scientific Activities.

In the interim while the USA-CRI laboratories, core facilities, clinics, and other essential components are being built or renovated, Dr. Boyd and the newly recruited USA-CRI senior scientific staff will continue to maintain national and international collaborations and alliances with public- and private-sector individuals and organizations that will benefit the USA-CRI, the University, and the community. Furthermore, existing USA faculty already engaged in cancer-related research and/or clinical programs will contribute importantly to the overall critical mass of expertise and cancer-related activities necessary to build a viable cancer institute at USA.

Dr. Boyd is continuing to engage in an extensive, international collaborative research network in anticancer and antiviral (e.g., anti-HIV) drug discovery and development. Selected recent publications authored or coauthored by Dr. Boyd, and recent U.S. patents issued on which Dr. Boyd is named inventor or co-inventor, are provided below for illustration. Dr. Boyd also continues to serve as an advisor to the NCI’s intramural drug research and development programs, and additionally is serving as a research reviewer for the National Institute of Aging intramural research program. Dr. Boyd was an invited lecturer at the International Cancer Congress in July 2002, in Oslo, Norway.

Selected Recent Publications.


T. Mori and M.R. Boyd. Cyanovirin-N, a Potent Human Immunodeficiency Virus- Inactivating Protein, Blocks Both CD4-Dependent and CD4-Independent Binding of Soluble gp120 (sgp120) to Target Cells, Inhibits Soluble CD4-Induced Binding of sgp120 to Cell-Associated CXCRC4, and Dissociates Bound sgp120 From Target Cells. Antimicrob. Agents Chemother. 45:664-672 (2001).


**Publications in press.**


**Patents:**


**2001-2002**

**Summary of Activities**

**USA Comprehensive Sickle Cell Center**

**General Operations:** As of August 1, 2002, Dr. Johnson Haynes, Jr., completed his first year as Director of the USA Comprehensive Sickle Cell Center. Dr. Betty Pace and Ms. Rosie Peterson serve as Associate Directors of Pediatric Programs and Psycho-social Program, respectively. The Sickle Cell Administrative Office and Research Laboratories are located on the second floor of the MSB.

**Research:** We were well-represented at the 26th Annual Sickle Cell Program meeting in Washington, DC, on September 17-21, 2002. Faculty, students, and staff presenting are: Dr. Johnson Haynes, Jr. (Voiding Dysfunction in Women with Sickle Cell Disease and Hydroxyurea Decreases Sickle Erythrocyte Retention/Adherence in the Pulmonary Circulation); Dr. B. Surendra Ballig (Reversal of Zileuton Inhibition of BFU-E Colonies and Fetal Hemoglobin Expression by L-Arginine); Dr. Solomon Ofori-Acqua (Mechanism of Gamma Gene Silencing by STAT3 and Differential Inhibition of Beta and Gamma Globin Transcripts by Truncated Anti-Beta RNA); Dr. Betty Pace (p38 MAPK Mediates γ-Globin Induction by Butyrate and Trichostain); and Ms. Betty Robinson (Healthcare Delivery to Individuals With Sickle Cell Disease Residing in Rural Alabama Using Telemedicine Technology).

Current projects in the USA-CSCC are Novel Mechanisms of Globin Gene Silencing During Alternate Lineage Commitment, Betty Pace, PI; Modulation of Globin Expression by Antisense Transcripts (Scholars Project), Solomon Ofori-Acqua, PI; Mechanisms of Fetal Hemoglobin Induction, Danna Zimmer, PI; and Acute Lung Injury in Sickle Cell Disease, Johnson Haynes, Jr., PI.

**Adult Operations:** The 2001-2002 academic year marks the close of the fourth year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. The primary objectives of this clinic are (1) to be a resource for practicing physicians in the University and private community; and (2) to serve as a positive educational experience for primary care residents in the Departments of Medicine and Family Medicine at the University of South Alabama. The clinic is staffed by Dr. Johnson Haynes, Jr.; Ms. Ardie Pack-Mabien, Nurse Practitioner; Ms. Stephanie Durggin, R.N.; and Ms. Adrienne Petite, Case Manager. Over the last academic year, 10 residents have rotated through the outpatient Adult Sickle Cell Clinic. The Adult Sickle Cell Clinic continues to serve the greater Mobile area in addition to a continuous influx of patients from surrounding counties. In addition, we are seeing a small number of patients from Pensacola and Panama City, Florida, and Pascagoula, Mississippi. All referring physicians receive written correspondence outlining the care received in the adult clinic as well as the planned therapeutic course implemented for that patient's condition. Ms. Pack-Mabien and Ms. Durggin continue to support the pediatric outpatient clinical operations and serve as liaisons when transitioning patients from the pediatric to the adult services. There continues to be a gap in transitioning patients who are on chronic transfusion therapy and require iron chelation for iron overload.
The principal challenges for the future in the adult clinical operation continue to be the development and participation of the adult hematology services in caring for adults requiring chronic transfusions.

**Pediatric Programs:** Dr. Betty Pace continues to serve as the Associate Director of Pediatric Programs, working in collaboration with Drs. Wilson and Yang to provide comprehensive medical services to pediatric sickle cell patients. A major goal of the pediatric program last year was to establish a Children's Youth Sickle Network (CYSN) to serve clients in the eight counties we serve in rural southeast Alabama. Funding was secured through the Robert Wood Foundation 21st Century Fund with matching funds from the Dean’s office, which started in August 2001; satellite clinics were started November 2001, in Brewton and Jackson, Alabama, and in Monroeville in May 2002. A telemedicine approach is being used to accomplish the CYSN program in collaboration with the Office of Rural Health, in the College of Medicine. We have served over 100 families in the three remote sites. Delivering some of the medical services in satellite clinics will aid in solving the problem of high patient census in the weekly Tuesday sickle cell clinics held in Mobile. We will continue to work towards expanding the number of clinic days so that adequate medical services can be delivered to patients in a timely fashion at our main site in Mobile. The approach we are taking is the establishment of a Transition to Adult Care clinic that will convene twice per month. We have identified space and staffing is being planned, at the present time.

**Psycho-Social Research Division:** The PRD, directed by Rosie Peterson, serves as the arm of the USA Comprehensive Sickle Cell Center to assure that the behavioral, cognitive, and psycho-social programs are integrated in the overall care plan of individuals with SCD. Programs within the PRD focus on the prediction of medical compliance, access to healthcare, quality of treatment, and overall psycho-social functioning of the families and children with SCD. PRD also strives to influence the overall healthcare delivery system for individuals with sickle cell disease in the catchment area served by our Center. PRD participated in the following activities during 2001-2002: **Consumer Advocacy Network:** Established a clinical support group made up of individuals with sickle cell disease who are participants in a clinical trial or interested in participating in a Center research project. A youth component was established to serve as a focus group for the Transition to Adult Care Project (TAC). **Psycho-social Research Reporting Meetings:** Facilitated quarterly meetings with speakers who provided the Sickle Cell Center faculty and staff updated information on Psycho-social research activities in the Center. **Sickle Cell Center Newsletters:** Developed two quarterly newsletters highlighting faculty/staff/patients and activities of the Sickle Cell Center. **Sickle Cell Center Brochure and WEB Page:** Redesigned and updated the Center brochure and WEB page to include new faculty/staff and Center activities. **Medicaid Project:** Continued to develop dialogue with Alabama Medicaid by analyzing data to determine need and cost for adults who are currently receiving Medicaid and working on other ongoing issues that limited health care services creates for our adults with sickle cell disease. **Distance Learning Education Technology Project:** Developed a technology component to the existing sickle cell disease provider education program to include videoconferencing and WEB casting. PRD received a grant of $9,000 from the National Network of Libraries of Medicine to implement this project.
Health Literacy Assessment and Provider Education Project: Established a patient health care literacy assessment tool and designed a provider training and education program to focus on health care literacy as a tool to reverse health disparities in a target population.

Middle School Science Education Project: Established a partnership with local public middle schools that will promote student knowledge and interest in science and the scientific processes. Funding status, pending. Series of Pre- and Post-Test Survey Instruments: PRD assisted in developing a series of pre- and post-test, patient satisfaction, ready to transition to adult care and other survey instruments. These instruments were developed for overall use in the Center. The plan is to standardize and copyright these forms.

Education: The Center faculty continues to provide a broad series of lectures throughout the academic and private medical community. The Center faculty continue to support the Educator/Counselor Certification Program which took place three times this academic year at the Sickle Cell Disease Association of America, Mobile Chapter. Ms. Ardie Pack-Mabien, Nurse Practitioner, has given 15 lectures and Ms. Durgin, R.N., has given two lectures over the last academic year to nurses within the University of South Alabama, private hospitals in the Mobile community, School of Nursing, and to nursing personnel in the outlying, surrounding counties. The faculty continues to participate in the National Sickle Cell Disease Program, which was held in Washington, DC, in September 2002. Mukesha Barker, freshman medical student, worked in the laboratory of Drs. Betty Pace and Solomon Ofori-Aquah on “Role of GATA protein in Stat3-mediated regulation of the fetal globin gene.” The work was presented at the 29th Annual Medical Student Research Day. The USA-CSSC co-sponsored the speaker for the 29th Annual Medical Student Research Day.

Publications by Center faculty and staff for fiscal year 2002 include:


Published (In Press) by Center faculty and staff for fiscal year 2002 include:

U. Liu, J. Li, B. Oh Kim, B.S. Pace, and J.J. He. HIV-1 Tat Protein-mediated Transactivation of the HIV-1 LTR Promoter Is Potentiacted by a Novel Nuclear Tat-Interacting Protein of 110 kDa, TIP110. J. Biol. Chem. (On-Line) (2002).

B.S. Pace, G.I. White, G.J. Dover, M.S. Boosalis, A. Thies, and S.P. Perrine. Short Chain Fatty Acid Derivatives Induce Fetal Globin Expression and Erythropoiesis in vivo. BLOOD.
2001-2002
SUMMARY OF ACTIVITIES
OFFICE OF EMERGING HEALTH TECHNOLOGIES

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.
IV. PRESENTATIONS

D.P. Hicks. Emerging Technologies in Today’s Society. (1) Tuskegee University Freshmen, Tuskegee, AL; (2) University of Alabama Freshmen, Tuscaloosa, AL; and (3) Alabama State University Freshmen, Birmingham, AL (2002).


C.W. Taylor. Florida Atlantic University-Imaging Technology/NASA Commercial Space Center Board Meeting, Fort Lauderdale, FL (2002).

C.W. Taylor. The Role of Emerging Health Technologies in the Future of Nursing. USA College of Nursing Faculty Retreat, Mobile, AL (2002).


V. NATIONAL PROFESSIONAL RECOGNITION.

Carl W. Taylor served as a member of the Imaging Technology Commercial Space Center Consortium (NASA), Florida Atlantic University, and also as advisor to the Caribbean Telemedicine Association. Dawn Hicks, Health Technology Development Specialist, attended the Office for the Advancement of Telehealth Annual Meeting, Bethesda, MD (2002).

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS.

Emerging Technologies demonstrations were presented at the following locations:

Ala. Primary Health Care Assoc. Annu. Mtg., Orange Beach, AL; MASA Annu. Mtg., Fairhope, AL; Mobile County City/County Day, Health Fair Exhibition; and Health Fair, Central Plaza Towers, Mobile, AL (2002).

Connecting the present, while creating the future of "Always On' healthcare," has become the motto of the Office of Emerging Health Technologies (OEHT). This past fiscal year saw a redirection of the program as it morphed from a demonstration of telecommunication-oriented technologies to an application of telecommunication technologies within the care continuum. With a focus on meeting the needs of our customers, be they rural patients and providers, our own facilities or faculty, or other members of our extended community, the program has excelled at becoming a communication-centered, connected care resource. Whether it has been providing the technology platform to allow a father in the military in Japan watch his baby being born in Jackson, Alabama, or a chronic hypertensive patient in Pineapple, Alabama, manage his blood pressure and avoid trips to the hospital, OEHT has become a resource to use caring edge technology in new, novel and meaningful ways.

OEHT has also become a knowledge resource to assist a broad range of new clients in understanding the role technology will play in future care needs. For example, OEHT now works closely with the Alabama Department of Public Health in creating or identifying new tools for the fight in the war on terror. We also have become one of the first programs in the country to explore the use of an advanced 3D imaging software system, the first program in the country to experiment with a new breed of wireless home health devices, and one of the first programs in the country to use small cutting-edge, dial-up modems in home care. We have partnered with Children's Rehabilitative Services to create a telemedicine network to allow pediatric specialists greater geographic reach to children in need, and created one of the first e-connected emergency rooms in the nation for the management of trauma cases.
OEHT programs during the past fiscal year included, biomonitoring of chronic patients at the Grace Busse Clinic in Pineapple, Alabama, telemedical support of the Mobile County Health Department HIV Clinic at McIntosh, Dr. Betty Pace’s Children and Youth Sickle Cell Network at Jackson Medical Center and D.W. McMillan Hospital. OEHT has continued support for the Southwest Alabama Abuse Network, now located at Thomas Hospital in Fairhope and South Baldwin Medical Center in Foley. The Ernest G. DeBakey CME Video Library has been continued with over 992 tapes of CME being offered primarily to rural physicians. We have also provided external support to the Alcorn State University School of Nursing, via the mobile telemedical program that provides connective care to rural Mississippi and has won public acclaim for its service to those residents.

Finally, OEHT has become a collaborative partner with members of our College of Medicine faculty and our hospitals. Whether it is demonstrating the role of technology in managing high risk pregnancies and evaluation of premature births, introducing our specialists to the rural healthcare community or representing the College of Medicine at local, state and national functions, OEHT has become a visible emissary to the healthcare community.
2001-2002
SUMMARY OF ACTIVITIES
OFFICE OF RURAL HEALTH

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


R.M. Benjamin. Participant. (1) Partners In Public Protection. Federation of State Medical Boards Annual Meeting, San Diego, CA; (2) AHEC Program Directors Meeting, HRSA Washington, DC; (3) National Board of Medical Examiners USMLE Step 3 Committee Meeting, Philadelphia, PA; (4) National Board of Medical Examiners USMLE Step Retreat, New Port, RI; (5) Alabama Board of Medical Examiners Retreat, Asheville, NC; (6) Council On Graduate Medical Education, HHS, Washington, DC; and (7) American Medical Association’s Council on Ethical and Judicial Affairs, Chicago, IL (2002).


L. O'Connor. Telemedicine and the AHEC Program at the University of South Alabama. Downtown Rotary Club, Mobile, AL (2001).
V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Regina Benjamin, Associate Dean for Rural Health, received an Honorary Doctor of Science degree from the University of Alabama School of Medicine, Birmingham, Alabama. She was also installed as the President of the Medical Association State of Alabama, becoming its First Woman and First African American President. She was also appointed by Governor Jeb Bush to the Board of Trustees of Florida A&M University. Dr. Benjamin served on several Boards of Directors and committees including Birmingham Southern College Board of Trustees; AL Board of Medical Examiners; the Federation State Medical Licensing Boards; Member Board Physicians for Human Rights; Member Institute of Medicine, National Academies of Science; Member Council on Graduate Medical Education (COGME); Chair, United States Medical Licensing Exam Step 3 Committee; Commissioner, Henry J. Kaiser Family Foundation Commission on Medicaid and the Uninsured; Member, Governor’s Task Force on Children’s Health; Member, National Advisory Committee Robert Wood Johnson Southern Rural Access Program; Member, Advisory Committee, National Center for Bioethics, Tuskegee University; Member, Advisory Committee, UAB School of Public Health; Member, Rural Medical Scholars Program Third-Year Review Team; University of Alabama School of Medicine; and Member, American Medical Association’s Council on Ethical and Judicial Affairs. Dr. Benjamin also served as member of the boards of Mercy Medical; Catholic Health East; Leadership Alabama; and Alabama Primary Care Association.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

The Office of Rural Health provides support for medical education and health delivery for Southern Alabama which includes medical education, health professions students, medical residency training, and continuing medical education. The Office of Rural Health also provides rural and under-served communities access to the medical information resources of the USA Baugh Biomedical Library.

In pursuit of these activities, the Office of Rural Health managed and oversaw four grant programs during FY2001-2002: (1) Alabama AHEC Program – $1.3 million per year; [Health Resources and Services Administration (HRSA) Bureau of Health Professions for three-year grant cycle]; (2) Robert Wood Johnson Southern Rural Access Recruitable Communities Program - $64,000 [private foundation funding in partnership with the Alabama Primary Care Association to enhance recruitment and retention of healthcare providers in black belt counties]; (3) Alabama Family Practice Rural Health Board – $19,000; and (4) DeltaNet Practice-Based Research Network – $15,000 [Agency for Healthcare Research and Quality to establish a Practice-Based Research Network in southwest Alabama, in partnership with Dartmouth Medical School].
The Alabama AHEC Program

The Alabama Area Health Education Center Program (AHEC) is a system of community-academic partnerships designed to provide the following services: rural residency training, multidisciplinary training, learning resource centers, professional recruitment and retention, primary care preceptorships, continuing medical education, community health education, and the encouragement of students, (particularly minority and rural) to pursue health careers.

The Alabama AHEC Program provides leadership and oversight to the Area Health Education Centers throughout the state which includes South Alabama AHEC (SAAHEC) in Saraland, Southeast Alabama AHEC (SEAHEC) in Troy, Rural Alabama AHEC (RAAHEC) in Tuscaloosa, and Tuskegee Area Health Education Center (TAAHEC). The AHEC serves forty-four (44) counties in west, southwest, southeast, and the blackbelt counties of Alabama.

During the 2001-2002 program year, the Alabama AHEC Program Office and Centers sponsored or provided the following: (1) 388 continuing education programs; (2) 15,334 providers participated in the programs; (3) 263 distance learning programs; (4) 561 community based training sites; (5) 954 medical students trained in AHEC sponsored community based sites; (6) 1689 health professions students trained in AHEC sponsored community based sites; and (7) 196 preceptors volunteered in the community based training sites.

The Alabama AHEC Program maintains cooperative agreements for programming with the following Alabama institutions to achieve the above listed objectives: (1) USA: College of Medicine, College of Nursing, College of Allied Health Professions; Charles M. Baugh Biomedical Library, and Biomedical Enrichment and Recruitment Program; (2) Auburn University: School of Pharmacy; (3) University of Alabama: College of Community Health Sciences, School of Library Information Sciences, School of Medicine, and School of Nursing; and (4) Troy State University: School of Nursing.
The Office of Technology Development (OTD) exists to identify, protect, commercialize, and manage inventions made by members of the University of South Alabama community. The primary mission of the OTD is to deliver those discoveries from concept to commerce. In fulfilling this mission, the OTD works to expand the research enterprise of the University, provide assistance to all faculty as well as rewards to inventors, increase opportunities for economic development and outreach, and return to the public the benefits of university-based research.

The 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 FY2002, OTD was instrumental in developing and implementing a new university-wide Copyright Policy, made effective as of April 1. This comprehensive policy, for the first time in the history of USA, defines how to manage all types of copyrightable works generated at the University. It protects the traditional academic rights of faculty while recognizing the University’s rights in certain limited circumstances.

Another major endeavor of OTD in FY2002 was the launch of the USA Research and Technology Park. Through close interaction with the administration of COM, the University, and the Mobile Chamber of Commerce, OTD was instrumental in the creation of a 35-acre research park on the north end of campus. The first tenant of the park, Mentor Graphics Corporation, was recruited to anchor the development in a 75,000 square foot building to be completed by Fall of 2003. It is expected that additional tenants, particularly those in the biomedical/biotechnology, software, and engineering fields, will become research park partners in the coming fiscal year.

The technology transfer functions of OTD continued at a strong pace in FY2002. Invention disclosures remained steady, with seven new inventions submitted for evaluation. This number of disclosures is appropriate given the size of the COM R&D expenditures since one typically expects one disclosure for every $2 million in R&D expenditures. Material transfer agreements, both incoming and outgoing, increased significantly this year and remain an area which requires attention to balance proprietary and scientific interests.

Three license agreements were signed by SAMSF in FY2002 — one completely new license and two significant re-negotiations. Each agreement is structured to provide income and ensure diligent development of the inventions to fulfill COM’s public service mission. The complexity of licensing arrangements continues to increase as biotechnology and pharmaceutical companies deal with the uncertainties of the financial markets. A typical license negotiation now normally takes 6-9 months to execute final agreements.

Research support associated with inventions more than doubled this fiscal year. While licensing revenue declined slightly, it is expected to increase consistently over the next few years as regular payments negotiated in recent license agreements begin to come due.
The College of Medicine and its inventors, through SAMSF, received $64,953 associated with the licensing of inventions made by its faculty and generated $329,000 in sponsored research funding associated with inventions. Licensees of COM inventions reimbursed the South Alabama Medical Science Foundation (SAMSF) for 54% of legal fees spent on patenting and licensing activities related to those inventions.

In FY2002, three inventions developed by College of Medicine faculty were issued patents by the US Patent & Trademark Office:

- **US 6,335,174**
  Oncofetal Antigen Specific T-Lymphocyte Mediated Immune Response: Uses of CD4, CD8 Cytotoxic and Suppressor T-Cells and IL-10
  (J. Coggin, J. Rohrer & A. Barsoum)

- **US 6,395,768**
  Uses for Indole-3-Propionic Acids
  (M. Pappolla)

- **US 6,451,360**
  Method for Treating a Subject Afflicted With Intestinal Malabsorption
  (S. Bailey & J. Ayling)

Further details about the operation of the Office of Technology Development in FY2002, and a comparison with the statistics of the previous three fiscal years, can be found in the table below.

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<tr>
<th></th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
<th>CUM TOTAL</th>
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<td>Gross Licensing Revenue</td>
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<td>Total Active Licenses</td>
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<td>Invention Disclosures</td>
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<td>US Patents Filed (all types)</td>
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<td>Start-up Companies Formed</td>
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<td>Legal Fees Expended</td>
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<td>Legal Fees Reimbursed</td>
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<td>Percent of Expenses Reimbursed</td>
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<td>71%</td>
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<td>Research Agreements Executed</td>
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<td>1</td>
<td>3</td>
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<td>Research Dollars associated with Inventions</td>
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<td>$745,600</td>
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SUMMARY OF EXTRAMURAL SUPPORT

The record of extramural support is an especially noteworthy 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 2001-2002 academic year includes $19,033,003 and $1,701,488 administered through the University's Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

EXTRAMURAL FUNDS
Totals for Recent Years

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<tr>
<td>2002</td>
<td>20,734,491</td>
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College of Medicine
Total Annual Extramural Funds From All Sources

[Graph showing the trend of extramural funds from 1977 to 2002]
## EXTRAMURAL FUNDING
**(OCTOBER 1, 2001-SEPTEMBER 30, 2002)**

### BIOCHEMISTRY AND MOLECULAR BIOLOGY

<table>
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<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>PROJECT TITLE</th>
<th>AGENCY</th>
<th>YEAR'S TOTAL FUNDING</th>
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<tr>
<td>Nathan Aronson</td>
<td>Structure and Mechanisms of a Family of 18 Chitinases</td>
<td>NIH – Subcon Duquesne Univ</td>
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<td>Sailen Barik</td>
<td>Reversible Protein Phosphorylation in Apicomplexans</td>
<td>NIH</td>
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<td>Role of ER Stress in RNA Virus Induced Apoptosis</td>
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<td>Interactions Between Ocular Tissue and RSV</td>
<td>NIH</td>
<td>214,800</td>
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<td>James W. Gaubatz</td>
<td>Dietary Mutagens and Breast Cancer</td>
<td>NIH</td>
<td>174,201</td>
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<td>Richard E. Honkanen</td>
<td>Cardioprotective Agents in Ischemic Myocytes</td>
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<td>Regulation and Function of SER/THR Protein Phosphatases in Response to Oxidative Stress (Predoctoral Fellowship)</td>
<td>AHA (SE Affiliate)</td>
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<td>Structure-Based Drug Discovery for the Development of Type-Specific Inhibitors of SER/THR Protein Phosphatases as Anti-Cancer Agents</td>
<td>NASA</td>
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<td>Mechanisms of Tumor Promotion and Carcinogenesis</td>
<td>NIH</td>
<td>245,623</td>
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**$1,364,108**
## BIOMEDICAL LIBRARY

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<tr>
<td>Everly Brown</td>
<td>Exhibiting in NN/LM's Southeastern Region</td>
<td>NLM (Subcon-Univ of Maryland)</td>
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<td>Judy Burnham</td>
<td>Exhibiting at Regional Health Professional Meetings</td>
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<td>Technology Awareness: Cybercafe at Annual Meeting of Med Assn of State of Alabama</td>
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## CANCER RESEARCH INSTITUTE

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<tr>
<td>Michael Boyd</td>
<td>USA Cancer Institute Research Building Renovation</td>
<td>HRSA</td>
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<tr>
<td>Yogendra M. Bhatnagar</td>
<td>Comprehensive Sickle Cell Core Lab*</td>
<td>NIH</td>
<td>$ 75,792</td>
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<tr>
<td>Phillip A. Fields</td>
<td>Hormonal Regulation of the Cervix During Pregnancy</td>
<td>NIH (Subcontract)</td>
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<td>Anthony L. Gard</td>
<td>Mediators of Oxidative Damage in Oligodendrocytes</td>
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<td>Lipid Peroxidation Damage in Oligodendrocytes: Role of 4-Hydroxynonenal</td>
<td>Nat Multiple Sclerosis Soc</td>
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<td>Susan P. Ledoux</td>
<td>Repair of DNA Damage Induced by Environmental Agents</td>
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<td>Solomon Ofori-Acquah</td>
<td>Modulation of Globin Expression by Antisense Transcripts*</td>
<td>NIH</td>
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<td>Betty S. Pace</td>
<td>Health Care Services to Sickle Cell Patients in Rural Alabama</td>
<td>RW Johnson Fdn</td>
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<td>Mechanisms for p38 MAP Kinase Dependent Y Gene Induction</td>
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<td>Mechanisms for p38 MAP Kinase Dependent Y Gene Induction (Supplement)</td>
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<td>Novel Mechanism for Globin Gene Silencing During Alternate Lineage Commitment*</td>
<td>NIH</td>
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<td>Archil Shartava</td>
<td>The Molecular Defect(s) Within the Spectrin Membrane Skeleton of Irreversibly Sickled Cells*</td>
<td>NIH</td>
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### CELL BIOLOGY AND NEUROSCIENCE (CONT)

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<td>Glenn L. Wilson</td>
<td>Environmental Beta Cell Toxins--Mechanisms of Action</td>
<td>NIH</td>
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<td>Oxidative Damage and Repair in Neuronal mtDNA</td>
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### CENTER FOR LUNG BIOLOGY

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<td>Troy Stevens</td>
<td>Lung Endothelial Cell Phenotypes**</td>
<td>NIH</td>
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**The Individual projects are listed in Departmental Sections.**
**COMPARATIVE MEDICINE**

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<tr>
<td>Christian R. Abee</td>
<td>A Squirrel Monkey Breeding and Research Resource</td>
<td>NIH</td>
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<td>Breeding Colony for Squirrel Monkeys – Malaria Study</td>
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<td>A Squirrel Monkey Breeding and Research Resource</td>
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<td>Experimental Creutzfeldt-Jakob Disease in the Squirrel Monkey</td>
<td>Baxter Health-Care Corp</td>
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$1,898,864

**COMPREHENSIVE SICKLE CELL CENTER**

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<tr>
<td>Johnson Haynes, Jr.</td>
<td>Comprehensive Sickle Cell Center Program*</td>
<td>NIH</td>
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<td>Community Outreach Education and Distance Learning Project</td>
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$1,266,034*

* The individual projects are listed in Departmental Sections.
### DEAN'S OFFICE

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<tr>
<td>Samuel J. Strada</td>
<td>Cardiovascular Research for Medical Students</td>
<td>SE Affiliate AHA</td>
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### EMERGENCY MEDICINE

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<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>A Randomized, Double-Blinded, Placebo-Controlled, Multicenter, Long-Term Efficacy Study Trial of Preventing Hypertension Using Candesartan Cilexetil 16mg in Patients With Borderline Hypertension High Normal Blood Pressure</td>
<td>Astra/IBAH</td>
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<td>Omapatrilat Cardiovascular Treatment Assessment Versus Enalapril (OCTAVE), CV137-120</td>
<td>Bristol-Myers Squibb</td>
<td>5,281</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>
<td>AstraZeneca</td>
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<td>A Randomized, Double-Blind, Placebo-Controlled, Forced Titration Study of Ascending Doses of CS-866, Losartan and Valsartan in Patients With Essential Hypertension</td>
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### EMERGENCY MEDICINE (CONT)

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<tbody>
<tr>
<td>Frank Pettyjohn</td>
<td>Anti-hypertensive Efficacy of Adding Candesartan Cilexetil to Lisinopril in Comparison to Up-titration of Lisinopril</td>
<td>AstraZeneca</td>
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<td>The Efficacy and Safety of Omapatrilat Added to Hydrochlorothiazide for the Treatment of Hypertension in Subjects Non-Responsive to Hydrochlorothiazide Alone</td>
<td>Bristol-Myers Squibb</td>
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<td>A Double-Blind Comparison of the Effects of Lercanidipine and Amlodipine on the Occurrence of Peripheral Edema in Hypertensive Patients</td>
<td>Forest Labs</td>
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<td>Systolic and Pulse Pressure Hemodynamic Improvement by Restoring Elasticity: The Sapphire Study</td>
<td>Alteon, Inc.</td>
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### EMERGING HEALTH TECHNOLOGY

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<td>Carl Taylor</td>
<td>USA Teletrauma</td>
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### FAMILY PRACTICE AND COMMUNITY MEDICINE

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<td>R. Allen Perkins</td>
<td>Graduate Training in Family Medicine</td>
<td>HRSA (BHP)</td>
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<td>Longitudinal Preceptorship for Medical Students</td>
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<td>Family Medicine Interest Group Lecture Series</td>
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<td>E. Lee Taylor</td>
<td>Student Preceptorship Subsidy</td>
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### MEDICAL GENETICS

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<td>Wladimir Wertelecki</td>
<td>South Alabama Regional Genetics Program</td>
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<td>Genetics and Mental Health Program</td>
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<td>Alabama Birth Defects Surveillance &amp; Prevention Program</td>
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<tr>
<td>Michael Culpepper</td>
<td>A Double-Blind, Randomized, Placebo and Active Controlled Parallel Group, Dose-Finding Study to Evaluate the Efficacy and Safety of Once Daily Oral Administration of 5mg, 10mg, 25mg, 50mg of M100240 for 8 Weeks in Subjects with Mild-to-Moderate Essential Hypertension.</td>
<td>Aventis</td>
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<td>Randomized, Double-Blind, Comparator Controlled Trial to Evaluate the Pharmacodynamic Effects, Pharmokinetics and Safety of M100240 in Subject With Essential Hypertension Treated for 4 Weeks</td>
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<td>A Phase 3 Study to Assess the Efficacy and Safety of an Oral Calcimimetic Agent (AMG073) in Secondary Hyperparathyroidism of End Stage Renal Disease Treated With Hemodialysis</td>
<td>Amgen</td>
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<td>Jack DiPalma</td>
<td>Braintree-Colon Cleansing Comparison</td>
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<td>Johnson Haynes</td>
<td>Acute Lung Injury in Sickle Cell Disease*</td>
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<td>Education of Health Professionals*</td>
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<td>Sickle Cell Disease Administrative Core*</td>
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<td>Jorge Herrara</td>
<td>Chronic Hepatitis Research</td>
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<td>Jorge Herrera</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 Alpha + Ribavarin Therapy, Comparing Treatment With Thymosin Alpha 1 + Peginterferon Alfa-2a With Peginterferon Alfa-2a + Placebo</td>
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<td>Candace C. McCombs</td>
<td>C &amp; G Management for Sequella, Inc.</td>
<td>Sequella, Inc. Tuberculosis Fdn</td>
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<td>Jack Painter</td>
<td>A Randomized, Double-Blind, Placebo-Controlled Study of Two Intravenous Dosing Regimens of h5G1,1-scFv in Patients With Acute Myocardial Infarction Undergoing Thrombolytic Reperfusion Therapy</td>
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<tr>
<td>Joseph H. Coggin</td>
<td>Use of ILRP and OFA as Vaccine in Rodent Tumor Therapy</td>
<td>NIH</td>
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<td>John W. Foster</td>
<td>Mechanisms in Control of Acid Resistance in E. Coli</td>
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<td>Novel Molecular Approaches to Eradicate E. Coli 0157 From the Bovine GI Tract</td>
<td>USDA</td>
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<td>Robert N. Lausch</td>
<td>Role of MIP-2 in HSV-1 Induced Corneal Inflammation</td>
<td>NIH</td>
<td>268,229</td>
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<td>Fc Gamma Receptors &amp; Resistance to Herpes Stromal Keratitis</td>
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<td>John E. Oakes</td>
<td>Chemokine Gene Regulation in Human Corneal Epithelia</td>
<td>NIH</td>
<td>282,461</td>
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<td>Herbert H. Winkler</td>
<td>Permeability of the Epidemic Typhus Rickettsia</td>
<td>NIH</td>
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<td>Genomic Level Expression Patterns in Typhus Rickettsiae</td>
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<td>David O. Wood</td>
<td>Genetic Analysis of Rickettsia Prowazekii</td>
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<td>Transport of S-Adenosylmethionine in Rickettsia</td>
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<tr>
<td>John Rothrock</td>
<td>A Randomized, Double-Blind, Placebo-Controlled, Parallel Group, Dose-Response Study to Evaluate the Efficacy and Safety of Topiramate in the Prophylaxis of Migraine USA Headache School Study</td>
<td>RW Johnson Pharm Res Institute</td>
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<td>Richard M Zweifler</td>
<td>Vitamin Intervention for Stroke Prevention</td>
<td>Glaxo Smith Kline</td>
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<td>A Double-Blind, Randomized, Multicenter, Parallel Dose Study to Evaluate the Safety and Efficacy of Zonisamide 150 mg and 300 mg per Day and Placebo in Subjects With Migraine Headache</td>
<td>Elan Pharmaceuticals</td>
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<td>Warfarin VS Aspirin for Intracranial Arterial Stenosis (WSAID)</td>
<td>NIH – Subcon Bowman-Gray</td>
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<td>Mild Induced Hypothermia in Awake, Unanesthetized Health Volunteers</td>
<td>NIH – Subcon Emory</td>
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<td>AMPA Receptor Antagonist Treatment in Ischemic Stroke Trial - MRI (ARTIST MRI)</td>
<td>Yamanouchi USA</td>
<td>16,794</td>
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<td>Management of Atherothrombosis With Clopidogrel in High-Risk Patients With Recent Transient Ischemic Attack or Ischemic Stroke (Match Study)</td>
<td>Sanofi-Synthelabo Recherche</td>
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<td>A Randomized, Placebo-Controlled, Three Treatment Arm Study to Determine the Safety and Efficacy of Aratroban in Patients With Acute Ischemic Stroke</td>
<td>Texas Biotech Corp</td>
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<td>Botros Rizk</td>
<td>Teriparatide Compared With Alendronate on Spine Bone Mineral Density in Postmenopausal Women With Osteoporosis</td>
<td>Eli Lilly &amp; Co</td>
<td>22,339</td>
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<td>Raloxifene Alendronate Comparison in Postmenopausal Women With Osteoporosis</td>
<td>Eli Lilly &amp; Co</td>
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<td>A Phase III, Multinational, Randomized, Double-Blind, Parallel-group, Placebo-controlled 24 Week Study to Evaluate the Efficacy and Safety of Transdermal Testosterone in Naturally Menopausal Women With Hypoactive Sexual Desire Disorder on Current Oral Hormone Replacement Therapy</td>
<td>Procter&amp;Gamble</td>
<td>10,848</td>
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<td>A Phase III, Multinational, Randomized, Double-Blind, Parallel-group, Placebo-controlled 24 Week Study to Evaluate the Efficacy and Safety of Transdermal Testosterone in Women With Hypoactive Sexual Desire Disorder on Concurrent Estrogen Replacement Therapy Who Have Undergone Hysterectomy and Bilateral Oophorectomy</td>
<td>Procter&amp;Gamble</td>
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<tr>
<td>Ian Thorneycroft</td>
<td>A Prospective, Double-Blind, Randomized Study of the Safety and Efficacy of Lower Doses of Premarin and Medroxyprogesterone Acetate in Postmenopausal Women</td>
<td>Wyeth-Ayerst Res</td>
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### ORTHOPAEDIC SURGERY

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<th>Agency</th>
<th>Year's Total Funding</th>
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<tr>
<td>V Raducan</td>
<td>Biomechanical Properties of C1-C2 Interlaminar Claw Fixation for Treatment of C1-C2 Instability</td>
<td>Medtronic</td>
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<td>A Pearsall</td>
<td>Sports Medicine Research Fellowship</td>
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### PATHOLOGY

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<td>Miguel Pappolla</td>
<td>Melatonin as a New Anti-Amyloidogenic and Antioxidant Agent</td>
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<tr>
<td>Fabien Eyal</td>
<td>Growth and Tolerance in Premature Infants Fed Mother's Milk Supplemented with Human Milk Fortifiers</td>
<td>Mead Johnson &amp; Co</td>
<td>$17,133</td>
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<td>David Gremse</td>
<td>A Randomized, Double-Blind, Parallel, Multicenter Pediatric Study of Axid (Nizatidine) Versus Placebo in the Treatment of Gastroesophageal Reflux Disease (GERD) in Children Age 1-12</td>
<td>Reliant Pharm LLC</td>
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<td>An Open Label, Randomized, Multiple Dose, Parallel, Multicenter Study of Axid (Nizatidine) in the Treatment of Gastroesophageal Reflux (GER) Symptoms in Pediatric Subjects Age 5 Days - 18 Years</td>
<td>Reliant Pharm LLC</td>
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<td>An Open Label, Randomized, Parallel, Multicenter Pharmacokinetics (PK) and Pharmacodynamics (PD) Study of Axid (Nizatidine) in Pediatric Subjects Age 5 Days - 18 Years With Gastroesophageal Reflux (GER) Symptoms</td>
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<td>An Extended, Stratified Follow-on Study in Pediatric Subjects With Chronic Hepatitis Who Have Completed Previous Lamivudine Studies</td>
<td>Glaxo Wellcome</td>
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<td>A Study to Evaluate the Safety and Efficacy of Lansoprazole in Adolescents With GERD After 8 to 12 Weeks of Treatment</td>
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<tr>
<td>Kenneth Rettig</td>
<td>ANA-2126 Basal/Bolus Therapy With Insulin Lispro (Humalog) in Combination With NPH: An Open-Label, Randomized Parallel Group, Multicenter Study in Children and Adolescents With Type 1 Diabetes</td>
<td>Novo Nordisk Pharm Inc</td>
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<td>Mary Y. Mancao</td>
<td>Southeast Pediatric AIDS Clinical Trial Unit</td>
<td>NIH (Subcon UAB)</td>
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<td>USA Family Specialty Clinic</td>
<td>HRSA</td>
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<td>Lawrence J. Sindel</td>
<td>Cystic Fibrosis Center Program</td>
<td>Cystic Fibrosis Fdn</td>
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<td>Franklin Trimm</td>
<td>High-Risk Infant Development Follow-Up Project</td>
<td>ADPH</td>
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<td>Yih-Ming Yang</td>
<td>Per Case &amp; Specimen Reimbursement Agmt</td>
<td>NIH (Subcon-Fdn Children’s Oncol Gp)</td>
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<td>A Safety Trial Using Recombinant Urokinase in the Treatment of Occluded Central Venous Catheters</td>
<td>Abbott</td>
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# PHARMACOLOGY

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<td>Abu-Bakr Al-Mehdi</td>
<td>Contrast Agents for Far-Red and Near Infra-Red Imaging</td>
<td>NIH (SBIR Phase II PTI RES, Inc)</td>
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<td>Effect of Normo-Hyperbaric Hyperoxia on the Fate of Tumor Cells and Leukocytes in the Pulmonary Circulation</td>
<td>NIH (Subcon-U/Penn)</td>
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<td>Fate of Breast Tumor Cells in Lung Vessels</td>
<td>S G Komen Breast Cancer Fdn</td>
<td>35,912</td>
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<td>Mikhail F. Alexeyev</td>
<td>Modulation of Oxidative Mitochondrial DNA Damage in the Rat Cardiac Myocytes with Cell-Permeable Enzyme Chimeras</td>
<td>SE Affiliate AHA</td>
<td>77,000</td>
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<td>June Ayling</td>
<td>EYH Conference on Careers in Science</td>
<td>NASA (Subcon UAH)</td>
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<td>Accumulation of Folic Acid Polyglutamates: A Potential Cause of Inadequate Response to Treatment of Hyperhomocysteinemia</td>
<td>SE Affiliate AHA</td>
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<td>Pharmacokinetics and Metabolic Effects of Folic Acid</td>
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<td>Surface Plasmon Resonance Investigation of Macromolecular Interactions</td>
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<td>Alabama Structural Biology Consortium</td>
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<tr>
<td>Mark Gillespie</td>
<td>Mitochondrial DNA Integrity and Endothelial Cell Free Radical Stress**</td>
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<td>Jack Olson</td>
<td>Ornithine Decarboxylase (ODC) and Monocrotaline Pneumotoxicity</td>
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<td>Program Project Grant Gene Delivery Core**</td>
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<td>Jonathan C. Scammell</td>
<td>Animal Model of Glucocorticoid Resistance</td>
<td>NIH</td>
<td>214,869</td>
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<td>Mineralocorticoid Selectivity in an Animal Model of Hypercortisolism (Predoctoral Fellowship)</td>
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<td>Stephen Schaffer</td>
<td>Effect of Diabetes and Hypertension on Ischemic Injury</td>
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<td>256,538</td>
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<td>Does Chronic Therapy With Candesartan Prevent Renal Dysfunction in a New Hypertensive Rat Model of Non-Insulin-Dependent Diabetes?</td>
<td>AstraZeneca</td>
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<td>Troy Stevens</td>
<td>Regulation of Pulmonary Resistance Vessels</td>
<td>NIH (Subcon Wakeforest)</td>
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<td>Ca2++ Inhibition of cAMP in Lung Endothelial Permeability</td>
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<td>Regulation of Endothelial Barrier Integrity by Protein 4.1 Dependent Store Operated Calcium Entry (Predoctoral Fellowship)</td>
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<td>Troy Stevens</td>
<td>Calcium Inhibition of cAMP in Endothelial Cell Permeability**</td>
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<td>Program Project Grant Administrative Core**</td>
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<td>S.J. Strada</td>
<td>Cell Pathways Collaborative Research</td>
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<td>Songwei Wu</td>
<td>Role of T-Type Calcium Channels in Vaso-Occlusion of Sickled Erythrocytes in the Lung Mocrocirculation</td>
<td>AHA</td>
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<td>Danna Zimmer</td>
<td>Studies of Interactions Between P53 and S100 Proteins</td>
<td>ACS – Subcon Univ MD</td>
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<td>EYH Conference on Careers in Science, Math and Engineering for Middle School Girls</td>
<td>NASA (U/AL/Huntsville AL Space Grt Consort</td>
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<td>Mechanisms for Fetal Hemoglobin Induction*</td>
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<tr>
<td>Stephen T. Ballard</td>
<td>Airway Submucosal Glands and Cystic Fibrosis Disease</td>
<td>NIH</td>
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<td>James M. Downey</td>
<td>Physical Factors and Coronary Flow</td>
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<td>P38 MAK Involvement in the Protective Effect of Ischemic Preconditioning</td>
<td>Boehringer Ingelheim</td>
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<td>Cognetix CGX 1051 Research</td>
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<td>James C. Parker</td>
<td>Airway Perfusion Assisted Liquid Ventilator</td>
<td>STTR Phase II (Subcon-Mallard Medical)</td>
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<td>Mechanical Injury to Lung Endothelium**</td>
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<td>Aubrey E. Taylor</td>
<td>T-Lymphocyte Involvement in Lung Ischemia-Reperfusion Injury</td>
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<td>Mary L. Townsley</td>
<td>Regulation of Pulmonary Endothelial Permeability</td>
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### Radiology

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<td>Steven K. Teplick</td>
<td>USA PET/CT Center</td>
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### Rural Health

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<td>Basic/Core AHEC Grant</td>
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<td>Recruitable Communities Project</td>
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<td>Richard P. Gonzalez</td>
<td>Center for the Study of Rural Vehicular Trauma</td>
<td>DOT</td>
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<td>Arnold Luterman</td>
<td>Clinical Evaluation of Regranex (becaplermin) Gel 0.01% for the Treatment of Full Thickness Diabetic Neuropathic Foot Ulcers</td>
<td>Ortho-McNeil</td>
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<td>A Multicenter, Randomized, Double-Blind Comparative Trial of Intravenous Merrem vs Primaxin I.V. in the Treatment of Hospitalized Subjects With Complicated Skin and Skin Structure Infections</td>
<td>AstraZeneca</td>
<td>7,000</td>
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<td>A Prospective, Multicenter, Double-Blind With In-House Blinding, Randomized, Comparative Study to Evaluate the Efficacy, Safety, and Tolerability of Ertapenem Versus Piperacillin/Tazobactam in the Treatment of Diabetic Foot Infections in Adults</td>
<td>Merck</td>
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<td>A Multi-Center Clinical Trial of the Effects of Topical Application of Cerium Nitrate/Silver Sulfadiazine Cream Versus Silver Sulfadiazine Cream Alone in the Treatment of Burn Patients</td>
<td>Synthes USA</td>
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<td>A Study to Assess the Safety and Efficacy of Fibrin Sealant (FS 4IU) for Wound Healing in Subjects with Burn Wounds Requiring Skin Grafting Procedures</td>
<td>Baxter Healthcare Corp</td>
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<td>A Phase II, Open Label, Randomized Dose-Ranging Study of the Safety and Efficacy of Intravenous Anidulafungin (VER002) in the Treatment of Patients With Invasive Candidiasis</td>
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<tr>
<td>Arnold Luterman</td>
<td>A Phase II, Multi-Center, Randomized, Double-Blind, Placebo-Controlled, Parallel-Group, Dose-Ranging Evaluation of -hANP Infusion (Carperitide for Injection:SUN 4936) in Patient With Acute Respiratory Distress Syndrome (ARDS)</td>
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$ 573,003
2001-2002
OFFICE OF STUDENT AFFAIRS AND MEDICAL EDUCATION

The Office of Student Affairs and Medical Education is responsible for all educational programs in the College of Medicine from admission to medical school through post-residency education. These activities encompass the areas of Admissions, Student and Academic Affairs, Graduate Medical Education, Continuing Medical Education, and Alumni Affairs.

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

Student Affairs

Orientation programs were held for entering Freshman on August 14-16, 2002. Sixty-nine students attended two days of structured activities which included introductory talks or presentations from the COM administration, Medical Alumni Association, Biomedical Library, and various student organizations, a course in CPR and a book and instrument sale. Orientation events included dinners at faculty homes on Wednesday night and a picnic at Bay Front Park in Daphne on Thursday. Orientation concluded on Friday with a variety of optional activities including a beach trip. 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 13, 2002. 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 third annual White Coat Ceremony was held on Sunday, May 12, 2002, in the University Ballroom. Students and their families were welcomed by Dr. Bennett for the Office of Student Affairs and Medical Education and Dr. Kathleen Webster for the Medical Alumni Association. Dr. Richard Teplick, who was selected by the class to speak to them at this event, gave a short talk on what it means to be a physician. Following his address, Dr. Ken Rettig and Dr. Hattie Myles presented members of the sophomore class 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. Robert Kreisberg administered the USA "Medical Student Oath." 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 national AMA meetings was supported by providing funds to support travel for two student representatives to the AMA annual and interim meetings in Chicago and San Francisco. Two students also received support for attendance at the Organization of Student Representatives (OSR) meetings at the AAMC annual meeting in Washington DC and one student attended the OSR Spring Meeting in Palm Springs.
The office revised and printed the following publications: Residency Selection Handbook, Student Handbook 2002-2003, Elective Manual, and Student Telephone Book. The Office also developed a Student Affairs and Medical Education Web Site (http://southmed.usouthal.edu/com/same) which contains links to the Elective Manuals (freshman/sophomore and senior), and Student Handbook as well as other important information.

The Office supports a tutoring program which pays upperclassman and/or graduate students to tutor Freshman and Sophomore students who request assistance. In 2001-2002, six (6) tutors provided 71 hours of tutoring to ten (10) students in Histology, Gross Anatomy, and Physiology.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2001-2002 is outlined below.

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Letters of evaluation (Dean’s Letters) were written for each of the 60 seniors who graduated in May 2002. Original letters and official transcripts were mailed to 143 residency directors during the months of November through January; students applied to 1482 residency programs through the AAMC Electronic Residency Application Service (ERAS).

One student in the Class of 2002 deferred residency for a year to participate in an ophthalmology fellowship at the University of Alabama School of Medicine. One additional student deferred residency for a year for personal reasons. Fifty-eight students matched for residency positions with fifty-five of the May graduates using the NRMP as their primary means of obtaining residency. Four graduates used the San Francisco Subspecialty Match.

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Data no longer provided
## University of South Alabama Seniors
### Residencies Received by Discipline

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## University of South Alabama Seniors
### Residencies Received by State

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Sixty seniors received the degree Doctor of Medicine at Commencement on May 4, 2002. On the evening of May 3, the College held its twenty-seventh Honors Convocation, which took place in the Mitchell Center. Dr. William Gardner addressed the class and Jeremy Thomas responded for the graduates. Prior to hooding the graduates, the following awards were presented:

- **Dean's Award** .......................................................... Joseph F. Sedrak
- **Outstanding Student in the Anatomical Sciences** ............................ John F. LeDoux
  .......................................................... Joseph F. Sedrak
- **Charles M. Baugh Award in Biochemistry** ..................................... John F. LeDoux
- **Medical Assurance Award** .................................................. John F. LeDoux
- **Humanism in Medicine Award** ............................................... Todd B. Edmiston
- **Community Service Award** .................................................. Todd B. Edmiston
- **Lewis Anderson Medical Student Achievement Award** ..................... Todd B. Edmiston
- **Obstetrics/Gynecology Award** ............................................... Brandi W. Trammell
- **Medical Alumni Leadership Award** ......................................... J. Jeremy Thomas
- **H.C. Mullins Award in Family Practice and Community Medicine** .......... Emily B. Woodall
- **Pathology Award** .......................................................... Genevieve I. McCleod
- **Merck Award** .............................................................. James B. Lakey
  .............................................................. A. Brent McKinley
- **Samuel Eichold Award** ........................................................ James B. Lakey
  .............................................................. Allison D. Bridges
SNMA Leadership Award ................................................ Aprile B. Gibson

Hollis J. Wiseman Award for Excellence in Pediatrics .......................... Mark T. Gurley

Pharmacology Achievement Award .......................................... Mark T. Gurley

John W. Donald Memorial Award in Surgery ................................. Mark T. Gurley

Charles W. Urschel Achievement Award in Physiology ....................... John F. LeDoux
                                                                  James R. Lakey
                                                                  Jason B. Martin
                                                                  Timothy M. Moore

Excellence in Emergency Medicine Award ................................. Joshua T. Kotouc
# 2001-2002
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United States Medical Licensure Examination (USMLE) Step 1
First Time Takers

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<tr>
<td>National Overall Mean</td>
<td>213</td>
<td>215</td>
<td>215</td>
<td>215</td>
<td>215</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>211</td>
<td>217</td>
<td>216</td>
<td>218</td>
<td>213</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>7%</td>
<td>5%</td>
<td>7%</td>
<td>8%</td>
<td>10%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>2%(1)</td>
<td>8%(5)</td>
<td>5%(3)</td>
<td>0</td>
<td>5%</td>
</tr>
</tbody>
</table>

Standard Deviation approximately 20
### United States Medical Licensure Exam (USMLE) Step 2  
**First Time Takers**

<table>
<thead>
<tr>
<th></th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Number of Students</strong></td>
<td>62</td>
<td>59</td>
<td>59</td>
<td>64</td>
<td>57</td>
</tr>
<tr>
<td><strong>National Overall Mean</strong></td>
<td>209</td>
<td>210</td>
<td>213</td>
<td>215</td>
<td>216</td>
</tr>
<tr>
<td><strong>USACOM Overall Mean</strong></td>
<td>209</td>
<td>202</td>
<td>217</td>
<td>212</td>
<td>221</td>
</tr>
<tr>
<td><strong>Percentile Rank</strong></td>
<td>55</td>
<td>43</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>1998</th>
<th>1999</th>
<th>2000</th>
<th>2001</th>
<th>2002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health &amp; Health Maintenance</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Understanding Mechanisms of Disease</td>
<td>209 (+3)</td>
<td>198(-9)</td>
<td>217(+4)</td>
<td>211(-3)</td>
<td>NA</td>
</tr>
<tr>
<td>Diagnosis</td>
<td>208 (-1)</td>
<td>204(-8)</td>
<td>214(+1)</td>
<td>215 (0)</td>
<td>NA</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>204 (+1)</td>
<td>198(-5)</td>
<td>218(+5)</td>
<td>212 (-2)</td>
<td>NA</td>
</tr>
<tr>
<td>Medicine</td>
<td>208 (-1)</td>
<td>203(-7)</td>
<td>214(+1)</td>
<td>210 (-5)</td>
<td>NA</td>
</tr>
<tr>
<td>Ob/Gyn</td>
<td>214 (+9)</td>
<td>198(-8)</td>
<td>221(+10)</td>
<td>213 (+1)</td>
<td>NA</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>212 (+8)</td>
<td>202(-5)</td>
<td>219(+7)</td>
<td>214 (0)</td>
<td>NA</td>
</tr>
<tr>
<td>Prev. Med. &amp; Pub. Health</td>
<td>212 (+8)</td>
<td>202(-5)</td>
<td>218(+4)</td>
<td>211 (-3)</td>
<td>NA</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>204 (-5)</td>
<td>206(-5)</td>
<td>212(-1)</td>
<td>214 (-1)</td>
<td>NA</td>
</tr>
<tr>
<td>Surgery</td>
<td>204 (-1)</td>
<td>198(-8)</td>
<td>216(+3)</td>
<td>211(-4)</td>
<td>NA</td>
</tr>
<tr>
<td><strong>Failure Rate - National</strong></td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>4%</td>
</tr>
<tr>
<td><strong>Failures at USA</strong></td>
<td>3% (2)</td>
<td>10%(6)</td>
<td>2%(1)</td>
<td>5%(3)</td>
<td>0</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

Standard deviation = approximately 20
United States Medical Licensure Examination (USMLE) Step 3

<table>
<thead>
<tr>
<th></th>
<th>Class of 1995</th>
<th>Class of 1996</th>
<th>Class of 1997</th>
<th>Class of 1998</th>
<th>Class of 1999</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Percentage Passing</td>
<td>95</td>
<td>96</td>
<td>96</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>98</td>
<td>92</td>
<td>100</td>
<td>100</td>
<td>98</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>57</td>
<td>63</td>
<td>58</td>
<td>62</td>
<td>53*</td>
</tr>
</tbody>
</table>

*53/58 students have taken Step 3 as of 4/02
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 1999 graduates. A total of 51 responses was received out of 58 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 60% 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 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
<th>Class of 2001</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Medical Knowledge</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>16%</td>
<td>29.75%</td>
<td>24%</td>
<td>19%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>39%</td>
<td>26.5%</td>
<td>28%</td>
<td>23%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>33%</td>
<td>30.5%</td>
<td>48%</td>
<td>55%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>10%</td>
<td>12%</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>2%</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Data Collection Recording Skills</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>23%</td>
<td>32%</td>
<td>38%</td>
<td>15%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>47%</td>
<td>28.5%</td>
<td>28%</td>
<td>57%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>33%</td>
<td>26.5%</td>
<td>35%</td>
<td>26%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>3%</td>
<td>6.5%</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>2%</td>
<td>0%</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Clinical Judgment and Skills</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>25%</td>
<td>37%</td>
<td>40%</td>
<td>19%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>41%</td>
<td>25%</td>
<td>38%</td>
<td>51%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>28%</td>
<td>28%</td>
<td>19%</td>
<td>25%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>3%</td>
<td>7%</td>
<td>2%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>1%</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td><strong>Professional Attitudes</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top Fifth</td>
<td>37%</td>
<td>53%</td>
<td>45%</td>
<td>40%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>37%</td>
<td>23%</td>
<td>43%</td>
<td>53%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>18%</td>
<td>15%</td>
<td>12%</td>
<td>2%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>8%</td>
<td>4%</td>
<td>0%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>4%</td>
<td>0%</td>
<td>0%</td>
</tr>
</tbody>
</table>

*Evaluated by Residency Program Director and/or Faculty
The 2001-2002 Curriculum Committee was chaired by Dr. Steve Greenberg. The first activity of the academic year was the third annual Curriculum Retreat, which was sponsored by the Committee and held at the Brookley Conference Center. The Retreat was attended by 34 participants, representing 15 departments, the Biomedical Library, the College of Medicine Administration, and the Student Body. The Retreat opened with an update on curricular changes resulting from previous retreats, in particular implementation of the "Doctoring" courses (including the longitudinal clinical experience) and changes in instruction in medical ethics. This presentation was followed by a review of the current status of the Clinical Skills Examination proposed by the USMLE and a discussion of ways in which we could provide our students with experience with standardized patients. The remainder of the Retreat was devoted to an in-depth review of the curriculum. After a general overview of the curriculum was presented by Dr. Bennett, panels composed of course directors and students for each of the first three years gave brief descriptions of each of the required courses in the curriculum and general student reaction to them. Following these presentations, Dr. Bennett described the methods used to evaluate the curriculum. Discussion followed. The participants concluded that: (1) the content and order of the required courses in the first three years is appropriate and there do not seem to be large gaps in basic science knowledge that are perceived by the clinical faculty; and (2) students are prepared to proceed with electives after their third year clerkships.

During the 2001-2002 academic year, the Curriculum Committee concentrated on three areas. These were: (1) implementation of the plans for year-by-year curriculum review developed during the previous academic year; (2) development of "longitudinal threads" in medical ethics and public health/epidemiology to be formally incorporated into the third year clerkships; (3) investigation of ways in which we might provide our students with exposure to standardized patients.

The Curricular Review Subcommittee, chaired by Dr. Cynthia Donnell, was charged with obtaining from the director of each course in the freshman year a list of course objectives, the manner in which the accomplishment of these objectives is evaluated, and linkage of the objectives to the institutional educational objectives. In March, April, and May, these course directors met with the Committee to give brief presentations about their courses and to answer questions from the Committee. The Committee thought that this was a useful and informative process and plans to continue with second year curriculum during the 2002-2003 academic year.

The Longitudinal Threads Subcommittee, chaired by Dr. Lee Taylor, was charged with continuing oversight of the longitudinal clinical experience occurring in the "Doctoring" courses in the freshman and sophomore years. In addition they were to develop a standardized curriculum in Medical Ethics to be divided among the third year clerkships and implemented in the 2002-2003 academic year. This subcommittee was composed primarily of clerkship directors and, over the course of the year, the committee developed a very thorough curriculum in both Ethics and Preventive Medicine/Epidemiology detailing topics,
objectives, resources, and methods in instruction and implementation. The curriculum was approved by the Committee in the spring and will be initiated in July, 2002. A general review of these topics in the curriculum will be continued during the 2002-2003 academic year.

The Standardized Patients Subcommittee, chaired by Dr. James Cummings, was charged with considering ways in which we might provide our students with adequate exposure to standardized patients prior to institution of a clinical skills examination as part of the USMLE. The subcommittee concluded that some exposure to standardized patients was desirable before such a high stakes examination. They did not feel that such an experience needed to be extensive and that we should investigate the possibility of using the facilities and/or the standardized patients at Tulane. It was decided that representatives from USACOM should visit the facilities at Tulane and discuss the possibilities of associating with that institution for this purpose. Dr. Bennett subsequently asked Dr. Rettig to oversee this process. He will report to the committee in the fall.

All recommendations from these subcommittees were approved by the Committee.

The Committee reviewed and approved a proposal to change the current Psychiatry Clerkship in the third year to a Psychiatry/Neurology Clerkship. Each department will have three weeks of clinical experience and there will be a series of didactic sessions in both departments which will occur throughout the entire six-week period. At the end of the clerkship, the students will take examinations in both Psychiatry (NBME shelf exam) and Neurology. This change will take effect in July, 2002, and will be monitored by the Curriculum Committee throughout the 2002-2003 academic year.

As a result of the incorporation of Neurology into the third year, the Committee decided that a Neuroscience requirement would no longer be a required part of the fourth-year curriculum effective with the 2003-2004 academic year. Neurosurgery will still be available as an elective and will satisfy the Surgical Subspecialty requirement. The Committee decided to delay discussion of any additional fourth-year requirements that might be implemented into the previous Neuroscience block until after the LCME visit in September.

Other activities of the Committee included:

1. Review and approval of electives for senior students

Teaching Assistantship in Histology
Ophthalmology (with Dr. Leonard Rich)
Ophthalmology (with Dr. Chris Semple)
Medicine and Literature (on-line elective)

2. Reviewed summaries of course evaluations for the first three years of the curriculum
3. Decided not to extend the Doctoring course with its Longitudinal Clinical Experience into the third year at this time.

4. Reviewed USMLE Step 1 Annual Report for students who took Step 1 in calendar year 2001. Performance on the Behavioral Science and Biostatistics and Epidemiology categories remains disappointing and a matter of concern to the Committee. The Committee noted that several changes had been made to the Behavioral Science Course for the current academic year in order to incorporate additional material. It is hoped that these changes will be reflected in improved performance on the 2002 exam. Pre-clinical education in Biostatistics and Epidemiology will likely be the focus of a subcommittee in the 2002-2003 academic year.

5. Reviewed Clinical Skills Cards and approved a new card for Neurology.

6. Ongoing review of library activities.

EXECUTIVE COMMITTEE OF STUDENT ASSEMBLY

1. Following a vote of the senior class, the Student Assembly presented plaques to the best faculty/courses and updated the permanent plaques located in 1005 MSB and in the USAMC Biomedical Library:

   Best Preclinical Course: Pathology
   Best Preclinical Instructor: Roger Lane
   Best Clerkship: Internal Medicine
   Best Clinical Instructor: John Bass, Jr.
   Best 4th Year Rotation: Electron Microscopy

2. Dr. Steve Greenberg replaced Dr. Michael Sternberg as the Clinical Science Faculty Advisor to the Student Assembly.

3. Jeremy Thomas (President of the Student Assembly) and Jimmy Lakey (President of the Senior Class) were given the responsibility of coordinating the Student Report to be included in the database for the upcoming LCME accreditation site visit. A questionnaire was developed using a sample from the LCME as a guide. After approval by the Executive Committee, the questionnaire was distributed to sophomore, junior, and senior students in December and to freshmen in the spring. Results were correlated and summarized by Jeremy and Jimmy and the report was approved by the Executive Committee in April.

4. Kirkland Stein of Alabama Administrators met with the Executive Committee on several occasions regarding problems with student insurance. The decision to switch from Blue Cross/Blue Shield to Mutual of Omaha created numerous unforeseen problems for both the students and Alabama Administrators. The Committee voted unanimously to switch back to Blue Cross/Blue Shield effective March 1, 2002. This change will move our renewal date from fall to spring.

5. The Committee requested that the Administration consider mechanisms by which students could gain earlier exposure to specialties with an early match. Dr. Bennett reviewed the proposed incorporation of Neurology into the third year curriculum and noted that this change was being made in part as a response to the issue of an early match. She noted that the Curriculum Committee has discussed this problem and for the present requests will have to be handled on an individual basis.

6. The Committee reviewed proposals for disability insurance and voted to continue to purchase our policy from the AMA.
7. The Committee reviewed the status of call rooms at both USAMC and USACW. The decision was made that call rooms at USACW would be assigned by gender rather than service.

8. The Committee conducted an ongoing review of preparations for Skit Night and the Review of Systems. A decision was made to re-distribute the money provided to class editors for the Review of Systems to acknowledge the greater contribution made by the Senior Class Editor.

9. The Committee provided funds to the Sophomore Class to assist with Freshman Orientation.
## OFFICE OF FINANCIAL AID

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Financial Aid</td>
<td>$4,454,365</td>
<td>$4,654,669</td>
<td>$5,012,708</td>
<td>$5,350,861</td>
<td>$6,025,601</td>
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<tr>
<td>Students on Aid</td>
<td>239</td>
<td>240</td>
<td>243</td>
<td>240</td>
<td>239</td>
</tr>
<tr>
<td><strong>Loans</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Perkins</td>
<td>130,771</td>
<td>128,017</td>
<td>431,900</td>
<td>240,000</td>
<td>467,555</td>
</tr>
<tr>
<td>Health Professions Loan</td>
<td>38,000</td>
<td>58,240</td>
<td>123,081</td>
<td>231,307</td>
<td>0</td>
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<tr>
<td>Stafford Loan</td>
<td>1,640,560</td>
<td>1,703,052</td>
<td>1,719,656</td>
<td>1,791,278</td>
<td>1,834,097</td>
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<td>Graduate Unsubsidized</td>
<td>1,672,519</td>
<td>1,730,705</td>
<td>1,822,449</td>
<td>2,542,252</td>
<td>3,133,132</td>
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<td>Alternative Loan Program</td>
<td>311,264</td>
<td>396,775</td>
<td>313,392</td>
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<tr>
<td>Loans to Disadvantaged Students</td>
<td>3,979</td>
<td>4,409</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Outside Private Loans</td>
<td>37,718</td>
<td>70,951</td>
<td>31,589</td>
<td>33,200</td>
<td>18,500</td>
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<tr>
<td>Total Loans</td>
<td>$3,869,811</td>
<td>$4,092,149</td>
<td>$4,442,067</td>
<td>$4,838,037</td>
<td>$5,453,284</td>
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<td><strong>Scholarships</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>University Sponsored</td>
<td>279,568</td>
<td>294,050</td>
<td>295,050</td>
<td>344,600</td>
<td>367,950</td>
</tr>
<tr>
<td>Outside Sponsored</td>
<td>97,926</td>
<td>86,120</td>
<td>49,696</td>
<td>8,769</td>
<td>53,128</td>
</tr>
<tr>
<td>Military - Army</td>
<td>22,916</td>
<td>15,241</td>
<td>7,669</td>
<td>17,020</td>
<td>27,089</td>
</tr>
<tr>
<td>Military - Navy</td>
<td>33,341</td>
<td>30,649</td>
<td>38,513</td>
<td>25,546</td>
<td>27,061</td>
</tr>
<tr>
<td>Alabama Medical Board Scholarship</td>
<td>35,000</td>
<td>40,000</td>
<td>45,000</td>
<td>60,000</td>
<td>70,000</td>
</tr>
<tr>
<td>Military - Air Force</td>
<td>38,253</td>
<td>15,261</td>
<td>15,360</td>
<td>12,698</td>
<td>27,089</td>
</tr>
<tr>
<td>Total Scholarships</td>
<td>$472,003</td>
<td>$474,321</td>
<td>$451,288</td>
<td>$488,633</td>
<td>$572,317</td>
</tr>
<tr>
<td><strong>Grants</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scholarships for Disadvantaged Students</td>
<td>6,846</td>
<td>4,915</td>
<td>35,515</td>
<td>1,244</td>
<td>0</td>
</tr>
<tr>
<td>Exceptional Financial Need</td>
<td>62,733</td>
<td>54,410</td>
<td>55,892</td>
<td>28,488</td>
<td>0**</td>
</tr>
<tr>
<td>Disadvantaged Health Professions</td>
<td>42,972</td>
<td>21,874</td>
<td>27,946</td>
<td>14,459</td>
<td>0**</td>
</tr>
<tr>
<td>Total Grants</td>
<td>$112,551</td>
<td>$81,199</td>
<td>$119,353</td>
<td>$44,191</td>
<td>$0</td>
</tr>
</tbody>
</table>

**Average Indebtedness of a Graduating Senior**

$ 55,701 $ 58,636 $ 62,500 $ 70,103 $ 88,717
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, 2001, through July 31, 2002, 38 emergency loans were approved for a total amount of $19,000.00. During that period, 39 payments totalling $19,050.00 were paid back into the loan account.

OFFICE OF SPECIAL PROGRAMS

Biomedical Enrichment and Recruitment Program (BEAR):

Phase I:

The summer of 2002 marked the completion of the sixteenth year for the BEAR program. There were a total of 27 applications submitted for the 2002 program. Seven (7) students entered into Phase I of the BEAR program.

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

Alabama A&M ................................................................. 2
Alabama State ................................................................. 2
Auburn ............................................................... 1
Tuskegee University ......................................................... 1
USA ................................................................. 1

and are residents of the states of Alabama (5), Georgia (1), and Florida (1). Five (5) of the students are female and two (2) are male, and all are of African American descent. The grade point averages of the students who entered the program ranged from 4.0 to 2.5. Their ACT score range was 19-27. To date, a total of 172 students have entered the BEAR program.

Phase II:

Seven (7) of the seven (7) students who participated in Phase I of the program during the summer of 2001 were successful and were promoted into Phase II.

The students in Phase II represented the following schools:

Dillard ................................................................. 1
Springhill ................................................................. 1
Stillman ............................................................. 2
UAB ................................................................. 1
USA ................................................................. 1
Xavier ............................................................. 1
Of the Phase II students who participated, four (4) are residents of Alabama, one (1) is a resident of Louisiana, and two (2) are residents of Georgia. All seven (7) of the students in Phase II were successful and are expected to matriculate into the USA College of Medicine in 2003.

In August 2001, ten (10) minority freshmen entered the College of Medicine; all of them entered through the BEAR program. There were seven (7) 2002 minority graduates; five (5) were former BEAR program participants and two (2) entered through traditional admission. In the fall of 2002, five (5) BEAR students matriculated into the freshman COM class from the original 2000 BEAR cohort of seven (7). Two (2) students from the original 2000 BEAR cohort were unsuccessful. Also, one (1) student from the original 1999 BEAR group who deferred until 2002 entered the freshmen COM class. In the fall of 2002 the total enrollment is 257 students. Thirty-one (12%) are former BEAR students.
The 2001-02 Board of Directors for the Medical Alumni Association consisted of fourteen Mobile physicians. Dr. Kathleen Webster ’91 served as President with the following board members: Dr. Oscar Almeida, Dr. Damian Collins, Dr. Gregory Cotter, Dr. James Cummings, Dr. Wendell Erdman, Dr. David Gremse, Dr. Lisa Habb, Dr. Diana Hashimi, Dr. Russell Hudgens, Dr. Amy Morris, Dr. Robert Percy, Dr. Terry Rivers, and Dr. David Ross. The Medical Alumni Association has a membership of 1600 active alumni.

All alumni projects, activities, and donations are funded by two sources: the Dues Program and the Medical Alumni Annual Fund. The 2001-2002 Dues Program generated $6,840. In 2000, the Board of Directors voted to increase lifetime membership from $500 to $1,000 -- other levels remained the same ($10 for PGY1 alumni and $25 for general membership). There were no lifetime memberships in 2001-02. Total number of lifetime members now stands at 142. The Board of Directors (May 2002 meeting) voted to return a lifetime membership to a $500 level. The Annual Fund raised $45,800 with 24% of total membership participating. Due to national events of September 2001, the Board elected not to conduct the Annual Fund telephone campaign nor press the membership for financial support.

Scholarship development and recognition of academic achievement continues to be a primary focus for the Alumni Association. Twenty-five first-year $1,000 scholarships along with the Christian Grinaker Memorial Scholarship and the Michael Moore Memorial Award for Excellence in Gross Anatomy (freshman year) were awarded in 2001-02. In addition to the above scholarships, two senior medical students received $1,000 travel awards (for foreign clerkships). The Medical Alumni Leadership Award (a senior award elected by the graduating class) was presented at Honors Convocation.

From October 1, 2001, to September 1, 2002, in addition to the financial support of scholarships, the Alumni Association made donations to the COM Alumni Endowment Account ($10,000) and the CWB Biomedical Library ($1000). The Association also provided complete or partial support for the following activities: Match Day, White Coat Ceremony, the Southeast Chapter Meeting, and two alumni receptions with UAB (The Annual State Medical Association Meeting and the Alabama Academy of Family Physicians). Organizations that received financial support were the AMA Medical Student Section, the American Medical Women’s Association, Medical Student Alliance, AAPI USA Chapter, AED Honor Society, CMD Society, Skit Night Committee, and the Review of Systems yearbook. The Association purchased senior mini-diplomas and sponsored pager rental service for sophomore medical students.

The Annual Medical Alumni Weekend was held June 20-23, 2002, at the Perdido Beach Resort. Five reunion classes participated: 1977, 1982, 1987, 1992, and 1997. A total of six CME presentations were made by COM faculty and alumni: Drs. Frank deGruy, LaDonn Swann, Michael Goodlett, Keith Ramsey, Richard Gonzalez, and Robert Kreisberg. The President’s Report was given by Dr. Greg Cotter for Dr. Webster. Dr. Robert Boerth was the recipient of the 2002 Distinguished Service Award.

An extensive database is maintained in the Alumni Office -- other information is available upon request.
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 2001-2002 academic year, USA sponsored ten (10) residency programs, one (1) combined residency program, and four (4) medical subspecialty programs comprised of over 200 residents and fellows.

Ms. Jean Bailey retired after 5 years as Coordinator for Graduate Medical Education and over 20 years of University service. Ms. Judy Getty has assumed the position of Coordinator for Graduate Medical Education.

The Institutional Review by the Accreditation Council for Graduate Medical Education (ACGME) took place on March 26, 2002. Results of this review are pending. Five specialty programs and four subspecialty programs underwent routine site visits by their Residency Review Committees (RRCs) of the ACGME.

The Graduate Medical Education Committee conducted internal reviews (required by the ACGME half-way through the accreditation period) on three programs and is currently reviewing three 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, prior to the time of the RRC Site Visit, any deficiencies noted by the internal review and forces self-review by the program.

A new Internal Review Protocol was developed by the GME Office and approved by the GME Committee to assist in conducting a more in-depth and detailed internal review. This protocol was used as an example by the ACGME to help other programs within the United States develop their institutional procedures.

The GME Office developed a template of information for each residency program in the area of general competencies to help programs pursue a viable method of assessing their residents' education.

The Housestaff Policy and Procedure Manual, as well as the Resident's Contract of Appointment, was updated to comply with new ACGME Institutional Requirements (Revised July 2002). The Housestaff Manual is in "pdf" format on the Residency Programs website for easy retrieval and revision. Several new policies were added to the manual including a policy on Resident Duty Hours.

Through the GME Office, each program was required to develop job descriptions for each year of postgraduate residency training in order to comply with new JCAHO requirements. These descriptions are currently being reviewed and will be placed on the USA Hospitals' web page.
CONTINUING MEDICAL EDUCATION

The mission of the Office of Continuing Medical Education is to provide educational activities designed to enhance the knowledge, skills, and clinical competence of physicians in order to improve the quality of health care provided for the citizens of Alabama and the surrounding communities. In fulfilling our mission the CME Office provided 544 hours of instruction to 5227 physicians and 2216 non-physician participants in ongoing departmental activities and four one-time events.

The Continuing Medical Education Office is up for reaccreditation in January 2003. At that time, the Accreditation Council for Continuing Medical Education (ACCME) will conduct a "site visit" via teleconference. As part of the preparation for this site visit, the Office has been conducting a self-study for the last several months. This self-study is in its final stages of review and will be mailed to the ACCME in October. Results of the January site visit will be available in March 2003.
USA College of Medicine  
Office of Admissions  
Annual Report for 2001-2002

**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 19, 2002, opened June 1st and closed November 15, 2001.

For the Class of 2006, six hundred ninety-four (694) applications were received. Three hundred forty-three (343) applications were received from Alabama residents, three hundred thirty-four (334) from out of state U.S. citizens, and seventeen (17) from citizens of foreign countries. The Admissions Committee interviewed a total of one hundred ninety-four (194) applicants of which one hundred seventy-four (174) were residents of Alabama. Of the applicants interviewed, one hundred twenty-nine (129) were offered admission to fill a class of sixty-four (64). Sixty (60) of the matriculating students are Alabama residents. Eleven (11) offers of admission were made to Black applicants; six (6) will matriculate. Six (6) of the matriculating black students are BEAR (Biomedical Enrichment and Recruitment) students. This year, our records indicate a drop in the total number of applications received (694 in '02 vs. 743 in '01); there was a slight increase in Alabama applicants (343 in '02 vs 336 in '01). Table I gives comparative data since 1999.

The 2002 entering class has an exceptional "mix" of academically well-qualified students who graduated from twenty-eight (28) colleges and universities. However, 42% 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 12 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. The following publications were produced and distributed by the Office of Admissions:
The Admissions Policies and Procedure Manual
The College of Medicine Bulletin

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

7. 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 194 candidates; each interviewee was interviewed by three committee members, giving a total of 582 interviews.

8. The following Admissions Committee subcommittees were active in 2001-02:
   
   Alternate List Subcommittee
   Early Acceptance Program Subcommittee
   Scholarship 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 curriculum 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 2001, the EAP Subcommittee interviewed 40 applicants for the program and offered 15 acceptances.
### University of South Alabama College of Medicine Admissions Report

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<th>2001</th>
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*Includes one Advanced Standing Student
SUMMER RESEARCH PROGRAM FOR MEDICAL STUDENTS

The Twenty-Ninth Annual Medical Student Research Day was held on Friday, August 9, 2002. 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 rapidly-progressing research areas. The program aims to bridge the relation between scientific discoveries and their application in clinical medicine.

Dr. Norbert Voelkel, Professor of Medicine and Hart Family Professor of Emphysema Research in the Division of Pulmonary Sciences and Critical Care Medicine at the University of Colorado Health Sciences Center, was the keynote speaker. Dr. Voelkel's research interests include the pathogenesis and treatment of severe pulmonary hypertension, with emphasis on mechanisms of lung vascular remodeling, the role of apoptosis in emphysema, cell-cell interactions in intravascular inflammation, and the hypertensive endothelial cell phenotype. Dr. Voelkel's seminar was entitled "Severe Pulmonary Hypertension Between Angiogenesis and Cancer."

Dr. James Stubbs chaired the Student Research Advisory Committee. Other committee members included: Drs. Betsy Bennett, Michael Cohen, Richard Honkanen, Johnson Haynes, Randall Powell, Troy Stevens, Samuel Strada, and David Wood. Administrative support for the program was provided by Ms. Dusty D. Layton, of the Office of the Senior Associate Dean.

An awards luncheon was held on August 29, 2002, to acknowledge the Clyde G. Huggins Medical Student Research Awards for best oral and poster presentations. Mr. Jarrod Adkison, sophomore medical student, was the recipient for best poster presentation and Ms. Misti Wilson, freshman medical student, received the award for best oral presentation.

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

"Construction and Characterization of Mutant and Chimeric Protein Phosphatase 2A Molecules." Michael Sprague, sophomore medical student. Sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology.

"Mapping of T Cell Epitopes of a 37 kDA Oncofetal Antigen/Immature Laminin Receptor." Apurva Trivedi, sophomore medical student. Sponsored by Joseph Coggin, Ph.D., Department of Microbiology and Immunology.
"Role of GATA Protein in Stat3-Mediated Regulation of the Fetal Globin Gene." **Mukesh Barker**, freshman medical student. Sponsored by Betty Pace, M.D., Departments of Cell Biology and Neuroscience and Pediatrics and Solomon Ofori-Acquah, Ph.D., Department of Cell Biology and Neuroscience.


"Analysis of Echocardiographic and Electrocardiographic Values for Predicting Heart Failure in Aged Female Squirrel Monkeys (Saimiri sp.)." **Kai Rodning**, sophomore medical student. Sponsored by Alan Brady, D.V.M., Department of Comparative Medicine and Clara Massey, M.D., Department of Medicine.

**POSTER PRESENTATIONS**

"Mechanogated Calcium Entry in Lung Endothelial Cells." **Jarrod Adkison**, sophomore medical student. Sponsored by James Parker, Ph.D., Department of Physiology.

"Study of Brain ApoE In Situ, the Connection Between Cholesterolemia and β-Amyloid Accumulation in Alzheimer Disease." **Trey Gunter**, freshman medical student. Sponsored by Miguel Pappolla, M.D., Department of Pathology.

"Molecular Cloning of the Genes Encoding Serine Deaminase From *Helicobacter pylori*." **Arpita Patel**, sophomore medical student. Sponsored by David McGee, Ph.D., Department of Microbiology and Immunology.

"Purification of BRP-39 From Mouse Mammary Glands." **Hoangnam Huynh**, sophomore medical student. Sponsored by Nathan Aronson, Ph.D., Department of Biochemistry and Molecular Biology.

"Validation of the FOCUS as a Psychometric Instrument for the Assessment of Depression." **Christie Beck**, freshman medical student. Sponsored by James Croake, Ph.D., Department of Psychiatry.

"Interaction of Pulmonary Artery and Microvascular Endothelial Cells In Co-Culture: The Signaling Role of Ephrin β-2 and Eph β-4." **Matthew McIntyre**, freshman medical student. Sponsored by Troy Stevens, Ph.D., Department of Pharmacology.
2001-2002
GRADUATE PROGRAM IN BASIC MEDICAL SCIENCES

Administration -- Basic Medical Sciences

Dr. Mary I. Townsley, Professor in the Department of Physiology, was elected by BMS Graduate Faculty to serve as Director of the Program for the next three years. She assumed the position August 1, 2001.

Recruitment Activities

A recruitment team was formed in November; Dr. Danna Zimmer was named as Chair of the committee. Members met to discuss various strategies for getting new promotional publications to establish and establishing faculty contacts at other institutions across the southeastern region.

Other recruitment methods include the establishment of the Basic Medical Sciences Interdisciplinary Graduate Program website, available through the Biomedical Library server. The location for the website is http://southmed.usouthal.edu/com/bmsphd. A newly revised application to the program, curriculum, extensive information regarding the new core program for first year students, and faculty and their research interests are available at this site. In addition, the Graduate Office placed several ads in the The Vanguard. Also, through coordinated efforts with the University's Office of Public Relations, increased awareness of the program was gained through several news articles appearing in The Mobile Register. These articles highlighted our graduate students' accomplishments throughout the year.

The Basic Medical Sciences Ph.D. Graduate Office coordinated and hosted numerous Interview Days in January, March, May, and June. Hosting several smaller, more intimate events gave selected applicants to the program an opportunity to learn more about the new Interdisciplinary Core Program, and enabled us to better acquaint the students with the graduate school, in general. Smaller gatherings also allowed the Admissions Committee and other BMS faculty to better assess each student's motivation and potential to succeed in graduate school.

As in previous years, several graduate program faculty, students, and staff participated in the USARC Annual Research Forum, highlighting research being conducted across the Basic Medical Science areas.
Admission Statistics for the 2002-2003 Academic Year

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<td>22</td>
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<tr>
<td>Applicants matriculating</td>
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<td>11</td>
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</tbody>
</table>

Average UG GPA of Students Matriculating 2002-2003: 3.43 (N = 10)

Average GRE of Students Matriculating 2002-2003: 1838 (N = 11)

New Programs/Policies/Requirements

A Basic Medical Sciences Graduate Faculty Retreat was held on campus in the College of Medicine Conference Room on October 10, 2002. Agenda items pertaining to curriculum, governance, results of a student survey, and recruitment matters of the graduate program were discussed.

CURRICULUM - The interdisciplinary core curriculum has been implemented this Fall. During Fall Semester, matriculants will complete the first semester of a two-semester Fundamentals of Biomedical Sciences course (IDL 580), a Research Methods course (IDL 577), and Interdisciplinary Literature Reports (IDL 576). Students will also participate in six “Meet the Discipline Days” during the semester and the Distinguished Scientist Seminars held on Thursday afternoons. In addition to completing three five-week lab rotations, Literature Reports, and Dr. Turren’s Ethics course, students will also complete the second Fundamentals course (IDL 581) in the Spring Semester. It is anticipated that students will select a department for advanced study at the end of the first-year core program. Departments are reviewing their individual offerings and work is in progress on development of advanced interdisciplinary courses, as well as completing revisions on specific advanced departmental offerings.

In anticipation of a change in the scoring of the Graduate Record Exam in October 2002, a review of past GRE scores has been completed in the Graduate Office. The Executive Committee will review this information and designate a scoring range for incoming students for the 2003 Class.

GOVERNANCE - In August, 2002, Dr. Glenn Wilson, Chair of the Directorship and Governance Committee submitted a listing of faculty to serve, replacing members rotating off the Executive, Curriculum, and SPEC Committees. Dr. Wilson’s committee also named a slate of nominations for the member-at-large position on the Executive Committee and Secretary and Parliamentarian for the Graduate Faculty. At the Graduate Faculty meeting held on August 12, 2002, Dr. Jonathon Scammell was elected to serve a two-year term on the Executive Committee, and Drs. Hester and Alides were elected to serve as Secretary and Parliamentarian, respectively.
NEWSLETTER - In an effort to keep everyone informed on varying facets of the graduate program, the Graduate Office began distributing a semi-monthly newsletter in September 2001. Topics highlighted in the publication include seminars, funding opportunities, awards, guest speakers, and forums. The newsletter is distributed to graduate students and faculty via email and subsequently posted on the web site. Minutes from the Executive Committee Meetings are also available on the web site.

RECRUITMENT/FUNDING - The website was restructured to further facilitate access to program materials. Potential applicants can now find a variety of items on-line, including the application and evaluation forms and information about faculty and their research. New recruitment posters, brochures, CDs, and videos, all highlighting the graduate program, have been developed and will be distributed by mail.

STIPENDS - In November 2001, the Executive Committee approved a motion to increase annual stipends for all BMS Graduate Students to $18,000, effective August 1, 2002. Effective Fall 2002, the Graduate Office is paying stipends and providing insurance coverage for the first eighteen months of study for all students entering the program. As students select a department for advanced study, departments will assume these costs for students entering their respective disciplines.

BMSSO-Basic Medical Sciences Student Organization

The Basic Medical Sciences Student Organization sponsored another BMSSO T-shirt design and sale and hosted several social events including a fall picnic for BMS faculty and students at Lavetta Park on Old Shell Road and a Christmas luncheon. Members also participated in several community activities, including the American Heart Association Walk in September and collecting donations for the Mobile Aids Support Services in December. Students also participated in a workshop, presented by Sylvia Friedl on mentoring, and held a cookout in April to raise funds for their team to donate to the American Cancer Society Relay-for-Life later that month. The organization held a cookout and evening of volleyball in August 2002, to welcome the class of graduate students entering the Interdisciplinary Core Fall Semester, 2002.

Graduates

Five students officially graduated upon completion of all requirements for the Ph.D. degree during September 2001-August 2002. They are:

Natalie Renee’ Norwood Bauer

Dissertation Title: "Regulation of Endothelial Cell Store-Operated Calcium Entry and Barrier Integrity by Myosin Light Chain Kinase"

Major Professor: Troy Stevens, Ph.D.

Department: Pharmacology

Current Position: Post Doctoral Fellow; Univ. of Colorado Health Science Center
Heather Allison Foley

DISSEPTION TITLE: "The Role of Stat-3 In /x Globin Gene Repression by Interleukin-6"
MAJOR PROFESSOR: Betty Pace, M.D., Ph.D.
DEPARTMENT: Cell Biology and Neuroscience
CURRENT POSITION: Not currently pursuing a career in research

John Kenneth Hawkins

DISSEPTION TITLE: "Regulation of GTP Cyclohydrolase Activity"
MAJOR PROFESSOR: June E. Ayling, Ph.D.
DEPARTMENT: Pharmacology
CURRENT POSITION: U.S. Army, Georgia

Cathy Condo Webb

DISSEPTION TITLE: "Effect of DksA on Cell Physiology and Expression of the Alternate Sigma Factor, 8 in Salmonella enterica serovar Typhimurium"
MAJOR PROFESSOR: John Foster, Ph.D.
DEPARTMENT: Microbiology and Immunology
CURRENT POSITION: Not currently pursuing a career in research

Kathryn Ault Ziel

DISSEPTION TITLE: "Oxidant-Dependent Modifications in Hypoxic Pulmonary Artery Endothelial Cells (PAECs): Potential Role In Transcription Facor Binding and Gene Expression"
MAJOR PROFESSOR: Mark N. Gillespie, Ph.D.
DEPARTMENT: Pharmacology
CURRENT POSITION: Post Doctoral Fellow; Department of Pharmacology, University of South Alabama

To date, 130 students have received Ph.D. degrees in Basic Medical Sciences. The breakdown of graduates by department is as follows:

- Biochemistry and Molecular Biology: 25
- Microbiology and Immunology: 33
- Pharmacology: 30
- Physiology: 19
- Cell Biology and Neuroscience: 23