University of South Alabama College of Medicine

Teaching

Research

Service

Annual Report
October 1, 2000 through September 30, 2001
ANNUAL REPORT
UNIVERSITY OF SOUTH ALABAMA
COLLEGE OF MEDICINE

October 1, 2000 through September 30, 2001
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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
2000-2001
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


V. NATIONAL PROFESSIONAL RECOGNITION.

Biochemistry faculty participated on a number of national committees this past year. Dr. S. Barik was a reviewer for several journals: *BioTechniques, Journal of Virology,* and *Biochemical Pharmacology.* Dr. Jane Funkhouser served as an Ad hoc reviewer for the NIH Lung Biology & Pathology Study Section; Dr. James Gubatz reviewed postdoctoral fellowship grants for the National Institutes of Health, Division of Research Grants Study Section, and was a Member of the National Scientific Council of the American Federation for Aging Research. Dr. Richard Honkanen is a member of the American Society for Biochemistry and Molecular Biology, the American Association for the Advancement of Science, the Association for Research in Vision and Ophthalmology, the International Society on Toxicology, the American Association for Cancer Research, and the American Heart Association. Dr. Aronson is President-elect of the Association of Medical and Graduate Departments of Biochemistry and served as a representative on the National Caucus of Basic Biomedical Science Chairs.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

Biochemistry Graduate students achieved excellent progress in the 2000-2001 academic year. Mark Swingle (R. Honkanen’s laboratory) was awarded a 3-year predoctoral fellowship from NASA. Lauren Amable (Central Florida), and Sonya Urnaway (West Florida) are our new biochemistry Ph.D. graduate students for Fall 2001.

Two medical students completed summer research projects in Biochemistry. David Cherry a second-year student made an oral presentation "Caspase-Dependent Apoptosis of Gum Epithelial Cells Infected with *Porphyromonas gingivalis,*” based on work with Dr. S. Barik; Suzanne Hicks, a first-year student, spoke on "Aberrant Mitotic Spindle Formation in A549 Cells Treated With Cantharidin and Okadaic Acid," from studies done with Dr. R. Honkanen. Sean W. Dobson defended his Ph.D. dissertation in March 2001. His title was “Characterization of the Protein Phosphatases of Plasmodium Falciparum With Emphasis on PFPPJ and the Inhibitor Protein ARP.” Dr. Dobson did his studies under the direction of Dr. Sailen Barik. Dr. Vira Bitko, a Postdoctoral Fellow in Dr. Sailen Bark's laboratory, received a three-year National Research Service Award from NIH entitled “Role of ER Stress in RNA Virus-Induced Apoptosis.”

The Biochemistry Department spent a significant effort trying to recruit a new faculty member in the area of cancer research. Currently, the position remains open. A number of Biochemistry faculty are involved in patents and other aspects of university/industry collaborations. Dr. Honkanen continues work on antisense RNA drugs directed at regulating protein phosphatases with ISIS Pharmaceuticals in Carlsbad, California. Dr. Honkanen is also working with NASA on several projects involving protein phosphatases. Several of Dr. Honkanen’s patents have now been licensed for development by pharmaceutical companies.
Educational efforts and accomplishments of the Biochemistry faculty were recognized by the College of Medicine graduating class of 2000. Dr. Roger Lane and Dr. Richard Honkanen were honored for excellence in teaching at the Senior Honors Convocation. The Class of 2001 awarded Dr. Roger Lane with the Best Basic Science Professor award. The Medical Alumni Association presented Dr. Roger Lane with the Distinguished Service Award at the annual Medical Alumni Retreat held at Orange Beach this past spring.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF CELL BIOLOGY AND NEUROSCIENCE

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

L. Aldes. Neural Mechanisms Involved in Tongue Control. University of Texas Health Science Center, Department of Neurobiology and Anatomy, Houston, TX (2001).

L. Aldes. The Neurobiology of Tongue Control. Medical College of Virginia, Department of Anatomy and Cell Biology, Richmond, VA (2001).


A.L. Gard. Evidence of a Role for Cardiotrophin-1 in CNS Gliogenesis. 5th Gordon Conf. on Myelin, II Ciocco-Barga, Italy (2000).


S.R. Goodman. Oxidative Stress and Sickle Cell Disease. (1) State University of New York, Upstate Medical University, College of Medicine, Cell and Developmental Biology Seminar Presentation, Syracuse, NY; (2) University of Medicine and Dentistry of New Jersey, School of Osteopathic Medicine, Stratford, NJ (2000); (3) University of Texas at Dallas, Department of Cell and Molecular Biology, Dallas, TX; and (4) U.T. Southwestern Medical School, Dallas, TX (2001).

S.R. Goodman. Erythrocyte Spectrin Is An E2 Ubiquitin Conjugating Enzyme. University of Medicine and Dentistry of New Jersey, New Jersey Medical School, Department of Pathology and Laboratory Medicine, Newark, NJ (2000).


S.P. LeDoux. Mitochondrial DNA Repair. (1) University of Alabama at Birmingham, Birmingham, AL (2000); (2) City of Hope, Duarte, CA; and (3) Center for Research on Environmental Toxicology, Portland, OR (2001).


S.P. LeDoux. DNA Repair in CNS Cells. NIH-Chile Research Cooperation Workshop in Health and Environment, Santiago, Chile (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Ron Balczon is a Study Section Member for the Florida Biomedical Research Program, American Cancer Society, and is on the Editorial Board of Frontiers in Bioscience.

Dr. Mohan Bhatnagar is on the Editorial Board of Biology of Reproduction.

Dr. Phillip Fields is on the Editorial Advisory Board for Trends in Reproductive Biology. Dr. Fields is a Member of the Membership Committee for the Society for the Study of Reproduction.

Dr. Tony Gard is a Regular Member on the NIH Study Section: Molecular, Cellular and Developmental Neuroscience 6 (MCDN-6). Dr. Gard was an Ad Hoc Reviewer on Pilot Project Applications for the National Multiple Sclerosis Society.

Dr. Steven Goodman is on the Editorial Board of Brain Research Bulletin, Cellular & Molecular Biology Letters. He was an Ad Hoc Committee Member for the Bay Health Plan Special Needs, a Member of the State of Alabama Sickle Cell Oversight and Regulatory Committee, and a Member of the Arizona Disease Control Research Commission: National Peer Review Panel. Dr. Goodman is an Elected Representative to CAS of the AAMC by the AACBNC, an Elected Representative to the National Biomedical Caucus by the AACBNC, an Invited Member of the Joint Steering Committee for Public Policy and an Invited Member of the Congressional Liaison Committee.
Dr. Stephen Kayes is a Member of the Editorial Board for the Journal of Parasitology where he serves as the Associate Editor for Helminth Immunology, a Member of the Business Advisory Committee, and a Member of the Bylaws Revision Committee for the American Society of Parasitologists. Dr. Kayes is the Chair of the Resolutions Committee for the Southeastern Society of Parasitologists. He is a reviewer for the Sequella Foundation (TB Vaccine Development Grants) and the Legislative Alert Committee for the American Society of Parasitologists.

Dr. Susan LeDoux served as a Member of the EPA Review Panel; “Complex Chemical Mixtures,” a Member of the NIH Special Emphasis Panel: Review of NRSA Applications, a Member of the NIH Special Emphasis Panel: Review RO1s for Dr. Yoke Kow and Veronica Maher, and a Member of the Site Visit Team; P01 ES11163, Dr. Paul Doetsch PI, Emory University. Dr. LeDoux was an Ad hoc Reviewer for the NIH Radiation Study Section and was a Member of the NIEHS Site Visit team for the State University of New York Stony Brook NIEHS Center.

Dr. Betty Pace is on the Clinical Research Center Site Visit Committee for Boston University and the Clinical Research Center Site Visit Committee for Mount Sinai Hospital. Dr. Pace is on the Minority Research Training Review Committee Special Emphasis Panel for the Heart, Lung and Blood Institute, the Data and Safety Monitoring Board for the Heart, Lung and Blood Institute, the Hip Core Trial/Acute Chest Syndrome Panel for the Heart, Lung and Blood Institute, and the NIDDK Review Branch as a Subcommittee D Member.

Dr. Glenn Wilson is the Associate Editor for Clinical Science, London. He served on the National Institute of Environmental Health Sciences - Site Visit Team Reviewing the Toxicology Center Core Grant at the University of Miami, the National Institute on Aging - Special Emphasis Panel Reviewing Molecular and Neural Mechanisms Underlying the Effects of Caloric Restriction on Health and Longevity, the National Institute of Environmental Health Sciences - Site Visit Team for a Program Project at Vanderbilt University, the National Institute of Environmental Health Sciences - Site Visit Team for the Toxicology Center Core Grant at the University of North Carolina, and the National Institute of Environmental Health Sciences - Site Visit Team (chair) for the Toxicology Center Core Grant at the University of Texas.

Dr. Warren Zimmer is on the Peer Review Committee for the American Heart Association and he is a Member of the Joint Steering Committee for Public Policy.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

In the past year two students have received their Ph.D. from the Department. Dr. Rebecca Fillmore completed a thesis entitled “Factors Involved in the Regulated Production of Smooth Muscle Gamma Actin mRNA.” This work was completed under the sponsorship of Dr. Warren Zimmer. Dr. Fillmore has joined the laboratory of Dr. John Oakes in the Department of Microbiology here at the University of South Alabama as a Research Associate. Dr. Allison Dobson completed a thesis entitled “Targeting 8-Oxoguanine DNA Glycosylase to Mitochondria Enhances DNA Repair and Cellular Resistance to Oxidative Stress.” This work was completed under the sponsorship of Dr. Glenn Wilson. Dr. Dobson has joined the laboratory of Dr. Michael Aschner at Wake Forest University for her postdoctoral training.

The Department experienced some personnel changes in the last year. In April there were two administrative changes: Dr. Glenn Wilson was appointed Interim Chair; and Dr. Susan LeDoux accepted the position of Vice Chair. In July, Dr. Gan Wang resigned to accept a position in the Department of Pharmacology at Wayne State University; and, in August, Dr. Steven Goodman resigned to accept a position in the Department of Cell and Molecular Biology at the University of Texas at Dallas.

The Department hosted visits by two distinguished scientists. Dr. John H. Byrne, from the University of Texas, presented a seminar in October; and Dr. Stuart Linn, from the University of California at Berkeley, gave a seminar in February.
2000 - 2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF COMPARATIVE MEDICINE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


**A.G. Brady.** Aged Squirrel Monkeys and Heart Failure: An Echocardiograph Survey. AALAS, San Diego, and Stanford University, Palo Alto, CA (2000).


**L.E. Williams.** Captive Squirrel Monkey Demographics and Database Records System. Squirrel Monkey Field Study Workshop, Cochabamba, Bolivia (2001).
V. NATIONAL PROFESSIONAL RECOGNITION

Christian R. Abee, D.V.M., Chair of the Department, became The Charles M. Baugh Professor of Comparative Medicine (March 30, 2000); he is also a member of the Council on Accreditation of the Association for Assessment and Accreditation of Laboratory Animal Care International, 2000-2003; member, Comparative Medicine Group of the Association of American Veterinary Medical Colleges; and served as Special Guest Editor of the National Research Council’s ILAR Journal, Volume 41, 2000.

Alan G. Brady, D.V.M., Associate Professor, is a member of the Board of Directors, 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, 1992-present; secretary, Association of Primate Veterinarians; member of the Board of Directors, and editor of the APV Newsletter, 1997-present; and a consultant on animal care to the U.S. Air Force, Keesler Air Force Base, MS, 2001-present.

Susan V. Gibson, D.V.M., Associate Professor, is chair of the Committee on Continuing Education, American College of Laboratory Animal Medicine, 1999-2002.

Lawrence E. Williams, Ph.D., Associate Professor, is a member of the Membership and Finance Committee and the Education Committee, American Society of Primatologists, 1994-2001.

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 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. This is a major program for the department, which has resulted in the development of one of the largest neotropical primate breeding colonies 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.

In 2001, a large colony of owl monkeys (Aotus spp.) was acquired. This colony is supported by the National Institute of Allergy and Infectious Disease for the production of owl monkeys for malarial research and for research into the basic biology, reproduction, and diseases of the owl monkey. Our previous experience with this primate 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 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 four full-time, one joint, and three adjunct 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 (April 2001) in the Department of Comparative Medicine. Dr. Dan H. Lochner, Adjunct Assistant Professor, served on a part-time basis in the departmental pathology laboratory through March 2001. Dr. Julio Ruiz, Director of the Argentine Primate Center (CAPRIM), serves as Adjunct Associate Professor. Full time faculty in the Department of Comparative Medicine include one professor and three associate professors. In addition, there are 27 administrative, technical, and research staff.
2000-2001
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.


III. BOOKS PUBLISHED.

   None.

IV. PRESENTATIONS.


V. NATIONAL PROFESSIONAL RECOGNITION.

   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); and Chairman, Bylaws Committee, American College of Emergency Physicians (Alabama Chapter).
F.S. Pettyjohn served in the following positions: Chairman, Department of Emergency Medicine; Cardiology Consultant to the Federal Aviation Administration; Board of Director and Chancellor, International Academy of Aviation and Space Medicine; Board of Director, American College of Emergency Physicians (Alabama Chapter); and President of Medical Staff, University of South Alabama Medical Center.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Department of Emergency Medicine continues to emphasize excellence in Clinical Emergency Medicine, the 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 technology. 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 acquired. Recruiting of additional faculty is essential to maintaining clinical capabilities, enhancing the teaching program, and 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 2001. 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., as a candidate for Best Clinical Instructor.

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., has developed a teaching syllabus for the fourth-year medical student elective, which continues to receive recognition by the medical students.

RECRUITING PROGRESS: The recruiting program continues to be active. The goal is to obtain Emergency Medicine Residency Trained and Board Certified Emergency Medicine Physicians to meet the Emergency Medicine Residency requirements. Marion C. Berg, M.D., is the Emergency Medicine Residency Trained Physician serving as the primary contact individual for the Department. Additional staff physicians providing a broad-base for education include J. Randall Adair, D.O., Residency Trained and Board Certified in Internal Medicine, W. Scott McNair, M.D., Residency Trained and Board Certificate in Internal Medicine and Pediatrics.
An additional clinical staff physician, Antonio L. Pacheco, M.D., joined the Department of Emergency Medicine and provides clinical Emergency Medicine at the U.S.A. Knollwood Park Hospital Emergency Department.

**FACULTY DEVELOPMENT:** Joint Faculty activities continue with the Departments of Pediatrics, Internal Medicine, and Radiology. Dr. Sammy Saleeb provides overall emergency medicine radiology educational programs for the Department. Dr. W. Scott McNair provides educational programs for joint Emergency Medicine and Pediatrics. Enhanced internet capabilities in the departmental offices provide the faculty with updated technologic capabilities to develop educational programs. Photographic capabilities have been developed with the acquisition of improved scanner capability, digital camera, and LCD projector. The digital camera and 35mm still camera are used as the primary photographic capability. The graphic and audiovisual equipment is available to all faculty and to housestaff during their Emergency Medicine rotation. Dr. Sternberg serves as the primary faculty contact for the development of these educational opportunities.

**CLINICAL FACILITIES:** During the 2000-2001 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 also responsible for the clinical emergency care delivery at the Emergency Department at the 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., and Terry N. Rivers, 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’s and Women’s Hospital. W. Scott McNair, M.D., provides Attending coverage for the Children's Evaluation Center. The close coordination between the University of South Alabama Medical Center, Level I Trauma Center, and the Children’s and Women’s Evaluation Center has been maintained to provide rapid response for appropriate patient care and transfer requests. Coordination is also maintained between the Department of Obstetrics/Gynecology at the U.S.A. Children’s and Women’s Hospital and the U.S.A. Medical Center Emergency Department to provide rapid treatment...
capabilities for adult patients presenting to Children's and Women's Hospital with acute medical or surgical conditions.

**RESEARCH:** The Division of Clinical Research entered its sixth 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 direction of Frank S. Pettyjohn, M.D., with Afifa Halim Kirolos, M.D. All members of the Attending Faculty support the ongoing clinical research studies. The current projects cover a wide range of clinical areas, ranging from comparative antibiotic trials, comparative anti-hypertensive agent trials, dyslipidemic treatment trials, community acquired pneumonia treatment trials, and cardiovascular therapy trials. This effort provides a unique research opportunity and clinical support for the Department of Emergency Medicine.
2000-2001
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.

N. B. Clark and G. McLeod. Feedback in an E-mail Medical Distance Education Activity: A Qualitative Analysis. Acad. Med. (2001).


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

R. A. Perkins served as a member of the Study Section for Primary Care Residency Training, Health Resources and Services Administration. He also served as a member of the AHRQ panel on Practice Based Research Networks.

VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRAMS

Shannon S. Morgan, M.D. joined the faculty in July after having completed her residency at USA. Her research interests lie in women's health, evidence-based medicine, and graduate education. Dr. Morgan will also actively manage a transition to a competency based third-year curriculum in the Department's residency program.

Ron L. Lee, M.D. was recruited from private practice in Orange Beach to coordinate primary care sports medicine/orthopedics programs. He also holds a faculty appointment in the Department of Orthopaedic Surgery.

Amy L. Herndon, Pharm.D., began an adjunct appointment in August after having completed her residency training in Pharmacy Practice at the Regional Medical Center in Memphis, Tennessee. She will continue to coordinate inpatient and outpatient clinical experiences for Auburn University pharmacy students. She succeeds Dr. Deborah Kennedy, who returned to her home town of West Palm Beach.

Dr. Mary Katherine Barfield and Dr. Melinda Harper left the faculty to follow spouses to other states, and Dr. Chris Kerby chose to go into private practice in Tennessee. Ms. Nancy Clark was recruited to the College of Medicine at Florida State University to develop medical informatics programs.

Dr. E. Lee Taylor assumed responsibility for the administration of the department's undergraduate programs with the departure of Dr. Barfield.
Dr. Allen Perkins sought and received partial funding for a nascent Practice Based Research Network (DeltaNet) and has begun working on projects involving USA Family practice and other practices within the network around functional assessment tools and changing office practice through the use of group visits. This project is in collaboration with established researchers in the Dartmouth COOP Network. He is also the Principal Investigator of a three-year, Health Resources and Services Administration graduate training grant to develop a competency based third-year family medicine curriculum.

Dr. Allen Perkins and Dr. Shannon Morgan are establishing a rural OB tract for Family Medicine residents through the Southeast Alabama AHEC which will begin in October, 2001. The training will take place partially in Ozark, Alabama.

The program continues to be successful in the NRMP, filling five of 6 positions. A resident who is returning from an extended leave of absence for family reasons will fill the sixth position.

A new course (Doctoring I and II) was developed from the Medical Practice and Society and Medical Ethics course. This course includes patient care exposure, beginning in the first year. Dr Allen Perkins is the course director.

Dr. Mary Katherine Barfield, Dr. Allen Perkins, and Dr. Thomasina Sharpe were recognized by the College of Medicine students as Distinguished Faculty Members at its Honors Convocation.

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, increased clinical responsibility for Student Health, and undertaking a Sports Medicine practice on campus.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF INTERNAL MEDICINE

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.


IV. PRESENTATIONS.


M.A. Alpert. Etiologies and Diagnosis of Congestive Heart Failure. Heart Failure 2001, Loyola University, Maywood, IL (2001).

M.A. Alpert. (1) Cardiac Morphology and Performance in End-Stage Renal Disease; and (2) The Diabetic Heart. 21st Annu. Conf., Dialysis, New Orleans, LA (2001).

M.A. Alpert. Recognition and Current Management of Congestive Heart Failure. Columbus Regional Medical Center Annual Day of Cardiology, Columbus, GA (2001).


J.A. DiPalma. Irritable Bowel Syndrome. (1) Noon Conference, Louisiana State University, New Orleans, LA; (2) Oschner Faculty and Fellows, New Orleans, LA; and (3) Medical Grand Rounds, University of Louisiana, Lafayette, LA (2000).


K.M. Ramsey. The Use of Molecular Biology Techniques to Solve Infectious Disease Outbreaks. Western Carolina University, Cullowhee, NC (2000).


B.A. Warner. Dual Defects Require Dual Treatment. (1) George State Corrections Physicians, Atlanta, GA; (2) Houma Family Care, Houma, LA (2000); (3) Fairhope Physicians Group, Fairhope, AL; (4) Biloxi VA Hospital Physicians, Biloxi, MS; (5) Glucovance Education Meeting, Montgomery, AL; and (6) Eglin Air Force Base Physicians, Eglin, FL (2001).


B.A. Warner. Type 2 DM. Brewton Primary Physicians Group, Brewton, AL (2000).


B.A. Warner. ACTOS. (1) Jackson Primary Physicians, Jackson, AL (2000); (2) Atmore Medical Clinic Physicians, Atmore, AL; (3) Primary Care Physicians, Camden, AL; (4) Family Practice Physicians, Birmingham, AL; and (5) ACTOS National Speakers Bureau Update Meeting, Key Biscayne, FL (2001).


B.A. Warner. ACTOS Insulin Resistance: Its Role in Type 2 Diabetes. (1) Pensacola Physicians Group, Pensacola, FL; and (2) Physicians in Evergreen and Brewton, Brewton, AL (2000).


B.A. Warner. Insulin Analogues. (1) Oneonta Family Physicians, Oneonta, AL; (2) Evergreen and Pell City Physicians, Pell City, AL; and (3) Primary Care/Internal Medicine Physicians, Charlotte, NC (2001).

B.A. Warner. PPG. (1) Pascagoula Primary Care Physicians Group, Pascagoula, MS, and (2) Alabama Society of Physicians Assistant Program, Mobile, AL (2001).

V. NATIONAL PROFESSIONAL RECOGNITION

R.C. Allison served on Editorial Review Boards for the following journals: *The American Journal of Medical Science, American Journal of Medicine,* and *Southern Medical Journal.*

M.A. Alpert served as Associate Editor of the *American Journal of the Medical Sciences,* as Assistant Editor of the *Southern Medical Journal* and as a member of the editorial boards of the *American Journal of Cardiology,* Angiology and the *Journal of Heart Failure.* He was appointed to the editorial board of the *Journal of Heart Disease.* He was invited to serve as a member of the Working Group on the Pathophysiology of Obesity-Associated Cardiovascular Diseases, sponsored by the NHLBI and NIDDK, and served as Guest Editor of a symposium entitled “Cardiovascular and Pulmonary Complications of Obesity,” published by the *American Journal of the Medical Sciences.* He moderated a session entitled “The Heart in End-Stage Renal Disease” at the 21st Annual Conference on Dialysis and moderated a session entitled “Dilated Cardiomyopathies—Various Etiologies” at the 22nd International Congress on Heart Disease and served on the Scientific Advisory Board for this meeting. Dr. Alpert also served as Chairman of the Cardiology Section of the Southern Medical Association and as a member of the Planning Committee for the 95th Annual Scientific Sessions of the Southern Medical Association.

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.); Secretary: Alabama State Thoracic Society; Board Member: Tri-state Respiratory Conferences; Program Planner: For USA College of Medicine ATS Tri-State Thoracic Society Meeting.

M.V. Cohen served on the editorial boards of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine. He continued to serve as a member of NIH Study Section on Clinical and Integrative Cardiovascular Physiology and Pathophysiology.
R.M. Culpepper served as Assistant Editor -- *Southern Medical Journal*, *Referee-Kidney International*, *American Journal of Medicine*, and *American Journal of Physiology*. He also served as President, National Kidney Foundation of Alabama and National Trustee of the National Kidney Foundation.

J.A. DiPalma serves as the Course Director of the Annual Post-graduate Course for the American College of Gastroenterology. He serves on the Board of Trustees for the American College of Gastroenterology and has been nominated as a Treasurer. He chairs the ACG Publication Committee. He is a member of the ACG Task Force on Clinical Practice. He is on the Expert Advisory Panel on Gastrointestinal Drugs of the United States Pharmacopeia. Dr. DiPalma was appointed to the editorial board of the *Southern Medical Journal*, is the Series Editor on *Diagnostic Physiology Testing for Practical Gastroenterology*, on the Editorial Board for *Gastro Online* and is Editor-in-Chief of and *Online Journal of Digestive Health*.

J.G. Hardin served in the following capacities: Reviewer for *American Journal of Medicine, Arthritis & Rheumatism, JAMA, Journal of Musculoskeletal Medicine, New England Journal of Medicine*, and *Annals of Internal Medicine*.


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*.

C.V. Massey served as a District Counselor for the Alabama Chapter of the American College of Cardiology and was elected to Strathmore's Who's Who in the World.

C. McCombs is expending 65% effort designing and administering a new grants program to support research on a vaccine for tuberculosis in accordance with Sequella Global Tuberculosis Foundation's contract with the University of South Alabama.

J.P. Michalski is a reviewer for the *Journal of Investigative Dermatology, Southern Medical Journal* and *Journal of Medical Genetics*. He is also on the Medical Advisory Board of the American Behcet's Association.

K. Ramsey was elected to the Council of the Southern Society for Clinical Investigation to serve a three-year term (2000-2003). Dr. Ramsey completed his term as Chairperson of the Task Force on Volunteer and Staff Activities for the Society for Healthcare Epidemiology and was elected to a two-year term as Secretary (2002-2003).

J.A. Vande Waa completed his term as Chairperson of the Mobile AIDS Consortium.
B.A. Warner served on Editorial Review Boards for the following journals: *Endocrine Practice, Metabolism Clinical & Experimental*.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

Faculty development efforts are continuing. Drs. Nadeem Husain, Jean Glossa, and Jennifer Messner joined the Division of Medical Education; Dr. Reynaldo Rodriguez joined the Division of Gastroenterology; Dr. Tracy Neal joined the Division of Cardiology; and Dr. Syed Raza joined the Division of Pulmonary Medicine. Faculty departures this past year included Drs. Stacey Wing, T. Michael Fan, Roy Martino, Marcel Conrad, and Martin Alpert.

The educational program for the Department of Medicine is stable and strong. The senior elective in Cardiology won the award as the Best Senior Elective and Dr. Stephen Greenberg won the award as the Best Attending. Nineteen faculty members in the department were honored with the Red Sash Award at graduation ceremonies. Dr. John Bass was selected by the senior class to give the address at the Honors Convocation. The housestaff program had an excellent match and completely filled with competitive candidates.

The financial situation of the department is the best that it has been in a number of years. Faculty practice plan is on a break-even basis and we are in an excellent position to rebuild the department in areas that have become understaffed over the past several years.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF MEDICAL GENETICS

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. W. Wertelecki was re-elected Secretary-Treasurer of the World Alliance for the Prevention of Birth Defects. He was awarded a Certificate of Appreciation from the Regional Perinatal Advisory Committee. Dr. W. Wertelecki was awarded the Franklin Smith Award for Distinguished Service, from the State of Alabama.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The COM II Medical Genetics Course expanded its emphasis on case-based learning and introduced a web-based assignment. In short, every student was asked to explore and analyze our International Birth Defects Information Systems (IBIS) site, developed as one component of the USAID-sponsored program to provide an informational resource to Ukraine. This exercise required each student to engage in several hours of web explorations, focused on a specific domain of human developmental pathology.

Clinical training was provided to pediatric residents during elective rotations, and to an international fellow. Increasing demands for clinical services called for an expansion of the frequency of outreach clinics held in Dothan, Alabama.
The Cytogenetic Laboratories were CLIA and CAP certified. The scope of FISH and neoplasia DNA cytogenetic probes were expanded to meet growing demands. New collaborative investigations of primate chromosomes were initiated by Dr. C. Tuck-Muller.

The Medical DNA Diagnosis Laboratory directed by Dr. T.J. Chen was CLIA and CAP certified. Parentage testing capabilities are completed and this service is now offered.

The Alabama Birth Defects (BD) Surveillance and Prevention program received funding from the CDC to expand its scope to include prevention of NTD. Additional "genetic" nurses were trained and deployed in Dothan, Alabama, and Montgomery, Alabama. Voluntary agreements with hospitals were signed and population-based BD surveillance has expanded to Montgomery, Alabama, and Dothan, Alabama, regions. The BD program is a "de facto" partner of the Alabama Department of Rehabilitation Services (ADRS) since the outreach Genetic BD Surveillance Nurses are housed in ADRS facilities. Integrating BD surveillance with care and prevention is a national health priority and, to this end, we received a Special Project of Regional and National Significance (SPRANS) grant, which led to the development of strategies now being integrated into the BD program.

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 and ADRS. Also, Dr. W. Wertelecki was awarded a Certificate of Appreciation from the Regional Perinatal Advisor Committee for community services.

The USAID funding for the Ukrainian-USA Birth Defects Program was renewed. The territory impacted by the program was doubled and an "Omni" Information-Resource Center was established in Kyiv, Ukraine. The program was admitted as a member of the International Birth Defects Monitoring Systems Clearinghouse. Program results were also reported at the International Congress of Human Genetics. The Ukrainian Academy of Medicine and the Mohyla Universities became partners for two core prevention implementations, namely the 1st National Congress on Bioethics (held September 19, 2001), and to hold a World Health Organization/Europe (WHO/EURO) BD prevention meeting dedicated to Eastern Europe (to take place in late November 2001).
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.W. Foster. Acid Stress Responses of *Salmonella* and *E. coli*: Survival Mechanisms, Regulation and Implications for Pathogenesis. (1) Pusan National University, Pusan, Korea; (2) Hannam University, Taejon, Korea; and (3) International Meeting of Microbiological Society of Korea, Seoul (2001).


D.O. Wood. *Rickettsia prowazekii*: Cytoplasmic Survivor. (1) University of Maryland School of Medicine, Baltimore, MD (2000); and (2) Wyeth/Ayerst Research, Pearl River, NY (2001).


V. NATIONAL PROFESSIONAL RECOGNITION.

Dr. Adel L. Barsoum served as Reviewer for Cellular and Molecular Biology Letters.

Dr. Joseph H. Coggin was named to the Editorial Board of Modern Aspects of Immunobiology.

Dr. John W. Foster was the featured speaker at the International Meeting of Microbiological Society of Korea this past year. He served on the NIH Study Section, BM1 (ad hoc), and he continues to serve as Reviewer for *Journal of Bacteriology, Molecular Microbiology*, United States Department of Agriculture and *Infection and Immunity*. 
Dr. Robert N. Lausch continued to serve as Special Reviewer, Visual Science A Study Section, National Eye Institute. He also serves on the Member Panel of Primary Reviewers for the *Journal of Immunology*.

Dr. David J. McGee was an ad hoc reviewer on the NIH Study Section, BM1.

Dr. John E. Oakes continued on the Member Panel of Primary Reviewers for the *Journal of Immunology*.

Dr. Herbert H. Winkler continued to serve on the Editorial Board of *Infection and Immunity*, and the Council Policy Committee of the American Society for Microbiology. Dr. Winkler was recognized for his service to the American Society for Microbiology at the General Membership Meeting in May of this year.

Dr. David O. Wood again served as Reviewer for the *American Journal of Tropical Medicine and Hygiene*.

Dr. Winkler and Dr. Wood were invited speakers at the American Society for Rickettsiology-Bartonella as an Emerging Pathogen Group at a Joint Conference in Big Sky, Montana. Dr. Winkler and Dr. Wood also were Conveners for Session V: Genetics/Genomics at the meeting.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Department of Microbiology and Immunology is pleased to welcome Dr. David McGee to our faculty. The department began recruiting efforts to find a new Assistant Professor shortly before last year’s Christmas holidays and continued until late Spring. We had many quality candidates to choose from and are very pleased with the success of our efforts. We also gained Dr. McGee’s wife, Dr. Traci Testerman, who is supervising our Medical Microbiology laboratory. Welcome, Dr. Testerman. The department is also pleased to welcome Sharon Stanford and Karla McInnis to our graduate program. Graduate student, Cathy Condo Webb, successfully defended her dissertation entitled “Effect of DksA on Cell Physiology and Expression of the Alternate Sigma Factor, σs, in *Salmonella enterica* Serovar Typhimurium” in August. Dr. David O. Wood, Professor, was honored as Distinguished University Professor at a reception this past April. Among our usual visitors this past year, Dr. Foster was host to Dr. Liné Tompseon, a visiting Postdoc. Dr. Tompseon is from Denmark.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF NEUROLOGY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


J.G. Boggs. Efficacy of AEDs, Epilepsy in the Multiply Handicapped, AED Interaction, Other Uses for AEDs, Women and Epilepsy. Epilepsy Minifellowship Lectures: Bowman-Gray University, Winston-Salem, NC (2000).


R. Zweifler. Advances in Stroke Prevention. (1) Medical University of South Carolina, Charleston, SC (2001); and (2) Family Medicine Dept., Keesler AFB, MS (2000).


V. NATIONAL PROFESSIONAL RECOGNITION.

B.A. Bassam served in the following capacities: Member, AMA Diagnostic and Therapeutic Technology Assessment (DATTA) Subcommittee and Reference Panel; Liaison and Proctor, American Association of Electrodiagnostic Medicine (AAEM) Training Program Self-Assessment Examination (1994-present); and Committee Member, American Association of Electrodiagnostic Medicine (AAEM) Training Program (1999-present).

J.G. Boggs served in the following capacities: Editorial Board, Epilepsy Currents; Board of Directors, Atlantic Institute for Clinical Neurophysiology; Epilepsy and Employment Task Force (AES); and Neuropharmacology Task Force (AAN Practice Committee).

W.J. Hamilton served in the following capacities: Advisory Board, Greater Gulf Coast Epilepsy Chapter; and Educational Advisor, Alabama Osteopathic Medical Association.

P. Maertens served in the following capacities: Member of the Editorial Board of the Journal of Neuroimaging; and Committee member of the Examination Committee of the Society of Neuroimaging (question design and evaluation for the neurosonology exam).

J. Mendizabal served as an invited member of the National Sub-Committee for Headache Education in U.S. Medical Schools (American Headache Society).

W.J. Nowack served in the following capacities: Board of Directors, ECNS; Editorial Board, Clinical EEG; and Editorial Board, Journal of Computer Science and Information Management.
R. Zweifler served in the following capacities: Editor, eMedicine Neurology; Fellow, American Stroke Association Stroke Council; Member of the Member Reviewer Network, American Academy of Neurology; National Register's Who's Who in Executives & Professionals; National Registry of Who's Who, Life Member; Royal Society of Medicine, Fellow; Strathmore's Who's Who, Lifetime Member; Stroke Task Force member, American Stroke Association Southeast Affiliate; Alabama Stroke Education Consortium, member, Executive Committee, and Chair of Executive Committee; Alabama Quality Assurance Foundation Stroke/Atrial Fibrillation Study Group, American Heart Association; Member, Alabama Advocacy Committee; and Chair, Operation Stroke (Mobile Region).

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Department of Neurology, has completed one full year in its new office operations at the USA Knollwood Campus. The transition has led to a 10% increase in patients evaluated and has definitely improved our patient mix with regards to insurance reimbursement. Initial difficulties have been corrected, and the clinic operations have markedly improved. In addition, the Department of Neurology has begun admitting patients to USA Knollwood, and the admission numbers are gradually increasing. In conjunction, Dr. Malapira has improved his admissions to the USA Long-Term Care Facility, which assists our department in placing patients. Two of our physicians have left our practice: Dr. Nowack has joined the staff at the University of Kansas at Kansas City; and Dr. Mendizabal has entered private practice in Ocean Springs, Mississippi. This has caused our new patients' being distributed to a smaller number of faculty.

There has been an increase in outside funding, primarily through pharmaceutical sources, for headache and epilepsy. Drs. Malapira and Rothrock, have continued to manage the headache clinic, employing the above research funding. Dr. Malapira, has also begun a Botox treatment program and has already treated several patients, which should enhance his projected charges. Dr. Rothrock has also been appointed the Associate Dean for Clinical Research, which is a 20% commitment. In addition, Dr. Rothrock has also been appointed the editor of the Headache Journal and has established an office within our facility. Dr. Bassam continues to perform electromyographic and nerve conduction studies, which is a significant source of revenue. Dr. Boggs, although absent for pregnancy, continues to develop new research protocol for pharmaceutical studies in the treatment of epilepsy. She is complimenting her research by the development of a 24-hour inpatient epilepsy monitoring unit at USAKP, which is now booked in advance. In conjunction, Drs. Boggs and Quindlen have increased their patient numbers of those receiving a vagal nerve stimulator for refractory epilepsy. This novel approach seems to have a niche for some refractory patients. The monitoring of these complex patients is done by Renay Drinkard, a nurse practitioner. Dr. Richard Zweifler, Director of the USA Stroke Center, continues to maintain a prolific record in collaborative and independent clinical research. He also has gained national recognition for his research in stroke and has several ongoing studies in acute stroke treatment and stroke prevention. Dr. Zweifler is assisted by Dr. Malapira and a fellow, Dr. Asim Mahmood. Dr. Hamilton continues to be
the Director of the medical student training program and has been praised for his efforts; Dr. Hamilton has received the red sash from the senior medical students for many years. In addition, Dr. Hamilton is in the planning stages of a multiple sclerosis clinic and, hopefully, will receive outside funding through pharmaceutical companies.

The major thrust for our department is to upgrade our pediatric neurology coverage, as this has become an overwhelming burden, which cannot be satisfactorily covered by Dr. Maertens. Recruitment and/or local assistance, are both being explored.

Our residency training program continues to entice more qualified applicants. Dr. Boggs remains the director of the residency training program, and has organized well, lectures on the neurosciences and clinical neurological applications. Hopefully, our scores on the residency neurology in-service examination will reflect this expanding educational exposure. We are still hampered by not having two PGY 1 positions, but a solution for this is being explored. Overall, the Department of Neurology has expanded, although we need to recruit a faculty member for epilepsy, and possibly for Pediatric neurology. In conclusion, our department has considerable diversification, increased research activities and funding, and excellence in teaching and neurological care.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF NEUROSURGERY

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.
    None.

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 Women's and Children's Hospital with mostly shunt problems, pediatric spinal problems and pediatric head injury. Dr. Eric Weber has now performed several stereotactic ablative procedures for Parkinson's Disease with excellent success and plans to continue this program along with investigation of stereotactic implantation of stimulating electrodes in the thalamus and subthalamus structures of movement disorders.

Dr. Eugene Quindlen, along with Dr. Janes Boggs in Neurology, has successfully initiated a Vagal Nerve Stimulation program for epilepsy. This is a new procedure which has produced significant improvements for seizure patients who have been unresponsive to medications or require large amounts of medications. Further support of this program continues.

Dr. Kent Sauter has been improving the spinal cord injury service at the University Hospital. He has advanced our capability in providing spinal fixation and decompression for patients with difficult spinal problems.

The Department continues to participate in the graduate education in the College of Medicine, giving lectures in Neuroanatomy and Neuropathology, and Neurophysiology. The fourth-year clinical clerkship continues to be a main, ongoing teaching function.
2000-2001
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 57th Annual Meeting Post-Graduate Precongress Course on Ovulation Induction, Orlando FL, 2001. He also serves as Chairman of the Scientific Committee for the Southeast Regional Endocrine Meeting, 2001, and Chairman of the Scientific Committee The Middle East Fertility Society Chapter of the American Society for Reproductive Medicine in Toronto in 1999, San Diego, 2000, and Orlando, 2001. He is 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 and 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 Gynecology 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.

I.H. Thorneycroft serves as Board Examiner for the American Board of Obstetrics and Gynecology; on the Editorial Board of the journal, The Female Patient, and as reviewer for the American Journal of Obstetrics and Gynecology, Obstetrics and Gynecology, and Fertility and Sterility.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. Botros Rizk was chosen as one of the “Ten Best Teachers” for 2000-2001 by the College of Medicine Graduating Class. In April 2001, Dr. Lynne Groom stepped down as department Chairman, Dr. Rizk accepted the position as Interim Chairman for Clinical Affairs and Dr. Sherwood Lynn accepted the position of Interim Chairman for Resident Education. The Department welcomed with great delight the appointment of Dr. S. El-Asfouri as Assistant Professor of Obstetrics and Gynecology.
2000-2001
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.


V.  NATIONAL PROFESSIONAL RECOGNITION.


VI.  BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

The Department of Orthopaedic Surgery continued to experience a decline in faculty members during the 2000-2001 year.  In October, Dr. George Russell resigned to accept a position at the University of Mississippi Medical Center in Jackson.  Dr. Viorel Raducan resigned in December and relocated to a private practice group in Chicago, Illinois.  In April, 2001 Dr. Mark Perry also resigned to accept a position at the John Peter Smith Health Network Department of Orthopaedics in Fort Worth, Texas.  This reduced the total full-time faculty number to two physicians, Dr. Prasit Nimityongskul and Dr. Albert Pearsall.

Dr. Nimit continued to serve as Interim Chairman for the department from October 2000 to June 2001.  During this time, his leadership was instrumental in requesting assistance from members of the orthopaedic private practice physician groups in Mobile to help with call and attending in the operating room.  All of these physicians were alumni from the Orthopaedic Surgery Residency Training Program at the University of South Alabama.  This assistance was of great importance in aiding Dr. Nimit and Dr. Pearsall in the continued training requirements of the residency program.

The Orthopaedic Surgery Residency Program underwent a site visit conducted by the Accreditation Council for Graduate Medical Education Residency Review Committee.  The site visit was held on June 7, 2001 and required extensive preparation and participation from the entire department.

The most exciting event of the year was the recruitment of a new Chairman for the department.  Dr. Frederick N. Meyer joined the faculty on July 20, 2001, as Professor and Chairman.  Dr. Meyer specializes in hand surgery and was formerly a faculty member in this department from 1982 until 1990.  Under his leadership, the department expects to recruit additional faculty needed to fulfill the program requirements.  Residents are looking forward to Dr. Meyer's leadership in his role as Program Director of the Orthopaedic Surgery Residency Training Program.  Dr. Meyer's documented success and vast experience in teaching will serve to enhance our program and provide significant strength at every level of resident training.  As a resident advocate, Dr. Meyer has expressed his continuing dedication and commitment to the development of well-trained, competent, compassionate, and skilled practitioners of orthopaedic surgery.
On May 3, 2001, the department sponsored the 12th Annual Southeastern Orthopaedic Foot Club Meeting held at the Grand Hotel in Point Clear, Alabama. This meeting was held the day preceding the 50th Annual Meeting of the Alabama Orthopaedic Society. Faculty members from the department participated as podium presenters at each of these meetings, and Dr. Prasit Nimityongskul served on the Program Committee for the Alabama Orthopaedic Society Meeting. S. Terry Canale, MD, immediate past president of the American Academy of Orthopaedic Surgeons, presented the Lewis D. Anderson Memorial Lecture at the Alabama Orthopaedic Society Meeting. USA Department of Orthopaedic Surgery Resident Anthony L. Tropeano, M.D., earned honors for excellence at the meeting by being awarded Second Place in the prestigious Chestley L. Yelton Resident Essay Competition.

Dr. Albert Pearsall, Director of the Section of Sports Medicine, in conjunction with Dr. Ron Lee, Department of Family Practice, organized the first annual Primary Care Sports Medicine Workshop with Review Meeting held August 16-18, 2001 in Destin, FL. This CME meeting focused on educating primary care physicians in improved methods for observation, treatment, and management of sports related injuries. The meeting was very successful and plans are for it to become an annual departmental event.
2000 - 2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PATHOLOGY

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.A. Gardner. How to Think about the Prostate and Why. The C. Barrie Cook Annual Lecture, Inova Institute of Research and Education, Inova Fairfax Hospital, Fairfax, VA (2000).

W.A. Gardner. How to Think about the Prostate...Back to the Future. USA College of Medicine Alumni Reunion, Perdido, AL (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. William A. Gardner, Jr., Chair of the Department, serves as International Councilor and Vice President of the International Academy of Pathology as well as Chair of their Finance Committee. He is Alternate Delegate to the American Medical Association House of Delegates and continues to Chair the Scientific Advisory Board of the Armed Forces Institute of Pathology. This year, he was also appointed to the College of American Pathologists International Committee.

Dr. J. Allan Tucker, Vice Chair and Director of Anatomic Pathology, was elected to the executive council of the Association of Directors of Anatomic and Surgical Pathology, a national group of all such directors from academic centers in the United States. He also served as president-elect of the Society for Ultrastructural Pathology, an international society of diagnostic electron microscopists. He served on the editorial board of Southern Medical Journal and Human Pathology, and he was guest editor for the journal Ultrastructural Pathology. He was selected for the education committee of the United States and Canadian Academy of Pathology, and served on the abstract review board of that group. He also served on the electron microscopy ad hoc review group of the Veteran's Affairs Electron Microscopy Program, a national group that provides quality assurance feedback to the electron microscopy laboratories at VA hospitals.

Dr. James R. Stubbs, Vice Chair and Director of Clinical Laboratories, is an editorial Board member of Annals of Clinical Pathologists, Resident-In-Service Examination. He Chairs the Medical Advisory Board and is a member of the Board of Directors of the American Red Cross and also serves as a member of the Protection of Human Subjects of the Biomedical Research and Development Division of the American Red Cross. He is a member of the Area Committee on Hematology, National Committee for Clinical Laboratory Standards (NCCLS) as well as membership on the Test Committee for Blood Banking/Transfusion Medicine, of the American Board of Pathology.
Dr. Cynthia Donnell serves on the National Board of Medical Examiners, United States Medical Licensing Examination (USMLE) Step I Anatomy Committee.

Dr. Judy King is Secretary of the Pathology Section of the Southern Medical Association and Associate Councilor of the Alabama Section.

Dr. Elizabeth Manci serves as Director of the Centralized Pathology Unit for Sickle Cell Disease and is a member of the editorial boards of Pediatric Pathology and Archives of Pathology and Laboratory Medicine.

Dr. Miguel Pappolla received the American Association of Neuropathologists' Weil Award for the Best Paper on Experimental Neuropathology for the year 2000. He also received the Zenith Award from the Alzheimer's Association. In addition, Dr. Pappolla serves as Associate Editor of the Journal of Alzheimer's Disease and on the editorial board of Journal of Neuropathology and Experimental Neurology. He was appointed to the Award Committee for the American Association of Neuropathologists and to the NIH Study Section BDCN-3 Board of Consultants.

Dr. LeRoy Riddick was the only Forensic Scientist to serve on the Constitution Project Blue Ribbon Committee to evaluate the present fairness of the death penalty as currently imposed.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Dr. William A. Gardner, Professor and Chair of the Department, was named Assistant Vice President for Risk Administration in the Spring of this year. This year saw the departure of several pathology faculty members: Dr. Peter Bozner relocated to a private practice in Louisiana, Dr. Frank Bastian relocated to Tulane, and Dr. David Wells accepted a full-time position as a Senior Research Scientist with InDyne in Washington, DC. Dr. Wells will maintain a Clinical Professor appointment in the Department.

The Department has been actively involved in coalescence of the clinical laboratories at multiple sites. Dr. Prakash Rao has joined the Department as Associate Professor and Director of Histocompatibility Laboratories, and progress is being made in this important area.

Dr. Kimberley Patterson joined the Department as a Surgical Pathology Fellow in July of this year. Three of our departing residents began Fellowships at other institutions: Dr. Hafeez Diwan, Dermatopathology at UAB; Dr. Kenneth Snell, Forensic Pathology at Chapel Hill, NC; and Dr. Lee Chalker at Brown University in Rhode Island. Dr. Dan Roach, currently a PGYV Resident in the Department, will complete an on-line degree program in Medicine Informatics at the University of Oregon.
Dr. Marcelo Horenstein, Assistant Professor of Pathology and Director of Dermatopathology, is a participating investigator in the NIH grant to establish and maintain a national biomedical research resource. He is also working in conjunction with the faculty in the Department of Comparative Medicine and officials of the governments of Argentina and Bolivia to develop a multi-national squirrel monkey breeding and research resource for malaria vaccine development.

Drs. Gardner, Tucker, Stubbs, Donnell, Riddick, and Roveda were honored by the 2001 Graduating Class at the Honors Convocation, and the Department was recognized for the Best Basic Science Course by the Graduating Class.

Dr. Judy King is a co-investigator with Dr. Troy Stevens, in the Department of Pharmacology, on a grant entitled “Calcium Inhibition of cAMP in Lung Endothelial Permeability.”

The Rebecca Moring Lecture was delivered by Dr. Robert Birnbaum, author of a number of books on universities and management, including Management Fads in Higher Education.

As a contribution to Mobile’s “Greece 2000” celebration, the Department hosted a lecture by Dr. Irena Koprowska, the last living student of the Greek physician George Papanicolaou. Dr. Carole Boudreaux developed a companion exhibit demonstrating Papanicolaou’s continuing contributions to medicine.

The third Edmund Dowling lecture was delivered by Dr. Barbara Atkinson, Chair of the Department of Pathology at the University of Kansas and author of multiple texts on Cytopathology.

Dr. Renu Virmani, Chair of the Department of Cardiovascular Pathology at the Armed Forces Institute of Pathology, was visiting lecturer and conducted a workshop on cardiac pathology.
2000 - 2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PEDIATRICS

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full length published articles.


B. Articles in press.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED.

None.

IV. PRESENTATIONS.


S.K. Bhowmick. (1) Fluid and Electrolyte Therapy in PICU Patients; (2) Endocrine Emergencies; and (3) Diabities Insipidus and SIADH. Keesler Medical Center, Biloxi, MS (2001).


R.C. Boeth. USA Children's and Women's Hospital. Rotary Club, Mobile, AL (2000).


F.G. Eval. Exogenous Surfactants in the Management of RDS. (1) Sacred Heart Hospital, Pensacola, FL; (2) National Assoc. of Neonatal Nurses (NANN) 16th National Mtg., San Antonio, TX; and (3) LSU Neonatology Conf., Shreveport, LA (2000).

F.G. Eval. Radiology Studies Regarding Pneumothorax and Chest Tube Placement. (1) Atmore Community Hospital, Atmore, AL; (2) Monroe County Hospital, Monroeville, AL; and (3) DW McMillan Hospital: Physicians and Nurse Practitioners Seminar, Brewton, AL (2000).
F.G. Eval. What is the Optimal Time of Delivery for a Full-Term Infant. OBGYN Grand Rounds, Providence Hospital, Mobile, AL (2000).


S.A. Falkos. (1) Status Epilepticus; and (2) Status Asthmaticus. Pediatr. Outreach Ed. Prog.: (1) Singing River Hospital, Pascagoula, MS; and (2) Grove Hill Memorial Hospital, Grove Hill, AL (2001).

S.A. Falkos. (1) Pediatric Physical Exam; and (2) Endocrine Emergencies. Pediatr. Outreach Ed. Prog.: (1) South Baldwin Regional Medical Center, Foley, AL; and (2) Thomas Hospital, Fairhope, AL (2001).


P. Jansen. (1) Recognition of Pediatric Respiratory Failure and Shock; and (2) Snakebites. DW McMillan Hospital, Brewton, AL (2001).
P. Jansen. (1) Recognition of Pediatric Respiratory Failure and Shock; and (2) Drowning: (1) Thomas Hospital, Fairhope, AL; (2) Gulfport Memorial Hospital, Gulfport, MS; and (3) Monroe County Hospital, Monroeville, AL (2001).

P. Jansen. (1) Recognition of Pediatric Respiratory Failure and Shock; and (2) Asthma. Ocean Springs Hospital, Ocean Springs, MS (2001).


V. NATIONAL PROFESSIONAL RECOGNITION.

Samer Bhowmick served as a “reviewer at large” for Pediatrics. Judy Blair-Elortegui was awarded a Michigan State University Faculty Development Fellowship. She also received Board Certification in Internal Medicine and Pediatrics. Robert C. Boerth continues to serve as Associate Dean for Clinical Affairs. Michael Chicella received the 1) Outstanding Faculty Member Award, and 2) the Student Government Association Outstanding Teacher Award, Auburn University School of Pharmacy. He served as a consultant for AstraZeneca, and as a reviewer for the Journal of Pediatric Pharmacology and Therapeutics.

Benjamin Estrada continues to serve as the Pediatric Research in Office Settings (PROS) Coordinator for the State of Alabama. He also serves as the Series Editor for Medscape Pediatrics Journal Scan, which has summaries and commentaries on current pediatric literature published monthly on the Medscape Pediatrics Web Site at http://pediatrics.medscape.com/Home/Topics/pediatrics/pediatrics.html. Contributing authors from the Department of Pediatrics include: Drs. Michael Chicella, LaDonna Crews, Fabien Eval, David Gremse, Charles Hamm, Mary Mancan, Keith Peavy, Jorge Quiñones, Kenneth Rettig, Franklin Trimm, Yih-Ming Yang, and Michael Zayek.

Fabien Eval continues to serve on the Alabama Chapter, American Academy of Pediatrics Fetus and Newborn Committee. David Gremse was elected to membership in the Society for Pediatric Research. He is an Associate Member of the American Board of Pediatrics and serves on the PRCP Clinical Problems Committee. He is a member of the Credentials Committee and the Committee on Pediatric Gastroenterology for the American College of Gastroenterology. He is also 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. Dr. Gremse continues to serve as Chairman of the Committee on Academic Issues, Alabama Chapter, American Academy of Pediatrics.

Charles Hamm is a peer reviewer of the Journal of Maternal-Fetal Medicine. Mary Mancan was elected to the Alabama Department of Public Health Sexually Transmitted Disease Medical Advisory Council. She continues to serve 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 serves as a manuscript reviewer for Ambulatory Child Health and Ambulatory Pediatrics, and reviewed medical education abstracts for the National Pediatric Academic Societies meeting. Dr. Trimm is on the Editorial Board of the Ambulatory Pediatric Association’s Educational Guidelines for Residency Training in General Pediatrics. He also served as a member and module writer for Building Bright Futures Curriculum Workgroup.
Richard Whitehurst continues to serve 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 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; Alabama Newborn Screening Advisory Council; Director of the Hemoglobin Diagnosis Laboratory, Sickle Cell Association of America, Mobile Chapter; Principal Investigator, Pediatric Oncology Group; and as Medical Director of Camp RAP-A-HOPE.

VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS.

One new faculty member joined the full-time faculty of the Department of Pediatrics over the past year. Dr. Karen Crissinger joined the Division of Pediatric Gastroenterology and Nutrition as Professor of Pediatrics. This past year saw the departure of Dr. Renu Mathews (Pediatric Chief Resident).

The following Pediatric faculty members were recognized by the COM students as Distinguished Faculty Members at the 2001 Honors Convocation: Drs. Robert Boerth, Fabien Eyal, David Gremse, Mary Mancao, Kenneth Rettig, Franklin Trimm, Felicia Wilson, and Yih-Ming Yang.

The eighth recipient of the Hollis J. Wiseman Award for Excellence in Pediatrics was Audrey L. Hudson. Fourteen of the graduating medical students chose residencies in pediatrics (n=8) or combined medicine/pediatrics (n=6). Of the pediatric residents completing residency this year, two joined our clinical faculty at the USA Children's and Women's Hospital Children's Evaluation Center, two entered fellowship programs, and two entered private practice. All four of our medicine/pediatric residents completing residency entered private practice. As of July 1, 2001, six first-year residents entered the pediatric residency program, and two first-year residents 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 $387,000 to benefit the USA Children's and Women's Hospital.

The Department of Pediatrics was productive this past year in terms of scholarly output. There were 44 original articles published or in press and 22 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.


II. PUBLISHED ABSTRACTS.


III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


S. Schaffer. (1) Osmotic Preconditioning through Taurine Depletion and Treatment; (2) Protein Kinase C Distribution: Mechanism Underlying the Interaction Between Taurine and Angiotensin II, and (3) Adverse Effects of Taurine Depletion. 7th Int. Cong. Amino Acids, Vienna, Austria (2001).


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 Chair of the Nominating Committee and served on the Leadership Committee for the Pulmonary Circulation Assembly of the American Thoracic Society, served on four NIH Study Sections including Lung Biology and Pathology, NRSA Fellowship Awards, STTR/SBIR, and the Program Project Grant Review Committee; Dr. Jack Olson served as Merit Reviewer for the Department of Veteran Affairs. Dr. Jonathan Scammell is a member of the Biochemical Endocrinology Study Section, NIH. Dr. Stephen Schaffer served on the Review Board of the Southern Consortium, American Heart Association, International Advisory Committee for the 8th World Congress on Clinical Nutrition, Scientific Advisory Committee for ISHR World Congress, President of the 7th International Congress on Amino Acids and Proteins and Ad-Hoc member of NSBRI Study Section. Dr. Troy Stevens served as an Ad Hoc Member for Lung Biology and Pathology Study Section, NHLBI, Respiratory and Applied Physiology Study Section, Experimental Cardiovascular Sciences, Program Project Grants, NHLBI; and served on the Pulmonary Circulation Planning and Program Committees for the American Thoracic Society. Dr. Samuel Strada served as Representative for the Association for Medical School Pharmacology to the AAMC Council of Academic Societies.
The Department received additional funding through a number of research grant awards. Dr. June Ayling received a Grant-in-Aid from the American Heart Association, Southern Consortium for research on "Accumulation of Folic Acid Polyglutamates." Dr. Stephen Schaffer received a research grant from NIH on "Effect of Diabetes and Hypertension on Ischemic Injury."

VI. BRIEF SUMMARY OF DEPARTMENTAL ACTIVITIES AND PROGRESS

The Transgenic Animal/ES Cell Core Facility was established with Dr. Danna Zimmer serving as Co-Director. This facility provides assistance in the production of transgenic mouse models by either DNA microinjection or gene targeting in embryonic stem (ES) cells. In relation to the core facility, an intensive literature-driven course on the development and utilization of mouse models in biomedical research was developed and the department hosts a monthly seminar series.

The Department hosted visits by several distinguished scientists: Drs. Edward Block (Univ. of Florida), Jim Nelson (Univ. of Texas, San Antonio), Paul Schumaker (Univ. of Chicago), Linda Van Eldik (Northwestern Univ.), Steven Vogel (Med. Col. of Georgia).

The Department accepted four students for the Summer Undergraduate Research Fellowship (SURF) program. Ms. Lauren Cronenberg and Ms. Ashley Weimorts, from USA; Mr. Jan Kemnade, from Rice University; and Mr. John May, from Duke University, who was also awarded an Individual Fellowship by ASPET. Dr. Danna Zimmer sponsored his project which focused on the identification of target protein binding motifs on S100 proteins. The Department also hosted several undergraduate students participating in the University Committee for Undergraduate Research (UCUR) through the Department of Biomedical Sciences.

Dr. Troy Stevens sponsored Ms. Priya Bhat, Sophomore Medical Student, in the Medical Student Summer Research program. Ms. Bhat presented a poster entitled "Proliferation Rates Discriminate Between Lung Macro- and Microvascular Endothelial Cells: Relevance of Embryological Origin and Sensitivity to Disease."
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PHYSIOLOGY

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


M.V. Cohen. (1) Ischemic Preconditioning Causes Favorable Remodeling Resulting in Long-Term Improvement of Regional Cardiac Function; (2) AMP 579 at Reperfusion Limits Infarct Size in Crystalloid-Perfused Rabbit Hearts; and (3) Acetylcholine But Not Adenosine Triggers Cardiac Preconditioning by Causing Release of Free Radicals and Opening of Mitochondrial $K_{\text{ATP}}$ Channels. Am. Heart Assoc. Sci. Sessions, New Orleans, LA (2000).


V. NATIONAL PROFESSIONAL RECOGNITION.

AUBREY E. TAYLOR served in the following capacities: Secretary-Treasurer, Association for Chairmen of Departments of Physiology; American Heart Association -- Basic Science Committee, Long Range Planning Committee of Cardiopulmonary and Critical Care Council; AHA Representative to AAALAC. Vice-President, International Society of Pathophysiology; 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. Sponsor - Science by Mail. Awards: American Heart Association Southeast Affiliate Distinguished Honoree, University of South Alabama College of Medicine Medical Alumni Association Distinguished Service Award.


MICHAEL V. COHEN served in the following capacities: Editorial Board of Basic Research in Cardiology and Heart Disease: A Journal of Cardiovascular Medicine. 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: Co-organizer of "Adenosine Cardioprotection and Its Clinical Application," an international satellite symposium to the American Heart Association Scientific Sessions in Atlanta. He also served as Co-Manager of the website on the Communications Committee of the Council of Basic Cardiovascular Sciences for the American Heart Association. He is currently President-Elect of the International Society for Heart Research, an international organization with over 3,000 members worldwide. Member of the AMP579 Advisory Committee to Aventis Pharmaceutical Co. Member of the CVB Study Section of the National Institutes of Health. Editorial board member for Circulation Research, Journal of Cellular and Molecular Cardiology, and Basic Research in Cardiology.

JAMES C. PARKER served in the following capacities: Reviewer: Journal of Applied Physiology; American Review Respiratory Disease; Microvascular Research; American Journal of Physiology; Clinical Sciences, Anesthesiology; Journal of Physiology (London), and Banks and Sperelakis Essentials of Medical Physiology (textbook); 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.


VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

Drs. Z. Jiao, M. Krenz, T. Krieg, O. Oldenburg, Y. Shirasawa, Z. Xu, and H.-Y. Zhang 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. Adam Wanner, Chief, Div., Pulmonary and Critical Care Medicine, University of Miami Medical School, Miami, Florida.; Dr. Derek Yellon, Department of Academic & Clinical Cardiology, University College Hospital, London, England; Dr. Jeffrey J. Wine, Cystic Fibrosis Research Lab., Stanford University, Stanford, CA; Dr. Peter R. Kvetys, Senior Scientist, Victoria Hospital, London, Ontario, Canada; Dr. Dean Jones, Department of Biochemistry, Emory University, Atlanta, Georgia; Dr. Matthew B. Grisham, Professor of Physiology, LSU Health Sciences Center, Shreveport, Louisiana; Dr. William H. Benson, Director, US EPA, Gulf Breeze Marine Lab, Gulf Breeze, Florida; Dr. Peter A. Ward, Professor & Chairman, Department of Pathology, University of Michigan Medical School, Ann Arbor, Michigan.

Bradley Shirah (Class of 2004) presented his research paper at the National Medical Student Research Forum in Galveston, Texas. Bradley was sponsored by Dr. Aubrey E. Taylor.

Dr. Aubrey E. Taylor was our Course Director this year, and the faculty continued to use the concept of "Bottom Lines" in order to emphasize certain key elements in physiology that must be learned by the medical students.
2000-2001
SUMMARY OF SCHOLARLY ACTIVITIES
DEPARTMENT OF PSYCHIATRY

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS.

A. Full-length published articles.


B. Articles in Press.


II. ABSTRACTS.


III. BOOKS PUBLISHED


IV. PRESENTATIONS.


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Manuel L. Cepeda continued to serve on the Editorial Board of the Southern Medical Journal. He is 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 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.
2000-2001
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 PUBLISHED


IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION


B. G. Brogdon received the Distinguished Fellow Award and Medallion from the American Academy of Forensic Sciences, the first radiologist and 29th individual to be so honored in the 53-year history of the organization. He also received the medal of the International Skeletal Society at its annual meeting in Quebec City. Dr. Brogdon continues as Chair of the Convention Planning Committee of the ISS, member of the Board of the Forensic Sciences Foundation, Chair of the Continuing Education Committee of the Am. Acad. Of Forensic Sciences, Editorial Board Member of the Journal of Forensic Sciences and Surgical and Radiological Anatomy. He was appointed to the 50th Anniversary Committee of the Association of University Radiologists.

D.E. Herbert was 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. He was 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, and 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.”

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 Chairman of the Educational Exhibits Committee for the Radiological Society of North America and member of the Educational & Research Council for RSNA. He is an RSNA reviewer for Awards in Excellence in Research and Education and RSNA Grant Reviewer. Dr. Teplick reviewed over 2000 abstracts for the 2001 Annual RSNA Educational Exhibits. He is a Board Examiner for the American Board of Radiology. Dr. Teplick is the Alternate Councilor to the American College of Radiology - Alabama Academy of Radiology. Dr. Teplick will present three talks, one abstract, and one poster at the 2001 Annual meeting of the American College of Gastroenterology.
VI. BRIEF SUMMARY OF DEPARTMENT ACTIVITIES AND PROGRESS

The Department of Radiology is pleased to welcome one new faculty member: Ian G. Malcolm.

Marco Dellaria is now teaching and practicing in Dallas, Texas.

Richard L. Wesenberg was awarded the “Outstanding Instructor Award” for 2001 by the graduating residents.

Frank G. Greiner successfully completed the ABR certificate of added qualifications in Vascular and Interventional Radiology.

Maria S. Figarola successfully completed the CAQ in Pediatric Radiology.

Developments

1) Two additional rural hospitals were also brought on line for a total of six hospital sites. VA Biloxi and VA Mobile added to teleradiology service.

2) Eglin Air Force Base teleradiology contract awarded to USA Department of Radiology.

3) Ultrasound and Teleradiology areas at USA MC were completed with additional space and updated equipment. Angiography suite at Knollwood pending.

4) Recruiting for Chief of Interventional Radiology.

5) New linear accelerator for cancer treatment to be installed at CC/CB. Pet Ct proposal pending approval.

6) Advance CT unit (volume zoom) installed at C&W.

7) USA College of Medicine, Department of Radiology, has fostered the formation of a 501C3 not-for-profit corporation of seven rural hospitals to improve health in rural Alabama.

8) Continue to move toward a filmless Department with PACS and multiple workstation.
2000-2001
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

None.

IV. PRESENTATIONS


J.M. Cummings. (1) Long-Term Incidence of Erectile Dysfunction in Men With Significant Burn Injury; and (2) Experience With Penile Trauma. 79th Annu. Mtg., South Central Section, Am. Urol. Assoc., Montreal, Quebec (2000).


A. Luterman. Burn Treatment Course. USA, Department of Physical Therapy, Mobile, AL (2000).

A. Luterman. Advanced Wound Care Course. USA School of Physical Therapy, Mobile, AL (2000).

A. Luterman. Burn Treatment. (1) USA Physician Assistant School; (2) Occupational Therapy School (2000); and (3) Physical Therapy School (2001), Mobile, AL.


A. Luterman. Wound Care Essentials: "Wound Healing, Basic Building Blocks". Springhill Memorial Hospital, Symposium, Mobile, AL (2000).


A. Luterman. What's New in Burns? (1) St Joseph's Hospital Burn Center, Fort Wayne, IN; and (2) Baptist Hospital Trauma Symposium, Pensacola, FL (2000).

A. Luterman. Use of Artificial Skin in Burn Treatment. (1) Mercy Hospital Burn Center Grand Rounds, Pittsburgh, PA; and (2) Temple University Burn Center Grand Rounds, Philadelphia, PA (2000).

A. Luterman. The Future in Burn Care. Medical Education Council of Pensacola: District 1 EMS Council Inc: Sacred Heart Hospital; West Florida Regional Medical Center: Baptist Hospital: 11th Annu. Surviving Trauma Conf., Orange Beach, AL (2000).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. J.A. Boulillier was accorded membership in the Societie Internationale D'Urologie, the Sexual Medicine Society, and the Endourological Society.

Dr. B. J. Browne was a reviewer for the Jewish Hospital Foundation Research Grant Program.

Dr. J. M. Cummings was listed on the Life Member National Registry of Who's Who in America and served on the Governmental Affairs Committee of the Alabama Chapter of the American College of Surgeons. He was also a clinical reactor for Contemporary Urology and a reviewer for Urology and the Journal of Urology.

Dr. D. L. Dyess served as State Faculty and Course Director for the Advanced Trauma Life Support Course of the American College of Surgeons (ATLS) and as Instructor for the Advanced Burn Life Support (ABLS) Course of the American Burn Association at the Nebraska Burn Institute. In addition, she served as Editorial Consultant for the Southern Medical Journal. Dr. Dyess 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. Raymond R. Gacek presented the 2000 McNally Lecture at McGill University, the 2000 Milton M. Leigh Memorial Lecture at the University of South Alabama, and the 2001 Ogura Lecture of the Triological Society. He 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; and Laryngoscope.

Dr. Richard P. Gonzalez was a member of the Alabama State Committee on Trauma of the American College of Surgeons and a member of the following committees for the Eastern Association for the Surgery of Trauma: Publications Committee, Bylaws Committee, and the Practice Management Guidelines Committee. Dr. Gonzalez was also an instructor for Advanced Trauma Life Support (ATLS) Course.

Dr. Curtis N. Harris served as a consultant for the Alabama Foundation for Health Care, Alabama Workman's Compensation, and Children's Rehabilitation Services. He also conducted skin screenings at the Spring Hill College as part of a Nursing Health Fair.
Dr. A. Luterman was a Council Member, Alabama Chapter, American College of Surgeons, and served on the Government Affairs Committee for the Alabama Chapter of the American College of Surgeons. He served on the following committees of the American Burn Association: International Relationships Committee, Federal Issues Committee, as Chairman of the Regionalization Committee, and Advanced Burn Life Support Committee. He was also on the Geriatrics Curriculum Development for General Surgery Residents Task Force for the Association of Program Directors of Surgery. 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. He 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 member of the Content Development Meeting Involuntary Weight Loss in Patients with Burns or Chronic Non-Healing Wounds for Gardner-Caldwell Synemed and 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 was listed in the Directory of American Poets & Fiction Writers, Who’s Who in American Men and Women of Science (Jaques Catell Press), Who's Who in Science and Engineering (Marquis Who's Who Publication), Lexington Registry of Executive and Professionals, Who’s Who in the South and Southwest (Marquis Who’s Who Publication), Who's Who in America (Marquis Publication), Who’s Who in American Education (National Reference Institute), International Who’s Who in Poetry and Poet’s Encyclopaedia (International Biography Centre), International Who’s Who of Professionals, and Strathmore’s Who’s Who. He was cited in the Directory of Board Certified Medical Specialists, Philosopher’s Index (Bowling Green State University), the National Library of Poetry, International Society of Poets, and the International Society of Photographers. He served as a reviewer for the following medical journals: Chest; J Critical Illness; J. Histochem. Cytochem.; Review of Infectious Diseases; Southern Medical Journal; Clinical Anatomy; and Clinical Infectious Diseases. He also served on the Editorial Board of Gastro Online (Online Journal Digestive Health).
Dr. W. O. Thomas, III, served on the Editorial Board of the *Southern Medical Journal*.

Dr. B. F. Turk served as a member of the Southwestern Oncology Group.

Dr. A.B. Walker served as a member of the Society of Critical Care Medicine and the American Pediatric Surgical Association.

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

This past year the Department of Surgery entered a phase of major change and transformation. Dr. Arnold Luterman, Ripps-Meisler Professor of Surgery, resigned as Chairman to direct the new USA Regional Burn and Wound Care Center. A formal search committee began actively recruiting his successor. He remained as Interim Chairman of the Department and Program Director for the General Surgical Residency to minimize the impact on the clinical operations of the Department and on the educational and research programs. The Department also adjusted to the continuing changes occurring in health care delivery and to the changes at the Hospitals and Clinics of USA COM.

The Trauma and Surgical Critical Care Division, under the leadership of the Dr. Richard P. Gonzalez, continued to develop the Center for the Study of Rural Vehicular Trauma. Successful recruitment of the operational personnel took place and the initial steps in the development of the operational infrastructure was completed. Extensive interfacing with the Emergency Medical Services and Health Care providers in the surrounding rural counties was started. Successful funding for future years was also secured. This is a unique demonstration project and promises to be remarkably successful and valuable.

The Trauma and Critical Care Division also continued its vital educational and research missions. The education and training of medical students and residents from the USA system, Ochsner Clinic, and numerous other institutions occurs within this division. The unique quality and quantity of the clinical material, combined with a highly dedicated faculty, continued to create a superb educational and training experience.

The Solid Organ Transplantation Center continued its growth as a regional resource under the leadership of Dr. Barry J. Browne. Aside from increasing its clinical activity, the Center has reported some of the best outcome results in the country. This Center has also contributed greatly to the educational mission of this health care system and to the resources and services available to the Gulf Coast.
This year the new Regional Burn and Wound Care Center was opened at the USAMC. This remodeling and consolidation of clinical facilities into one area represents a culmination of 15 years of growth of the Burn and Wound Care services. This Center is a recognized resource to the region and is nationally known for its contributions to the field of burn and wound care. It now includes a Burn Intensive Care Unit, a 12 bed Step-Down Unit, Physical and Occupational Therapy Departments, and in-patient and out-patient Wound Care Clinics. University and civic leaders held a formal opening and dedication of the new center earlier this year.

The Department of Surgery completed plans for its new outpatient clinics. This new and enlarged facility will consolidate a number of services currently being provided at different sites, and increase dramatically the efficiency and quality of the services that can be provided.

The Educational Office of the Department of Surgery continued its excellent work. This office has added new services, and organizes and administers the numerous medical student and resident program educational opportunities that are provided by the Department of Surgery. This office is an integral part of the overall educational administrative infrastructure of the College of Medicine.

Research projects and funding continued to grow and develop within the Department of Surgery. The Office of Surgical Research continued its activities with numerous new projects that have culminated in presentations and publications in a variety of venues.

Despite a decreasing applicant pool for surgical education and training on a national level, that is being addressed by national organizations and societies, the quality of the applicants for surgical education and training at USA remained high. The Surgical Education Office and a highly dedicated and committed surgical faculty have instituted new changes required by the Residency Review Committee for Surgery, rapidly and effectively.

The Department of Surgery in its search for a new Chairman is well prepared to enter a new era with the promise of new faculty and new programs. This portends an exciting phase that the faculty and staff anticipate with excitement and enthusiasm.
I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.


B. Articles in press.

None.

II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED


IV. PRESENTATIONS


R.M. Benjamin. Chair of AHEC Grant Review. HRSA Grant Application Peer Review, Rockville, MD (2001).


R.M. Benjamin. Feature and Interview Format. CNN Feature for Black History Month (2001)


R.M. Benjamin, T.S. Trainor and D. Hicks, USA Telemedicine Presentation to Medical Staff. (1) Evergreen Medical Center, Evergreen, AL; and (2) DW McMillan Hospital, Brewton, AL (2001).

D. Hicks, Distance Learning: A Guide to Video Conferencing Training Workshop. (1) DW McMillan Hospital, Brewton, AL; (2) North Baldwin Hospital, Bay Minette, AL; (3) Thomas Hospital, Fairhope, AL; and (4) Thomasville Infirmary, Thomasville, AL (2001).


V. NATIONAL PROFESSIONAL RECOGNITION

Dr. Regina Benjamin, Associate Dean for Rural Health, received the following honors: Appointed by Governor Jeb Bush to Board of Trustees of Florida A&M University; Board of Trustees, Birmingham Southern University; President-Elect Medical Association State of AL; AL Board of Medical Examiners; State Committee of Public Health; and 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); Member 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; Member Advisory Committee, UAB School of Public Health; Member Rural Medical Scholars Program Third-Year Review Team; University of Alabama School of Medicine; Also 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 support for rural and/or isolated clinicians, patient access to health education, patient access to specialty care, and 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 five grant programs during FY2000: (1) Alabama AHEC Program – $1.3 million per year; [Health Resources and Services Administration (HRSA) Bureau of Health Professions with approval for three-year grant period]; (2) USA Telemedicine – $2.2 million [HRSA Office for the Advancement of Telehealth]; (3) Alabama Family Practice Rural Health Board – $10,000; (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]; (5) CME Video Library – $8,700 [Charles E. DeBakey Foundation to establish a CME Video Library to serve physicians and other health providers throughout the state.]
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 Southwest Alabama AHEC (SWAHEC) 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. Expansion is planned to the remaining northern Alabama counties within the next year.

During the 2000-2001 program year, the Alabama AHEC Program Office and Centers sponsored or provided the following: (1) 552 continuing education programs; (2) 12,665 providers participated in the programs; (3) 291 distance learning programs; (4) 263 community based training sites; (5) 453 medical students rotated in underserved sites; (6) 1211 health professions students rotated in underserved sites; and (7) 428 preceptors volunteered at 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; (4) Troy State University: School of Nursing; and (5) University of Mobile: School of Nursing.
USA Telemedicine

Telemedicine is the delivery and integration of medical education and specialty healthcare services to patients and clinicians in rural and medically underserved areas through the use of advanced telecommunications technology. USA Telemedicine serves three primary groups: underserved patients, health care professionals, and health profession students. The USA Telemedicine Program supports seven hub sites and ten spoke sites.

USA Telemedicine hub sites include: (1) USA Computer Services Center; (2) USA COM Medical Sciences Building; (3) USA Health Services Building; (4) USA Medical Center; (5) USA Children's and Women's Hospital; (6) USA Springhill Avenue Campus; and (7) USA Knollwood Park Hospital.

Spoke sites include: (1) Mobile County Health Department - Gorgas Clinic; (2) Mobile County Health Department - Calcedeaver Clinic; (3) Mostellar Medical Center; (4) Southwest Alabama Health Services; (5) Jackson Medical Center; (6) Evergreen Medical Center; (7) Thomas Hospital; (8) Thomasville Infirmary; (9) North Baldwin Hospital; and (10) DW McMillan Hospital.

USA Telemedicine distance learning accomplishments for FY2000 include: (1) 250 distance learning opportunities offered to healthcare professionals in spoke sites; (2) 5087 participants; (3) 130 programs conducted; (4) Continuation of the Ernest G. DeBakey CME Video Library. Videotapes have been provided to one hundred seventy six (176) healthcare professionals in rural areas across southwest Alabama; (5) Seven Patient Education workshops conducted; (6) Satellite capabilities added to the USA Telemedicine program providing educational opportunities from such programs as the Center for Disease Control (CDC) and the Alabama Department of Public Health (ADPH); (7) Ophthalmology Grand Rounds - Weekly residency training program collaborated with Oschner Clinic held through April 2001; and (8) One Holiday Diabetic Cooking School provided to patients in remote sites (2000).

USA Telemedicine clinical developments for FY2000 include: (1) linkage of Jackson Hospital, Evergreen Medical Center and Thomasville Hospital to the USA Telemedicine Program in the provision of Teleradiology; (2) implemented a bi-weekly HIV Telemedicine Clinic to the Mobile County Health Department Gorgas Clinic, Southwest Alabama Health Services, and USACOM Infectious Disease Division; (3) telemedicine consults for FY2001 include Teleradiology (17,483), HIV (31), Diabetes (7), Surgery (3), and Pediatrics (1).

Effective August 2001, the Telemedicine portion of the Office of Rural Health was out-sourced to an outside management consulting firm, Immediate Care.
2000-2001
SUMMARY OF ACTIVITIES
BIOMEDICAL LIBRARY
MEDIA PRODUCTION SERVICES

I. ARTICLES PUBLISHED IN BOOKS AND JOURNALS

A. Full-length published articles.

None.

B. Articles in press.


II. PUBLISHED ABSTRACTS

None.

III. BOOKS PUBLISHED

None.

IV. PRESENTATIONS


V. NATIONAL PROFESSIONAL RECOGNITION

Thomas Williams was appointed chair of the Bylaws Task Force for the Association of American Health Science Libraries (AAHSL), a section within AAMC where he continued his duties as COM representative to the Group on Information Resources (GIR). He was also appointed Chair of the Southern Chapter of MLA’s History Committee. Mr. Williams served as Chair of the Convention Committee for the 50th Annual Meeting of the Southern Chapter of the Medical Library Association, which was held here in Mobile in October of 2000. It was one of the most well attended meetings, second largest, since the first meeting in 1951. Tom assumed his duties as Representative to the MLA Section Council, an elected position.

Judy Burnham: Judy continues to excel in her professional activities and is developing a high level of national recognition in the profession. She has been sought out as an invited speaker, among other things. Judy is serving on the National Program Committee of the Medical Library Association for the 2003 Annual Meeting. She is serving on MLA’s Scholarship Jury, is the Nursing and Allied Health Resource Section (NAHRS) Awards Committee Chair, served on the 2000 Program Committee as well as the Conference Committee, the Nominating Committee for the Alabama Health Libraries Association, the Alabama Union List of Serials (AULS), and others. Judy participated as co-supervisor in a research study with the Physiology Department, Bibliographic review of the Scientific Literature. Judy was certified by the Association of Health Information Professionals as a distinguished member. She was also inducted into the national and prestigious scholastic fraternity, Alpha Sigma Lamda. Judy was one of two people from
the University who were put forward by the President as potential members of Leadership Mobile.

**Sarah (Sally) Murray** served as Audiovisual Services Coordinator for the SC/MLA Meeting held in Mobile in October of 2000 and on the SC/MLA Program Committee and Convention Committee for 2000. Sally served as Vice-Chair of the USA Faculty Senate for 2000-2001 and Secretary for 2001-2002.

**Jie Li** served as Chair of the Murray Gottlieb Prize Jury of MLA, and served as Newsletter editor of the MLA/International Cooperation Section (1998-99). Jie was President of the Alabama Health Library Association for 1998-99 and is a member of the Conference Committee for the 2000 Annual Meeting of the Southern Chapter of the Medical Library Association.

**Diane Williams** serves as editor for SYNAPSE, the Newsletter of the Alabama Health Association. She is a member of the AIHeLA Executive Committee. Diane taught the Bibliographic Access and Control course for the University of Alabama, Graduate School of Information Science.

**Geneva Staggs** served on the Conference Committee for the 2000 Annual Meeting of the Southern Chapter of the Medical Library Association, where she was Chair of the Registration Committee. She served on the Local Arrangements Committee for the Medical Library Association Annual Meeting in Orlando, Florida, May 2001. She also serves on the Network of Alabama Academic Libraries’ Continuing Education Committee. Ms. Staggs also served on the Nominating Committee for the Alabama Health Libraries Association. Geneva’s standing as a Distinguished Member of the Association of Health Information Professionals was renewed for another five years.

**Gentry Holbert** was appointed to the Editorial Board Content Editor for the Journal of Southern Academic & Special Librarianship. Gentry served as a member of the Alabama Library Association Public Relations Committee and the Conference Committee for the 2000 Annual Meeting of the Southern Chapter of the Medical Library Association.

**Everly Brown** was appointed Chair of the NAHRS Archives Committee and is an Executive Committee Member-at-Large of AIHeLA. She was the recipient of the Ebsco/MLA Annual Meeting Grant, which permitted her to attend the MLA Annual Meeting in Orlando.

**Ellen Sayed** served on the Conference Committee of the Southern Chapter of the Medical Library Association, is a member of the NAAL Resource Sharing Committee, Alabama Union List Coordinator 1999 to present, Board Member of AIHeLA, and is the editor of the Medical Library Association, International Cooperation Section Newsletter.
Justin Robertson is new to the BML this year. He served on the Conference Committee for the SC/MLA Annual Meeting in October of 2000, where he served as liaison for the exhibitors and the exhibit hall.

Jana Stay is also new to the BML this year, filling a technical services position that has been vacant for two years. She attended a NASIG workshop; Electronic Journals: The Wave of the Future (and how librarians can stay afloat!). Jana also attended the Southeast Voyager Users Group Meeting held at Auburn University.

VI. BRIEF SUMMARY OF ACTIVITIES AND PROGRESS

A highlight of the year was the opening of a state-of-the-art library at Children's and Women's hospital, which occurred (officially) in February. The facility with its five-unit microcomputer lab and high-tech conference room has quickly become an important asset to the medical students, nursing and allied health students, as well as faculty, staff, and clinicians. Usage continues to increase steadily and the conference room is getting a great deal of use. Recently, Rural Health installed telemedicine equipment in the room to facilitate information and patient-care. Many at the hospital and clinics depend on the CWEB microcomputer lab for accessing online databases, email, and the Internet.

2000-2001 highlights included additions of book and journal titles, online. The Biomedical Library has contracted with vendors and publishers to offer library users the latest in online full-text resources. Titles are available with a click from the BML Homepage at http://southmed.usouthal.edu/library/index.html. Two major publishers newly available online via the library's web page are Wiley Inter-science titles and Springer-Verlag titles. Usage of these products has increased dramatically as more of our users "discover" the online full text.

The College of Medicine Homepage received an average of over 400,000 hits-per-month, an astronomical increase from last year, when we averaged 25,000 per month. The increase was partly due to the large increase in electronic full-text. There were over 11,000 hits on the COM Clinical Trials database for the month of August alone. Usage of all online databases has increased this year, with users logging in from all over the country and the world. The Biomedical Library has truly established its place on the WWW. The month of August saw much activity from foreign countries: 1,835 from Canada, 814 Australia, 729 Germany, 1,586 Japan, many from the Dominican Republic, China, the Czech Republic, and many more, with 79 countries logging in over the last month. The BML and COM homepages received 2,545 hits from U.S. Military bases as well as hits from corporations such as Deer, DeGussa, Disney, Dupon, Fedex, Paine Webber, and many more.

The Library continued its proactive program to encourage input into collection development from faculty and clinicians from the Colleges of Medicine, Nursing, and Allied Health. Each is assigned a librarian who will keep them informed of new publications and electronic resources and to solicit their input and suggestions.
The Biomedical Library’s outreach network, SouthMed, is now comprised of 9 hospitals and 2 law firms. Services to many of these hospitals and others expanded during the year with funding generated by the Area Health Education Center (AHEC).

A grant in the amount of $3,000 was awarded to the Biomedical Library thanks to Judy Burnham. The grant was for exhibiting at state and regional association meetings. This gave us an opportunity to promote our SouthMed program.

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.

Many computers were ordered to replace old or worn-out units in the Microcomputer Lab and elsewhere in the library. Nearly all units have been upgraded to Windows98 software, many with Microsoft Office2000.

Two new faculty members joined the library staff. Justin Robertson was hired as Coordinator of Education to replace Gentry Holbert who left for a job in the private sector. (Gentry subsequently came back to the library profession and recently received a Fulbright Scholarship and will be leaving for a five-month stay in the Ukraine.) Justin comes to USA from Georgia Tech and also spent time at Emory School of Medicine Library prior to Georgia Tech. Jana Slay was hired to fill the vacancy in the Acquisitions Department.
MEDIA PRODUCTION SERVICES

The department began this reporting period with some critical staffing needs. These needs have been met with the addition of two new staff members: Joanne Brookfield (Audio Visual Production Specialist) and Joe Cunningham (Electronics Specialist). Both have been well-received by our customers and have expanded the department’s capabilities in their respective areas of expertise. Joanne has completely outfitted our video post-production suite with up-to-date digital hardware and software, including increased capabilities for producing video for computer or WEB applications. The department continues to receive more requests for these services. Thanks to Joanne’s efforts, income from video production has not dropped off during this reporting period. Joe has upgraded and/or installed sound systems in the COM Conference Room and the Richards Room. He has also put together a new portable sound system now available for check out, which will be sufficient for almost any audio needs. In addition, he has successfully supported several conferences hosted by COM departments.

As a result of proration, the progress and success the department has enjoyed during recent years has been temporarily curtailed. Planned upgrades for the Mastin facility have been put on hold. Requests for all services, except video production, were down. Income dropped 17% as compared to the same period last year. For the first time, the department began charging for the delivery and setup of AV equipment. Efforts to cut costs resulted in a reduction of expenditures of only 7%.

Since technology continues to evolve, it is essential for Media Production Services to keep pace with developments in order to provide necessary services to departments and individuals. It is hoped that MPS will continue to receive support for upgrades as the financial position of the University and COM improve. Joe and Joanne have demonstrated capabilities that will benefit Telemedicine efforts. Next year, the department will play a larger role in these activities. The nuts and bolts of our interactions have not been identified as of this writing, but certainly this relationship will increase the department’s overall value to the College of Medicine.
2000-2001
Summary of Activities
USA Comprehensive Sickle Cell Center

General Operations: As of August 1, 2001, Dr. Johnson Haynes, Jr., replaced Dr. Steven Goodman as Director of the USA Comprehensive Sickle Cell Center. The Sickle Cell Administrative Office and Research Laboratories are located on the second floor of the MSB. The Sickle Cell Center Administrative Offices are found in MSB 2015. The laboratories of Dr. Betty Pace, Dr. Johnson Haynes, and Dr. Mohan Bhatnagar are located in the second floor MSB expansion. The sickle cell Laboratory Core and office of the Children Youth Sickle Network are now located in the second floor expansion of MSB.

Research: We were well-represented at the 25th Annual Sickle Cell Program meeting in New York, NY, on April 17-19, 2001. Faculty, students, and staff who presented were: Dr. Johnson Haynes, Jr. (Zileuton: An Inhibitor of Activated Polymorphonuclear Cell Mediated Sickle Erythrocyte Retention in Lung and Promoter of Hemoglobin F Induction In vitro); Dr. Steven Goodman (Erythrocyte Spectrin Is an E2 Ubiquitin Conjugating Enzyme That Is Blocked in Sickle Cell); Dr. Solomon Ofori-Acquah (The Role of Antisense Globin Transcripts in Gene Therapy of Sickle Cell Disease); Heather Foley (Globin Gene Regulation by the JAK/STAT Signal Transduction Pathway); Dr. Mohan Bhatnagar (Neutrophil Chromosomal Domain in Sickle Cell Disease); Dr. Gan Wang (The D-Loop Length Requirement for Peptide Nucleic Acids Binding Indirect Transcriptions); and Ms. Betty Robinson (Southwest Alabama Children Youth Network: Telemedicine as a Model for Health Care Delivery).

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-Acquah, PI; Mechanisms of Fetal Hemoglobin Induction, Danna Zimmer, PI; and Acute Lung Injury in Sickle Cell Disease, Johnson Haynes, Jr., PI.

Adult Operations: The 2000-2001 academic year marks the close of the third year that the Adult Sickle Cell Clinic has operated as a subspecialty clinic. The primary objectives of this clinic are to (1) 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., and Ms. Ardie Pack-Mabien, Nurse Practitioner. Over the last academic year, 17 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 are 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 continues
to support the pediatric outpatient clinical operations and serves as the liaison 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 continues to be the development and participation of the adult hematology services in caring for adults requiring chronic transfusion therapy and deferal chelation.

Clinical investigational projects currently underway at the University of South Alabama Comprehensive Sickle Cell Center inclusive are (1) N-acetylcysteine, a Potential Therapeutic Agent in the Management of Vaso-occlusive Crisis; (2) Zileuton, a Potential Therapeutic Agent in the Management of Vaso-occlusive Crisis and the Acute Chest Syndrome; and (3) The Role of Cytokines in Acute Chest Syndrome in Sickle Cell Patients.

Pediatric Programs: Dr. Betty Pace serves 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 over the last year has been the establishment of a Children Youth Sickle Network (CYSN) to serve clients in the eight counties we serve in rural Alabama. Funding has been secured through the Robert Wood Foundation with matching funds from the Dean’s office; satellite clinics will be initiated this fall. A telemedicine approach will be used to accomplish this unique program in the College of Medicine. Delivering some of the medical services in satellite clinics will aid in solving the problem of high patient census in the weekly 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. Clinic protocols were developed for the competitive renewal of the Comprehensive Sickle Cell Center grant application. During the upcoming year we plan to develop two new clinical protocols to secure salary support for the hematology/oncology faculty and research nurse. Other areas of clinical care will be examined to improve the transition from pediatric to adult services.

Psycho-Social Research Division: The PSRD directed by Rosie Peterson, serves as the arm of the USA Comprehensive Sickle Cell Center that assures the behavioral, cognitive, and psycho-social programs are integrated in the overall care plan of individuals with SCD. Programs within the PSRD 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. PSRD also strives to influence the overall healthcare delivery system for individuals with sickle cell disease in the catchment area served by our Center. PSRD participated in the following activities during 2000-2001: Nationwide Survey: a simple, one-page service inventory survey was developed and mailed to all SCDA member organizations to identify the types and extent of services being provided by member organizations. Out of 62 SCDA member organizations, 36 organizations responded to the questionnaire. The questionnaire yielded the following profile of SCDA member organizations: the majority of organizations (78%) provide both the general and the
professional education. Of those organizations which provide only one type of education, more organizations provided only professional education. However, more general educational events were held than professional educational events. Approximately 56% of SCDA member organizations held 900 tutorial programs. The number of participants ranged from 4 to 60 with the exception of one, which had 118 participants. Almost all of SCDA member organizations provide sickle cell screening; a majority of them provides mass and individual screening. Congressional Hearing on Universal Health Care: The PSRD director was asked to write a statement for the hearing in support of the needs off universal healthcare for every American, as well as to highlight ongoing issues created by existing limitation in access to health care for our consumers with sickle cell disease.

**Educational Series of Pre- and Post-Test Survey Instruments:** An educational series of pre- and post-test survey instruments were developed as scannable teleforms and tested by the Sickle Cell Disease Association in Mobile. Since these forms were developed by the USA Sickle Cell Center with NIH funding over the last ten years, the plan is to standardize and copyright these forms for usage on a national level. **Medicaid Project:** The purpose of this project is to create discussion and a solution to the 16-day limit on inpatient hospital stays for adults who are currently receiving Medicaid and the ongoing issues this limitation creates for our adult Alabamians with sickle cell disease. **Initiatives for Children and Adolescence Research Center:** PSRD, along with Dr. James and Dr. Elise Labbe developed a plan to create a center, called the Center for Childhood and Adolescence Research. This center will address experiences across multiple social institutions that promote or hinder cognitive development and learning among youth. The intent is for our center to promote collaborative, interdisciplinary research that will evaluate children’s involvement in important institutions (such as family, healthcare, and schools) and the conditions that prevent some from gaining benefits from full participation. A grant for this center is pending.

**Education:** The Center faculty continue to provide a broad series of lectures throughout the academic and private medical community. The Center faculty continues 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 eight 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 New York, NY, in April 2001. Kristi Reese, 2nd year medical student, worked in the laboratory of Dr. Betty Pace on the “Involvement of the ERK MAP Kinase Pathway in γ Globin Gene Expression.” The work was presented at the 28th Annual Medical Student Research Day. The USA-CSSC co-sponsored the speaker for the 28th Annual Medical Student Research Day, Dr. Robert Hebbel, whose topic was “Endothelial Biology of Sickle Cell Disease.” The survey on Nurses’ Attitudes and Practices in the Treatment of Acute Pain Episodes has been accepted to the Journal of Applied Nursing Research. The Physicians’ Attitudes and Practices survey has been completed and analyzed and is in preparation for journal submission. Through these continued efforts, such education support will lead to a stronger health care delivery system.
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 2000-2001 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.

2000-2001
University of South Alabama
College of Medicine
Organizational Structure
Office of Biotechnical Services

SENIOR ASSOCIATE DEAN

- Biotechnical Services Executive Advisory Committee
  Chair Mass Spectrometry Core Advisory Committee
  Chair Research Cytometry Core Advisory Committee
  Chair Biopolymer Core Advisory Committee
  Chair Transgenic Animal/ES Cell Advisory Committee

  - Mass Spectrometry Core
    June E. Ayling, Chair
    Nathan Aronson
    David Gremse
    Jay Umbreit
    Warren Zimmer

  - Research Cytometry Core
    Joseph Benoit, Chair
    John Oakes
    Richard Honkanen
    Judy King
    Wing Li

  - Biopolymer Core
    Sailen Barik, Chair
    John Foster
    Anthony Gard
    Betty Pace
    Jonathan Scameall

  - Transgenic Animal/ES Cell
    Robert Leusch, Chair
    Joseph Benoit
    Susan Gibson
    Maura Pieretti
    Jonathan Scameall
    Glenn Wilson
2000-2001
SUMMARY OF ACTIVITIES
BIOPOLYMER LABORATORY

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

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.

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 completion of the sequencing of the human genome and other genomes have drastically reduced the demand for DNA sequencing. The number of DNA templates sequenced during the fiscal year 2000-2001 is down 50% from last year. The technology remains in use mainly to detect mutations and to confirm the genes' locations.
MICRO-ARRAY TECHNOLOGY

The advent of the human genome project has drastically changed the landscape in all areas of biomedical research. Massive amounts of sequence data are now widely available to researchers. In response to this progress, a new DNA microarray system has 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 fluoroscence 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.

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.
2000-2001
MASS SPECTROMETRY LABORATORY
SUMMARY OF ACTIVITIES

I. PUBLISHED ABSTRACTS


II. PRESENTATIONS


III. BRIEF SUMMARY OF ACTIVITIES

1. Personnel

In March, 2001, Dr. Aladar Bencsath, Director of Mass spectrometry laboratory, resigned as Director but remained active as the advisor/consultant of MS laboratory.
2. **Service**

In the past year, 193 samples were submitted for analyses by 19 investigators from 13 laboratories: 16 investigators from 10 laboratories in the College of Medicine, 1 in non-medical departments at the University of South Alabama, and 2 outside the university. The analyses required 810 instrument hours, of which about 350 hours were spent for instrumental & method development. Instrument maintenance also required about 100 hours. A total fee of $2247 was invoiced for the sample analyses.

48% of the samples required electron or chemical ionization, and another 48% required fast atom bombardment ionization. A few samples required MS/MS analyses (6.3%).

Samples from two research projects required gas chromatography-mass spectrometry (GC/MS) analyses with electron ionization and GC/MS with electron capture negative chemical ionization. For these samples, specific clean up and GC processes were developed. To determine the volatile trace components in seafood samples (2%), dynamic headspace enrichment techniques were utilized in combination with GC/MS analyses.

3. **Collaboration and method development:**

We continued the collaborative research with Dr. Steven Goodman, Director of the Comprehensive Sickle Cell Center, on the oxidative transformation of β-Actin in order to produce the Actin specimen equivalent to the irreversibly sickled cell β-Actin, which plays a pivotal role in irreversible sickling. This modified protein is needed for bio-chemical studies that aim to inhibit and hope to reverse the sickling process. During this period, we developed a microassay for measuring the polymerization of actin using fluorescence detection. The collaboration has been concluded with a research paper submitted to the “Biochemistry” journal.

In collaboration with Dr. Dirk Dhossche, Dept. of Psychiatry, we developed an electron capture chemical ionization GC/MS method for GABA determination in blood plasma from autistic and normal children. The novel electronegative GABA derivative demonstrates excellent MS and GC characteristics needed for the analyses at the nanogram level. A manuscript that reports this study has been submitted to the “European Journal of Pediatrics.”

An earlier collaboration on the FDA project “Petrochemical hazards in seafood” was continued using dynamic headspace GC/MS analyses, sensory assessment and electronic nose instrumentation. Selective absorption of the mono- and bi-cyclic aromatic hydrocarbon compounds by fish and oyster from petroleum contaminated water were demonstrated. The dominant components may be useful markers of petrochemical taint in seafood after oil spill.
Presently, we collaborate with Rita Peachey, Sea lab, Dept. of Marine Sciences, to determine the polycyclic aromatic hydrocarbons (PAHs) in oysters from different regions of Mobile Bay. We have developed a GC/MS method to identify and quantify the PAHs in nanogram levels for this project.

4. *Future direction.*

The laboratory will be able to give services for investigators to analyze small 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 more advanced mass spectrometric techniques to analyze larger peptides and proteins in biological samples.
The Research Cytometry Laboratory (RCL) provides a wide range of cell-analysis techniques including three-color immunophenotyping, apoptosis quantitation, GFP detection, cell sorting and cell cloning, immunofluorescence detection of intracellular markers, confocal fluorescence imaging and 3-D reconstruction, DNA (ploidy) analysis, and cellular activation studies such as kinetics analysis of intracellular Ca** and pH modulation.

Instrumentation in the Laboratory includes a triple-laser Leica TCS SP2 confocal laser scanning microscope, dual-laser Becton Dickinson FACSVantage SE flow cytometer, Photon Technology Incorporated (PTI) M-Series fluorescence detection system, Molecular Devices Cytosensor microphysiometer, Olympus BX50 fluorescence microscope, and an Olympus SZX12 stereo zoom microscope.

**Laboratory Utilization** (through Aug 31)  

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow cytometer - samples</td>
<td>1,091</td>
</tr>
<tr>
<td>Leica TCS confocal microscope - hours</td>
<td>70</td>
</tr>
<tr>
<td>Olympus fluorescence microscope - hours</td>
<td>66</td>
</tr>
</tbody>
</table>

Sixteen investigators representing the following eight areas used the services of the RCL during 2000-2001: Biochemistry and Molecular Biology, Microbiology and Immunology, Pediatrics, Pharmacology, Physiology, the Transgenic Laboratory, Cell Biology and Neuroscience, and Orthopaedics.

**Director’s Evaluation of the Laboratory**

Overall activity was down approximately 40%, compared to last year, based on the dollar amount of invoices for services rendered. Faculty education and awareness are the keys to greater utilization of the Laboratory and toward this end we will increase our efforts to publicize its capabilities through Internet notices, mail-outs, and personal contact.

**Future Directions**

Funds from the Shared Instrumentation Grant will also make possible the purchase of a cooled CCD camera for acquisition of images from both the Leica confocal and Olympus standard fluorescence microscopes and a stage incubator for viable samples. In the near future, we hope to add UV-excitation capabilities to the confocal microscope (for visualization of DAPI-stained nuclei) and TurboSort to the FACSVantage (providing sort rates of up to 25,000 cells/sec).

**Extramural Support**

**Active**

NIH DRR/BRS Shared Instrumentation Grant  
"Leica TCS SP Spectral Confocal Microscope"  
1 S10 RR13732-01A1  
R.B. Hester, P.I.  
9/01/2000 to 11/30/2001  
$336,843.
Publications

2000-2001
TRANSGENIC ANIMAL/ES CELL CORE LABORATORY
SUMMARY OF ACTIVITIES

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 semi-annual graduate level course), and consultation with individual investigators.

EDUCATION

During the past year the Co-Directors conducted a series of college/university wide seminars to introduce the facility to investigators and to describe the uses of transgenic/knockout animal models in biomedical research. The October 21 seminar was entitled "Introduction to the USA Transgenic Animal/ES Cell Core Facility"; the October 30 seminar was entitled "Development/Utilization of Transgenic Mouse Models"; and the November 2 seminar was entitled "Development/Utilization of KnockOut/KnockIn Mouse Models."

The monthly Mouse Molecular Genetics Workshop is 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>November 17</td>
<td>Michael Chinkers, Ph.D.</td>
<td>Utilization of Commercial Resources to Develop Knockout Mice</td>
</tr>
<tr>
<td>December 15</td>
<td>Jonathan Scammell, Ph.D.</td>
<td>Expression of Squirrel Monkey FKBP51 in Mice</td>
</tr>
<tr>
<td>January 19</td>
<td>Ron Balczen, Ph.D.</td>
<td>Development of a PCM1KnockOut Mouse</td>
</tr>
<tr>
<td>February 16</td>
<td>Danna Zimmer, Ph.D.</td>
<td>An S100A1 KnockOut/LacZ KnockIn Mouse Model</td>
</tr>
<tr>
<td>March 16</td>
<td>Warren Zimmer, Ph.D.</td>
<td>Genetic Analysis of NKX Transcription Factor Function</td>
</tr>
<tr>
<td>May 18</td>
<td>Robert Lausch, Ph.D.</td>
<td>Studies of Virus-Induced Ocular Inflammation in Gene KnockOut Mice</td>
</tr>
<tr>
<td>June 15</td>
<td>Jon Garcia</td>
<td>Development/Submission of Animal Protocols</td>
</tr>
<tr>
<td>July 20</td>
<td>Rusty Brady, D.V.M.</td>
<td>Health Problems in Transgenic Animals</td>
</tr>
</tbody>
</table>
In cooperation with the Department of Pharmacology, the core invited Dr. F DeMayo, Baylor College of Medicine, to speak at the College wide Distinguished Scientist Seminar Series May 31, 2001. Dr. DeMayo is a recognized expert in the field of transgenics and serves as the Director of the Baylor College of Medicine Transgenic Core Laboratory. Dr. DeMayo serves as an outside member on the USA COM Transgenic Animal/ES Cell Core Laboratory Advisory Committee. In addition to providing guidance to the advisory committee, his seminar "TRANSGENIC ANALYSIS OF PULMONARY EPITHELIAL CELL FUNCTION AND DIFFERENTIATION" was well received by the COM faculty, students, and staff.

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.

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 Animal 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>Consultation</td>
<td>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>Ron Balczon, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>Consultation</td>
<td>Completed</td>
</tr>
<tr>
<td>Jane Funkhouser, Ph.D.</td>
<td>Biochemistry</td>
<td>Consultation</td>
<td>Completed</td>
</tr>
<tr>
<td>Steven Goodman, Ph.D.</td>
<td>Cell Biology &amp; Neuroscience</td>
<td>Consultation</td>
<td>Completed</td>
</tr>
</tbody>
</table>
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 2000-2001 academic year includes $18,581,025 and $2,142,163 administered through the University’s Office of Sponsored Programs and the South Alabama Medical Science Foundation, respectively.

EXTRAMURAL FUNDS
Totals for Recent Years

<table>
<thead>
<tr>
<th>Year</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1990</td>
<td>$10,658,000</td>
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<tr>
<td>1991</td>
<td>13,275,000</td>
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<tr>
<td>1992</td>
<td>11,563,000</td>
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<tr>
<td>1993</td>
<td>11,223,000</td>
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<tr>
<td>1994</td>
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<tr>
<td>1995</td>
<td>14,272,462</td>
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<tr>
<td>1996</td>
<td>16,507,457</td>
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<tr>
<td>1997</td>
<td>14,891,699</td>
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<tr>
<td>1998</td>
<td>18,338,972</td>
</tr>
<tr>
<td>1999</td>
<td>19,108,225</td>
</tr>
<tr>
<td>2000</td>
<td>20,431,119</td>
</tr>
<tr>
<td>2001</td>
<td>20,723,188</td>
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</table>

College of Medicine
Total Annual Extramural Funds From All Sources
## Comprehensive Sickle Cell Center

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnson Haynes, Jr.</td>
<td>Comprehensive Sickle Cell Center Program*</td>
<td>NIH</td>
<td>$1,212,967</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$1,212,967*</td>
</tr>
<tr>
<td></td>
<td>The individual projects are listed in Departmental Sections.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Dean's Office

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Samuel J. Strada</td>
<td>Cardiovascular Research for Medical Students</td>
<td>SE Affiliate AHA</td>
<td>$10,800</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>$10,800</td>
</tr>
<tr>
<td>PRINCIPAL INVESTIGATOR</td>
<td>PROJECT TITLE</td>
<td>AGENCY</td>
<td>YEAR'S TOTAL FUNDING</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
<td>-----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Frank Pettyjohn</td>
<td>A Randomized, Double-Blind, Double-Dummy, Multicenter, Parallel Group Study to Assess the Effectiveness and Health Economic Impact of Oral Factive, 320mg Once Daily for 5 Days Versus Oral Clarithromycin 500mg Twice Daily for 7 Days for the Treatment of Acute Exacerbation of Chronic Bronchitis</td>
<td>SmithKline Beecham</td>
<td>$ 9,988</td>
</tr>
<tr>
<td></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>
<td>27,350</td>
</tr>
<tr>
<td></td>
<td>A Double-Blinded, Randomized, Placebo-Controlled, Parallel-Group, Multi-Center, Flexible Dose Study to Evaluate the Efficacy and Safety of Viagra in Males With Erectile Dysfunction and Arterial Hypertension Who Are Taking Multiple Antihypertensive Treatment</td>
<td>Pfizer Inc</td>
<td>15,230</td>
</tr>
<tr>
<td></td>
<td>Omapatrilat Cardiovascular Treatment Assessment Versus Enalapril (OCTAVE), CV137-120</td>
<td>Bristol-Myers Squibb</td>
<td>34,781</td>
</tr>
<tr>
<td></td>
<td>Prospective, Randomized, Double-Blind Study Comparing Faropenem Daloxate 300mg PO BID for 10 Days</td>
<td>Bayer</td>
<td>7,191</td>
</tr>
<tr>
<td></td>
<td>Prospective, Randomized, Double-Blind, Multi-Center, Comparative Trial to Evaluate the Efficacy and Safety of Faropenem Daloxate 300mg PO BID for 7 Days vs. Cephalixin 500mg PO BID for 7 Days in the Treatment of Uncomplicated Skin and Structure Infections</td>
<td>Bayer</td>
<td>8,956</td>
</tr>
<tr>
<td>Principal Investigator</td>
<td>Project Title</td>
<td>Agency</td>
<td>Year's Total Funding</td>
</tr>
<tr>
<td>------------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Frank Pettyjohn</td>
<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>
<td>$5,000</td>
</tr>
<tr>
<td></td>
<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>
<td>Sankyo</td>
<td>4,605</td>
</tr>
<tr>
<td></td>
<td>AMAZE: Antihypertensive Efficacy of Adding Candesartan Cilexetil to Lisinopril in Comparison to Up-titration of Lisinopril. A Multi-center Trial Using ATACAND-ZESTRIL vs ZESTRIL to Evaluate the Effects on Lowering Blood Pressure – the AMAZE Program</td>
<td>AstraZeneca</td>
<td>4,400</td>
</tr>
<tr>
<td>Botros Rizk</td>
<td>Multicenter Efficacy Study Comparing EMD 90 171, a Once a Week Estradiol-Levonorgestrel Combination Transdermal System, With Placebo in the Treatment of Vasometer Symptoms Associated With Menopause**</td>
<td>Solvay</td>
<td>81,254</td>
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<tr>
<td></td>
<td>Teriparatide Compared With Alendronate on Spine Bone Mineral Density in Postmenopausal Women With Osteoporosis**</td>
<td>Eli Lilly &amp; Co</td>
<td>6,026</td>
</tr>
</tbody>
</table>

**Not added to this total.**

$204,781
### FAMILY PRACTICE AND COMMUNITY MEDICINE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary K. Barfield</td>
<td>NHSC Search Program</td>
<td>HRSA (ADPH)</td>
<td>$ 10,000</td>
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<tr>
<td></td>
<td>Student Preceptorship Subsidy</td>
<td>AFP, RHB</td>
<td>50,000</td>
</tr>
<tr>
<td>R. Allen Perkins</td>
<td>A Competency Based Third Year Family Medicine Curriculum (Residency Training Grant)</td>
<td>HRSA (BHPR)</td>
<td>140,400</td>
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<tr>
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<td>Academic Faculty/Rural Physician Reciprocal Mini-Residency Program</td>
<td>ADPH (RHB)</td>
<td>33,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$ 233,400</td>
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</tbody>
</table>

### LUNG BIOLOGY PROGRAM/LUNG INSTITUTE

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
</tr>
</thead>
<tbody>
<tr>
<td>Troy Stevens</td>
<td>Lung Endothelial Cell Phenotypes+</td>
<td>NIH</td>
<td>$1,316,540</td>
</tr>
</tbody>
</table>

+ The individual projects are listed in Departmental Sections.
## MEDICAL GENETICS

<table>
<thead>
<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>PROJECT TITLE</th>
<th>AGENCY</th>
<th>YEAR'S TOTAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wladimir Wertelecki</td>
<td>Children's Rehabilitation Services Genetics Grant</td>
<td>HRSA (Subcon ADRS)</td>
<td>$173,800</td>
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<tr>
<td></td>
<td>&quot;Southwest Alabama Integrated Health Services for Genetic Disorders&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>South Alabama Regional Genetics Program</td>
<td>HRSA (ADPH)</td>
<td>50,000</td>
</tr>
<tr>
<td></td>
<td>Genetics and Mental Health Program</td>
<td>AMHM</td>
<td>137,268</td>
</tr>
<tr>
<td></td>
<td>Alabama Birth Defects Surveillance &amp; Prevention Program (Supplement)</td>
<td>CDC</td>
<td>141,044</td>
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<tr>
<td></td>
<td>Ukranian Birth Defects Project</td>
<td>USAID</td>
<td>1,000,000</td>
</tr>
<tr>
<td></td>
<td>Nutrition, Dietary Control and Phenylketonuria</td>
<td>USAID</td>
<td>8,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>$1,510,112</td>
</tr>
<tr>
<td>PRINCIPAL INVESTIGATOR</td>
<td>PROJECT TITLE</td>
<td>AGENCY</td>
<td>YEAR'S TOTAL FUNDING</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Michael V. Cohen</td>
<td>Catechols and Adenosine in Myocardial Preconditioning</td>
<td>NIH</td>
<td>$ 203,616</td>
</tr>
<tr>
<td>Marcel E. Conrad</td>
<td>Regulators of Iron Absorption</td>
<td>NIH</td>
<td>385,665</td>
</tr>
<tr>
<td></td>
<td>Minority-Based Clinical Oncology Program</td>
<td>NIH</td>
<td>284,788</td>
</tr>
<tr>
<td></td>
<td>The Star Trial – Master Purchased Services Agreement</td>
<td>NSABP Fdn</td>
<td>6,000</td>
</tr>
<tr>
<td>Michael Culpepper</td>
<td>A Study Evaluating the Initiation and Titration of Fixed Doses of Novel Erythropoiesis Stimulating Protein Therapy in Subject With Chronic Renal Insufficiency</td>
<td>Amgen</td>
<td>9,619</td>
</tr>
<tr>
<td></td>
<td>Randomized, Double-Blind, Comparator Controlled Trial to Evaluate the Pharmacodynamic Effects, Pharmacokinetics and Safety of M100240 in Subject With Essential Hypertension Treated for 4 Weeks</td>
<td>Aventis</td>
<td>51,558</td>
</tr>
<tr>
<td>Jack DiPalma</td>
<td>Comparison of the Clinical Safety and Efficacy of Pantoprazole 10mg, 20mg, or 40mg Once Daily and Placebo in Patients With Symptomatic Erosive Esophagitis</td>
<td>Wyeth-Ayers Res</td>
<td>7,839</td>
</tr>
<tr>
<td></td>
<td>Braintree-Colon Cleansing Comparison</td>
<td>Braintree Labs</td>
<td>36,081</td>
</tr>
<tr>
<td>T. Michael Fan</td>
<td>Apoptosis and Ischemic Preconditioning</td>
<td>Am Heart Assn</td>
<td>30,000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SE Affiliate</td>
<td></td>
</tr>
<tr>
<td>PRINCIPAL INVESTIGATOR</td>
<td>PROJECT TITLE</td>
<td>AGENCY</td>
<td>YEAR'S TOTAL FUNDING</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-------------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>T. Michael Fan</td>
<td>Suppression of Myocyte Apoptosis by Ischemic/Hypoxic Preconditioning - Role of BCI-2 Phosphorylation</td>
<td>Am Heart Assn</td>
<td>$ 65,000</td>
</tr>
<tr>
<td>Joe Hardin</td>
<td>A Multicenter, Randomized Double-Blind Placebo-Controlled Phase III Study of the Human Anti-TNF Monoclonal Antibody D1E7 Administered as Subcutaneous Injections to Patients With Active Rheumatoid Arthritis Currently Receiving Treatment With Methotrexate</td>
<td>Knoll/BASF</td>
<td>21,280</td>
</tr>
<tr>
<td>Johnson Haynes</td>
<td>Acute Lung Injury in Sickle Cell Disease*</td>
<td>NIH</td>
<td>107,369</td>
</tr>
<tr>
<td></td>
<td>Education of Health Professionals*</td>
<td>NIH</td>
<td>95,960</td>
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<tr>
<td></td>
<td>Comprehensive Sickle Cell Administrative Core*</td>
<td>NIH</td>
<td>371,218</td>
</tr>
<tr>
<td>Jorge Herrera</td>
<td>Chronic Hepatitis Research</td>
<td>Integrated Therapeutics</td>
<td>28,120</td>
</tr>
<tr>
<td></td>
<td>Efficacy of 15 mcg INFERGEN for Chronic Hepatitis C in Patients Who Are Non-Responders and Relapsers</td>
<td>Amgen</td>
<td>5,280</td>
</tr>
<tr>
<td></td>
<td>High Dose Interferon +Ribavirin Therapy for Patients With Chronic Hepatitis C Who Failed Prior Treatment</td>
<td>Schering Corp</td>
<td>5,250</td>
</tr>
<tr>
<td></td>
<td>A Prospective, Randomized, Multi-Center, Open-Label Comparative Safety Study of Pegasys vs Pegasys Plus Ribavirin Treatment vs. A 12-Week Treatment Delay in Patients With Chronic Hepatitis C</td>
<td>Roche Labs</td>
<td>5,097</td>
</tr>
<tr>
<td>PRINCIPAL INVESTIGATOR</td>
<td>PROJECT TITLE</td>
<td>AGENCY</td>
<td>YEAR'S TOTAL FUNDING</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>----------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Candace C. McCombs</td>
<td>Grants Program Management</td>
<td>Sequella Global Tuberculosis Fdn</td>
<td>$72,036</td>
</tr>
<tr>
<td>Jack Painter</td>
<td>An Open Study, With Blinded Endpoint Assessment, to Assess the Safety, Tolerability, and the Effect on Coronary Artery Patency of Intravenous AR-C69931MX as Both Monotherapy and Adjunct to Activase in Patients With St-Elevation Myocardial Infarction</td>
<td>Astra/Henry Ford</td>
<td>14,250</td>
</tr>
<tr>
<td></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>
<td>Proctor &amp; Gamble</td>
<td>10,125</td>
</tr>
<tr>
<td>Jay Umbreit</td>
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### MICROBIOLOGY/IMMUNOLOGY

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<td>Use of ILRP and OFA as Vaccine in Rodent Tumor Therapy</td>
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<td>Mechanisms in Control of Acid Resistance in E. Coli</td>
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<td>Robert N. Lausch</td>
<td>Role of MIP-2 in HSV-1 Induced Corneal Inflammation</td>
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<td>Chemokine Gene Regulation in Human Corneal Epithelia</td>
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<td>Herbert H. Winkler</td>
<td>Permeability of the Epidemic Typhus Rickettsia</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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<td>Jane Boggs</td>
<td>Open-Label, Safety Study of Gabapentin as Adjunct Therapy in Children Aged 1 Month Through 4 Years With Seizures Uncontrolled by Current Anticonvulsant Drugs</td>
<td>Parke-Davis (Warner Lambert)</td>
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<td>Jorge Mendizabal</td>
<td>A Multicenter, Double-Blind, Randomized, Parallel Group Study of the Safety and Efficacy of BOTOX Purified Neurotoxin Complex for the Prophylactic Treatment of Migraine Headache</td>
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<td>A Multicenter, Double-Blind, Randomized, Placebo-Controlled, Parallel Group Study of the Safety and Efficacy of BOTOX Purified Neurotoxin Complex for the Prophylactic Treatment of Migraine Headaches</td>
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<td>John Rothrock</td>
<td>Patient Preference for Migraine Headache Therapy: Imitrex Tablets Versus Current (Non-Triptan) Therapy</td>
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## ORTHOPAEDIC SURGERY

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## PATHOLOGY

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<td>Melatonin as a New Anti-Amyloidogenic and Antioxidant Agent</td>
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<td>Benjamin Estrada</td>
<td>Linezolid IV/PO vs Vancomycin IV for the Treatment of Resistant Gram-Positive Bacterial Infections in Children</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>A Multicenter, Open Label Study of the Efficacy and Safety of Exisulind at the Highest Tolerated Dose in Pediatric With Intact Colons and a Diagnosis of Adenomatous Polyposis Coli</td>
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<td>A Study to Assess the Safety, Dose Conversion and Titration of Duragesic in Pediatric Patients With Chronic Pain Requiring Opioid Therapy</td>
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<td>Linezolid vs Cefadroxil in the Treatment of Skin and Skin Structure Infections in Children</td>
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<td>Kenneth Rettig</td>
<td>An Open Label Trial Evaluating the Safety and Efficacy of Nolvadex in the Treatment of McCune-Albright Syndrome</td>
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<td>Lawrence J. Sindel</td>
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<td>Franklin Trimm</td>
<td>Neonatal Follow-Up Project</td>
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$790,990
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<td>June Ayling</td>
<td>Accumulation of Folic Acid Polyglutamates: A Potential Cause of Inadequate Response to Treatment of Hyperhomocysteinemia</td>
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<td>Crystallography of Dehydratase/DCoH: A Target of Lung Disease</td>
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<td>Vitamin Project</td>
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<td>Mark N. Gillespie</td>
<td>DNA Lesions and Gene Expression in Hypoxic Lung Disease</td>
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<td>An Animal Model of Glucocorticoid Resistance</td>
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|                        | Experimental Infection of Squirrel Monkey B-Lymphocytic Cell Lines With Creutzfeldt-Jacob Disease | Baxter | $ 91,555
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# Radiology

**Principal Investigator**: Greg Cotter  
**Project Title**: A Phase III, Randomized, Open-Label, Comparative Study of Standard Whole Brain Radiation Therapy With or Without RSR13 in Patients With Brain Metastases  
**Agency**: Allos Therapeutics, Inc.  
**Year's Total Funding**: $7,694

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# Rural Health

**Principal Investigator**: Regina M. Benjamin  
**Project Title**: Application for Basic/Core AHEC Grant  
**Agency**: HRSA (BHPR)  
**Year's Total Funding**: $1,334,226

**Project Title**: CME Video Library  
**Agency**: Ernest Debakey Charitable Fdn  
**Year's Total Funding**: 8,782

**Project Title**: USA Telemedicine  
**Agency**: HRSA  
**Year's Total Funding**: 864,000

**Project Title**: A Feasibility Study for Telemedicine  
**Agency**: HRSA  
**Year's Total Funding**: 115,000

**Total Funding**: $2,322,008
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<td>Richard P. Gonzalez</td>
<td>A Prospective, Randomized, Double-Blind, Multi-Center Trial Assessing the Safety and Efficacy of Sequential Bay 12-8039 (Moxifloxacin) 400 mg Every 24 Hours Compared to Intravenous Piperacillin/Tazofactam 3.375gm Every 6 Hours Followed by Oral Amoxicillin/Clavulanic Acid Suspension 800mg Every 12 Hours for the Treatment of Patients With Complicated Intra-Abdominal Infections</td>
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<td>Center to Study Rural Vehicular Trauma</td>
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<td>Clinical Evaluation of Regranex (becaplermin) Gel 0.01% for the Treatment of Full Thickness Diabetic Neuropathic Foot Ulcers</td>
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<td>A Phase II Randomized, Double-Blind, Placebo-Controlled, Multiple-Dose, Parallel Group, Multi-Center Study of the Effects of PB00d on the Re-Epithelialization of Donor Sites in Patients With Burns Which Require Skin Grafting</td>
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<td>Arnold Luterman</td>
<td>A Randomized, Controlled, Within-Patient-Paired Study to Compare the Effectiveness of TranCyte and Biobrane In the Treatment of Mid-Dermal to Indeterminate Depth Burn Wounds</td>
<td>Advanced Tissue Science</td>
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<td>Jeffrey D. Manordi</td>
<td>A Randomized, Double-Blinded, Parallel-Group, Placebo-Controlled, Multi-Center Study to Evaluate the Efficacy and Safety of Repifermin (KGF2) in Subjects With Venous Ulcers</td>
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# PHARMACOLOGY

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<td>June Ayling</td>
<td>Accumulation of Folic Acid Polyglutamates: A Potential Cause of Inadequate Response to Treatment of Hyperhomocysteinemia</td>
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<td>Stephen Schaffer</td>
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<td>Glucose-Induced Protection Against Hypoxia-Induced Apoptosis</td>
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<td>Store Operated CA2+ Entry: Lung Endothelial Permeability</td>
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<td>239,111</td>
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<tr>
<td></td>
<td>Lung Endothelial Cell Phenotypes Core 1: Administrative+</td>
<td>NIH</td>
<td>129,963</td>
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<td>Lung Endothelial Cell Phenotypes Core 2: Cell Culture+</td>
<td>NIH</td>
<td>187,947</td>
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<td></td>
<td>Calcium Inhibition of cAMP in Endothelial Cell Permeability+</td>
<td>NIH</td>
<td>279,138</td>
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<tr>
<td>W. Joseph Thompson/</td>
<td>Cell Pathways Collaborative Research</td>
<td>Cell Pathways</td>
<td>28,734</td>
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<tr>
<td>S.J. Strada</td>
<td>Endothelial Cell cGMP Receptors and Function</td>
<td>NIH</td>
<td>275,708</td>
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<tr>
<td>Danna Zimmer</td>
<td>Studies of Interactions Between P53 and S100 Proteins</td>
<td>ACS – Subcon Univ MD</td>
<td>31,530</td>
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<tr>
<td></td>
<td>Mechanisms for Fetal Hemoglobin Induction*</td>
<td>NIH</td>
<td>100,661</td>
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<td></td>
<td>Deciphering the Cellular Functions of Aldolase</td>
<td>NIH – Subcon Boston Univ</td>
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**$3,197,438**
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<thead>
<tr>
<th>PRINCIPAL INVESTIGATOR</th>
<th>PROJECT TITLE</th>
<th>AGENCY</th>
<th>YEAR'S TOTAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stephen T. Ballard</td>
<td>Airway Submucosal Glands and Cystic Fibrosis Disease</td>
<td>NIH</td>
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<td></td>
<td>Pharmacological Model of Cystic Fibrosis Lung Disease</td>
<td>Cystic Fibrosis Fdn</td>
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<td>Joseph N. Benoit</td>
<td>Intestine in Chronic Portal Hypertension</td>
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<td></td>
<td>Role Collecting Lymphatic Pumps in Prevention of Interstitial Edema</td>
<td>Lymphedema Fdn</td>
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<td>Michael V. Cohen</td>
<td>Catechols and Adenosine in Myocardial Preconditioning**</td>
<td>NIH</td>
<td>203,616</td>
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<td>James M. Downey</td>
<td>Physical Factors and Coronary Flow</td>
<td>NIH</td>
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<td></td>
<td>KAPPA-PVIIA a KATP Opener With Anti-Ischemic Potential</td>
<td>NIH (Subcon Cognetix)</td>
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<td>AMP 579 Research</td>
<td>Aventis</td>
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<td></td>
<td>Rabbit Myocardial Infarction Research</td>
<td>Maxim</td>
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<td>James C. Parker</td>
<td>Mechanogated Calcium Entry in Pulmonary Injury</td>
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<td>240,237</td>
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<td>Airway Perfusion Assisted Liquid Ventilator</td>
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<td></td>
<td>Mechanical Injury to Lung Endothelium+</td>
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<td>283,462</td>
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** Not added in total.
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<thead>
<tr>
<th>PRINCIPAL INVESTIGATOR</th>
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<th>AGENCY</th>
<th>YEAR'S TOTAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aubrey E. Taylor</td>
<td>T-Lymphocyte Involvement in Lung Ischemia-Reperfusion Injury</td>
<td>NIH</td>
<td>$289,000</td>
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<tr>
<td>Mary I. Townsley</td>
<td>Regulation of Pulmonary Endothelial Permeability</td>
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<td><strong>$2,302,315</strong></td>
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### Radiology

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
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</thead>
<tbody>
<tr>
<td>Greg Cotter</td>
<td>A Phase III, Randomized, Open-Label, Comparative Study of Standard Whole Brain Radiation Therapy With or Without RSR13 in Patients With Brain Metastases</td>
<td>Allos Therapeutics, Inc.</td>
<td>$7,694</td>
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</table>

### Rural Health

<table>
<thead>
<tr>
<th>Principal Investigator</th>
<th>Project Title</th>
<th>Agency</th>
<th>Year's Total Funding</th>
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<tr>
<td>Regina M. Benjamin</td>
<td>Application for Basic/Core AHEC Grant</td>
<td>HRSA (BHPR)</td>
<td>$1,334,226</td>
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<td></td>
<td>CME Video Library</td>
<td>Ernest DeBakey Charitable Fdn</td>
<td>8,782</td>
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<td></td>
<td>USA Telemedicine</td>
<td>HRSA</td>
<td>864,000</td>
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<tr>
<td>C. Taylor</td>
<td>A Feasibility Study for Telemedicine</td>
<td>HRSA</td>
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Total: $2,322,008
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<tr>
<th>PRINCIPAL INVESTIGATOR</th>
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<th>YEARS TOTAL FUNDING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Richard P. Gonzalez</td>
<td>A Prospective, Randomized, Double-Blind, Multi-Center Trial Assessing the Safety and Efficacy of Sequential Bay 12-8039 (Moxifloxacin) 400 mg Every 24 Hours Compared to Intravenous Piperacillin/Tazofactam 3.375gm Every 6 Hours Followed by Oral Amoxicillin/Clavulanic Acid Suspension 800mg Every 12 Hours for the Treatment of Patients With Complicated Intra-Abdominal Infections</td>
<td>Bayer</td>
<td>$ 10,180</td>
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<tr>
<td>Arnold Luterman</td>
<td>Center to Study Rural Vehicular Trauma</td>
<td>DOT</td>
<td>500,000</td>
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<tr>
<td></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>
<td>7,500</td>
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<tr>
<td></td>
<td>A Phase II Randomized, Double-Blind, Placebo-Controlled, Multiple-Dose, Parallel Group, Multi-Center Study of the Effects of PB00d on the Re-Epithelialization of Donor Sites in Patients With Burns Which Require Skin Grafting</td>
<td>Pharmadigm</td>
<td>20,887</td>
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<tr>
<td></td>
<td>INTEGRA Artificial Skin - Post Approval Study</td>
<td>Integra LifeSci Corp</td>
<td>21,600</td>
</tr>
<tr>
<td></td>
<td>A Prospective, Randomized, Double-Blind, Multi-Center Trial Assessing the Safety and Efficacy of Sequential BAY 12-8039 (Moxifloxacin) 400 mg Every 24 Hours Compared to Intravenous Piperacillin/Tazofactam 3.0/0.375g Every 6 Hours Followed by Oral Amoxicillin/Clavulanic Acid Suspension 800gm Every 12 Hours for the Treatment of Patients With Complicated Skin and Skin Structure Infections</td>
<td>Bayer Corp</td>
<td>7,938</td>
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<tr>
<td>PRINCIPAL INVESTIGATOR</td>
<td>PROJECT TITLE</td>
<td>AGENCY</td>
<td>YEAR'S TOTAL FUNDING</td>
</tr>
<tr>
<td>------------------------</td>
<td>------------------------------------------------------------------------------</td>
<td>-------------</td>
<td>----------------------</td>
</tr>
<tr>
<td>Arnold Luterman</td>
<td>A Randomized, Controlled, Within-Patient-Paired Study to Compare the Effectiveness of TranCyte and Biobrane In the Treatment of Mid-Dermal to Indeterminate Depth Burn Wounds</td>
<td>Advanced Tissue Sci</td>
<td>$16,813</td>
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<tr>
<td>Jeffrey D. Manord</td>
<td>A Randomized, Double-Blinded, Parallel-Group, Placebo-Controlled, Multi-Center Study to Evaluate the Efficacy and Safety of Repifermin (KGF2) in Subjects With Venous Ulcers</td>
<td>Human Genome Science</td>
<td>$19,186</td>
</tr>
<tr>
<td></td>
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<td>$604,104</td>
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RANKING OF UNITED STATES MEDICAL SCHOOLS
ACCORDING TO FUNDS AWARDED BY
NATIONAL INSTITUTES OF HEALTH
DURING FISCAL YEAR 2000

The College of Medicine's rank among all U.S. medical schools for fiscal year 2000 was 96th. Please note that this ranking is for National Institutes of Health funds only, and does not include extramural funding from other granting agencies. Please also note that the information presented here is for FY 2000, because of the delay in receipt of NIH reports.

<table>
<thead>
<tr>
<th>RANK</th>
<th>INSTITUTION</th>
<th>TOTAL NIH FUNDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>80</td>
<td>University of South Florida Col of Med</td>
<td>$18,325,557</td>
</tr>
<tr>
<td>81</td>
<td>St Louis University Sch of Medicine</td>
<td>17,447,569</td>
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<tr>
<td>82</td>
<td>SUNY Buffalo Sch of Medicine</td>
<td>16,951,582</td>
</tr>
<tr>
<td>83</td>
<td>Morehouse College School of Medicine</td>
<td>16,126,962</td>
</tr>
<tr>
<td>84</td>
<td>Tulane University Sch of Medicine</td>
<td>16,105,301</td>
</tr>
<tr>
<td>85</td>
<td>New York Medical College</td>
<td>15,902,626</td>
</tr>
<tr>
<td>86</td>
<td>University of Puerto Rico Sch of Med</td>
<td>13,838,110</td>
</tr>
<tr>
<td>87</td>
<td>Med Coll of Pennsylvania/Hahnemann Univ Sch of Med</td>
<td>13,593,446</td>
</tr>
<tr>
<td>88</td>
<td>George Washington Univ Sch of Medicine</td>
<td>12,943,626</td>
</tr>
<tr>
<td>89</td>
<td>Howard University College of Medicine</td>
<td>12,718,924</td>
</tr>
<tr>
<td>90</td>
<td>University of Louisville Sch of Medicine</td>
<td>12,689,272</td>
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<tr>
<td>91</td>
<td>Univ of Mississippi Sch of Medicine</td>
<td>12,044,807</td>
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<tr>
<td>92</td>
<td>Univ of Missouri Columbia Sch of Med</td>
<td>11,649,085</td>
</tr>
<tr>
<td>93</td>
<td>Texas A&amp;M Univ Col of Medicine</td>
<td>11,161,404</td>
</tr>
<tr>
<td>94</td>
<td>University of Nevada Sch of Medicine</td>
<td>11,007,562</td>
</tr>
<tr>
<td>95</td>
<td>SUNY Hlth Scis Ctr Syracuse Col of Med</td>
<td>10,917,952</td>
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<tr>
<td>96</td>
<td>University of South Alabama Sch of Med</td>
<td>10,734,626</td>
</tr>
<tr>
<td>97</td>
<td>Meharry Medical College Sch of Medicine</td>
<td>8,729,446</td>
</tr>
<tr>
<td>98</td>
<td>Charles R. Drew University of Med &amp; Sci</td>
<td>8,614,268</td>
</tr>
<tr>
<td>99</td>
<td>Albany Medical College of Union Univ</td>
<td>7,825,455</td>
</tr>
<tr>
<td>100</td>
<td>West Virginia University Sch of Medicine</td>
<td>7,760,034</td>
</tr>
<tr>
<td>101</td>
<td>Medical College of Ohio at Toledo</td>
<td>7,711,780</td>
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<tr>
<td>102</td>
<td>Michigan State U Col of Human Medicine</td>
<td>5,871,016</td>
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<tr>
<td>103</td>
<td>Wright State University Sch of Medicine</td>
<td>5,320,370</td>
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<tr>
<td>104</td>
<td>Loma Linda University Sch of Medicine</td>
<td>5,200,257</td>
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<tr>
<td>105</td>
<td>Finch Univ of Hlth Scis Chicago Med Sch</td>
<td>5,097,934</td>
</tr>
<tr>
<td>RANK</td>
<td>INSTITUTION</td>
<td>TOTAL NIH FUNDS</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------------------------------</td>
<td>-----------------</td>
</tr>
<tr>
<td>106</td>
<td>Eastern Virginia Med/Sch Med Col Hamp Rd</td>
<td>$ 4,944,127</td>
</tr>
<tr>
<td>107</td>
<td>Texas Tech Univ Hlth Scis Ctr Sch of Med</td>
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<tr>
<td>108</td>
<td>Univ of Missouri Kansas City Sch of Med</td>
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<tr>
<td>109</td>
<td>Creighton University School of Medicine</td>
<td>3,781,030</td>
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<tr>
<td>110</td>
<td>East Carolina University Sch of Med</td>
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</tr>
<tr>
<td>111</td>
<td>Univ of South Dakota Sch of Medicine</td>
<td>2,897,498</td>
</tr>
<tr>
<td>112</td>
<td>Southern Illinois Univ Sp Sch of Med</td>
<td>2,888,197</td>
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<tr>
<td>113</td>
<td>Univ of North Dakota Sch of Medicine</td>
<td>2,848,833</td>
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<tr>
<td>114</td>
<td>Univ of Hawaii John A Burns Sch of Med</td>
<td>2,497,296</td>
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<tr>
<td>115</td>
<td>Central U of the Caribe Sch Med of Cayey</td>
<td>2,429,176</td>
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<tr>
<td>116</td>
<td>East Tenn St Univ Quillen Med Col</td>
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<td>117</td>
<td>Ponce School of Medicine</td>
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<td>118</td>
<td>Univ of South Carolina Sch of Medicine</td>
<td>2,252,046</td>
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<tr>
<td>119</td>
<td>Northeastern Ohio Univ College of Med</td>
<td>1,370,257</td>
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<tr>
<td>120</td>
<td>Marshall University School of Medicine</td>
<td>1,013,316</td>
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<tr>
<td>121</td>
<td>Mercer University School of Medicine</td>
<td>871,824</td>
</tr>
</tbody>
</table>
OFFICE OF TECHNOLOGY DEVELOPMENT

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 FY2001, four inventions developed by College of Medicine faculty were issued patents by the US Patent & Trademark Office:

- **US 6,130,207** Cell-specific molecule and method for importing DNA into a nucleus (D. Dean & W. Zimmer)
- **US 6,235,891** Glucocorticoid receptor agonist and decreased PP5 (R. Honkanen)
- **US 6,254,904** Food and vitamin preparation containing the natural isomer of reduced folates (S. Bailey & J. Ayling)
- **US 6,274,615** Method for delaying the onset of Alzheimer's disease (M. Pappolla)

College of Medicine faculty disclosed seven new inventions to OTD in FY2001. The figure below tracks the number of invention disclosures made by College of Medicine faculty in each fiscal year since 1995, when the original Office of Technology Transfer was founded.
During FY2001, technology development activities at the College of Medicine increased in some measures and decreased in others. The invention disclosures almost doubled, reflecting an increased awareness of the opportunity for commercial development of novel discoveries. The number of licenses signed in FY2001 decreased in comparison to the number signed in FY2000 due in large part to the complexity of several deals currently in negotiation.

Licensees of COM inventions reimbursed the South Alabama Medical Science Foundation (SAMSF) for 71% of legal fees spent on patenting and licensing activities related to those inventions. The College of Medicine, through SAMSF, received $76,125 associated with the licensing of inventions made by its faculty and generated $153,000 in sponsored research funding associated with inventions. The total income of all types received by OTD in working with COM faculty to commercialize inventions was $247,225.

Further details about the operation of the Office of Technology Development in FY2001, and a comparison with the statistics of the previous two fiscal years, can be found in the table below.

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<thead>
<tr>
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<th>2000</th>
<th>2001</th>
<th>CUM TOTAL</th>
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<tr>
<td>Licenses Generating Revenue</td>
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<td>5</td>
<td>4</td>
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<tr>
<td>Total Active Licenses</td>
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<td>7</td>
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<td>US Patents Filed (all types)</td>
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<td>5</td>
<td>5</td>
<td>21</td>
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<tr>
<td>US Patents Issued</td>
<td>6</td>
<td>3</td>
<td>4</td>
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<tr>
<td>Start-up Companies Formed</td>
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<td>0</td>
<td>1</td>
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<tr>
<td>Legal Fees Expended</td>
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<td>$232,161</td>
<td>$81,945</td>
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<td>Legal Fees Reimbursed</td>
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<td>$148,832</td>
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<tr>
<td>Percent of Expenses Reimbursed</td>
<td>0%</td>
<td>64%</td>
<td>71%</td>
<td>46%</td>
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<tr>
<td>Research Agreements Executed</td>
<td>x</td>
<td>3</td>
<td>1</td>
<td>4</td>
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<tr>
<td>Research Dollars associated with Inventions</td>
<td>$152,000</td>
<td>$111,500</td>
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<td>$416,600</td>
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<tr>
<td>Material Transfer Agreements</td>
<td>x</td>
<td>10</td>
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<td>26</td>
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2000-2001
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 22-24, 2001. Sixty-six 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. Events included a course in CPR and a book and instrument sale. Orientation events concluded with an optional dinner on the battleship "U.S.S. Alabama." This event was very well attended by both Freshman and Sophomore classes and was a great end to orientation activities.

Junior Orientation was held in the Mastin Building on the USAMC Campus on May 7, 2001. 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 Risk Management, Infection Control, and Quality Assurance.

The second annual White Coat Ceremony was held on Sunday, May 6, 2001, in the University Ballroom. Students and their families were welcomed by Dr. Bennett for the Office of Student Affairs and Medical Education and Dr. Damien Collins for the Medical Alumni Association. Dr. Allan Tucker, 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. Collins presented members of the sophomore class with a white coat and a lapel pin, courtesy of the Arnold P. Gold Foundation for Humanism in Medicine. 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 Orlando. Two students also received support for attendance at the Organization of Student Representatives meetings at the AAMC annual meeting in Washington DC.

The Office supports a tutoring program which pays upperclassmen and/or graduate students to tutor Freshman and Sophomore students who request assistance. In 2000-2001, five (5) tutors provided 53 hours of tutoring to nine (9) students in Gross Anatomy, Histology, and Biochemistry.

The number of visiting medical students who participated in Senior elective courses at USACOM in 2000-2001 is outlined below.

<table>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Total Visitors</td>
<td>41</td>
<td>53</td>
<td>30</td>
<td>17</td>
<td>33</td>
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<tr>
<td>From LCME Schools</td>
<td>13</td>
<td>27</td>
<td>19</td>
<td>14</td>
<td>8</td>
</tr>
<tr>
<td>From Osteopathic Schools</td>
<td>4</td>
<td>2</td>
<td>4</td>
<td>3</td>
<td>8</td>
</tr>
<tr>
<td>From Foreign Schools</td>
<td>24</td>
<td>24</td>
<td>7</td>
<td>0</td>
<td>17</td>
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<tr>
<td>Completed Paperwork, but Cancelled Visit</td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>From LCME Schools</td>
<td>5</td>
<td>6</td>
<td>6</td>
<td>3</td>
<td>1</td>
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Letters of evaluation (Dean's Letters) were written for each of the 65 seniors who graduated in May 2001. Original letters and official transcripts were mailed to 120 residency directors during the months of November through January; 1676 letters were sent through the AAMC Electronic Residency Application Service (ERAS).

One student in the Class of 2001 deferred residency for a year to participate in an ophthalmology fellowship at Johns Hopkins School of Medicine. Sixty-four students matched with 81% of the students receiving their first, second, or third choice. Sixty of the May graduates used the NRMP as their primary means of obtaining residency. Four graduates used the San Francisco Subspecialty Match.
## University of South Alabama Seniors
### Residencies Received by Discipline

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<td>11%</td>
<td>8</td>
<td>13%</td>
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<tr>
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### University of South Alabama Seniors
### Residencies Received by State

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<th>Year</th>
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<th>Out-of-State</th>
<th>Number of Different States</th>
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<td>1999</td>
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<td>37%</td>
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<td>46%</td>
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<td>27</td>
<td>42%</td>
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</table>
Sixty-five seniors received the degree Doctor of Medicine at Commencement on May 5, 2001. On the evening of May 4, the College held its twenty-sixth Honors Convocation, which took place in the Mitchell Center. Dr. John Bass addressed the class and Monica Williams-Murphy responded for the graduates. Prior to hooding the graduates, the following awards were presented:

Dean's Award ........................................... Clark A. Gray
Outstanding Student in the Anatomical Sciences ................... Clark A. Gray
Charles M. Baugh Award in Biochemistry .................. Christopher J. Walton
Merck Award in Ophthalmology .................. Christopher J. Walton
John W. Donald Memorial Award in Surgery ............. Linda J. Lash
Humanism in Medicine Award .......................... Linda J. Lash
Obstetrics/Gynecology Award .................. Michael F. Fesenmeier
Medical Assurance Award .......................... Macharia T. Carter
Medical Alumni Leadership Award .................. Kristopher F. Lay
Family Practice and Community Medicine Student Award ........... Mandi M. Sehgal
Pathology Award .................................... Linda E. Roley
American Medical Women's Association Scholarship
Achievement Citation ................................ Adrienne C. Chew
Merck Award ....................................... Andrew R. Brown
Pharmacology Achievement Award .................. Miranda Jill Fell
Samuel Eichold Award ................................ Charles A. Parrish
SNMA Leadership Award .............................. Dereck B. Davis

Community Service Award .......................... Kathleen J. Locker

Neurology Award ........................................ Audrey L. Hudson

Hollis J. Wiseman Award for Excellence in Pediatrics .................................. Audrey L. Hudson

Charles W. Urschel Achievement Award in Physiology .................. Edward A. Hyndman, III

Excellence in Emergency Medicine Award ........................ Monica Williams-Murphy
## 2000-2001
## Grades Assigned

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### Academic Progress of Medical Students

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

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### Dismissed

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

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<td>49</td>
<td>49</td>
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### United States Medical Licensure Examination (USMLE) Step 1
#### First Time Takers

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<td>63</td>
<td>66</td>
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<td>Failure Rate - National</td>
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<td>7%</td>
<td>5%</td>
<td>7%</td>
<td>8%</td>
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<td>Failures at USA</td>
<td>6%(4)</td>
<td>2%(1)</td>
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#### Anatomy

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<tr>
<td>Pathology</td>
<td>214(+3)</td>
<td>219(-1)</td>
<td>225(+2)</td>
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<td>Microbiology &amp; Immunology</td>
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<td>212(-1)</td>
<td>217(+1)</td>
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<td>Pharmacology</td>
<td>206(-4)</td>
<td>210(-1)</td>
<td>216(+1)</td>
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Discipline scores illustrate points above and below the national mean in parentheses
Minimum passing score = 176 (179 beginning June, 1998)
Standard Deviation approximately 20
*Discipline scores are no longer provided.
United States Medical Licensure Exam (USMLE) Step 2
First Time Takers

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<td>209</td>
<td>210</td>
<td>213</td>
</tr>
<tr>
<td>USACOM Overall Mean</td>
<td>200</td>
<td>201</td>
<td>209</td>
<td>202</td>
<td>217</td>
</tr>
<tr>
<td>Percentile Rank*</td>
<td>49</td>
<td>48</td>
<td>55</td>
<td>43</td>
<td>NA</td>
</tr>
<tr>
<td>Health &amp; Health Maintenance</td>
<td>200 (-2)</td>
<td>202 (-2)</td>
<td>N/A</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Understanding Mechanisms of</td>
<td>202 (-1)</td>
<td>201 (-4)</td>
<td>209 (+3)</td>
<td>198(-9)</td>
<td>217(+4)</td>
</tr>
<tr>
<td>Disease</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Diagnosis</td>
<td>200 (-3)</td>
<td>202 (-6)</td>
<td>208 (-1)</td>
<td>204(-8)</td>
<td>214(+1)</td>
</tr>
<tr>
<td>Principles of Management</td>
<td>196 (-1)</td>
<td>199 (-4)</td>
<td>204 (+1)</td>
<td>198(-5)</td>
<td>218(+5)</td>
</tr>
<tr>
<td>Medicine</td>
<td>200 (-1)</td>
<td>201 (-6)</td>
<td>208 (-1)</td>
<td>203(-7)</td>
<td>214(+1)</td>
</tr>
<tr>
<td>Ob/Gyn</td>
<td>200 (+4)</td>
<td>203 (+2)</td>
<td>214 (+9)</td>
<td>198(-8)</td>
<td>221(+10)</td>
</tr>
<tr>
<td>Pediatrics</td>
<td>201 (-2)</td>
<td>202 (-3)</td>
<td>212 (+8)</td>
<td>202(-5)</td>
<td>219(+7)</td>
</tr>
<tr>
<td>Psychiatry</td>
<td>205 (-2)</td>
<td>201 (-11)</td>
<td>204 (-5)</td>
<td>206(-5)</td>
<td>212(-1)</td>
</tr>
<tr>
<td>Surgery</td>
<td>198 (-1)</td>
<td>198 (-5)</td>
<td>204 (-1)</td>
<td>198(-8)</td>
<td>216(+3)</td>
</tr>
<tr>
<td>Failure Rate - National</td>
<td>6%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
<td>5%</td>
</tr>
<tr>
<td>Failures at USA</td>
<td>8% (5)</td>
<td>8% (5)</td>
<td>3% (2)</td>
<td>10%(6)</td>
<td>2%(1)</td>
</tr>
</tbody>
</table>

*Compared with first-time takers from recent administrations
Points above and below national mean in parentheses

Minimum passing score = 170 (167 for Class of 1996)
Standard deviation = 20 (22 beginning with Class of 1997)
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>not available</td>
<td>not available</td>
</tr>
<tr>
<td>USA Percentage Passing</td>
<td>98</td>
<td>92</td>
<td>100</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>USA Number of Students</td>
<td>67</td>
<td>63</td>
<td>58*</td>
<td>60**</td>
<td>48***</td>
</tr>
</tbody>
</table>

*58/60 students have taken Step 3 as of 8/99
**60/62 students have taken Step 3 as of 8/00
***48/58 students have taken Step 3 as of 8/01
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>Medical Knowledge</th>
<th>Class of 1997</th>
<th>Class of 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Fifth</td>
<td>23%</td>
<td>16%</td>
<td>29.75%</td>
<td>24%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>37%</td>
<td>39%</td>
<td>30.5%</td>
<td>48%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>30%</td>
<td>33%</td>
<td>25.75%</td>
<td>28%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>9%</td>
<td>10%</td>
<td>12%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>1%</td>
<td>2%</td>
<td>2%</td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Data Collection Recording Skills</th>
<th>Class of 1997</th>
<th>Class of 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Fifth</td>
<td>25%</td>
<td>23%</td>
<td>32%</td>
<td>38%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>49%</td>
<td>47%</td>
<td>28.5%</td>
<td>28%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>25%</td>
<td>23%</td>
<td>26.5%</td>
<td>35%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>1%</td>
<td>3%</td>
<td>6.5%</td>
<td>0%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>2%</td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Clinical Judgement and Skills</th>
<th>Class of 1997</th>
<th>Class of 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Fifth</td>
<td>33%</td>
<td>25%</td>
<td>37%</td>
<td>40%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>16%</td>
<td>41%</td>
<td>25%</td>
<td>38%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>42%</td>
<td>28%</td>
<td>28%</td>
<td>19%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>9%</td>
<td>3%</td>
<td>7%</td>
<td>2%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>0%</td>
<td>0%</td>
<td>1%</td>
<td>0%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Professional Attitudes</th>
<th>Class of 1997</th>
<th>Class of 1998</th>
<th>Class of 1999</th>
<th>Class of 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top Fifth</td>
<td>32%</td>
<td>37%</td>
<td>53%</td>
<td>45%</td>
</tr>
<tr>
<td>Upper Middle Fifth</td>
<td>39%</td>
<td>37%</td>
<td>23%</td>
<td>43%</td>
</tr>
<tr>
<td>Middle Fifth</td>
<td>25%</td>
<td>18%</td>
<td>15%</td>
<td>12%</td>
</tr>
<tr>
<td>Lower Middle Fifth</td>
<td>3%</td>
<td>8%</td>
<td>4%</td>
<td>0%</td>
</tr>
<tr>
<td>Bottom Fifth</td>
<td>1%</td>
<td>0%</td>
<td>4%</td>
<td>0%</td>
</tr>
</tbody>
</table>

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

The 2000-2001 Curriculum Committee was chaired by Dr. Steve Greenberg. The first activity of the academic year was the second annual Curriculum Retreat, which was sponsored by the Committee and held at the Brookley Conference Center. The Retreat was attended by 35 participants, representing eleven departments, the Biomedical Library, the College of Medicine Administration, the Student Body, and the House Staff. Topics which were discussed at the Retreat included an update on topics discussed at the 1999 Retreat (Longitudinal Clinical Experience, Clinical Skills Evaluation, Clinical Correlations), Residents as Medical Educators, Appropriate Treatment in Medicine, and a possible Core Curriculum for 3rd and 4th year students. Dr. Robert Eaglen, Associate Vice President in the Division of Medical School Standards and Assessment at the AAMC, gave a luncheon presentation on Assessment and Quality Control in Medical Education. After lunch, Dr. Brenda Litchfield, from the Department of Education, gave a workshop for course directors on "Increasing Adult Motivation."

During the 2000-2001 academic year, the Curriculum Committee concentrated on four areas. These were: (1) continuing development and refinement of the Longitudinal Clinical Experience; (2) development of a formal method for ongoing review of the curriculum; (3) review of the fourth year curriculum; and (4) determination of a COM policy regarding student use of computers.

A subcommittee chaired by representatives from the Departments of Family Practice and Medicine continued the work on the Longitudinal Clinical Experience which was begun in the 1999-2000 academic year. Dr. Perkins enlisted the aid of the Southwest Alabama Health Education Consortium to identify preceptors and to provide a person to coordinate the scheduling and assignment of students. Approximately 50 preceptors were identified. First-year students were surveyed regarding preference of location and specialty and were assigned to a preceptor based on these preferences where possible. The students had a total of 4 sessions with their preceptors during the second semester. After the last session both students and preceptors completed evaluations of the total experience. The evaluations were generally positive and all preceptors who participated agreed to continue the experience in the 2000-2001 academic year. Sophomores will begin preceptor visits in September and continue on a monthly basis. They will be joined by first year students in the spring. At the present time, it is anticipated that the preceptor visits will continue on a monthly basis through the third year. The Family Practice Department hopes to hold a preceptor development workshop for participants sometime in the course of the academic year.

The subcommittee charged with the development of a method for ongoing review of the curriculum by year was chaired by a representative from the Department of Pathology. The mechanism which was proposed by the subcommittee and approved by the entire committee involves a one-on-one meeting between a member of the subcommittee and the course director to review course objectives and discuss how they link to the overall institutional objectives. It is anticipated that once this linkage is made each course director
will give a brief presentation to the Curriculum Committee reviewing the mechanisms by which the objectives are met. The proposal is that each of the first three years of the curriculum should be reviewed in this manner with the committee devoting itself to review of one year of study each academic year. In this manner each of the first three years of the curriculum will be reviewed every three years.

The committee representative from the Neurology Department chaired the subcommittee which reviewed the fourth year curriculum. This subcommittee reviewed data from the AAMC 2000 Curriculum Directory, the USACOM Electives Catalog, the USACOM Student Handbook, and a list of electives taken as externships in the past three years. They also interviewed fourth year students and housestaff who are recent graduates (of USA and elsewhere). The subcommittee recommended no change in the requirements for the fourth year. They suggested that, due to the popularity of the Emergency Room rotation, a new elective in the Children's Evaluation Center (CEC) at USA Children's and Women's Hospital should be developed. The committee also suggested that advisors should be somewhat more active in helping students plan their fourth year. They also suggested that we should explore ways to make the curriculum for this year more flexible in order to allow students who express interest in a specialty with an early match to gain exposure to that specialty before completing all aspects of the third year.

The subcommittee on use of computers by medical students was chaired by the committee representative from Cell Biology and Neuroscience. The committee reviewed the official University of South Alabama policy on Student Computer Equipment and Software Requirements and decided that this policy is sufficient for our students. The policy states that students must have access to a personal computer and this access must include, as a minimum, a current version of the Microsoft Office package and internet access. The subcommittee recommended that all students in the COM be given a copy of this policy. The committee also recommended that course directors be encouraged to make course materials available on a web site and that the Baugh Biomedical Library be the official site on which curricular issues are posted.

All recommendations from these subcommittees were approved by the Committee.

At the request of the Committee, Dr. Bennett developed a survey on "Appropriate Treatment in Medicine," which was e-mailed to all students in the COM. This survey asked for information regarding reported incidents of mistreatment which was in more detail than requested on the Graduation Questionnaire. A total of 34 responses were received. There were two reports of "abuse" by fourth year students and no abuse reported by other classes. Review of the details of these incidents indicated that they fell more in the category of embarrassment than abuse and probably did not indicate a recurring problem.

Dr. Bennett asked the committee for suggestions of persons to be put on an ad hoc committee to develop the COM policy for "Standards of Conduct in the Teacher-Learner Relationship".
Other activities of the Committee included:

1. Review and approval of electives for freshman and sophomore students.

2. Review and approval of new electives for seniors:
   - Clinical Nutrition
   - Pediatric Emergency Medicine
   - Pediatric Critical Care
   "Special Elective" in all clinical departments (This elective allows students and faculty to design an elective experience that is not routinely offered. The elective description must be approved by the Vice Dean in advance of the rotation.)

3. Ongoing review of library activities

4. Review of Behavioral Science course (substantially revised course given by a different department than in previous years)

5. Discussion of medical ethics curriculum revision

6. Reviewed and revised policy on visiting students

7. Reviewed and revised clinical skills cards

8. Reviewed and revised old policy (no longer in use) dealing with student participation in patient care procedures and referred this issue to the COM Executive Council for action

9. Reviewed summaries of course evaluations from first three years of the curriculum

10. Reviewed summary of survey of program directors on clinical performance of Class of 2000
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: Dr. Stephen Greenberg
   Best 4th Year Rotation: Dr. Yih-Ming Yang
   Cardiology Consult

2. Dr. Tony Gard replaced Dr. Cynthia Donnell as the Basic Science Faculty Advisor to the Student Assembly.

3. The Committee initiated a review of the distribution of students among the clerkships. It was noted that when the clerkships are very uneven it creates a problem with call and other assignments. After review of the current clerkship distribution, Dr. Bennett noted that the problem could be addressed by limiting student requests for special scheduling consideration to those students interested in the 3 + 3 programs in Medicine or Family Practice. In order to maintain some flexibility for the students, however, after the initial draft of the schedule is published in the spring of the sophomore year, students will have a two-week period in which they may trade their entire schedule with another student who is willing to do so. This practice, plus the new policy for dealing with students who fail a mini-board, should alleviate the maldistribution problem.

4. The Committee invited Kaira King, one of the representatives of the COM to the SGA, to attend the Committee meetings and report on SGA meetings and activities. In this manner, it is hoped that the Committee will be able to take better advantage of funds which might be made available through the SGA as well as to increase communication between the two organizations.

5. Kirkland Stein from Alabama Administrators presented the new proposal for student health insurance coverage for 2001-2002. This year, there were two proposals - one from Blue Cross/Blue Shield and one from United of Omaha. The two proposals were comparable in price and benefits were similar. After the issue was discussed with the student body at class meetings, the committee voted to accept the bid from United of Omaha. This decision was supported by Alabama Administrators who believe that it will place the students in a better bargaining position for insurance bids in the future.
6. The Committee was involved with the following additional projects or areas of concern:

a. Moving Honors Convocation from Saturday morning of graduation day to the previous Friday evening
b. Provision of funds in support of an Orientation party for Freshmen
c. Monitoring of student call rooms in the Mastin Building and USA Children's and Women's hospital for problems related to use or maintenance
d. Monitoring status of equipment in the student lounge
e. Ongoing review of White Coat Ceremony, Review of Systems, and Skit Night
## 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>$4,887,723</td>
<td>$4,454,365</td>
<td>$4,654,669</td>
<td>$5,012,708</td>
<td>$5,350,861</td>
</tr>
<tr>
<td>Students on Aid</td>
<td>237</td>
<td>239</td>
<td>240</td>
<td>243</td>
<td>240</td>
</tr>
</tbody>
</table>

**Loans**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Perkins</td>
<td>143,891</td>
<td>130,771</td>
<td>128,017</td>
<td>431,900</td>
<td>240,000</td>
</tr>
<tr>
<td>Health Professions Loan</td>
<td>122,550</td>
<td>38,000</td>
<td>58,240</td>
<td>123,081</td>
<td>231,307</td>
</tr>
<tr>
<td>Stafford Loan</td>
<td>1,712,476</td>
<td>1,640,560</td>
<td>1,703,052</td>
<td>1,719,656</td>
<td>1,791,278</td>
</tr>
<tr>
<td>Graduate Unsubsidized</td>
<td>1,778,045</td>
<td>1,672,519</td>
<td>1,730,705</td>
<td>1,822,449</td>
<td>2,542,252</td>
</tr>
<tr>
<td>Alternative Loan Program</td>
<td>417,797</td>
<td>311,264</td>
<td>396,775</td>
<td>313,392</td>
<td>0</td>
</tr>
<tr>
<td>Loans to Disadvantaged Students</td>
<td>550</td>
<td>3,979</td>
<td>4,409</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Outside Private Loans</td>
<td>77,209</td>
<td>37,718</td>
<td>70,951</td>
<td>31,589</td>
<td>33,200</td>
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<tr>
<td><strong>Total Loans</strong></td>
<td>$4,282,318</td>
<td>$3,869,811</td>
<td>$4,092,149</td>
<td>$4,442,087</td>
<td>$4,838,037</td>
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**Scholarships**

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>University Sponsored</td>
<td>304,902</td>
<td>279,568</td>
<td>294,050</td>
<td>295,050</td>
<td>344,600</td>
</tr>
<tr>
<td>Outside Sponsored</td>
<td>130,634</td>
<td>97,926</td>
<td>86,120</td>
<td>49,696</td>
<td>8,769</td>
</tr>
<tr>
<td>Military - Army</td>
<td>30,423</td>
<td>22,916</td>
<td>15,241</td>
<td>7,669</td>
<td>17,020</td>
</tr>
<tr>
<td>Military - Navy</td>
<td>30,543</td>
<td>33,341</td>
<td>30,649</td>
<td>38,513</td>
<td>25,546</td>
</tr>
<tr>
<td>Alabama Medical Board Scholarship</td>
<td>30,000</td>
<td>35,000</td>
<td>40,000</td>
<td>45,000</td>
<td>60,000</td>
</tr>
<tr>
<td>Military - Air Force</td>
<td>45,728</td>
<td>38,253</td>
<td>15,261</td>
<td>15,360</td>
<td>12,698</td>
</tr>
<tr>
<td><strong>Total Scholarships</strong></td>
<td>$ 542,230</td>
<td>$ 472,003</td>
<td>$ 474,321</td>
<td>$ 451,288</td>
<td>$ 468,633</td>
</tr>
</tbody>
</table>

**Grants**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Scholarships for Disadvantaged Students</td>
<td>2,630</td>
<td>6,846</td>
<td>4,915</td>
<td>35,515</td>
<td>1,244</td>
</tr>
<tr>
<td>Exceptional Financial Need</td>
<td>36,327</td>
<td>62,733</td>
<td>54,410</td>
<td>55,892</td>
<td>28,488</td>
</tr>
<tr>
<td>Disadvantaged Health Professions</td>
<td>24,218</td>
<td>42,972</td>
<td>21,874</td>
<td>27,946</td>
<td>14,459</td>
</tr>
<tr>
<td><strong>Total Grants</strong></td>
<td>$ 63,175</td>
<td>$ 112,551</td>
<td>$ 81,199</td>
<td>$ 119,353</td>
<td>$ 44,191</td>
</tr>
</tbody>
</table>

**Average Indebtedness of a Graduating Senior**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$ 61,729</td>
<td>$ 55,701</td>
<td>$ 58,538</td>
<td>$ 62,500</td>
<td>$ 70,103</td>
</tr>
</tbody>
</table>
An Emergency Loan Fund is available to medical students. Loans of up to $500 may be obtained by students through a fund administered by the Office of Student Affairs and Medical Education for a period of up to 60 days for the purpose of alleviating an unanticipated financial need. There is no interest charged. During the period August 1, 2000, through July 31, 2001, 40 emergency loans were approved for a total amount of $20,230.00. During that period, 35 payments totalling $17,300.00 were paid back into the loan account.

OFFICE OF SPECIAL PROGRAMS

Biomedical Enrichment and Recruitment Program (BEAR):

Phase I:

The summer of 2001 marked the completion of the sixteenth year for the BEAR program. There were a total of 28 applications submitted for the 2001 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:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dillard</td>
<td>1</td>
</tr>
<tr>
<td>Springhill</td>
<td>1</td>
</tr>
<tr>
<td>Stillman</td>
<td>2</td>
</tr>
<tr>
<td>UAB</td>
<td>1</td>
</tr>
<tr>
<td>USA</td>
<td>1</td>
</tr>
<tr>
<td>Xavier</td>
<td>1</td>
</tr>
</tbody>
</table>

and are residents of the states of Alabama (4), Georgia (2), and Louisiana (1). Six (6) of the students are female and one (1) is male, and all are of African American descent. The grade point averages of the students who entered the program ranged from 2.67 to 4.0. Their ACT score range was 18-30. To date, a total of 165 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 2000 were successful and were promoted into Phase II.
The students in Phase II represented the following schools:

Alabama A & M .................................................. 1
Auburn .............................................................. 1
Delta State .......................................................... 1
Florida A&M ......................................................... 2
Jackson State ....................................................... 1
Xavier ................................................................. 1

Of the Phase II students who participated, five (5) are residents of Alabama, and two (2) are residents of Mississippi. Five (5) of the seven students in Phase II were successful and are expected to matriculate into the USA College of Medicine in 2002.

In August 2000, seven (7) minority freshmen entered the College of Medicine; all of them entered through the BEAR program. There were five (5) 2001 minority graduates; four (4) were former BEAR program participants and one (1) entered through traditional admission. In the fall of 2001, eight (8) BEAR students are scheduled to matriculate into the freshmen COM class from the original 1999 BEAR cohort of fourteen (14), plus one (1) student who deferred in 2000 for a total of nine (9) students. One (1) student from the original 1999 BEAR group deferred until 2002 and (1) student entered UAB. Four (4) students from the original 1999 BEAR cohort were unsuccessful.
Office of Medical Alumni Affairs

The 2000-2001 Board of Directors for the Medical Alumni Association consisted of nine Mobile physicians. Dr. Damian Collins served as President with the following board members: Dr. Oscar Almeida, Dr. Gregory Cotter, Dr. David Gremse, Dr. Lisa Habb, Dr. Russell Hudgens, Dr. Robert Percy, Dr. David Ross, and Dr. Kathleen Webster. The USA College of Medicine has graduated 1,561 physicians (this includes 18 deceased alumni).

All alumni projects, activities, and donations are funded by two sources: Dues Program and Medical Alumni Annual Fund. The 2000-2001 Dues Program generated $9,815. 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. The Annual Fund raised $47,500, with 424 alumni contributing (29% of total membership participating).

Scholarship development continues to be the foremost project for the association. This academic year, we awarded 25 first-year scholarships along with the Clyde Huggins Family Practice Scholarship, the Christian Grinaker Memorial Scholarship, the Michael Moore Memorial Award for Excellence in Gross Anatomy (freshman year), one senior travel award (foreign clerkship), and the Medical Alumni Leadership Award (a senior award elected by the graduating class). Donations were made to two scholarships associated with alumni interests: the Robert Russell Scholarship and the Donna Ledet Scholarship.

In addition to financial support of scholarships, the Alumni Association made donations to and supported the following activities (October 1, 2000 to September 30, 2001): Medical Student Section AMA, American Medical Women's Association, Medical Student Alliance, Orientation Committee, Primary Care Day Committee, Skit Night Committee, the Caduceus Ball Committee, the Review of Systems Committee, gifts of senior mini-diplomas, co-hosting two professional receptions for alumni (Annual State Medical Association Meeting and the Alabama Academy for Family Physicians), purchase of coats for the White Coat Ceremony, the primary sponsor of senior Match Day, pager rental for student usage, a $500 donation to the CWH Biomedical Library, sponsor of the Charles Baugh Annual COM Picnic, and the Annual Medical Alumni Weekend.

The Annual Medical Alumni Weekend was held June 21-23, 2001, at the Perdido Beach Resort. Five reunion classes participated: 1976, 1981, 1986, 1991, and 1996. A total of six CME presentations were made by COM faculty and alumni: Dr. William Gardner (Chair, Department of Pathology), Dr. John Bass (Chair, Department of Internal Medicine), Dr. Albert Pearsall (Associate Professor, Department of Orthopaedics), Dr. Vera Bittner '81 (Professor, Division of Cardiology, UAB), Dr. Ann Weinacker '86 (Pulmonary Department, Stanford University Medical Center), and Dr. Edward Panacek '81 (Professor, Department of Emergency Medicine at the University of California, Davis). Dr. Roger S. Lane, Associate Professor of Biochemistry and Molecular Biology, was the recipient of the 2001 Alumni Distinguished Service Award.

All class correspondence and the Medical Alumni Newsletter is coordinated by the Office of Alumni Affairs. A detailed professional database and address roster is maintained and available by request.
Office of Admissions

Applicant Pool and Acceptance Data

The period for receiving applications to the College of Medicine for the class entering August 22, 2001, opened June 1, 2000, and closed November 15, 2000. It is important to note that the College of Medicine is a participant in the Association of American Medical College Application Service (AMCAS).

During the above period of time, 743 applications were received. Three hundred thirty-six (336) applications were received from residents of Alabama, 397 from other United States Citizens, and 10 from citizens of a foreign country. The Admissions Committee interviewed a total of 199 applicants (189 residents) and accepted 124 (114 residents) to fill a class of 64 (55 residents). Out of 16 black applicants who were offered acceptance, 9 matriculated (4 resident); 9 are BEAR students. This year, our records show a decrease in the total applicant pool over the previous year (829 in '00 vs. 743 in '01), and a slight decrease in the number of Alabama applications (388 in '00 vs. 336 in '01).

The 2000 entering class has an exceptional "mix" of academically well-qualified students who graduated from 29 different colleges and universities. However, 45% of this year's class is made up of students from the four (4) largest universities in the state (Table II).

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 quarterly 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 199 candidates; each interviewee was interviewed by three committee members, giving a total of 597 interviews.

8. The following Admissions Committee subcommittees were active in 1999-00:

   - 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 includes 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 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.
<table>
<thead>
<tr>
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<td>Alabama Rural</td>
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<td>Alabama Black</td>
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<td>Out-of-State Black</td>
<td>77</td>
<td>56</td>
<td>47</td>
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| Total Applicants Interviewed | 222 | 219 | 195 | 199 |

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<tr>
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<td>99</td>
<td>87</td>
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<td>Black (excludes BEARs)</td>
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<td>3</td>
<td>6</td>
<td>7</td>
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| Total Applicants Accepted | 112 | 106 | 125 | 124 |

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<td>Service Areas (FL &amp; MS)</td>
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<tr>
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<td>Bear Program</td>
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<td>Early Decision Program</td>
<td>11</td>
<td>19</td>
<td>10</td>
<td>8</td>
</tr>
</tbody>
</table>

| Total Matriculants | 65* | 65* | 64   | 64   |
| Average MCAT | 30  | 29  | 29   | 29   |
| Average GPA | 3.7 | 3.7 | 3.6  | 3.7  |

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<td>Foreign</td>
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<td>Total Black</td>
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<td>0</td>
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<tr>
<td>Black BEAR Program</td>
<td>5</td>
<td>7</td>
<td>7</td>
<td>9</td>
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</table>

*Includes one Advanced Standing Student
“Repair of Mitochondrial DNA Damage in Dopaminergic Neurons.” Scott Hollensworth, sophomore medical student. Sponsored by Susan LeDoux, Ph.D., Department of Cell Biology and Neuroscience.

“Involvement of the ERK MAP Kinase Pathway in γ Globin Gene Repression.” Kristi Reese, sophomore medical student. Sponsored by Betty Pace, M.D., Departments of Cell Biology and Neuroscience and Pediatrics.

“Caspase-Dependent Apoptosis of Gum Epithelial Cells Infected With Porphyromonas gingivalis”. David Cherry, sophomore medical student. Sponsored by Sailen Barik, Ph.D., Department of Biochemistry and Molecular Biology.

“An Immunohistochemical Approach for Assessing the Effects of Statin Treatment on β-Amyloidogenesis in a Murine Model for Alzheimer’s Disease.” José Cabrera, freshman medical student. Sponsored by Miguel Pappolla, M.D., Department of Pathology.

POSTER PRESENTATIONS

"Aberrant Mitotic Spindle Formation in A549 Cells Treated With Cantharidin and Okadaic Acid." Suzanne Hicks, freshman medical student. Sponsored by Richard Honkanen, Ph.D., Department of Biochemistry and Molecular Biology.

“Hydraulic Conductance of Pulmonary Endothelial Monolayers.” Jason Randall, sophomore medical student. Sponsored by James Parker, Ph.D., Department of Physiology.

“Cytokine Involvement in Lung I/R Injury.” W. Bradley Shirah, sophomore medical student. Sponsored by Aubrey Taylor, Ph.D., Department of Physiology.

“Proliferation Rates Discriminate Between Lung Macro- and Microvascular Endothelial Cells: Relevance of Embryological Origin and Sensitivity to Disease.” Priya Bhat, sophomore medical student. Sponsored by Troy Stevens, Ph.D., Department of Pharmacology.
2000-2001
GRADUATE PROGRAM IN BASIC MEDICAL SCIENCES

Administration -- Basic Medical Sciences

The administrative structure of the graduate program functioned for the 2000-2001 academic year under the leadership of Dr. Joseph N. Benoit, Professor in the Department of Physiology, the Graduate Executive Committee, and the Senior Associate Dean, Dr. Samuel Strada. Dr. Benoit assumed his rotation as Director on July 1, 2000.

The Graduate Program expresses appreciation to Dr. Benoit for his service to the program over the last year and wishes him success as he assumes his new position as Dean of the Graduate School at the University of North Dakota September 1, 2001. Dr. Mary I. Townsley, Professor in the Department of Physiology, was elected by BMS Graduate Faculty to serve as Director of the Program for a three-year term. She assumed the position August 1.

Recruitment Activities

Several Basic Medical Science Graduate Faculty members from the Department of Physiology participated in the fifth annual statewide Graduate and Professional School Alabama Circuit in October. Numerous Alabama colleges and universities joined together to host this event, allowing representatives the opportunity to discuss graduate and professional school programs with undergraduate students from across the state. Though student participation is not outstanding, the event provides a chance for our faculty to establish faculty contacts at the various Alabama institutions for future graduate program recruitment opportunities.

The Basic Medical Sciences Ph.D. Graduate Program hosted its seventh Graduate Student Open House on Thursday, January 25, 2001, from 10:00 a.m. to 5:00 p.m. Letters requesting names and addresses for potential students were sent to 114 regional institutions. Twenty-three schools responded, sending lists. Approximately 1,950 invitations were mailed and/or distributed to students, faculty, and advisors at various 4-year colleges and universities across the southeastern region (Alabama, Florida, Georgia, Louisiana, Mississippi, South Carolina, Tennessee, and Texas). Additionally, ads were placed in USA’s “Vanguard,” and the student newspapers at the University of Alabama, Spring Hill College, and University of Southern Mississippi.

On-line registration was offered for the first time this year. A total of sixteen reservations were received for this event, which was held in the College of Medicine Conference Room. Twelve of the sixteen students (from Alabama, Florida, Georgia, and Mississippi) attended. Dr. Benoit welcomed visiting students and made a few general introductory remarks about the university and graduate program and core facilities prior
to faculty from the Basic Medical Science departments making individual presentations, highlighting their respective department. Graduate faculty and students joined guests for lunch and departmental poster sessions and discussions. Following lunch, visiting students toured departmental labs, in which various lab experiments, highlighting current research projects were conducted by graduate faculty and students. The afternoon’s activities concluded with a Distinguished Scientist Seminar presented by Dr. Stephen Projan and drawings for door prizes.

Surveys received from participants were positive, and four of the twenty-three completed U.S. applications received for the 2001-2002 class were from students who registered for and/or attended the Open House. Offers were made to three of the four students. Of the seven U.S. students accepted and matriculating into the Graduate Program for Fall, 2001, one attended the forum. Plans are being considered to modify the Open House for 2002.

Other recruitment methods considered and/or utilized include the establishment of a website highlighting the Graduate Program, participation in Summer Research and Honors Programs, and contacts with faculty at smaller institutions. In addition to the Graduate Office’s placing an ad in Science, the Department of Microbiology and Immunology also placed an ad in the April issue of the Vanguard. Attempts were also made to increase awareness of the program through the campus Office of Public Relations.

Several graduate program faculty, students, and staff participated in the USARC 8th Annual Research Forum April 16-19, highlighting research being conducted within the Basic Medical Science areas.

**Admission Statistics for the 2001-2002 Academic Year**

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<th></th>
<th>U.S.</th>
<th>International</th>
<th>Total</th>
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<tbody>
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<td>Applications:</td>
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<td>498</td>
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<tr>
<td>Inquiries</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(including 78 Cancer Biology/17 MD/PHD)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Completed applications received</td>
<td>22</td>
<td>113</td>
<td>135</td>
</tr>
<tr>
<td>Applicants interviewed/accepted</td>
<td>11</td>
<td>3</td>
<td>14</td>
</tr>
<tr>
<td>Applicants matriculating</td>
<td>9</td>
<td>0</td>
<td>9</td>
</tr>
</tbody>
</table>

**Average UG GPA of Students Matriculating 2001-2002:** 3.45 (N = 9)

**Average GRE of Students Matriculating 2001-2002:** 1668 (N = 8)
New Programs/Policies/Requirements

Sylvia Friedl, Manager of the Office of Research Compliance and Assurance, presented information on NIH’s policy OD-00-039 requiring all funded principal investigators and their support staff to complete education relating to animal, human, and basic research in addition to research training conducted with grant, contract, or cooperative agreement support from any agency or office of the Public Health Service. An Executive Committee motion was passed, requiring all graduate students to comply with the policy by completing training, via seminars, workshops, and on-line instruction. Graduate students completed the NIH on-line training program. Many students also participated in a one day workshop held in April, receiving training in approximately five of the nine core areas that research personnel holding grants must receive training in.

On October 21, 2001, a basic medical sciences graduate faculty retreat was held at Brookley. Agenda items pertaining to curriculum, student performance, governance, and recruitment matters of the graduate program were discussed and prioritized for implementation. Recommendations were made and forwarded to the Senior Associate Dean for review, and then brought to the Executive Committee for final review and subsequent execution into policy and procedure.

GOVERNANCE - proposed that the BMS Graduate Program be administered by a rotating Director, elected by a majority vote of the Graduate Faculty, to serve a three-year term. The Director may serve an additional term, if reelected, but the same individual cannot serve more than two consecutive terms. Selection of the new Director will take place 2.5 years into the term of the current Director.

The election for the Director will be conducted by an Elections Committee composed of a member from each Basic Science Department. Members will be appointed by the current Director, with the concurrence of the Chair in the Committee member’s Department. The committee will elect a chair to preside over its meetings. It will be the Committee’s task to solicit candidates, disseminate policy statements from candidates to the Graduate Faculty, and conduct a secret ballot election to determine the Director. If none of the candidates receives greater than 50% of the votes from the Basic Medical Sciences Graduate Faculty, a runoff election will be held between the two candidates receiving the most votes, and the one receiving the majority of votes in a runoff election will become the Director.

CURRICULUM - proposed and have begun work on developing a core curriculum for incoming students’ first year of course work. The curriculum committee advocates students’ entering the program without selecting specific departments and allowing them to complete three lab rotations with any member of the Basic Medical Sciences Graduate Faculty, regardless of their advanced program affiliation. Entering students would also complete a two-semester core course designed to prepare them for study in any of the advanced programs and provide sufficient broad training to prepare them for the wide range of careers available in biomedical sciences.
It is anticipated that the core curriculum course(s) will be interdisciplinary and interdepartmental. The target date for implementing a core curriculum is Fall, 2002.

SPEC - proposed revisions of policies concerning the dissertation defense and decisions regarding graduate student dismissal and probation.

The committee recommended that students be required to complete a rigorous, closed defense of dissertation, administered by the candidate's dissertation committee and deemed satisfactory by a majority vote of said committee before the scheduling of the candidate's public dissertation seminar. Submission of the written dissertation should be completed at least two weeks prior to the closed defense of dissertation.

In regard to dismissals and probationary status for BMS graduate students, a recommendation was made that students be dismissed for (1) receiving six semester hours of D or F, (2) accumulating any combination of 9 semester hours of C or less, or (3) failing to raise a GPA above a 3.0 within two consecutive semesters of being placed on probation. Additionally, students may be dismissed or placed on probation for two unsuccessful attempts to pass qualifying exams, unsatisfactory progress at two consecutive dissertation committee meetings, unethical scientific conduct or failing to comply with guidelines in the timely completion of requirements for earning the Ph.D. degree. When deemed appropriate, SPEC will meet with the student before making a recommendation to the Director of the Graduate Program on the action and period of time and conditions required for removal of the probation status.

An appeals process was also recommended, allowing students an opportunity to appeal an automatic academic dismissal or SPEC recommendation for dismissal or probation. The process allows for the student and an advocate of the student, e.g. a Department Chair or other designated member of the COM faculty, to attend and have voice at the meeting of SPEC. Following the hearing, SPEC will render a decision on the appeal in a closed session with a majority vote of the SPEC members in attendance at the appeal. Recommendation to accept an appeal would then be forwarded to the Director of the Graduate Program and Senior Associate Dean of the COM for review. The Senior Associate Dean would be responsible for appealing further action to the Dean of the Graduate School. Additionally, it was noted that a student dissatisfied with an appeals decision rendered by SPEC can initiate an administrative appeals procedure as stipulated in the Graduate Bulletin, with the Senior Associate Dean serving as the final arbitrator for the COM. The Dean of the Graduate School has the authority to override previous decisions regarding the student's dismissal.

RECRUITMENT/FUNDING - proposed that a full-time recruiter be hired for the program. Due to proration and a hiring freeze, this cannot be accomplished in the near future. However, in addition to holding Open House, it was recommended that departments become more involved with making contacts with faculty at other possible 'feeder' institutions and that other 'feeder' programs such as ones promoting summer research be explored.
Also, the application and evaluation form for the graduate program were placed online on the College of Medicine Basic Medical Sciences Graduate Program website, which is linked to the University website.

Annual stipends for all BMS Graduate Students remain at $14,688.

Graduate faculty and students were encouraged to utilize the new Confocal Microscope in Dr. Hester’s core laboratory.

Two new courses for the Cancer Biology Interdepartmental Program were offered Fall, 2000. Several students enrolled in the seminar and biostatistics courses.

BMS students were given new BBL email accounts through the Biomedical Library, enabling the Graduate Office to simplify communication between the students and graduate office administration personnel.

**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 cookout 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, American Cancer Society Relay-for-Life in April, and collecting donations for the Mobile Aids Support Services in December.

**Graduates**

Three students officially graduated upon completing all requirements for the Ph.D. degree during September 2000-August, 2001. They are:

**Allison Williams Dobson**

**DISSEITATION TITLE:** "Functional Characterization of T-type Calcium Channels in Pancreatic Beta-Cells"

**MAJOR PROFESSOR:** Glenn Wilson, Ph.D.

**DEPARTMENT:** Cell Biology and Neuroscience

**CURRENT POSITION:** Post Doctoral Fellow; Wake Forest University
To date, 125 students have received their Ph.D. degree in Basic Medical Sciences. The breakdown of graduates by department is as follows:

<table>
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<th>Department</th>
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<tr>
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<td>Microbiology and Immunology</td>
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<tr>
<td>Pharmacology</td>
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<td>Physiology</td>
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<td>Structural/Cellular Biology-Cell Biology and Neuroscience</td>
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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 2000-2001 academic year, USA sponsored ten (10) residency programs, one (1) combined residency program, and five (5) medical subspecialty programs, for a total of over 200 residents and fellows.

All USA programs are currently fully accredited. Four programs underwent routine site visits by their Residency Review Committee (RRC) of the Accreditation Council for Graduate Medical Education (ACGME). One of these has received continuing accreditation, while the other three are awaiting their results.

The Graduate Medical Education Committee conducted an internal review (required by the ACGME half-way through the accreditation period on seven (7) 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. This process allows for a program to address, prior to the time of the RRC Site Visit, any deficiencies noted by the internal review. It also forces self-review by the program.

The ad hoc subcommittee for the development of a Core Curriculum is actively pursuing a viable method of assessing the residents' education in general competencies rather than having this accomplished by each program.

The Housestaff Policy and Procedure Manual and the Resident's Contract of Appointment were updated to comply with the new ACGME Institutional Requirements. The Housestaff Manual has been placed in .pdf format on the Residency Programs website for easy retrieval and update.

Sections of the Institutional Review Document were presented, when time allowed, for approval by the GME Committee in preparation for the Institutional Review by ACGME. This review is slated to occur in late 2001.
CONTINUING MEDICAL EDUCATION

In March 1999, the Accreditation Council for Continuing Medical Education (ACCME) awarded the Office of Continuing Medical Education full accreditation status for four years, with a progress report due in November 2000. After ACCME review of this report, our office was notified in April 2001, that we are in full compliance with the Essentials and Standards of the ACCME. We anticipate our next site visit in March 2003.

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 Office provided 440 hours of instruction to 388 physicians and 401 non-physician participants in ongoing and one-time events.
The University of South Alabama provides equal educational opportunities to and is open and accessible to all qualified students without regard to race, color, creed, national origin, sex, or qualified handicap/disability with respect to all of its programs and activities.