

Departments of Instruction

Department of Anesthesiology

The department offers a broad-based educational experience in the practice of anesthesiology and related disciplines. In addition to the traditional area of intraoperative care, emphasis is placed on preoperative patient evaluation and preparation and on postoperative management. Intensive experience is offered in both the outpatient and inpatient areas. The department accentuates management of the critically ill patient, acute and chronic pain management, and the role of hyperbaric medicine. Through clinical, classroom, and laboratory teaching, the program is designed to provide the student with the opportunity to combine a broad background in the basic sciences with the skills and judgment of clinical anesthesia. The student is exposed to research conferences, visiting professor lectures, and a broad-based didactic program that provides a varied and rich learning environment.

Professor and Chair

Arens, James, F., M.D.

Vice Chair and Professor

Butler, Bruce, Ph.D.
Warters, David, M.D.

Joseph C. Gabel, M.D. Chair and Professor

Drake, Robert E., Ph.D.

Roy M. and Phyllis Gough Huffington Distinguished Professor in Anesthesiology

Katz, Jeffrey, M.D.

Professors

Hagberg, Carin A., M.D.
Khalil, Samia, M.D.
Larson, Stephen M., D.M.D.

Associate Professors

Doursout, Marie F, Ph.D.
Fife, Caroline E., M.D.
Gebhard, Ralf, M.D.
Gottschalk, Lewis, M.D.
Koch, Stephen M., M.D.
Luehr, Susan L. M.D.
Matuszczak, Maria, M.D.
Novy, Diane, Ph.D.
Pivalizza, Evan, M.D.
Rabb, Mary, M.D.
Sciard, Didier, M.D.
Sheinbaum, Roy, M.D.
Szmuk, Peter, M.D.
Uzoni-Boecker, Catherine, M.D.

Assistant Professors

Abramson, Steven, M.D.
Adebayo, Gbadebo, M.D.
Bass, Barry, M.D.
Bogomolny, Yefim, M.D.
Doyle, Peter, M.D.
Ferrario, Lara, M.D.
Foster, Eric, M.D.
Friedman, Kyle, M.D.
Ghelber, Oscar, M.D.
Gilmore IV, Clarence E., M.D.
Henderson, Kimberly L., M.D.
Hoeffler, Heidi, M.D.
Ignacio, Craig, M.D.
Jain, Ranu, M.D.
Johnson, Sonya A., M.D.
Lam, Nick, M.D.
Maposa, Douglas, M.D.
Melnikov, Vladimir, M.D.
Missouri, Shairko, M.D.
Panthayi, Sreelatha, M.D.
Patil, Minakshi J., M.D.
Perez, Ibsen, M.D.
Price, Marilu, Ph.D.
Ranganathan, Govindaraj, M.D.
Ravindran, Poopulli, M.D.
Riha, Karel, M.D.
Rupasinghe, Madhu, M.D.
Schmitz, Bettina, M.D.

Smith, Latisha, M.D.
Su, Young, M.D.
Suarez-Mendoza, Alex, M.D.
Valderrama, Odette, M.D.
Vogt-Harenkamp, Christiane C. , M.D.
Zhou, Shao Feng, M.D.

Instructor

Amerman, Karen, CRNA
Borglund, Rory, CRNA
Smith, Thomas

Department of Biochemistry and Molecular Biology

The Department of Biochemistry and Molecular Biology (BMB) makes two major contributions to The University of Texas Medical School at Houston, namely, research and education. The Program in Biochemistry and Molecular Biology at the Graduate School of Biomedical Sciences is rooted in the BMB department.

Medical and graduate students benefit from our educational activities. First-year medical students and graduate students enjoy the comprehensive and contemporary course on biochemistry and molecular biology, which strongly emphasizes the relevance of the various topics to health and diseases. The course covers human biochemistry in sufficient but limited detail to help students appreciate its importance to medical education. Program faculty members provide extra help to the students during small group conferences throughout the duration of the course. Entering medical students may enroll in the summer pre-entry course designed to prepare them for the comprehensive biochemistry course. The department offers a remedial course to medical stu-

dents who receive a marginal pass in the biochemistry course. BMB faculty members also teach a problem-based learning course that is taken by second-year medical students.

BMB faculty members invest heavily in the education and research training aspects of graduate students. The medical biochemistry course, above, provides graduate students a solid foundation for their future careers in biomedical research. Members of the BMB faculty teach several courses designed specifically for graduate students, which attract numerous students from various programs of the Graduate School of Biomedical Sciences. The courses include "Topics in Biochemistry and Molecular Biology", "Current Methods in Molecular Research," and "Seminars and Literature Study." The weekly seminar series provides students the opportunity to listen to, learn from, and meet with prominent scientists from around the world. Weekly research workshops provide important training to program students and postdoctoral fellows. During the workshops, trainees communicate their research findings and receive critical feedback, which helps guide their research activities.

A large effort is extended by BMB faculty in the area of basic science research. BMB faculty members are engaged in well-funded biomedical research activities of high significance. These research activities provide an atmosphere of discovery and learning that energizes graduate, medical, and summer students alike. Research findings of the faculty and their trainees are published in peer-reviewed high-impact journals.

The department is home to two cen-

ters. Faculty members associated with the Structural Biology Research Center investigate the structural basis for function in biological molecules using sophisticated methods such as X-ray crystallography, nuclear magnetic resonance spectroscopy, and cryo-electron microscopy. These methods allow the determination of three-dimensional structures of macromolecules, such as proteins or macromolecular assemblies. Faculty members associated with the Center for Membrane Biology utilize multidisciplinary approaches to elucidate the molecular structure, function, and roles of biological membranes in normal and diseased cells.

Professor and Chair

Kellems, Rodney, Ph.D.

Professor Emeritus

DeMoss, John A., Ph.D.

John S. Dunn, Sr. Chair in Biochemistry and Molecular Biology and Professor

Dowhan, William, Ph.D.

Robert A. Welch Distinguished Chair in Chemistry and Professor

Spudich, John L., Ph.D.

Professors

Lever, Julia E., Ph.D.

Putkey, John, Ph.D.

Shyu, Ann-Bin, Ph.D.

Strobel, Henry W., Ph.D.

Associate Professors

Blackburn, Michael, Ph.D.

Lee, Cheng-Chi, Ph.D.

Levine, Alan E., Ph.D.

Penczek, Pawel A., Ph.D.

Ridge, Kevin, Ph.D.

Assistant Professors

Carpenter, Phillip, Ph.D.

Li, Renhao, Ph.D.

Raman, C.S., Ph.D.

Veeraraghavan, Sudha, Ph.D.

Xia, Yang, Ph.D.

Senior Lecturer

Seifert, William E., Ph.D.

Research Associate Professors

Bogdanov, Mikhail, Ph.D.

Chen, Chyi-Ying, Ph.D.

Marsh, Mary, Ph.D.

Research Assistant Professors

Baldwin, Phillip, Ph.D.

Lee, Dong-Sun, Ph.D.

Mileykovskaya, Eugenia, Ph.D.

Sasaki, Jun, Ph.D.

Research Instructors

Chen-Goodspeed, Misty, Ph.D.

Zhou, Cissy Chenyi, Ph.D.

Department of Cardiothoracic and Vascular Surgery

The Department of Cardiothoracic and Vascular Surgery consists of full-time and volunteer faculty. The activities of the department center on the care of patients with diseases of the cardiovascular system, including heart, aorta, and major vessels as well as lungs and other thoracic structures. The cardiac program includes adult and pediatric, and the vascular surgery program has a clinical focus on aortic (ascending arch and thoracoabdominal) aneurysm. These activities are focused at Memorial Hermann Hospital. Relationships also exist with the M. D. Anderson Cancer Center and the Texas Heart Institute.

The faculty of the department participates in the third-year surgery clerkship. Fourth-year medical students may choose electives in clinical or research areas. Research in the Medical School

laboratories comprises both basic and applied science investigations on the pathophysiology of major vascular and cardiac disorders.

Professor and Chair

Safi, Hazim J., M.D., F.A.C.S.

Professor

Allen, Bradley S., M.D.

Associate Professors

Letsou, George V., M.D.

Miller, Charles C. III, Ph.D.

Assistant Professors

Azizzadeh, Ali, M.D.

Estrera, Anthony L., M.D.

Huynh, Tam T., M.D.

Porat, Eyal E., M.D.

Department of Dermatology

The Department of Dermatology provides medical students and residents with a comprehensive approach, addressing disorders of the skin, hair, and nails. Special areas of expertise include immunodermatology, pediatric dermatology, dermatological oncology, cutaneous surgery (including Mohs surgery for difficult skin cancers), laser therapy, occupational dermatology, cosmetic dermatology, and cutaneous manifestations of internal disease. The department also maintains its own dermatopathology and immunopathology (immunofluorescence) testing services, receiving specimens from all over the United States. The lab is one of the busiest of this type at any of the universities in Texas. The department has an active basic and clinical research program. Training facilities currently include Memorial Hermann Hospital, M. D. Anderson Cancer Center, Lyndon B. Johnson

General Hospital, selected private offices of the volunteer faculty, and other clinical facilities outside the Texas Medical Center.

Senior medical students are offered electives in clinical dermatology and basic research, as well as specialized rotations set up on an individual basis. A three-year residency program in dermatology is offered. Electives are available for rotating residents from other specialties. Fellowship training opportunities also are available.

Professor and Chair (Joint Medical School and M. D. Anderson Cancer Center)

Rapini, Ronald P., M.D.

Professor and Deputy Chair (M. D. Anderson Cancer Center)

Duvic, Madeleine, M.D.

Jack S. Josey Professor in Dermatology and Professor

Jordon, Robert E., M.D.

Walter and Mary Mischer Professor in Molecular Medicine and Professor

Gigli, Irma, M.D.

Professors

Hebert, Adelaide A., M.D.

Rady, Peter L., M.D., Ph.D.

Associate Professors

Hymes, Sharon R., M.D.

Nguyen, Tri H., M.D.

Assistant Professors

Ali, Asra, M.D.

Mays, Steven R., M.D.

Clinical Professors

Tucker, Stephen B., M.D.

Tyring, Stephen K., M.D., Ph.D.

Instructor

Elliott, Rhea, F.N.P.

Faculty at M.D. Anderson Cancer Center

Associate Professor

MacFarlane, Deborah F., M.D.

Assistant Professors

Chon, Susan, M.D.

Hazarika, Parul, Ph.D.

Nash, Jennifer, M.D.

Instructors

Ni, Xiao, M.D., Ph.D.

Zhang, Chun-Lei, M.D., Ph.D.

Talpur, Rakhshandra, M.D.

Department of Diagnostic and Interventional Imaging

Clinical diagnostic imaging is stressed at all levels of training with particular emphasis on correlative exercises with other clinical and basic science programs. During the first academic year, normal radiographic anatomy is an integral component of gross anatomy. At the end of the second year, prior to the beginning of clinical clerkships, a one-week concentrated course in diagnostic imaging is included in the core curriculum.

Clinical electives of four weeks or more are available to third- and fourth-year students. These emphasize radiologic techniques, indications, and contraindications for various procedures and the fundamentals of diagnostic imaging and intervention. Teaching methods include formal lectures, self-instruction by means of permanent teaching files and programmed lectures, staff and student seminars, and participation in the various subspecialty areas in radiology. Many of the faculty actively participate in teaching conferences of the core clerkships.

The faculty and facilities of the department provide instruction and training in all contemporary imaging modalities, including nuclear radiology, ultrasound, computed tomography, angiography, magnetic resonance imaging, and spectroscopy, and diagnostic and therapeutic interventional procedures.

Clinical radiation therapy is provided through the faculty and facilities at M. D. Anderson Cancer Center and is a specialty separate from diagnostic radiology. This service affords experience in the evaluation, care, treatment, and follow-up of cancer patients treated with ionizing radiation either alone, or in conjunction with other modalities.

Special clinical and basic science electives are available for qualified students at any level of training. Arrangements can be made by contacting Lea Roberts in the department's Education Program Office at 713-500-7643.

John S. Dunn, Sr. Distinguished Chair in Radiology and Professor and Chair

John, Susan D., M.D

Professors

Barron, Bruce J., M.D.

Cacayorin, Edwin D., M.D.

Cohen, Alan M., M.D.

Goldman, Stanford M., M.D.

Kramer, Larry A., M.D.

Narayana, Ponnada, A., Ph.D.

Oldham, Sandra A., M.D.

Ophir, Jonathan, Ph.D.

Raval, Bharat, M.D.

Robinson, Lawrence H., M.D.

Wagner, Louis K., Ph.D.

Associate Professors

Chen, Phebe C., M.D.

Guthrie, Agnes M., M.D.

Hochhauser, Leo, M.D.

Mercado-Deane, Maria-Gisela, M.D.

Redwine, M. Dwain, M.D.

West, O. Clark, M.D.

Assistant Professors

Bilow, Ronald M., M.D.

Bodagala, Siva R., M.D.

Bonner, Marian E., M.D.

Censullo, Michael L., M.D.

Chandrasekhar, Chitra, M.D.

Hasan, Khader, Ph.D.

He, Renjie, Ph.D.

Hou, Ping, Ph.D.

Ingram, LaVerne D., M.D.

Joseph, Usha, M.D.

Kaminsky, Stephen, M.D.

Kirby-Noble, Valerie, M.D.

Pinero, Susan, M.D.

Scheinbaum, Karen R., M.D.

Sitton, Clark W., M.D.

Spangler, H. Burton, M.D.

Weir, Raymond U., M.D.

Zelitt, David L., M.D.

Instructors

Fang, Bing, M.S.

Jarolimek, Amanda, M.D.

Senior Lecturer

Shepherd, William D., M.S.

M. D. Anderson Faculty Professors

Bedi, Deepak, M.D.

Charnsangavej, Chusilp (Chang Arthur), M.D.

Chasen, Marvin H., M.D.

Dempsey, Peter J., M.D.

DuBrow, Ronelle A., M.D.

Eftekhari, Farzin, M.D.

Fornage, Bruno D., M.D.

Hicks, Marshall, M.D.

Kim, E.E., M.D.

Kumar, Ashok J., M.D.

Leeds, Norman E., M.D.

Madewell, John E., M.D.

Murphy, William A., Jr., M.D.

Parulekar, Suhas G., M.D.

Paulus, David D., Jr., M.D.

Podoloff, Donald A., M.D.

Samuels, Barry I., M.D.

Sandler, Carl M., M.D.

Silverman, Paul, M.D.

Stelling, Carol B., M.D.

Varma, Datla G.K., M.D.

Associate Professors

Choi, Haesun, M.D.

Cody, Dianna, Ph.D.

David, Cynthia L., M.D.

Dunnington, Joel S., M.D.

Edeiken-Monroe, Beth S., M.D.

Erasmus, Jeremy, M.D.

Jacobson, Marc J., M.D.

Ginsberg, Lawrence E., M.D.

Hazle, John, Ph.D., M.S., B.S.

Iyer, Revathy B., M.D.

Jackson, Edward F., Ph.D.

Loyer, Evelyne, M.D.

Macapinlac, Homer A., M.D.

Matamoros, Aurelio, Jr., M.D.

McEnery, Kevin, M.D.

Munden, Reginald, D.M.D., M.D.

Schomer, Donald F., M.D.

Wallace, Michael, M.D.

Whitman, Gary J., M.D.

Wong, Franklin C., M.D., J.D., Ph.D., M.S.

Assistant Professors

Ahrar, Kamran, M.D.

Arribas, Elsa, M.D.

Costello, Colleen, M.D.

Dryden, Mark, M.D.

Gayed, Isis, M.D.

Gladish, Gregory, M.D.

Gupta, Sanjay, M.D.

Kaur, Harmeet, M.D.

Kushwaha, Anne C., M.D.

Lano, Elizabeth, M.D.

Madoff, David, M.D.

McRae, Stephen, M.D.

Morello, William A., Jr., M.D.

Murthy, Ravi, M.D.

Ng, Chaan, M.D.
Sabloff, Bradely, M.D.
Selinko, Veronica, M.D.
Stephens, Tanya, M.D.
Szlaruk, Janio, M.D.
Tamm, Eric P, M.D.
Truong, Mylene, M.D.
Yang, Wei Tse, M.B.B.S.

Department of Emergency Medicine

The Emergency Medicine Department provides fourth-year students with an elective rotation in the emergency centers of Memorial Hermann Hospital and Lyndon B. Johnson General Hospital. There is a separate clinical clerkship for Memorial Hermann (EMER 4001) and for LBJ (EMER 4004).

The clinical activities of the rotation are monitored by the department's faculty and house staff. The Memorial Hermann Emergency Center (EC) offers clinical experience typical of a large private institution and has the advantage of being a Level I Trauma Center. Memorial Hermann Hospital also has Life Flight, one of the oldest and busiest emergency medical air transport helicopter services in the country. The current patient volume seen at the Memorial Hermann EC approximates 61,000 patients per year.

The emergency center at LBJ Hospital is representative of the busy public EC found in many metropolitan areas. The annual census is more than 80,000. This hospital's patient population is typical of the underserved indigent populations across the country.

During this rotation, students have the opportunity to work side by side with

emergency medicine faculty and residents from this and other major disciplines. The students interact with all of the consulting surgical and medical services. The rotation is designed to familiarize the students with the practice of emergency medicine with emphasis on the diagnosis and treatment of the wide spectrum of diseases commonly seen in emergency centers.

Professor and Chair

King, Brent R., M.D., F.A.C.E.P.

Associate Professor, Vice-Chair, and Research Director

Robinson, David J., M.D.

Assistant Professor and Residency Program Director

Reichman, Eric, Ph.D., M.D.

Assistant Professor and Assistant Residency Program Director

Oaks, JoAnne M.D.

Assistant Professor and Assistant Residency Program Director

McCarthy, James M.D.

Clinical Associate Professor and MHH Emergency Center Medical Director

Bradley, Richard N., M.D.

Assistant Professor and MHH Emergency Center Assistant Medical Director

Dubey, Swapan, M.D.

Assistant Professor and Medical Student Director

Takenaka, Kay Y., M.D.

Associate Professor and Pediatric Chief (LBJ and MHH)

Koerner, Christine, M.D.

Assistant Professor, Medical Director LBJ, EMS Medical Director HCHD

Charles, Ronald A., M.D.

Associate Professors

Weltge, Arlo, M.D.
Wilhelm, Ginger, M.D.

Assistant Professors

Atkuri, Lakshmi, M.D.
Awad, Sally H., M.D.
Buchmiller, Brett, M.D.
Cassidy, Crystal, M.D.
Chambers, Kimberly, M.D.
DeYbarrondo, Lisa M.D.
Feron, Deborah, D.O.
Filak, Christa, M.D.
Freeman, Lisa M.D.
Frazer, Kevin G., M.D.
Garza, Marco, M.D.
Grate, Issac Jr., M.D.
Hecht, Stephen, M.D.
Johnson, Laura, M.D.
Jones, Elizabeth B., M.D.
Kiss, George, M.D.
Leswing, Valeri, D.O.
Luna-Solorzano, Hortencia, M.D.
McCarthy, James J., M.D.
Nguyen, Phong, M.D.
Perez, Angel, M.D.
Press, Gregory, M.D.
Roldan, Carlos, M.D.
Sahai, Sunil, M.D.
Tran, Giang, M.D.
Williams, Robin, M.D.

Department of Family and Community Medicine

The Department of Family and Community Medicine provides opportunities for students and residents to acquire the knowledge, attitudes, and skills necessary for the practice of family medicine. Training is provided in the full range of primary care skills in both ambulatory and inpatient settings.

Training facilities currently include Me-

morial Hermann Hospital, Lyndon B. Johnson (LBJ) General Hospital, the UTP Center for Family Medicine, the Acres Home Community Health Center, and the Aldine Community Health Center. The department, which has faculty at 11 sites in the Houston area, provides medical staffing for five community health centers owned and operated by the Harris County Hospital District. All of these sites are utilized for medical student education.

The department administers the required third-year clerkship in Family Medicine and a required fourth-year preceptorship in Family Medicine. The department offers multiple electives.

The department also administers The UT-Houston Family Medicine Residency Training Program. In addition, the department maintains a relationship with the Memorial Hermann Southwest Residency Training Program, the San Jacinto Methodist Hospital Residency Training Program, and the St. Joseph's Hospital Family Practice Residency Training Program. These residency programs offer training in the full scope of clinical activities that prepare graduates for practice in both rural and urban settings.

The department is actively involved in research and scholarly activity at its multiple sites. The department offers a two-year Primary Care Fellowship, which includes either a Masters in Public Health or a Master of Science in Clinical Research.

The C. Frank Webber Chair in Family Medicine, Professor and Chair

Moreno, Carlos A., M.D., M.S.P.H.

Professor and Vice Chair

Fowler, Grant, M.D.

Professor and Vice Chair for Educational Affairs

Nieman, Linda Z., Ph.D.

Associate Professor and Director, Predoctoral Education Program

Bedford, Joseph A., M.D.

Associate Professor and Director of Research Program

Groff, Janet, M.D., M.S.P.H., Ph.D.

Assistant Professor and Director, UT Family Medicine Residency Program

Dumas, Carlos A., M.D.

Assistant Professor and Medical Director, UTH Center for Family Medicine

Adeyinka, Olasunkanmi, M.D.

Assistant Professor and Director, Urban Family Medicine Program

Bayona, Jose, M.D.

Assistant Professor and Chief of Service, Family Medicine Inpatient Service at Lyndon B. Johnson General Hospital

Ojeih, Chris, M.D.

Assistant Professor and Medical Director, West Loop Clinic

Vasudevan, Deepa, M.D.

Assistant Professor and Medical Director, Correctional Medicine

Seale, Michael M., M.D.

Assistant Professor and Medical Director, Acres Home Community Health Center

Butcher, Larry, M.D.

Assistant Professor and Medical Director, Aldine Community Health Center

Mallela, Vijaya, M.D.

Assistant Professor and Medical Director, E.A. (Squatty) Lyons

Community Health Center

Srinivasamurthy, Nagaraja, M.D.

Assistant Professor and Medical Director, Settegast Community Health Center

Winter, Ronald, M.D.

Assistant Professor and Medical Director, Baytown Community Health Center

Zare, Mohammed, M.D.

John P. McGovern, M.D., Professor of Oslerian Medicine

Boutwell, Bryant, Dr.PH.

Professor

Becan-McBride, Kathleen, Ed.D.

Associate Professors

Goodrich, Thelma Jean, Ph.D.

Tan, Robert S., M.D., M.B.A., C.M.D.

Velasquez, Mary, Ph.D.

Assistant Professors

Altman, Michael, M.D.

Butler, Kymberly, M.D.

Cheng, Lee, Ph.D., M.D.

Dancel, Marietta, M.D.

Goldbaum, Stephanie, M.D.

Hasan, Aziza, M.D.

Lee, Yates, M.D.

Nuruddin, Zakia, M.D.

Olagundoye, Olasupo M.D.

Parikh, Mihir, M.D.

Roman, Rocio, M.D.

Sidhu, Gurnaib, M.D.

Singhal, Nita, M.D.

Terrill, Louise Ann, M.D.

Wang, Yun, M.D.

Whiting, Carman Hall, M.D.

Instructor

Khan, Farheen, M.D.

Kosuri, Murali, M.D.

Miller, Jana, M.D.

Nashed-Guirguis, Heidi, M.D.

Nguyen, Phuc D., M.D.

Nguyen, Phuc X., M.D.
Olutimehin, Omobolaji, M.D.
Ridge, LaResa, M.D.
Toma, Maged, M.D.
Tompkins, Bryan, M.D.
Tower, Terah, M.D.

Department of Integrative Biology and Pharmacology

The teaching programs are designed to provide students with opportunities to obtain knowledge in the areas of physiology and pharmacology. Courses are offered to medical students in the first year of the curriculum in mammalian physiology and in the second year of the curriculum in pharmacology. The department also participates in graduate courses offered through the UT Graduate School of Biomedical Sciences.

An important aspect of the educational mission for the department is to provide research training for medical students, graduate students, undergraduate summer students, postdoctoral students, and fellows. The department has active areas of research and training opportunities in many areas of regulatory biology and cell signaling, including membrane physiology, neurobiology, hormonal regulation, growth factors, neurotransmitters, and muscle adaptation.

Professor and Interim Chair

Weisbrodt, Norman W., Ph.D.

H. Wayne Hightower Distinguished Professor in the Medical Sciences, Fondren Chair in Cellular Signaling

Schultz, Stanley, M.D.

Professors

Cabral, Fernando, Ph.D.

Castro, Gilbert A., Ph.D.
Chan, Jarvis, D.D.S., Ph.D.
Clark, Richard B., Ph.D.
Davies, Peter J.A., M.D., Ph.D.
Dubinsky, William P., Jr., Ph.D.
Hutchins, Max, Ph.D.
Lichtenberger, Lenard M., Ph.D.
McMahon, John, Ph.D.
Montgomery, Edward H., Ph.D.
O'Neil, Roger G., Ph.D.
Pate, Theodore, Ph.D.
Radomski, Marek, Ph.D., M.D.
Rosenfeld, Gary C., Ph.D.
Schonbrunn, Agnes, Ph.D.
Stancel, George M., Ph.D.
Walters, Edgar T., Ph.D.
Zachariasen, Rita, Ph.D.

Associate Professors

Barber, Roger, Ph.D.
Dessauer, Carmen, Ph.D.
Dial, Elizabeth, J., Ph.D.
Kirken, Robert, Ph.D.
Knutson, Victoria P., Ph.D.
Loose, David S., Ph.D.
Morris, Andrew, Ph.D.
Tcholakian, Robert, Ph.D.
Weems, William A., Ph.D.

Assistant Professors

Bian, Ka, Ph.D.
Frost, Jeffrey, Ph.D.
Jayaraman, Vasanthi, Ph.D.
Martin, Emil, Ph.D.
Rich, Thomas, Ph.D.
Shiple, Gregory, Ph.D.
Turko, Illarion, Ph.D.

Instructors

Kots, Alexander, Ph.D.
Sharina, Iraida, Ph.D.

Department of Internal Medicine

The Department of Internal Medicine provides opportunities for students, house officers, and fellows to acquire training in the broad field of internal medicine and its subdisciplines. The training program is designed to include clinically enriching experiences in bedside internal medicine, ambulatory care, and contemplative exercises in which students, housestaff, and faculty can explore the pathophysiology of disease processes and the physiologic basis for clinical decision-making.

A faculty of physicians and laboratory investigators has been carefully chosen and cultivated to ensure that interests in general internal medicine, the subspecialties, and investigative aspects of the discipline are represented.

The educational programs of the department are housed at Memorial Hermann Hospital, Lyndon B. Johnson (LBJ) General Hospital, St. Luke's Episcopal Hospital/Texas Heart Institute, and The University of Texas M. D. Anderson Cancer Center. The junior student clerkship involves a three-month period during which medical students rotate at one-month intervals on each of three different medical services. There also is a mandatory internal medicine rotation in the senior year. The department offers a wide variety of clinical and/or tutorial electives, including inpatient services experiences, ambulatory care experiences, as well as a wide variety of subspecialty consultative experiences. Electives in research also are available in the various disciplines.

The housestaff training program in internal medicine is non-pyramidal. The

first of these three years, termed the PL-1 year, is devoted to experiences in general internal medicine and subspecialty services, ambulatory care experiences in the Emergency Center and Ambulatory Care Center, and critical care experiences in the intensive and coronary care units. The inpatient services are located in the Memorial Hermann Hospital, LBJ, St. Luke's/Texas Heart Institute and M. D. Anderson Cancer Center. In the remaining two years of the internal medicine training program, the PL-2 and PL-3 residents spend time on consultative services in the subspecialties, in addition to further rotations on hospital inpatient services.

Combined internal medicine/pediatrics residency training is a four-year program, with six months of each year spent in internal medicine and the other six months in pediatrics. On completion of this training program, one is board-eligible in both fields.

The James T. and Nancy B. Willerson Chair, Professor and Chair

Kone, Bruce C., M.D.

Vice Chair for Clinical Affairs

Finkel, Kevin, M.D.

Vice Chair for Research

Murray, Barbara, M.D.

Vice Chair for Education

Orlander, Philip, M.D.

Residency Training Directors

Farnie, Mark, M.D., Director

Finkel, Kevin, M.D., Co-Director

Boisubin, Eugene, M.D., (Co-Director)

Professor

Fred, Herbert, M.D.

Division of Cardiology

The Division of Cardiology provides medical students, residents, and fellows with the opportunity to acquire comprehensive clinical training and to carry out both basic and clinical cardiovascular research. Emphasis is placed on new ideas and approaches to experimental and clinical problems, particularly those involving prevention, advanced technology, and acute care.

Division facilities include five advanced cardiac catheterization and electrophysiology laboratories; a center for statistical programs and core angiographic image processing; an angiographic animal laboratory; three animal physiology laboratories; extensive metabolic, biochemistry, and molecular biology research laboratories; electronic and mechanical shops; a 17-bed coronary-care unit at Memorial Hermann Hospital; a 56-bed intermediate unit and dedicated cardiovascular ward service; a non-invasive diagnostic imaging laboratory at Memorial Hermann Hospital; a Center for Cardiovascular Medicine, with outpatient echo, nuclear, and peripheral vascular labs; and a major positron imaging facility, that features a cyclotron, positron cameras, and laboratories. The faculty practice and teach clinical diagnosis and management of problems such as heart failure, coronary heart disease, arrhythmias, valvular disease, cardiogenic shock, congenital cardiac disease in the adult, and peripheral vascular disease. Some special procedures such as the use of the Swan Ganz catheters and Holter monitoring are introduced. An important part of training is integrating technology with the art of general medicine and the role of subspecialty consultation for such procedures as cardiac

catheterization, exercise testing, radio-nuclide LV function studies, and cardiac surgery, and understanding their risks, costs, and benefits.

The division is staffed with M.D.'s and/or Ph.D.'s whose interests cover the full range of clinical and research cardiology, including catheterization, electrophysiology, critical care, noninvasive care and monitoring, nuclear cardiology, bedside and outpatient care, radiochemistry and cardiovascular physiology, biochemistry, molecular biology, and clinical epidemiology.

Our interventional cardiologists treat all aspects of coronary artery disease, peripheral vascular disease and valvular heart disease. They have extensive experience in percutaneous ASD and PFO closure, carotid stenting, and endovascular AAA repair.

Our electrophysiologists perform all aspects of interventional electrophysiology, including accessory pathway ablation, pulmonary vein isolation for AFIB, AICD, pacemaker, and resynchronization pacemaker implants.

Jay Brent Sterling Professor in Cardiovascular Medicine, and Interim Division Director

Smalling, Richard W., M.D., Ph.D.

John Edward Tyson Distinguished Professor of Medicine (Cardiology) and Public Health Vice President for Biotechnology

Casscells, S. Ward, M.D.

Theodore R. and Maureen O'Driscoll Levy Professor in Cardiology

Fuentes, Francisco, M.D.

Martin Bucksham Distinguished University Chair, Professor of Cardiovascular Medicine and

**Executive Director, Weatherhead
P.E.T. Center for Preventing and
Reversing Atherosclerosis**

Gould, K. Lance, M.D.

**Alkek Williams Distinguished
Professor and Edward Randall, III
Chair in Internal Medicine**

Willerson, James T., M.D.

Professor and Co-Director Research

Taegtmeier, Heinrich, M.D., Ph.D.

Professors

Anderson, H. Vernon, M.D.

Bungo, Michael W., M.D.

Dougherty, Anne H., M.D.

Overturf, Merrill L., Ph.D.

Associate Professors

Fujise, Kenichi, M.D.

Geng, Yong-Jian M.D., Ph.D.

Kirkeeide, Richard L. Ph.D.

Assistant Professors

Aguilar, David, M.D.

Cid, Emma, M.D.

Denktas, Ali, M.D.

Engler, David A., Ph.D.

Hung, Rebecca, M.D.,

Loghin, Catalin, M.D.

Sdringola, Stefano, M.D.

Zoldhelyi, Pierre, M.D.

**Division of Endocrinology, Diabetes
and Metabolism**

The Division of Endocrinology, Diabetes, and Metabolism offers comprehensive training in the areas of diabetes mellitus, reproductive endocrinology, thyroid disorders, calcium and bone metabolism, pituitary abnormalities, as well as other endocrine disorders. A major focus of the research program is in the area of diabetes mellitus.

Students and residents rotate through

our consultative services at the Memorial Hermann Hospital and the Lyndon B. Johnson General Hospital, in addition to the clinics. Ambulatory teaching at the endocrine clinics is an integral part of the clinical elective and is conducted at the UT Endocrinology and Diabetes Clinic in the UT Professional Building and in the Harris County Endocrinology and Diabetes Clinic at LBJ Hospital. The LBJ clinic is on a referral basis from the community clinics and includes a substantial number of patients with thyroid disorders and neoplasms. A tutorial on diabetes management and insulin administration is available on our Web site and is part of the elective. There are several weekly conferences; Multidisciplinary clinical case conference with pediatric endocrinology, reproductive endocrinology, OB-GYN, a weekly journal club, and a weekly citywide conference including faculty from Baylor, UT M. D. Anderson Cancer Center, and surrounding institutions. There also is a weekly seminar specifically for the students and residents on reproductive endocrinology.

Research opportunities include the use of the University Clinical Research Center at Memorial Hermann Hospital for metabolic studies, basic molecular research and clinical studies, ovulatory dysfunction, and the prevention of complications in patients with diabetes mellitus. Clinical and epidemiologic research of diabetes is conducted in collaboration with faculty at The University of Texas School of Public Health.

The division offers a two-year fellowship in Endocrinology, Diabetes and Metabolism which includes rotations at the UTM. D. Anderson Cancer Center, pediatric endocrinology, reproductive endo-

crinology, and nuclear medicine. There is opportunity for extensive experience with insulin pump therapy and intensive insulin management in the inpatient and outpatient setting.

Professor and Division Director

Orlander, Philip, M.D.

Professors

Lavis, Victor, M.D.

Nader-Eftekhari, Shahla, M.D.

Assistant Professor

Boccalandro, Cristina, M.D.

**Division of Gastroenterology,
Hepatology and Nutrition**

The Division of Gastroenterology, Hepatology and Nutrition provides clinical training opportunities for medical students, house staff, and fellows at both Memorial Hermann and LBJ hospitals. Members of the consult team at either institution encounter a wide variety of primary or associated gastrointestinal diseases and develop diagnostic and therapeutic options for individual patients through a series of rounds and teaching conferences.

The introduction of video endoscopy provides students and house staff with an enhanced ability to correlate specific endoscopic findings with clinical and laboratory abnormalities. An active Hepatology/Liver Transplant service allows students and housestaff to participate in the diagnosis and therapy of complex liver diseases. Educational emphasis is placed on integrating the clinical, diagnostic, and therapeutic capabilities of the gastroenterologist into the overall care of the patient, with development of an appreciation of the skills and judgment required for prudent use of the

array of various diagnostic procedures available.

A series of weekly clinical, radiology, physiology, and pathology conferences allows for the development of strong theoretical background and supplements the clinical experiences in the service. In addition, residents have the opportunity to perform diagnostic procedures such as flexible sigmoidoscopy under direct staff supervision.

The gastroenterology fellowship training program is integrated with M. D. Anderson Cancer Center. Clinical training for the fellows involves the development of cognitive, diagnostic, and therapeutic skills involved in the practice of gastroenterology and hepatology. Both clinical and basic research opportunities are provided, with particular emphasis on intestinal function that includes problems of diarrhea, intestinal motility, fluid and electrolyte transport, and carcinogenesis. Additional research opportunities are available in clinical hepatology/transplant and nutrition.

**Professor and Division Director
Dan and Lillie Sterling Professorship
in Clinical Gastroenterology
and Professor**

Le Sage, Gene, M.D.

Professor

Scott, Larry D., M.D.

Associate Professors

Baruch, Yaacov, M.D.

Botero, R. Claudino, M.D.

Edwards, Marilyn, Ph.D.

Assistant Professors

Adler, Douglas G., M.D.

Clark, Cinda H., D.S.N., N.P.

Gagliardi, Michael, M.D.

Seyendain, Maryam, M.D.

Instructor

Xia, Xuefeng, M.D.

Division of General Medicine

The Division of General Medicine has an active program involving teaching, patient care, and research. A major responsibility of the division is clinical care, which includes teaching ambulatory care at any of 10 ambulatory clinic sites. Division faculty also are involved in HIV care and teaching at the Thomas Street AIDS Clinic, a facility of the Harris County Hospital District. Activities at Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, and the Harris County Psychiatric Center include supervision of a general medicine consultation service and participation on several inpatient ward services throughout the year.

Training of house officers and medical students is a priority of the division. House officers are assigned to the ambulatory care services. Additionally, each house officer meets weekly with a panel of patients and follows this group of patients throughout the training program. All ambulatory clinic activities are supervised by full-time faculty who provide an active, multi-disciplinary teaching program. The opportunity to acquire a formal education is provided by all inpatient ward teams, and a consult service staffed by full-time attending faculty and house officers provides consultation to all specialty groups within the hospital.

Research activities of the division focus on safety and access to health care by adults, including marginalized populations. The faculty of General Medicine have several NIH-sponsored grants in

patient safety, the bioethics of informed consent for colon cancer screening the use of the Internet for preventive health services, and the study of pathogenesis of Mycobacteria tuberculosis. Other research efforts include the validity of data on the Internet, HIV treatment and compliance, and traveler's diarrhea. Several faculty are involved in research in the area of teaching medical students and residents.

The faculty of the Division of General Medicine are dedicated to providing excellent training programs. It participates with the Department of Pediatrics and Family and Community Medicine in the Joint Primary Care Fellowship, which affords participants an opportunity to take courses at the UT School of Public Health for a Master's of Public Health degree.

Professor and Division Director

Johnson, Philip C., M.D.

Professors

Ahn, Chul, Ph.D.

Smythe, Cheves McC., M.D.

Associate Professors

Colletti, Laura A., M.D.

Farnie, Mark, M.D.

Thomas, Eric, M.D.

Assistant Professors

Bhattacharjee, Modushudan, M.D.

Bernstam, Elmer, M.D.

Boisaubin, Eugene, M.D.

Chan, Evelyn C. Y., M.D.

Faustinella, Fabrizia, M.D.

Gardiner, Carolyn, M.D.

Hardwicke, Robin, AACRN, FNP, Ph.D.

Krucke, Gus, M.D.

Lux, Thomas, M.D.

Mehta, Niraj, M.D.

Puig, Alberto, M.D., Ph.D.

Shulman, Edie, M.D.

White, Janeana, M.D.

Instructor

Catalano, Janine, F.N.P.

Division of Hematology

The Division of Hematology's major academic goal is to promote the understanding of a wide scope of hematological diseases. The diagnosis and management of these diseases require a broadly based knowledge in bone marrow physiology and biochemistry, tumor cell growth, hemostasis and thrombosis, red blood cell and hemoglobin molecular biology, and immunology. The division has developed good collaboration with the departments of Pathology and Laboratory Medicine and Integrative Biology and Pharmacology in the Medical School and M. D. Anderson Cancer Center. The interactions enhance research, teaching, and patient activities.

The division provides both inpatient and ambulatory care services. It provides consultation services at Memorial Hermann and LBJ hospitals and M. D. Anderson Cancer Center.

The Gulf States Hemophilia Diagnostic and Treatment Center is operated under the direction of this division. The Special Hemostasis Laboratory performs platelet aggregation and adhesiveness studies, clotting factor and complement component assays, and platelet antibody tests.

The division has developed strong, cohesive NIH-supported research programs focusing on cell and molecular biology of prostaglandin and nitric oxide synthase and protein chemistry and structure biology of synthetic enzymes. These basic investigations have greatly

enhanced the understanding of endothelial cell and blood cell functions. The research program has been recognized nationally as a center of excellence. The division houses the Central Hemostasis Laboratory of the ARIC study sponsored by the National Heart, Lung and Blood Institute of NIH. This laboratory has contributed significantly to the hemostatic and genetic risk factors of arterial and venous thrombosis.

The division works closely with the Vascular Biology Research Center at the Medical School and the Institute of Molecular Medicine in research and training programs.

Roy M. and Phyllis Gough Huffington Chair in Gerontology, Professor and Division Director

Wu, Kenneth K., M.D., Ph.D.

Professors

Juneja, Harinder, M.D.

Kulmacz, Richard, Ph.D.

Tsai, Ah-Lim, Ph.D.

Associate Professor

Wang, Lee-Ho, Ph.D.

Assistant Professors

Chen, Pei-Feng, Ph.D.

Escobar, Miguel, M.D.

Matijevic-Aleksic, Nevenka, Ph.D.

Ruan, Ke He, M.D., Ph.D.

Instructor

Liou, Jun-Yang, Ph.D.

Division of Infectious Diseases

Division faculty members provide medical students and house staff with the opportunity to obtain information on basic microbiology, diagnostic bacteriology and virology, appropriate use of antimicrobial agents, host factors im-

portant to pathogenesis of infection, clinical diagnosis of infectious illness, and infection control procedures in the prevention of nosocomial infections. A regular medical student/house staff conference is conducted to provide the opportunity to acquire the principles of diagnosis of infectious diseases.

A busy consultative service has been established at Memorial Hermann Hospital and Lyndon B. Johnson General Hospital where a fellow in infectious diseases, medical residents, and often fourth-year medical students make up a team under the direction of one of the faculty members.

**Professor and Division Director
J. Ralph Meadows Professor in
Internal Medicine**

Murray, Barbara E., M.D.

**Professor and Head, Clinical
Infectious Diseases**

Ericsson, Charles D., M.D.

**Mary Wilson Kelsey Professor in the
Medical Sciences**

DuPont, Herbert L., M.D.

Professor

Okhuysen, Pablo, M.D.

Associate Professors

Arduino, Roberto C., M.D.

Assistant Professors

Barnett, Ben J., M.D.

Ostrosky-Zeichner, Luis, M.D.

Singh, Kavindra, Ph.D.

Instructors

McCormack, Owen, D.O.

Mohr, John, Pharm.D.

Nallapareddy, Sreedhar, Ph.D.

Division of Medical Genetics

The division's program provides medical students and house staff exposure to the rapidly expanding field of human genetic diseases. Clinical services focus on diagnosing genetic diseases, genetic counseling, and prenatal/presymptomatic diagnosis of genetic disorders. Clinical training is provided through consult services at Memorial Hermann and outpatient clinics. Clinical and basic research opportunities are available in the field of cardiovascular genetic diseases and other areas. Teaching conferences are held two times a week in conjunction with the medical genetics program of the Department of Pediatrics and M. D. Anderson Cancer Center.

Professor and Division Director

Milewicz, Dianna, M.D., Ph.D.

Assistant Professors

Guo, Dongchuan, Ph.D.

King, Terri, Ph.D.

Instructor

Tran, Van T., M.S.

Division of Oncology

The academic goals of the division are to teach the epidemiology of, and how to prevent, screen, diagnose, and treat cancer. The aim is to teach excellence in medicine and medical care by demonstrating cancer biology as well as an empathetic and humanistic approach toward patients as critical components of cancer care to both medical students and house officers. Instruction is both didactic and practical to demonstrate the fundamentals of diagnosis and care of patients with cancer. Common solid malignancies (lung, colon, breast and prostate cancer) are emphasized utiliz-

ing a multimodality approach.

The research focuses on cellular and molecular biology, biochemistry, pharmacology and pathology, surgery, radiotherapy, immunology and the supporting roles of radiology, neurology, psychiatry, and ancillary care in the treatment of patients with cancer. Molecular biology and genomics are emphasized as the basis of cancer diagnosis and care. The division's own work in hyperthermic biology and treatment of cancer is present.

The division is an integral part of the Medical School's Department of Internal Medicine and collaborates regularly with the Departments of Integrative Biology and Pharmacology, Surgery, Radiology, and Pathology, as well as the Clinical Research Center. The Division of Oncology also is closely integrated with the Division of Medicine at the M. D. Anderson Cancer Center and works closely with MDACC's Divisions of Radiation Therapy, Surgery, and the Departments of Biomathematics and Cellular Biology. These rich interactions greatly enhance the research, teaching, and patient-care activities.

The Division of Oncology provides both inpatient, consultation, and ambulatory care services at Memorial Hermann Hospital as well as patient services at the Division of Cancer Medicine at M. D. Anderson Cancer Center.

Professor and Division Director

Bull, Joan M.C., M.D.

Adjunct Assistant Professor

Rowe-Horwege, Ruth W., Ph.D.

Division of Pulmonary and Critical Care Medicine

The teaching program of the Division of Pulmonary and Critical Care Medicine provides opportunities for students, house staff, and fellows to acquire education in the basic and clinical aspects of respiratory and critical care and sleep medicine. Emphasis is placed on pathophysiology, respiratory therapy, intensive respiratory care, pulmonary function testing, exercise testing, polysomnography diagnostic techniques, and the clinical approach to disease.

Student instruction begins during the second academic year in the mechanisms of disease course. Fourth-year electives are offered at affiliated hospitals. A separate clinical clerkship is offered in sleep medicine. A tutorial laboratory elective also is available.

Professor and Division Director

Castriotta, Richard, M.D.

Professors

Bidani, Akhil, M.D., Ph.D.

Associate Professor

Lodato, Robert F., M.D., Ph.D.

Assistant Professors

Estrada-Y-Martin, Rosa Maria, M.D.

Haque, Sajid, M.D.

Parsley, Ed., D.O.

Patel, Bela, M.D.

Instructor

Kasirajan, Priya, M.D.

Division of Renal Diseases and Hypertension

This division is organized to provide educational opportunities in the broad field of renal diseases and electrolyte

disturbances to both graduates and undergraduates. Clinical facilities and well-designed dialysis areas for acute and chronic hemodialysis and peritoneal dialysis are available in Memorial Hermann Hospital and PDI-Houston Dialysis units. Transplantation activities are carried out in conjunction with the Department of Surgery and its Division of Immunology and Organ Transplantation.

In addition to providing didactic material for both undergraduate and house officers, the division supports clinical activities in the M. D. Anderson Cancer Center, Lyndon B. Johnson General Hospital, and Memorial Hermann Hospital. Preceptorships are available to fourth-year students and house officers rotating through the service. The fellowship program offers postgraduate training in clinical nephrology and laboratory research. Graduate and medical school student research opportunities are available.

**James T. and Nancy B. Willerson Chair,
Professor and Division Director**

Kone, Bruce, M.D.

Professors

Kahn, Andrew, M.D.

Molony, Donald, M.D.

Associate Professors

Dosekun, Akinsan, M.D.

Finkel, Kevin, M.D.

Guntupalli, Jayarama, M.D.

Assistant Professors

Foringer, John, M.D.

McDonald, Glenn, M.D.

Murthy, Bhamidipati V. R., M.D.

**Division of Rheumatology and
Clinical Immunogenetics**

This division emphasizes excellence in teaching, basic and clinical investigation, and patient care relevant to rheumatic and autoimmune diseases. Clinical and investigative training are available for students, house staff, and postdoctoral fellows. Full-time faculty participate in teaching and patient care activities in clinics in The University of Texas Health Science Center Professional Building, the LBJ hospital, the Thomas Street HIV Clinic, and the Internal Medicine Inpatient Services of Memorial Hermann and LBJ General hospitals.

Basic and clinical investigative interests focus on the multisystem rheumatic diseases, especially scleroderma, ankylosing spondylitis, systemic lupus erythematosus, Sjogren's syndrome, rheumatoid arthritis, polymyositis, sports medicine, and other types of arthritis. Genetic control of disease susceptibility, autoantibody production, and pathogenetic mechanisms, especially by the HLA and other genetic systems, is a major research interest and provides many projects, technologies, and collaborations for interested trainees.

**George S. Bruce, Jr. Professorship in
Arthritis and Other Rheumatic
Diseases, Professor and Division
Director**

Reveille, John D., M.D.

**Elizabeth Bidgood Chair in
Rheumatology Professor**

Arnett, Frank C., Jr., M.D.

Professor

Mayes, Maureen D., M.D., M.P.H.

Associate Professor

Tan, Filemon K., M.D., Ph.D.
Warner, Noranna M., M.D., Ph.D.

Assistant Professors

Wilson, Leslie P., M.D.
Zhou, Xiaodong, M.D.

**Department of Microbiology
and Molecular Genetics**

The objectives of this department are the teaching of how microorganisms interact with and respond to their environment at the molecular level. To pursue these objectives, the department faculty members are studying diverse microbial types by applying a molecular genetic/molecular biological focus to its research programs.

A first-year Medical School course is designed to offer the student the opportunity to develop a working knowledge of taxonomy, pathophysiology, and growth characteristics of bacteria, fungi, parasites, and viruses important to the diseases of man.

A series of cross-appointments with faculty in other departments, divisions, and units having an interest in the training of medical and graduate students is utilized including Biochemistry and Molecular Biology, Internal Medicine, Infectious Diseases, Pathology and Laboratory Medicine, and programs at M. D. Anderson Cancer Center.

Professor and Chair

Kaplan, Samuel, Ph.D.

Professor

Goldschmidt, Millicent E., Ph.D.

Associate Professors

Christie, Peter J., Ph.D.
Kaplan, Heidi B., Ph.D.
Koehler, Theresa M., Ph.D.
Margolin, William, Ph.D.

Assistant Professors

Garsin, Danielle, Ph.D.
Hereld, Dale, M.D., Ph.D.
Lorenz, Michael, Ph.D.
Morano, Kevin A., Ph.D.
Van Hoof, Ambro, Ph.D.

Instructors

Cox, Rebecca, Ph.D.

**Department of Neurobiology
and Anatomy**

The Department of Neurobiology and Anatomy provides educational research and training programs in the anatomical sciences and fundamental neurosciences.

Course offerings to first-year medical and graduate students include developmental anatomy, gross anatomy, and neuroscience. The neuroscience course presents an integrated study of the human nervous system and encompasses the disciplines of neuroanatomy, neurophysiology, neuropharmacology, neurochemistry, developmental neurobiology, neuroendocrinology, and neuropsychology. The department's courses in gross anatomy and developmental anatomy are designed to provide students with the opportunity to acquire a fundamental knowledge of the anatomical structure of the human body and its relevance to medicine, emphasizing, among other things, the relationship of structure to function. Each of the three first-year courses is enhanced by demonstrations of the practical application

of the material to clinical situations. The department participates in the elective program for medical students and in postgraduate seminars and presentations related to human morphology and the nervous system.

Laboratory electives in single or multidisciplinary areas are available to medical students and graduate students, as are special research projects and fellowships, either clinically related or directed toward basic science research. In addition, the department offers a seminar series as an integral part of its didactic program for both faculty and students. Faculty members of the department have diverse research programs in the neurosciences, but there is a particular focus on issues related to neuronal plasticity and learning and memory.

June and Virgil Waggoner Chair and Professor

Byrne, John H., Ph.D.

Levit Family Professor in the Neurosciences

Waymire, Jack C., Ph.D.

William M. Wheless, III Professor in Biomedical Sciences

Mauk, Michael D., Ph.D.

Professors

Crow, Terry, Ph.D.

Dash, Pramod, K. Ph.D.

Dafny, Nachum, Ph.D.

Gibson, Kathleen, Ph.D.

Marshak, David W., Ph.D.

Tsutchitani, Chiyeko, Ph.D.

Waxham, M. Neal, Ph.D.

Wright, Anthony, Ph.D.

Associate Professors

Baxter, Douglas, A., Ph.D.

Bean, Andrew, Ph.D.

Felleman, Daniel J., Ph.D.

Heidelberger, Ruth, M.D., Ph.D.

Lewis, Vahn, Ph.D.

Mong, Franz, Ph.D.

Sereno, Anne B., Ph.D.

Turner, Stewart, Ph.D.

Warner, Raymond, Ph.D.

Assistant Professors

Dragoi, Valentin, Ph.D.

Eagleman, David, Ph.D.

Janz, Roger, Ph.D.

Knierim, James, Ph.D.

Shouval, Harel, Ph.D.

Senior Lecturer

Cleary, Leonard J., Ph.D.

Lecturers

Rogers, Carla, Ph.D.

Zhang, Han, M.D.

Department of Neurology

The Department of Neurology is organized to provide medical education opportunities in clinical neurology at undergraduate, graduate, and postgraduate levels of training. The clinical facilities of Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, St. Luke's Episcopal Hospital, and M. D. Anderson Cancer Center are available for the care and study of a variety of acute and chronic neurological disorders. A four-week clerkship is required in the fourth year. Clinical experience is directed toward history-taking, physical and laboratory examinations in neurological disorders, and the management of neurological disorders such as stroke, epilepsy, multiple sclerosis, coma, muscle/nerve disorders, Parkinsonism, and dementia.

Fellowships are available in electrodiagnostics (EEG, EEG/video monitoring,

EMG, and evoked potentials), stroke, epilepsy, and neurovirology-neuroimmunology.

Kraft W. Eidman Professor in the Medical Sciences, and Professor and Chair

Ferrendelli, James A., M.D.

Adriana Blood Chair in Neurology, Vice Chair, and Director, Division of Child Neurology

Butler, Ian J., M.D.

Roy M. and Phyllis Gough Huffington Distinguished Chair in Neurology

Grotta, James C., M.D.

Roy M. and Phyllis Gough Huffington Chair in Neurology

Yatsu, Frank M., M.D.

Bartels Family Professor in Neurology

Wolinsky, Jerry S., M.D.

Professors

Brod, Staley A., M.D.

Van Horn, Gage, M.D.

Associate Professors

Aronowski, Jarek, Ph.D.

Dimachkie, Mazen M., M.D.

Lindsey, J. William, M.D.

Malkoff, Marc, M.D.

Mancias, Pedro, M.D.

Schiess, Mya C., M.D.

Assistant Professors

Alexandrov, Andrei, M.D., RVT

Choi, John Y., M.D.

Clarke, Dave F., M.D.

Pleitez, Milvia, M.D.

Wojner, Anne W. Ph.D.

Department of Neurosurgery

The Department of Neurosurgery is concerned with diagnosis and treat-

ment of conditions usually treated by surgical intervention on the brain, spinal cord, and peripheral nerves. As part of the fourth-year neurology/neurosurgery rotation, students participate with neurosurgeons in the operating room, at the bedside, and in outpatient activities. Emphasis is placed on information of general interest, such as neurological examination, management of acute head injury, care of patients who have abnormalities of the nervous system, and evaluation and management of patients with intractable pain. Students are given an opportunity to become familiar with and know how to recognize neurosurgery problems.

An elective period of study can be arranged for interested students who have adequate background to pursue more specific areas within the field of neurosurgery.

Professor and Chair

Vollmer, Dennis G., M.D.

Nancy, Clive and Pierce Runnells Distinguished Chair in Neurosurgery and Professor

Clifton, Guy L., M.D.

Professors

Papanicolaou, Andrew C., Ph.D.

Powner, David J., M.D.

Associate Professors

Breier Joshua I, Ph.D.,

Levine, Robert, M.D.

Assistant Professors

Alp, M. Serdar, M.D.

Billingsley-Marshall, Rebecca, Ph.D.

Castillo, Eduardo, Ph.D.

Crommett, John W., M.D.

Gormley, William, M.D.

Grill, Raymond, Ph.D.

Ivins, Jonathan, Ph.D.

Malik, Amir, M.D.
Mohanty, Aaron, M.D.
Redell, John B. Ph.D.
Sarkari, Shirin, Ph.D.
Tandon, Nitin, M.D.
Yu, Rong, Ph.D.

Department of Obstetrics, Gynecology and Reproductive Sciences

This department's primary purpose is the education of medical students, resident house staff, fellows, and practicing physicians in the broad areas of primary health care of women and reproductive biology. Educational programs, designed to integrate basic biologic tenets with clinical practice, are provided by a faculty with training in general obstetrics and gynecology, subspecialty training in maternal and fetal medicine, oncology, and reproductive mechanisms. The principles of maternal and fetal medicine, family planning and population control, medical and surgical gynecology, oncology, reproductive endocrinology and infertility, sexuality, and primary care for women are taught in the ambulatory care setting, in the classroom, and in the facilities of Memorial Hermann Hospital, Lyndon B. Johnson (LBJ) General Hospital, M. D. Anderson Cancer Center, St. Joseph Hospital, and Memorial Hermann Southwest Hospital.

The department is responsible for teaching reproductive biology, which is required for all second-year medical students. An eight-week clinical clerkship for third-year students is conducted. The department also offers a wide variety of electives to fourth-year students in clinical and laboratory investigative aspects of the specialty.

The department is responsible for two separate but integrated residency programs in obstetrics and gynecology. One program is based at Memorial Hermann Hospital and the other at LBJ Hospital. There are cross-rotations between these programs and experience is provided at M. D. Anderson and Memorial Hermann Southwest. A program of post-doctoral and fellowship training in maternal and fetal medicine is offered to qualified physicians. The department also offers, through the UT Graduate School of Biomedical Sciences, opportunities for study leading to advanced degrees in the reproductive sciences.

Emma Sue Hightower Professor in Obstetrics, Gynecology and Reproductive Sciences and Chair

Gilstrap, Larry C., III, M.D.

Robert K. Creasy, M.D. Professor, Vice Chair, and Director of the General Obstetrics Division

Katz, Allan R., M.D.

Dr. John T. Armstrong Professor in Obstetrics, Gynecology and Reproductive Sciences, Vice Chair, Professor and Chief of Service at LBJ

Maier, Robert C., M.D.

Berel Held, M.D., Professor and Di- rector of the Maternal and Fetal Medicine Division

Ramin, Susan M., M.D.

Associate Professor and Director of the Obstetrics-Gynecology Residency Program at Memorial Hermann Hospital

Monga, Manju, M.D.

Associate Professor and Director of the Obstetrics-Gynecology Residency Program at Lyndon B. Johnson General Hospital

Yeomans, Edward R., M.D.

Professors

Lucas, Michael, M.D.

Nader-Eftekhari, Shahla, M.D.

Ross, Patti J., M.D.

Associate Professors

Ali, Vaseem, M.D.

Berens, Pamela, M.D.

Curtis, Michele, M.D.

Huang, Jaou-Chen, M.D.

Mastrobattista, Joan, M.D.

Ramirez, Mildred, M.D.

Riggs, John, M.D.

Vidaeff, Alex, M.D.

Assistant Professors

Hollier, Lisa M., M.D.

Hsu, Ching-Ju, Ph.D.

Kilpatrick, Charles, M.D.

Knolle, Jon, M.D.

Orejuela, Francisco, M.D.

Patrick, Stephen, M.D.

Phatak, Deepali, M.D.

Promecene, Pamela, M.D.

Schneider, Karen, M.D.

Siddiqui, Gazala, M.D.

Clinical Assistant Professors

Morris, Robert K., Jr., M.D.

Toy, Eugene, M.D.

Instructors

Behrmann, Dena, C.N.M.

Hoskovec, Jennifer, M.S.

Hunt, Lynda, W.H.N.P.

Korte, Mary, C.N.M.

O'Sullivan, Merita, C.N.M.

Strassberg, Melissa

Warren, Melita, C.N.M.

Wicklund, Catherine

Department of Ophthalmology and Visual Science

The department provides a full complement of inpatient and outpatient clinical services through its primary teaching facilities: the Hermann Eye Center, Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, Settegast Community Health Center, Baytown Community Clinic, Acres Home Community Health Center, and San Jose Clinic. The Hermann Eye Center's primary location for clinical services is on the 7th floor of the Jones Pavilion of Memorial Hermann Hospital. The complete spectrum of ophthalmology services are provided at the Hermann Eye Center, which has a low vision unit, a photography section, an electro-diagnostic unit, a pediatric unit, a minor surgery unit, and a contact lens unit.

The Medical School coordinates all residency training programs. Each year, ophthalmology enrolls three residents out of approximately 200 applicants for the three-year residency program. Approximately 50 percent of the department's graduating residents continue in fellowships of advanced subspecialty training under the department's faculty or in some other ophthalmology program. Monthly resident conferences and rounds include: grand rounds, ethics rounds, journal club, photography conference, and case conferences in addition to reviews in basic and clinical science specialty lecture series. The department gives a monthlong basic science course in ophthalmology, as well as various other continuing education courses throughout the year.

Vision research is a high priority of the department with eight full-time re-

searchers on the faculty. A stimulating research environment is fostered by the collaborative relationships between the Medical School and the five other schools of UTHSC-H: School of Health Information Sciences, Dental Branch, School of Public Health, School of Nursing, and the Graduate School of Biomedical Sciences. In addition, the health science center has a number of interdisciplinary centers, institutes, and programs.

The department's outstanding research faculty have collectively received many prestigious national grants and awards, including Research to Prevent Blindness (RPB) Career Development Awards, an RPB Dolly Green Scholars Award, grants from Fight for Sight, and several major National Institutes of Health awards and numerous grants from private research foundations.

The department has strong ties with researchers in other departments of the Medical School and other institutions in the Texas Medical Center. A number of these individuals hold courtesy or joint appointments in the department. There are currently 10 to 12 collaborative research projects in addition to the clinical and basic science research being conducted by individual departmental faculty. The Hermann Eye Center is also a site for several clinical trial research projects.

Involvement in research is available and encouraged for the ophthalmologist in training; however, clinical ophthalmology is emphasized.

John S. Dunn Distinguished University Chair, Professor and Chair
Ruiz, Richard S., M.D.

Elizabeth Morford Chair in Ophthalmology and Professor
Massey, Stephen C., Ph.D.

Bernice Weingarten Chair in Ophthalmology and Professor
Garcia, Charles A., M.D.

Walter and Ruth Sterling Professor in Ophthalmology and Professor
Mazow, Malcolm L., M.D.

Ernest L. Kurth, Jr., Professor in Ophthalmology and Professor
Lanier, Jeffrey D. M.D.

Alfred W. Lasher III Professor in Ophthalmology and Professor
Mintz-Hittner, Helen A., M.D.

Vale Asche Russell Professor in Ophthalmology and Professor
Prager, Thomas C., Ph.D., M.P.H.

Joe M. Green, Jr., Chair in Ophthalmology and Professor
Yee, Richard W., M.D.

Professor
Marshak, David W., Ph.D.

Associate Professors
Carter-Dawson, Louvenia, Ph.D.
Felleman, Daniel J., Ph.D.
Heidelberger, Ruth, M.D., Ph.D.
Mills, Stephen L., Ph.D.

Assistant Professors
Chuang, Alice Z., Ph.D.
Han, Yi, Ph.D.
O'Brien, John, Ph.D.
Wang, Steven, W., Ph.D.
Zhao, Xiping C., Ph.D.

Clinical Associate Professors
Feldman, Robert M., M.D.
Kellaway, Judianne, M.D.

Clinical Assistant Professors
Bell, Nicholas P., M.D.
Brenner, R. Larry, M.D.

Butner, Robert W., M.D.
Gonzales, Carlos A., M.D.
Urso, Richard G., M.D.
Wang, Nan, M.D., Ph.D.
Zuckerbrod, Stewart L., M.D.

Clinical Instructors

Breckel, Michael C., O.D.
Farahani, Reza D., O.D.

Department of Orthopaedic Surgery

The department seeks to provide training for medical students and residents in the field of orthopaedics. The training program incorporates scheduled rotations at several area institutions affiliated with the program for the purpose of education. These institutions include Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, and the Shriners Hospital for Children-Houston.

Orthopaedic training opportunities exist for fourth-year medical students as a four-week clinical rotation. Operative and non-operative experiences are available as the students rotate through the different attendings' offices and the surgical suites, and they also participate in patient care on the floors.

Orthopaedic residents participate in a five-year residency program. The first year is under the faculty's direct supervision and includes rotations in general surgery, ICU, plastics/burns, trauma, anesthesiology, radiology, rheumatology, in addition to three months in orthopaedics. The remaining four years are spent in the different sub-specialties of orthopaedics—foot and ankle, general orthopaedics, hand/upper extremity, pediatrics, spine, sports medicine, total joints, and trauma. The didactic/edu-

cational program includes weekly conferences covering all of the above subspecialties, as well as anatomy, basic science, wet labs, oncology, research, and grand rounds.

Edward T. Smith, M.D., Chair in Orthopaedic Surgery, Professor and Chair

Clanton, Thomas O., M.D.

Associate Professor

Lumsden, Robert M., M.D.
McGarvey, William C., M.D.

Assistant Professors

Ambrose, Catherine G., Ph.D.
Clyburn, Terry A., M.D.
Foster, Lynanne, M.D.
Charbaoui, Idris, M.D.
Gogola, Gloria, M.D.
Jansa, Arthur M., M.D.
Sheth, Dhiren S., M.D.
Torres, Laura, M.D.
Tucker, Jeffery, M.D.

Department of Otolaryngology - Head and Neck Surgery

The Department of Otolaryngology - Head and Neck Surgery conducts training programs for medical students and residents. The hospitals affiliated with this program are Memorial Hermann Hospital, M. D. Anderson Cancer Center, Lyndon B. Johnson General Hospital, and St. Joseph Hospital.

Department faculty participate in teaching medical student courses: in the first year, Developmental Anatomy, Neuroscience and Computers in Research; in the second year, Physical Diagnosis; and, in the third year, a surgical lecture series. Fourth-year medical students may select a four-week rotation on the

service as part of their surgery requirement or as an elective.

Residency training requires one year of general surgery followed by four years in otolaryngology. This includes 8-12 months of training at M. D. Anderson Cancer Center. Three physicians are accepted each year into this residency program.

The department conducts a weekly continuing medical education lecture series by faculty and guest speakers, and bi-weekly resident seminars and journal club meetings.

Associate Professor and Chair

Chang, Ching-Yen Joseph, M.D., F.A.C.S.

Professors

Gray, Lincoln C., Ph.D.

Associate Professor and Vice Chair

Pereira, Kevin D., M.D.

Assistant Professors

Fakhri, Samer, M.D.

Reuter, S. Harold, M.D., F.A.C.S.

Visiting Associate Professor

Gadre, Arun K., M.D.

Department of Pathology and Laboratory Medicine

Because pathology is the keystone that bridges the basic sciences and the clinical sciences, the activities of the department are balanced among research, teaching, and service. The goal of the courses is to build on the students' knowledge of basic science to prepare them for the clinical years.

The department is responsible for teaching histology, immunology, pathology, and laboratory medicine and some microbiology to the medical students

during the first and second years and provides electives during the third and fourth years. The sophomore pathology course includes didactic lectures as well as laboratories featuring illustrative material and clinicopathological correlation. The course is designed to provide analytical approaches, as well as factual information that medical students need to make rational diagnostic and prognostic decisions. Formal electives of four weeks or more are available to fourth-year students in autopsy pathology, surgical pathology, cytopathology, neuropathology, laboratory medicine, or basic or clinical research arranged with individual faculty members. Research training for graduate students and postdoctoral fellows includes molecular biology, immunohistology, pathology, infectious diseases, heart disease and cancer. The department also has a fully certified residency program in anatomic and clinical pathology.

Distinguished Chair in Molecular Pathology, Professor and Chair

Hunter, Robert L., Jr., M.D., Ph.D.

Rosenberg Chair in Pathology and Laboratory Medicine, Professor and Vice Chair

Zander, Dani S., M.D.

Professor and Vice Chair for Education

Uthman, Margaret O., M.D.

Robert Greer Professor and Vice Chair for Research

Norris, Steven J., Ph.D.

Distinguished Chair in Pathology and Laboratory Medicine Professor

Buja, L. Maximilian, M.D.

Professorship in Forensic Pathology

Luis A. Sanchez, M.D.

Professors

Ayala, Alberto G., M.D.
Dasgupta, Amitava, Ph.D.
Krueger, Gerhard RF, M.D., Ph.D.
Milam, John D., M.D.
Papasozomenos, Sozos Ch., M.D.
Paul, Sudhir, Ph.D.
Rodkey, Leo Scott, Ph.D.
Rosenberg, Harvey S., M.D.
Stoops, James K., Ph.D.
Verani, Regina R., M.D.

Associate Professors

Actor, Jeffrey K., Ph.D.
Bick, Diane H., Ph.D.
Bick, Roger J., Ph.D.
Hartwell, Elizabeth A., M.D.
Jagannath, Chinnaswamy, Ph.D.
Nguyen, Andy, M.D.
Nishiyama, Yasuhiro, Ph.D.
Risn, Semyon A., M.D., Ph.D.
Tan, Dongfeng, M.D.
Wanger, Audrey, Ph.D.
Zhou, Z. Hong, Ph.D.

Assistant Professors

Covinsky, Michael H., M.D., Ph.D.
Duan, Xiuzhen, M.D., Ph.D.
Fattor, Ron A., M.D.
Chorbani, Rhonda P., M.D.
Illoh, Oriji C., M.D.
Kott, Marylee M., M.D.
Li, Wei, M.D., Ph.D.
Liu, Jing, M.D., Ph.D.
Mauyyedi, Shamila, M.D.
Oliver, Dwight H., M.D.
Padula, Anthony, M.D.
Prasad, N. Venkat, Ph.D.
Qu, Zhenhong, M.D., Ph.D.
Rittman, Barry R.J., Ph.D.
Robison, Rosa H., M.D., D.D.S.
Wang, Guanyu, Ph.D.
Wang, Min, M.D., Ph.D.
Yan, Peisha, M.D.

Department of Pediatrics

Faculty in the Department of Pediatrics emphasize teaching designed to maximize the health of each pediatric patient, with special focus on optimization of growth and development. Students are expected to develop their own approach to assist patients in achieving these goals. Children, from premature infants through adolescents, are followed in the inpatient and outpatient settings. Each patient encounter is viewed as an opportunity for the student to improve his or her abilities to work with pediatric patients and their families.

The department is responsible for a formal course in human genetics. In addition, the faculty includes subspecialists in adolescent medicine, cardiology, critical care medicine, developmental pediatrics, neonatal-perinatal medicine, genetics and metabolism, endocrinology, infectious diseases, hematology and oncology, nephrology, immunology, pulmonology, gastroenterology, and sports medicine. While there are numerous elective opportunities available in two- or four-week units in the various subspecialty clinical and laboratory aspects of pediatrics and its subspecialties, the importance of primary care is not lost. A major focus of the department is exposure to primary care in every student experience whether it be in a general pediatric setting or in one of the specialty clinics.

The pediatric residency program is integrated into a curriculum involving Memorial Hermann Children's Hospital, M. D. Anderson Cancer Center, and Lyndon B. Johnson General (LBJ) Hospital. These residency programs, too, have a special emphasis on primary care and are de-

signed to train general pediatricians.

Accredited post-residency subspecialty fellowships training programs are available in the Department of Pediatrics and include child neurology, endocrinology, genetics/dysmorphology, hematology/oncology, neonatology, and nephrology, infectious diseases, ambulatory pediatrics, pulmonology, adolescent medicine, and critical care medicine.

Interim Chair and Associate Professor and Critical Care and Pulmonology Division Director

Colasurdo, Guiseppe, M.D.

Michelle Bain Distinguished Professor in Medicine and Public Health and Professor

Tyson, Jon E., M.D.

Director, Neonatal-Perinatal Medicine and David R. Park Professorship in Pediatric Medicine

Sparks, John W., M.D.

Pediatric Hematology Professor and Division Director

Hoots, William Keith, M.D.

Richard Warren Mithoff Professor in Neonatal-Perinatal Medicine, Professor

Moya, Fernando, M.D.

Michael Knight Memorial Professor in Pediatrics, Professor and Developmental Division Director

Landry, Susan, Ph.D.

Professor and Infectious Diseases Division Director

Cleary, Thomas G., M.D.

Professor and Gastroenterology-Nutrition Division Director

Gleason, Wallace A., M.D.

Professor and Nephrology Division Director

Portman, Ronald J., M.D.

Professor and Cardiology Division Director

Rao, Syamasundar, M.D.

Professor and Adolescent Medicine Division Director

Risser, William L., Ph.D.

Professor and Endocrinology Division Director

Brosnan, Patrick, M.D.

Associate Professor and Housestaff Director, Vice Chair for Education and Training

Crandell, Sharon S., M.D.

Associate Professor and LBJ Chief of Pediatrics and Director of Newborn Services, Vice Chair

Garcia, Jose, M.D.

Professor and Medical Genetics Division Director

Northrup, Hope, M.D.

Professor and Community and General Pediatrics Division Director

Yetman, Robert J., M.D.

Professors

Denson, Susan E., M.D.

Fletcher, Jack M., Ph.D.

Foorman, Barbara, Ph.D.

Hecht, Jacqueline T., Ph.D.

Kennedy, Kathleen, M.D.

Mazur, Lynnette J., M.D.

McNeese, Margaret C., M.D.

Moyer, Virginia, M.D.

Swank, Paul, Ph.D.

Adjunct Professor

Sinclair, John, M.D.

Associate Professors

Barratt, Michelle S., M.D.
Ewing-Cobbs, Linda, Ph.D.
Fant, Michael, M.D., Ph.D.
Frazier, Johnnie P., M.D.
Heresi, Gloria, M.D.
Lasky, Robert, Ph.D.
Morris, Brenda, M.D.
Quiros, Ruben, M.D.
Smith, Kimberly C., M.D.
Stark, James, M.D.
Thapar, Mohinder, M.D.

Assistant Professors

Alcorn, Joseph, Ph.D.
Armentrout, Debra, N.N.P.
Assel, Michael, Ph.D.
Atkinson, Paige M., P.N.P.
Au, Kit-Sing, Ph.D.
Braun, Michael, M.D.
Brown, Deborah, M.D.
Brunelli, Luca, M.D.
Callaway, Heather, M.D.
Cheung, Kim K., M.D.
Ciancio, Dennis, Ph.D.
Cochran, John, M.D.
Conlon, Rosemary, M.D.
Cooley, Susan C., Ph.D., P.N.P.
Cua, Beatriz, M.D.
Denktas, Gurur, M.D.
Dieterich, Susan, Ph.D.
Dyson, Duane, M.D.
Eissa, Mona, M.D.
Escobar, Miguel, M.D.
Ferguson, Laura, M.D.
Gambello, Michael, M.D.
Girardet, Rebecca, M.D.
Gololobov, Gennady, Ph.D.
Gupta, Monesha, M.D.
Halbardier, Brenda, N.N.P.
Hormann, Mark, M.D.
Huseby, Valerie, N.N.P.
Khan, Amir, M.D.

Lahoti, Sheela, M.D.
Lantin, Regina, M.D.
Lawson, John, M.D.
Nichols, Julieana, M.D.
Ocampo, Elena, M.D.
Parikh, Nehal, M.D.
Ram, Vyju, M.D.
Record, Sharon, P.N.P.
Samuels, Joshua, M.D.
Sanders, Jason, M.D.
Santi, Kristi, Ph.D.
Smith, Holly D. Volek, M.D.
Swinford, Rita, M.D.
Tsakiri, Sophia, M.D.
Wasserman, Joan, R.N.
White-Satcher, D'Juanna, M.D.
Whiteley, Laura, M.D.
Williams, Aimee, M.S.
Zuhri-Yafi, Mohammad, M.D.

Adjunct Assistant Professor

Prasad, Mary, Ph.D.

Clinical Assistant Professors

Caple, Judith, N.N.P.
Jeffress, Isabelle, M.D.

Instructors

McManis, Lilla, Ph.D.

**Department of Physical
Medicine and Rehabilitation**

The Department of Physical Medicine & Rehabilitation (PM&R) is concerned with the evaluation and management of patients with a broad range of disabling conditions. Physiatrists are experts in the diagnosis and management of problems patients may have with their nerves, bones, joints, muscles, and other tissues. The types of conditions commonly treated by physiatrists include: spinal-cord injury, brain injury, amputation, multiple trauma, stroke, burns, acute musculoskeletal-pain problems,

chronic degenerative diseases like arthritis and neurologic diseases like multiple sclerosis.

The Medical School's PM&R department has joined forces with the PM&R department at Baylor College of Medicine for education and research purposes. All of the hospitals in the Texas Medical Center, as well as several outside, are affiliated with this new alliance. The physiatrists at Memorial Hermann treat mostly patients with musculoskeletal problems and stroke. Those at TIRR treat patients with more catastrophic disabilities like spinal cord or brain injury.

Students and residents have the opportunity to rotate through any of the clinical sites in close supervision with the faculty and those participating in PM&R fellowships. The highly motivated student has the opportunity to work as an extern and provide first-call services for patients with appropriate faculty supervision. Independent study projects, as well as research projects can be arranged for credit. PM&R faculty are also conducting joint research on spinal cord injured and brain injured patients with other specialties, including neurosurgery and basic science disciplines, including microbiology.

Clinical Professor and Chair

Donovan, William H., M.D.

Associate Professor

Boake, Corwin, Ph.D.

Clinical Associate Professor

Francisco, Gerard, M.D.

Clinical Assistant Professor and Vice Chair

Parsons, Kenneth C., M.D.

Clinical Assistant Professors

Khalifa, Ahmed, M.D.

Lai, Jenny, M.D.

Latorre, Juan M., M.D.

Salmeron, Eva, M.D.

Tran, Thao, M.D.

Wilde, Mark, Psy.D.

Department of Psychiatry and Behavioral Sciences

The goal of the Department of Psychiatry and Behavioral Sciences is to provide medical students, whatever their ultimate medical career choice, with opportunities to acquire (1) an appreciation for the patient as a whole person with an emotional as well as a physical life, (2) the ability to diagnose and treat common mental disorders, and (3) a positive attitude toward the importance of psychological well being. In the second year, medical students are introduced to the biopsychosocial aspects of behavior. Using the life cycle as a framework, human growth and development, determinants of behavior, human sexuality, death and dying, and medical ethics are discussed. Information is presented on interviewing, communication, and interpersonal skills; psychopathology, the psychological and social aspects of mental illness; and, community and preventive medicine. During the third-year clerkship, students spend eight weeks in the Mental Sciences Institute and the Harris County Psychiatric Center where they see and follow patients with various psychiatric syndromes. Clinical and research electives are available to fourth-year students.

Professor and Chair

Guynn, Robert W., M.D.

**Pat R. Rutherford, Jr. Chair in
Psychiatry and Professor**

Swann, Alan C., M.D.

Professors

Butler, Patricia, M.D.

Cherek, Don R., Ph.D.

Grabowski, John, Ph.D.

Lachar, David, Ph.D.

Lloyd, Camille, Ph.D.

Loveland, Katherine, Ph.D.

Meisch, Richard A., M.D., Ph.D.

Moeller, F. Gerard, M.D.

Pinell, Octavio, M.D.

Reilly, Edward L, M.D.

Roberts, Robert E., Ph.D.

Ruiz, Pedro, M.D.

Schmitz, Joy, Ph.D.

Associate Professors

Averill, Patricia, Ph.D.

Carranza, Jose, M.D.

Cowan, Katherine, M.D.

David-Hall, Elizabeth, M.D.

Gruber, Nelson, M.D.

Harper, Andrew R., M.D.

Krajewski, Kenneth J., M.D.

Lesser, Jary, M.D.

Matorin, Anu, M.D.

Pearson, Deborah, Ph.D.

Rhoades, Howard M., Ph.D.

Santos, Cynthia, M.D.

Saunders, Ann, M.D.

Schnapp, William, Ph.D.

Shah, Nurun, M.D., M.PH.

Steinberg, Joel, M.D.

Assistant Professors

Gummattira, Pushpa, M.D.

Lane, Scott, Ph.D.

Malkina, Svetlana, M.D.

Moin, Zaki M.D.

Morgan, Sharon, Ph.D.

Randle, Sonja, M.D.

Rocha, Donna, M.D.

Schneider, Laurie, M.D.

Stotts, Angela, Ph.D.

Szmuk, Eleonora, M.D.

Tcheremissine, Oleg, M.D.

Vittone, Alicia, M.D.

Warneke, Kimberly, M.D.

Wassef, Adel, M.D.

Clinical Professors

Creson, Daniel, M.D., Ph.D.

Overall, John, Ph.D.

Clinical Associate Professors

Lewis, Kay, M.D.

Clinical Assistant Professors

Ansell, David, D.O.

Aponte, Miriam, M.D.

Digilova, Irina, M.D.

Fernandez, Jose, M.D.

Griffith, John, M.D.

Johnson, Andrew, M.D.

Mazcuri, Riaz, M.D.

Nazarani, Mehboob, M.D.

Oderinde, Victor, M.D.

Roberts, Catherine, M.D.

Scott-Gurnell, Kathy, M.D.

Shoab, Arif, M.D.

Adjunct Assistant Professor

Norwood, William, Ph.D.

Department of Surgery

The goal of the Department of Surgery is to achieve excellence in patient care, clinical training, and basic and applied research.

The junior surgery clerkship is the core clerkship in surgery that is required of all students. The curriculum emphasizes basic clinical and surgical skills as applied to a common core of presenting problems. Students are introduced to preoperative, postoperative, traumatic and ambulatory care of patients. By the completion of this educational

program, students should demonstrate an understanding of the pathophysiology of surgically treatable diseases and should have acquired sufficient knowledge and diagnostic skills to be able to recognize when a patient's condition might best be served by a surgical consultation. Students will also develop the fundamental skills for safe and efficient management of patients in the hospital and ambulatory setting, clinical skills, and operative skills during the eight-week clerkship.

At least one month of the clerkship will be spent working with full-time faculty on a surgical service at Memorial Hermann Hospital or at the Lyndon B. Johnson (LBJ) General Hospital. The remaining month of the clerkship will be spent working on a general or surgical specialty service at Memorial Hermann or participating hospitals/services.

Clinical patient care is a significant part of students' surgical experience. The students are expected to make rounds in the morning and evening with their residents and/or faculty member, be available for on-call assignments, attend resident conferences, and assist in the work-up of patients who are admitted to their service. They are expected to write daily progress notes on the patients to whom they are assigned. Additional time may be spent in resident and/or faculty clinics. By and large, this will be an in-hospital experience.

The senior surgery clerkship is a four-week elective experience. Fourth-year students select this experience from a list of approved electives.

Postgraduate training begins with the categorical first-year program in surgery, specifically designed to provide

graduates the opportunity to combine medical school knowledge with practical skills and to lay a firm foundation for the pursuit of any surgery or medicine specialty. Beyond that, full residencies in general surgery and surgery specialties are offered.

Denton A. Cooley, M.D. Chair in Surgery, Professor and Chair, Associate Dean for Clinical Affairs, Executive Vice President for Clinical Affairs

Andrassy, Richard J., M.D.

Division of General Surgery, Trauma, and Critical Care

General Surgery is concerned with the broad aspects of the care of patients who have diseases amenable to or prevented by surgical therapy. Undergraduate and graduate education and research activities in this area include the study of immunology, oncology, nutrition, wound healing bioengineering and metabolism, the treatment of genetic, traumatic, neoplastic, inflammatory and neurohumoral diseases of the head and neck, endocrine glands, breast, skin, blood vessels, lung, esophagus, stomach, liver, bile ducts, pancreas, and large and small bowel.

The junior surgical clerkship is conducted at Memorial Hermann, LBJ General, and M. D. Anderson Cancer Center hospitals. Senior clerkships are provided at these institutions, as well as preceptorships with selected members of the clinical faculty. Summer research students are welcome to participate in the surgical laboratories of the Medical School and its affiliated hospitals.

A first-year course of graduate study

offered by a single approved residency program, the content of which is not limited to that of the sponsoring programs, is provided at these institutions, as well as preceptorships with selected members of the clinical faculty.

The graduate program in general surgery offers five years of progressive surgical experience. One or more years of investigative work is provided for those interested in pursuing an academic career. Fellowships also are available in areas of special interest (trauma, critical care, surgical endocrinology, and surgical gastroenterology).

**James H. "Red" Duke Jr., M.D.
Professor in Surgery, Professor and
Division Director Critical Care and
Trauma**

Moore, Frederick A., M.D.

**Professor of Surgery and Division
Director General Surgery**

Mercer, David, M.D.

**John B. Holmes Professor in the
Clinical Sciences and Professor**

Duke, James H., Jr., M.D.

**Griff T. Ross Professor in Humanities
and Technology in Health Care and
Professor**

Reiser, Stanley J., M.D., Ph.D.

Professors

Anderson, Kimberly D., Ph.D.

Kulkarni, Anil, Ph.D.

Moody, Frank G., M.D.

Potts, John R., III, M.D.

Associate Professors

Cocanour, Christine C., M.D.

Kozar, Rosemary M.D, Ph.D.

McKinley, Bruce, Ph.D.

Assistant Professors

Fischer, Craig, M.D.

Kao, Lillian, M.D.

Ligon, Ralph, M.D.

Robinson, Emily, M.D.

Sailors, R. Matthew, Ph.D.

Scarborough, Terry, M.D.

Todd, Samuel Rob, M.D.

Vercruysse, Gary, M.D.

Ware, Drue, M.D.

Wilson, Erik, M.D.

**Division of Immunology and Organ
Transplantation**

The division seeks to apply basic immunologic findings to clinical practice in the field of organ transplantation. Members of the division offer basic courses and clinical experience in transplantation by participating in the first-year introductory immunology course and the third-year clinical clerkship. The fourth-year clinical and research electives also provide experience in the organ transplantation center. Emphasis during these electives is placed on actual and potential applications of basic immunology to clinical practice. Students have the opportunity to (1) acquire the techniques for measuring the components of the immune system in man, (2) study immunodeficiency syndromes in man, and (3) learn the principles of diagnosis and treatment of end-stage disorders of the kidney, liver, and heart.

The division collaborates with 20 satellite dialysis centers by offering renal transplantation services. By virtue of the evaluation of end-stage renal disease patients and continuing clinical follow-up post-transplantation, the student has the opportunity to understand renal failure at various stages and to assess treatment options.

Specialized training in immunology in the division leading to the Ph.D. degree is available through the program in immunology in the Graduate School of Biomedical Sciences.

Professor and Division Director

Kahan, Barry D., Ph.D., M.D.

Professors

Kerman, Ronald H., Ph.D.

Mieles, Luis, M.D.

Stepkowski, Stanislaw M., D.V.M., Ph.D.

Van Buren, Charles T., M.D.

Associate Professors

Katz, Stephen, M.D.

Knight, Richard, M.D.

Merhav, Hadar, M.D.

Napoli-Eaton, Kimberly, Ph.D.

Rutzky, Lynne P., Ph.D.

Instructor

Wang, Mou-Er, M.D.

Division of Oral and Maxillofacial Surgery

The division is concerned with the diagnosis and treatment of congenital, acquired, traumatic, and pathological conditions of the oral and maxillofacial regions.

The division, in conjunction with the Department of Oral and Maxillofacial Surgery at the UT Dental Branch, provides students with the opportunity to acquire the basic principles of diagnosis and treatment pertinent to the discipline. A postgraduate four-year program includes a basic science program, a six-year double-degree program with advanced placement in medical school. Rotations are at Memorial Hermann Hospital, The Methodist Hospital, Lyndon B. Johnson General Hospital, Ben Taub

General Hospital, and the Michael De-Bakey Veterans Affairs Medical Center.

Assistant Professor

Wilson, James, D.D.S.

Division of Pediatric Surgery

The Division of Pediatric Surgery provides the opportunity for third- and fourth-year students, as well as anesthesia, family practice, pediatric, and surgical housestaff to serve on its clinical service. Third-year students spend time on the pediatric surgical service during their core clerkship in surgery. During this time they are exposed to many of the surgical problems of childhood, congenital defects, traumatic injuries, and patients with childhood malignancies. Teaching sessions include a weekly residents' conference and division grand rounds. The division's ambulatory clinics are an integral part of the teaching program.

Fourth-year students may elect to spend one month in the division, where they function as acting interns. Particular attention is paid to the patients admitted to the pediatric intensive care units. In addition, both parenteral and enteral nutrition are emphasized, and fourth-year students are given the direct responsibility of administering these therapies under close supervision. Students also may rotate with the sections of pediatric urology or plastic surgery.

Residents from the general surgery program routinely are assigned to the pediatric surgical division. Elective time for residents in other training programs is provided. The responsibility of these residents is centered on pre- and post-operative diagnosis and care, nutritional

therapy, and technical capabilities such as vascular access in the pediatric patient.

A.G. McNeese Chair in Pediatric Surgery, and Professor and Division Director

Lally, Kevin P., M.D.

Children's Fund Professor and Associate Professor of Surgery

Cox, Charles, M.D.

Professor

Teichgraber, John F., M.D.

Associate Professor

Baumgartner, James E., M.D.

Assistant Professor

Hayes-Jordan, Andrea, M.D.

Division of Plastic and Reconstructive Surgery

Basic principles of wound healing, critical analysis of clinical problems, and meticulous, innovative techniques are the hallmarks of plastic surgery. The Division of Plastic and Reconstructive Surgery provides fourth-year medical students with the opportunity to acquire these important principles during the surgery clinical clerkship.

Students are offered the opportunity to expand their knowledge and sharpen clinical skills by spending one month in an elective assignment to the plastic surgery service. Students participate at a level commensurate with their ability and interest. They are exposed to a variety of reconstructive problems and, given the opportunity, become proficient at basic wound care. Students participate in the teaching conferences and attend plastic surgery grand rounds.

Dr. Thomas D. Cronin Chair, Professor, and Division Director

Parks, Donald H., M.D.

Associate Professor

Wainwright, David J., M.D.

Assistant Professors

Freet, Daniel, M.D.

Livingston, Christopher, M.D.

Marques, Erik, M.D.

Division of Urology

The primary goal of this division's educational opportunity is to allow students to recognize and treat diseases of the urinary tract and male genital tract and recognize when the assistance of a urologist is required. A series of urology lectures is given to third-year medical students during the general surgery rotation.

The pathophysiology, diagnosis, and treatment of hematuria, prostatism, urinary tract neoplasms, trauma and infections, urinary calculi, and pediatric logic problems are discussed.

Two electives are offered in urology. One month can be spent at Memorial Hermann and Lyndon B. Johnson (LBJ) General hospitals. Surgical procedures, evaluation, and diagnosis of diseases of the urinary and male genital tract and the care of the ambulatory patient are stressed. Students attend a weekly radiology conferences and a residents' conference. For students interested in oncology, an elective can be arranged at M. D. Anderson Cancer Center.

Professor and Division Director

Westney, Ouida L., M.D.

**Cecil M. Crigler, M.D., Chair
in Urology and Professor**

Corriere, Joseph N. Jr., M.D.

Assistant Professors

Hairston, John, M.D.

Shu, Tung, M.D.

Wang, Run, M.D.