

## 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.

#### Roy M. and Phyllis Gough Huffington Distinguished Professor in Anesthesiology

Katz, Jeffrey, M.D.

#### Professors

Butler, Bruce D., Ph.D.  
Hagberg, Carin A., M.D.  
Khalil, Samia N., M.D.  
Larson, Stephen M., D.M.D.  
Novy, Diane M., Ph.D.  
Pivalizza, Evan G., MBChB, FFA

#### 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 I., M.D.  
Bogomolny, Yefim, M.D.  
Carbajal, Jael G., M.D.  
Chitty, Dudley A., M.D.  
Daily, William H., M.D.  
Doyle, Peter D., M.D.  
Dupont, Cedric, M.D.  
Ferrario, Lara, M.D.  
Foss, Prisila A., M.D.  
Garcia, Tony, M.D.  
Ghelber, Oscar, M.D.  
Gilmore IV, Clarence E., M.D.  
Guilliod, Renie, M.D.  
Hoeffler, Heidi F., M.D.  
Ignacio, Craig S., M.D.  
Jain, Ranu, MBBS  
Kalish, Raime B., M.D.  
Lam, Nicolas C., M.D.  
Limbrick, Erika S., M.D.  
Maposa, Douglas, MBChB  
Maus, Erik A., M.D.  
McNeely, John W., M.D.  
Melnikov, Vladimir, M.D.  
Normand, Katherine C., M.D.  
Panthayi, Sreelatha, M.D.  
Patil, Minakshi J., M.D.  
Riha, Karel, M.D.  
Shults, Justin C., M.D.  
Smith, Kelly J., M.D.  
Su, Young, M.D.  
Wenzel, Michael P., M.D.

Zhou, Shao Feng, M.D.

**Instructor**

Borglund, Rory R., CRNA

---

**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 students 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.

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 centers. 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 and Vice-Chair**

Lever, Julia E., Ph.D.

**Professor Emeritus**

DeMoss, John A., Ph.D.

**Professor and Director of BMB Graduate Program**

Blackburn, Michael, Ph.D.

**Associate Professor and Director, Structural Biology Research Center**

Penczek, Pawel, Ph.D.

**Robert A. Welch Distinguished Chair in Chemistry and Professor**

Spudich, John L., Ph.D.

**John S. Dunn, Sr. Chair in Biochemistry and Molecular Biology and Professor Director, Center for Membrane Biology**

Dowhan, William, Ph.D.

**Professor and Jesse H. Jones Chair in Molecular Biology**

Shyu, Ann-Bin, Ph.D.

**Professors**

Blackburn, Michael, Ph.D.

Lever, Julia E., Ph.D.

Putkey, John, Ph.D.

Shyu, Ann-Bin, Ph.D.

Strobel, Henry W., Ph.D.

**Associate Professors**

Carpenter, Phillip, Ph.D.

Lee, Cheng-Chi, Ph.D.

Levine, Alan E., Ph.D.

Penczek, Pawel A., Ph.D.

Ridge, Kevin, Ph.D.

**Assistant Professors**

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.

Jing, Hua (Holly), 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 – Texas Medical Center, Lyndon B. Johnson Hospital, and Memorial Hermann Hospital - The Woodlands. Relationships also exist with the M. D. Anderson Cancer Center.

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.

Miller, Charles C. III, Ph.D.

**Assistant Professors**

Azizzadeh, Ali, M.D.

Coogan, Sheila M.D.

Estrera, Anthony L., M.D.

Irani, Adel D., M.D.

Meada, Riad, 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, cuta-

neous 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 – Texas Medical Center, 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, dermatopathology, 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 include dermatopathology, procedural dermatology and Mohs surgery, and clinical research.

**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.  
Mays, Steven R., M.D.  
Nguyen, Tri H., M.D.

**Assistant Professors**

Ali, Asra, 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**

Drucker, Carol R., M.D.  
MacFarlane, Deborah F., M.D.

**Assistant Professors**

Chon, Susan, M.D.  
Hazarika, Parul, Ph.D.  
Migden, Michael R., M.D.

**Instructors**

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

---

**Department of Diagnostic and Interventional Imaging**

Clinical diagnostic imaging is stressed at all levels of training with particular em-

phasis 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 are available to fourth-year medical 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 elec-

tives are available for qualified students at any level of training. Arrangements can be made by contacting Lisa Kuchik in the department's Education Program Office at 713-500-7640.

**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.

Robinson, Lawrence H., M.D.

Wagner, Louis K., Ph.D.

**Associate Professors**

Crowe, James E., M.D.

Guthrie, Agnes M., M.D.

Hochhauser, Leo, M.D.

Redwine, M. Dwain, M.D.

West, O. Clark, M.D.

**Assistant Professors**

Beasley, Charles, Ph.D.

Bilow, Ronald M., M.D.

Bodagala, Siva R., M.D.

Bonfante-Mejia, Eliana E., M.D.

Censullo, Michael L., M.D.

Chandrasekhar, Chitra, M.D.

Ferguson, Emma C., M.D.

Fremaux, Richard L., M.D.

Gharbaoui, Latifa, 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.

Kumaravel, Manickam, M.D.

Kyriakides, Polina N., M.D.

Rao, Anuradha T., M.D.

Rieniets, Cynthia Y, M.D.

Rossmann, Lucho L., M.D.

Scheinbaum, Karen R., M.D.

Simonetta, Alexander B., M.D.

Sitton, Clark W., M.D.

Storey, Gayle S., M.D.

Surabhi, Venkateswar, M.D.

Wan, David Q., M.D.

Weir, Raymond U., M.D.

Zelitt, David L., M.D.

**Instructors**

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.

David, Cynthia L., M.D.

Dempsey, Peter J., M.D.

DuBrow, Ronelle A., M.D.

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

Eftekhari, Farzin, M.D.

Erasmus, Jeremy, M.D.

Fornage, Bruno D., M.D.

Ginsberg, Lawrence E., M.D.

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

Hicks, Marshall, M.D.

Iyer, Revathy B., M.D.

Jackson, Edward F., Ph.D.

Ketonen, Leena, M.D.

Kim, E.E., M.D.

Kumar, Ashok J., M.D.

Kumar, Rajendra, M.D.

Loyer, Evelyne, M.D.

Macapinlac, Homer A., M.D.

Matamoros, Aurelio, Jr., M.D.

Madewell, John E., M.D.

McEnergy, Kevin, M.D.  
Munden, Reginald, D.M.D., M.D.  
Murphy, William A., Jr., M.D.  
Parulekar, Suhas G., M.D.  
Podoloff, Donald A., M.D.  
Raval, Bharat, M.D.  
Samuels, Barry I., M.D.  
Sandler, Carl M., M.D.  
Silverman, Paul, M.D.  
Varma, Datla G.K., M.D.  
Wong, Franklin C., M.D., J.D., Ph.D.,  
M.S.

**Associate Professors**

Ahrar, Kamran, M.D.  
Chi, Linda, M.D.  
Choi, Haesun, M.D.  
Cody, Dianna, Ph.D.  
Dryden, Mark, M.D.  
Dunnington, Joel S., M.D.  
Gladish, Gregory, M.D.  
Gupta, Sanjay, M.D.  
Hunter, George, M.D.  
Kundra, Vikas, M.D., Ph.D.  
Lano, Elizabeth, M.D.  
Murthy, Ravi, M.D.  
Ng, Chuan, M.D.  
Sabloff, Bradely, M.D.  
Szlarkuk, Janio, M.D.  
Tamm, Eric P., M.D.  
Truong, Mylene, M.D.  
Wallace, Michael, M.D.  
Whitman, Gary J., M.D.  
Yang, Wei Tse, M.B.B.S.  
Yeung, Henry, M.D.

**Assistant Professors**

Ahrar, Judy, M.D.  
Arribas, Elsa, M.D.  
Avritscher, Rony, M.D.  
Balachandran, Aparna, M.D.  
Bhosale, Priyadarshani, M.D.  
Bronstein, Yulia, M.D.  
Bruzzi, John, M.D.  
Costelloe, Colleen, M.D.

Debnam, Matthew, M.D.  
Devine, Catherine, M.D.  
Gayed, Isis, M.D.  
Gonzalez-De Luna, Monica, M.D.  
Haygood, Tamara, Ph.D., M.D.  
Lane, Deanna, M.D.  
Le-Petross, Huong, M.D.  
Madoff, David, M.D.  
Mahvash, Armeen, M.D.  
Marcal, Leonardo, M.D.  
McRae, Stephen, M.D.  
Nunez, Rodolfo, M.D.  
Patnana, Madhavi, M.D.  
Schellingerhout, Dawid, M.B.Ch.B.  
Stephens, Tanya, M.D.  
Tam, Alda, M.D.  
Viswanathan, Chitra, M.D.

**Instructors**

Chasen, Beth, M.D.

---

**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 - Texas Medical Center 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 and Executive Vice Dean for Clinical Affairs**  
King, Brent, M.D.

**Associate Professor, Research Director**  
Robinson, David J., M.D.

**Associate Professor and Residency Program Director**  
Reichman, Eric, Ph.D., M.D.

**Assistant Professor and Associate Residency Program Director**  
Oakes, Joanne M.D.

**Assistant Professor and Assistant Residency Program Director and Medical Director, MHH-EC**  
McCarthy, James M.D.

**Associate Professor and LBJGH Emergency Center Medical Director**  
Bradley, Richard N., M.D.

**Assistant Professor and Assistant Residency Program Director**  
Takenaka, Kay Y., M.D.

**Associate Professor and Division Chief, Pediatric Emergency Medicine**  
Koerner, Christine, M.D.

**Clinical Associate Professors**  
Weltge, Arlo, M.D.  
Wilhelm, Ginger, M.D.

**Assistant Professors**  
Arroyo, Jesus M.D. M4  
Clerkship Director  
Arthur, Allison, M.D. Staff Physician  
Atkuri, Lakshmi, M.D.  
Awad, Sally H., M.D. SANE  
Medical Director  
Campbell, Robert, D.O. Clinical  
Assistant Professor  
Chambers, Kimberly, M.D.  
Chathampally, Yashwant, M.D.  
Cochran, John, M.D.  
Corley, Adam, M.D. Staff Physician  
Dire, Daniel, M.D. Staff Physician  
Dubey, Swapan, M.D. Staff Physician  
Ferguson, Laura, M.D. Staff Physician  
Fernon, Deborah, D.O.  
Fisher, William, M.D. Staff Physician  
Fite, Diana, M.D. Staff Physician  
Furno, Robert, M.D.  
George Crenshaw, Libby, M.D.  
Clinical Assistant Professor  
Grossheim Freeman, Lisa M.D.  
Gutierrez, Orlando, M.D.  
Grate, Issac Jr., M.D.  
Hecht, Stephen, M.D.  
Hoyer, David, M.D. Clinical Assistant  
Professor  
Johnson, Laura, M.D.

Jones, Elizabeth B., M.D.  
Kiss, George, M.D. Clinical  
Assistant Professor  
Luna-Solorzano, Hortencia, M.D.  
Staff Physician  
McKane, Michelle, M.D. Staff Physician  
Nguyen, David, M.D. Staff Physician  
Nguyen, Phong, M.D. Clinical  
Assistant Professor  
Perez, Angel, M.D. Staff Physician  
Pethe, Rajeev, M.D. Staff Physician  
Press, Gregory, M.D.  
Director of Clinical Ultrasonography  
Robinson, Rick, M.D. Clinical  
Assistant Professor  
Roldan, Carlos, M.D.  
Totz, Kenneth, MD Staff Physician  
Tran, Giang, M.D. Clinical Assistant  
Professor  
Williams, Ebony, M.D. Staff Physician  
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 Memorial Hermann – Texas Medical Center, 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 nine 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 and 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, and the San Jacinto Methodist Hospital 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, Vice Chair, and Director- Predoctoral Education Program**

Fowler, Grant, M.D.

### **Assistant Professor and Director of Research Program**

Stotts, Angela, 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., M.P.H.

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

Ojeih, Chris, M.D., M.P.H.

**Assistant Professor and Medical Director, West Loop Clinic**

Vasudevan, Deepa, 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.P.H.

**Professor**

Becan-McBride, Kathleen, Ed.D.

**Associate Professor**

Bedford, Joe A., M.D.

**Clinical Associate Professor**

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

**Assistant Professors**

Aboughali, Wael A., M.D.

Altman, Michael, M.D.

Butler, Kymberly, M.D.

Carroll, Kelley, M.D.

Cheng, Lee, M.D., M.P.H.

Dancel, Marietta, M.D.

Dodrill, Carrie, Ph.D.

Hasan, Aziza, M.D.

Kim, Yong, M.D.

King, Emily, M.D.

Kosuri, Murali, M.D.

Mitra, Shrabanee, M.D.

Nguyen, Phuc D., M.D.

Nguyen, Phuc X., M.D.

Olagundoye, Olasupo M.D.

Olutimehin, Omobolaji, M.D.

Parikh, Mihir, M.D.

Pham, Coung Van Phu, M.D.

Reddy, Bal, M.D.

Reyser, Julia, M.D.

Ridge, LaResa, M.D.

Roman, Rocio, M.D.

Russell, Matasha, M.D.

Sidhu, Gurnaib S., M.D.

Terrill, Louise Ann, M.D.

Whiting, Carman Hall, M.D.

**Clinical Assistant Professors**

Dholakia, Sonal, M.D..

Goldbaum, Stephanie, M.D.

Khan, Farheen, M.D.

Singhal, Nita, M.D.  
Truong, Hong Le, M.D.  
Wang, Yun, M.D.

#### **Instructors**

Afzal, Haider, M.D.  
Amina, Shazia, M.D.  
Montalvo, Rolf, M.D.

---

### **Department of Integrative Biology and Pharmacology**

The department's 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.

#### **Nobel Laureate Regental Professor**

Murad, Ferid, M.D., Ph.D.

#### **Professors**

Cabral, Fernando, 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.  
O'Neil, Roger G., Ph.D.  
Pate, Theodore, Ph.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**

Dessauer, Carmen, Ph.D.  
Dial, Elizabeth, J., Ph.D.  
Jayaraman, Vasanthi, Ph.D.  
Knutson, Victoria P., Ph.D.  
Loose, David S., Ph.D.  
Morris, Andrew, Ph.D.  
Weems, William A., Ph.D.

#### **Assistant Professors**

Frost, Jeffrey, Ph.D.  
Rich, Thomas, Ph.D.  
Shiple, Gregory, Ph.D.

#### **Instructors**

Bhattacharya, Rajat, Ph.D.  
Brown, Rachel, Ph.D.  
Kunjilwar, Kumud, Ph.D.  
Liu, Qisheng, Ph.D., M.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 and ethical 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 - Texas Medical Center, 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 inpatient medical services. There also is a mandatory internal medicine inpatient rotation in the senior year. The department offers a wide variety of clinical and/or tutorial electives, including inpatient services experiences, and 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 in-

ternal 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-Texas Medical Center, 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.

### Interim Chair and Professor

Orlander, Philip, 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

Boisaubin, Eugene, M.D., Associate Program Director

Finkel, Kevin, M.D., Associate Program Director

Gardiner, Carolyn, M.D., Associate

Program Director  
Mehta, Niraj, M.D. Associate Program  
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 advanced cardiac catheterization and electrophysiology laboratories; a center for cardiovascular medicine which includes non-invasive (echo, nuclear, P.E.T., peripheral vascular) facilities and a center for statistical programs and core angiographic image processing; an angiographic animal laboratory; animal physiology laboratories; extensive metabolic, biochemistry, and molecular biology research laboratories; a 17-bed coronary-care unit at Memorial Hermann-Texas Medical Center; a 56-bed intermediate unit and dedicated cardiovascular ward service. The P.E.T. facility features positron cameras and a cyclotron. The faculty practice includes teaching 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. An important part of training is inte-

grating cardiac technology with the art of general medicine and the role of subspecialty consultation.

The division is staffed with M.D.s and/or Ph.D.s whose interests cover the full range of clinical and research cardiology.

Novel aspects include state-of-the-art intervention (percutaneous ASD and PFO closure, carotid stenting, and endovascular AAA repair.); state-of-the-art electrophysiology (accessory pathway ablation, pulmonary vein isolation for AFIB, AICD, pacer, and resynchronization pacer implants.); state-of-the-art imaging (P.E.T. for sophisticated myocardial metabolism, 3D echo for Cardiac resynchronization therapy, CT angiography and Cardiac MR) and state of the art research (myocardial metabolism, development of agents for targeted drug and gene delivery, stem cell therapy, genetics of aortic aneurysm formation, myocardial salvage therapies).

**Professor and Director**  
**Division of Cardiology**  
**Medical Director Heart & Vascular**  
**Institute**  
**Memorial Hermann - Texas Medical**  
**Center**

McPherson, David D., M.D., FAHA

**Jay Brent Sterling Professor in**  
**Cardiovascular Medicine**  
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.

Hamilton, Andrew, M.D.

Klegerman, Mel, Ph.D.

Laing, Susan, M.D.

Sdringola, Stefano, M.D.

**Assistant Professors**

Cid, Emma, M.D.

Denktas, Ali, M.D.

Engler, David A., Ph.D.

Huang, Shaoling, Ph.D.

Kee, Patrick, M.D., Ph.D.

Kim, Hyunggun, Ph.D.

Loghin, Catalin, M.D.

Tung, Poyee, 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.

Students and residents rotate through our consultative services at the Memorial Hermann – Texas Medical Center 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. There is a weekly metabolic bone clinic, and biweekly thyroid nodule clinic with ultrasound and fine needle aspirations, and a twice weekly reproductive endocrinology clinic. 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.

Major areas of active research include diabetes and cardiovascular disease, Turner's syndrome and vascular abnormalities, insulin resistance and ovulatory dysfunction, and basic mechanisms of metabolic bone disease.

The division offers a two-year fellowship in Endocrinology, Diabetes and Metabolism, which includes rotations at the UT M. D. Anderson Cancer Center, pediatric endocrinology, reproductive endocrinology, metabolic bone clinic, 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.

Davis, Anu, M.D.

Ruppe, Mary, M.D.

**Instructor**

Mucha, John, PA

**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-Texas Medical Center 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 car-

cinogenesis. 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.

**Associate Professors**

Botero, R. Claudino, M.D.  
Edwards, Marilyn, Ph.D.

**Assistant Professors**

Clark, Cinda H., D.S.N., N.P.  
Gagliardi, Michael, M.D.  
Hamilton, Yolanda, M.D.  
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 - Texas Medical Center, 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.  
Boisaubin, Eugene, M.D.  
Smythe, Cheves McC., M.D.

**Associate Professors**

Bernstam, Elmer, M.D.  
Chan, Evelyn C. Y., M.D.  
Colletti, Laura A., M.D.  
Farnie, Mark, M.D.  
Faustinella, Fabrizia, M.D.  
Mehta, Niraj, M.D.  
Thomas, Eric, M.D.

**Assistant Professors**

Bhattacharjee, Modushudan, M.D.  
Catalano, Janine, F.N.P.  
Gardiner, Carolyn, M.D.  
Hardwicke, Robin, AACRN, FNP, Ph.D.  
Krucke, Gus, M.D.  
Lux, Thomas, M.D.  
Shulman, Edie, M.D.  
White, Janeana, M.D.

**Division of Geriatric Medicine**

The mission of this division is to provide outstanding clinical care to older patients, enhance the geriatric medicine training of medical students, residents and other professional trainees, and conduct clinical research to improve the lives of elder mistreatment victims and other vulnerable seniors.

**Professor and Division Director**

Dyer, Carmel, M.D.

**Assistant Professors**

Agarwal, Kathryn, M.D.  
Ahmed, Nasiya, M.D.  
Halphen, John M., MD  
Varas, Grace, M.D.

**Instructors**

Gorman, Susan, NP  
Napoleon, Edith, PA  
Pickens, Sabrina, NP

**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 collaborates 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 – Texas Medical Center and LBJ hospitals and M. D. Anderson Cancer Center.

The Gulf States Hemophilia Diagnostic and Treatment Center is operated in cooperation with Pediatric Hematology. 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 ox-

ide 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 identification of 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 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 presymptomatic diagnosis of genetic disorders. Clinical training is provided through consult services at Memorial Hermann – Texas Medical Center, Texas Heart Institute/St. Luke's Hospital, and outpatient clinics. Clinical and basic research opportunities are available in the field of cardiovascular genetic diseases. Teaching conferences are held two times a week.

**Professor and Division Director**

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

**Assistant Professors**

Avidan, Nili, Ph.D.

Guo, Dongchuan, Ph.D.

Tran-Fadulu, Van, M.S.

Johnson, Jay, Ph.D.

Pannu, Hariyadarshi, Ph.D.

**Division of Pulmonary and Critical Care Medicine**

The teaching program of the Division of Pulmonary, Critical Care Medicine and Sleep 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 hospi-

tals. A separate clinical clerkship is offered in sleep medicine. A tutorial laboratory elective also is available.

**Professor and Division Director**

Castriotta, Richard, M.D.

**Associate Professor**

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

Patel, Bela, M.D.

**Assistant Professors**

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

Hamzeh, Nabeel, M.D.

Murthy, Jayarama S., M.D.

**Instructor**

Haque, Sajid, M.D.

Kasirajan, Priya, M.D.

McKeivly, Brandy, M.D.

**Division of Renal Diseases and Hypertension**

The division is organized to provide educational opportunities in the broad field of renal disease, hypertension, transplantation, and acid-base/electrolyte disorders to both students and house-staff. Clinical facilities and well-designed dialysis areas for acute and chronic hemodialysis and peritoneal dialysis are available in Memorial Hermann-Texas Medical Center 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 students and house staff, the division provides clinical training at The University of Texas M. D. Anderson Cancer Center, Lyndon B. Johnson General Hospital, and Memorial Hermann – Tex-

as Medical Center. Preceptorships are available to fourth-year students and housestaff rotating on the service. The fellowship program offers postgraduate training in clinical nephrology and clinical or laboratory research. Graduate and medical school student research opportunities are available

**Associate Professor and Division Director**

Finkel, Kevin M.D.

**Professors**

Kahn, Andrew, M.D.

Molony, Donald, M.D.

**Associate Professors**

Dosekun, Akinsan, M.D.

Guntupalli, Jayarama, M.D.

**Assistant Professors**

Foringer, John, M.D.

Jalal, Diana, M.D.

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

Samuels, Joshua, 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 ankylosing spondylitis, scleroderma, systemic lupus erythematosus, Sjögren's syndrome, rheumatoid arthritis, polymyositis, HIV-associated rheumatic diseases, and other types of arthritis. Genetic control of disease susceptibility, autoantibody production, outcome studies, and pathogenic 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.

Zhou, Xiaodong, M.D.

**Assistant Professors**

Assassi, Shervin, M.D.

**Instructor**

Gourh, Pravitt, 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 pur-

sue 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.

Koehler, Theresa M., Ph.D.

Margolin, William, Ph.D.

**Associate Professors**

Christie, Peter J., Ph.D.

Kaplan, Heidi B., 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

Baxter, Douglas, A., Ph.D.

(Research Professor)

Crow, Terry, Ph.D.

Dafny, Nachum, Ph.D.

Dash, Pramod, K. Ph.D.

Gibson, Kathleen, Ph.D.

Marshak, David W., Ph.D.

Waxham, M. Neal, Ph.D.

Wright, Anthony, Ph.D.

#### Associate Professors

Bean, Andrew, Ph.D.

Felleman, Daniel J., Ph.D.

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

Knierim, James, 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

Beauchamp, Michael, Ph.D.

Dragoi, Valentin, Ph.D.

Janz, Roger, Ph.D.

Shouval, Harel, Ph.D.

Smolen, Paul, Ph.D.  
(Research Assistant Professor)

**Senior Lecturer**

Cleary, Leonard J., Ph.D.  
Zhang, Han, M.D.

**Lecturers**

Rogers, Carla, Ph.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-Texas Medical Center, Lyndon B. Johnson General 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 third 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, movement disorders, and multiple sclerosis/neurovirology neuro-immunology.

**Professors**

**Roy M. and Phyllis Gough Huffington Distinguished Chair and Chair**

Grotta, James C., M.D.

**Kraft W. Eidman Professor in the Medical Sciences**

Ferrendelli, James A., M.D.

**Roy M. and Phyllis Gough Huffington Chair**

Yatsu, Frank M., M.D.

**Bartels Family Professor in Neurology**

Wolinsky, Jerry S., M.D.  
Brod, Staley A., M.D.  
Schiess, Mya C., M.D.  
Van Horn, Gage, M.D.

**Associate Professors**

Aronowski, Jarek, Ph.D.  
Dimachkie, Mazen M., M.D.  
Lindsey, J. William, M.D.  
Slater, Jeremy D., M.D.

**Assistant Professors**

Athar, Parveen, M.D.  
Gonzales, Nicole R., M.D.  
Illoh, Kachikwu, M.D.  
Kalamangalam, Giridhar, M.D.  
Nelson, Flavia, M.D.  
Noser, Elizabeth, M.D.  
Savitz, Sean I., M.D.  
Zhao, Xiurong, Ph.D.

**Senior Lecturer**

Cleary, Leonard J., Ph.D.  
Zhang, Han, M.D.

**Lecturers**

Rogers, Carla, Ph.D.

---

**Department of Neurosurgery**

The Department of Neurosurgery is concerned with diagnosis and treatment 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**

Kim, Dong, M.D.

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

Clifton, Guy L., M.D.

**Professors**

Powner, David J., M.D.

Vollmer, Dennis G., M.D.

**Associate Professors**

Levine, Robert, M.D.

**Assistant Professors**

Alp, M. Serdar, M.D.

Crommett, John W., M.D.

Fletcher, Stephen, D.O.

Grill, Raymond, Ph.D.

Malik, Amir, M.D.

Mohanty, Aaron, M.D.

Tandon, Nitin, M.D.

Valadka, Alex, M.D.

Yu, Rong, Ph.D.

Zhang, Fangyi, M.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 – Texas Medical Center, 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 - Texas Medical Center 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**

Ramin, Susan, 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 Director of the Maternal and Fetal Medicine Division**

Monga, Manju, M.D.

**Associate Professor and Director of the Obstetrics-Gynecology Residency Program at Memorial Hermann – Texas Medical Center**

Promecene, Pamela, M.D.

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

Hollier, Lisa M., 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**

Chohan, Lubna, M.D.

Kilpatrick, Charles, M.D.

Knolle, Jon, M.D.

Orejuela, Francisco, M.D.

Phatak, Deepali, M.D.

Schneider, Karen, M.D.

Siddiqui, Gazala, M.D.

**Clinical Assistant Professors**

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

Toy, Eugene, M.D.

**Instructors**

Hoskovec, Jennifer, M.S.

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

Korte, Mary, C.N.M.

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

Sherrill, Jennifer, M.S.

Strassberg, Melissa

Warren, Melita, C.N.M.

---

## Department of Ophthalmology and Visual Science

The department provides a full complement of inpatient and outpatient clinical services through its primary teaching facilities: the Cizik Eye Clinic, Memorial Hermann-Texas Medical Center, Lyndon B. Johnson General Hospital, Settegast Community Health Center, Baytown Community Clinic, Acres Home Community Health Center. In addition, indigent patients from San Jose Clinic are seen at the Eye Center. The Cizik Eye Clinic is located on the 18th floor of the Memorial Hermann Medical Plaza. The complete spectrum of ophthalmology services are provided at the Eye clinic, 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 300 applicants for the three-year residency program. Approximately 75 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 researchers 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 has 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, several major National Institutes of Health awards, and numerous grants from private research foundations. The department holds both a Core Grant for Vision Research and a Vision Training Grant from the National Eye Institute.

The department has strong ties with researchers in other departments of the Medical School and other institutions in the Texas Medical Center and with the College of Optometry at the University of Houston. 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.

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.

**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.  
Chuang, Alice Z., Ph.D.  
Felleman, Daniel J., Ph.D.  
Heidelberger, Ruth, M.D., Ph.D.  
Mills, Stephen L., Ph.D.  
O'Brien, John, Ph.D.

**Assistant Professors**  
Han, Yi, Ph.D.  
Wang, Steven, W., Ph.D.  
Zhao, Xinping C., Ph.D.

**Clinical Professor**  
Feldman, Robert M., M.D.

**Clinical Associate Professor**  
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.  
Wang, Nan, M.D., Ph.D.

**Clinical Instructors**  
Breckel, Michael C., O.D.  
Esfandiari, Saina, O.D.  
Farahani, Reza D., O.D.

---

## Department of Orthopaedic Surgery

The department provides a full complement of inpatient and outpatient clinical services through its primary teaching facilities: the Cizik Eye Clinic, Memorial Hermann Hospital, Lyndon B. Johnson General Hospital, Settegast Community Health Center, Baytown Community Clinic, Acres Home Community Health Center. In addition, indigent patients from San Jose Clinic are seen at the Eye Center. The Cizik Eye Clinic is located on the 18th floor of the Memorial Hermann Medical Plaza. 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 300 applicants for the three-year residency program. Ap-

proximately 75 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 researchers 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 has 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, several major National Institutes of Health awards, and numerous grants from private research foundations. The department holds both a Core Grant for Vision Research and a Vision Training Grant from the National Eye Institute.

The department has strong ties with re-

searchers in other departments of the Medical School and other institutions in the Texas Medical Center and with the College of Optometry at the University of Houston. 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.

#### **Chair and Professor**

Dickson, Kyle M., M.D., M.B.A.

#### **Professors**

Clanton, Thomas O., M.D.

Lumsden, Robert M., M.D.

#### **Associate Professors**

Ambrose, Catherine G., Ph.D.

Marco, Rex AW, M.D.

McGarvey, William C., M.D.

#### **Assistant Professors**

Clyburn, Terry A., M.D.

Gharbaoui, Idris, M.D.

Jansa, Arthur M., M.D.

Sheth, Dhiren S., M.D.

Tucker, Jeffery, M.D.

---

### **Department of Otolaryngology Head and Neck Surgery**

The Department of Otolaryngology Head and Neck Surgery conducts train-

ing programs for medical students and residents. The hospitals affiliated with this program are Memorial Hermann – Texas Medical Center, 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.

**Interim Chair**

Andrassy, Richard, M.D.

**Associate Professor and Vice Chair**

Pereira, Kevin D., M.D.

**Assistant Professors**

Fakhri, Samer, 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 fourth year. The second year 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**

Brown, Robert E., 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**

Sanchez, Luis A., M.D.

**Professors**

Dasgupta, Amitava, Ph.D.

Milam, John D., M.D.

Nguyen, Andy, M.D.

Papasozomenos, Sozos Ch., M.D.

Paul, Sudhir, Ph.D.

Risin, Semyon A., M.D., 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.

Jagannath, Chinnaswamy, Ph.D.

Liu, Jing, M.D., Ph.D.

Nishiyama, Yasuhiro, Ph.D.

Wanger, Audrey, Ph.D.

Zhou, Z. Hong, Ph.D.

**Assistant Professors**

Bai, Yu, M.D., Ph.D.

Chen, Lei, M.D.

Covinsky, Michael H., M.D., Ph.D.

Duan, Xiuzhen, M.D., Ph.D.

Chorbani, Rhonda P., M.D.

Illoh, Orijeji C., M.D.

Jimenez-Quintero, Laura, M.D.

Kott, Marylee M., M.D.

Li, Wei, M.D., Ph.D.

Lin, Tao, M.D., Ph.D.

Oliver, Dwight H., M.D.

Padula, Anthony, M.D.

Paredes, Angel,, Ph.D.

Piao, Yingchao, M.D., Ph.D.

Sienko, Anna, M.D.

Smith, Keri C., Ph.D.

Taguchi, Hiroaki, Ph.D.

Wang, Min, M.D., Ph.D.

Yan, Peisha, M.D.

Yu, Xue-Kui, Ph.D.

Zhang, Rongzhen, M.D., Ph.D.

Zhao, Bihong, M.D., Ph.D.

**Senior Lecturer**

Rittman, Barry R.J., Ph.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, immunol-

ogy, 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 designed 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.

**Dean, H. Wayne Hightower**  
**Distinguished Professor in the**  
**Medical Sciences,**  
**Chair, 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., MPH.

**Interim Director, Neonatal-Perinatal**  
**Medicine and Associate Professor**  
**and LBJ Chief of Pediatrics and Direc-**  
**tor of Newborn Services, Vice Chair**  
Garcia, Jose, M.D.

**David R. Park**  
**Professorship in Pediatric Medicine**  
Sparks, John W. M.D.

**Pediatric Hematology Professor and**  
**Division Director**  
Hoots, William Keith, M.D.

**Michael Mathew Knight Professor of**  
**Pediatrics, Director, Children's Learn-**  
**ing Institute**  
Landry, Susan, Ph.D.

**Professor and Infectious Diseases Di-**  
**vision Director**  
Cleary, Thomas G., M.D.

**Professor and Gastroenterology-**  
**Division Director**  
Rhoads, Marc J., 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.

**Assistant Professor and Interim**  
**Endocrinology**  
**Division Director**  
Yafi, Michael, M.D.

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

Crandell, Sharon S., 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.

**Professor and A. Blood Chair, Division  
Director of Neurology**

Butler, Ian J., M.D.

**Professors**

Barratt, Michelle S., M.D.

Colasurdo, Giuseppe N., M.D.

Denson, Susan E., M.D.

Ewing-Cobbs, Linda, Ph.D.

Gleason, Jr. Wallace, M.D.

Hecht, Jacqueline T., Ph.D.

Kennedy, Kathleen, M.D.

Lasky, Robert, Ph.D.

Mazur, Lynnette J., M.D.

McNeese, Margaret C., M.D.

Papanicolaou, Andrew C., M.D.

Smith, Kimberly C., M.D.

Swank, Paul, Ph.D.

**Associate Professors**

Alcorn, Joseph L., Ph.D.

Eissa, Mona, M.D.

Fant, Michael, M.D., Ph.D.

Ferguson, Laura, M.D.

Frazier, Johnnie P., M.D.

Girardet, Rebecca, M.D.

Heresi, Gloria, M.D.

Khan, Amir, M.D.

Mancias, Pedro, M.D.

Morris, Brenda, M.D.

Quiros, Ruben, M.D.

Swinford, Rita, M.D.

Thapar, Mohinder, M.D.

**Assistant Professors**

Anthony, Jason L., Ph.D.

Armentrout, Debra, N.N.P.

Assel, Michael, Ph.D.

Au, Kit-Sing, Ph.D.

Biliciler-Denktaş, Gurur, M.D.

Braun, Michael, M.D.

Breier, Joshua I., Ph.D.

Brown, Deborah, M.D.

Brunelli, Luca, M.D.

Castillo, Eduardo, Ph.D.

Cheung, Kim K., M.D.

Ciancio, Dennis, Ph.D.

Conlon, Rosemary, M.D.

King, Susan C., Ph.D., P.N.P.

Cua, Beatriz, M.D.

De Ybarrondo, Lisa, M.D.

Escobar, Miguel, M.D.

Evans, Patricia W., M.D.

Feldmann, Jennifer, M.D.

Frye, Richard E., M.D.

Gambello, Michael, M.D.

Geltmeyer, Abby M., M.D.

Green, Charles, Ph.D.

Gunnewig, Susan, Ph.D.

Gupta, Monesha, M.D.

Guttentag, Cathy, Ph.D.

Halbardier, Brenda, N.N.P.

Hormann, Mark, M.D.

Huseby, Valerie, N.N.P.

King, Terri M., Ph.D.

Lahoti, Sheela, M.D.

Liaw, Shih-Ning, M.D.

Love, Latanya J., M.D.

Moore, Heather, M.D.

Navarro, Fernando, M.D.

Ocampo, Elena, M.D.

Parikh, Nehal, M.D.

Prasad, Mary R., Ph.D.

Record, Sharon, P.N.P.

Rodriguez, Nidra I., M.D.

Rubio, Jr. Nunilo, M.D.

Sarkari, Shirin, Ph.D.

Samuels, Joshua, M.D.

Sanders, Jason, M.D.  
Sexton, Crystal, W., Ph.D.  
Singletary, Claire N., M.S., CGC  
Strobel, Nathaniel H.P., M.D.  
Taylor, Heather, Ph.D.  
Tsakiri, Sophia, M.D.  
Volek Smith, Holly D., M.D.  
Woldesenbet, Mesfin, M.D.

#### **Clinical Assistant Professors**

Greene, Anshula, M.D.  
Gunner, Kathy B. PNP  
Noblin, Sarah J., M.A.  
Shelburne, Julia T., M.D.  
Smith, Janice L., Ph.D.

#### **Clinical Professor**

Brosnan, Patrick, G., M.D.

#### **Instructors**

Cieslik, Katarzyna, Ph.D.  
Harbison, Andrea, M.S.  
Horz, Marianna, M. S.  
Posey, Karen, Ph.D.  
Wenderfer, Scott E., M.D.

#### **Visiting Adjunct Professor**

Murphy, James R., Ph.D.

#### **Visiting Associate Professors**

Dreyer, Charles F., M.D.  
Lopez, Suzanne M., M.D.  
Lucke, Joseph F., Ph.D.

#### **Adjunct Instructor**

Bass, Pam,

#### **Staff Physicians**

Cohan, Stuart, M.D.  
Hakemack, Brenda S., M.D.  
Jon, Cindy, M.D.  
Wong, Christina, M.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 Professors**

Castillo, Teodoro, M.D.

Khalifa, Ahmed, M.D.

Latorre, Juan M., M.D.

Melton, Danielle H., M.D.

Salmeron, Eva, M.D.

Wilde, Mark, Psy.D.

Yang, Stephen, M.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 Interim Chair**

Ruiz, Pedro, 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.

Guynn, Robert W., M.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.

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.P.H.  
Steinberg, Joel, M.D.  
Wassef, Adel, M.D.

**Assistant Professors**

Gummattira, Pushpa, M.D.  
Lane, Scott, Ph.D.  
Malkina, Svetlana, M.D.  
Morgan, Sharon, Ph.D.  
Randle, Sonja, M.D.  
Roberts, Catherine, Ph.D.  
Rocha, Donna, M.D.  
Schneider, Laurie, M.D.  
Vittone, Alicia, M.D.  
Warneke, Kimberly, M.D.

**Clinical Professors**

Creson, Daniel, M.D., Ph.D.  
Overall, John, Ph.D.

**Clinical Associate Professors**

Lewis, Kay, M.D.

**Clinical Assistant Professors**

Fernandez, Jose, M.D.  
Griffith, John, M.D.  
Johnson, Andrew, M.D.  
Oderinde, Victor, M.D.  
Scott-Gurnell, Kathy, M.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 present-

ing 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 – Texas Medical Center 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, Executive Vice President for Clinical Affairs**

Andrassy, Richard J., M.D.

**Division of General Surgery, Trauma, and Critical Care**

The Division of General Surgery, Trauma and Critical Care 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 – Texas Medical Center, 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 by contacting the Division Chief.

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, and advanced minimally invasive surgery).

**James H. "Red" Duke Jr., M.D. Professor in Surgery, Professor and Vice Chair Chief, Division of General Surgery, Trauma, and Critical Care**

Mercer, David W., M.D.

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

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

**Professors**

Kulkarni, Anil, Ph.D.

Moody, Frank G., M.D.

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

**Associate Professors**

Kozar, Rosemary M.D, Ph.D.

Robinson, Emily, M.D.

Ware, Drue, M.D.

### **Assistant Professors**

Gale, Stephen, M.D.  
Gill, Brijesh, M.D.  
Gonzalez, Ernest, M.D.  
Helmer, Kenneth, M.D.  
Kao, Lillian, M.D.  
Scarborough, Terry, M.D.  
Wilson, Erik, M.D.  
Yu, Sherman, 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**

Van Buren, Charles T., M.D.

### **Professors**

Kahan, Barry D., Ph.D., M.D.  
Kerman, Ronald H., Ph.D.  
Stepkowski, Stanislaw M., D.V.M., Ph.D.

### **Associate Professors**

Katz, Stephen, M.D.  
Knight, Richard, M.D.  
Napoli-Eaton, Kimberly, Ph.D.

### **Assistant Professors**

Podder, Hemangshu, M.D., Ph.D.

### **Instructor**

Pollard, Vida, Pharm.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 – Texas Medical Center, The Method-

ist Hospital, Lyndon B. Johnson General Hospital, Ben Taub General Hospital, and the Michael DeBakey Veterans Affairs Medical Center.

**Associate 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. The students and residents interact daily with the Pediatric Surgery fellow, who is responsible for managing the service.

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 Professor of Surgery**

Cox, Charles, M.D.

**Professor**

Teichgraeber, John F., 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, giv-

en 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 – Texas Medical Center 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.

**Associate Professor and Division  
Director**

Westney, Ouida L., M.D.

**Associate Professor**

Wang, Run, M.D.

**Assistant Professors**

Canfield, Steven, M.D.

Shu, Tung, M.D.