

# School of Medicine

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## Michael J. Stamos, M.D., Dean

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<http://www.som.uci.edu/>

## School of Medicine Overview

The UC Irvine School of Medicine became part of the University of California in 1965. Prior to this time it was known as the California College of Medicine which traces its roots to a private institution founded in 1896.

## Mission Statement

The mission of the University of California, Irvine, School of Medicine is to promote biomedical sciences and medicine in Orange County, California, and beyond, through excellence in research, patient care, education, and community service. This mission is achieved through programs of excellence in the following:

**Education:** The School of Medicine is committed to provide educational programs of the highest quality to medical students, M.D./Ph.D. and M.D./M.B.A. students, residents, fellows, allied health, graduate academic students, practicing physicians and other health care professionals. Educational programs are offered along the continuum of medical education with programs in undergraduate, graduate, and continuing medical education. These programs emphasize the most current knowledge in the health sciences and reflect the changing practice of medicine. Further, the School of Medicine's educational programs are designed to stimulate life-long self-learning and critical inquiry and to exemplify those human values necessary to fulfill the professional commitments of a career in the health sciences.

**Research:** Excellence in research is an essential feature of the School of Medicine. Therefore, the School is committed to develop and maintain research programs in the health sciences which seek to advance basic scientific knowledge and the prevention, diagnosis, and treatment of human illness.

**Clinical Care:** Recognizing its responsibility to meet the educational needs of students and the diverse needs of the patient community, the School of Medicine is committed to programs of clinical excellence across the spectrum of patient care disciplines.

**Service to the Public:** As a publicly assisted institution, the School of Medicine is committed to serve the community as a vital resource of expertise and knowledge. The School further serves the public through the training of health professionals whose backgrounds reflect California's ethnic and cultural diversity and whose professional careers address California's health care needs.

## Degrees

Biomedical and Translational Science	M.S.
Biomedical Sciences <sup>1</sup>	M.S., Ph.D.
Environmental Health Sciences	M.S., Ph.D.
Epidemiology	M.S., Ph.D.
Genetic Counseling	M.S.
Medicine	M.D.
Pharmacological Sciences <sup>2</sup>	M.S., Ph.D.

<sup>1</sup> The School of Medicine's basic medical science departments of Anatomy and Neurobiology, Biological Chemistry, Microbiology and Molecular Genetics, Pathology and Laboratory Medicine, and Physiology and Biophysics offer graduate instruction leading to the M.S. and Ph.D. degrees in Biomedical Sciences.

<sup>2</sup> Offered in conjunction with the Department of Pharmaceutical Sciences.

The School of Medicine also offers the Medical Scientist Training Program (M.D./Ph.D.), the Program in Medical Education for the Latino Community (PRIME-LC), an M.D./M.B.A. program in cooperation with The Paul Merage School of Business, an M.D./M.P.H. program in cooperation with the Program in Public Health, medical residency and fellowship programs, and continuing medical education for physicians and other health care professionals.

## **Vision Statement**

The University of California, Irvine, School of Medicine will achieve preeminence through the creation, application, and dissemination of new knowledge in the biomedical sciences and medicine. This will be accomplished through international leadership in biomedical research, development of new therapies, delivery of state-of-the-art medical care, and innovative biomedical education.

## **Health Sciences Complex**

The Health Sciences Complex is a 121-acre site that houses UCI's medical school facilities. Twenty-nine acres have been developed to provide space for teaching, research, and patient care as well as offices for departmental administration.

The School's basic science instructional programs are located in modern, well-equipped, medical sciences buildings. These units provide space for first- and second-year classes, lecture halls (including the Dr. S. Jerome and Judith D. Tamkin Student Lecture Hall), offices and laboratories for various basic and clinical departments. Other buildings house the School's administration and laboratories.

The Medical Education building symbolizes the University's ongoing commitment to high-quality medical education and innovation. The \$40-million, 65,000-square-foot building serves as the hub for nearly all non-hospital related educational activities for UC Irvine medical students, and incorporates the latest technology to help prepare tomorrow's doctors for healthcare in the digital age. The School of Medicine Educational Affairs Office is located in the Medical Education building, as well as the innovative Program in Medical Education for the Latino Community (PRIME-LC), an acclaimed program to improve healthcare for the Latino community by training medical students to care for this underserved population in a linguistically competent, culturally sensitive way.

The Medical Education building's telemedicine center includes a 60-seat interactive video auditorium where students watch UC Irvine physicians provide expert care over the Internet to patients in rural or other remote locations. Located on the second floor, the Clinical Skills Center is a cutting-edge facility for teaching and assessment of clinical skills, communication, and professionalism. The Center includes 17 fully equipped patient exam rooms, a central control room for exam administration and recording of all activities, and a computer software system that focuses on the capture, debriefing, and assessment of medical training. The building also features an advanced simulation learning center. The Simulation Lab is a four-suite lab that utilizes high-fidelity human patient simulators with physiologically accurate responses to stimuli to enhance learning and assess competency. The lab is equipped with a fully operational anesthesia suite, a trauma suite, and a general ward environment. The Simulation Lab has two debriefing rooms for immediate feedback on performance as well as a large central control room for all simulation activities.

In addition, the 40,000-square-foot Plumwood House is devoted to basic research in the fields of neurological disorders, diagnostic systems and reagents, and industrial bioreactors. In this facility, faculty from the Department of Biological Chemistry share laboratory space with corporate researchers.

Outpatient services are available on campus through the Louis A. and Helen C. Gottschalk Medical Plaza and the Beckman Laser Institute. The Plaza capitalizes upon the broad range of diagnostic and therapeutic programs of the School as well as the extensive clinical expertise of the faculty. The facility offers primary care and specialty services. Special programs in diabetes, multiple sclerosis, Alzheimer's disease, and inflammatory bowel diseases also are offered. The Plaza also houses UC Irvine Corporate Health Services and the Gavin Herbert Eye Institute, which offers the latest in diagnostic health care for eye diseases, including computerized refraction analysis, glaucoma diagnosis, and ultrasound analysis of eye disorders.

Housing one of the world's leading programs in medical laser technology, the Beckman Laser Institute offers state-of-the-art treatment for cancer and dermatological conditions. The Institute specializes in the development and application of laser and other optical technologies for the diagnosis and treatment of disease.

## **Biomedical Research Center**

UC Irvine's Biomedical Research Center (BRC) is a landmark public-private collaboration between UCI and businesses involved in biomedical, biotechnological, and healthcare services. The Center enables UCI researchers and participating companies to work alongside one another, combining basic science, clinical study, and product development to find new approaches to the diagnosis and treatment of disease. The William J. Gillespie Neuroscience Research Facility, the first of several BRC buildings, is the home of a core group of prominent scientists investigating the causes and cures for neurological disorders, including Alzheimer's disease, Parkinson's disease, schizophrenia, and spinal cord injury. The second building is the Robert R. Sprague Family Foundation Hall, where scientists work to reveal the role of genetics in cancer treatment and prevention. The third building, the Dottie and George Hewitt Research Hall, is home to a state-of-the-art General Clinical Research Center and internationally recognized investigators studying infectious diseases, molecular medicine, immunology, and complementary and alternative medicine. The Sue and Bill Gross Stem Cell Research Center is the fourth building in UCI's Biomedical Research Center. Opened in 2010, this state-of-the-art research and clinical building

fosters a multi-pronged approach to neurodegenerative repair and basic stem cell biology by supporting basic research, regenerative medicine, and drug-development programs.

## Chao Family Comprehensive Cancer Center

The Chao Family Comprehensive Cancer Center is the only National Cancer Institute-designated facility in Orange County and one of only 41 such centers in the country. Overall, more than 100 faculty members at the Cancer Center are involved in several major research programs, encompassing everything from basic research that looks at how cancer cells grow to bone marrow transplantation. Located at the UC Irvine Medical Center in Orange, the 56,000-square-foot facility provides an ideal setting for the practice of all the basic and clinical subspecialties involved in adult and pediatric oncology, including the application of the latest techniques for diagnosis and management of patients with cancer.

## University of California, Irvine Health

UC Irvine Health comprises the clinical, medical education and research enterprise of the University of California, Irvine. As the only university-based care provider in Orange County, the multifaceted organization is dedicated to the discovery of new medical frontiers, to the teaching of future healers and to the delivery of the finest evidence-based care. UC Irvine Medical Center is a 411 bed acute care hospital providing tertiary and quaternary care, ambulatory and specialty medical clinics, behavioral health and rehabilitation. It is the primary teaching hospital for UC Irvine School of Medicine.

- UC Irvine School of Medicine (<http://www.som.uci.edu>), one of the top U.S. medical schools for research, is where our groundbreaking research and treatment advances are imparted to the rising practitioners of tomorrow.
- UC Irvine Medical Center (<http://www.ucirvinehealth.org/locations/orange/uc-irvine-medical-center>) has been rated among the nation's best hospitals by (<http://www.ucirvinehealth.org/news/2014/07/2014-americas-best-hospitals>) *U.S. News & World Report* for 14 years. It is also ranked among the top 50 U.S. medical centers in ear, nose, and throat, geriatric, and nephrology care.
- The Chao Family Comprehensive Cancer Center (<http://www.ucirvinehealth.org/medical-services/cancer-center>) is one of only 41 in the nation — and the only one in Orange County — designated for excellence by the National Cancer Institute.
- UC Irvine Medical Center is Orange County's only Level I adult and Level II pediatric trauma center, which means trauma and critical care physicians are fully equipped to treat life-threatening injuries 24 hours a day, seven days a week.
- The Comprehensive Stroke & Cerebrovascular Center is the first in Orange County to be certified as a Comprehensive Stroke Center by the nation's preeminent healthcare standard-setting organization.
- Numerous health providers throughout Orange County apply the most advanced medical knowledge — for diabetes, neuromuscular disease, women's health, and more.
- This union of discovery, teaching and healing has enabled UC Irvine Health to pioneer new therapies and techniques that have been adopted by institutions across the nation.

More information is available at the UC Irvine Health website (<http://www.ucirvinehealth.org>).

## UCI Family Health Center-Santa Ana

The UCI Family Health Center-Santa Ana is a state-of-the-art primary care facility, conveniently located near the Santa Ana Civic Center. The Center has two missions—healthcare delivery and medical education.

As a community clinic, the Family Health Center's multilingual physicians and staff are committed to providing quality health care to patients, including the medically under-served. It provides primary care services to people of all ages including family medicine, preventive care for children and adults, and specialty care in pediatrics and obstetrics and gynecology.

As an integral part of the UCI School of Medicine, the Family Health Center provides educational and training opportunities for medical and nurse practitioner students, including the UCI Family Medicine and Obstetrics and Gynecology residency training programs.

## UCI Family Health Center-Anaheim

The UCI Family Health Center-Anaheim provides care for more than 20,000 outpatient visits annually and training programs for resident physicians in primary care, general internal medicine, and general and adolescent pediatrics. There are additional programs in gynecology, dermatology, general surgery, podiatry, neurology, ophthalmology, optometry, orthopedics, psychiatry, and multispecialty faculty practice. The Center provides training for medical students in their primary care, general pediatric, adolescent medicine, and geriatric medicine rotations and electives.

## Affiliated Hospitals and Clinics

Additional major teaching and research programs of the School of Medicine are conducted at the Veterans Affairs Long Beach Healthcare System, Children's Hospital of Orange County (CHOC), Long Beach Memorial Medical Center, and Miller Children's Hospital (Long Beach). Other academic programs are conducted in affiliation with Kaiser Foundation Hospital (Anaheim, Bellflower, Irvine, and Riverside), Children's Hospital of Los Angeles, Western Medical Center (Tustin/Santa Ana), and St. Jude's Hospital (Fullerton).

## School of Medicine Alumni Relations

The UCI School of Medicine is an outgrowth of what began in 1896 as the Pacific College of Osteopathy (PSO). Some years later it became the College of Osteopathic Physicians and Surgeons, which then evolved into the California College of Medicine in 1962 and subsequently joined the UC system

in 1965. The Office of Alumni Relations provides programs and services for nearly 5,000 alumni of the School as well as for students. From financial support to Honor's Night awards, mentorship to reunions, the Office of Alumni Relations seeks to provide a cornerstone from which students and alumni can benefit from their relationships to one another and in so doing, strengthen the School of Medicine.

## The M.D. Program

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## Admissions

All inquiries regarding the UC Irvine School of Medicine's admission programs and procedures should be directed to:

**University of California, Irvine**  
**School of Medicine**  
**Office of Admissions and Outreach**  
**Medical Education Building**  
**Irvine, CA 92697-4089**

**949-824-5388 or 800-UCI-5388**  
**<http://www.meded.uci.edu/admissions/>**

The UC Irvine School of Medicine is a member of the American Medical College Application Service (AMCAS). All students who seek entrance to the UC Irvine School of Medicine must complete the American Medical Colleges Application Services (AMCAS) (<http://www.aamc.org/students/amcas/start.htm>) application. Applications must be submitted between June 1 and November 1 of the year preceding anticipated admission.

Additional information for the following programs is included below: Medical Scientist Training Program (MSTP, M.D./Ph.D.) (p. ), M.D./M.B.A Program (p. ), MD/MPH program (<https://www.meded.uci.edu/curricular-affairs/md-mpg.asp>), and Program in Medical Education for the Latino Community (PRIME-LC (p. )).

## Selection Factors

The UC Irvine School of Medicine seeks to admit students who are highly qualified to be trained in the practice of medicine and whose backgrounds, talents, and experiences contribute to a diverse student body. The Admissions Committee carefully reviews all applicants whose academic record and MCAT scores indicate that they will be able to handle the rigorous medical school curriculum. In addition to scholastic achievement, applicants are evaluated on their extent and level of research involvement, exposure and involvement in a health care setting, and community service. Dedication, reliability, altruism, and leadership as well as interpersonal communication skills are attributes that are given high regard when considering applicants for a position in the class. Careful consideration is given to applicants from disadvantaged backgrounds and those that have demonstrated the potential to work with the medically under-served, in particular the Latino population in California.

After receipt of the AMCAS application, applicants may be invited to complete a secondary application and will be required to submit a nonrefundable application fee of \$105. Upon further review by the Admissions Committee, approximately 600 applicants will be invited to interview. Regional interviews are not available.

## Requirements for Admission

Students can be considered for admission to the School of Medicine if they meet the following requirements:

1. All applicants must complete the American Medical Colleges Application Service (AMCAS) application (<https://www.aamc.org/students/applying/amcas>) between June 1 - November 1, of the application year. Applicants must have a minimum of three years (90 semester units) of undergraduate coursework at an accredited U.S. college or university at the time the application is submitted. All course work must be verified by AMCAS before an applicant can be advanced to the admissions process. For purposes of evaluation, letter or numerical grades are preferred for course work, particularly for the required subjects listed below. All prerequisite courses listed as "in progress" on the AMCAS application and UC Irvine School of Medicine Secondary Application must be successfully completed by July 15 of the matriculation year. Failure to meet the requirements or falsification of information are grounds for rejection or dismissal.

2. Applicants must complete the following college course requirements prior to matriculation:

Subject	Requirement	Comments
Biology	1.5 Years: 3 semesters or 5 quarters.	Must include one upper-division Biology course.
Chemistry	2 Years: 4 semesters or 6 quarters.	Must include biochemistry, inorganic and organic chemistry courses.
Physics	1 Year: 2 semesters or 3 quarters.	

3. Applicants are strongly encouraged to have completed their basic science requirements at the time they submit their application. No specific major is required, however, demonstrated ability in the sciences is of great importance. In addition, applicants are advised to take advantage of the intellectual maturation afforded by a well-rounded liberal arts education. English, the humanities, and the social and behavioral sciences are considered particularly important. The following courses are also recommended but not required: molecular biology, cell biology, genetics, vertebrate embryology, psychology, biostatistics, calculus, English composition, and Spanish.
4. Medical College Admissions Test (MCAT) (<https://www.aamc.org/students/applying/mcat>) must have been taken within the three years preceding June 1 of the application year and no later than September 30 of the application year.
5. Three to six letters are suggested. We recommend that at least two of the letters be from senior professors who can evaluate your academic abilities. If you have been involved in research, clinical, community service, or other significant extracurricular activities, it is recommended that you submit a letter from your mentor, supervisor or advisor. The Admissions Committee will only be reviewing letters of recommendation from those applicants who received a secondary application.
6. A criminal background check is conducted on all accepted applicants.
7. All students matriculating to the UC Irvine School of Medicine must be able to meet the Technical Standards available at the School of Medicine Admissions website (<http://www.meded.uci.edu/admissions>).

## Outreach

Outreach efforts coordinated by the Office of Diversity and Inclusion housed in the School of Medicine are designed to introduce students to the medical profession during their high school and undergraduate education. An additional goal of this office is to build a pipeline of potential candidates for medical school and recruit students from socioeconomically disadvantaged groups who those that have a desire to serve in the medically underserved communities in California.

## Medical Student Advisor System

The School of Medicine provides a comprehensive academic advising and assistance program that spans the full duration of the students' educational program.

### Academic Skills Assessment

All entering students undergo an academic skills assessment during the new student orientation. Students then meet individually with the associate dean for student affairs, the academic skills coordinator, and the School of Medicine psychologist to discuss study skills, early performance, and overall adjustment to medical school. Additional services are provided on an as-needed basis by the academic skills coordinator and the SOM psychologist.

### Academic Advisors

**Julianne Toohey, M.D., Associate Dean Student Affairs:** 949-824-4617

**Geraldine Codd, Academic Skills Coordinator:** 949-824-3415

Student academic performance during the first two years is monitored on a monthly basis by the Educational Support Committee. The committee develops specific action plans for each student experiencing academic difficulty. All students are also assigned a faculty advisor beginning early in their first year. This faculty advisor serves as the student's Clinical Foundations course small-group leader during years one and two. For years three and four, academic advisement occurs primarily via continuing interactions with the student's faculty advisor and the associate dean for student affairs. Also during years three and four, the Educational Support Committee consisting of the Clinical Clerkship Directors periodically reviews student performance. The faculty advisor provides semi-annual reviews and formative feedback regarding student performance as well as general counseling relating to emerging career preferences and year-four scheduling. Students also have access to a group of faculty from various departments who have agreed to provide specialty-specific academic advice in their disciplines. Several workshops are conducted during the second half of year three and early in year four to prepare students for the residency application process. All students also meet individually with the associate dean for student affairs to review their Medical Student Performance Evaluation (dean's letter) and discuss individual residency application strategies. Additional resources are involved on an as-needed basis by the associate dean for student affairs.

### Career Advisors

**Julianne Toohey, M.D., Associate Dean Student Affairs:** 949-824-4617

A four-year Career Advising Curriculum has been developed for all medical students. During the new student orientation, the Assistant Dean of Student Affairs leads a "Career Perspectives" workshop, which provides an overview of the career curriculum and introduces the AAMC Careers in Medicine program to the students. Monthly specialty workshops are provided to the first and second year classes during lunch at the Irvine campus and a two-year rotating schedule of specialties has been developed. Similarly, workshops are given at the Medical Center in Orange for the third year students. Each student entering their third year is assigned a Medical Education Dean to provide more individualized and personal mentorship and career

guidance. All students will meet with this mentor at least three times during each of their third and fourth years. In addition, several workshops are provided throughout the third and fourth year to prepare students for the residency application and Match process.

### **Peer Review and Peer Counseling Program**

**Julianne Toohey, M.D., Associate Dean Student Affairs:** 949-824-4617  
**Anju Hurria, M.D., M.P.H., School of Medicine Psychiatrist:** 714-456-7473

The School of Medicine has an informal peer review process, aimed at early detection and assistance for medical students who are experiencing difficulty such as professional conduct problems, suspected impairment, violation of the honor code, or violation of any University policy, regulation, or rule. The Peer Review Committee is comprised of two representatives from each class, the student body co-presidents, and two advisory faculty members. The committee operates within guidelines set jointly by the School of Medicine administration and the student body. Cases involving serious professional misconduct are referred to the Dean's Office. The Promotions and Honor Committee conducts hearings and may impose sanctions or provide assistance to the student.

### **Medical Scientist Training Program (M.D./Ph.D.)**

**Alan Goldin, M.D., Ph.D., Director;** 949-824-5334

Exceptionally well-qualified students interested in careers in academic medicine and with demonstrated research accomplishments may be considered for admission to the Medical Scientist Training Program (MSTP). Students in this program pursue a combined curriculum for an M.D. from the School of Medicine and a Ph.D. from any of the graduate programs at UCI. The normative time for completion of the program is eight years, and students holding either degree are not eligible for MSTP. The maximum time for completion of the program is 10 years. Additional information is available from the MSTP Administrator's Office, 949-824-5264; [mstp@uci.edu](mailto:mstp@uci.edu); or visit the Medical Scientist Training Program website (<http://www.mstp.uci.edu>).

Applicants for the Medical Scientist Training Program are required to answer supplementary program-specific questions on the secondary application (through the School of Medicine Office of Admissions). Students accepted into the program have the option of pursuing graduate study in any of the graduate programs at UCI. Although a specific graduate department need not be chosen at the time of admission, students are expected to have selected a field for their graduate studies. Financial support in the form of a fellowship, which includes a stipend as well as tuition and fees, is provided. Applicants not accepted into MSTP may be considered separately for admission to the School of Medicine.

### **M.D./M.B.A. Degree Program**

**Kyle Parades, MD, MBA., Program Director;** 949-824-5932

The M.D./M.B.A. program requires five or six years for completion. It is aimed at individuals who are exceptional in ability and motivation and who seek a career as physicians with major responsibility for administration and management in health care organizations and institutions. Students in this program pursue a combined curriculum for an M.D. from the School of Medicine and an M.B.A. from The Paul Merage School of Business.

Students must be currently enrolled in the M.D. program in order to apply to the combined M.D./M.B.A. program. During their second year of medical school, interested students submit an application to The Paul Merage School of Business Admissions Committee, after review by the School of Medicine. Final acceptance to the program is granted by The Paul Merage School of Business, and M.B.A. course work begins following completion of the student's third year of medical school. Students should be aware that enrollment in the M.D. program does not guarantee acceptance into the M.B.A. program.

The MCAT, along with the completion of three years of medical school training in good standing and passage of USMLE Step 1, currently serve as a waiver for the GMAT entrance examination usually required for application to the M.B.A. program.

### **Program in Medical Education for the Latino Community (PRIME-LC)**

**Charles Vega, M.D., Director;** 949-824-7136

A carefully selected group of students from diverse backgrounds and with superior academic credentials, proven commitment to service, and solid conversational Spanish will be considered for acceptance to the Program in Medical Education for the Latino Community (PRIME-LC) at the UCI School of Medicine. PRIME-LC responds to the increasing demand for physician-leaders who are culturally and linguistically competent to address the health care delivery, research, and policy needs of underserved Latino communities in California. Students in PRIME-LC complete additional value-added curriculum in addition to their medical training in order to reach their goals of leading communities, and they also complete a Master's degree program of their choice. The first residency positions in any UC PRIME opened in the UCI Family Medicine program in 2010.

The PRIME-LC supplemental application is part of the UCI School of Medicine secondary application and must be completed to be considered for acceptance. Applicants selected for faculty and student interviews are required to undertake a third interview in Spanish to evaluate conversational skills and commitment to service. All interested applicants, including those who are not currently California residents, are encouraged to complete the PRIME-LC application. All PRIME-LC students receive a substantial financial award in their fifth year of training. Applicants not accepted into PRIME-LC may be considered separately for admission to the regular School of Medicine M.D. program. For more information contact 949-824-7136; [primelc@uci.edu](mailto:primelc@uci.edu); or visit the PRIME-LC website (<http://www.meded.uci.edu/undergraduate-meded/prime-lc.asp>).



## M.D./M.P.H. Program

**Bharath Charkravarthy, M.D., M.P.H., Director**

The M.D./M.P.H. program requires five years for completion. It is aimed at individuals who are seeking a career as physicians concerned about making a significant difference in community disease prevention. Students in this program pursue a combined curriculum for an M.D. degree from the School of Medicine and an M.P.H. degree from the Program in Public Health.

Students must be currently enrolled in the M.D. program in order to apply to the dual M.D./M.P.H. program. During their second or third year of medical school, interested students submit both the Application for Graduate Admission and the School of Public Health Application Service (SOPHAS) application in order to be considered for admission. Final acceptance to the program is granted by the Program in Public Health, and M.P.H. coursework begins following the student's third year of medical school. Students should be aware that enrollment in the M.D. program does not guarantee acceptance into the M.P.H. program.

The MCAT, along with the completion of three years of medical school training in good standing, currently serve as a waiver for the GRE entrance examination usually required for application to the M.P.H. program. The total number of units required to graduate from each program separately are satisfied in the M.D./M.P.H. program.

Contact the M.D./M.P.H. Student Affairs Officer at 949-824-7095 for more information.

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## The M.D. Curriculum

The UCI medical curriculum continues to meet the changing needs of medical education within all four years of instruction. Indeed, the School of Medicine faculty views curriculum development as a continual process and feels that medical education and teaching innovations must be encouraged and supported. The curriculum is designed to encourage medical students to become participants in their education process, to be active rather than passive learners, to become lifelong learners, and to use cooperative and team-learning principles.

UCI is dedicated to the nurturing of humanistic, caring physicians with top-notch clinical expertise and skills. The School strives for this through a curriculum that is not only anchored in the science of medicine but also provides meaningful experiences in the humanistic dimensions of medicine. In this context, the faculty endeavors to provide students with experiences in areas such as communication and empathy, ethics and professionalism, diversity awareness, and cultural sensitivity and medical humanities. The faculty also feels that the curriculum should strive to integrate basic and clinical sciences by bringing substantial clinical material into the early phases of medical education.

The School has achieved vertical integration of the curriculum with the development of a series of "Clinical Foundations" courses. The courses are longitudinal multidisciplinary experiences broadly designed to prepare students for their future careers in medicine through the application of experiential and self-directed learning principles. First- and second-year students begin to prepare for their clerkships through clinical exposures featuring standardized patients and clinical shadowing experiences. These courses also utilize small group learning sessions to reinforce core concepts of patient-physician interactions and introductory clinical reasoning skill development. During the Clinical Foundations course in the third and fourth years, students explore many of the crucial issues first presented during the introductory courses. During this segment greater emphasis is placed on advanced skill acquisition and more mature professional role development.

To satisfy the requirement for the M.D. degree, each medical student must successfully complete the full curriculum. Students must also pass both Step 1 and Step 2 of the United States Medical Licensing Examination (USMLE) and successfully pass a Clinical Practice Examination (CPX) prior to graduation.

An ongoing academic monitoring program is coordinated by the Office of Student Affairs, which identifies students early who might be experiencing academic difficulty and provides them with resources to successfully complete their course work. Faculty advisors are assigned to students during their first and second years. Students have advisory sessions with M.D. faculty prior to the scheduling of their fourth-year course work. A Learning Resources Program is available to provide tutorial assistance and study skills training.

## Curricular Policies

The curricular policies of the School of Medicine are the responsibility of the Curriculum and Educational Policy Committee and the Promotions and Honors Committee. A listing of these policies, as well as information regarding registration, rules and regulations, grading procedures, and requirements for academic advancement, are contained in the *School of Medicine Handbook*, which is available at the School of Medicine Office of the Medical Education website (<http://www.meded.uci.edu>).

**First and Second Years:****Basic Science and Pre-clinical Course Work****First Year**

Clinical Foundations I  
 Anatomy and Embryology  
 Behavioral Science and Ethics 1  
 Histology  
 Immunology  
 Medical Biochemistry and Molecular Biology  
 Medical Genetics  
 Neuroscience  
 Patient-Centered 1 Clerkship  
 Physiology/Pathophysiology

**Second Year**

Clinical Foundations II  
 Behavioral Science and Ethics II  
 Pathology  
 Medical Microbiology  
 Medical Pharmacology  
 Patient-Centered 2 Clerkship

**Third and Fourth Years<sup>1</sup>:****Clinical Science Course Work****Third Year**

Clinical Foundations III  
 Ambulatory Medicine Clerkship  
 General Surgery Clerkship  
 Family Medicine Clerkship  
 Inpatient Medicine Clerkship  
 Neuroscience Clerkship  
 Obstetrics and Gynecology Clerkship  
 Pediatrics Clerkship  
 Psychiatry Clerkship  
 Radiology Clerkship

**Fourth Year**

Clinical Foundations IV  
 Emergency Medicine  
 Intensive Care Unit  
 Senior Subinternship  
 Electives

<sup>1</sup> The sequence of third and fourth years varies.

**Curricular Descriptions****First-Year Curriculum****Clinical Foundations I**

Clinical Foundations I, first of the four-part Clinical Foundations series, serves as the introductory clinical medicine course for first-year medical students. Participating students learn core skills in physician-patient communication, medical interviewing, physical examination, and health promotion. The course is horizontally integrated with the basic science curriculum. The series includes a variety of small and large group sessions taught by two types of faculty: core teachers and community preceptors. Students complete multiple medical interviews, physical examinations, and patient write-ups for which they receive feedback designed to improve proficiency. (*Med Ed 554A-B-C*)



### **Anatomy and Embryology**

The structure of the human body is taught in Anatomy and Embryology. Emphasis is placed on normal structure as it relates to function, with consideration of abnormal structures that may be revealed in a clinical setting. Anatomy is taught through a regional approach, with an emphasis on laboratory dissections and demonstrations, augmented by lectures, radiographic films, discussions, and clinical correlate material. The course includes a detailed consideration of the embryologic aspects of human development. *(Med Ed 500A-B)*

### **Behavioral Science & Ethics I**

This clinically oriented course will cover foundation topics in behavioral science and medical ethics, and will introduce clinically relevant social issues such as dealing with domestic violence as it presents clinically, treating minority or under-served populations and cultural competence. *(Med Ed 505A)*

### **Histology**

Histology is designed to provide students with knowledge of the major features of the structural organization of cells, tissues and organs, and how that organization is related to function. Emphasis is placed on normal structure and function, with consideration of abnormalities in clinical cases. *(Med Ed 503A-B)*

### **Immunology**

Immunology covers the cellular and molecular basis of immune responsiveness and the roles of the immune system in both health and disease. The material is presented in lectures and clinical correlates.

### **Medical Biochemistry and Molecular Biology**

This course covers the following topics from a biomedical perspective: protein and nucleic acid biochemistry, carbohydrates, lipids, amino acids, purines and pyrimidines, genome structure, molecular mechanisms of development, and signal transduction. *(Med Ed 522)*

### **Medical Genetics**

Medical Genetics reviews the basic principles of human genetics related to disease. Assessment of patterns of genetic risk, screening for genetic diseases, and cytogenetics and biochemical diagnosis are presented. Utilization of the human gene map and DNA sequence information for molecular genetic diagnosis are discussed. Students are introduced to the use of genetic databases and bioinformatics. Approaches to treatment of genetic diseases are presented. Legal, ethical, and social aspects of diagnosis and management of genetic disease are discussed. *(Med Ed 511)*

### **Neuroscience**

The objective of this course is to provide students with the fundamental concepts, vocabulary, and learning strategies to attain a level of proficiency in basic integrative neurosciences so that they will develop an understanding in the clinical neurosciences throughout their careers as physicians. The course is integrative in the sense that the underlying knowledge of molecular, cellular, physiological, developmental, and neuroanatomical organization of the nervous system is brought together in each lecture block with clinical themes and examples in lectures, and which is further reinforced by clinical correlates given by clinicians. The course emphasizes knowledge of the nervous system using lessons from clinical neuroanatomy, systems neurosciences, and regional and developmental neuroanatomy. *(Med Ed 502A)*

### **Patient-Centered 1 (PACE-1) Clerkship**

This course is designed to introduce clinical skills to students and integrate basic science training through early exposure to the clinical setting. Training will be accomplished with weekly clinic sessions with a specific preceptor, with reflection sessions to reinforce clinical lessons. Students will be expected to achieve learning objectives in patient care, professionalism, interpersonal and communication skills, and medical knowledge. *(Med Ed 557)*

### **Physiology/Pathophysiology**

This course consists of lectures, clinical correlates, hands-on workshops, small group discussions, and exercises in the simulation center covering the classical concepts of medical physiology. Specific topics include hemostasis, blood, neurophysiology, cardiovascular, respiratory, renal, gastrointestinal, endocrine, exercise, temperature regulation, and sexual physiology. *(Med Ed 543A-B)*

## **Second-Year Curriculum**

### **Clinical Foundations II**

Clinical Foundations II, second of the Clinical Foundations series, builds second-year medical students' clinical skills. Students learn advanced skills in history-taking, physical diagnosis, and clinical reasoning. Clinical didactics sessions synthesize learning in the clinical and basic sciences. The course is comprised mostly of small-group sessions taught primarily by two types of faculty: core clinical teachers, and community clinical teachers. With these faculty, students work on focused, guided practice of clinical skills that integrates basic science course work. *(Med Ed 555A-B)*

### **Behavioral Science & Ethics II**

This clinically oriented course will cover foundational topics in behavioral science and medical ethics, and will introduce clinically relevant social issues such as dealing with domestic violence as it presents clinically, treating minority or underserved populations and cultural competence. *(Med Ed 505B)*

**Clinical Pathology**

This course consists of lectures and laboratories covering the areas of hematology, blood bank, clinical chemistry, and microbiology. It provides students with a foundation for understanding the pathogenesis of a variety of disease states, as well as a foundation for the proper use of the laboratory for diagnosis and optimum patient management. *(Med Ed 509A-B)*

**General and Systemic Pathology**

This course deals with basic causes, mechanisms, and consequences of disease processes and with some applications of these considerations to clinical medicine. After an introduction to general types of disease processes, these processes are studied further as they affect specific organs and organ systems. *(Med Ed 508A-B-C)*

**Medical Microbiology**

This course covers the biology of infectious agents, including viruses, bacteria, fungi, and parasites, to provide the foundation in microbiology for the subsequent study of infectious diseases. Lectures, small group sessions with clinicians, and laboratory sessions are used to teach the molecular bases of microbial pathogenesis, diagnostic testing, antimicrobial therapy, and prevention strategies. *(Med Ed 507A, B)*

**Medical Pharmacology**

This course covers the various classes of drugs that are used in medicine, particularly those used in specific or symptomatic treatment of disease states. Drugs of abuse are also covered. Emphasis is on the mechanisms of action of drugs at the organ and system level and on their use in medicine. The course includes lectures that illustrate pharmacologic principles, supplemented by small group problem-solving sessions. *(Med Ed 517A-B-C)*

**Patient-Centered 2 (PACE-2) Clerkship**

This course continues the processes of PACE-1 to build students' clinical skills and create a bridge between the basic and clinical sciences. Training will be accomplished with weekly clinic sessions with a specific preceptor, with reflection sessions to reinforce clinical lessons. Students will be expected to achieve learning objectives in patient care, professionalism, interpersonal and communication skills, practice-based learning and improvement, and medical knowledge. *(Med Ed 558 A and B)*

**Third-Year Curriculum****Clinical Foundations III**

Clinical Foundations III, held at the beginning of the third year, provides further preparation for third-year clinical rotations. Additionally, intersessions are planned during the third year to provide integration of clinical material across longitudinal topics that cross several disciplines. This preparation includes, but is not limited to clinical IT training with access to Electronic Medical Records, obtaining privileges at all of the primary clinical sites, discussions on team care, leadership, professionalism, management of assault behavior training, infection prevention, and basic life support. *(Med Ed 550)*

**Ambulatory Medicine Clerkship**

The Ambulatory Medicine clerkship occurs in a highly structured clinical environment in both in-patient and ambulatory settings. Students gradually assume responsibility for the care of patients, thereby enhancing their clinical, diagnostic, and procedural skills. *(Med Ed 527B)*

**General Surgery Clerkship**

The General Surgery clerkship provides students, as members of the surgical team, with an opportunity to study surgical patients in outpatient and hospital settings. Students acquire surgical knowledge, as well as develop skills in taking surgical histories and conducting physical examinations. Emphasis is placed on the clinical evaluation, pathogenesis, diagnosis, and treatment of surgical diseases. *(Med Ed 526)*

**Family Medicine Clerkship**

This clerkship matches students with a family physician for a four-week block. Students are assigned to a UCI-affiliated clinic where the principles of family medicine and primary care are taught. Emphasis is placed upon exposing students to the most common health care problems seen in family medicine. Students are exposed to the principles of community health and epidemiology, as practically applied in an ambulatory care setting. Students develop an awareness of the current health care delivery environment, including issues such as health care costs and the lifestyle of a family physician. Special tracks are available for interested students in geriatrics, integrative medicine, and under-served care. Special teaching sessions on family centered maternity care, health maintenance and nutrition, and musculoskeletal joint exams are part of the experience. A curriculum in ophthalmology is also part of the clerkship. *(Med Ed 597)*

**Inpatient Medicine Clerkship**

The eight-week Inpatient Medicine Clerkship occurs in a highly structured clinical environment in-patient setting. Students gradually assume responsibility for the care of patients, thereby enhancing their clinical, diagnostic, and procedural skills. Clinical vignettes and bedside teaching serve to round out the experience. *(Med Ed 527B)*

**Neuroscience Clerkship**

The four-week Neuroscience clinical clerkship emphasizes the development of skills in taking a neurological history, performing a neurological examination, formulating a differential diagnosis, and proposing a course of management for neurological disorders. Students have the option of further training in Neurosurgery or pediatric sub-specialty rotations. *(Med Ed 532)*

### **Obstetrics and Gynecology Clerkship**

During the six-week clinical clerkship, students are given the opportunity to observe and handle problems in the obstetrical and gynecologic wards, outpatient clinic, labor and delivery suite, and in the operating room. *(Med Ed 524)*

### **Pediatrics Clerkship**

This clinical clerkship serves as an introduction to general pediatrics. Students rotate on the pediatric inpatient service, pediatric ambulatory settings, and the newborn nursery. During the clerkship, students develop their knowledge and skills in conducting age-appropriate patient histories and physical examinations and developing differential diagnoses and management plans. *(Med Ed 528)*

### **Psychiatry Clerkship**

This six-week clinical clerkship provides an opportunity for hands-on experience in the process of recognizing, diagnosing, and treating mental illness using the latest neuropharmacological advances, as well as more traditional psychotherapeutic approaches. Each student participates fully in patient care, clinical teaching, and conferences. *(Med Ed 529)*

### **Radiology Clerkship**

Emphasis is given to correlate clinical findings and use the imaging modalities for problem-solving and diagnosis and treatment, including an understanding of risk/cost/benefit ration involved in daily clinical practices. *(Med Ed 533)*

### **Fourth-Year Curriculum**

#### **Clinical Foundations IV**

This is a two-week required course that all fourth-year students take during the final quarter in medical school in preparation for residency training. Intersessions are also planned during the fourth year to help prepare students further for residency. The course includes a resuscitation boot camp and provides an opportunity to obtain an ACLS certification. *(Med Ed 535)*

#### **Emergency Medicine**

This two-week clinical clerkship introduces students to principles of acute care medicine while caring for acutely ill and injured patients. Students have the opportunity to evaluate patients, expand their directed history and physical making skills, create a broad differential diagnosis, and formulate effective testing and treatment strategies. Active participation in patient care through refinement of procedural skills is largely emphasized and encouraged. *(Med Ed 547)*

#### **Intensive Care Unit**

This is a four-week clinical clerkship offered at one of several UC Irvine affiliated sites. ICU is offered in medicine, surgery, neurology, and pediatrics. Students function as subinterns, becoming integral members of the ICU team, and serve as primary caregivers under supervision. *(Med Ed 605B, 630K, 633M, 640E, 660S or 685U)*

#### **Senior Subinternship**

Students spend four weeks as subinterns during which time they carry the full ward responsibility of an intern on one-half the number of patients usually carried by an intern. The subinternship is designed to improve clinical competence and to prepare the students for the challenges and demands of the internship. Students may choose between subinternships in family medicine, medicine, pediatrics or surgery. *(Med Ed 536, 537, 538, 539, or 625Q)*

#### **Electives**

Depending upon their particular interests, needs, and goals, students may take a variety of elective courses during the third and fourth years at UC Irvine Health facilities, VA Long Beach Healthcare System, Children's Hospital of Orange County, Long Beach Miller Children's Hospital, or Long Beach Memorial. Students may also take their fourth-year elective course work at other approved institutions. .

A listing of elective courses and descriptions can be found online here (<http://www.meded.uci.edu/curricular-affairs/course-catalog.asp>).

**All questions regarding the curriculum, electives, or matters of records should be directed to:**

**University of California, Irvine  
School of Medicine  
Office of Medical Education  
Medical Education Building  
Irvine, CA 92697-4089**

General information/records: 949-824-6138; scheduling: 714-456-8462; curriculum: 949-824-4609.

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## Office of Medical Education

**Khanh-Van Le-Bucklin, M.D., Senior Associate Dean of Medical Education:** 949-824-8405

**Julie Youm, PhD., Assistant Dean of Education Compliance and Quality:** 949-824-3913

**Shaun Langer, Chief Administrative Officer:** 949-824-1567

The Senior Associate Dean for Medical Education, in cooperation with the Academic Senate faculty, has responsibility for administrative oversight of the educational program leading to the M.D. degree, postgraduate residency and fellowship programs, and continuing medical education programs provided for practicing physicians and allied health personnel. Housed within the Office of Medical Education are the divisions of Admissions and Outreach, Curricular Affairs, Student Affairs, Instructional Technologies, Graduate Medical Education, and Continuing Medical Education. Medical Education provides services for the M.D. program, which include curriculum development, implementation, management, and evaluation. The Office of Medical Education offers student support services, which include academic advisement, learning skills counseling, psychological counseling, career counseling, and student records. It also coordinates additional services offered through general University offices, which include housing, student health, and disabled student services.

### Student Affairs

**Julianne Toohey, M.D., Associate Dean of Student Affairs:** 949-824-1772

**Kyle Parades, M.D. M.P.H, Assistant Dean of Student Affairs:** 949-824-1129

**Carol Major, M.D., Assistant Dean of Student Affairs:** 714-456-6707

**Nancy Guirguis, Ed.D., M.S.W., Director of Student Affairs:** 949-824-4617

**Nicholas Cheung, M.H.A., Registrar:** 949-824-5283

**Geraldine Codd, Ed.D., Academic Skills Coordinator:** 949-824-3415

**Anju Hurria, M.D., School of Medicine Psychiatrist:** 714-456-7473

The mission of the Office of Student Affairs is to create an environment within the School of Medicine community that fosters student wellbeing attainment of the School of Medicine educational objectives. This is accomplished through assuring that student participation in the educational program occurs in a manner consistent with School of Medicine policies and regulations, and through the provision of support services that facilitate optimal student participation in the educational program. To accomplish the educational assurance mission, the Office of Student Affairs disseminates information regarding academic policies and regulations, provides administrative and executive support for the faculty Committee on Promotions and Honors, and facilitates the institutional recognition of student achievement through the conduct of various School of Medicine events. To accomplish the educational support mission, the Office of Student Affairs provides academic, personal, psychological, career, and financial counseling; academic skills assessment and learning resources support, student wellness programs, student facilities support, initiatives to enhance the learning environment, and support for a variety of student organizations and informal activities.

### Financial Aid

**Luis Medina, Director:** 949-824-6476

**Andrea Gonzalez, Counselor:** 949-824-6476

The UCI School of Medicine Financial Aid Office provides financial assistance and financial counseling services to entering and continuing medical students. The office secures, manages, and provides funds in the form of scholarships, grants, and loans to assist in meeting students' educational expenses.

The office coordinates financial aid application materials; tracks documents needed to complete an application; reviews and evaluates information provided by applicants; awards financial aid programs; and conducts research to determine basic educational expense budgets. It also provides students with information on policies and procedures, cost of attendance, and eligibility criteria.

In providing counseling services, the office advises students, reviews their individual circumstances, and provides financial assistance within financial aid program guidelines. It presents financial aid workshops for prospective and enrolled students to enhance their knowledge about financial aid programs and the application process, provides financial literacy and debt management counseling, and conducts entrance and exit interviews.

### Curricular Affairs

**Warren Wiechmann, M.D., M.B.A., Associate Dean of Curricular Affairs - Clinical Sciences:** 949-824-8358

**Jeffrey Suchard, M.D., Associate Dean of Curricular Affairs - Basic Sciences:** 949-824-1129

**Terri Dean, Director:** 949-824-4609

This office provides support related to curricular issues for the School of Medicine, departments, faculty, and students; initiates curriculum review and innovation to meet the challenges of contemporary medical education; establishes and reviews the objectives of the School of Medicine and ensures

individual courses are teaching to meet the objectives; serves as facilitators of new programs and curriculum and supports working committees during curriculum development; facilitates and monitors curriculum content theme integration; and maintains records on course materials and grading policies. This office is responsible for curriculum documentation for review by the Curriculum and Educational Policies committee; the collection of course evaluations by students; maintaining accurate information on core and elective curriculum; and assessing the success of the current programs.

## Educational Technology Group

**Warren Wiechmann, M.D., Associate Dean of Educational Technology:** 949-824-6138

**Julie Youm, Ph.D., Director**

The Educational Technology Group is tasked with providing top-quality technology, innovation and support for UC Irvine School of Medicine faculty, students, and staff. We work closely with Medical Education to develop novel uses of technology within the medical school setting that will enhance the overall educational experience for our students.

## Continuing Medical Education

**Ellen Seaback, CMP, CAE, CHCP, Executive Director:** 949-824-1150

The Office of Continuing Medical Education provides educational activities to physicians and other health care professionals to reinforce basic medical knowledge, improve competency, enhance performance-in-practice, and improve the outcomes of patient care. Additionally, these activities impart evidence-based updated information on clinical practice and health care delivery; introduce new ideas, skills, and technologies; and disseminate pertinent research findings. The program encompasses a broad and comprehensive range of topics based on identified gaps in the learning needs of the communities served. As an academic center of excellence that includes the UC Irvine Medical Center, emphasis is placed on the identification of areas for improvement through the system's Patient Safety and Quality Improvement Department for which CME is a change-agent. UCI School of Medicine is accredited by the ACCME with commendation.

## Graduate Medical Education

**Deena Shin McRae, M.D., Associate Dean of Graduate Medical Education:** 714-456-3526

**Matthew Dolich, M.D., Assistant Dean of Curricular Affairs - Basic Sciences:** 714-456-3526

**Courtney Strayer, Director:** 714-456-3526

The UC Irvine School of Medicine attracts top students from prestigious medical schools and talented residents from reputable training programs nationwide, offering 59 ACGME-accredited residency and fellowship training programs with approximately 700 positions. UC Irvine Medical Center, Tibor Rubin Veterans Affairs Medical Center, Children's Hospital of Orange County, Long Beach Memorial Medical Center and Miller Children's Hospital are the integrated training sites for the graduate medical education programs.

Residents in all programs rotate to UC Irvine Medical Center. Residents in anesthesiology, emergency medicine, dermatology, diagnostic radiology, interventional radiology, internal medicine, subspecialties of medicine, neurology, ophthalmology, pathology, surgery, physical medicine and rehabilitation, radiation oncology, family medicine, orthopaedics, otolaryngology, plastic surgery, urology, and psychiatry also rotate to the Tibor Rubin Veterans Affairs Medical Center in Long Beach. Residents in medicine, medicine sub-specialties, anesthesiology, radiation oncology, psychiatry, obstetrics and gynecology, pathology, pediatrics, physical medicine and rehabilitation, plastic surgery, and surgery also rotate to the Long Beach Memorial Hospital Medical Center/Miller Children's Hospital. UCI also has an established affiliation with the Children's Hospital of Orange County (CHOC), which is a major training site for the combined program in pediatrics and other specialties. Other affiliations such as Kaiser Permanente, Orange County Global Medical Center, St. Jude's Hospital, and Children's Hospital Los Angeles offer additional training in specialized fields.

Inquiries about specific programs should be directed to the Program Director as listed in the *Directory of Residency Training Programs*, published each year by the American Medical Association, or to the Chair of the appropriate School of Medicine department.

All ACGME-accredited residency and fellowship programs meet the formal standards of the Accreditation Council for Graduate Medical Education and the appropriate specialty boards. The University of California, Irvine (UCI) adheres to the Health Professions Educational Assistance Act of 1976, P.L. 94-484, Section 709, regarding shared-schedule residency training positions.

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## Residency Programs

The School of Medicine and its affiliated hospitals offer approximately 700 residency positions in almost all areas of medicine. Training levels range from first-year residencies through seventh-year-level subspecialty fellowships. Inquiries about specific programs should be directed to the Program Director as listed in the *Directory of Residency Training Programs*, published each year by the American Medical Association, or to the Chair of the appropriate School of Medicine department.

All ACGME-accredited residency and fellowship programs meet the formal standards of the Accreditation Council for Graduate Medical Education and the appropriate specialty boards. The University of California, Irvine (UCI) adheres to the Health Professions Educational Assistance Act of 1976, P.L. 94-484, Section 709, regarding shared-schedule residency training positions.

Residents in all programs rotate to UC Irvine Medical Center. Residents in dermatology, diagnostic radiology, medicine, neurology, ophthalmology, pathology, surgery, physical medicine and rehabilitation, radiation oncology, family medicine, subspecialties of medicine, orthopaedics, otolaryngology, urology, and psychiatry also rotate to the Veterans Affairs Long Beach Healthcare System. Residents in medicine, medicine sub-specialties, anesthesiology, radiation oncology, psychiatry, obstetrics and gynecology, pathology, pediatrics, physical medicine and rehabilitation, plastic surgery, and surgery also rotate to the Memorial Hospital Medical Center/Miller Children's Hospital in Long Beach. UCI also has an established affiliation with the Children's Hospital of Orange County (CHOC), which is a major training site for the combined program in pediatrics and other specialties. Residents and fellows may also spend periods of time at other affiliated hospitals and clinics.

## Allergy/Immunology

The Allergy & Immunology Fellowship Program is a two-year accredited program. It offers training for fellows at the postgraduate PGY-4 to PGY-5 levels. The Fellowship training involves clinical training at the UC Irvine Medical Center and Veterans Affairs Long Beach Healthcare System as well as rotations in affiliates at Children's Hospital of Los Angeles, Breath Mobile at Children's Hospital Orange County, and Miller Children's Hospital, Long Beach. Electives in subspecialty training in Rheumatology, ENT Larynx, ENT Sinus, Sinus Radiology, General Dermatology, Dermatology patch testing, Dermatopath, Pulmonary function testing, Ophthalmology and research opportunities are available.

## Anesthesiology

The Anesthesiology Residency Program is an ACGME-accredited, four-year categorical program. Our program is dedicated to providing an exceptional educational experience to develop the next generation of board-certified physician anesthesiologists and leaders in our field.

Our innovative 4U Didactic Program includes point-of-care ultrasound (POCUS) training, high-fidelity simulations, hands-on workshops, problem-based learning discussions, wellness series, practice management, and professional development. The PGY-1 and CA-1 (PGY-2) years cover the fundamentals of anesthesiology and perioperative medicine to provide a solid foundation on which to build advanced and subspecialty clinical knowledge and skills during the CA-2 (PGY-3) and CA-3 (PGY-4) years. Residents gain broad and diverse clinical experience through rotations at UC Irvine Medical Center, Children's Hospital of Los Angeles (CHLA), Long Beach Memorial Medical Center, Kaiser Permanente Los Angeles, Veterans Affairs Long Beach Healthcare System, and Children's Hospital of Orange County (CHOC). Residents also have the opportunity for participation in medical missions, in partnership with faculty, through our Global Outreach Initiative.

## Anesthesiology Critical Care

The fellowship in Anesthesiology Critical Care Medicine (ACCM) at the University of California, Irvine (UCI) is designed to provide fellows with the opportunity to fulfill the American Board of Anesthesiology subspecialty requirements for certification in anesthesiology critical care medicine (ACCM). This 12-month ACGME accredited fellowship commences after successful completion of residency in Anesthesiology. The ACCM fellow takes an active role in all aspects of the profession and practice of Critical Care Medicine including didactic teaching, presenting, and conducting rounds. In addition, the ACCM fellow is required to actively participating in research projects and other scholarly activities. The major focus and uniqueness of the ACCM Fellowship is to train the fellow in bedside echocardiography and ultrasonography. In addition, the ACCM fellow will have the opportunity to participate in the cutting edge research in minimally invasive and non-invasive hemodynamic monitorings to predict fluid responsiveness and to guide goal-directed therapy for fluid resuscitation.

## Cardiology

The three year teaching program provided by the University of California, Irvine's ACGME-approved Cardiovascular Disease fellowship program is comprised of 16 general cardiology trainees. These fellows rotate through three institutions: UC Irvine Medical Center, Long Beach Veterans Administration Hospital, and Long Beach Memorial Medical Center, which provides additional training and experience in various cardiology subspecialties.

UCI's program in cardiovascular disease adheres to training standards according to ACGME core competencies. Cardiovascular Disease program is dedicated to teaching using didactic lectures/conferences four to five times a week by visiting cardiology physicians, faculty or fellows on recent developments in catheterization methods, electrophysiology, ECG case studies, nuclear cardiology, cardiac CT and MRI, Echocardiography, and other

subspecialty topics. The fellows also take part in weekly outpatient clinics offering direct interaction between fellows with faculty members. All cardiology fellows have six-months of protected research time during their three-year fellowship.

During their training, many fellows will achieve advanced competencies. Many of the UCI fellows pass the nuclear cardiology and echocardiography board exams during the training period. At the end of their training, fellows function as independent and competent consultants, with level II certification in core areas of cardiology.

## **Child Neurology**

The child neurology program offers a traditional three year training program in child neurology for pediatric residents who have completed two or three years of pediatric training, or have participated in the specialized child neurology research track as per the training guidelines of the ABPN. Our program offers a clinically focused curriculum with extensive didactic and bedside teaching. As per ACGME requirements, residents have 12 months of adult neurology training, 12 months of clinical child neurology, and approximately 12 months of elective rotations. Our residents complete the majority of their training at the UCI Medical Center and Children's Hospital of Orange County as well as rotations at various locations including outpatient subspecialty clinics, Center for Autism and Neurodevelopmental Disabilities, and Miller Children's Hospital in Long Beach. Our faculty is all board certified in child neurology and many of the faculty have subspecialty training and board certification in specialties such as epilepsy, clinical neurophysiology, sleep medicine, and neurodevelopmental disabilities. In addition to clinical emphasis, residents have the opportunity for exposure to areas of active clinical research, including epilepsy, concussion, neuromuscular disorders, and sleep.

## **Child Psychiatry**

The Child & Adolescent Psychiatry Fellowship Training Program is a two-year program that builds on the training already completed in a General Psychiatry Residency. It provides subspecialty training in how to specifically evaluate and treat individuals younger than 18 years old by accounting for this population's unique characteristics. Fellows are able to complement their developing knowledge base and clinical decision-making skills with a compassionate, humanistic approach. Our program emphasizes training in biological, psychological, and social modalities, as we strongly believe that a multidisciplinary approach is vital to providing excellent psychiatric care to children, adolescents and their families. Clinical experiences have been developed to provide exposure to the wide variety of psychiatric diagnoses and issues facing children and adolescents, as well as prepare our fellows for the diverse populations they may encounter post-graduation. Training opportunities include: acute inpatient treatment, partial hospitalization, consult-liaison service, emergency psychiatry, trauma-focused therapy clinic for victims of child abuse, school consultation at UCI's Child Development Center, and juvenile forensic rotations.

## **Clinical Neurophysiology**

We offer a one-year fellowship program in clinical neurophysiology, which is accredited by the Accreditation Council of Graduate Medical Education (ACGME). The program is a joint fellowship with CHOC (Children's Hospital of Orange County). Primary emphasis is on adult routine and inpatient video EEG, as well as electrocorticography and functional brain mapping. Fellows also spend 3 months rotating at CHOC, gaining experience in pediatric epilepsy and EEG. Two elective months are available, which may be used to obtain experience in electromyography (EMG) or intraoperative monitoring. Clinical research opportunities are available.

## **Colorectal Surgery**

The Colon and Rectal Surgery Residency Program is a one-year accredited fellowship program available for residents who have previously completed General Surgery training. Fellowship interviews are held during the Fall of the year prior to the anticipated August start date. The Colon and Rectal Surgery fellowship program participates in the NRMP match program. Presently, the fellow spends the entire year on the UC Irvine Medical Center campus rotating with the five colon and rectal surgeons who practice there. In addition, the fellow works with Gastroenterology attending physicians during the year regarding additional endoscopy training. Fellows participate in weekly conferences that include selected educational topics, quality Improvement, journal club, and multidisciplinary conference regarding complex cancer and inflammatory bowel disease management. In addition, travel to meetings is supported for a selected research project during the year. The fellow will undergo extensive training in diseases of the colon, rectum, pelvic floor and anus. Advanced surgical training will include inflammatory bowel disease, colon and rectal cancer, diverticulitis, laparoscopy and robotic surgery, anorectal surgery, pelvic floor disease management, and endoscopy.

## **Combined Anesthesiology and Pediatrics**

The UC Irvine Combined Pediatrics & Anesthesiology Residency Program is one of seven programs in the country approved by the American Board of Anesthesiology (ABA) and the American Board of Pediatrics (ABP).

Our program is dedicated to providing an exceptional educational experience to develop the next generation of board-certified physician anesthesiologists and leaders in both fields. The Departments of Anesthesiology & Perioperative Care and Pediatrics jointly developed the program curriculum. Upon successful completion of our 5-year program, our graduates will be eligible for board certification in both anesthesiology and pediatrics. The first year of residency is focused on pediatrics, followed by anesthesiology during the second year of residency. During years 3 through 5, residents alternate between the two specialties. The rotation blocks have been designed to build on previous experiences so that residents can maintain and build on learned skill sets. Residents gain broad clinical experience through rotations at a variety of training sites, including UC Irvine Medical Center, Long Beach Memorial Medical Center, Kaiser Permanente Los Angeles, Veterans Affairs Long Beach Healthcare System, as well as three freestanding children's hospitals: Children's Hospital of Los Angeles (CHLA), Children's Hospital of Orange County (CHOC), and Miller Children's

& Women's Hospital. Residents also have the opportunity for an advanced adult and pediatric cardiothoracic anesthesiology rotation in Lyon, France, and participation in medical missions, in partnership with faculty, through our Global Outreach Initiative.

## Cytopathology

The Department of Pathology at the University of California, Irvine offers a one-year Cytopathology Fellowship Program. The Program is designed to provide comprehensive training in diagnostic cytology including fine needle aspiration biopsy with surgical pathology and clinical correlation. Training will be provided in both gynecologic and non-gynecologic materials including performance and interpretation of fine needle aspiration biopsies. Fellows are also responsible for the weekly cytology conference, a research project, the cytopathology review courses and workshops given by the University of California, Irvine. In addition to cytopathology responsibilities, fellows will rotate through flow cytometry and image analysis units which are parts of the pathology laboratory. They are exposed to research opportunities that are available in cytopathology, immunocytochemistry, and flow cytometry/image analysis.

## Dermatology

The Department of Dermatology offers a three-year accredited residency which has 15 residents, five for each of three postgraduate years. Residents rotate through clinics at UC Irvine and the Veteran Affairs Long Beach Healthcare System and receive extensive training in medical and surgical dermatology. Residents rotate through specialty clinics which see patients with immunobullous disease, pigmentary disorders, vascular birthmarks, pediatric disorders, hair disorders, and melanoma. Residents receive extensive training in Mohs surgery, laser techniques, excisional surgery, performance of flaps and grafts, and administration of cosmetic agents. Residents are also active in research and present at local, national, and international meetings.

## Emergency Medicine

The Emergency Medicine residency was established in 1988 and has full accreditation by the Residency Review Committee. The program has 24 residents, eight for each of three postgraduate years. The UC Irvine Medical Center Emergency Department is a high-acuity, Level I Trauma Center, treating over 50,000 patients annually. Nineteen board-certified emergency medicine faculty provide 24-hour patient care and supervision of residents and medical students. The Department of Emergency Medicine is active in disaster preparedness and response, emergency uses of ultrasound, public affairs, community service, and research in the areas of prehospital care, educational technology, trauma, health policy, and infectious disease, among others.

## Endocrinology

The fellowship program in Endocrinology, Diabetes and Metabolism at the University of California, Irvine prepares physicians for clinical and academic practice in endocrinology. The principal training sites are the UC Irvine Medical Center (UCIMC) and the Long Beach VA Medical Center (LBVAMC), and additional training is provided at the Children's Hospital of Orange County (CHOC). The fellows are exposed to a broad spectrum of patients, males and females, both in in- and out-patient settings. The patients represent a broad range of ages, spanning from pediatric to endocrine cases associated with aging. The program emphasizes the comprehension of molecular and cellular approaches to determining the pathogenesis and diagnoses of endocrine diseases. This is a two-year accredited program, but additional years of research training can be arranged for physicians interested in academic endocrinology.

## Family Medicine

The University of California, Irvine Family Medicine Residency Program strives to train excellent clinicians who provide the best patient-centered compassionate medical care to our most vulnerable and under-served communities. The residency is a fully accredited program with 27 residents who practice out of the only federally qualified health center that is fully academic in the entire state of California. The residency incorporates technology and innovation in a unique community-academic hybrid educational setting that provides a rich and intensive clinical training medium. Residents obtain exceptional clinical skills while promoting community engagement, patient advocacy and the practice of socially responsible and culturally appropriate care. We aim to graduate physician leaders dedicated to medically under-served communities.

## Female Pelvic Medicine and Reconstructive Surgery (FPMRS)

The Female Pelvic Medicine and Reconstructive Surgery (FPMRS) Fellowship in the Division of Urogynecology/Department of Obstetrics and Gynecology at the University of California, Irvine is accredited by the Accreditation Council for Graduate Medical Education (ACGME). This is a three year fellowship program with training taking place at UC Irvine and two affiliate sites. Fellows rotate with Colorectal surgery and Urology. Post baccalaureate courses and a Masters Degree in clinical research are offered. Fellows are given opportunities to participate in clinical, translational and basic science research. Surgical training focuses on vaginal, laproscopic, and robotic approaches to pelvic organ prolapse and incontinence, sacral nerve modulation, fistula repair, and office procedures. Elective time is provided for global health outreach.

## Forensic Psychiatry

The Forensic Psychiatry fellowship is an ACGME-accredited post-graduate year 5 (PGY-5) program which offers intensive training in both criminal and civil forensic psychiatry principles and practice, landmark mental health law, forensic psychiatric evaluation and report writing, clinical care in forensic settings, and court testimony. Fellows will work with forensic psychiatrists and psychologists as well as attorneys, receiving training in mock trials. Access to the law library services at the UC Irvine School of Law will be provided. The sites include UC Irvine Medical Center and DSH Patton (California Department of State Hospitals). There will be protected time for didactics one day per week and will include seminars on the principles of

forensic psychiatry, landmark mental health case law, forensic psychopharmacology, and a journal club focused on current forensic psychiatry literature. The faculty include some of the most highly respected and well-known experts in this field who are excited by the opportunity to work with the fellow and truly dedicated to the teaching mission.

## **Gastroenterology**

The gastroenterology fellowship training program is a three-year training program. The program focuses on core skills of the gastroenterologist including endoscopy, inpatient consultations, outpatient consultations, and chronic care of GI and liver conditions. Research training is a component of the training program with an emphasis on clinical research. The program offers training to ensure our residents have access to a broad array of career options including community private practice, group practice and academic medicine. Trainees rotate through UC Irvine Medical Center, the Veterans Affairs Long Beach Healthcare System, and Kaiser Hospital. Core program faculty have a special interest in academic gastroenterology, endoscopy, inflammatory bowel disease, high-risk colon cancer, GI motility, and education.

## **Geriatrics**

The Geriatric Medicine Fellowship is a comprehensive and challenging one-year advanced training program that prepares physicians to deliver compassionate, informed care to a diverse aging population. The clinical opportunities allow geriatric fellows to explore both the depth and breadth of geriatric medicine through longitudinal primary care experiences and rotations in a variety of sub specialty clinical settings.

The heart of the fellowship is in UC Irvine's SeniorHealth Center, where fellows have their continuity and consultation clinics. Here, fellows work with a continuity attending on a weekly basis, learning the art and medicine of geriatric ambulatory care. Some of the sub specialty rotations at UC Irvine include a memory disorders clinic, subacute care, neurology, dermatology, cardiology, rheumatology, and more.

At the Veterans Administration Center in Long Beach, fellows participate in the Geriatric Evaluation Management (GEM) clinic, an interdisciplinary program which assesses the medical and psychosocial status of frail older patients. The goal is to optimize each military veteran's health, function, and ability to live with the greatest degree of independence possible. The VA offers inpatient and outpatient geropsychiatry, a Parkinson's clinic, memory and movement disorders, palliative care, aging with disabilities, and physical medicine and rehabilitation.

Our program is also affiliated with skilled nursing facilities, as well as the country's first Elder Abuse Forensic Center. We offer electives in integrative medicine, community resources, or additional experiences in any of the above rotations.

## **Geriatric Neurology**

The Geriatric Neurology Fellowship is a two-three year program accredited through the United Council for Neurologic Subspecialties (UCNS). Fellows enter the program after completing a U.S. ACMGE accredited neurology residency program. During the first year, fellows develop clinical skills in the diagnosis and treatment of the neurologic disorders of aging, particularly dementia and other neurobehavioral disorders. Fellows rotate in various specialty clinics in Neurology and Geriatrics, as well as having exposure to longitudinal research, imaging and clinical trials, and other studies of aging and dementia. During the second and third years, the fellows have additional clinical rotations as well as training in the design and conduct of research.

The fellows will benefit from the rich neuroscience research environment and resources at UCI, with a tradition of training programs across the schools and units including the Departments of Neurology, Family Medicine, and Neurobiology & Behavior, the Alzheimer's Disease Research Center (ADRC), the Institute for Memory Impairments and Neurological Disorders (IMIND), and the Center for Neurobiology of Learning and Memory (CNLM). Throughout the fellowship, electives, and research experience can be tailored to meet individual interests.

## **Gynecologic Oncology**

The Gynecologic Oncology Fellowship in the Division of Gynecologic Oncology/Department of Obstetrics and Gynecology at the University of California, Irvine is a four-year program designed to produce clinician-scientists with expertise in the surgical and medical management of gynecologic cancers in addition to being adept in translational and clinical research with a focus on drug development and population studies. This NIH T-32-supported fellowship has a long track record of producing not only academic gynecologic oncologists, but also key thought leaders in the sub-specialty. The fellowship experience includes 18 dedicated months of translational research during which time trainees complete a graduate thesis and degree as a student in the MS-Biomedical and Translational Sciences (MS-BATS) program [<http://www.som.uci.edu/graduate-studies/education/ms-bats.asp>]. The remaining 30 months are dedicated to graduated responsibility in clinical training at four diverse training sites (St. Joseph's Cancer Center and Hospital, Saddleback Memorial Medical Center, Long Beach Memorial Medical Center, and UC Irvine). Fellows are immersed in administration of chemotherapy (includes peritoneal, HIPEC, and novel therapy), radical cytoreductive surgery, robotic and laparoscopic surgery, and advanced clinical research. Enrichment activities include integrated experiences in palliative care, critical care, pathology, radiation oncology, and cancer genetics. Fellows are encouraged to establish and pursue early career interests, and assistance and support are given for academic retention. The Fellowship is accredited by the Accreditation Council for Graduate Medical Education (ACGME).

## **Hand Surgery**

The University of California Irvine Hand Surgery Fellowship provides comprehensive training not only in hand surgery, but also in upper extremity surgery and microsurgery. The one year ACGME accredited fellowship is based at the UCI Medical Center; Kaiser Permanente – Orange County; Children's Hospital of Orange County and Shriners Hospital of Los Angeles. The 2 fellows rotate with 9 fellowship-trained hand surgeons from both the Department of Orthopaedic Surgery and the Department of Plastic and Reconstructive Surgery. These rotations provide a very high volume of acute trauma and post-traumatic reconstruction of the entire upper extremity, including the hand, wrist, elbow, and shoulder; in addition to a diverse spectrum

of nerve problems, brachial plexus, congenital anomalies, arthritis, and arthroscopy. Fellows gain extensive experience not only in replantation, but also in elective microsurgical reconstruction including toe-to-hand transfers, limb salvage for malignant tumors and soft-tissue coverage, and bony reconstruction of both the upper and lower extremities. Fellows receive one-on-one supervision in the operating room and outpatient clinics, but can also develop their own independent responsibility allowing them to supervise orthopaedic surgery and plastic surgery residents rotating on a combined Hand Service. There is a weekly didactic teaching conference, a monthly journal club, anatomical dissections in a fresh frozen cadaver facility, and an introductory microsurgical course. One day per week is reserved for research and basic science projects can be facilitated in two NIH-funded laboratories focusing on biomechanics of the upper extremity and molecular biology of peripheral nerve injury.

## Hematology Oncology

The Division of Hematology/Oncology at UC Irvine's School of Medicine offers a rigorous three-year accredited fellowship program that emphasizes intensive theoretical training and a broad spectrum of clinical experience with the goal of preparing highly skilled hematologists and oncologists for careers in both clinical and academic medicine. The division's fellowship is conducted in concert with UC Irvine's prestigious Chao Family Comprehensive Cancer Center, one of 48 U.S. comprehensive cancer centers designated for excellence by the National Cancer Institute. The multidisciplinary cancer center at UC Irvine Medical Center is supported by more than 100 UC Irvine faculty members from five schools and 23 departments.

The division's faculty members serve patients with hematologic and oncologic disorders at the medical center, which has been ranked among the top 50 U.S. hospitals by *U.S. News & World Report*, and at the Veterans Affairs Long Beach Healthcare System. Throughout fellowship hematology/oncology fellows function as primary longitudinal caregivers to a panel of patients and serve as consultants directing the management of large numbers of patients under the supervision and guidance of faculty physicians.

The fellowship program is designed to educate and support future clinical investigators who plan to dedicate their professional careers to clinical or laboratory research in hematology and oncology. The three-year program is approved by the Accreditation Council for Graduate Medical Education (ACGME) and is recognized by the American Board of Internal Medicine (ABIM).

## Hospice and Palliative Care

The Palliative Medicine Fellowship is a one-year, accredited program. The fellows spend the clinical training year at multiple sites including Hoag Memorial Hospital, community hospices, Long Beach Veterans Affairs Medical Center, and Miller Children's Hospital at Long Beach Memorial Medical Center. The training includes inpatient palliative medicine consultation, outpatient palliative care clinic, an inpatient hospice unit, community hospice, pediatric hospice and palliative care, and long-term care. Examples of available electives include interventional pain management, pediatric pain management, long-term acute care, administrative medicine, and neurocritical care.

## Infectious Disease

The Division of Infectious Diseases offers a two year fellowship which is accredited by the ACGME. The Fellowship offers a wide range of experiences including inpatient consultations, outpatient clinics, research, clinical microbiology, antibiotic stewardship and infection control and prevention. The two main teaching hospitals are the UC Irvine Medical Center and the Veterans Affairs Long Beach Healthcare System. The patient population is ethnically and socioeconomically diverse and fellows manage a wide variety of disease processes. Fellows who demonstrate an early interest in research may consider a third research year of fellowship. This well established program began in 1971 and has graduated many successful clinicians and academicians over the past 45 years.

## Innovative Anesthesiology/Critical Care Education

This 5-year Innovative Anesthesiology/Critical Care (ACC) Education Program is approved by the American Board of Anesthesiology (ABA) and provides a more integrated approach towards completion of dual ABA certification in anesthesiology and critical care medicine. Our program is dedicated to providing an exceptional educational experience and mentorship to develop the next generation of board-certified physician leaders in anesthesiology and critical care medicine.

Our program integrates a one-year Anesthesiology Critical Care Medicine (ACCM) Fellowship into the final two years of Anesthesiology Residency.

Didactic education includes point-of-care ultrasound (POCUS) training, high-fidelity simulations, hands-on workshops, problem-based learning discussions, wellness series, practice management, and professional development. Residents gain broad and diverse clinical experience through rotations at UC Irvine Medical Center, Children's Hospital of Los Angeles (CHLA), Long Beach Memorial Medical Center, Kaiser Permanente Los Angeles, Veterans Affairs Long Beach Healthcare System, and Children's Hospital of Orange County (CHOC). In total, the trainee in our program will have 19 four-week blocks of comprehensive critical care medicine experience (6 as a resident, 13 as fellow). Residents also have the opportunity for an advanced adult and pediatric cardiothoracic anesthesiology rotation in Lyon, France, and participation in medical missions, in partnership with faculty, through our Global Outreach Initiative.

## Internal Medicine

The internal medicine residency program is a traditional three-year training program and also sponsors a one-year preliminary medicine program in addition the ABIM certified research pathway. The program focuses on core educational skills of the internist and offers training to ensure our residents have access to a broad array of career options including hospitalist medicine, primary care, and subspecialty training. Residents rotate through UC Irvine Medical Center, the Veterans Affairs Long Beach Healthcare System, and Long Beach Memorial Medical Center. Core program faculty have a special interest in academic internal medicine and education. Subspecialty fellowships are offered in basic and clinical allergy/immunology, cardiology,



endocrinology and metabolic diseases, gastroenterology, geriatrics, hematology/oncology, infectious disease, nephrology, palliative care, pulmonary/critical care, and rheumatology.

## Interventional Cardiology

The Interventional Cardiology Fellowship at the University of California, Irvine is a one-year ACGME-approved program designed to train fellows in the use of percutaneous interventional techniques for the management of coronary, peripheral vascular and structural heart/valvular heart disease. The training includes didactic conferences, weekly case conferences, and individual fellow and faculty clinical patient reviews (pre- and post-procedure) to discuss risk, benefit, results, treatment strategies, and complications. Fellow experience is very individualized with one-on-one faculty interactions for each procedure. Trainees also assist in teaching general cardiology fellows, medicine residents, and other student groups. The fellowship functions as an integral component of the subspecialty residency in cardiology and the categorical residency program in internal medicine. During the year of interventional training, fellows are expected to master the techniques involved in coronary intervention, while developing perspective on procedural risk and benefit, patient selection, and clinical decision-making in cardiovascular patient care. At the end of the year, fellows should function as independent operators during interventional procedures.

The program adheres to the tenets outlined in the ACC COCATS guidelines document and the AHA statement on clinical competency in interventional cardiology. Fellows share their time at the UC Irvine Medical Center, Long Beach Memorial Medical Center, and the Long Beach Veterans Administration Hospital.

## Interventional Radiology

The Department of Radiological Sciences offers a one-year, clinically oriented fellowship in Interventional Radiology. Training in this discipline involves a broad range of vascular and interventional radiology procedures including interventional CT and Ultrasound. The fellow will also have the opportunity and option to participate in neuroradiological procedures including neurovascular intervention. The fellow is encouraged to participate in ongoing research projects and publications. The Vascular and Interventional Fellowship Program at UCI is ACGME accredited.

## Maternal Fetal Medicine

UCI offers a three-year fellowship in Maternal Fetal Medicine, accredited by the Accreditation Council for Graduate Medical Education (ACGME). The program provides a well-rounded curriculum that balances between clinical experiences, teaching opportunities, and academic and scientific activities. The program offers variety and depth due to the diversity of the two major training sites—UC Irvine Medical Center and Long Beach Memorial Medical Center. The care of high-risk pregnancy seen through the two hospitals represents a cross-section of racial, cultural, and socioeconomic groups from a local population of more than 2.5 million. These two sites represent a broad-spectrum of perinatal practice and offer excellent opportunities to learn and teach. Clinical and basic science research conducted by the faculty in the section gives the fellow the ability to gain skills in scientific investigation. The program's superb physical environment, extraordinary clinical services, and varied research interests permit the faculty to carry out the mission of preparing fellows for a career in clinical or academic MFM.

## Medical Genetics and Genomics

UCI offers three Medical Genetics and Genomics training programs:

1. A two-year categorical Clinical Genetics residency that requires prior satisfactory completion of 24 months of ACGME-accredited residency training in a specialty other than Medical Genetics. After successful completion of the Genetics program, trainees can apply for active candidacy to take the American Board of Medical Genetics and Genomics (ABMG) examinations.
2. A four-year combined Pediatrics/Clinical Genetics residency that can be entered after completion of medical school and that devotes 24 core months to Pediatrics, 18 core months to Clinical Genetics, and 6 months applicable to both specialties. The first year is spent in pediatrics in direct patient care experiences, the next 30 months alternate between Pediatrics and Medical Genetics for periods of 3 to 6 months each, and the last 6 months comprise either an individualized curriculum applicable to both specialties or research. After successful completion of the combined program, trainees can apply for active candidacy to take both the Pediatrics and the Medical Genetics and Genomics board examinations.
3. A four-year combined Maternal-Fetal Medicine/Clinical Genetics training program that requires prior satisfactory completion of 4 years of ACGME-accredited training in Obstetrics and Gynecology. After successful completion of the combined program, trainees can apply for active candidacy to take both the Maternal-Fetal Medicine and the Medical Genetics and Genomics board examinations.

In each of the three programs, the Medical Genetics and Genomics curriculum comprises a minimum of 18 months of broad-based, clinically-oriented medical genetics activities, including experiences with prenatal, pediatric, and adult patients and individuals who have cancer. The curriculum also includes didactic courses (basic concepts, cytogenetics and molecular cytogenetics, genetic epidemiology, clinical and prenatal genetics, clinical biochemical genetics, clinical molecular genetics and bioinformatics, cancer genetics, ethics, genetic counseling, and research methods), weekly clinical teaching conferences and follow-up conferences for genetic clinics, and journal clubs. The combined programs also include extensive didactic curricula in Pediatrics and Maternal-Fetal Medicine, respectively. Training occurs in three teaching hospitals: UC Irvine Medical Center, Children's Hospital of Orange County, and Miller Children's Hospital/Long Beach Memorial Medical Center. Maternal-Fetal Medicine also utilizes St. Joseph Medical Center in Orange, Calif.

## Memory Disorders Research Fellowship

The Memory Disorders Research Fellowship is a two-three year post-doctoral fellowship for individuals who have completed an M.D. and/or Ph.D. in neurology, neuroscience, psychology, geriatrics, or a related field, who desire advanced research training in the fields of Memory Disorders, Geriatric



Neurology, Brain Aging, and Alzheimer's Disease. Fellows will have exposure to longitudinal research, imaging and clinical trials, and other studies of aging and dementia, mentored by UCI faculty members.

The fellows will benefit from the rich neuroscience research environment and resources at UCI, with a tradition of training programs across the schools and units including the Departments of Neurology, Family Medicine, and Neurobiology & Behavior, the Alzheimer's Disease Research Center (ADRC), the Institute for Memory Impairments and Neurological Disorders (IMIND), and the Center for Neurobiology of Learning and Memory (CNLM). Throughout the fellowship, electives and research experience can be tailored to meet individual interests.

## Neonatal-Perinatal Medicine

UCI offers a three-year fellowship in Neonatal-Perinatal Medicine, accredited by the Accreditation Council for Graduate Medical Education (ACGME). The program provides a well-rounded curriculum that balances between clinical experiences, teaching opportunities, and academic and scientific activities. The program offers variety and depth due to the diversity of the two major training sites—UC Irvine Medical Center and Long Beach Memorial Medical Center/Miller Children's Hospital. The care of newborns seen through the two hospitals represents a cross-section of racial, cultural, and socioeconomic groups from a local population of more than 2.5 million. These two sites represent a broad-spectrum of neonatal practice and offer excellent opportunities to learn and teach. Clinical and basic science research conducted by the faculty in the section gives the fellow the ability to gain skills in scientific investigation. The program's superb physical environment, extraordinary clinical services, and varied research interests permit the faculty to carry out the mission of preparing neonatal fellows for a career in clinical or academic neonatology. In addition, the program collaborates clinically and through research with a superb fellowship training in Maternal-Fetal Medicine that is also based at the two institutions. The Neonatal-Perinatal Medicine Fellowship training consists of 14 months of direct patient care responsibilities, 19 months of research training, and three months of vacation.

## Nephrology

The Division of Nephrology and Hypertension is committed to providing exemplary care for patients with a variety of kidney diseases. We have earned UC Irvine Medical Center recognition by *U.S. News & World Report* as one of the nation's top 50 hospitals for nephrology services. We are heavily engaged in cutting-edge research and education and lead in kidney disease research nationally and internationally in several arenas. Our two-year ACGME-approved fellowship program offers fellows, residents, and medical students valuable experience in treating patients with a broad range of renal diseases and extensive didactic core lectures, grand rounds, seminars, and journal clubs. Research experience is an integral part of the educational program. Our fellows are given protected time during the fellowship to pursue research projects under the guidance of dedicated faculty and many research opportunities are available for interested students and residents.

## Neurocritical Care

The Department of Neurology offers a two-year Neurocritical Care fellowship accredited by the United Council for Neurological Subspecialties since June 2013. The training is based at UC Irvine Medical Center, Orange County's only Level I trauma center and certified comprehensive stroke center. There are 12 dedicated neurointensive care unit beds. Our team of neurointensivists includes neurocritical care fellowship-trained and board certified physicians. The fellows are expected to assume increasing level of responsibilities and eventually lead the rounds with a team of midlevel practitioners and residents, become proficient in ventilator management, ICU procedures, ventriculostomy management, endotracheal intubation, and reading continuous EEG recordings. Upon completion of the fellowship, fellows will be experienced in the management of a wide range of neurological, neurosurgical, and medical critical care conditions.

Neurocritical Care Fellowship applicants must be graduates of a program accredited by ACGME in one of the following residency training programs: neurology, neurological surgery, internal medicine, anesthesiology, surgery, or emergency medicine.

## Neurology

Neurology residency training focuses on the development of strong clinical skills to competently evaluate and treat the large number of disorders that afflict the nervous system. During three years of training at UCI, residents have the opportunity to see a wide variety of neurological conditions and receive progressively more responsibility. The program provides a rich, intellectually stimulating environment in which to learn. UCI Neurology faculty all have broad experience caring for neurological disorders and have special expertise in different neurological disciplines. Residents have opportunities to work in many different subspecialty areas with the faculty. The neurology residency program is big enough to provide a rich environment to learn about neurological disorders, yet remains small enough for residents to work closely with each faculty member. Residents are encouraged to learn at every opportunity: from patients, peers, the faculty, and visiting experts. There are many formats in which to learn, from bedside discussions, tutorials, to specially prepared lectures. To further stimulate intellectual growth, residents are actively encouraged to pursue research in any topic of their choosing, with the guidance of the faculty.

## Neuromuscular

The fellowship provides comprehensive training in neuromuscular disorders, including the diagnosis and clinical management of inherited and acquired neuromuscular disorders (general neuromuscular diseases, neuropathy, muscular dystrophies, ALS and myasthenia gravis), training in electrodiagnostic medicine (EMG, single fiber EMG, quantitative sensory testing and autonomic testing), as well as nerve and muscle biopsy analysis.

Given the number of patients seen in our center and our weekly half day teaching sessions in place (didactic neuromuscular lectures, review of interesting EMG cases from the week, and muscle/nerve pathology), the fellowship provides a great opportunity for well versed education and training in Neuromuscular medicine.

## **Neuroradiology**

A one-year ACGME-approved fellowship is offered in Diagnostic Neuroradiology (one position). The fellow will spend 10 months of the 12-month fellowship in training and experience in the interpretation of studies of brain, spine, and head and neck disorders. A dedicated month of Pediatric Neuroradiology is included in the training program, typically on assignment to Children's Hospital Los Angeles. Additional time will be spent in Interventional Neuroradiology with experience and training in both diagnostic and therapeutic vascular studies, as well as time spent on relevant nuclear medicine techniques. Participation in the ongoing research projects and publications of the section is encouraged.

## **Neurosurgery**

The UCI Residency Program in Neurosurgery is a rigorous training program designed to develop academic neurosurgeons. There are ample opportunities for both clinical and basic research within the Department and in collaboration with other laboratories or departments at UCI. Applicants are expected to have a strong academic record with a strong commitment to neurosurgery. The program participates in the NRMP match program to select one candidate every year. Exact order of clinical rotations may vary slightly subject to the trainee's interest in neurosurgery subspecialty; however, the rotation generally proceeds as follows: the PGY-1 year consists of thirteen (13), four (4) week blocks. There are six (6) blocks of neurosurgery rotation, one (1) block of ENT rotation, one (1) block of neurology rotation, one (1) block of ACS/trauma rotation, one (1) block of elective rotation (Neuropathology and Neuroradiology), and three (3) blocks of neurocritical care rotation; PGY-2 is one year of training at UC Irvine Medical Center assigned to neurosurgery service; PGY-3 is a nine-month rotation at Kaiser Permanente, Anaheim, followed by a three-month elective (Interventional Radiology or Spine) at UC Irvine Medical Center; PGY-4 is a three-month rotation at Children's Hospital of Orange County (CHOC) and a three to six-month rotation at Kaiser Permanente, Anaheim and a two-month of stereotactic radiosurgery and one month of elective rotation at UC Irvine Medical Center; PGY-5 has an option of either a research year or a 12-month subspecialty training (i.e. enfolded fellowship); PGY-6 is a three to nine-month elective rotation (Endovascular, Spine, Pediatrics) and last three months starts the chief resident year; PGY-7 is the chief resident year and will be at UC Irvine Medical Center with last three months of elective rotation.

## **Obstetrics and Gynecology**

This four-year program provides a solid foundation in Obstetrics and Gynecology with emphasis in the reproductive pathophysiology in the many different areas of women's health care. Based on this foundation, training continues with progressive resident responsibility for operative and medical management and surgical techniques. While predominantly clinical in scope, the program is strongly flavored by academic and research exposure. Training is provided in general obstetrics and gynecology with rotations in the subspecialties of Maternal-Fetal Medicine, Gynecologic Oncology, Female Pelvic Medicine and Reconstructive Surgery, Minimally Invasive Surgery, Family Planning and Reproductive Endocrinology, and Infertility. There are seven resident positions available each year in this four-year training program.

## **Ophthalmology**

The Ophthalmology Residency Program at UC Irvine, Gavin Herbert Eye Institute is three years in duration and provides extensive clinical and surgical training experiences. The education includes a robust weekly didactic curriculum. Trainees are exposed to a broad spectrum of ophthalmic disease management with high volume surgical experience in the full range of ophthalmology subspecialties. Residents rotate in cornea and refractive surgery, vitreoretinal surgery, oculoplastic and orbital surgery, glaucoma, pediatric ophthalmology and strabismus, ophthalmic pathology, uveitis, and neuro-ophthalmology, in addition to comprehensive ophthalmology. Trainees are exposed to diverse patient populations at various sites including Long Beach Veterans Affairs, Kaiser Permanente, and UCI Medical Center, as well as Gavin Herbert Eye Institute, a 70,000 square foot facility dedicated to ophthalmic patient care, surgery, and education.

## **Orthopaedic Surgery**

The Department of Orthopaedic Surgery at the University of California, Irvine offers a five-year ACGME accredited residency program and currently accepts four residents each year. The program is designed to provide intense exposure, experience, and education in the subspecialties of orthopaedics: trauma/fracture care, reconstructive/joint replacement surgery, sports medicine, pediatric orthopaedics, as well as spine, foot and ankle, shoulder, and hand surgery. Exposure to non-operative and rehabilitative orthopaedic care is also provided. The program is structured for maximum resident participation with an emphasis on mentorship, didactic teaching and supervised graduated autonomy in both the outpatient and the surgical setting. Clinical, biomechanical and basic science research opportunities are available and resident participation in these academic endeavors are an integral component of the residency. The program's primary site, UC Irvine Medical Center, is the only Level I Academic medical center in Orange County, serving over 3 million residents. Other sites include the Veterans Affairs Healthcare System in Long Beach, Long Beach Memorial Medical Center and Miller's Children's Hospital as well as the Kaiser Permanente Medical Center in Irvine and Anaheim. Following completion of the orthopaedic residency program, residents are prepared to sit for the American Board of Orthopaedic Surgery certification exams and proceed to a subspecialty fellowship or enter into orthopaedic practice.

## **Otolaryngology—Head and Neck Surgery**

The Department of Otolaryngology—Head and Neck Surgery offers a five-year residency program providing comprehensive training in otolaryngology and prepares trainees to sit for the American Board of Otolaryngology Examinations. The five-year program provides a breadth of training in general and pediatric otolaryngology, head and neck surgery, otological surgery, rhinology (including endoscopic sinus and skull base surgery), laryngology,

and facial plastic and reconstructive surgery. Residents receive an extensive clinical experience at UC Irvine Medical Center, Children's Hospital of Orange County, Veterans Affairs Long Beach Healthcare System, and Kaiser Foundation Hospital-Anaheim and Irvine. Acceptance is through application and successful matching through the National Residency Matching Program. The program follows requirements set by the Accreditation Council for Graduate Medical Education.

## **Pain Medicine**

The Fellowship Training Program in Pain Medicine at the UC Irvine Health is an intensive one-year ACGME-accredited multidisciplinary training program. The comprehensive training includes pain assessment, treatment, and management, covering both inpatient and outpatient care, including both adult and pediatric pain medicine, with a special focus on advanced interventional techniques. The fellowship includes hands-on training in many procedures including interventional neuromodulation techniques, intrathecal drug delivery systems, neuraxial interventions, and peripheral nerve blocks, among others. Fellows work closely with specialists in physical medicine and rehabilitation, anesthesiology, neuroradiology, palliative care, neurology, primary care, and psychiatry to gain a comprehensive understanding of pain management. For candidates with an interest in pain related research, the UC Irvine Center for Pain Management has a strong complement of basic and translational researchers with active laboratories in pain related to spinal cord injury and mechanisms of chronic pain. The program has a strong tradition of providing trainees with a broad and supportive training experience in pain medicine.

## **Pathology**

The Department of Pathology at the University of California, Irvine offers a one-year Cytopathology Fellowship Program. The Program is designed to provide comprehensive training in diagnostic cytology including fine needle aspiration biopsy with surgical pathology and clinical correlation. Training will be provided in both gynecologic and non-gynecologic materials including performance and interpretation of fine needle aspiration biopsies. Fellows are also responsible for the weekly cytology conference, a research project, the cytopathology review courses and workshops given by the University of California, Irvine. In addition to cytopathology responsibilities, fellows will review all surgical-pathology cases of gynecologic oncology subspecialty and present them at weekly multidisciplinary tumor boards. They are exposed to research opportunities that are available in cytopathology, immunocytochemistry, and flow cytometry/image analysis.

## **Pediatrics**

The Pediatric Residency Program emphasizes the interrelationship of patient care, didactic teaching, and research in the training of the pediatric resident physician. The focus is on the total care of the child from birth through young adulthood. A strong clinical and educational foundation is provided through experiences in a broad spectrum of disease and/or injury as well as training in biosocial pediatrics, preventive health care, and community resources.

The program offers variety and depth due to the diversity of the Department's major teaching hospitals—Children's Hospital of Orange County, Miller Children's Hospital (located at Long Beach Memorial Medical Center), and UC Irvine Medical Center. The faculty at these institutions provides a comprehensive teaching program in general pediatrics and cover the full range of pediatric subspecialties. The care of children seen through the three hospitals represents a cross-section of racial, cultural, and socioeconomic groups from a local population of more than 2.5 million. Thus, pediatric residents are exposed to a wide range of problems presented in settings ranging from intensive care to supervised office-based practice.

## **Pediatrics Pulmonary**

At UC Irvine, we are pleased to partner with Miller Children's Hospital in offering one of the few pediatric pulmonology fellowship training programs in California. The program, directed by Dr. Inderpal Randhawa at Miller's, has been in existence for more than 26 years and has attracted outstanding candidates from the United States and internationally. The pulmonary fellowship offers tailored, innovative research projects for fellows, as well as a thorough and comprehensive program in pediatric and pulmonary medicine. Commencing this year, we are offering a special track program for candidates interested in pursuing a career in academic pediatrics. This candidate will have a research focus in exercise physiology in children and will be eligible for a Masters in Clinical Science at UCI.

The research interests of fellows include such topics as air pollution and asthma in children, immunological aspects of lung disease, exercise and the impact of immunity, and growth factor in children. Research is done under the direction of Dr. Dan Cooper. The six faculty members of the pediatric pulmonology program are supported by solid research faculty, primarily at the UC Irvine School of Medicine, with NIH and local grants.

## **Pediatric Urology**

The Pediatric Urology Fellowship program, is an ACGME accredited program, leading to qualification for the American Board of Urology's Subspecialty Certification in Pediatric Urology. This is a two year fellowship, centered in Children's Hospital of Orange County (CHOC), and UCI. Five Pediatric Urologists, faculty in the Department of Urology, oversee a full clinical program in which trainees are guided through all aspects of Pediatric Urology. One year is fully clinical, and a second year is split between clinical and research activities. Research projects may make full use of the robotic and surgical simulation and animal facilities in UCI. Collaborative conferences are regularly held within the Urology Department, in which the Fellows are encouraged to present materials and participate. In addition, regular conferences in CHOC, include Radiology, Nephrology, Endocrinology, and Tumor Board. The entry to the Fellowship required the completion of a recognized Urology residency, and is coordinated by the Society of Pediatric Urology matching program.

## Physical Medicine and Rehabilitation

The Department of Physical Medicine and Rehabilitation offers a three-year residency for applicants who have completed a 12-month ACGME accredited internship. The residency program focus is on the diagnosis and comprehensive treatment and care of patients with musculoskeletal, neurological problems or cardiopulmonary disabilities, from newborns to the elderly. Residents rotate at the UC Irvine Medical Center, the Veterans Affairs Long Beach Healthcare System, Long Beach Memorial Hospital, and St. Jude Hospital. PM&R Residents are involved in research and medical student teaching.

## Plastic Surgery

The Department of Plastic Surgery at the University of California, Irvine has a fully integrated residency program. The program currently accepts three residents for a six-year educational training experience in Plastic Surgery. The goals and objectives of this program are to educate plastic surgeons who are analytical and scholarly in their approach to surgical problem solving, broadly experienced in all fields of the specialty, safe in their application of judgment and technique, and ultimately self-educating in a lifelong continuing medical education process. The goals and teaching philosophy are based on the graduate school model, which emphasizes analytic problem solving, scholarly use of the knowledge base and scientific resources of the field, development of judgment skills, and identification of educational tools that produce the ability to self-direct one's lifelong professional education in a scholarly manner. At the successful completion of this program, candidates will be able to sit for their boards in Plastic Surgery.

## Micrographic Surgery and Dermatologic Oncology (Dermatologic Surgery)

The Department of Dermatology offers a 1 year subspecialty fellowship with 1 fellow who rotates through clinics at UC Irvine and Kaiser Permanente. The fellow receives extensive training in the study, diagnosis, and surgical treatment of disease of the skin and adjacent mucous membranes, cutaneous appendages, hair, nails, and subcutaneous tissue. Dermatologic Surgery is broadly categorized into the following three areas: cutaneous oncologic surgery, cutaneous reconstructive surgery, and cutaneous aesthetic surgery.

## Pulmonary and Critical Care

The Pulmonary Diseases and Critical Care Medicine Fellowship at UC Irvine's School of Medicine is a fully accredited three-year program designed to train clinicians to deliver high-quality, skilled care to patients. Our highly competitive program, run by leading interventional pulmonologists, provides selected fellows with clinical research career opportunities in academic pulmonary and critical care. In addition to assuring competency and proficiency in medical care, our goal is to help fellows achieve independence and confidence in all clinical, academic, and educational endeavors.

## Preventive Medicine - Occupational Medicine

The Occupational Medicine Residency Program is based in the Division of Occupational and Environmental Medicine, Department of Medicine. It is intended for physicians who are seeking certification by the American Board of Preventive Medicine in the field of Occupational Medicine. A prerequisite to participation is a minimum of one year of postgraduate clinical training in a primary care discipline. The program generally expects entering residents to have completed a three-year primary care residency or the equivalent. The objective of the program is to train physicians to be specialists and leaders in the fields of occupational and environmental medicine. During the two year program, residents are provided academic foundation in occupational medicine, industrial hygiene, environmental toxicology, and epidemiology. Residents complete a Master of Science degree program in Environmental Health Sciences. The program also includes didactic and clinical training and field experience in occupational health and safety. Upon completion of training, the resident is qualified to enter the specialty practice of occupational medicine as a consultant or in an occupational medicine specialty practice, workplace setting, government agency, or academic institution.

## Psychiatry

The Psychiatry Residency Training Program is a four-year program that fosters academic excellence and broad clinical experience in general psychiatry. Residents receive extensive supervised training in psychopharmacology and various modalities of psychotherapy. Opportunities for research abound with expert faculty available to provide guidance. The core curriculum includes weekly didactic seminars and supervised clinical experiences in the following areas: adult inpatient and outpatient psychiatry, child and adolescent psychiatry, geriatric neuropsychiatry, primary care, neurology, emergency psychiatry, consultation and liaison psychiatry, forensic psychiatry, and addiction psychiatry. Throughout their training, by treating a highly diverse patient population, residents acquire competency in culturally-sensitive psychiatric assessment and treatment, as well as with different systems-based practices. The primary teaching site for the residency program is the UC Irvine Medical Center, a 412-bed acute care hospital that provides tertiary and quaternary care, ambulatory and specialty medical clinics, behavioral health, and rehabilitation. The residency teaching affiliates include Long Beach Veterans Affairs Healthcare System and the Orange County Behavioral Health. Elective rotations are available at the UC Irvine Outreach Clinics such as the Student Health Center, Kaiser Permanente, John Henry Foundation, and DHS Patton. The flexible curriculum and supportive faculty allow residents to pursue elective interests in research, teaching, and administrative psychiatry, ensuring attainment of the residents' career goals. The program includes a broad array of full-time, part-time, and volunteer clinical and research faculty dedicated to the teaching mission.

## Radiology, Diagnostic

The Department of Radiological Sciences has an ACGME-approved four-year residency program in diagnostic radiology based at UC Irvine Medical Center and integrated with Veterans Affairs Long Beach Healthcare System. There are also month-long Pediatric Radiology rotations at Children's Hospital of Orange County. The objectives of the program are (1) to train competent radiologists with a solid background in all modalities of imaging and interventional procedures, (2) to provide a conducive atmosphere and to encourage opportunities for residents to participate in translational and basic science research as well as patient care quality improvement and healthcare economics, and (3) to provide elective periods in which residents have the

opportunity to increase their clinical radiology expertise or to work on research projects during their residency training. The residency program includes sub-specialized training in interventional, cardiothoracic, abdominal, pediatric, musculoskeletal radiology, as well as breast imaging, neuroradiology, and molecular imaging. Residents are exposed to a variety of modalities including radiography, fluoroscopy, computed tomography (CT), magnetic resonance imaging (MRI), ultrasonography, mammography, nuclear medicine, and molecular imaging. All residents participate in scholarly activities and are encouraged to complete at least one research project during the program. The program provides a month-long research block; residents are required to complete at least one scholarly project during residency. Candidates are accepted for six positions at the PGY-2 level for the four-year program. Fellowships are available for an additional year in specialized areas following the successful completion of the residency. The newest technologies in the field of radiological sciences are available at UC Irvine Medical Center and affiliated institutions. The program sponsors a four-week course in radiology-pathology correlation training, as well as training in radiology physics.

## Radiation Oncology

The Residency Training Program in Radiation Oncology is designed to prepare suitably qualified individuals for academic and clinical practice careers in Radiation Oncology. Candidates enter a four-year program which encompasses clinical service, didactic teaching, and integrated research experience. Beyond exposure to a variety of conventional and precision-oriented external beam treatment technologies such as IMRT, SRS and SBRT, opportunities exist for training in interstitial and intracavitary brachytherapy using special applicators. Clinical applications based on fundamental principles in Radiation Physics and Biology are emphasized, while trainees attain competence in implementing multidisciplinary cancer care based on sound judgment of evidence-based medicine. The program includes rotations at three participating hospitals: UC Irvine Medical Center, Veterans Affairs Long Beach Healthcare System, and Long Beach Memorial Medical Center.

## Rheumatology

The Division of Rheumatology at UC Irvine offers a highly competitive, two-year fellowship program that provides extensive clinical training in rheumatic and musculoskeletal disorders. We are accredited for four fellows by the Accreditation Council for Graduate Medical Education (**ACGME**). We encourage fellows seeking a career in academic medicine to pursue a third year of sponsored research. The program is equally based at two sites- the UC Irvine Medical Center, Orange County's only university medical center, and the Long Beach Veterans Administrative Hospital. We see a diverse and complex patient population with frequent presentations of Lupus, Myositis and Vasculitis. All fellows are trained in Musculoskeletal Ultrasound, and for the past four years, the fellows have successfully taken the Ultrasound certification course by the American College of Rheumatology

## Spinal Cord Injury

The Spinal Cord Injury Medicine Fellowship is a one year accredited program. The Fellow rotates through 3 teaching institutions: the Veterans Affairs Long Beach Healthcare System (VALBHS), Rancho Los Amigos National Rehabilitation Center, and University of California, Irvine (UCI). The Spinal Cord Injury Center at the Veterans Affairs Long Beach Healthcare System (VALBHS) is one of the largest SCI inpatient units in the Veterans Healthcare System with 77 maximum bed capacity. Inpatient units treat complex medical/surgical cases, which include ventilator-dependent respiratory care. Outpatient services include general and focused primary care for Geriatric patients and SCI patients with diabetes. There are specialty clinics, such as surgical care (urology and plastic surgery), upper extremity restoration (tendon transfers), annual evaluations, shoulder clinic, orthotic wheelchair clinics and driver's training. Rancho Los Amigos National Rehabilitation Center (RLANRC) is a world renowned rehabilitation hospital with unique learning opportunities including spasticity, post-polio, and orthopedic rehabilitation clinics. In addition, RLANRC provides experiences in pediatric spinal cord disorders in acute, subacute, and rehabilitation settings, care of spinal bifida patients and an opportunity to learn about problems associated with transition from childhood to adulthood in persons with SCI. UCI is a level 1 trauma center which offers the SCI fellow the opportunity to understand the multi-disciplinary approach for the acute management of traumatic spinal cord injury. The Fellow will learn the clinical pathway guidelines for the critical care management of acute traumatic spinal cord injury and to understand the role of the physiatrist consult in the care of the acute spinal cord injured patient. In addition to the academic and clinical work, our fellows are expected to participate in performance improvement projects, shadow the chief/program director to various hospital-wide administrative meetings and actively participate in research.

## Surgery

The University of California, Irvine General Surgery program places strong emphasis on provision of excellent clinical care, establishing new horizons in minimally invasive surgery, education of residents and medical students in all aspects of surgery, and high-level surgical research. Our program trains and prepares some of the finest young surgeons in the country for the rigors of academic or private practice as well as subsequent fellowship training.

Our general surgery residency program's integrated and affiliated training sites include rotations in surgical oncology, cardiothoracic, vascular, gastrointestinal, colorectal, hepatobiliary, general surgery, surgical critical care, pediatric surgery, and trauma/acute care surgery. UC Irvine's faculty and volunteer faculty, as well as that of our affiliate institutions, are committed to teaching and provide residents with a variety of resources and opportunities to engage their surgical knowledge. Surgical residents perform clinical rotations at our University Medical Center, the Veteran's Affairs – Long Beach Hospital, Kaiser Permanente, Long Beach Memorial Medical Center, and Children's Hospital of Orange County.

Residents interested in research will find a broad range of resources and mentors. While not required, research during residency imbues critical skills and exposes the resident to the an additional dimension of academic surgery. Options for one or two years of dedicated research outside of the clinical track are available.



Fully accredited by the ACGME, UC Irvine's General Surgery Residency Program emphasizes the surgeon of the future in its curriculum—providing world class surgical care while minimizing the footprint we leave behind. We practice and abide by the motto coined by our former chair, David Hoyt, M.D., FACS, "When you see one of us, you see all of us."

## Surgery Critical Care

The Surgical Critical Care Fellowship Program is a one-year accredited categorical program with an opportunity for a non-accredited second year if desired.

As a PGY-6, experience will be gained working at UC Irvine Medical Center in the Division of Trauma, Burns, Surgical Critical Care and Acute Care Surgery. UC Irvine has both an ACS-verified Level I Trauma Center with over 4,200 trauma activations and an ACS Verified Burn Center with over 300 admissions. There are over 3,600 annual admissions to the intensive care unit which offers a broad range of surgical pathology. Extensive exposure to trauma resuscitation, operative management, and ICU procedures is provided. Didactics include weekly hands-on ultrasound course, weekly Surgical Critical Care SciAm program, ASSET course, ATLS instructor course, and airway training. The faculty consists of 10 surgeons who are all board-certified in Surgical Critical Care.

The optional second year in Acute Care Surgery will offer exposure to advanced rotations in emergency general surgery with an aggressive research collaboration.

All candidates interested in pursuing a Surgical Critical Care Fellowship must be board certified/eligible graduates from an ACGME-approved surgical residency.

## Urology

The Department of Urology Residency Program is a five-year training program that includes a one-year internship in the Department of Surgery and four years of Urology training. The residency program provides training in all aspects of adult and pediatric urologic diseases. The residents receive extensive training in open and endoscopic procedures, laparoscopy and other minimally invasive techniques, urologic pathology, urology, and management of non-operative urologic conditions. The program's training hospitals include UC Irvine Medical Center, Veterans Affairs Long Beach Healthcare System, Long Beach Memorial Medical Center, and Children's Hospital of Orange County. The Urology Department encourages and supports both clinical and basic science research.

## Vascular Neurology Fellowship

Department of Neurology is offering an ACGME accredited Vascular Neurology fellowship position annually. This one-year program offers comprehensive training in acute stroke care and clinical research. The training is based at the new state-of-the-art UC Irvine Medical Center Douglas Hospital, which is the first Certified Comprehensive Stroke Center in Orange County, CA. The hospital has 24/7 advanced neuroimaging and neurointerventional capabilities, a dedicated 12-bed Neuroscience ICU, a Neuroscience stepdown unit, and over 600 stroke admissions a year. We have 6 board-certified or fellowship-trained Vascular Neurology Faculty, 5 board-certified Neurointensivists, and 5 Endovascular or Cerebrovascular Surgeons. Electives or research experience can be tailored to meet individual needs.

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## Graduate Academic Programs

The School of Medicine offers graduate study in a wide variety of fields in both basic science and clinical departments. The basic medical science departments of Anatomy and Neurobiology (<http://catalogue.uci.edu/schoolofmedicine/anatomyandneurobiology>), Biological Chemistry (<http://catalogue.uci.edu/schoolofmedicine/biologicalchemistry>), Microbiology and Molecular Genetics (<http://catalogue.uci.edu/schoolofmedicine/microbiologyandmoleculargenetics>), Pathology and Laboratory Medicine (<http://catalogue.uci.edu/schoolofmedicine/experimentalpathology>), and Physiology and Biophysics (<http://catalogue.uci.edu/schoolofmedicine/physiologyandbiophysics>) offer graduate instruction leading to the M.S. and Ph.D. degrees in Biomedical Sciences. The Department of Pharmacology (<http://catalogue.uci.edu/schoolofmedicine/pharmacologyandtoxicology>), in conjunction with the Department of Pharmaceutical Sciences, offers graduate instruction leading to the M.S. and Ph.D. degrees in Pharmaceutical Sciences (<http://catalogue.uci.edu/interdisciplinarystudies/pharmacologyandtoxicology>). The Department of Epidemiology (<http://catalogue.uci.edu/schoolofmedicine/epidemiology>) offers graduate instruction leading to the M.S. and Ph.D. degrees in Epidemiology. The Department of Medicine offers graduate instruction leading to the M.S. and Ph.D. degrees in Environmental Health Sciences (<http://catalogue.uci.edu/schoolofmedicine/environmentalhealthsciences>). Most graduate students in these programs are admitted for the Doctor of Philosophy (Ph.D.) degree. The Department of Pediatrics offers an M.S. degree in Genetic Counseling (<http://catalogue.uci.edu/schoolofmedicine/geneticcounseling>). The School of Medicine also offers an M.S. degree in Biomedical and Translational Science (<http://catalogue.uci.edu/schoolofmedicine/biomedicalandtranslationalscience>). Each department or program has a graduate advisor whom students may consult for additional details of the individual programs.



The departments evaluate applications for admission to graduate study or program based on letters of recommendation, Graduate Record Examination scores, grades, research experience, and other relevant qualifications of the applicant. Candidates for graduate admission are urged to consult the particular department or program whose faculty and expertise best fit their interests and background.

Application materials may be obtained by contacting the individual graduate programs or:

**University of California, Irvine**  
**Graduate Division**  
**120 Aldrich Hall**  
**Irvine, CA 92697-4611**  
**949-824-6761**  
**<http://www.grad.uci.edu>**

## Master of Science and Doctor of Philosophy in the School of Medicine

The School of Medicine offers both the Master of Science and Doctor of Philosophy degrees, although emphasis at the graduate level is placed on the Ph.D. programs. Most training takes place within one of the departments, although full facilities and curricular offerings are available to all graduate students in all departments of the School of Medicine. Interdisciplinary study and research are encouraged. Students are expected to maintain a B average at all times. The normative time to degree is two years for the master's degree, and five years for the doctoral degree. A master's degree is not a prerequisite for the Ph.D. degree.

Students plan their academic program in consultation with the graduate advisor or a faculty committee. Faculty advisors may be changed to meet the needs and interests of the student. In addition, it is possible for students to transfer to another program in the School, subject to the approval of the Dean of Graduate Studies, and acceptance into that program. Students are encouraged to consult with faculty members with regard to their research and academic interests.

### Master of Science in Biomedical Sciences

The Master of Science degree in Biomedical Sciences may be completed by submission of a research thesis (plan I) or by course-work and a comprehensive exam (plan II).

**Plan I: Thesis Plan.** The student is required to complete at least four didactic graduate courses (16 units) offered by the department, and elective course work with an additional 8 units of graduate or upper-division undergraduate course work. In addition, the student will typically take additional seminar courses during the graduate study. Students in the M.S. program may be employed as teaching assistants, but units earned through enrollment in University Teaching (399) may not be counted toward degree completion. The student engages in thesis research with a faculty thesis advisor, and will prepare and submit a dissertation to the thesis committee. The final examination is an oral presentation of the thesis to the committee. The normative time to degree is two years for the thesis M.S. degree.

**Plan II: Comprehensive Examination Plan.** The plan II M.S. degree is awarded based on completion of at least 36 units of course work and a satisfactory completion of a comprehensive exam. The student is required to complete at least 16 units (four courses) of didactic graduate course work offered by the department. In addition, the student will take up to 12 units of research. An additional 8 units or more of elective course work will be completed from other graduate courses offered by the department. A maximum of 4 units of upper-division undergraduate courses may be included in the program with the approval of the Associate Dean for Graduate Studies. Students in the M.S. program may be employed as teaching assistants, but units earned through enrollment in University Teaching (399) may not be counted toward degree completion. The comprehensive exam will be administered by a committee of at least three departmental faculty, and may include written and oral sections. The comprehensive exam format will include a research presentation and may include additional portions such as a research proposal, presentation of a project, or other components. The normative time to degree is one year for the M.S. degree by comprehensive exam.

### Doctor of Philosophy

**Comprehensive Examination-First Year.** The student must pass comprehensive oral or written examinations at the discretion of the department. The examination is generally taken at the end of the first year of graduate study.

**Advancement to Candidacy.** The advancement to candidacy examination is taken before the end of the third year of graduate study. The student is expected to have identified an important and tractable dissertation research topic. A faculty committee for the advancement to candidacy examination is proposed by the faculty mentor in consultation with the student, and approved by the Department Graduate Advisor. A majority of the committee must hold primary or joint appointments in the student's department.

Once this examination is completed, the student is advanced to candidacy for the doctoral degree and is expected to complete the degree within three years. The student must submit a dissertation on this research and defend the thesis in an oral examination during the final year of graduate study. The normative time for completion of the Ph.D. is five years, and the maximum time permitted is seven years.

Graduate-student status or consent of instructor is a prerequisite for all 200–299 courses.

## Faculty

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Peter Breen, M.D. University of Manitoba, *Associate Professor of Anesthesiology and Perioperative Care*

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Robert Brown, Ph.D. , *Adjunct Professor of Surgery*

David K. Buchbinder, M.D. Medical College of Wisconsin, *Health Sciences Clinical Professor of Pediatrics*

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- Emily E. Dow, M.D. University of Cincinnati, *Health Sciences Professor of Family Medicine*
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- Anthony J. Durkin, Ph.D. University of Texas at Austin, *Associate Professor in Residence of Surgery*
- Karen L. Edwards, Ph.D. University of Washington, *Chair and Professor of Epidemiology; Genetic Epidemiology Research Institute; Program in Public Health*
- Robert A. Edwards, M.D., Ph.D. Baylor College of Medicine, *Associate Professor of Pathology and Laboratory Medicine*
- Rufus D. Edwards, Ph.D. Rutgers, The State University of New Jersey, *Professor of Program in Public Health; Environmental Health Sciences; Epidemiology*
- Alan N. Elias, M.D. University of Calcutta, *Professor Emeritus of Medicine*
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- Jill Elizabeth Endres, M.D. University of Vermont, *Health Sciences Associate Clinical Professor of Surgery*
- Scott A. Engwall, M.D. University of Florida, *Health Sciences Associate Clinical Professor of Anesthesiology and Perioperative Care*
- Sonja Entringer, Ph.D. University of Trier, *Assistant Adjunct Professor of Pediatrics*
- Ramez N. Eskander, M.D. University of California, San Diego, *Health Sciences Clinical Instructor of Obstetrics and Gynecology*
- Gregory R. Evans, M.D. University of Southern California, *Professor of Surgery; Biomedical Engineering (aesthetic surgery, breast augmentation, cosmetic plastic surgery, craniomaxillofacial, hand surgery, head and neck reconstruction, liposuction, oncology, pelvic bone reconstruction, peripheral nerve regeneration, reconstructive microsurgery, replantation, tissue engineering)*
- Marc-Eivind C. Evensen, M.D. University of California, Irvine, *Health Sciences Professor of Physical Medicine and Rehabilitation*
- James H. Fallon, Ph.D. University of Illinois Medical Center, *Professor Emeritus of Anatomy and Neurobiology*
- Guity Farahmand, M.D. University at Buffalo, The State University of New York, *Health Sciences Clinical Instructor of Medicine*
- Hamed Farid, M.D. University of California, San Diego, *Health Sciences Associate Clinical Professor of Radiological Sciences*
- Marjan Farid, M.D. University of California, San Diego, *Health Sciences Associate Clinical Professor of Ophthalmology*
- Lawrence R. Faziola, M.D. Creighton University, *Health Sciences Assistant Clinical Professor of Psychiatry and Human Behavior*
- Marion J. Fedoruk, M.D. University of Alberta, *Health Sciences Clinical Professor of Medicine*
- Stephen Feig, M.D. New York University, *Fong and Jean Tsai Chair in Women's Imaging and Professor of Radiological Sciences*
- Philip Felgner, Ph.D. Michigan State University, *Adjunct Professor of Medicine; Physiology and Biophysics*
- Amanda N. Fernandez, M.D., *Health Sciences Clinical Professor of Pediatrics*
- Dayantha Fernando, M.D. Georgetown University, *Health Sciences Assistant Clinical Professor of Radiological Sciences*
- Robert R. Field, M.D. University of Kansas, *Health Sciences Assistant Clinical Professor of Anesthesiology and Perioperative Care*
- Mark J. Fisher, M.D. University of Cincinnati, *Professor of Neurology; Anatomy and Neurobiology; Political Science*
- Sheila Fitzgibbons, M.P.A. California State University, Long Beach, *Health Sciences Associate Clinical Professor of Medicine*
- Laura E. Fitzmaurice, M.D. University of California, Los Angeles, *Health Sciences Assistant Clinical Professor of Obstetrics and Gynecology*
- Lisa Flanagan-Monuki, Ph.D. University of California, San Diego, *Assistant Professor of Neurology; Biomedical Engineering (stem cells, neural, embryonic, neuron)*

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Pamela L. Flodman, M.S. University of California, Irvine, *Adjunct Professor of Pediatrics; Genetic Counseling*

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Gareth K. Forde, M.D. University of Minnesota, *Health Sciences Clinical Instructor of Obstetrics and Gynecology*

Nikta Forghani, M.D. University of California, Davis, *Health Sciences Clinical Professor of Pediatrics*

Donald N. Forthal, M.D. University of California, Irvine, *Professor of Medicine; Molecular Biology and Biochemistry*

Michelle Fortier, Ph.D. University of Nebraska, *Assistant Professor in Residence of Anesthesiology and Perioperative Care; Psychology and Social Behavior* (pediatric pain management, pediatric oncology, family-centered medicine, complementary and alternative medicine (CAM), health information technology, coping with illness-related Stress)

Clarence E. Foster, M.D. Johns Hopkins University, *Health Sciences Professor of Surgery*

John C. Fox, M.D. Tufts University, *Professor of Emergency Medicine*

David L. Franklin, Ph.D. Alliant International University, *Health Sciences Associate Clinical Professor of Psychiatry and Human Behavior*

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- Melanie W. Gironde, Ph.D. University of California, Los Angeles, *Associate Adjunct Professor of Family Medicine*
- Gordon Gl. Globus, M.D. Tufts University, *Professor Emeritus of Psychiatry and Human Behavior*
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- Sastry V. Gollapudi, Ph.D. Dalhousie University, *Assistant Adjunct Professor of Medicine*
- Kiarash Golshani, M.D. Oregon Health & Science University, *Health Sciences Assistant Clinical Professor of Neurological Surgery*
- Deborah Goodman, Ph.D., M.D., M.P.H. University of California, Los Angeles, *Associate Adjunct Professor of Epidemiology*
- Scott C. Goodwin, M.D. Harvard University, *Hasso Brothers Endowed Chair in Radiological Sciences and Professor of Radiological Sciences*
- Ian L. Gordon, Ph.D. University of Southern California, *Health Sciences Clinical Professor of Surgery*
- Namita Goyal, M.D. Ross University, *Health Sciences Assistant Clinical Professor of Neurology*
- Kaylan A. Graham, M.D. Loyola University Chicago, *Health Sciences Clinical Instructor of Medicine*
- Sergei Grando, M.D. , *Professor of Dermatology*
- Kenneth E. Grant, M.D. Albany Medical College, *Health Sciences Clinical Professor of Pediatrics*
- Jennifer S. Green, M.D. Georgetown University, *Health Sciences Clinical Professor of Pediatrics*
- Milton Greenberg, Ph.D. University of California, Irvine, *Assistant Adjunct Professor of Physiology and Biophysics*
- Sheldon Greenfield, M.D. University of Cincinnati, *Donald Bren Professor and Professor of Medicine*
- Fred S. Greensite, M.D. University of California, San Diego, *Professor of Radiological Sciences*
- Leonid Groysman, M.D. Nicolae Testemi?anu State University of Medicine and Pharmacy, *Health Sciences Assistant Clinical Professor of Neurology*
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- Rajesh Gulati, MBBS University College of Medical Sciences, *Health Sciences Professor of Medicine*
- Gultekin Gulsen, Ph.D. Bogazici University, *Associate Professor of Radiological Sciences; Biomedical Engineering; Electrical Engineering and Computer Science; Physics and Astronomy* (in vivo molecular imaging, diffuse optical tomography, fluorescence tomography, photo-magnetic imaging, multi-modality imaging)
- Padma Gulur, MBBS, *Health Sciences Clinical Professor of Anesthesiology and Perioperative Care*
- Geeta K. Gupta, M.D. Harvard University, *Health Sciences Professor of Medicine*
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- Sudhir Gupta, Ph.D. University of Lucknow, *Professor of Medicine*
- Ravi Chandra Gutta, M.D. Andhra Medical College, *Health Sciences Assistant Clinical Professor of Medicine*
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- Molood Hadi, D.O. Western University of Health Sciences, *Health Sciences Assistant Clinical Professor of Medicine*
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David Imagawa, Ph.D. Johns Hopkins University, *Suzanne Dykema Endowed Chair in Pancreatic Cancer and Professor of Surgery*

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M. M. Jamal, M.D. University of Damascus, *Health Sciences Clinical Professor of Medicine*

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James V. Jester, Ph.D. University of Southern California, *Jack H. Skirball Endowed Chair and Professor of Ophthalmology; Biomedical Engineering* (mechanics of wound healing and the inter-relationship of mechanical force, cell-matrix interaction, and gene expression, cellular basis of corneal transparency and the role of water-soluble proteins in isolated cell light scattering, three-dimensional and temporal imaging of cells in intact living tissue)

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- Robert Katzer, B.A. University of California, Berkeley, *Health Sciences Assistant Clinical Professor of Emergency Medicine*
- Claudia H. Kawas, M.D. University of Louisville, *Nichols Term Chair in Neuroscience and Professor of Neurology; Neurobiology and Behavior*
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- Kristen M. Kelly, M.D. University of California, Irvine, *Health Sciences Professor of Dermatology*
- Richard Kelly, M.D. Stanford University, *Health Sciences Associate Clinical Professor of Anesthesiology and Perioperative Care*
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- Kai Kessenbrock, Ph.D. Ludwig Maximilian University of Munich, *Assistant Professor of Biological Chemistry*
- Joyce H. Keyak, Ph.D. University of California, San Francisco, *Professor in Residence of Radiological Sciences; Biomedical Engineering; Mechanical and Aerospace Engineering* (bone mechanics, finite element modeling, quantitative computed tomography, prosthetic implants, osteoporosis, metastatic tumors in bone, radiation therapy)
- Aaron Kheriaty, M.D. Georgetown University, *Health Sciences Associate Clinical Professor of Psychiatry and Human Behavior; Religious Studies*
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- Antoine Elie Khoury, M.D. Ain Shams University, *Walter R. Schmid Chair in Pediatric Urology and Professor in Residence of Urology*
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- Ivan I. Kirov, M.D. , *Health Sciences Clinical Professor of Pediatrics*
- Masashi Kitazawa, Ph.D. Iowa State University, *Associate Professor of Medicine; Environmental Health Sciences* (impact of neuroinflammation on the molecular pathogenesis of Alzheimer's disease and how aging and/or environmental exposure perturb physiological functions of astrocytes and microglia and disrupt inflammatory microenvironment in the brain)
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Patricia Liao, M.D. Northwestern University, *Health Sciences Clinical Professor of Pediatrics*

Solomon S. Liao, M.D. University of California, Irvine, *Health Sciences Associate Clinical Professor of Medicine*

Lih-Huei Liaw, M.S. Northeastern University, *Project Scientist of Surgery*

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Jack J. Lin, M.D. Rush University, *Associate Professor of Neurology*

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Kenneth Linden, M.D. University of California, Irvine, *Health Sciences Associate Clinical Professor of Dermatology*

Robert W. Lingua, M.D. University of Southern California, *Health Sciences Professor of Ophthalmology*

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Haoping Liu, Ph.D. Cornell University, *Professor of Biological Chemistry*

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Paul Lubinsky, M.D. University of Capetown, *Health Sciences Associate Clinical Professor of Pediatrics*

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Hartmut Luecke, Ph.D. William Marsh Rice University, *Professor Emeritus of Molecular Biology and Biochemistry; Physiology and Biophysics*

Zhigang D. Luo, Ph.D. State University of New York at Buffalo, *Professor of Anesthesiology and Perioperative Care; Pharmacology*

Gary S. Lynch, Ph.D. Princeton University, *Professor of Psychiatry and Human Behavior; Anatomy and Neurobiology*

David C. Lyon, Ph.D. Vanderbilt University, *Department Vice Chair and Associate Professor of Anatomy and Neurobiology; Cognitive Sciences (long range cortical circuits)*

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Gerald A. Maguire, M.D. Saint Louis University, *Kirkup Chair in Psychiatry and Human Behavior for the Medical Treatment of Stuttering and Professor of Psychiatry and Human Behavior*

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Danli L. Xing, M.D. Robert Wood Johnson Medical School, *Health Sciences Clinical Instructor of Ophthalmology*

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Hong Zhen Yin, M.D. , *Specialist of Neurology*

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Hiroshi Yoshioka, Ph.D. University of Tsukuba, *Professor in Residence of Radiological Sciences*

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