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ABOUT THE COVER: A sculpture at the Fifth Avenue entrance to Pitt’s Biomedical Science Tower 3 represents chromosomes from a laboratory mouse.
The University of Pittsburgh School of Medicine has a mission to educate science-based, skilled, and compassionate clinicians prepared to meet the challenges of practicing medicine in the 21st century and conduct cutting-edge biomedical research that betters the human condition and advances the fundamental understanding of medical science.

In the only truly objective metric by which the overall stature of research-focused institutions can be assessed in a nationally competitive context, the University of Pittsburgh moved into the top 10 list of recipients of National Institutes of Health (NIH) funding in 1998 and has remained within this enviable echelon ever since. In fiscal year 2014, the faculty of the University of Pittsburgh ranks fifth in dollars awarded, with more than $456 million in total funding. The faculty of the medical and public health schools also ranks fifth, with funding of more than $390 million.

The School of Medicine operates on a global stage, with active collaborations connecting Pittsburgh with China, Colombia, Ghana, Honduras, India, Italy, Kazakhstan, Malawi, the Philippines, and many other nations.
ARTHUR S. LEVINE, MD, is senior vice chancellor for the health sciences and John and Gertrude Petersen Dean of the School of Medicine at the University of Pittsburgh. Since arriving at Pitt in 1998, Dr. Levine has been instrumental in fostering the University’s remarkable rise in research ranking and many advances in medical education.

Previously, Dr. Levine served at the National Institutes of Health for more than three decades, having joined the National Cancer Institute in 1967. From 1982 to 1998, he was scientific director of the National Institute of Child Health and Human Development, widely recognized as one of the world’s leading centers in developmental biology.

 Earlier in his career, Dr. Levine played a leading role in clinical research on childhood malignancies, and he was one of the first to carry out systematic investigations on the prevention and treatment of opportunistic infections among cancer patients. His current research efforts focus on the molecular mechanisms of DNA damage and repair.

Dr. Levine, who has authored or coauthored more than 250 scientific publications, has been widely recognized for his achievements. He received the Meritorious Service and the Distinguished Service Medals of the United States Public Health Service, the Surgeon General’s Exemplary Service Medal, the NIH Director’s Award, and the Distinguished Alumnus Award and an Honorary Doctor of Humane Letters degree from the Rosalind Franklin University of Medicine and Science, formerly the Chicago Medical School.

Dr. Levine is a graduate of Columbia College, where he majored in comparative literature. He earned his MD from the Rosalind Franklin University of Medicine and Science. Prior to joining NIH, he completed a pediatrics residency and a fellowship in hematology and biochemical genetics at the University of Minnesota.
As of the 2015–16 academic year, 583 MD students are registered in the School of Medicine, including 273 (47 percent) women and 310 (53 percent) men. Of these, 152 (26 percent) are Pennsylvania residents; approximately 15 percent of Pitt medical students are from groups that are underrepresented within the medical profession.

There are 274 registrants in PhD programs (including those in the Medical Scientist Training Program), 73 students in MS programs, and 45 students in certificate programs.

For 2015, 5,371 applications for admission were received and 840 prospective students were interviewed for a first-year class of 148 students.

The School of Medicine has 2,262 regular and 2,523 volunteer faculty members. Of these, 89 are current members of the Academy of Master Educators, an organization that recognizes and rewards excellence in medical education.

Pitt’s medical school curriculum blends innovative teaching methods with tried-and-true techniques. Here are some highlights:

Patient/Doctor Relationship
In addition to the rigorous traditional study of the basic sciences in the first two years of medical school, Pitt offers courses that deal with the human side of medicine from the very beginning of the medical school experience. In these courses, students encounter real patients, learn how to establish a patient/doctor relationship, and develop patient interviewing skills as well as the techniques for conducting a physical examination. Starting in their first year, students are exposed to medicine being practiced in primary care ambulatory settings, including clinics and physicians’ offices.

Scholarly Project
At the University of Pittsburgh, all medical students engage in a scholarly research project. This program has been incorporated longitudinally throughout the curriculum as an indispensable component of medical education and has been broadly defined to provide a wide range of opportunities (including traditional laboratory-based or clinical research experiences as well as health policy, epidemiology, comparative effectiveness, and qualitative research) to appeal to individual students’ interests and long-term career aspirations. The intent is to expose students to the mechanics of scientific investigation; teach them how to develop a hypothesis and how to collect, analyze, and interpret data to test it; encourage them to pursue research opportunities; and help them understand the structure of thought that is so critical to the successful practice of clinical medicine.
Among the program’s distinctive elements are thorough preparatory course work designed to foster the skills that students need to successfully conduct scholarly work, an emphasis on developing strong faculty mentors to ensure the program’s ongoing success, and creative use of electronic technology to promote learning and mentorship. Many students initiate their scholarly projects by participating in a summer research program between the first and second years of medical school, while others might take a year off to pursue an intensive research program at Pitt or elsewhere. Some students find the experience so rewarding that they consider careers as physician-scientists. The goal in every case, however, is to enhance their ability to think independently, critically, and creatively and, thereby, make them better equipped to practice medicine in the 21st century.

The Class of 2015 was the eighth class to complete the four-year scholarly project experience. Their endeavors resulted in 67 fellowships, grants, or other national or state awards; 56 School of Medicine or local awards; coauthorship of 192 papers submitted to peer-reviewed journals; and 331 presentations at national or international meetings.  
>> For more information: http://scholarlyproject.medschool.pitt.edu/

Simulation Training
All Pitt medical students engage in comprehensive learning activities using whole-body simulators; about two-thirds of them opt for additional elective time with these sophisticated training tools, which provide the opportunity for students to develop resuscitation, defibrillation, auscultation, airway management, and other clinical skills. Task-specific models are used to develop proficiency in vascular access and suturing, among other procedures, and the proper techniques for conducting breast, pelvic, and prostate exams. Pitt’s Peter M. Winter Institute for Simulation Education and Research (WISER) is considered one of the world’s leading academic medical simulation training centers, featuring highly sophisticated and lifelike computer-based simulation technology designed to enable students to learn, practice, and perfect clinical procedures before performing them on actual patients.

>> For more information: www.wiser.pitt.edu

Problem-Based Learning
In the early 1990s, Pitt was among the first medical schools to adopt a teaching method known as problem-based learning, or PBL, which engages small, faculty-mentored groups of first- and second-year students in clinical diagnostic exercises built from actual cases of graduated difficulty. Now widely used in American medical schools and around the world, PBL builds collaborative problem-solving skills and teaches students how to "mine" vast information resources and apply them to specific clinical cases. In PBL sessions, faculty members serve as facilitators rather than traditional instructors. Pertinent facts are presented in such a way that students must continuously analyze and re-evaluate them, seek supporting evidence, and focus their thinking to reach a differential diagnosis. This mode of instruction is an important, well-integrated component of our curriculum and catalyzes the development of cognitive skills in our students.

In addition, team-based learning (TBL) has been introduced into a growing number of courses, including Human Genetics, Cellular and Pathologic Basis of Disease, and Behavioral Medicine, to enhance active learning and student
engagement. TBL is a teaching method that emphasizes independent study immediately followed by intensive application of concepts to challenging problems by small teams of students.

Integrated Life Science Program
The fourth-year Integrated Life Science (ILS) Program includes a choice of courses that revisit some aspect of basic science after students have had several years of clinical experience. Because of the level of sophistication that students have developed by this stage in their medical education, they can better understand the relevance of basic science to clinical problems. Each student is required to complete one of the following ILS courses: Clinical Pharmacology, Exercise Is Medicine, Infectious Disease in Obstetrics and Gynecology, Molecular Medicine, Neoplasia and Neoplastic Disease, Neurosurgery Technologies, Science of Resuscitation, or Surgical Integrated Life Sciences.

Standardized Patients
Throughout their medical education, students encounter standardized patients — actors and actresses who are specially trained to present realistic and consistent behavior, symptoms, and medical histories in simulated doctor-patient interactions. These sessions are designed to help students develop their clinical skills and learn how to deal with unusual or unexpected circumstances in a safe and constructive environment. Students find that these experiences reinforce lessons they have learned through other components of the curriculum and, in a realistic way, make them relevant. A standardized patient can contribute to the learning process by stepping out of character to offer feedback on the encounter and an assessment of the student’s performance.

Evidence-Based Medicine
An important skill set for physicians today is being able to interpret and evaluate new findings reported in the medical literature and to apply these advances to real-life circumstances. For instance, the ability to understand and rapidly evaluate conflicting reports on a new or even a commonly used drug is increasingly important in daily patient care. Evidence-based medicine — an ongoing focus of our curriculum — teaches students how to critically evaluate the medical literature and to use medical databases to make patient care decisions based on best practice.

GLOBAL ENGAGEMENT
The School of Medicine operates on a global stage, with active collaborations connecting Pittsburgh with China, Colombia, Ghana, Honduras, India, Italy, Kazakhstan, Malawi, the Philippines, and many other nations. Medical students and young investigators who train in this milieu encounter a wide variety of influences and discover a great many opportunities to broaden their horizons. Here are a few examples:

>> The School of Medicine recently signed a historic agreement with Tsinghua University — one of China’s elite institutions of higher learning for science and technology. Beginning in 2012, the majority of students at Tsinghua’s new medical school spend two years in Pittsburgh immersed in biomedical research.
Pitt’s Tsinghua Scholars program now has more than 50 alumni and 28 active scholars on campus.

Also in 2012, the School of Medicine began a collaboration with China’s prestigious Central South University Xiangya School of Medicine. Under the five-year agreement, Pitt provides two years of rigorous biomedical research training to medical students, most of whom have already undergone six years of medical school, including clinical training. As of September 2015, 22 of these medical students are on campus, and seven have recently returned to Changsha to graduate from medical school after their two years in Pittsburgh. In 2014, Xiangya Hospital formed a partnership with UPMC to establish an international medical center that will improve access to high-quality care for patients within the region.

The Ri.MED Foundation was created in 2006 as an international partnership among the Italian government, the Region of Sicily, the University of Pittsburgh, and UPMC. Since 2007, Ri.MED has sponsored research fellowships at the School of Medicine for young Italian investigators. These Ri.MED fellows will form the core faculty of the new Biomedical Research and Biotechnology Center, to be built in Sicily.

In 2013, the School of Medicine was selected to guide the Republic of Kazakhstan’s Nazarbayev University (NU) as it establishes its own medical school, which aims to educate physician-scientists to become this Central Asian nation’s next leaders in health care, medical education, and biomedical research. Pitt has partnered with NU to institute a U.S.-style curriculum; design and develop teaching facilities; recruit and train school leadership and faculty; plan organizational and administrative structures, policies, and procedures; and develop courses, syllabi, and clinical experiences with the participation of physician-educators from Kazakhstan and around the globe. In August 2015, the NU School of Medicine welcomed its first class of 20 students.

OPPORTUNITIES FOR IN-DEPTH STUDY

Optional areas of concentration enable students to cultivate their enthusiasm for a particular aspect of medicine through hands-on experiences, faculty mentoring, research projects, and other activities throughout all four years. Topics include disabilities medicine, medical humanities, geriatric medicine, women’s health, health care to underserved populations, neuroscience, global health, integrative health, resuscitation medicine, public health, and patient safety and quality improvement.

Students interested in global health can participate in a variety of clinical and research opportunities through summer placement, fourth-year electives, or the area of concentration in global health. Some of the countries in which students have been involved are Malawi, Kenya, Honduras, Haiti, Peru, the Philippines, India, Ireland, China, Uganda, Zambia, Mozambique, and Italy. In recent years, four Pitt medical students have been selected for international fellowships sponsored by the Centers for Disease Control and Prevention and the Fulbright-Fogarty program. On a broader scale, Pitt’s Center for Global Health is coordinating University-wide efforts to establish international partnerships and collaborative initiatives in global health research, education, service, and policy to effectively address health issues affecting populations around the world.
The **Medical Scientist Training Program** (MSTP) provides an opportunity for medical students interested in a biomedical research career to undertake doctoral work at either the University of Pittsburgh or Carnegie Mellon University in basic science, engineering, or public health. After two years of medical school, students complete PhD work before returning to medical training. Both degrees are completed in an average of seven years. The program, funded by a grant from NIH with support from the Office of the Dean, offers full tuition and a yearly stipend.  

[For more information: www.mdphd.pitt.edu](http://www.mdphd.pitt.edu)

The **Clinical Scientist Training Program** (CSTP) gives medical students interested in clinical research careers an opportunity to delve more deeply into their scholarly projects during a fifth year of training. Students apply to the CSTP in January of the year they plan to commit to full-time research (typically between the third and fourth years of medical school). Selected students are appointed as research fellows and receive a living stipend, travel funds, health insurance, and tuition toward a graduate certificate in clinical research. After successful completion of the fellowship year, they receive a CSTP scholarship toward the final year of medical school.  

[For more information: www.icre.pitt.edu/cstp-m/index.aspx](http://www.icre.pitt.edu/cstp-m/index.aspx)

The **Physician Scientist Training Program** (PSTP) is a five-year program for exceptionally talented students who, in addition to the regular curriculum, dedicate a year and two summers to laboratory-based research training and enrichment courses that prepare them for careers in academic medicine. PSTP students receive partial tuition assistance for the four years of medical school plus a stipend during the two research summers and the research year.  

[For more information: www.pstp.pitt.edu](http://www.pstp.pitt.edu)

**Other Research Opportunities**

Upon completing their first year of medical studies, approximately 80 percent of the students in the Class of 2018 engaged in various summer research programs. In addition, some medical students take a year off at some point to earn a master’s degree in public health, biomedical ethics, or a related field; others participate in a year-long program of specialized study or research available through Pitt’s CSTP, PSTP, or an individual department; and still others take part in prestigious national fellowship programs like those sponsored by NIH, the Sarnoff Cardiovascular Foundation, or the Howard Hughes Medical Institute.  

**DEGREE PROGRAMS**

Degrees offered at the School of Medicine include the doctor of medicine (MD), doctor of philosophy (PhD), master of science (MS), and several specialized certificates.

The **Interdisciplinary Biomedical Graduate Program** (PhD) combines a core curriculum with research and a dissertation focused on a choice of molecular genetics and developmental biology, cell biology and molecular physiology, cellular and molecular pathology, immunology, molecular pharmacology, or molecular virology and microbiology.
Laboratory research in theory and practice is a major focus of the cross-campus Center for Neuroscience Graduate Training Program (PhD), which aims to develop general competence in neuroscience as well as expertise in one or more areas of specialization.

The Biomedical Informatics Training Program (PhD, MS, or certificate) applies modern information technology to health care, education, and biomedical research.

Offered by the University of Pittsburgh and Carnegie Mellon University, the Joint Program in Computational Biology (PhD) is designed to develop expertise in the use of computational methods to identify and solve complex biological problems.

The interdisciplinary Molecular Biophysics and Structural Biology Graduate Program (PhD) trains students in a broad range of cutting-edge technologies used to study the function of biological macromolecules in physical terms and covers a diversity of research topics in molecular biophysics and structural biology.

The goal of the Integrative Systems Biology Program (PhD) is to train students in emerging transformative methodologies that emphasize genomics, proteomics, complex cellular pathways, and the dynamics of cellular and organismal function. Students in this program operate at the exciting interface between basic bench-top biology, computational analysis of big data sets, and the emergence of 21st century clinical translation.

Among offerings from Pitt’s Institute for Clinical Research Education (ICRE) are programs in Clinical and Translational Science (PhD), Clinical Research (MS or certificate), and Medical Education (MS or certificate).

INSTITUTES AND CENTERS

Aging Institute
Charles F. Reynolds III, MD, director

Brain Institute
Peter L. Strick, PhD, director

Center for Military Medicine Research
Rocky S. Tuan, PhD, director

Center for Vaccine Research
Donald S. Burke, MD, director

Clinical and Translational Science Institute
Steven E. Reis, MD, director

Drug Discovery Institute
D. Lansing Taylor, PhD, director

Vascular Medicine Institute
Mark T. Gladwin, MD, director

Institute for Clinical Research Education
Wishwa N. Kapoor, MD, MPH, director

Institute for Personalized Medicine
Jeremy M. Berg, PhD, director
Magee-Womens Research Institute
Yoel Sadovsky, MD, director

McGowan Institute for Regenerative Medicine
William R. Wagner, PhD, director

Pittsburgh Institute for Neurodegenerative Diseases
J. Timothy Greenamyre, MD, PhD, director

Thomas E. Starzl Transplantation Institute
Fadi G. Lakkis, MD, director

University of Pittsburgh Cancer Institute
Nancy E. Davidson, MD, director

RESEARCH STRENGTHS

Within the School of Medicine, areas of research concentration include stem cell biology and tissue engineering; genome stability and tumorigenesis; vascular, developmental, structural, and computational and systems biology; comparative effectiveness research; immunology; and clinical research/clinical trials, among others.

Drug Discovery
The University of Pittsburgh Drug Discovery Institute investigates the underlying biological and chemical processes of human disease to identify drug targets and develop novel therapeutics that are effective, safe, and potable. Researchers at DDI use quantitative systems pharmacology (QSP), an approach that combines computational and experimental methods to elucidate, design, validate, and apply new pharmacological concepts and strategies to the development and use of therapeutics and diagnostics. QSP provides an integrated “systems” approach assisted by high-content screening techniques to explore mechanisms of drug action and is a major theme of DDI’s partnership with academia and industry. DDI is on the cutting edge of the effort to fully illuminate the therapeutic applications of new and existing drugs for personalized medicine.

Vaccine Development
Faculty at Pitt’s Center for Vaccine Research (CVR) are working to develop vaccines for viruses and other infectious agents of global importance, including those that occur naturally as well as those that could potentially be used as agents of bioterrorism. Building on the University’s existing strengths in the study of SARS, AIDS, influenza, immunology, and drug discovery, the center engages a cross-section of scientists from an array of disciplines in infectious disease research. Active investigations span basic research on molecular mechanisms of infectious diseases to the development of diagnostics, therapeutics, and vaccines.

Imaging
Imaging technologies are important tools for Pitt faculty investigating the human body and, in particular, the brain. The University’s Center for Biologic Imaging is one of the largest optical imaging facilities in the country, enabling sophisticated microscopy, biophotonics, and live-cell visualization. Advances in brain imaging made at Pitt include high-definition fiber tracking, which reveals internal brain structures in three-dimensional, color-coded detail, and Pittsburgh Compound B, an agent that enables imaging of Alzheimer’s disease-related amyloid plaques.
Neuroscience
In addition to imaging tools, Pitt faculty use surgery and clinical and basic science expertise to unlock the mysteries of normal and abnormal brain function. Concentrated primarily in the Departments of Psychiatry, Neurobiology, Neurological Surgery, and Neurology in the School of Medicine and the Departments of Neuroscience and Psychology in the Dietrich School of Arts and Sciences, these investigators are working to develop novel treatments and cures for brain disorders, including neurodegenerative diseases, spinal cord injuries, tumors, and psychiatric illnesses. Since 2014, their efforts have received additional support through the creation of a University-wide Brain Institute.

Personalized Medicine
The School of Medicine and UPMC established the Institute for Personalized Medicine in 2013. The institute’s programmatic focus is to apply new knowledge in genetics, genomics, and other disciplines toward the advancement of evidence-based medicine, with the ultimate goals of improving disease prevention and treatment models for individuals and the population at large. The University’s mission is to become a major leader in personalized medicine research, yielding improved outcomes and decreased costs.

Big Data
Leveraging “big data” to revolutionize health care and wellness is the focus of the new Pittsburgh Health Data Alliance, a powerful collaboration announced in March 2015 by the University of Pittsburgh, UPMC, and Carnegie Mellon University. “Big data” refers to the massive amount of data routinely generated in the course of modern health care operations—patient information in electronic health records, diagnostic imaging, prescriptions, genomic profiles, insurance records, and even data from wearable devices. The new data alliance comes on the heels of Pitt’s four-year, $11 million award from NIH to lead a Big Data to Knowledge Center of Excellence in Computing, which is a collaboration of researchers at Pitt, CMU, Yale University, and the Pittsburgh Supercomputing Center.

$456 million in NIH funding in 2014
$713 million for research in 2015

Research Funding
Funding from the National Institutes of Health (NIH) is considered the benchmark of overall stature among research-intensive academic health centers. Since 1998, the University of Pittsburgh has ranked among the top 10 recipients of NIH funding.

In an analysis of NIH funding for fiscal year 2014, the faculty of the University of Pittsburgh ranks fifth in dollars awarded, with more than $456 million in total funding and more than 90 percent of this funding going to the Schools of the Health Sciences. The faculty of the medical and public health schools also ranks fifth, with total NIH funding of more than $390 million.
Overall, the University of Pittsburgh spent approximately $713 million for research of all kinds in fiscal year 2015; approximately 80 percent of this amount was for research in the health sciences.

As a result of its success, the School of Medicine has invested significantly in new research infrastructure in disciplines like developmental, cellular, structural, and computational and systems biology and in faculty recruitment.

**UPMC (UNIVERSITY OF PITTSBURGH MEDICAL CENTER)**

Through its affiliation with UPMC, the School of Medicine offers students opportunities for clinical training, educational experiences, and research in virtually any medical specialty. Although legally separate and distinct entities, the School of Medicine and UPMC share mutual interdependence and a synergy that is reflected in a common commitment to excellence in education, research, and clinical care.

As an integrated global health enterprise and one of the nation’s leading academic health care systems, with $12 billion in revenues, UPMC has more than 60,000 employees; nearly 5,700 affiliated physicians, including more than 3,500 employed by the health system and approximately 1,400 who are also full-time faculty of the School of Medicine; more than 20 tertiary care, specialty, and community hospitals; as well as specialized outpatient facilities, cancer centers, rehabilitation facilities, retirement and long-term care facilities, imaging services, doctors’ offices, and a health insurance plan covering more than 2.7 million members.

As of August 1, 2015, the UPMC Medical Education Program has 1,113 medical residents and 372 clinical fellows in programs approved by the Accreditation Council for Graduate Medical Education, plus 67 clinical fellows in other programs.

**For the 16th time in recent years, UPMC appears on the U.S. News & World Report Honor Roll of America’s Best Hospitals for 2015.** UPMC Presbyterian Shadyside ranked 13th overall, making it the highest-ranked medical center in Pittsburgh, and was one of only 15 hospitals nationwide that made the Honor Roll of the “nation’s best” in the 2015 survey. Nationally, UPMC is recognized for excellence in 14 of 16 specialty areas and is among the top 10 hospitals in six specialties: ear, nose, and throat; gastroenterology; gynecology; psychiatry; orthopaedics; and rheumatology. In addition, Children's Hospital of Pittsburgh of UPMC is ranked eighth overall and ranked in all 10 pediatric specialties included in the magazine’s survey, six of which were ranked in the top 10.

The core of the health system is located in the Oakland, Shadyside, and Lawrenceville neighborhoods of Pittsburgh, where the following health care facilities are interwoven with University of Pittsburgh facilities: UPMC Presbyterian, UPMC Montefiore, Eye and Ear Institute, Magee-Womens Hospital of UPMC, Western Psychiatric Institute and Clinic of UPMC, Hillman Cancer Center, UPMC Shadyside, and Children’s Hospital of Pittsburgh of UPMC.
Hillman Cancer Center is the flagship facility in the UPMC CancerCenter network of more than 40 clinical care facilities and home of the University of Pittsburgh Cancer Institute, one of only 45 facilities in the nation (and the only one in Western Pennsylvania) designated by the National Cancer Institute as a Comprehensive Cancer Center for cancer treatment, research, education, and prevention.

UPMC’s clinical programs have earned international recognition, drawing patients from around the world. In addition, the medical center is now transporting its expertise to other countries, including Italy (where it manages the Mediterranean Institute for Transplantation and Advanced Specialized Therapies in Palermo) and Ireland as well as ventures in Canada, China, Colombia, and Kazakhstan. With a long and distinguished record of pioneering and perfecting organ transplantation, UPMC dominates the field not only in terms of clinical expertise for the number and types of procedures performed but also in terms of research, development of new therapies, and training of transplant surgeons and physicians.

In recognition of its leadership in using information technology to improve clinical outcomes and efficiency, UPMC was named one of the country’s “Most Wired” health systems for the 17th consecutive year — the only health care organization to be consistently recognized with that distinction during that time frame — according to Hospitals & Health Networks, the journal of the American Hospital Association (AHA).

For more information about UPMC: www.upmc.com
The city of Pittsburgh is home to three rivers (the Allegheny and Monongahela converge here to form the Ohio), more bridges than any other city in the world (by some estimates), eight colleges and universities, nine Fortune 500 companies, and the remnants of Fort Duquesne, which was built in the 1750s and later renamed Fort Pitt.

The population of the seven-county region is nearly 2.4 million, with some 304,000 living within the city. Pittsburgh is vibrant, safe, and affordable; it features the amenities of a large city with small-town civility. (In fact, *The Economist* gave Pittsburgh the jolly good rating of most livable city in the continental United States in 2014.)
Cultural opportunities abound, with museums, live theater, opera, dance, gallery exhibits, botanical gardens, a zoo, aquarium, and aviary, and an eclectic music scene that spans the symphonic to the serendipitous (Bruce Springsteen has been known to drop in unannounced to join his friends Joe Grushecky and the Houserockers) to the surreal (performer Phat Man Dee is billed as a “cosmic jazz chanteuse”). Annual festivals and concert series celebrate jazz, art, and folk culture.

Three major professional sports teams—the 2009 Super Bowl champion Pittsburgh Steelers; 2009 Stanley Cup champion Pittsburgh Penguins; and the Pittsburgh Pirates, a franchise that is now a perennial contender (having reached the postseason in 2013 and 2014 after a long absence)—provide plenty of reasons to cheer, or jeer, depending on the season. In addition, the University is home to a full range of sports teams, the Pitt Panthers, which typically offer some of the finest performances in college athletics and joined the esteemed Atlantic Coast Conference in 2013. For athletes and spectators alike, there is the Pittsburgh Marathon, usually in early May, when more than 30,000 elite and amateur athletes run up to 26.2 miles through the city of bridges.

Oakland, the neighborhood in which Pitt is located, is unquestionably the intellectual center of the community. In the heart of Pitt’s campus is the 42-story Cathedral of Learning, the second tallest university building in the world and home to more than two dozen Nationality Rooms styled to reflect the culture of the faraway places to which many Pittsburghers can trace their roots.

Pittsburgh’s hills and valleys are home to 88 neighborhoods, many of them embracing distinct ethnic and cultural flavor plus traces of Old World attitudes and culture. Possibly the most famous, Mister Rogers’ Neighborhood, a children’s television show broadcast from here for 33 years, reflected in its own simple and charming way a nice place to be—which is, perhaps, the best way to describe Pittsburgh.
DEPARTMENTS

Anesthesiology
Howard B. Gutstein, MD, Chair

Biomedical Informatics
Michael J. Becich, MD, PhD, Chair

Cardiothoracic Surgery
James D. Luketich, MD, Chair

Cell Biology
Alexander D. Sorkin, PhD, Chair

Computational and Systems Biology
Ivet Bahar, PhD, Chair

Critical Care Medicine
Derek C. Angus, MD, MPH, Chair

Dermatology
Louis D. Falo, MD, PhD, Chair

Developmental Biology
Cecilia Lo, PhD, Chair

Emergency Medicine
Donald M. Yealy, MD, Chair

Family Medicine
Jeannette E. South-Paul, MD, Chair

Immunology
Mark J. Shlomchik, MD, PhD, Chair

Medicine
Mark T. Gladwin, MD, Chair

Microbiology and Molecular Genetics
Thomas E. Smithgall, PhD, Chair

Neurobiology
Peter L. Strick, PhD, Chair

Neurological Surgery
Robert M. Friedlander, MD, MA, Chair

Neurology
Lawrence R. Wechsler, MD, Chair

Obstetrics, Gynecology, and Reproductive Sciences
Robert P. Edwards, MD, Chair

Ophthalmology
Joel S. Schuman, MD, Chair

Orthopaedic Surgery
Freddie H. Fu, MD, DSc (Hon.), Chair

Otolaryngology
Jonas T. Johnson, MD, Chair

Pathology
George K. Michalopoulos, MD, PhD, Chair

Pediatrics
David H. Perlmutter, MD, Chair

Pharmacology and Chemical Biology
Bruce A. Freeman, PhD, Chair

Physical Medicine and Rehabilitation
Michael L. Boninger, MD, Chair

Plastic Surgery
J. Peter Rubin, MD, Chair

Psychiatry
David A. Lewis, MD, Chair

Radiation Oncology
Joel S. Greenberger, MD, Chair

Radiology
Jules Sumkin, DO, Chair

Structural Biology
Angela Gronenborn, PhD, Chair

Surgery
Timothy R. Billiar, MD, Chair

Urology
Joel B. Nelson, MD, Chair
Arthur S. Levine, MD  
Senior Vice Chancellor for the Health Sciences  
John and Gertrude Petersen Dean of Medicine

Ann E. Thompson, MD  
Vice Dean

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Assistant Dean for Medical Student Research

**Margaret Conroy, MD**  
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**JoAnne L. Flynn, PhD**  
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**Rebecca P. Hughey, PhD**  
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**Saleem Khan, PhD**  
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**Frank J. Kroboth, MD**  
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**Cynthia Lance-Jones, PhD**  
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**James B. McGee, MD**  
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**Satdarshan (Paul) S. Monga, MD**  
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**Chenits Pettigrew Jr., EdD**  
Assistant Dean for Admissions and Financial Aid

**Ora A. Weiss, PhD**  
Assistant Dean for Faculty Development

**Darlene F. Zellers, PhD**  
Assistant Dean for Postdoctoral Affairs

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**Barbara E. Barnes, MD, MS**  
Associate Dean for Continuing Medical Education

**Donald B. DeFranco, PhD**  
Associate Dean for Medical Student Research

**Joan Harvey, MD**  
Associate Dean for Student Affairs

**Dena Hofkosh, MD**  
Associate Dean for Faculty Affairs

**John P. Horn, PhD**  
Associate Dean for Graduate Studies

**John F. Mahoney, MD**  
Associate Dean for Medical Education

**Rita M. Patel, MD**  
Associate Dean for Graduate Medical Education

**Beth M. Piraino, MD**  
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**Gwendolyn A. Sowa, MD, PhD**  
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Associate Dean for the Medical Scientist Training Program  
Associate Dean for the Physician Scientist Training Program

**Peter J. Veldkamp, MD, MS**  
Associate Dean for Global Health Education

**Executive Director**

**Cynthia M. Bonetti, MBA**  
Executive Director for Admissions and Financial Aid