

Houston Methodist Institute for Academic Medicine

Facts and Statistics

2016

Houston Methodist's mission of leading medicine is grounded in a commitment to bringing our patients medical breakthroughs by investing in clinical, research, and education innovation. The Houston Methodist Institute for Academic Medicine supports the research and education pillars of Houston Methodist, coordinating more than 540,000 square feet of research space embedded throughout the academic medical center.

The Institute cultivates a global research collaboration network of interdisciplinary teams that moves medical research from concept to cure, educates health care professionals in the latest medical breakthroughs, and helps patients around the world live longer healthier lives.



Houston Methodist

- 7 hospitals
- 2,043 operating beds
- 814,309 outpatient visits
- 101,508 admissions
- 20,000 employees

Funding

- \$131 million in annual research expenditures
- \$48 million in total extramural funding
- \$17.5 million in National Institutes of Health funding
- Top 20 U.S. domestic hospital based research institutes

Research Space

- 440,000 sq ft dedicated research building with 12 stories & 150 lab benches
- 100,000 additional sq ft research space embedded throughout hospital

Affiliations & People

- 603 faculty
- 1607 credentialed researchers
- National Affiliates: Weill Cornell Medical College, Weill Cornell Graduate School of Medical Sciences, Texas A&M, and the University of Houston
- International Affiliates: Chinese Academy of Sciences Graduate School, Tsinghua University, Swansea University, The Monterrey Institute of Technology, Tel Aviv University, University of Padua

Research

- 1001 clinical protocols
- 287 active clinical trials
- 3 National Cancer Institute funded multidisciplinary centers:
 - The Center for Transport Oncophysics
 - The Texas Center for Cancer Nanomedicine
 - The Center for Systematic Modeling of Cancer Development
- 3 interdisciplinary departments: Cardiovascular Sciences, Nanomedicine, and Systems Medicine & Bioengineering
- 8 research programs including cancer, outcomes research, inflammation & epigenetics, infectious diseases, genomic medicine, immunobiology and transplant science, neurosciences, and regenerative medicine

Technology

- State-of-the-art imaging facility including commercial-grade SPECT, wide-bore MRI and PET
- Current Good Manufacturing Practices (cGMP) facility to produce pharmaceuticals, vaccines and nanoparticles for testing and research
- Microscopy: confocal laser scanning microscope, *in vivo* multi-photon laser scanning microscope, field emission scanning electron microscope
- 1 cyclotron to create radioisotopes for advanced diagnostic and therapeutic imaging
- 9 hot cells (chemistry labs in lead boxes) in cGMP radiochemistry lab to produce radiopharmaceuticals
- Rapid transport system for short-lived radiopharmaceuticals from hot cells to research floors
- 20 cores for access to cutting-edge technology and data analysis, including molecular diagnostics, proteomics, flow cytometry, pathology, biomedical informatics & biostatistics support, microarray and a serum/tissue bank

Training & Education

- Offer joint MD and MD/PhD programs with Texas A&M University and Master in Clinical Translational Management with University of St. Thomas
- 567 trainees (residents, postdoctoral fellows & students)
- 44 GME programs
- 36 ACGME-accredited programs, 8 GMEC-sponsored fellowship programs
- 11,000+ CME learners

Houston Methodist Institute for Technology, Innovation & Education (MITIESM)

- Surgical training and virtual hospital facility
- 6,7693 learners
- 15 procedural skills stations
- Hybrid operating suite
- 3 research operating rooms
- Inanimate skills lab
- Video editing suite

