Case Western Reserve University School of Medicine has been a national leader in health care education, biomedical research, and commitment to its community since its founding in 1843. The school has created an intellectually sophisticated, service-oriented culture that enables bold ideas and new ways of thinking to take root and flourish.

Building on a stellar legacy, including praise in the seminal 1910 Flexner Report, today the School of Medicine is consistently ranked among the top-25 medical schools in the United States as well as earning distinction as the #1 medical school and largest biomedical research institution in Ohio. It also regularly places in the top tier of U.S. medical schools for NIH research funding.

Our educational offerings comprise nearly two dozen programs and degree options for prospective students, including one MD degree with three medical programs, the university program, the medical training scientist program MD/PhD, and the Cleveland Clinic Lerner College 5 year intensive research program, the PhD, numerous MS degrees, and our physician assistant program.

In 2019 the Health Education Campus (HEC) building opened. The 485,000 square foot high-tech facility takes our longstanding emphasis on interprofessional education to the next level by bringing together medical students from our various programs (described below). CWRU’s School of Dental Medicine, the Frances Payne Bolton School of Nursing, and the Jack, Joseph and Morton Mandel School of Applied Social Sciences, as well as the medical school’s physician assistant program.

Research

The School of Medicine has earned a sterling record of national leadership as a research institution, consistently ranking in the top tier of U. S. medical schools for federal research funding from the National Institutes of Health. A recent Academic Medicine study placed the School in the top 15 medical schools nationally based on the achievements of its graduates. Faculty and trainee research is routinely reported in the top journals of all fields.

Within a wide and interdisciplinary research portfolio, the School has strengths in the areas of cancer, big data, imaging, regenerative medicine, and brain health. We are home to more than 30 highly regarded research and teaching institutes and centers ranging from the Center for AIDS Research and Center for Global Health and Diseases to the Digestive Health Research Institute and Stem Cell Ethics Center.

The School is a foundational partner in the Case Comprehensive Cancer Center, which links the cancer research activities of CWRU, Cleveland Clinic, and University Hospitals. Our researchers are supported by eight core facilities such as translational research and clinical trials, computational analysis, and omics and sequencing. We house two highly competitive Specialized Programs of Research Excellence (SPORE) programs – gastrointestinal and cancer disparities – established by the National Cancer Institute. We are the organizing partner for the Cleveland Brain Health Initiative, which includes all of our hospital affiliates and draws on our internationally recognized brain experts to address brain-based diseases such as stroke and Alzheimer’s disease.

Among numerous research-centered awards, we earned a highly competitive Clinical Translational Service Award in partnership with our hospital affiliates – testimony of our entrepreneurial and team-oriented view of science and scholarship.

On the international setting, our Center for Global Health and Diseases focuses on AIDS, tuberculosis, malaria, and other serious medical conditions that threaten world health and quality of life.

Our Uganda-CWRU Research Collaboration, began in 1986 to assist with the HIV/AIDS epidemic, has expanded its remit to include building capacity and providing training through research on such topics as epidemiology, clinical trials, nursing, anthropology, bioethics, biomedical engineering, cancer, and cardiovascular disease.

Our collaboration with Taipei Medical University includes exchange programs and joint research efforts in the areas of cancer, brain science, biomedical engineering, medical device and drug development, geriatrics, and long-term care.

We also partner with the business community on technology development and transfer, helping our researchers develop ideas, secure funding, and commercialize their technology – in the process transforming Cleveland into an “ideapolis.” A growing number of faculty-founded start-up companies have emerged from this effort – with many more in the pipeline.

Commitment to Community

The School of Medicine demonstrates its commitment to the community in many ways. There are programs aimed at improving the health of the community, ranging from healthy-eating initiatives to partnered projects to beginning to look at population and urban health. Our Prevention Research Center for Healthy Neighborhoods fosters partnerships in Cleveland’s urban neighborhoods to prevent and reduce rates of chronic diseases such as diabetes and cardiovascular problems – including culturally appropriate interventions as well as evaluating and strengthening existing community programs. The Office of Cancer Disparities Research in the Case Comprehensive Cancer Center works to reduce the disproportionate burden of cancer on minority populations by promoting health equity-focused research and outreach. Our Youth Enjoy Science (YES) program brings diversity to cancer research by engaging underrepresented minorities in Cleveland-area schools in cancer investigation and study.

Brief History

Since our founding in 1843 Case Western Reserve University School of Medicine has been widely recognized for innovative, inclusive medical education and pioneering biomedical research.

We were one of the first medical schools in the country to employ instructors devoted to full-time teaching and research. Six of the first seven women to receive medical degrees from accredited American medical schools graduated from Western Reserve College (as it was then called) between 1850 and 1856.

Already a leading educational institution for more than a century, in 1952 the School of Medicine initiated the most advanced medical curriculum in the country, pioneering integrated education, a focus on organ systems, and team teaching in the preclinical curriculum. This curriculum instituted a pass/fail grading system for the first two years of medical school to promote cooperation among students instead of competitiveness, introduced students to clinical work and
Eleven Nobel Prize holders have had ties to Case Western Reserve University School of Medicine:

- John J.R. Macleod, a Physiology Professor, shared the 1923 Nobel Prize in Physiology or Medicine for the discovery of insulin. Dr. Macleod completed much of his groundwork on diabetes in Cleveland.
- Corneille J.F. Heymans, a Visiting Scientist in the Department of Physiology, received the Nobel Prize in Physiology or Medicine in 1938 for work on carotid sinus reflexes.
- Frederick C. Robbins, a Pediatrics and Virology Professor, shared the 1954 Nobel Prize in Physiology or Medicine for his pioneering work on the polio virus, which led to the development of polio vaccines.
- Earl W. Sutherland Jr., Professor of Pharmacology, won the 1971 Nobel Prize in Physiology or Medicine for establishing the identity and importance of cyclic adenosine monophosphate (AMP) in the regulation of cell metabolism.
- Paul Berg, who earned his Biochemistry degree from CWRU, received the 1980 Nobel Prize in Chemistry for groundbreaking research in recombinant DNA technology.
- H. Jack Geiger, an alumnus of the medical school, is a founding member and past President of Physicians for Social Responsibility, which shared the 1985 Nobel Peace Prize as part of the international campaign to ban landmines.
- George H. Hitchings, an Oncology Professor, shared the 1988 Nobel Prize in Physiology or Medicine for pathbreaking research leading to the development of drugs to treat leukemia, organ transplant rejection, gout, herpes virus, and AIDS-related bacterial and pulmonary infections.
- Alfred G. Gilman, a graduate of the medical school, shared the 1994 Nobel Prize for Physiology or Medicine for identifying the role of G proteins in cell communication.
- Ferid Murad, a graduate of the medical school, shared the 1998 Nobel Prize in Physiology or Medicine for novel discoveries concerning nitric oxide as a signaling molecule in the cardiovascular system.
- Paul C. Lauterbur, PhD, a Visiting Professor of Radiology, shared the 2003 Nobel Prize in Physiology or Medicine for pioneering work in the development of magnetic resonance imaging.
- Peter C. Agre, who completed a Fellowship in Hematology at CWRU, shared the 2003 Nobel Prize in Chemistry for major discoveries that clarified how salts and water are transported out of and into the cells of the body, leading to a better understanding of diseases of the kidneys, heart, muscles, and nervous system.

Two of our distinguished alumni have served as U.S. Surgeon General: Jesse Steinfield, from 1969 to 1973, and David Satcher, from 1998 to 2002. Dr. Satcher also served as Director of the Centers for Disease Control and Prevention from 1993 to 1998. Another medical school graduate, Julie Gerberding, MD, MPH, followed in his footsteps in 2002 becoming the first woman to be named CDC director.

**A Rich Legacy**

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