

## The Campaign For UC San Diego

At the University of California San Diego, challenging convention is our most cherished tradition. The Campaign for UC San Diego is a university-wide comprehensive fundraising effort to transform the student experience, our campus, and ultimately the way humanity approaches problems and develops solutions.



# UC San Diego Health Research

## Creating New Possibilities in the Future of Health Care

**Collaborative innovation is an integral part of who we are** at UC San Diego and UC San Diego Health. We partner across campus, across disciplines, and even across institutions to nurture a culture that sparks discovery, advances clinical care, and fulfills our goal of creating a healthier world — one life at a time — through new science, new medicine, and new cures. Drawing upon our expert faculty, world-class resources, and brilliant partners across the Torrey Pines Mesa, we are uniquely positioned to redefine the future of health care through groundbreaking basic and translational research.

**Working with other research leaders**, we form interdisciplinary powerhouses to accelerate our ability to diagnose, prevent, treat, and even cure disease. We use our UC San Diego Supercomputer Center to analyze, map, and translate intricate genetic data into fresh research and novel therapies. Our Sanford Stem Cell Clinical Center at UC San Diego Health is home to multiple first-in-human trials, including one targeting type 1 diabetes through a subcutaneous device, and we are the only institution to develop and translate stem cell treatments into viable therapeutic solutions — three in eight years. In addition, our physician-scientists work to understand and treat even the rarest diseases through efforts involving the Undiagnosed Disease Center within UC San Diego School of Medicine, which addresses metabolomics, genomics and epigenomics, and mitochondrial disease; and the Rare Tumor Clinic within the Moores Cancer Center at UC San Diego Health Center for Personalized Cancer Therapy, which serves the 25 percent of patients battling tumors so unique that precision medicine may be the only option.

9th in the nation  
for research funding

*(National Institutes of Health FY 2017)*

250 new clinical trials

Average number initiated each year at  
UC San Diego Health

\$659 million

Faculty research awards (FY 2017)

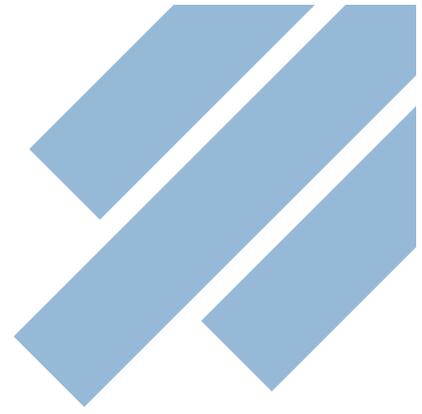
Youngest top-20  
medical school

National research-intensive  
medical schools

*(U.S. News & World Report)*

# Continue the nontradition.

# Priorities for Patient-Centered Research



## Supporting the future of care

We lead the charge toward innovation in emerging and evolving health care fields. We ask bold questions, explore new methods, and commit ourselves to finding effective, real-world therapies that improve outcomes and enhance quality of life for patients who trust us with their care.

You can fuel our extraordinary physician-scientists' and researchers' efforts to transform health every day. These efforts fortify our ability to understand some of the world's most pressing health care issues and translate our findings to clinical trials — and to treatments and cures — better and faster than many of our peer institutions. The following represent just a few of the many ways you can help transform the future of health care research:

- » Propel **precision-medicine research**, which represents one of the most promising opportunities for treating and eventually eradicating cancer, at Moores Cancer Center and the Center for Personalized Cancer Therapy. As we explore immunotherapy, genomics, and stem cell research, we can use the genetic makeup of each patient's cancer to target his or her disease and develop individualized treatment plans.
- » Stimulate research at Shiley Eye Institute at UC San Diego Health that informs **new diagnostic procedures and treatments for complex eye diseases and disorders**. Our skilled physician-scientists do not want to just slow the progression of blindness-inducing diseases, such as macular degeneration and glaucoma — they want to prevent them.
- » Support efforts at Sulpizio Cardiovascular Center at UC San Diego Health to study the **etiology of cardiovascular disease** and **identify unique disease biomarkers**. With a greater understanding of disease mechanisms and progression, we can revolutionize prevention and treatment paradigms.
- » Increase our **Alzheimer's disease research** efforts with a strong focus on **preclinical studies** and **Phase 1 clinical trials**, which are some of the slowest but most integral steps physician-scientists take toward eradicating this devastating disease. Support will also strengthen alliances with key pharmaceutical partners and drive therapeutics to patients.
- » Contribute to our society's ability to **age healthfully**, with investigations into how genetics and medical history affect the aging process, as well as investigations into **new imaging technology** and how brain inflammation relates to cognition. This crucial understanding of neurological mechanics will inform innovative care models and therapies for older adults.

## Help us continue the nontradition.

**With your help**, we can continue our tradition of excellence in discovery, interdisciplinary cooperation, and transformative research as we work to serve our local, national, and international communities through better health. Together with your philanthropic support of the **Campaign for UC San Diego**, we can make even greater things happen.

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[Learn more at campaign.ucsd.edu](https://campaign.ucsd.edu)