

UCSF HEALTH: CARDIOLOGY



Olivia Roberson, PhD

TRANSLATIONAL technology development and commercialization is a complex process because every project is unique.

Innovation Ventures is dedicated to helping the UCSF community navigate those complexities by working up close with our clinicians, research faculty, promising students, and trainees to really understand their science. We have a single purpose, and that is to support the transition of UCSF innovation out of the lab and into the marketplace as more fully developed therapies, with a greater confidence of success. Whether evaluating a new discovery, securing funding, seeking external partnerships, or starting new companies, Innovation Ventures is here to facilitate protection, development, and commercialization of novel and valuable healing inventions.



Preeminent Biomedical Institution

*7 Nobel Laureates
#1 Public Recipient of NIH Funds
Best Hospital in California
3200 Faculty Members*



Partnering with UCSF is Easy

*Discovery Evaluation
Translational Funding
Strategic Alliances
Business Development
Technology Transfer
Licensing
Entrepreneurship*



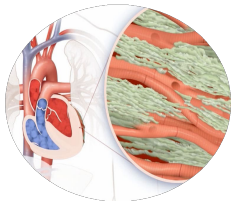
Areas of Research Innovation

*Cardiology
Precision Medicine
Regenerative Medicine and Cell
Therapy
Translational Research
Oncology
Infectious Diseases
Immunology and Inflammation
Diabetes and Metabolism
Medical Devices
Neurology
Ophthalmology
Digital Health*

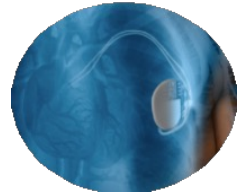


Dr. Jeff Olgin, MD, Chief of Cardiology, UCSF

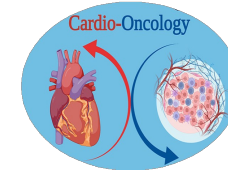
Clinical, Research & Educational Activities



Cardiac Amyloidosis



Cardiac Electrophysiology and Arrhythmia



Cardio-Oncology & Immunology Center



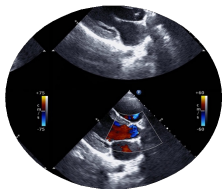
Heart & Lung Transplant Program



Advanced Heart Failure Comprehensive Center



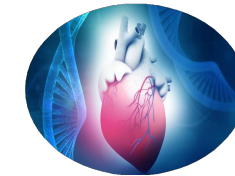
Hypertrophic cardiomyopathy



Echocardiography & Cardiac Imaging



Cardiovascular Research Institute



(Adult) Cardiovascular Genetics



Benioff Pediatric Heart Center



Heart & Vascular Center



Cardiovascular Care & Prevention Center



UCSF Health: Cardiology

By The Numbers



- 14 Clinics
- 90 Clinicians
- 40 faculty research labs
- Nationally ranked for Cardiology





■ Research • Apr. 2, 2024

Quantity of Body Fat, Rather Than Location, May Be Key for Cardiovascular Diseases



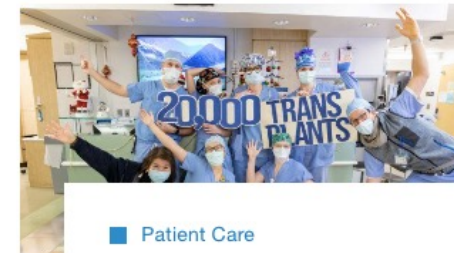
■ Patient Care • May 2, 2023

How 3D Printer Heart Technology Changed a Teen's Life



■ Research • Jul. 19, 2023

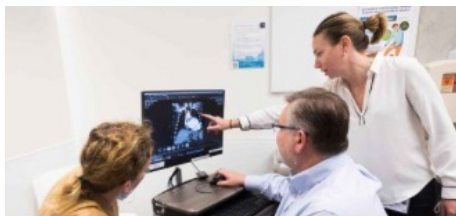
Can Artificial Intelligence Reduce Invasive Testing and Improve Cardiac Diagnostics?



■ Patient Care

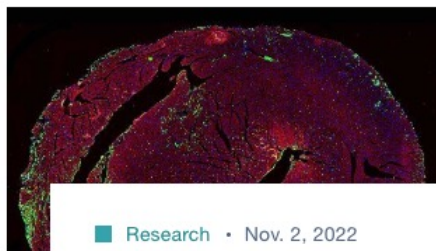
• Dec. 13, 2022

UCSF Health Reaches 20,000 Organ Transplants



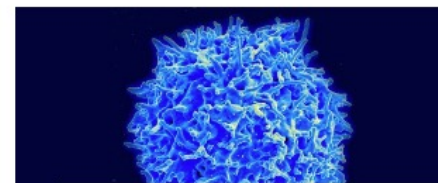
■ Research • Dec. 5, 2023

UCSF Health to Mark 35 Years of Heart Transplantation in 2024



■ Research • Nov. 2, 2022

UCSF Study Sheds Light on the Reasons Behind Sex Differences in Myocarditis



■ Research • Nov. 17, 2022

Myocarditis in Cancer Patients Is Driven by Specific Immune Cells



■ Research • Nov. 30, 2022

UCSF Researchers Develop Prediction Model of Aortic Aneurysm

A photograph of two medical professionals, a woman with long curly hair and a man, both wearing white lab coats and light blue surgical masks. They are looking down at a document held by the man. The background shows a clinical hallway with fluorescent lights and a bulletin board on the left.

UCSF Cardiology Practice & Research Programs

WORLD RENOWNED EXPERTS IN BASIC &
CLINICAL RESEARCH

- DIVISION OF CARDIOLOGY, DEPT. OF MEDICINE
- CARDIOVASCULAR RESEARCH INSTITUTE (CVRI)



JEFF OLGIN, MD

- Chief of UCSF Cardiology; Co-director of Heart and Vascular Center. One of the world's leading experts in cardiac electrophysiology.
- Developed Health eHeart. An eCohort designed to study CVD prevention and validate mobile health applications in disease outcomes, over 300,000 participants recruited



RIMA ARANOUT, MD

- Expert in genetics, clinical research, and programming.
- Develops computational methods for precision phenotyping in echocardiography



GEOFF TISON, MD, MPH

- Expert in clinical research, machine learning algorithms, AI and digital health technology
- Applies ML and deep-learning techniques to large-scale electronic health data from heterogeneous sources for prognosis and disease prevention



YEREM YEGHIAZARIANS, MD

- Interventional cardiologist
- Director of the Translational Cardiac Stem Cell Program



MICHELLE ALBERT, MD, MPH

- 2022 American Heart Association President
- Founding Director, UCSF Center for the Study of Adversity and Cardiovascular Disease
- 2024 American College of Cardiologists Distinguished Scientist Award



JAVID MOSELHI, MD

- Founding Chief of Cardio-Oncology and Immunology
- His lab is investigating the mechanisms of cardiovascular sequelae of novel targeted and immune-based cancer therapies



LIVIU KLEIN, MD, MS

- Director of Mechanical Circulatory Support Program and the Advanced Heart Failure Comprehensive Care Center
- Develops diagnostic sensors, therapeutic devices and AI tools for CVD patients



V. MOHAN REDDY, MD, MPH

- Professor of Surgery Chief, Division of Pediatric Cardiothoracic surgery, Co-director, UCSF Pediatric Heart Center

UCSF Cardiovascular Research Institute (CVRI)

- Approaching 65 years of innovative cardiovascular research
- \$254M CVRI building groundbreaking ceremony in 2008 at Mission Bay campus
- Multidisciplinary teams
- 100 core faculty including
- Research areas span basic, translational, and clinical



BRIAN BLACK, PhD

- CVRI Director, the Black lab has made seminal contributions to studying transcription control in cardiac disease and organ development
- Expert in transgenic models, biochemical, computational, and genomic approaches to investigate basic developmental mechanisms



JAN CHRISTOPH, PhD

- 2022 Recipient of the NIH Director's New Innovator Award
- Research Interests: Arrhythmias using bioengineering techniques, computer vision and AI



ABIGAIL BUCHWALTER, PhD

- Her lab focuses on the development of nuclear lamina, its contribution to nuclear organization, maintenance, and remodeling



XIAOKUN SHU, PhD

- Develops novel biological tools to track in vivo physiological responses using chemistry, structural biology and protein engineering



BALYN ZARO, PhD

- Uses chemical biology and proteomics for better drug selectivity across cell types
- Aims to develop novel therapeutic interventions



PETER OISHI, MD

- Pediatric pulmonary vascular disease expert. His lab studies the mechanisms of irregular blood flow in pediatric congenital heart defects that contribute to development of pulmonary vascular disease



MICHAEL CONTE, MD

- Co-director of the Heart and Vascular Center. Chief of Vascular and Endovascular Division
- Expert Vascular surgeon with basic and translational research lab focused on vascular disease



VANSANTH VEDANTHAM, MD, PhD

- Developing model of pacemaker cells to understand their electrophysiology and regenerative capacity

Office of Strategic Alliances

At the University of California, San Francisco

*Questions or interest in developing
a Cardiovascular partnering model
please contact Olivia.*



Olivia Roberson, PhD
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