

Xuejing Yu, MD, PhD

Cardiovascular Researcher | Researcher at University of Michigan Medical School

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Professional Summary

Physician-scientist with 10+ years of cardiovascular research and clinical practice. Expertise spans preclinical rodent models, cardiovascular metabolism, biomarker discovery, molecular biology, animal imaging and functional assessment, clinical trial data analysis, and cross-functional research leadership.

Experience

University of Michigan Medical School, Ann Arbor, MI

Researcher / Research Area Specialist Senior | May 2023 - Present

- Developed and validated rodent models for myocardial infarction, cardiac ischemia reperfusion injury, TAC, TAC debanding, and stroke.
- Supervised surgical facility operations and controlled substance processes at the Stanley and Judith Frankel Institute for Heart and Brain Health.

UT Southwestern Medical Center, Dallas, TX

Postdoctoral Associate | Apr 2021 - Apr 2023

- Performed cardiovascular mouse models including MI, ischemia-reperfusion injury, TAC, TAC debanding, pulmonary hypertension, and related surgical models.
- Applied echocardiography, ECG, laser speckle imaging, treadmill testing, blood pressure monitoring, cell isolation, histology, and molecular assays.

University of Pittsburgh Medical Center, Pittsburgh, PA

Postdoctoral Associate | Sep 2020 - Mar 2021

- Studied microbubbles and ultrasound in microthrombolysis using in vitro and in vivo models.
- Contributed to vascular research involving rats, rabbits, pigs, and drug-eluted stent evaluation.

University of Utah Health, Salt Lake City, UT

Postdoctoral Associate | Aug 2019 - Aug 2020

- Investigated mitochondrial pyruvate carrier function in right and left heart failure.
- Contributed to work on the pyruvate-lactate axis in cardiac hypertrophy and heart failure.

Massachusetts General Hospital / Harvard University, Boston, MA

Postdoctoral Researcher | Sep 2017 - Jul 2019

- Studied gelatin methacryloyl bioadhesive in a mouse model of myocardial infarction.
- Analyzed Watchman device outcomes using MAUDE data and contributed to Lyme carditis outcomes research.

Education

Peking University	PhD, Cardiology	2014 - 2017
Chongqing Medical University	Master's Degree, Cardiology	2011 - 2014
Sichuan University	MD, Clinical Medicine	2005 - 2010

Selected Skills

Preclinical rodent models; cardiovascular animal surgery; in vivo pharmacology; echocardiography and ECG; laser speckle imaging; primary cell isolation and culture; qRT-PCR; Western blotting; immunofluorescence; IHC; ISH; FACS; ELISA; RNA-seq interpretation; clinical trial data analysis; GraphPad Prism; SPSS; Stata; ImageJ.

Selected Publications

- The pyruvate-lactate axis modulates cardiac hypertrophy and heart failure. *Cell Metabolism*, 2021.
- Gelatin methacryloyl bioadhesive improves survival and reduces scar burden in a mouse model of myocardial infarction. *JAHA*, 2020.
- Long noncoding RNAs and novel inflammatory genes determined by RNA sequencing in human lymphocytes are up-regulated in permanent atrial fibrillation. *AJTR*, 2017.
- Plasma Long Noncoding RNA UCA1 Predicts Poor Prognosis in Chronic Heart Failure Patients. *Medical Science Monitor*, 2017.