Resource Summary Report

Generated by SPARC SAWG on Aug 15, 2026

University of Cincinnati Research and Training in Cardiovascular Biology

RRID:SCR_003860
Type: Tool

Proper Citation

University of Cincinnati Research and Training in Cardiovascular Biology (RRID:SCR_003860)

Resource Information

URL: http://www.med.uc.edu/cardio_bio/

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Description: Our 24 faculty members approach the Research and Training in Cardiovascular Biology program from different subspecialties that include genetics, metabolism, development, cellular biology, systems biology, structural biology, biophysics, pharmacology, molecular biology, bioinformatics and biochemistry. While these subspecialties are clearly diverse, our faculty collaboratively leverages these areas toward the common goal of understanding cardiovascular disease from the gene all the way up to integrated organism function (systems biology). This diverse array of subspecialties provides a truly unique training environment that few centers can match. Another critical aspect of our training program is our steadfast commitment to a superior and nurturing training environment for our predoctoral trainees, postdoctoral trainees and clinician-scientists. Our training faculty are uniformly committed to monitoring our personnel for success in every way possible, to not only ensure their future placement in the academic ranks but to also build a stronger cardiovascular community around the country. The current National Institutes of Health-sponsored Research and Training in Cardiovascular Biology was instituted in 1978 by Arnold Schwartz, MD, PhD. This program has trained more than 120 scientists, who have pursued independent research careers and are holding prominent scientific positions worldwide. Our trainees have been distinguished as chairs of basic science departments, directors of centers or pharmaceutical companies, clinical directors and tenured faculty members in academic research. The overall emphasis continues to focus on integrative training and well-rounded knowledge of the fundamentals in biochemical, molecular, physiological and pharmacological underpinnings of cardiovascular disease. Dr. Schwartz has been a constant guiding force since the program was established. The University of Cincinnati, with Cincinnati Children's, has also developed a reputation as a leading center for the generation and analysis of genetically

modified mouse models for interrogation of gene-disease relationships in the heart. This theme has been expanded to incorporate molecular genomics, proteomics and bioinformatics, as we continue to be among the leaders in the nation in molecular pathway analysis associated with single gene manipulations in the hearts of mice. Most faculty and trainees are using these approaches, but they are also well-versed in many other aspects of cardiovascular science, including excellence in basic physiology, pharmacology, biochemistry, structural biology and molecular biology. Thus, we are a rare conglomeration of faculty in which all aspects of cardiovascular biology are practiced, starting with cutting-edge molecular and genetic approaches, spanning more traditional cellular and whole animal approaches to build an integrated network of functional and disease-relevant data and extending to translational research incorporating cell therapy.

Abbreviations: UC Research and Training in Cardiovascular Biology

Synonyms: University of Cincinnati Research Training in Cardiovascular Biology

Resource Type: medical school program resource, degree granting program, portal, postdoctoral program resource, data or information resource, graduate program resource, training resource, organization portal

Keywords: cardiovascular disease, heart, mouse model, cardiovascular system

Funding: NIH

Resource Name: University of Cincinnati Research and Training in Cardiovascular Biology

Resource ID: SCR_003860

Alternate IDs: nif-0000-02100

Record Creation Time: 20220129T080221+0000

Record Last Update: 20260815T042454+0000

Ratings and Alerts

No rating or validation information has been found for University of Cincinnati Research and Training in Cardiovascular Biology.

No alerts have been found for University of Cincinnati Research and Training in Cardiovascular Biology.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.