

Dalton Cardiovascular Research Center

The Dalton Cardiovascular Research Center (DCRC) supports the objectives of the University of Missouri in its mission of teaching, research and service. Yet it is unique in its commitment to interdisciplinary collaborative research and teaching among various colleges, schools and departments across the Columbia campus. Under the auspices of DCRC, scientists from the fields of biochemistry, biological engineering, biological sciences, biomedical sciences, electrical engineering, medicine, pharmacology, physiology, physics, and veterinary medicine and surgery all come together and apply their particular expertise to research problems.

Our commitment to collaboration is grounded in the belief that interactions among scientists of diverse backgrounds will lead to multidisciplinary research producing meaningful, far-reaching results. Research programs at DCRC include investigations into cardiac functions, cystic fibrosis, exercise, kidney failure, membrane transport, muscular dystrophy, neurohumoral control of protein-protein interactions, and tumor angiogenesis. Because the mission of DCRC is to promote interaction and collaboration, no single group completely defines the research activity of its members.

The center is committed to excellence in cardiovascular research and in the education of students and fellows. Our investigators provide service to the University, the State of Missouri, and the nation through memberships on committees, peer review panels and editorial boards of scientific journals.

The Dalton Cardiovascular Research Center is accredited by both the American Association for the Advancement of Laboratory Animal Care and the American Association of Laboratory Animal Sciences.



University of Missouri

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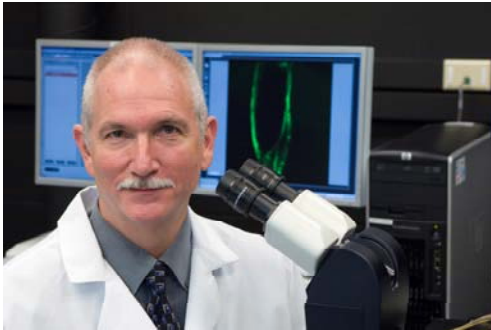
University of Missouri



Committed to Interdisciplinary
Collaboration in Research and Teaching



Dalton Cardiovascular Research Center



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Our mission is to advance knowledge of the causes, diagnostics, therapies and cures for cardiovascular disease through research and teaching that merges disciplines and technologies.

Cardiovascular disease (CVD) is the number one leading cause of morbidity and premature death in this country. Missouri is ranked 43rd for highest CVD associated death rate.

CVD contributed to one third of all global deaths.

CVD has no geographic, gender or socioeconomic boundaries.

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Research Center**



Past and Present

1962 - Research Park created to encourage cooperative interactions between the University, Government and Industry.

1963 - 65 - The Dalton Research Center was created on recommendations from Governor John M. Dalton's Science Advisory Committee and built with funds provided by the Missouri General Assembly. As stated by the Governor "If Missouri is to attract scientific industry in this highly specialized nuclear age, we must provide a pool of the necessary brain power." To this end, he recommended establishment of the John M. Dalton Space Sciences Research Center.

1973 - Dedication of the DRC. The charge to the Research Center was "to select and define specific areas for research on important needs not now being adequately served, and after selection, concentrate effort to assure obtaining significant results."

1994 - Research Center renamed "Dalton Cardiovascular Research Center" and efforts focused on building interdisciplinary and translational programs in Cardiovascular Research.

2005 - present - Special attention paid to developing national and international leadership in heart and blood vessel diseases.

Future

Our fundamental goals are to focus on acquisition of new knowledge (research), application of new knowledge (diagnosis and treatment) and stimulate commerce (incubation of technologies for transfer to the market place).

Our strategy is to merge disciplines and technologies.

We need continued *support* to achieve our goals.

- Additional Education Facilities
- Additional Funds to Support Acquisition of Cutting Edge Technologies
- Modernization of Research Space

Dalton investigators study high blood pressure and its underlying causes.
Microvascular and vascular biology in health and disease »

Dalton investigators examine how sedentary lifestyles affect longevity.
Effects of exercise on cardiovascular function »

Dalton investigators search for effective ways to deliver treatment for diseases.
Biomedical engineering »

Dalton investigators research how hormones affect the development of breast cancer.
Hormonal regulation of tumor angiogenesis »

Dalton investigators research how the central nervous system controls the heart and blood vessels.
Neurohumoral control of circulation »

Dalton investigators search for the gene mutations that cause Cystic Fibrosis.
Membrane biology and cystic fibrosis »

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