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In normal cardiovascular physiology,
ROS production is coupled to circadian
clocks and metabolic networks, and ROS
species (H_2O_2) function as signaling
molecules essential for normal cellular

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homeostasis. 67,68 In contrast, ROS production at too high a level, for too long, or at an inappropriate location, leads to impaired cellular function and cardiovascular pathology. 74

Intracellular hyperglycemia causes excessive ROS production by increasing electron leak from the mitochondrial ...

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teaching an advanced cardiovascular pathology course for PhD trainees in the biomedical sciences, and trainees in cardiology, pathology, public health, and veterinary medicine.

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Cellular and Molecular Pathobiology of Cardiovascular Disease

Diseases of the cardiovascular system
are the leading cause of death and
morbidity in the US. CMM faculty with
interests in cardiovascular biology use a
wide variety of interdisciplinary

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trainees in cardiology, pathology, public health, and veterinary medicine.

Cellular and Molecular Pathobiology of Cardiovascular Disease

Molecular and Cellular Basis of Cardiovascular Disease. Shaun Coughlin, M.D, Ph.D. The heart of the training program is formulation and execution of

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a substantial research project under the guidance of a primary mentor (links to Program Faculty and program faculty research descriptions).

CVRI T32 Molecular and Cellular Basis of Cardiovascular ...

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Molecular Basis of Cardiovascular

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Disease | ScienceDirect

Cardiovascular disease (CVD) is one of the major causes of morbidity and mortality, all around the world. Vitamin E is an important nutrient influencing key cellular and molecular mechanisms as well as gene expression regulation centrally involved in the prevention of CVD.

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The nervous system and cardiovascular
system develop in concert and are
functionally interconnected in both
health and disease. This white paper
focuses on the cellular and molecular

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mechanisms that underlie neural-cardiac interactions during development, during normal physiological function in the mature system, and during pathological remodelling in cardiovascular disease.

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made up of over thirty faculty members from basic science and clinical departments with the goal of training students for careers as independent investigators studying the molecular and cellular aspects of cardiovascular physiology and disease. One of the medical triumphs of the latter half of the twentieth century is the remarkable

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advancement that has been made in the diagnosis and treatment of heart disease.

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Hyperuricemia promotes the occurrence and development of cardiovascular diseases by regulating molecular

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signals, such as inflammatory response, oxidative stress, insulin resistance/diabetes, endoplasmic reticulum stress, and endothelial dysfunction. Despite extensive research, the underlying molecular mechanisms are still unclear.

Frontiers | Uric Acid and

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Cardiovascular Disease: An ...

While genes responsible for cardiac maldevelopment (a condition characterised by abnormal heart morphogenesis), like SNIP, A2BP1 and KIAA1437, were upregulated in the TOF group, genes involved in stress response and cell proliferation were more expressed in the RVH condition. 17

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Furthermore, a molecular transition from RV to LV characteristics occurs during RV adaptation to pressure overload, as genes dysregulated in RVH have an expression pattern similar to the one in normal LV tissue.

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