

Special Issue

Role of Mitochondrial Dysfunction in the Pathogenesis of Cardiovascular Diseases

Message from the Guest Editors

Cardiovascular diseases (CVDs) are common multifactorial pathological conditions. Mitochondria are essential organelles in the life of cells. Mitochondrial dysfunction, an abnormal condition that alters cell integrity and function, contributes to several diseases. The contribution of this molecular mechanism to the pathogenesis of CVDs has been understood more recently and is currently being explored in deeper detail in different experimental set ups. The full comprehension of the contribution of mitochondrial dysfunction to CVD pathogenesis will allow the identification of novel targets that are able to improve the prevention, diagnosis, and treatment of CVDs. In fact, novel therapeutic strategies, counteracting mitochondrial dysfunction, have been already designed and are currently being tested, with promising results. This Special Issue will collect original papers and review articles focused on the role of mitochondrial dysfunction in different CVDs, including hypertension and target organ damage, cardiomyopathies, ischemic heart disease, stroke, heart failure, and cardiorenal syndrome.

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