

Special Issue

Molecular Genetics in Sudden Cardiac Death

Message from the Guest Editor

A high proportion of sudden cardiac death (SCD) in individuals under 50 years of age is caused by hereditary cardiovascular diseases. These include diseases of the heart muscle (cardiomyopathy), electrical diseases (arrhythmogenic syndromes), and hereditary diseases of the aorta and large vessels, where patients are at risk of sudden cardiac arrest or acute dissection of large vessels. Familial hyperlipidaemia (FH) may represent an important cause of SCD in males < 40 years of age or females < 50 years of age. Involved professionals who participate in this process include forensic doctors or pathologists, acute care doctors, clinical geneticists, molecular geneticists, cardiologists, psychologists, and general practitioners. Current molecular genetic methods such as next-generation sequencing may yield P/LP DNA variants in about 20% of post-mortem analysis. This yield may increase in familiar cases up to 50% according to the recent literature. Furthermore, patients with unexplained heart failure or ventricular arrhythmias should be offered a family cascade screening in the primary prevention of SCD in relatives.

Guest Editor

Dr. Alice Krebsova

Institutu Klinické a Experimentální Medicíny, Prague, Czech Republic

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closed (10 September 2024)

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
genes@mdpi.com

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Genes is central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fast-moving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised. Why not consider *Genes* for your next genetics paper?

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan
Department of Pathology, The University of Alabama at Birmingham,
1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

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