



cells



an Open Access Journal by MDPI

Electrical Remodeling in Cardiac Disease

Guest Editors:

Prof. Ursula Ravens

University Clinics Freiburg
Institute of Experimental
Cardiovascular Medicine,
University Heart Centre Freiburg,
Bad Krozingen Elsaesser Strasse
2Q, 79110 Freiburg im Breisgau,
Germany

Dr. Rémi Peyronnet

University Clinics Freiburg
Institute of Experimental
Cardiovascular Medicine,
University Heart Centre Freiburg,
Bad Krozingen Elsaesser Strasse
2Q, 79110 Freiburg im Breisgau,
Germany

Deadline for manuscript
submissions:

closed (15 September 2021)

Message from the Guest Editors

Heart disease remains the leading cause of death worldwide. The heart has an amazing capacity to adapt to functional impairment through structural, mechanical, and electrical remodeling processes that, within certain limits, compensate for compromised function but may eventually become deleterious. The mechanisms by which electrical remodeling may lead to malignant arrhythmia are poorly understood. In order to provide better risk prediction for arrhythmic events in cardiac disease, we need to advance our understanding of electrical remodeling at the molecular, cellular, and whole-organ level in the context of different cardiac pathologies. This can be achieved by analyzing multiple sites of remodeling, including voltage-, ligand- and mechano-gated channels, cellular Ca²⁺ homeostasis, cell–cell interactions, and electrical implications of fibrosis. The purpose of this Special Issue of *Cells* is to assemble a collection of articles addressing general mechanisms of electrical remodeling in the context of cardiac disease. Hope to offer inspiration for the development of better protection against lethal arrhythmias.



mdpi.com/si/73003

Special Issue



cells



an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Alexander E. Kalyuzhny

Neuroscience, UMN Twin Cities,
6-145 Jackson Hall, 321 Church St
SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch

Biotech Research & Innovation
Centre, The University of
Copenhagen, Copenhagen,
Denmark

Message from the Editorial Board

Cells has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [CAPus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Cell Biology*) / CiteScore - Q1 (*General Biochemistry, Genetics and Molecular Biology*)

Contact Us

Cells Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/cells
cells@mdpi.com
[X@Cells_MDPI](https://twitter.com/Cells_MDPI)