Special Issue

Electrical Remodeling in Cardiac Disease

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.

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

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

mdpi.com/journal/cells

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About the Journal

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.

Editors-in-Chief

Dr. Alexander E. Kalyuzhny
Dental Basic Sciences, University of Minnesota, 308 Harvard St. SE, Minneapolis, MN 55455, USA

Prof. Dr. Cord Brakebusch
Biotech Research & Innovation Centre, The University of Copenhagen, Copenhagen, Denmark

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).