

Special Issue

Cardiovascular Control Mechanisms: From Physiology to the Bedside

Message from the Guest Editors

Systems that control cardiovascular activity are involved in both the onset and the progression of cardiovascular diseases.

The rapid development of neuromodulatory techniques, such as vagus nerve or spinal cord stimulation, renal denervation, and baroreflex activation, may allow to directly intervene on neural circuits and restore the functionality of the cardiovascular regulation, especially in patients refractory to conventional therapies. These approaches represent an emerging frontier towards increasingly personalized interventions aimed at restoring the mechanisms of cardiovascular regulation.

Therefore, a better knowledge of the interaction of the different systems and their molecular background is mandatory to improve the diagnostic power and therapeutic tools in this area, which still presents a high burden of disability and mortality.

On these premises, we are launching the present Special Issue, aimed at collecting contributions that may improve our knowledge of the mechanisms of cardiovascular regulation in physiological studies or clinical settings. Manuscripts reviewing the state of the art of these topics are also welcome.

Guest Editors

Dr. Alberto Radaelli

Division of Cardiac Rehabilitation, Fondazione IRCCS San Gerardo dei Tintori, Monza, Italy

Dr. Paolo Castiglioni

Department of Biotechnology and Life Science (DEIB), Università degli Studi dell'Insubria, 21100 Varese, Italy

Deadline for manuscript submissions

31 December 2026



Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



mdpi.com/si/273369

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

mdpi.com/journal/

life





Life

an Open Access Journal
by MDPI

Impact Factor 3.4
CiteScore 6.0
Indexed in PubMed



[mdpi.com/journal/
life](https://mdpi.com/journal/life)



About the Journal

Message from the Editor-in-Chief

Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

Editor-in-Chief

Prof. Dr. Lluís Ribas de Pouplana

Institute for Research in Biomedicine (IRB Barcelona), The Barcelona
Institute of Science and Technology, 08028 Barcelona, Spain

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, PMC, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (Paleontology)