

Special Issue

Novel Optics-Based Approaches for Cardiovascular Researches

Message from the Guest Editors

Cardiovascular investigation has been tremendously transformed by optics-based imaging methodologies. Recent innovations in optical methods allow imaging multiple fast phenomena while controlling, with an adequate spatiotemporal resolution, the biological determinants involved. The increasing need to investigate large biological specimens has also driven the development of novel optical techniques in combination with chemical approaches capable of volumetric imaging with no compromises in terms of field-of-view and spatial resolution. In this Special Issue, we welcome researchers to submit original research, review, perspective, and opinion articles on topics ranging from super-resolution techniques to coarse-resolution whole heart mapping, from imaging cardiac activity and correlating this activity to underlying structure to manipulating cardiac activity with optogenetics.

Guest Editors

Dr. Leonardo Sacconi

Dr. Gil Bub

Dr. Caroline Muellenbroich

Deadline for manuscript submissions

closed (15 July 2022)



Methods and Protocols

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.9
Indexed in PubMed



mdpi.com/si/91256

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

mdpi.com/journal/

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





Methods and Protocols

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.9
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Methods and Protocols (ISSN 2409-9279) is an open access journal devoted to the publication of new procedural approaches and cutting-edge methodological developments. The ultimate objective of this new forum of scientific communication is to provide researchers with an indispensable tool, enabling better use of the latest scientific technologies. With a broad and totally interdisciplinary focus, *Methods and Protocols* was established with the objective of facilitating cross-fertilization and cross-talk in the scientific arena. Methods and protocols in Life Sciences, Chemistry, Biomedical Sciences, Engineering, and in their intersections such as Biotechnology and Nanotechnology will constitute the core of the journal. However, we anticipate that other fundamental disciplines such as Physics or Geology will be rapidly incorporated.

Editor-in-Chief

Prof. Dr. Fernando Albericio

1. School of Chemistry and Physics, University of KwaZulu-Natal,
Durban, South Africa

2. Department of Organic Chemistry, University of Barcelona,
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, ESCI (Web of Science), PubMed, PMC, CAPus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q2 (Biochemistry, Genetics and Molecular Biology (miscellaneous))