

Special Issue

In View of 3R: Experimental Disease Models for Studying Cardiorenovascular Pathology

Message from the Guest Editors

This Special Issue aims to shed more light on current developments of suitable in vivo, ex vivo, and in vitro models studying cardiorenovascular pathology, and improved testing conditions and quality standards for a better reproducibility of studies. In the long term, this might not only help to reduce animal numbers and pain according to the 3R principle (Replacement, Reduction, Refinement) of Russel and Burch, but also to identify the most promising targets to reduce the cardiovascular morbidity and mortality of patients. In this Special Issue, the submission of original scientific reports, review articles, and commentaries in a broad topic of experimental models with the 3R thought of Russel and Burch is welcome. The issue seeks to cover the great effort and recent progress in experimental 3R models and help to find standardized settings to test pharmaceutical drugs in cardiorenovascular research.

Guest Editors

Dr. Mirjam Schuchardt
Dr. Markus Tölle
Prof. Dr. Gilbert Schönfelder

Deadline for manuscript submissions

closed (31 December 2021)



Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



mdpi.com/si/54557

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

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





Biology

an Open Access Journal
by MDPI

Impact Factor 3.5
CiteScore 7.4
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

Editors-in-Chief

Prof. Dr. Jukka Finne

Research Programme in Molecular and Integrative Biosciences, Faculty of Biological and Environmental Sciences, University of Helsinki, P.O. Box 56, FI-00014 Helsinki, Finland

Prof. Dr. Andrés Moya

Integrative Systems Biology Institute, University of Valencia and CSIC, 46980 Valencia, Spain

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biology) / CiteScore - Q1 (General Agricultural and Biological Sciences)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the second half of 2025).