



biology



an Open Access Journal by MDPI

Mitochondrial Heterogeneity

Guest Editors:

Dr. Amy Vincent

Wellcome Centre for
Mitochondrial Research,
Translational and Clinical
Research Institute, Faculty of
Medical Sciences, Newcastle
University, 4th Floor Cookson
Building, Framlington Place,
NE2 4HH, UK

Prof. Robert Lightowlers

Wellcome Centre for
Mitochondrial Research,
Translational and Clinical
Research Institute, Faculty of
Medical Sciences, Newcastle
University, 4th Floor Cookson
Building, Framlington Place,
NE2 4HH, UK

Message from the Guest Editors

Dear Colleagues,

As technological advances provided us unprecedented insight into biological processes at a sub-cellular and suborganeller level, there is a growing appreciation for the heterogeneity of the mitochondrial reticulum within individual cells. Within cells mitochondria in different subcellular locations are now known to be functionally and structurally specialised for their localised cellular roles. Contact with other organelles such as the endoplasmic reticulum marks the site of mitochondrial DNA replication and calcium signalling is heterogeneous throughout the cell. Furthermore, this heterogeneity occurs at the organelle level with adjacent cristae showing stark functional variation. This special issue invites original research papers and reviews that cover all aspects of mitochondrial heterogeneity.

Deadline for manuscript
submissions:

closed (31 July 2021)



mdpi.com/si/40361

Special Issue



an Open Access Journal by MDPI

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

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.

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, PubAg, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Biology*) / CiteScore - Q1 (*General Agricultural and Biological Sciences*)

Contact Us

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

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

mdpi.com/journal/biology
biology@mdpi.com
X@Biology_MDPI