

Special Issue

Mitochondrial Dysfunction and Aging

Message from the Guest Editor

Biology is calling for submissions to our Special Issue on “Mitochondrial Dysfunction and Aging”. The mitochondria not only work in energy production but also play important roles in reactive oxygen species (ROS and RNS) production, calcium handling, metabolism, cell signaling, etc. In this Special Issue, we welcome submissions of original research, reviews, and mini-reviews. Subtopics of interests include, but are not limited to, the following:

- 1) Mitochondrial DNA damage, reactive species (ROS and RNS) production, dynamics, and metabolism disorders in aging;
- 2) Mitochondrial dysfunction in various diseases in aging, including cardiovascular diseases, neurodegenerative diseases, Alzheimer’s diseases and related dementia, etc.;
- 3) Mitochondria and immune dysfunction in aging;
- 4) Mitochondrial dysfunction in stem cell aging;
- 5) Mitochondria and skeletal muscle cell dysfunction in aging;
- 6) Epigenetic regulation and potential targets in mitochondria in aging;
- 7) Other mitochondrial dysfunction in aging research.

Guest Editor

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Deadline for manuscript submissions

closed (30 November 2025)



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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.

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