

## Special Issue

# Cellular Processes of Energy Transduction in Physiological and Pathological Conditions

### Message from the Guest Editors

In physiological conditions, cell energy homeostasis is tightly controlled by the contribution of different metabolic tissues. Energy homeostasis is maintained in response to energy challenges such as diet, exercise or body weight changes. The decline in cellular energy processes is observed in physiological aging and in diseases. From this point of view, a crucial role is played by mitochondria that provide ATP for the cells but are also involved in several metabolic pathways, apoptosis, and programmed cell death, as well as in the synthesis of key molecules related to inflammation and oxidative stress. This Special Issue of *Cells* is dedicated to illustrating all the cellular and molecular events controlling energy homeostasis in different tissues and organs in response to energy challenges such as diet, exercise, body weight changes and aging process, but also underlying the decline in energy processes associated to non-communicable diseases. We are looking forward to your contributions to this Special Issue.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 July 2021)



## Cells

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## About the Journal

### Message from the Editorial Board

*Cells* has become a solid international scientific journal that is now indexed on SCIE and in other databases. We have successfully introduced a special issues format so that these issues serve as mini-forums in specific areas of cell science. *Cells* encourages researchers to suggest new special issues, serve as special issues editors, and volunteer to be reviewers. Our main focus will remain on cell anatomy and physiology, the structure and function of organelles, cell adhesion and motility, and the regulation of intracellular signaling, growth, differentiation, and aging. We are open to both original research papers and reviews.

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### Editors-in-Chief

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).