

Special Issue

The Role of NAD⁺ Metabolism in Cellular Processes during Aging and Age-Associated Diseases

Message from the Guest Editors

Nicotinamide adenine dinucleotide (NAD⁺) is an important coenzyme for hundreds of different oxidoreductases as well as an essential cofactor for NAD⁺-dependent enzymes, such as sirtuins, poly(ADP-ribose) polymerases (PARPs) and NAD⁺ glycohydrolases (CD38, CD157 and SARM1). These enzymes play a fundamental role in many pivotal cellular processes including DNA repair, regulation of gene expression, redox balance and cell metabolism and signaling. The decline in NAD⁺ levels has been associated with several hallmarks of aging and age-related diseases. In this regard, boosting NAD⁺ levels by enhancing its biosynthesis or inhibiting its degradation has emerged as a promising therapeutic approach to counteract the aging process and to treat age-associated diseases. This Special Issue aims at providing novel insights into the role of NAD⁺ metabolism in the context of aging and age-associated diseases. We welcome original research and review articles. For further reading, please, visit the [Special Issue website](#).

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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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