Special Issue

Uncovering the Effects of Synthetic Substances on Cellular Processes: From Food Additives and Drugs to Nanoparticles and Microplastics

Message from the Guest Editors

The production and use of synthetic materials have increased dramatically in recent years, raising concerns about their impact on both human health and the environment. Most of these substances do not degrade naturally, but instead accumulate in living organisms due to their chemical stability and resistance to biodegradation. Furthermore, the accumulation of synthetic materials in the environment can have harmful effects on ecosystems, including food chains disruption and wildlife violation. While many substances ranging from food additives and medications to microplastics and nanoparticles have been extensively tested for safety, there is still much unknown about their short-term and long-term effects, particularly about their interaction with living organisms. In this special issue, we aim to explore the effects of different synthetic substances on various physiological and toxicological parameters, oxidative stress markers, signaling molecules, and cellular signaling pathways, as well as cellular processes, including cell proliferation, differentiation, and death.

For further reading, please, visit the Special Issue website.

Guest Editors

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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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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).