

## Special Issue

# Cell Biology: Latest Advances and Prospects

### Message from the Guest Editors

The medicine of the future is personalized, artificially intelligent, safer, and more efficient. Stem cells are among the important players in the development of personalized regenerative medicine. Stem cells (embryonic stem cells, induced pluripotent stem cells, and adult stem cells) are isolated from various tissues and organs using diverse protocols that affect their abilities to self-renew and differentiate. An in-depth understanding of the practical aspects of stem cell isolation, in vitro maintenance, and characterization is needed for the development of effective stem-cell-based therapies.

Our goal is to bring together research and review articles that demonstrate the recent progress in fundamental and applied studies on stem cells. Topics of interest include, but are not limited to, the following:

- Opportunities and challenges in using stem cells in vivo and in vitro
- Techniques for the isolation and characterization of human and animal stem cells
- Three-dimensional stem cell culture systems
- Stem cells in disease modeling
- Applications of stem cells and/or their exosomes in medicine (dentistry, orthopedics, cardiology, neurology, wound healing, endocrinology, etc.)

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### Guest Editors

Dr. Mihail S. Chervenkov

Dr. Darin Zerti

Dr. Elena N. Stoyanova

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### Deadline for manuscript submissions

28 February 2026



## Applied Sciences

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## About the Journal

### Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
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