

Special Issue

Cellular Reprogramming and Differentiation

Message from the Guest Editors

Over the last several decades, research has focused on the unique ability of stem cells to self-renew and differentiate towards a variety of cell types. With many basic science and preclinical studies demonstrating the potential capabilities of stem cell-based therapeutics in the clinic, this special edition is interested in bringing together the topics of cellular reprogramming and differentiation to lead to promising outcomes in advancing stem cell usage in basic science, translational medicine, and regenerative medicine. This special issue welcomes original manuscripts and reviews from collective complementary expertise, spanning the following areas:

- Novel approaches of microfluidic, organoid, and 3D cell culture applications;
- Molecular and epigenetic mechanisms in stem cell (de)differentiation, transdifferentiation, and reprogramming;
- Toxicology, drug discovery, and disease modeling;
- Generation of clinical grade iPSC lines ;
- Analytical development, characterization of the new cell lines and iPSC derived cell products;
- Genetic manipulation in iPSC and iPSC products;
- Stem cells and veterinary regenerative medicine.

Guest Editors

Dr. Maryam Moshref

Dr. Charles A. Easley IV

Dr. Krista Symosko

Deadline for manuscript submissions

closed (20 May 2024)



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About the Journal

Message from the Editor-in-Chief

The *Journal of Developmental Biology* (JDB) publishes original research papers and timely reviews. Our primary aim is to provide a platform for the publication of studies on the development of multicellular organisms efficiently and professionally; papers undergo a fast, yet thorough, peer-review process. JDB is an open access journal and accepted contributions are published immediately online, providing unlimited access to the scientific community and general public. We look forward to receiving your contribution to our journal and to working with fellow researchers.

Editor-in-Chief

Prof. Dr. Simon J. Conway

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