Special Issue

Influence of Chemicals on the Cytoskeleton: Modulation of Stem Cell Dynamics

Message from the Guest Editors

Recent evidence highlights that the cytoskeletal dynamics play a pivotal role in mechano-sensing, mechano-transduction, and, consequently, in directing cell fate.

Different agents can interfere with cytoskeletal organization: they either disrupt or rigidify microfilaments and microtubules, respectively.

Human mesenchymal stem cells (MSCs) exhibit self-renewal, multi-lineage differentiation, and trophic signaling that make them highly attractive candidates for cell-therapy approaches. Several chemicals showing effects on the cytoskeleton interfere with MSC proliferation and ability to proceed along different cell lineages.

Potential topics include but are not limited to the following:

- * Use of chemicals/drugs able to influence the structure and function of the cytoskeleton in stem cells;
- * Use of natural molecules able to influence the structure and function of the cytoskeleton in stem cells;
- * Effects of the reorganization of the cytoskeleton on stem cell dynamics: modulation of cell proliferation, senescence, and/or ability to differentiate.

Guest Editors

Dr. Federica Facchin

Dr. Silvia Canaider

Prof. Dr. Carlo Ventura

Deadline for manuscript submissions

closed (20 October 2022)



Pharmaceuticals

an Open Access Journal by MDPI

Impact Factor 4.8
CiteScore 7.7
Indexed in PubMed



mdpi.com/si/65408

Pharmaceuticals
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
pharmaceuticals@mdpi.com

mdpi.com/journal/pharmaceuticals





Pharmaceuticals

an Open Access Journal by MDPI

Impact Factor 4.8 CiteScore 7.7 Indexed in PubMed



About the Journal

Message from the Editor-in-Chief

Because of your expertise in the field of drug sciences, I kindly invite you to consider publishing your current work, in the form of a research article or a review, in the open access electronic journal *Pharmaceuticals*. *Pharmaceuticals* is characterized by an active editorial board and a dynamic editorial staff. Manuscripts are peer-reviewed and a final decision is provided to authors within 4–6 weeks after submission. Papers are published on the web immediately after acceptance. For details on the submission process or any other matter, please do not hesitate to contact us.

We hope to handle your contribution to *Pharmaceuticals* soon.

Editor-in-Chief

Prof. Dr. Amélia Pilar Rauter

Departamento de Química e Bioquímica (DQB) e Centro de Química Estrutural (CQE), Institute of Molecular Sciences, Faculdade de Cièncias, Universidade de Lisboa, Lisboa, Portugal

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Pharmacology and Pharmacy) / CiteScore - Q1 (Pharmaceutical Science)

