





an Open Access Journal by MDPI

# **Mesenchymal Stem Cells for Tissue Engineering and Modelling**

Guest Editors:

#### Dr. Pavel Makarevich

1. Faculty of Medicine, Lomonosov Moscow State University, 119192 Moscow, Russia

2. Institute for Regenerative Medicine, Medical Research and Education Centre, Lomonosov Moscow State University, 119192 Moscow, Russia

#### Dr. Ilya Zubarev

Laboratory of Cell Signaling Regulation, Moscow Institute of Physics and Technology, Dolgoprudny, Russia

Deadline for manuscript submissions:

closed (30 September 2022)

# Message from the Guest Editors

Dear Colleagues,

Advances in studies of mesenchymal stem/stromal cells (MSC) biology and application in regenerative medicine are tightly associated with their intrinsic properties involving participation in tissue physiological renewal and repair after damage. Furthermore, their ability to self-organize and pattern other cell types created an amazing opportunity for their application in tissue/organ engineering employing MSC ex vivo.

This Special Issue focuses on MSC use including, but not limited to the following topics:

- Tissue engineering and artificial organs/scaffolds (including decellularized constructs)
- Pre-clinical and clinical data on new MSC-based tissue engineering products
- Patterning and differentiation potency of MSC in tissue-engineered constructs
- Organoid assembly and self-organization of MSC to model tissues, organs or human disease
- Bioprocess and manufacturing advances in tissue engineering products using human/animal MSC

We cordially invite original papers, review articles, letters and opinions to this Issue from experts in cell biology, regenerative medicine, manufacture, developmental biology and bioengineered fields.



Specialsue









an Open Access Journal by MDPI

## **Editor-in-Chief**

## Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

# Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

#### **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, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Biomedical)

## **Contact Us**