Special Issue

Regenerative Medicine: From Biomaterials to Applications

Message from the Guest Editor

Recent advancement in regenerative medicine deserves strong attention due to the potential in revolutionising the conventional medical approaches. While self-immunity has been recognised as the key factor to recover various health functions at cellular levels, critically damaged or structurally altered cells have been long considered 'incurable' and in such cases, whereby removal or artificial interventions were the only viable options. Technology in regenerative medicine can, however, allow manipulation of gene expressions and conditioning of cellular environments via various methods. A couple of recent examples include the discovery of induced pluripotent stem (iPS) cells and the application of messenger ribonucleic acid (RNA), famous for COVID-19 vaccination. These new trends are the real hope for many severe health conditions, including spinal cord injury, cancer, cartilage regeneration, and, ultimately, 'ageing' itself. It is, therefore, crucial to collect and share the latest information about regeneration medicine to advance this promised field of research forward.

Guest Editor

Dr. Hanatsu Nagano
Institute for Health and Sport (IHES), Victoria University, Melbourne, VIC 3011, Australia

Deadline for manuscript submissions

closed (31 May 2024)

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/si/107908

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

mdpi.com/journal/applsci

Applied Sciences

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 5.5

mdpi.com/journal/applsci

MDPI

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.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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), Ei Compendex, Inspec, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)