

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

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Editor-in-Chief

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

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