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Regenerative Medicine: From Biomaterials to Applications

Collection Editor:

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Message from the Collection 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.



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Editor-in-Chief

Message from the Editor-in-Chief

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

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