Special Issue

The Promise of Induced Pluripotent Stem Cells in the Biomedical Research 2.0

Message from the Guest Editor

More than a decade ago, the Japanese scientist Shinya Yamanaka showed that it is possible to convert adult cells into a state similar to that of pluripotent stem cell. These cells, named induced pluripotent stem cells (iPSCs), are similar to embryonic stem cells (ES) and are considered a very promising tool in the field of regenerative medicine. iPSCs, like ES cells, are self-renewing and pluripotent. Furthermore, because iPSCs are obtained from adult cells in vitro, they do not raise the ethical and legal problems associated with the use of ES cells. Because they are generated from the patient, the likelihood of rejection in autologous therapies is believed to be much lower. This Special Issue will address the applications of iPSCs, putting a special emphasis on the investigation of the physiopathogenic mechanisms behind diseases and the search for new therapies against them. Therefore, contributions by experts in the field, in the form of original articles and reviews, are most welcome.

- induced pluripotent stem cells
- drug discovery
- cell modelling
- cell therapy
- personalized medicine
- tissue engineering

Guest Editor

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Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to Biomedicines, be it original research, review articles, or developing Special Issues of current key topics.

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