

Special Issue

Stem Cell for Tissue Engineering

Message from the Guest Editors

Research on the application of stem cells in clinical medicine is now a reality in many countries and the results of therapies based on the use of stem cells are bringing incredible results. In particular, the use of stem cells in tissue engineering represents new innovations in biomedical research, including regenerative medicine, organ transplants, and the treatment of genetic diseases. This Special Issue aims to show all the possible applications of these techniques in the different fields of medicine and reports the progress and practical clinical applications of the use of stem cells in clinical practice. Particular attention will be paid to the search for the regeneration of organs for the purpose of transplantation, and the creation of tissues that can be used in the repair and regeneration of irreparably damaged tissues, without regeneration. Research on the rehabilitation of biological scaffolds or decellularized tissues for the creation of organs, such as the heart, which can be considered a valid alternative to artificial hearts or particularly complex structures to replace such as the trachea, heart valves, or osseocartilaginous tissues, is of particular interest.

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Editor-in-Chief

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