

Special Issue

Regenerative Medicine: Biomaterials and Stem Cell Research

Message from the Guest Editor

Regenerative medicine is an emerging field that combines biomaterials and stem cells to repair, replace, or regenerate damaged tissues and organs.

Biomaterials provide structural and biochemical support that facilitates tissue regeneration. They are designed to be biocompatible and, in many cases, biodegradable, allowing them to integrate safely into the body. Stem cells, with their unique ability to differentiate into various types of specialized cells, are essential in this field.

These cells can be obtained from various sources, such as embryonic, adult, and induced pluripotent stem cells (iPSCs). Research focuses on optimizing the conditions for the growth and differentiation of these cells in combination with suitable biomaterials. This Special Issue wants to focus on both basic and clinical studies that incorporate biomolecular experiments to have a more complete comprehension on how the integration of biomaterials and stem cells in regenerative medicine is revolutionizing the ability to treat degenerative diseases, severe injuries, and the scarcity of organs for transplants, offering new hope for improving patients' quality of life.

Guest Editor

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