

Special Issue

Stem Cell-Derived Cells and Bioengineering: Molecular Bases in Regeneration and Disease Research

Message from the Guest Editor

Stem cell-derived cells are at the forefront of regenerative medicine and disease modeling, offering unprecedented insights into human development, tissue repair, and pathological mechanisms. This Special Issue, "Stem Cell-Derived Cells and Bioengineering: Molecular Bases in Regeneration and Disease Research", will bring together advances in stem cell technologies and bioengineering to explore their synergy in health and disease contexts. Contributions will highlight novel methods for deriving specific cell types from stem cells, molecular pathways guiding cell fate decisions, and innovative bioengineering platforms such as organoids and organ-on-chip models for mimicking physiological and pathological conditions. By integrating stem cell biology into bioengineering, this Special Issue will provide a comprehensive overview of how these tools are reshaping biomedical research, drug discovery, and the development of personalized therapies.

Guest Editor

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Message from the Editor-in-Chief

Editor-in-Chief

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