

Special Issue

Stem Cell Immunoengineering

Message from the Guest Editor

Stem cell immunoengineering is transforming the landscape of immunotherapy by combining stem cell biology, genetic engineering, and bioengineering to generate next-generation immune cells with enhanced therapeutic potential.

Despite these advances, key challenges remain, such as improving the efficiency and safety of lineage-specific differentiation, overcoming the immunosuppressive tumor microenvironment, ensuring long-term engraftment and functional persistence, and translating preclinical discoveries into clinically viable therapies.

This collection invites original research and reviews that advance stem cell-based immune engineering, with particular interest in studies that bridge fundamental biological insights with translational and clinical innovation:

- Engineered pluripotent stem cell-derived immune cells.
- Novel genetic and epigenetic programming strategies.
- Biomaterials and delivery platform.
- Single-cell and system immunology approaches.
- Translational and clinical applications.

Guest Editor

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Editor-in-Chief

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