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Special Issue Reprint

Where Are We Now and Where Is Cell Therapy Headed?

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This collection, titled “Where Are We Now and Where Is Cell Therapy Headed?,” brings together original research and reviews that reflect the evolving landscape in cell therapy. It explores how traditional cell-based interventions are being redefined through advances in bioengineering, genome editing, and next-generation immunotherapies, including CAR-T and CAR-NK cells. The collection also examines the rise of cell-free approaches, such as the use of extracellular vesicles and secretomes.

Key topics include the pivotal transition from autologous to allogeneic “off-the-shelf” products, strategies to improve standardization and scalability, and the integration of cell therapies with immunomodulatory agents. The contributions highlight cutting-edge applications in oncology, musculoskeletal repair, burn treatment, and retinal degeneration. This Reprint emphasizes the complementary roles of cellular and acellular therapies and the emerging view of cells as modular delivery platforms rather than simply structural components.

By addressing both scientific advances and translational hurdles, this collection provides a timely and essential overview of where the field stands today and the challenges that lie ahead.



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