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Collana	Cell Biology and Translational Medicine, , 2522-090X ; ; 1247
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	The future of stem cell research and its clinical translation in Canada: Exploring questions of governance and policy options -- Future cell and gene therapy for osteoarthritis (OA): potential for using mammalian protein production platforms, irradiated and transfected protein packaging cell lines for over-production of therapeutic proteins and growth factors -- The Horizon of Gene Therapy in Modern Medicine: Advances and Challenges -- Developments in Artificial Platelet and Erythroid Transfusion Products -- Advancing mesenchymal stem cell therapy with CRISPR/Cas9 for clinical trial studies -- Mesenchymal Stem Cells in Asthma -- Oocyte Aging: the Role of

Cellular and Environmental Factors and Impact on Female Fertility -- Targeting Cancer Metabolism and Cell Cycle by Plant-derived Compounds -- Differentiation potential of Mesenchymal Stem Cells into Pancreatic -Cells -- Zooming in across the Skin: A Macro-to-Molecular Panorama.

Sommario/riassunto

Much research has focused on the basic cellular and molecular biological aspects of stem cells. Much of this research has been fueled by their potential for use in regenerative medicine applications, which has in turn spurred growing numbers of translational and clinical studies. However, more work is needed if the potential is to be realized for improvement of the lives and well-being of patients with numerous diseases and conditions. This book series 'Cell Biology and Translational Medicine (CBTMED)' as part of SpringerNature’s longstanding and very successful Advances in Experimental Medicine and Biology book series, has the goal to accelerate advances by timely information exchange. Emerging areas of regenerative medicine and translational aspects of stem cells are covered in each volume. Outstanding researchers are recruited to highlight developments and remaining challenges in both the basic research and clinical arenas. This current book is the eight volume of a continuing series.