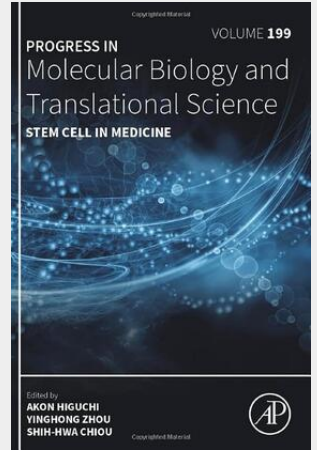


Stem Cell in Medicine

Volume 199

****Association of American Publishers (AAP) PROSE Award Finalist in Biomedicine and Neuroscience, 2024**** Stem Cells in Medicine, Volume 199 in the Progress in Molecular Biology and Translational Science series, provides the most topical and informative research in the field of stem cells. Sections in this new release update on an Introduction to stem cells, Stem cell engineering, Xeno-free culture and proliferation of hPSCs on 2D biomaterials, 3D scaffold preparation for stem cell culture and differentiation, GMP grade production of hPSCs, Human hepatic stem cell assay, Cardiomyocyte cell sheets derived from hPSCs and muscle cells for myocardial infarction treatment, Stem cell therapy for osteoarthritis, hPSC-derived RPE transplantation for the treatment of macular degeneration, and much more. The book provides not only fundamental aspects and cultural and production methods of stem cells, but also the critical engineering aspects of stem cells such as drug screening using hepatocytes and disease treatment by transplantation of retinal pigment epithelium and cardiomyocytes which are derived from human pluripotent stem cells.



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