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Nota di contenuto	Age-related macular degeneration: clinical findings, histopathology, and imaging techniques / Zarbin, M.A.; Casaroli-Marano, R.; Rosenfeld, P.J. -- General pathophysiology in retinal degeneration / Wert, K.J.; Lin, J.H.; Tsang, S.H. -- Juvenile-onset macular degeneration and allied disorders / North, V.; Gelman, R.; Tsang, S.H. -- Diagnosis and complementary examinations / Menghini, M.; Duncan, J.L. -- Stem cells for retinal repair / Stern, J.; Temple, S. -- Differentiation of pluripotent stem cells into retinal pigmented epithelium / Croze, R.H.; Clegg, D.O. -- Neural retinal regeneration with pluripotent stem cells / Ramsden, C.M.; Powner, M.B.; Carr, A.-J.F.; Smart, M.J.K.; da Cruz, L.; Coffey, P.J. -- Stem cells, retinal ganglion cells and glaucoma / Sluch, V.M.; Zack, D.J. -- Stem cells : immunology and immunomodulation / Tena, A.; Sachs, D.H. -- Biochemical restoration of aged human Bruch's membrane : experimental studies to improve retinal pigment epithelium transplant survival and differentiation / Sugino, I.K.; Sun, Q.; Cheewatrakoolpong, N.; Malcuit, C.; Zarbin, M.A. -- Approaches to cell delivery : substrates and scaffolds for cell therapy / Kundu, J.; Michaelson, A.; Baranov, P.; Young, M.J.; Carrier, R.L. -- Microdevice-based cell therapy for age-related macular degeneration / Lu, B.; Tai, Y.-C.; Humayun, M.S. -- Cell and gene therapy / Rao, R.C.; Zacks, D.N.

-- Cellular manufacturing for clinical applications / Sheu, J.; Klassen, H.; Bauer, G. -- Regulatory issues in cell-based therapy for clinical purposes / Casaroli-Marano, R.P.; Tabera, J.; Vilarrodona, A.; Trias, E.

Sommario/riassunto

In this volume, some of the leading authorities present their exploration of applications of stem cell therapy to the treatment of major causes of blindness, including degenerative diseases and glaucoma. The diagnostic approach to patients, general concepts of cell-based therapy, immunological considerations, approaches to cell delivery (including engineered scaffolds), combined cell and gene therapy, nanomedicine applications to cell therapy and regulatory issues pertaining to manufacture and production are all considered in detail. The book serves as an excellent introduction to a field that is now entering early-stage clinical trials and promises to operate at the leading edge of regenerative medicine. Retina specialists, general ophthalmologists as well as researchers will find here a wealth of information on the translational aspects of cell-based therapies. Further, business executives and students interested in understanding the potential applications of stem cell therapy to retinal degenerative disease and glaucoma will also find this book informative reading.
