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Nota di contenuto	Embryonic stem cells / Crystal L. Sengstaken, Eric N. Schulze, and Qi-Long Ying -- Adult stem cells / Lief Fenno and Chad A. Cowan -- Genomewide expression analysis technologies / John R. Walker -- Genomic cDNA and RNAi functional profiling and its potential application to the study of mammalian stem cells / Jia Zhang ... [et al.] -- Chemical technologies: probing biology with small molecules / Nicolas Winssinger, Zbigniew Pianowski, and Sofia Barluenga -- Protein characterization by biological mass spectrometry / Venkateshwar A. Reddy and Eric C. Peters -- Large-scale genomic analysis of stem cell populations / Jonathan D. Chesnut and Mahendra S. Rao -- Exploring stem cell biology with small molecules and functional genomics / Julie Clark ... [et al.] -- Regeneration screens in model organisms / Chetana Sachidanandan and Randall T. Peterson -- Proteomics in stem cells / Qiang Tian and W. Andy Tao.
Sommario/riassunto	Scientists believe that stem cells have the potential to revolutionize the treatment of numerous diseases and conditions. This guide covers

recent advances in technologies and their applications in stem cell biology, addressing the use of both embryonic and adult stem cells and discussing diverse technologies, including genome-wide expression analysis, informatics, chemical genomics, and more. Applications covered encompass self-renewal, differentiation, reprogramming, and regeneration in model organisms. This is a premier reference for practicing professionals involved in stem cell research a