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Nota di contenuto	Wnt signaling in regulation of stem cells / David T. Paik and Antonis K. Hatzopoulos -- Directed cardiomyogenesis of pluripotent stem cells / Jeffery B. Bylund & Antonis K. Hatzopoulos -- Chemical genetics in cardiomyocyte generation / Daqing Jin, Qiao Li and Tao P. Zhong -- Challenges and new directions for cardiac reprogramming / Young-Jae Nam and Nikhil Munshi -- Comparative analysis of adult stem cell niches / Bryan A. Fioret & Antonis K. Hatzopoulos -- Chemicals and stem cells for promoting regeneration / Bastakoty, Dikshya, Saraswati, Sarika, Young, Pampee -- Chemically induced pluripotent stem cells (CiPSC) : a potential chemical biological breakthrough in reprogramming? / Calvin C. Sheng, Jijun Hao, and Charles C. Hong -- An introduction to cellular reprogramming : the plasticity of cell fates and identities / Kelly P. Smith -- Chemicals facilitating reprogramming / Zhong-Dong Shi, Federico Gonzalez, and Danwei Huangfu -- Chemicals facilitating reprogramming : targeting the SAM binding site to identify novel methyltransferase inhibitors / Jeong-Do Kim, Jong S. Rim, Robert B. Crochet, Yong-Hwan Lee, Jaroslaw Staszkiewicz, Ru Gao, Kenneth J. Eilertsen -- Biomaterials for directed differentiation / Xintong Wang, Angela L. Zachman, Simon Maltais, Hak-Joon Sung -- Practicalities to translation from the clinic to the market / Devyn M.

	Smith.
Sommario/riassunto	Chemical Biology in Regenerative Medicine: Bridging Stem Cells and Future Therapies The field of regenerative medicine has advanced at a rapid pace and this comprehensive summary of new developments is a timely contribution to the field as clinical trials have begun to assess the safety and efficacy of cell-based therapies. In Chemical Biology in Regenerative Medicine, an international team of experts provides an overview of progress towards clinical application in the areas of transplantation (allogenic and autologous), manipulation of niche environment and homing, and cell reprogramming (