1. Record Nr. UNINA9910810689603321 Mesenchymal stem cell derived exosomes: the potential for **Titolo** translational nanomedicine / / edited by Yaoliang Tang, Buddhadeb Dawn London, England:,: Academic Press,, 2015 Pubbl/distr/stampa ©2015 **ISBN** 0-12-800497-5 Descrizione fisica 1 online resource (0 p.) Disciplina 616.02774 Mesenchymal stem cells Soggetti Mesenchymal stem cells - Differentiation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Insights into the Mechanism of Exosome Formation and Secretion / Kobina Essandoh, Guo-Chang Fan -- An Overview of the Proteomic and miRNA Cargo in MSC-Derived Exosomes / Soon Sim Tan, Tian Sheng Chen, Kok Hian Tan, Sai Kiang Lim -- Exosome Function in miRNA-Mediated Paracrine Effects / Sathyamoorthy Balasubramanian, Sheeja Rajasingh, Jayakumar Thangavel, Buddhadeb Dawn, Johnson Rajasingh -- Current Methods to Purify and Characterize Exosomes / W. Michael Dismuke, Yutao Liu -- Stem Cell Extracellular Vesicles: A Novel Cell-

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"Mesenchymal stem cell-derived exosomes are at the forefront of research in two of the most high profile and funded scientific areascardiovascular research and stem cells. Mesenchymal Stem Cell Derived Exosomes provides insight into the biofunction and molecular mechanisms, practical tools for research, and looks toward the clinical applications of this exciting phenomenon, which is emerging as an effective diagnostic technique. Primarily focused on the cardiovascular applications where there have been the greatest advancements toward the clinic, this is the first compendium for clinical and biomedical researchers who are interested in integrating MSC-derived exosomes as a diagnostic and therapeutic tool."--