

1. Record Nr.	UNINA9911019302503321
Titolo	Culture of cells for tissue engineering / / editors, Gordana Vunjak Novakovic, R. Ian Freshney
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Liss, c2006
ISBN	9786610311651 9781280311659 1280311657 9780470237793 0470237791 9780471741817 0471741817 9780471741800 0471741809
Descrizione fisica	1 online resource (536 p.)
Collana	Culture of Specialized Cells ; ; v.7
Altri autori (Persone)	Vunjak-NovakovicGordana FreshneyR. Ian
Disciplina	612.028
Soggetti	Tissue engineering Cell culture
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	CULTURE OF CELLS FOR TISSUE ENGINEERING; Contents; Preface; List of Abbreviations; PART I: CELL CULTURE; 1. Basic Principles of Cell Culture; 2. Mesenchymal Stem Cells for Tissue Engineering; 3. Human Embryonic Stem Cell Culture for Tissue Engineering; 4. Cell Sources for Cartilage Tissue Engineering; 5. Lipid-Mediated Gene Transfer for Cartilage Tissue Engineering; PART II: TISSUE ENGINEERING; 6. Tissue Engineering: Basic Considerations; 7. Tissue Engineering of Articular Cartilage; 8. Ligament Tissue Engineering; 9. Cellular Photoencapsulation in Hydrogels 10. Tissue Engineering Human Skeletal Muscle for Clinical Applications 11. Engineered Heart Tissue; 12. Tissue-Engineered Blood Vessels; 13. Tissue Engineering of Bone; 14. Culture of Neuroendocrine

Sommario/riassunto

Step-by-step, practical guidance for the acquisition, manipulation, and use of cell sources for tissue engineering Tissue engineering is a multidisciplinary field incorporating the principles of biology, chemistry, engineering, and medicine to create biological substitutes of native tissues for scientific research or clinical use. Specific applications of this technology include studies of tissue development and function, investigating drug response, and tissue repair and replacement. This area is rapidly becoming one of the most promising treatment options for patients suffering from tissue
