

1. Record Nr.	UNINA9910143562603321
Titolo	Culture of cells for tissue engineering [[electronic resource] /] / editors, Gordana Vunjak Novakovic, R. Ian Freshney
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Liss, c2006
ISBN	1-280-31165-7 9786610311651 0-470-23779-1 0-471-74181-7 0-471-74180-9
Descrizione fisica	1 online resource (536 p.)
Collana	Culture of Specialized Cells ; ; v.7
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Disciplina	612.028
Soggetti	Tissue engineering Cell culture Electronic books.
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 Applications11. Engineered Heart Tissue; 12. Tissue-Engineered Blood Vessels; 13. Tissue Engineering of Bone; 14. Culture of Neuroendocrine and Neuronal Cells for Tissue Engineering; 15. Tissue Engineering of the Liver; Suppliers List; Glossary; Index
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
