

1. Record Nr.	UNINA9910137688803321
Autore	Daniel Eberli
Titolo	Regenerative Medicine and Tissue Engineering : Cells and Biomaterials / / edited by Daniel Eberli
Pubbl/distr/stampa	IntechOpen, 2011 [Place of publication not identified] : , : IntechOpen, , 2011
ISBN	953-51-4450-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (604 pages)
Disciplina	610.28
Soggetti	Tissue Engineering Regenerative Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	Tissue Engineering may offer new treatment alternatives for organ replacement or repair deteriorated organs. Among the clinical applications of Tissue Engineering are the production of artificial skin for burn patients, tissue engineered trachea, cartilage for knee-replacement procedures, urinary bladder replacement, urethra substitutes and cellular therapies for the treatment of urinary incontinence. The Tissue Engineering approach has major advantages over traditional organ transplantation and circumvents the problem of organ shortage. Tissues reconstructed from readily available biopsy material induce only minimal or no immunogenicity when reimplanted in the patient. This book is aimed at anyone interested in the application of Tissue Engineering in different organ systems. It offers insights into a wide variety of strategies applying the principles of Tissue Engineering to tissue and organ regeneration.