



Edition: 1st Edition 2014
pages: 84
Images: 275
Cover: Softcover
ISBN: 978-0-86715-648-5
Published: June 2014

Quintessence Publishing Company, Inc.

 411 North Raddant Road
Batavia
Illinois IL 60510
United States of America

 +1 (0)630 / 736-3600

 +1 (0)630 / 736-3633

 contact@quintbook.com

 <http://nginx/usa/en>

Book information

Editor: Murata, Masaru / Um, In-Woong

Title: Advances in Oral Tissue Engineering

Short text:

For many decades, researchers have tried to develop materials that could be used just like autogenous bone. The editors of this book have assembled experts to showcase recent developments in tissue engineering and to demonstrate the basic biologic phenomena of bone repair using dentin grafts, growth factors, stimulating factors, inductive factors, and other factors in clinical applications. The research gathered in this book underscores the excellent outcomes based on sound science and pioneering clinical applications. New techniques using the tooth materials provide realistic and practical regenerative treatments for all patients.

Contents

- Chapter 01. Bone Autografting
- Chapter 02. Angiogenic Capacity of Periodontal Ligament-Derived Stem Cells
- Chapter 03. Gene Expression of BMP Receptor and Osteopontin in In Vitro-Induced Odontoblast-like Cells
- Chapter 04. Dentin Conditioning with BMP for Reconstruction of Periodontal Attachment
- Chapter 05. Primary Cell Culture from Human Dental Pulp
- Chapter 06. Detection of BMP-2 in Human Dental Pulp
- Chapter 07. Detection of Bacteria in Human Tooth-Derived Biomaterials
- Chapter 08. Subcutaneous Implantation of Demineralized Dentin Matrix
- Chapter 09. Surface Design and Functional Control of Demineralized Dentin Matrix
- Chapter 10. Autotransplantation of Teeth and Decalcified Dentin into the Atrophied Anterior Maxilla
- Chapter 11. Maxillary Bone Transport and Autologous Tooth Bone Grafting for Alveolar Cleft Repair
- Chapter 12. Maxillary Implant Restoration with Autograft of Decalcified Dentin Matrix
- Chapter 13. Extraction Socket Preservation and Reconstruction
- Chapter 14. Periodontal and Peri-implant Defects
- Chapter 15. Familial Tooth Bone Graft

Categories: Interdisciplinary