## QUINTESSENCE PUBLISHING DEUTSCHLAND

# Advances in Oral Tissue Engineering



Edition:	1st Edition 2014
pages:	84
Images:	275
Cover:	Softcover
ISBN:	978-0-86715-648-5
Stock No.:	16241
Published:	June 2014

#### **Quintessenz Verlags-GmbH**

- Ifenpfad 2-4
  12107 Berlin
  Germany
- **4** +49 (0) 30 / 76180-5
- +49 (0) 30 / 76180-680
- info@quintessenz.de
- http://nginx/deu/de

# **Book information**

Editor: Title: Murata, Masaru / Um, In-Woong 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: Interdi

Interdisciplinary