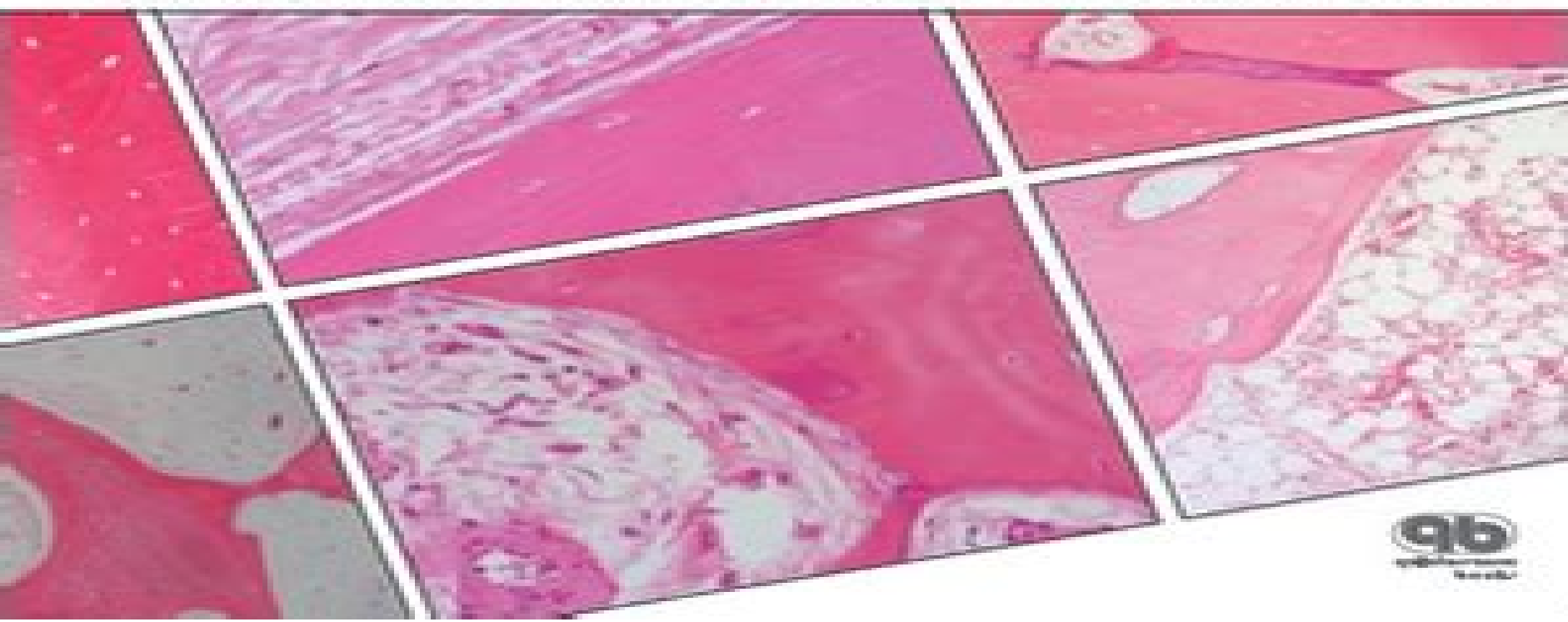


Advances in Oral Tissue Engineering

Edited by Masaru Murata, DSc, PhD, and In-Woong Um, DSc, PhD



Advances In Oral Tissue Engineering

Rui Guo,Zhengwei Mao,Gang Wu



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Advances in Craniofacial and Dental Materials Through Nanotechnology and Tissue Engineering Giovanna Orsini, Angelo Putignano, Thimios A. Mitsiadis, 2019-05-16 Dental and craniofacial treatments are actually based on advances in biomaterials tissue engineering and nanotechnology sciences These developments brought considerable improvements on biomaterials commonly used in dental clinics However there is still a medical need for innovative techniques and materials for a controllable and efficient regeneration repair of damaged craniofacial tissues and teeth The novel biomaterials imaging techniques diagnostic and technological tools may offer thrilling perspectives for alternative treatments in dentistry

Advances in Additive Manufacturing Technologies for the Production of Tissue-Engineered Bone Scaffolds for Dental Applications Barbara Zavan, Stefano Sivoletta, Nikos Donos, 2022-09-21 *Advances in Tissue Engineering* Julia M. Polak, Sakis Mantalaris, Sian E. Harding, 2008 *Advances in Tissue Engineering* is a unique volume and the first of its kind to bring together leading names in the field of tissue engineering and stem cell research A relatively young science tissue engineering can be seen in both scientific and sociological contexts and successes in the field are now leading to clinical reality This book attempts to define the path from basic science to practical application A contribution from the UK Stem Cell Bank and opinions of venture capitalists offer a variety of viewpoints and exciting new areas of stem cell biology are highlighted With over fifty stellar contributors this book presents the most up to date information in this very topical and

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bones are typical hard tissues in vertebrates. Due to hierarchical structural characteristics and excellent mechanical properties, hard tissues play important roles in the human body such as health protection, movement support, and food mastication. Once a hard tissue defect occurs, our living quality will be seriously affected. In general, hard tissues lack the ability to self-repair except for the regeneration ability of bone for small scale defects. As a result, the past few decades have witnessed great progress in the field of biomaterials for hard tissue repair. Actually, both teeth and bone are masterpieces of biomineralization in nature; the repair and regeneration of hard tissues should be performed in a biomimetic way, either by using a biomimetic mineralization strategy or biomimetic materials.

Stem Cell Biology and Tissue Engineering in Dental Sciences Ajaykumar Vishwakarma, Paul Sharpe, Songtao Shi, Murugan Ramalingam, 2014-11-05. Stem Cell Biology and Tissue Engineering in Dental Sciences bridges the gap left by many tissue engineering and stem cell biology titles to highlight the significance of translational research in this field in the medical sciences. It compiles basic developmental biology with keen focus on cell and matrix biology, stem cells with relevance to tissue engineering, biomaterials including nanotechnology, and current applications in various disciplines of dental sciences viz. periodontology, endodontics, oral craniofacial surgery, dental implantology, orthodontics, dentofacial orthopedics, organ engineering, and transplant medicine. In addition, it covers research ethics, laws, and industrial pitfalls that are of particular importance for the future production of tissue constructs. Tissue Engineering is an interdisciplinary field of biomedical research which combines life engineering and materials sciences to progress the maintenance, repair, and replacement of diseased and damaged tissues. This ever-emerging area of research applies an understanding of normal tissue physiology to develop novel biomaterial, acellular, and cell-based technologies for clinical and non-clinical applications. As evident in numerous medical disciplines, tissue engineering strategies are now being increasingly developed and evaluated as potential routine therapies for oral and craniofacial tissue repair and regeneration. Diligently covers all the aspects related to stem cell biology and tissue engineering in dental sciences: basic science research, clinical application, and commercialization. Provides detailed descriptions of new modern technologies, fabrication techniques employed in the fields of stem cells, biomaterials, and tissue engineering research, including details of latest advances in nanotechnology. Includes a description of stem cell biology with details focused on oral and craniofacial stem cells and their potential research application throughout medicine. Print book is available in black and white, and the ebook is in full color.

Medical Advancements in Aging and Regenerative Technologies: Clinical Tools and Applications Daskalaki, Andriani, 2012-11-30. This book translates basic science discoveries into regenerative therapies with the application of clinical tools in aging and tissue regeneration.

A Textbook of Advanced Oral and Maxillofacial Surgery Mohammad Hosein Motamedi, 2016-08-31. Advanced oral and maxillofacial surgery encompasses a vast array of diseases, disorders, defects, and deformities, as well as injuries of the mouth, head, face, and jaws. It relates not only to treatment of impacted teeth, facial pain, misaligned jaws, facial trauma, oral cancers, jaw cysts, and tumors, but also to facial cosmetic

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Barry K.B Berkovitz,G.R. Holland,Bernard J. Moxham,2024-08-23 Selected for 2025 Doody's Core Titles in Dental Hygiene Auxiliaries Oral Anatomy Histology and Embryology Sixth Edition is unique in offering easy to understand explanations of all three of these complex topics in the one book This popular textbook is designed to help students develop a deep understanding of these subjects to support their study and future clinical careers Learning is made easy with clear diagrams photographs and explanations Now in its sixth edition the book has been fully updated to incorporate latest developments in the field It provides full coverage of topics including tooth morphology functional anatomy oro dental histology craniofacial and oral development and clinical considerations Over 1 000 images including schematic artworks radiological images electron micrographs cadaveric and clinical photographs and memory maps all specially selected to make learning and recall as easy as possible Numerous clinical case histories help relate the basic science to clinical practice Includes comprehensive coverage of the soft tissues of the oral region and skeletal structures of the head including vasculature and innervation Includes information on mastication swallowing speech radiology and archaeological applications of tooth structure Addresses physical chemical and structural properties of the tooth enamel dentine pulp and cementum and of the periodontium and oral mucosa Explores bone structure and remodelling including potential bone atrophy following tooth extraction its relevance to orthodontic treatment and implantology trauma and malignancy Images and text have been considered in terms of human diversity Online self assessment quizzes supports learning and exam preparation Online bibliography for each topic provides options for further reading An enhanced eBook version is included with purchase The eBook allows you to access all the text figures and references with the ability to search customise your content make notes and highlights and have content read aloud New chapter on reparative and regenerative dentistry Memory maps to support learning

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