

# Advances in Oral Tissue Engineering

Edited by Masaru Munata, DDS, PhD, and In-Woong Um, DDS, PhD



# Advances In Oral Tissue Engineering

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## **Advances In Oral Tissue Engineering:**

*Advances in Oral Tissue Engineering* Masaru Murata, In-Woong Um, 2014    [Current Advances in Oral and Craniofacial Tissue Engineering](#) Vincenzo Guarino, Marco Antonio Alvarez-Perez, 2020-11-12 Oral tissue engineering involves the study of current approaches for in vitro regeneration of soft and hard tissues located into the oral cavity. In this context recent approaches involve the use of innovative biomaterials to replace the lost or damaged human oral tissues. Recent discoveries in materials science and nanotechnology are drastically changing the traditional approach to dentistry by the design of innovative devices able to more efficiently support the natural regeneration process. The objective of this book is to highlight current progress in tissue engineering for various dental hard and soft tissues including enamel, dentin, pulp, alveolar bone, periodontium, gum and oral mucosa by emphasizing the role of materials and their specific applications.

**Advances in Oral and Maxillofacial Surgery** Jose M Marchena, Jonathan Shum, Jonathon S Jundt, 2019-10-05 This issue of Oral and Maxillofacial Surgery Clinics of North America is devoted to Advances in Oral and Maxillofacial Surgery and is edited by Drs Jose M Marchena, Jonathan Shum and Jonathon S Jundt. Articles will include Virtual Surgical Planning for Maxillofacial Surgery, Surgical Navigation for Oral and Maxillofacial Surgery, Real Time Adjuncts for Dental Implant Placement, New Technologies for Tissue Cutting, Minimally Invasive Maxillofacial Surgery, Conservative Approaches to Benign Pathology, Tissue Engineering, Patient Specific Implants, Practice Management in Oral and Maxillofacial Surgery, Advances in Anesthesia Monitoring, Advances in Surgical Training Simulation, Advances in Functioning Imaging and more.

**Tissue Engineering and Regeneration in Dentistry** Rachel J. Waddington, Alastair J. Sloan, 2016-11-18 Tissue Engineering and Regeneration in Dentistry Current Strategies presents a thorough update on the current advances, methods and understanding in tissue engineering in dentistry. It offers invaluable tools, case studies and methodologies for undertaking research, including important biological and practical considerations to facilitate successful migration of research from the bench to the clinic. Offers detailed coverage of the basic underlying principles and scientific evidence and includes protocols to highlight practical applications. Written by an internationally renowned team of expert contributors, A must have read for researchers and specialist clinicians in tissue engineering, oral biology, dental materials science, periodontology and oral surgery.

*Advancements in Personalized Digital Oral Surgery, An Issue of Oral and Maxillofacial Surgery Clinics of North America* Neha Sharma, Florian M. Thieringer, 2025-07-15 In this issue of Oral and Maxillofacial Surgery Clinics guest editors Drs Neha Sharma and Florian M Thieringer bring their considerable expertise to the topic of Advancements in Personalized Digital Oral Surgery. Top experts in the field discuss technologies such as CAD CAM, 3D printing, robotic surgery, virtual reality and artificial intelligence, as well as clinical areas such as the temporomandibular joint, the orbit, implants, mandibular and maxillary reconstruction, and orthognathics. Contains 11 relevant, practice oriented topics including the role of digital technologies in personalized craniomaxillofacial surgical procedures, integrating virtual planning and 3D printing for

craniofacial trauma management digital transformation in facial cosmetic implant procedures enhancing TMJ surgical outcomes with digital technologies robotic surgery in craniomaxillofacial treatment and more Provides in depth clinical reviews on advancements in personalized digital oral surgery offering actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create clinically significant topic based reviews **Oral Surgery**

**Innovations: Advancing Dental Procedures for Optimal Outcomes** Dr. H. Hari Kishore Bhat,2023-03-14 Explore the latest innovations in oral surgery with this comprehensive guide Focusing on advanced procedures and technologies this book aims to improve patient outcomes and provide oral surgeons with the tools to stay at the forefront of their field

**Textbook of Oral and Maxillofacial Surgery - E-Book** S. M. Balaji,Padma Preetha Balaji,2023-07-26 The Fourth edition of the book is a scholastic and comprehensive presentation of oral and maxillofacial surgery that delves into all aspects of the specialty in an insightful and penetrating manner This textbook is written in a language that is easy to comprehend and the latest surgical techniques and developments are categorised into easily understandable segments The contents were well structured organised and designed to adequately meet the curriculum requirement in oral and maxillofacial surgery Consists of over 2 000 high resolution photographs CTs and CBCTs of surgical cases that illuminate surgical concepts with a clarity that makes them easy to understand Many of these are being used for the first time and are unique in their presentation There are also over 1100 anatomical line diagrams that serve as a step by step surgical guide Tables flowcharts and boxes are used liberally throughout the textbook to highlight core surgical concepts Contains 57 chapters under 14 sections that span the entire field with sections on anaesthesia minor oral surgery maxillofacial infections maxillofacial pathologies dentofacial deformities neurogenic disorders temporomandibular joint surgeries and maxillofacial trauma Discusses basic concepts that serve as building blocks such as definitions history taking and treatment planning Radiodiagnosis microbiological histopathological and biochemical analyses are also provided Highlights cutting edge advances being made in the field in the last chapter which serves to emphasise the constantly expanding frontiers of the field The sole purpose of this is to serve as a source of inspiration to an entire new generation and give their careers a research oriented direction

**Nickel-Titanium Materials** Yoshiki Oshida,Toshihiko Tominaga,2020-08-24 Nickel Titanium alloys are smart materials exhibiting unique properties such as superelasticity and shape memory effect The material has been used as orthodontic wires in the dental field for over 20 years This book is a comprehensive overview to the field of Ni Ti Materials and the physical chemical and mechanical properties of this versatile alloy In addition complications and challenges exhibited in applications are also discussed **Emerging Biomaterials and Techniques in Tissue Regeneration, An Issue of Oral and Maxillofacial Surgery Clinics of North America** Alan S. Herford,2016-11-29 This issue of Oral and Maxillofacial Surgery Clinics of North America focuses on Emerging Biomaterials in Oral and Maxillofacial Surgery and is edited by Dr

Alan Herford Articles will include Basic Principles of Bioengineering and Regeneration Soft Tissue Regeneration Incorporating 3D Biomimetic Scaffolds Advances in Orofacial Stem Cells for Tissue Regeneration Tissue Engineering for Vertical Ridge Reconstruction Integrating Biomaterials in Trauma Tissue Engineered Pre vascularized Bone and Soft Tissue Flaps Application of Biomaterials for Implant Therapy Maxillofacial Defects and Use of Growth Factors New Frontiers in Biomaterials Soft Tissue Engineering and much more The International Journal of Oral & Maxillofacial Implants ,2008

**Applications of Biomedical Engineering in Dentistry** Lobat Tayebi,2019-08-27 This book offers readers a valuable overview of recent advances in biomedical engineering as applied to the modern dentistry It begins by studying the biomaterials in dentistry and materials used intraoperatively during oral and maxillofacial surgery procedures Next it considers the subjects in which biomedical engineers can be influential such as 3 dimensional 3D imaging laser and photobiomodulation surface modification of dental implants and bioreactors Hard and soft tissue engineerings in dentistry are discussed and some specific and essential methods such as 3D printing are elaborated Presenting particular clinical functions of regenerative dentistry and tissue engineering in treatment of oral and maxillofacial soft tissues is the subject of a separate chapter Challenges in the rehabilitation handling of large and localized oral and maxillofacial defects is a severe issue in dentistry which are considered to understand how bioengineers help with treatment methods in this regard Recent advances in nanodentistry is discussed followed by a chapter on the applications of stem cell encapsulated hydrogel in dentistry Periodontal regeneration is a challenging issue in dentistry and thus is going to be considered separately to understand the efforts and achievements of tissue engineers in this matter Oral mucosa grafting is a practical approach in engineering and treatment of tissues in ophthalmology which is the subject of another chapter Microfluidic approaches became more popular in biomedical engineering during the last decade hence one chapter focuses on the advanced topic of microfluidics technologies using oral factors as saliva based studies Injectable gels in endodontics is a new theme in dentistry that bioengineering skills can advance its development specifically by producing clinically safe and effective gels with regeneration and antibacterial properties Engineered products often need to be tested in vivo before being clinical in dentistry thus one chapter is dedicated to reviewing applicable animal models in dental research The last chapter covers the progress on the whole tooth bioengineering as a valuable and ultimate goal of many dental researchers Offers readers an interdisciplinary approach that relates biomedical engineering and restorative dentistry Discusses recent technological achievements in engineering with applications in dentistry Provides useful tool to dental companies for future product planning specifically to biomedical engineers engaged in dental research Journal of the California Dental Association ,2004

**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 C D A Journal California Dental Association,2005-06 **Proceedings of 5th World Congress for Oral Implantology** Keiichi Furumoto,2001

### **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 and black and white and the ebook is in full color

**Compendium of Continuing Education in Dentistry** ,2007 *Directory of the Members of the American Academy of Periodontology* American Academy of Periodontology,2003 **Tissue Engineering** Samuel E. Lynch,2008 This new edition reflects the remarkable clinical and scientific advances in bone and soft tissue reconstruction since publication of the first edition of this award winning book 7 years ago Highly potent recombinant growth factors are now widely available and numerous chapters describe and provide cases illustrating how to incorporate these protein therapeutics into clinical practice The reader will find information about the basic principles of tissue engineering use of growth factors in orthopedics and potential applications of gene therapy in dentistry The book also features chapters on periodontal regeneration and localized implant site development A section on applications for craniofacial reconstruction describes procedures for use of

growth factors in the treatment of defects The final section addresses orthopedic indications for tissue engineering An invaluable up to date resource for practitioners wanting to integrate tissue engineering into their clinical practice researchers seeking inspiration for new directions and those new to this fascinating field Applications of Biomedical Engineering in Dentistry ,2020 This book offers readers a valuable overview of recent advances in biomedical engineering as applied to the modern dentistry It begins by studying the biomaterials in dentistry and materials used intraoperatively during oral and maxillofacial surgery procedures Next it considers the subjects in which biomedical engineers can be influential such as 3 dimensional 3D imaging laser and photobiomodulation surface modification of dental implants and bioreactors Hard and soft tissue engineerings in dentistry are discussed and some specific and essential methods such as 3D printing are elaborated Presenting particular clinical functions of regenerative dentistry and tissue engineering in treatment of oral and maxillofacial soft tissues is the subject of a separate chapter Challenges in the rehabilitation handling of large and localized oral and maxillofacial defects is a severe issue in dentistry which are considered to understand how bioengineers help with treatment methods in this regard Recent advances in nanodentistry is discussed followed by a chapter on the applications of stem cell encapsulated hydrogel in dentistry Periodontal regeneration is a challenging issue in dentistry and thus is going to be considered separately to understand the efforts and achievements of tissue engineers in this matter Oral mucosa grafting is a practical approach in engineering and treatment of tissues in ophthalmology which is the subject of another chapter Microfluidic approaches became more popular in biomedical engineering during the last decade hence one chapter focuses on the advanced topic of microfluidics technologies using oral factors as saliva based studies Injectable gels in endodontics is a new theme in dentistry that bioengineering skills can advance its development specifically by producing clinically safe and effective gels with regeneration and antibacterial properties Engineered products often need to be tested *in vivo* before being clinical in dentistry thus one chapter is dedicated to reviewing applicable animal models in dental research The last chapter covers the progress on the whole tooth bioengineering as a valuable and ultimate goal of many dental researchers Offers readers an interdisciplinary approach that relates biomedical engineering and restorative dentistry Discusses recent technological achievements in engineering with applications in dentistry Provides useful tool to dental companies for future product planning specifically to biomedical engineers engaged in dental research

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