

Frontiers of Oral Biology

Editor: P.T. Sharpe

Vol. 18



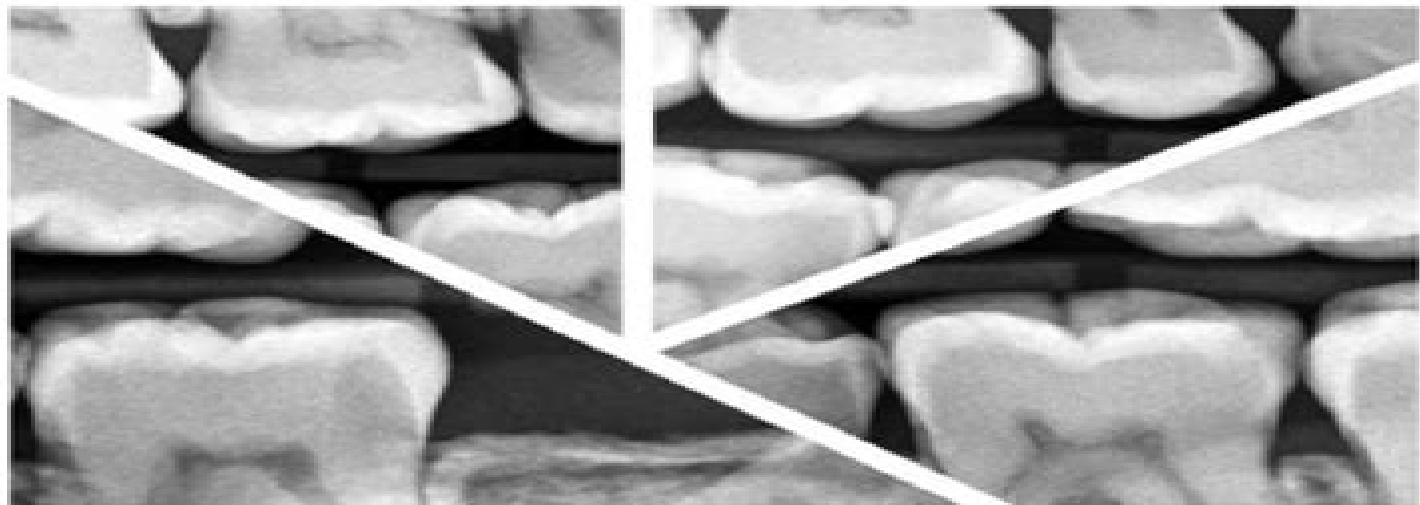
Tooth Movement

Editors

A. Kantarci

L. Will

S. Yen



KARGER

Tooth Movement Frontiers Oral Biology

A., Kantarci,L., Will,S., Yen



Tooth Movement Frontiers Oral Biology:

Tooth Movement A., Kantarci, L., Will, S., Yen, 2015-11-24 With the intention of improving the rate quality and stability of orthodontic tooth movement those in the field are now moving toward accomplishing this acceleration with minimally or non invasive methods New procedures have been widely tested in humans animal models and in vitro While interest is growing both in the industry and at the clinical level the understanding of the biology is limited Considering that a simple increase in force will result in tooth morbidity and arrest of the tooth migration a multi disciplinary approach is critical for success This publication brings together multi disciplinary expertise on a wide variety of processes related to and involved in orthodontic tooth movement The premise is that by better understanding the biological structures and the mechanism through which they respond to biomechanical forces one can get a better assessment of the acceleration This work presents research aimed at an improved understanding of conventional and accelerated orthodontic tooth movement from a biological perspective and will be of great value to clinicians researchers academics and students

Biology of Orthodontic Tooth Movement

Bhavna Shroff, 2016-05-30 This book presents the current knowledge and understanding of the biological processes involved in the orthodontic movement of teeth and discusses recent progress in the field It links research advances to their immediate clinical applications and offers researchers and clinicians a state of the art reference on topical issues relating to orthodontic tooth movement Biological events play a central role in the movement of teeth during orthodontic therapy The basis for understanding the sequence of cellular events that leads to orthodontic movement has been well established in the literature through the use of animal models In recent years researchers and clinicians have focused their efforts on developing treatment modalities to increase the speed of orthodontic treatment and provide better anchorage options for noncompliant patients This book will be an invaluable aid in understanding the biology of tooth movement and the relevance of the latest concepts to clinical practice

Biological Mechanisms of Tooth Movement Vinod Krishnan, Ze'ev Davidovitch, 2009-03-09

The adaptation and development of biological concepts in orthodontics Ze'ev Davidovitch and Neal C Murphy Biology of orthodontic tooth movement an overview Vinod Krishnan Young Guk Park and Ze'ev Davidovitch The effects of mechanical loading on hard and soft tissues and cells Itzhak Binderman und weitere Genetic influences on orthodontic tooth movement Maggie Zeichner David The role of inflammation in defining the type and pattern of tissue response in orthodontic tooth movement Masaru Yamaguchi Biological aspects of bone growth and metabolism in orthodontics Song Chen James K Hartsfield Jr and W Eugene Roberts Markers of paradental tissue remodeling in the gingival crevicular fluid of Orthodontic patients Laura R Iwasaki and Jeffrey C Nickel Effects of systemic diseases on orthodontic tooth movement Ze'ev Davidovitch and Vinod Krishnan The effect of drugs and diet on orthodontic tooth movement Vinod Krishnan and Ze'ev Davidovitch Biologically and clinically what are optimal orthodontic forces and how are they applied in selective common malocclusions Vincent De Angelis and Ze'ev Davidovitch The biological background of relapse of orthodontic tooth movement Jaap C Maltha

and Anne Marie Kuijpers Jagtman Mechanical and biological determinants of iatrogenic injuries in orthodontics Vinod Krishnan Current Approaches in Orthodontics, 2019-04-10 This book provides information on the current technological developments and new concepts in orthodontic treatment procedures The main concepts of the book are scope innovations in accelerated tooth movement new developments such as corticotomy microperforations MOP piezosicion photobiostimulation laser in orthodontics chemical agents as well as complications and risks The book contains interdisciplinary managements involving surgery first cleft lip and palate therapy orthognathic surgery and obstructive sleep apnea This internationally recognized specialty is continuing to experience advancements in technology instrumentation and treatment methods

Human Tooth and Developmental Dental Defects Ana Gil De Bona,Hakan Karaaslan,2022-07-27 The unique tissues of human teeth enamel and dentin have been studied by scientists to understand their structure physical and chemical properties and the developmental machinery behind these extraordinary properties During the developmental process genetic and environmental factors or the interplay between them may cause defects in dental hard tissues impairing their biology and function These defects have long been studied to provide better dental care and to find novel treatment options Understanding the mechanical chemical and structural differences in developmental dental defects is also crucial for a routine dental practice as many of these lesions do not have pathognomonic properties This book focuses on the qualitative and quantitative properties of the sound enamel and dentin as well as the affected human tooth structures It examines how genetics impact oral and dental health the role of fluoride and trace elements in mineralization and the related clinical implications and the impact of different approaches to diagnose and treat these developmental disorders **Tooth Enamel:**

Frontiers in Mineral Chemistry and Biochemistry, Integrative Cell Biology and Genetics Steven Joseph Brookes,Ariane Berdal,Sylvie Babajko,Alexandre Rezende Vieira,2019-03-20 Tooth Enamel Frontiers in Mineral Chemistry and Biochemistry Integrative Cell Biology and Genetics incorporates the proceedings of the 9th International Enamel Symposium Enamel 9 hosted in the UK and chaired by Professor Jennifer Kirkham and Professor Ariane Berdal The topic covers cellular and molecular aspects of the development pathology evolution and repair or regeneration of dental enamel The original research papers and reviews will be of interest to all enamel and biomineralization researchers Clinicians will find up to date thinking and opinion on the aetiology of enamel pathologies and their potential future treatment via novel strategies for preventing repairing and regenerating enamel Advances in Tooth Development and Regeneration: the Importance of Cytodifferentiation and Mineralization Processes Guohua Yuan,Shuo Chen,Q. Adam Ye,Huan Liu,2023-01-05

Dental and Periodontal Tissues Formation and Regeneration: Current Approaches and Future Challenges Giovanna Orsini,Victor E. Arana-Chavez,Thimios Mitsiadis,2016-10-07 Sequential and reciprocal interactions between oral epithelial and cranial neural crest derived mesenchymal cells give rise to the teeth and periodontium Teeth are vital organs containing a rich number of blood vessels and nerve fibers within the dental pulp and periodontium Teeth are composed by

unique and specific collagenous dentin fibrillar cementum and non collagenous enamel highly mineralized extracellular matrices Alveolar bone is another collagenous hard tissue that supports tooth stability and function through its close interaction with the periodontal ligament Dental hard tissues are often damaged after infection or traumatic injuries that lead to the partial or complete destruction of the functional dental and supportive tissues Well established protocols are routinely used in dental clinics for the restoration or replacement of the damaged tooth and alveolar bone areas Recent progress in the fields of cell biology tissue engineering and nanotechnology offers promising opportunities to repair damaged or missing dental tissues Indeed pulp and periodontal tissue regeneration is progressing rapidly with the application of stem cells biodegradable scaffolds and growth factors Furthermore methods that enable partial dental hard tissue repair and regeneration are being evaluated with variable degrees of success However these cell based therapies are still incipient and many issues need to be addressed before any clinical application The understanding of tooth and periodontal tissues formation would be beneficial for improving regenerative attempts in dental clinics In the present e book we have covered the various aspects dealing with dental and periodontal tissues physiology and regeneration in 6 chapters 1 General principles on the use of stem cells for regenerating craniofacial and dental tissues 2 The roles of nerves vessels and stem cell niches in tissue regeneration 3 Dental pulp regeneration and mechanisms of various odontoblast functions 4 Dental root and periodontal physiology pathology and regeneration 5 Physiology and regeneration of the bone using various scaffolds and stem cell populations 6 Physiology pathology and regeneration of enamel using dental epithelial stem cells *Innovative Dental Biomaterials for Advancing Oral Health Care* Zuhair S. Natto, Mary Anne Sampaio Melo, Abdulrahman A. Balhaddad, 2025-08-20

The complexity of the oral environment challenges the clinical longevity of dental materials These challenges involve several aspects related to the mechanical and biological performance of these materials Dental materials inside the oral cavity are subjected to repetitive cycles of stress and fatigue This mechanical challenge is complicated by the frequent exposure to consumable drinks and salivary enzymes which may accelerate the degradation process of such materials In addition the interaction between dental materials and oral biofilms is a complex and dynamic process that can have significant implications for oral health Dental materials provide a surface for the attachment and growth of oral bacteria The attached microbes can produce acids as metabolic byproducts leading to the degradation of dental materials Such challenges have guided dental researchers to investigate advanced approaches to improve dental materials mechanical and biological behavior Applying nanotechnology in the dental field allows engineering dental materials with improved mechanical and physical properties Besides imparting bioactive compounds in dental materials contributes to the remineralization of tooth structure and the preservation of the surrounding soft tissues via releasing ions and diminishing the attachment of the oral microbes The design of advanced dental materials with improved properties allows dental professionals to achieve superior treatment outcomes enhance patient satisfaction and provide more efficient and effective

dental care *Oral Anatomy, Histology and Embryology - E-Book* 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 Scanning Electron Microscopy for the Life Sciences Heide Schatten,2013 A guide to modern scanning electron microscopy instrumentation methodology and techniques highlighting novel applications to cell and molecular biology *Dental Caries* Ole Fejerskov,Bente Nyvad,2024-06-21 Authoritative and comprehensive resource on the disease process and clinical management of dental caries Dental Caries The Disease and Its Clinical Management 4th Edition maintains the same focus on high level coverage of the disease etiology and process clinical assessment and prognosis and wider public health issues connected with dental caries management including an enhanced focus on caries control Fully updated throughout the chapters that discuss theory emphasize how the knowledge can be applied in both the clinic and in the public health domain to improve oral health The new edition also includes up to date and validated diagnostic and management options for caries whilst ensuring that the tools provided allow practitioners to serve the needs of different socio economic populations All sections are complimented by high quality color photographs clear line drawings and references for further study With contributions from international experts in research and clinical practice Dental Caries includes information on Acquisition and establishment of the oral

microbiome metabolism of the microbiome in caries and the essential role of saliva for dental caries and erosion Initiation and progression of dental caries in dental hard tissues and the relationship between sugar diets and dental caries The caries control concept and consequences for minimally invasive management of caries Caries control in children adults and the elderly including root surface caries and oral health care in the elderly Implication of caries control for the dental profession including best practices for assessment of lesion activity prognosis and risk for developing dental caries Dental Caries Fourth Edition is an unrivaled guide to tooth decay and a must have resource for undergraduate and postgraduate students in dental public health paediatric and restorative dentistry as well as all practitioners looking to develop their clinical skills

Genetic Basis of Oral Health Conditions Alexandre Rezende Vieira, 2019-11-28 This book explains the genetic basis of a wide range of dental disorders including dental caries periodontitis congenital anomalies malocclusions orofacial pain dental implant failure and cancer Such conditions are typically multifactorial or complex with involvement of more than one gene as well as environmental influences A sound grasp of this framework is ever more important given the emergence of consumer genomics including direct to consumer genetic testing Dental professionals now need to understand why one person is susceptible to a particular oral health condition while a first degree relative either does not develop the condition or does so in a less severe form Knowledge of how genes operate in the susceptible host is essential if patients are to be offered accurate advice about their risks The information provided in this book will assist in the delivery of effective personalized dental care through optimization of preventive strategies It will enable the practitioner to explain the extent to which a patient's condition is pure bad luck whether that bad luck can be changed by behavioral choices and how many of our behaviors are influenced by genes

The Teeth of Mammalian Vertebrates Barry Berkovitz, Peter Shellis, 2018-08-10 The Teeth of Mammalian Vertebrates is an important reference for researchers in dentistry comparative morphology anthropology and vertebrate palaeontology and those with an interest in exploring and understanding diversity The book provides a comprehensive and informed analysis of mammalian dentitions and highlights the importance of teeth as drivers and mirrors of evolution and diversity Journal of Anatomy The Teeth of Mammalian Vertebrates presents a comprehensive survey of mammalian dentitions that is based on material gathered from museums and research workers from around the world The teeth are major factors in the success of mammals and knowledge of tooth form and function is essential in mammalian biology Illustrated with high quality color photographs of skulls and dentitions together with X rays CT images and histology this book reveals the tremendous variety of tooth form and structure in mammals Written by two internationally recognized experts in dental anatomy the book provides an up to date account of how teeth are adapted to acquiring and processing food With its companion volume this book provides a complete survey of the teeth of vertebrates It is the ideal resource for students and researchers in zoology biology anthropology archaeology and dentistry Provides a comprehensive account of mammalian dentitions together with helpful reading lists Illustrated by 900 high quality

photographs X rays CT scans and histological images from leading researchers and world class museum collection Depicts lateral and occlusal views of the skull and dentition which conveys a much greater level of morphological detail than line drawings Contains clear and concise up to date reviews of the structure and properties of dental tissues especially the enamel and tooth support system both of which play vital roles in the functioning of the mammalian dentition

Role of Oxidative Stress in Oral Diseases Alexandrina L. Dumitrescu,Gareth W. Davison,2019-12-10 On the Origin of Human Masticatory Function Andrea Papini,2025-10-01 This book outlines how the physiology of human mastication is the product of an evolutionary development that has its roots in that of the primates that were our ancestors and even earlier in that of mammals In order to understand deeply who we are we must know where we come from This book therefore highlights in a truly interdisciplinary fashion how dentistry and paleoanthropology often intersect and how knowledge about both these subjects overlap By laying anatomical functional foundations of our oral system combining dental and paleoanthropological knowledge this book offers great value to students and scholars of both disciplines

Orofacial Functions: From Neural Mechanisms to Rehabilitation Teresa Lever,Limor Avivi-Arber,Kazutaka Takahashi,2022-09-23 *Integrated Clinical Orthodontics* Vinod Krishnan,Anne Marie Kuijpers-Jagtman,2023-09-13 Integrates orthodontic diagnosis and treatment into the wider healthcare of the patient to achieve the highest possible standards of care Integrated Clinical Orthodontics offers an overview of clinical orthodontic theory and practice to equip clinicians to take an integrated approach to orthodontic practice It presents the problems of orthodontics in an interdisciplinary context to describe how the potential complexity of dentofacial problems the medical histories of patients and a host of other factors contribute to orthodontic outcomes The second edition has been expanded and thoroughly updated with new chapters and following an organized approach to the role of the orthodontist as part of a team Cases in the book include orofacial deformities sleep disorders esthetic smile creation and temporomandibular joint problems Orthodontic diagnosis and treatment are integrated into the wider health of the patient including orthopedics neurology pediatrics genetics and psychology and the result is a modern adaptable approach that places the patient and their needs at its center to achieve the highest possible standard of patient care Readers of the second edition of Integrated Clinical Orthodontics will also find New chapters on neuromuscular disorders customized orthodontics artificial intelligence ethics and patient data Expanded content on special care in dentistry Guidance for the clinical interactions between orthodontics and other areas of dentistry and medicine Clinical implications and applications of the integrated approach in every chapter Integrated Clinical Orthodontics is an essential resource for clinical orthodontists and specialists in related medical and dental fields who wish to take the holistic view of orthodontic practice

Oral Anatomy, Histology and Embryology B. K. B. Berkovitz,Graham Rex Holland,B. J. Moxham,2009 Now entering its 40th anniversary the fifth edition of Oral Anatomy Histology and Embryology has been thoroughly overhauled updated and augmented to meet the needs of dental students worldwide Now available with new pedagogic features and an enhanced

illustration program Oral Anatomy Histology and Embryology 5th edition also comes with a free online program containing a wide selection of MCQs and additional learning exercises to allow readers to test and reinforce their knowledge editor

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Tooth Movement Frontiers Oral Biology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have captivated audiences this year. Tooth Movement Frontiers Oral Biology : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Tooth Movement Frontiers Oral Biology : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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