

Seltzer And Bender S Dental Pulp

Dental Pulp Derived Mesenchymal Stromal Cells The Dental Pulp Dynamic Aspects of Dental Pulp The Dental Pulp Experimental Endodontics Mesenchymal Stromal Cells as Tumor Stromal Modulators Regenerated Organs The Dental Cosmos Stem Cell Biology and Regenerative Medicine Dental Times Regenerative Approaches in Dentistry The Dental Cosmos: A Monthly Record Of Dental Science Dental Pulp Stem Cells Stem Cell Biology and Regenerative Medicine The International Dental Journal The Comparative Anatomy of the Domesticated Animals ... Second Edition, Revised and Enlarged, with the Co-operation of S. Arloing ... Translated and Edited by George Fleming, Etc Seltzer and Bender's Dental Pulp The American System of Dentistry The Indiana Dental Journal A Study of Dental Pulp Cells Sibel Yildirim Michel Goldberg Reizo Inoki Samuel Seltzer Larz S.W. Spangberg Marcela Bolontrade Chandra P. Sharma J. D. White Mehdi Razavi Sepanta Hosseinpour J. D. White Sibel Yildirim Charles Durand Jean Baptiste Auguste CHAUVEAU Kenneth M. Hargreaves Wilbur F. Litch Carolyn Coppe

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this book presents an evaluation of stem cells from human dental pulp as a reliable stem cell source for cell based therapy to stimulate tissue regeneration in this thoroughly updated and expanded second edition the author covers mesenchymal stem cell msc biology various sources of mscs and the therapeutic potential of mscs tooth regeneration dental pulp derived msc and the therapeutic potential of dental pulp derived stem cells is also covered this is an essential resource for students faculty and researchers in academia and industry working on dental pulp stem cells

this book provides a detailed update on our knowledge of dental pulp and regenerative approaches to therapy it is divided into three parts the pulp components are first described covering pulp cells extracellular matrix vascularization and innervation as well as pulp development and aging the second part is devoted to pulp pathology and includes descriptions of the differences between reactionary and reparative dentin the genetic alterations leading to dentinogenesis imperfecta and dentin dysplasia the pulp reaction to dental materials adverse impacts of bisphenol a and the effects of fluorosis dioxin and other toxic agents the final part of the book focuses on pulp repair and regeneration it includes descriptions of various in vitro and in vivo animal experimental approaches definition of the pulp stem cells with special focus on the stem cell niches discussion of the regeneration of a living pulp and information on new strategies that induce pulp mineralization

this book presents a circumspective overview and update of the present existing knowledge of the biology chemistry and pathophysiology of the dental pulp it details numerous observations of a group of highly specialized investigators who have united in the common purpose of presenting their observations for the benefit of clinicians teachers researchers and students fortunately the dental literature presents abundant research findings about pulp biology and the pulp s responses to various stimuli this abundance has resulted in an increased interest and expansion of research on this subject for example publications abound on the response of pulp tissue to various medications and to a variety of types of dental materials which may be placed near to or at some distance from the pulp through the medium of dentine one of the reasons the pulp is of such interest is that it not only provides the vitality to the teeth but also produces the dentine both the primary and secondary as well as reparative the latter type dentine is a result of the pulp s functions in response to disease as the former dentine is in response to health as an example some investigators have reported the effects of cutting of dentine and the placement of restorations in dentine which in turn reflect changes on the pulp tissue these reports have raised a number of questions which in turn have created a need for answers

a comprehensive guide for dentists to the inner living part of teeth with the goal of avoiding injury to it from dental procedures explores such topics as development circulation nerves and pain physical and biological irritants and restorations and caps thoroughly updated since the 1984 second edition annotation copyrighted by book news inc portland or

written by the top experts in their fields this is the first comprehensive text in the area of experimental endodontics it provides detailed information on methodology and interpretation on the structure and function of dentin and the dental pulp articles give extensive coverage to endodontic neuroanatomy neurophysiology and microcirculation the book supplies in depth information on bacteriology and immunology for readers interested in endodontic microbiology extensive guidance is given also in the area of endodontic biomaterials and biocompatibility experimental endodontics is an essential reference source for students researchers and clinicians needing up to date literature in laboratory research methodologies

mesenchymal stromal stem cells msks represent a heterogeneous cell population with immunomodulating tissue repairing differentiating migratory and angiogenic abilities making them important tools for clinical and translational research an understanding of the role of msks in modulating tumor growth provides a glimpse into their role in non pathological tissue remodeling and potential regenerative tissue therapies mesenchymal stromal cells as tumor stromal modulators is a comprehensive source for the understanding of the role of msks as ubiquitous connective tissue cell components which may have both direct and indirect effects on the tumor microenvironment and potential for regenerative therapeutics for various diseases using cancer as a model disease this book explores the transformative role msks play in the recruitment of disease cells cell repair and immunological defenses explores the biology of mesenchymal stromal cells msks and tissue related function discusses the bidirectional communication between tumor stroma and msks derived from bone marrow from adipose tissue and from other tissue types provides in depth analysis of the effects of msks on key processes that regulate disease progression such as angiogenesis metastatic potential invasion proliferation tumor immune privileges

regenerated organs future perspectives provides the translational research aspects currently lacking in existing literature in this rapidly moving field the book is divided into six sections engineering approaches cardiovascular system musculoskeletal regeneration regenerative neuroscience respiratory research a future outlook and conclusions each chapter is multi authored by international experts in each area the book s primary audience is academic faculty and those in industry interested in translational research in regenerative medicine and tissue engineering additionally this book is ideal for graduate students in the field discusses recent

advances in tissue and organ fabrication provides translational research aspects that are often lacking in existing literature contains chapters that are multi authored by international experts in the field

tissue engineering is an interdisciplinary field which involves the fabrication of tissues by using a porous protein scaffold cells and bioactive molecules the aim of tissue engineering is to enhance medical applications and procedures this volume introduces the reader to the basics of employing pluripotent stem cells in tissue engineering successive chapters present knowledge about relevant tissue engineering techniques in different medical and physiological specialties including dentistry cardiovascular physiology hepatology nephrology dermatology and orthopedics the text offers a wealth of information that will be of use to all students bioengineers materials scientists chemists physicians and surgeons concerned with the properties performance and the application of tissue engineering scaffolds in clinical settings

this book provides evidence based information in the field of regenerative dentistry discussing the most recent advances current clinical applications limitations and future directions the coverage encompasses the regeneration of alveolar bone the dentine pulp complex enamel the periodontium and other tissues associated with the oral cavity a full description is provided of regenerative approaches in dentistry including regenerative endodontics and tooth repair regenerative periodontics regenerative assisted orthodontics regenerative approaches in oral medicine and dental tissue derived stem cells and their potential applications the book is written by an international team of leading experts it will be beneficial for students practitioners and researchers in the fields of endodontics periodontics and implantology

stem cell technology is moving forward at a tremendous rate recent discoveries have surprised even the most expert researchers while every piece of new data broadens the current knowledge and contributes to this moving forward the new data also serve as paradigm shifters of fundamental knowledge of cell biology while the question what is a stem cell may now seem to basic to even discuss there are still some discrepancies however between groups in terms of their functional roles teeth develop from the ectoderm of the first branchial arch and the ectomesenchyme of the neural crest deciduous teeth start to form between the sixth and eighth weeks and permanent teeth begin to form in the twentieth weeks several studies have demonstrated that the pulp from both adult teeth and deciduous teeth contains dental pulp stem cells several factors have made them very attractive as a model system for many researchers they are multipotent ethically and non controversially available in large numbers immuno compatible developmentally primitive easy to isolate and have high expansion potential in vitro however many controversies still exist in the field there are several unanswered questions in the biology of dental pulp and odontoblasts this new volume in the springerbriefs in stem cells series presents an evaluation of stem cells from human dental pulp as a reliable stem cell source for cell based therapy to stimulate tissue regeneration

the study of stem cell biology is under intensive investigation because stem cells have the unique capability to self renew and differentiate into one or several cell types they play a critical role in development tissue homeostasis and regeneration stem cells also constitute promising cell candidates for cell and gene therapy the aim of this book is to provide readers and researchers with timely and accurate knowledge on stem cell biology and regenerative medicine this book will cover many topics in the field and is based on conferences given by recognized scientists involved in the international master course on stem cell biology at sorbonne université in paris

nearly three decades ago samuel seltzer and i b bender pioneered the concept of developing biologically based recommendations for the clinical practice of endodontics and restorative dentistry this concept was the cornerstone of their classic textbook the dental pulp seltzer and bender s dental pulp represents the evolution of that book and of the philosophical principles

on which it was based today we know that pulp tissue plays a central role in both local and systemic health this book presents the latest research on the dental pulp and its interaction with other tissues each chapter provides an introduction to its major themes for the busy clinician or dental student as well as a set of biologically based clinical recommendations for restorative and endodontic procedures practicing clinicians need this information to provide accurate diagnoses and effective treatment to their patients

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