Yu-Chen Hu

Gene Therapy for Cartilage and Bone Tissue Engineering



Gene Therapy For Cartilage And Bone Tissue Engineering Springerbriefs In Bioengineering

Roberto Narcisi, Elena Jones

Gene Therapy For Cartilage And Bone Tissue Engineering Springerbriefs In Bioengineering:

Gene Therapy for Cartilage and Bone Tissue Engineering Yu-Chen Hu, 2014-01-26 Gene Therapy for Cartilage and Bone Tissue Engineering outlines the tissue engineering and possible applications of gene therapy in the field of biomedical engineering as well as basic principles of gene therapy vectors and gene delivery specifically for cartilage and bone engineering It is intended for tissue engineers cell therapists regenerative medicine scientists and engineers gene therapist and virologists Dr Yu Chen Hu is a Distinguished Professor at the Department of Chemical Engineering National Tsing Hua University and has received the Outstanding Research Award National Science Council Asia Research Award Society of Chemical Engineers Japan and Professor Tsai Teh Lai Award Taiwan Institute of Chemical Engineers He is also a fellow of the American Institute for Medical and Biological Engineering AIMBE and a member of the Tissue Engineering International Regenerative Medicine Society TERMIS Asia Pacific Council Nano-Engineering at Functional Interfaces for Multidisciplinary Applications Sai Sathish Ramamurthy, Seemesh Bhaskar, Narendra Reddy, 2024-10-18 Nano Engineering at Functional Interfaces for Multi disciplinary Applications Electrochemistry Photoplasmonics Antimicrobials and Anticancer Applications provides a comprehensive overview of the fundamentals and latest advances of nano engineering strategies for the design development and fabrication of novel nanostructures for different applications in the fields of photoplasmonics and electrochemistry as well as antibacterial and anticancer research areas The book begins with an introduction to the fundamentals and characteristics of nanostructured interfaces and their associated technologies including an overview of their potential applications in different fields The following chapters present a thorough discussion of the synthesis processing and characterization methods of nanomaterials with unique functionalities suitable for energy harvesting food and textile applications electrocatalysis biomedical applications and more It then concludes outlining research future directions and potential industrial applications Presents the advantages and impact of nano engineering in technological advances with up to date discussions on their applications Covers research directions and potential future applications of nano engineering in industry Includes case studies that illustrate important processes Gene Therapy and Tissue Engineering in Orthopaedic and Sports Medicine Johnny Huard, Freddie H. Fu, 2013-03-11 This book has been written in response to the many physicians and scien tists working on the development of biological approaches to providing therapies for many orthopaedic disorders as well as to improving the healing of many tissues of the musculoskeletal system. The first goal of this book is to make the language compatible between the bench scientist and the clinician working in orthopaedic and sports medicine in order to cover specific areas of the orthopaedic discipline where the treatment can be improved and or changed by the advancements in molecular medicine Advancements in molecular biology which encompass the study of the genetic basis of disease have produced new diagnostic methods and drug therapies for genetic diseases and acquired disorders The growth in the understanding of human genetics has also led to the initiation of many human gene therapy experiments

Although many approved therapeutic clinical trials using this new technology have been performed in the last ten years the first clinical trial using this technology in the area of orthopaedics was performed at the University of Pittsburgh *Tissue Engineering of Cartilage and Bone* Gregory R. Bock, Jamie A. Goode, 2003-07-22 Tissue engineering takes advantages of the combined use of cultured living cells and three dimensional scaffolds to reconstruct adult tissues that are absent or malfunctioning This book brings together scientists and clinicians working on a variety of approaches for regenerating of damaged or lost cartilage and bone to assess the progress of this dynamic field In its early days tissue engineering was driven by material scientists who designed novel bio resorbable scaffolds on which to seed cells and grow tissues This ground breaking work generated high expectations but there have been significant stumbling blocks holding back the widespread use of these techniques in the clinic These challenges and potential ways of overcoming them are given thorough coverage in the discussions that follow each chapter The key questions addressed in this book include the following How good must cartilage repair be for it to be worthwhile What is the best source of cells for tissue engineering of both bone and cartilage Which are the most effective cell scaffolds What are the best preclinical models for these technologies And when it comes to clinical trials what sort of outcome measures should be used With contributions from some of the leading experts in this field this timely publication will prove essential reading for anyone with an interest in the field of tissue engineering

Orthopedic Tissue Engineering Victor M. Goldberg, Arnold I. Caplan, 2004-01-21 This book explores the basic science and clinical concepts impacting bone tissue engineering considers advances in gene therapy for enhancement of bone and cartilage repair and presents the biomechanical factors affecting articular cartilage engineering Bone and Cartilage Engineering Ulrich Meyer, Hans Peter Wiesmann, 2006-08-02 Bone and Cartilage Engineering provides a complete overview of recent knowledge in bone and cartilage tissue engineering It follows a logical approach to the various aspects of extracorporal bone and cartilage tissue engineering The cooperation between a basic scientist and a clinician made it possible to structure the book s content and style according to the interdisciplinary character of the field The comprehensive nature of the book including detailed descriptions of laboratory procedures preclinical approaches clinical applications and regulatory issues will make it an invaluable basis for everyone working in this field This book will serve as a fundamental tool for basic researchers to establish or refine tissue engineering techniques as well as for clinicians to understand and use this modern therapeutic option Development of Gene Therapy Techniques for Use in Bone Tissue Engineering **Applications** Kelly Kathleen Macdonald, 2004 Bone Tissue Engineering Using an Ex Vivo Gene Therapy Approach Michelle Dianne Kofron, 2007 The treatment of critical size bone defects continues to be a challenge for the orthopaedic surgeon Traditional approaches to bone repair primarily use autograft bone but limitations have led scientific research to focus on developing tissue engineered constructs for bone This thesis examined use of a biodegradable polymeric scaffold in combination with bone marrow stromal cells genetically modified to release an osteoinductive growth factor Cartilage

Tissue Engineering and Regeneration Techniques Dimitrios D. Nikolopoulos, George K. Safos, Kalpaxis Dimitrios, 2019-06-05 Osteochondral defects can be challenging to treat first because the damaged articular cartilage has a poor intrinsic reparative capability and second because these defects cause chronic pain and serious disability That is why cartilage repair remains one of the most challenging issues of musculoskeletal medicine Arthroscopic and open techniques that have been developed over the last two decades intend to promote the success of complete repair of the articular cartilage defects nevertheless these therapies cannot always offer 100% success Nowadays cartilage tissue engineering is an emerging technique for the regeneration of cartilage tissue Taking into consideration these perspectives this book aims to present a summary of cartilage tissue engineering including development recent progress and major steps taken toward the regeneration of functional cartilage tissue Special emphasis is placed on the role of stimulating factors including growth factors gene therapies as well as scaffolds including natural synthetic and nanostructured **Bone and Cartilage Regeneration** Phuc Van Pham, 2017-01-24 This invaluable resource discusses clinical applications with effects and side effects of applications of stem cells in bone and cartilage regeneration Each chapter is contributed by a pre eminent scientist in the field and covers such topics as skeletal regeneration by mesenchymal stem cells clinical improvement of mesenchymal stem cell injection in injured cartilage and osteoarthritis Good manufacturing practice GMP minimal critera of stem cells for clinical applications future directions of the discussed therapies and much more Bone Cartilage Regeneration and the other books in the Stem Cells in Clinical Applications series will be invaluable to scientists researchers advanced students and clinicians working in stem cells regenerative medicine or tissue engineering **Engineering Mineralized and Load Bearing Tissues** Luiz E. Bertassoni, Paulo G. Coelho, 2015-11-07 This book offers a comprehensive overview of current challenges and strategies to regenerate load bearing and calcified human tissues including bone cartilage tendon ligaments and dental structures dentin enamel cementum and periodontal ligament Tissue engineering has long held great promises as an improved treatment option for conditions affecting mineralized and load bearing structures in the body Although significant progress has been achieved in recent years a number of challenges still exist Scaffold vascularization new biofabrication methods 3D printing lithography microfabrication peptide conjugation methods interface engineering scaffold mechanical properties iPS cells organs on a chip are some of the topics discussed in this book More specially in the first section readers will find an overview of emerging biofabrication methods In section 2 applied strategies for regeneration of 2 1 bone cartilage and ligament as well as 2 2 dentin cementum enamel and periodontal ligament are discussed across 14 chapters While other volumes have addressed the regeneration of individual tissues or exclusively focused on different regenerative strategies the focus of this work is to bring together researchers integrating backgrounds in materials sciences engineering biology mechanics fluidics etc to address specific challenges common to regeneration of several load bearing and calcified tissues Therefore this book provides a unique platform to stimulate progress in the regeneration of functional

tissue substitutes We envision that this book will represent a valuable reference source for university and college faculties post doctoral research fellows senior graduate students and researchers from R D laboratories in their endeavors to fabricate biomimetic load bearing tissues Integrating Non-viral Gene Therapy and 3D Bioprinting for Bone, Cartilage and Osteochondral Tissue Engineering Tomas Gonzalez Fernandez, 2017 Cell-Based Approaches for Modulating Cartilage and Bone Phenotype Roberto Narcisi, Elena Jones, 2021-12-22 Biologic Foundations for Skeletal Tissue Engineering Ericka M. Bueno, Julie Glowacki, 2011 Tissue engineering research for bone and joint applications entails multidisciplinary teams bringing together the needed expertise in anatomy biology biochemistry pathophysiology materials science biomechanics fluidics and clinical and veterinary orthopedics It is the goal of this volume to provide students and investigators who are entering this exciting area with an understanding of the biologic foundations necessary to appreciate the problems in bone and cartilage that may benefit from innovative tissue engineering approaches This volume includes state of the art information about bone and cartilage physiology at the levels of cell and molecular biology tissue structure developmental processes their metabolic and structural functions responses to injury mechanisms of post natal healing and graft incorporation the many congenital and acquired disorders effects of aging and current clinical standards of care It reviews the strengths and limitations of various experimental animal models sources of cells composition and design of scaffolds activities of growth factors and genes to enhance histogenesis and the need for new materials in the context of cell based and cell free tissue engineering These building blocks constitute the dynamic environments in which innovative approaches are needed for addressing debilitating disorders of the skeleton It is likely that a single tactic will not be sufficient for different applications because of variations in the systemic and local environments. The realizations that tissue regeneration is complex and dynamic underscore the continuing need for innovative multidisciplinary investigations with an eye to simple and safe therapies for disabled patients Table of Contents Introduction Structure and Function of Bone and Cartilage Tissue Development Responses to Injury and Grafting Clinical Applications for Skeletal Tissue Engineering Animal Models Tissue Engineering Principles for Bone and Cartilage Perspectives Nanoengineering in Musculoskeletal Regeneration Mehdi Razavi, 2020-05-09 Nanoengineering in Musculoskeletal Regeneration provides the reader an updated summary of the therapeutic pipeline from biomedical discovery to clinical implementation aimed at improving treatments for patients with conditions of the muscles tendons cartilage meniscus and bone Regenerative medicine focuses on using stem cell biology to advance medical therapies for devastating disorders This text presents novel significant and interdisciplinary theoretical and experimental results related to nanoscience and nanotechnology in musculoskeletal regeneration Content includes basic translational and clinical research addressing musculoskeletal repair and regeneration for the treatment of diseases and injuries of the skeleton and its associated tissues Musculoskeletal degeneration and complications from injuries have become more prevalent as people live longer and increasingly participate in rigorous athletic and recreational activities Additionally

defects in skeletal tissues may immobilize people and cause inflammation and pain Musculoskeletal regeneration research provides solutions to repair restore or replace skeletal elements and associated tissues that are affected by acute injury chronic degeneration genetic dysfunction and cancer related defects The goal of musculoskeletal regeneration medicine research is to improve quality of life and outcomes for people with musculoskeletal injury or degradation Provides broad coverage in all research areas focused on the applications of nanotechnology in musculoskeletal regeneration Offers useful guidance for physician scientists with expertise in orthopedics regenerative medicine bioengineering biomaterials nanoengineering stem cell biology and chemistry Serves as a practical reference for many disciplines including bioengineering biomaterials tissue engineering regenerative medicine musculoskeletal regenerative medicine and nanomedicine Cartilage Tissue Engineering Martin J. Stoddart, Elena Della Bella, Angela R. Armiento, 2022-11-10 This detailed book brings together a collection of methodologies from the most basic to the more complex that provides researchers with a platform they can use to embark on a cartilage research career To aid in the search for novel therapies for cartilage regeneration this volume addresses 3D cartilage models challenges associated with RNA and protein extraction imaging gene transfer as well as stable differentiation and variations in cell phenotype from different tissue origins Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Cartilage Tissue Engineering serves as an ideal guide for Mesenchymal Stem Cell Mediated Gene researchers working to advance the vital study of cartilage biology and repair Therapy for Bone Tissue Engineering and Regeneration Gadi Turgeman, 2004 Osteochondral Tissue Engineering J. Miguel Oliveira, Sandra Pina, Rui L. Reis, Julio San Roman, 2018-04-24 This book reviews the most recent developments in the field of osteochondral tissue engineering OCTE and presents challenges and strategies being developed that face not only bone and cartilage regeneration but also establish osteochondral interface formation in order to translate it into a clinical setting Topics include nanotechnology approaches and biomaterials advances in osteochondral engineering advanced processing methodology as well as scaffolding and surface engineering strategies in OCTE Hydrogel systems for osteochondral applications are also detailed thoroughly Osteochondral Tissue Engineering Nanotechnology Scaffolding Related Developments and Translation is an ideal book for biomedical engineering students and a wide range of established researchers and professionals working in the orthopedic field Cartilage Repair and Regeneration Alessandro Rozim Zorzi, João Batista de Miranda, 2018-02-14 This work is the result of a partnership that began in 2011 when I received for the first time the invitation to be the scientific editor of a book on bone grafting by the still little publisher known as InTech Now six years later InTech has grown and thrived My respect and warm approval for the quality of the publisher's work only increased The hyaline cartilage is a tissue that challenges tissue engineering and regenerative medicine because of its

avascular nature In the 11 chapters of this book the reader will find texts written by researchers working on advanced topics related to basic laboratory research as well as excellent reviews on the clinical use of currently available therapies

Tissue Engineering and Cell Therapy for Cartilage Restoration Tiago Lazzaretti Fernandes, Daniela Franco Bueno, Kazunori Shimomura, Zhenxing Shao, Andreas H. Gomoll, 2022-10-05

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