

MEDICAL INTELLIGENCE UNIT

Mohammed S. Razzaque

Fibrogenesis: **Cellular and Molecular Basis**



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Fibrogenesis Cellular And Molecular Basis

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Fibrogenesis Cellular And Molecular Basis:

Fibrogenesis Mohammed S. Razzaque, 2005-01-07 Fibrogenesis Cellular and Molecular Basis is the first volume to provide a synopsis of the rapid progress that has been documented in fibrogenesis over last couple of years which significantly enhanced our understanding of the pathomechanisms of fibrotic diseases Knowledge on molecular and cellular basis of fibrotic diseases has provided opportunities to develop selective and effective gene based therapeutic options The chapters in this book have been selected to provide comprehensive information on fibrogenesis which is not limited to any specific organ Individual chapters present mechanisms of fibrotic diseases involving lung liver kidney heart blood vessels and more The relevance and significance of inflammatory cytokines chemokines transcriptional factors fibrogenic molecules signaling cascade and matrix remodeling in fibrogenesis are explained in depth providing the reader with current and updated information Cellular and Molecular Mechanisms of Lung Regeneration, Repair, and Fibrosis Chunheng Mo, Xiao Xiao Tang, Shigeyuki Shichino, Gianluca Bagnato, 2024-01-23 Organ fibrosis seriously threatens human health Globally more than 30% of the diseases that cause disability and death are due to organ fibrosis However there have been so far only a few effective treatments for organ fibrosis Idiopathic pulmonary fibrosis IPF is progressive lethal fibrotic lung disease Approximately 10 100 000 people globally suffer from pulmonary fibrosis and the incidence is on the rise The median survival for patients is only 3 5 years Currently there is no effective treatment for lung fibrosis Therefore new insights into lung fibrosis and therapeutic strategy should be explored and developed This Research Topic aims to deepen the understanding and research on the pathogenesis of lung fibrosis to develop effective treatments Studies have shown that effective lung repair and regeneration are critical biological processes for the restoration of original physiological function of lung after injury The intrinsic ability of regeneration and repair is often suppressed in lung with chronic injury or the diseased organs leading to fibrosis and loss of function Targeting key pathways in the process of lung regeneration can promote the repair of the impaired lung and alleviate fibrosis in animal models How to induce regeneration and repair of the impaired organ to alleviate fibrosis is a frontier research topic Hence this Research Topic focuses on the cellular and molecular mechanisms of lung regeneration repair and fibrosis Moreover this topic will also focus on the study of lung development to provide new insights into the pathogenesis of lung injury and fibrosis Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis Ralf Weiskirchen, 2020-12-29 Worldwide liver fibrosis is a major cause of morbidity and mortality and is associated with a high medical and economic burden It is the common consequence of chronic liver injury due to various etiologies During fibrogenesis there is a progressive substitution of the liver parenchyma by scar tissue Recent advances in the understanding of the history of liver fibrosis have shown that the pathogenesis is driven by different cell types and a large variety of soluble mediators At present scientists working in this field aim to increase basic knowledge improve diagnostics and try to translate experimental findings into new treatment modalities This book includes 12 selected

contributions from the Special Issue Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis that was published in Cells These articles summarize current perspectives and findings in hepatic fibrosis research showing how scientists try to use basic scientific research to create new therapies and diagnostics

Molecular Basis and Gene Therapies of Cystic Fibrosis John Engelhardt, Claude Ferec, 2020-12-11 Summary of Genes Thirty years ago the gene responsible for cystic fibrosis CF a recessive genetic disease caused by mutations in the cystic fibrosis transmembrane conductance regulator gene was identified This progress has considerably changed our understanding of the pathophysiology of CF and has paved the way for the development of novel and specific therapies for the disease The CFTR gene contains 27 exons and is characterized by a frequent three base pair deletion of the p Phe508del As a result of collaborative work today more than 2000 mutations have been reported in the gene and their impact on protein function is now more evident and useful in designing new strategies to correct the gene defect The field of gene therapy as illustrated by Ziying Yan in this book has worked on identifying an efficient vector system for the delivery of the wild type CFTR gene to the lung At the same time animal models have been developed in mice rats rabbits zebrafish ferrets and pigs to establish the efficacy of gene delivery These animals are also of the utmost importance in testing new molecules as modulators or correctors to improve the CFTR lung function During the last three decades the epidemiology of CF has dramatically changed as today cystic fibrosis is now a chronic adult pulmonary disease

Biomedical Index to PHS-supported Research, 1991

Molecular Basis of Pulmonary Disease Francis X. McCormack, Ralph J. Panos, Bruce C. Trapnell, 2010-03-10 The study of rare lung disorders enhances our understanding of common pulmonary diseases such as fibrosis and emphysema Molecular Basis of Lung Disease Insights from Rare Disorders brings together a panel of distinguished clinicians and molecular scientists who are experts in a range of rare lung diseases and their underlying molecular defects Each chapter focuses on the pathogenic mechanisms and therapeutic targets suggested by basic research and follows an easy to read format brief introduction followed by discussion of epidemiology genetic basis and molecular pathogenesis animal models clinical presentation diagnostic approaches conventional management and treatment strategies as well as future therapeutic targets and directions Disorders ranging from the Marfan and Goodpasture s syndromes to Sarcoidosis and alpha one titrypsin deficiency are treated in detail Written for pulmonary clinicians and scientists alike Molecular Basis of Lung Disease Insights from Rare Disorders is a comprehensive and invaluable resource that sheds new light on the molecular mechanisms influencing the clinical presentation and treatment strategies for these debilitating disorders

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992

Understanding convergent evasion mechanisms in cancer and chronic infection: Implications for immunotherapy Matthias Theobald, Hansjörg Schild, 2024-06-04 The complex interactions between the innate and adaptive immune systems function to recognize and clear pathogens or transformed cells but inefficient interactions between these two systems can result in harmful immunologic responses including chronic

infections and the development of cancer Several hallmarks of dysfunctional adaptive immune responses often detected in tumors share specific features with ineffective immunity in chronic infections The members of the microenvironment actively participate in the process of tumorigenesis or chronification of infection by modulating innate and adaptive immune system interactions leading e g to insufficient T cell responses The best example is given by the acquisition of an exhausted state of cytotoxic CD8 T cells CTLs responding to chronic infections or tumors that are associated with elevated expression of inhibitory receptors and impaired cytokine response Targeting these major inhibitory pathways by immune checkpoint blockers represents a prime example of successful clinical translation of tumor specific immunotherapies Understanding the mechanisms behind mal adaptations of the immune system is crucial for achieving therapeutic benefits The establishment and co evolution of a dynamic microenvironment niche constituted by the recruitment of numerous cell types dampen immune responses and thus contribute to the development of neoplastic transformation as well as infection Although there are examples of successful immunotherapeutic approaches CAR T cells immune checkpoint inhibitors or mRNA vaccination a large percentage of patients with cancer or chronic infections still do not benefit from these therapies or develop severe immune related adverse events The reasons for these failures are not well understood A possible explanation might be that current immunotherapies target predominantly the effector arm of the immune system by trying to reactivate dysfunctional T cells but do not sufficiently address the influence of the innate immune system and the contributions of the tumor microenvironment TME niche The main problem we would like to address in this special issue is how inappropriate function of the innate immune system affects adaptive immunity and contributes to inefficient anti cancer immunity and chronification of infections The central goal is to provide a more precise understanding of the various common and novel immune evasion mechanisms in cancers and in chronic infections to obtain a detailed map of common and disease specific immune escape checkpoints To that aim we want to compile a wide array of interdisciplinary studies exploring a comparative and multi layered analysis of mechanisms responsible for inefficient immune responses including novel approaches i e multi omics or epigenetic signaling We would also like to combine studies from different fields including basic and clinical immunology oncology and virology microbiology We welcome the submission of Original Research Review Mini Review Methods Case report and Perspective articles that cover but are not limited to the following topics Convergent mechanisms supporting immune escape in preclinical models tumors and chronic infections Convergent evasion mechanisms mediated by tumor infiltrating suppressive cells Treg MDSC macro phages soluble mediators signaling metabolism Convergent immune evasion mechanisms mediated by chronic infection viral or parasite Novel strategies to modulate the TME by direct or indirect targeting of immune suppressor cells Approaches to enhance persistence and resilience of anticancer T cells Combinatorial therapeutic strategies mRNA antibodies immune checkpoint blockers that target convergent immune evasion mechanisms Manuscripts consisting solely of bioinformatics or computational analysis of public genomic or transcriptomic databases

which are not accompanied by robust and relevant validation clinical cohort or biological validation in vitro or in vivo are out of scope for this topic

Chloride Movements Across Cellular Membranes, 2011-09-22 All living cells are surrounded by a lipidic membrane that isolates them from the often harsh environment However to take up nutrients to excrete waste and to communicate among each other Nature has invented an incredibly diverse set of transmembrane transport proteins Specialized transporters exist to shuttle electrically charged ions positive cations like sodium or negative anions like chloride across the membrane In the recent years tremendous progress has been made in the field of chloride transport The present book presents the state of the art of this rapidly expanding and interest gaining field of membrane transport It is addressed at a broad medically physiologically biologically and biophysically interested readership Describes the state of the art in anion transport research Written by leaders in the field Presents a timely discussion of this rapidly emerging and expanding field

Mechanisms of Lung Fibrosis: is Immunity Back in the Game? Enrico Conte, Katerina Antoniou, Marialuisa Bocchino, Antoine Froidure, 2022-04-04

Cystic Fibrosis Methods and Protocols William R. Skach, 2008-02-02 Since the cloning of the cystic fibrosis transmembrane conductance re lator CFTR nearly a decade ago cystic fibrosis CF research has witnessed a dramatic expansion into new scientific areas Basic researchers clinicians and patients increasingly rely on fundamental techniques of genetics molecular biology electrophysiology biochemistry cell biology microbiology and immunology to understand the molecular basis of this complex disease Research into the pathophysiology of CF has established numerous paradigms of ion channel dysfunction that extend from inflammation and infection in the airways of patients to basic mechanisms of protein processing and regulation in intracellular components With these rapid advances has come an increasing need for research scientists to understand and utilize a growing array of basic laboratory tools This volume of *Methods in Molecular Medicine Cystic Fibrosis Methods and Protocols* satisfies that need by providing detailed protocols for the laboratory techniques used throughout CF research From electrophysiology and cell biology to animal models and gene therapy the comprehensive set of methods covered here provide step by step instructions needed for investigators to incorporate new approaches into their research programs Contributions have been chosen to reflect the rich diversity of techniques and to provide a cohesive framework for understanding challenges that are currently at the forefront of CF research It is hoped that this volume will serve as a valuable reference that will not only foster interdisciplinary investigations into current problems encountered in CF but also facilitate the translation of new scientific discoveries into clinical solutions

Comprehensive Toxicology, 2017-12-01 *Comprehensive Toxicology Third Edition Fifteen Volume Set* discusses chemical effects on biological systems with a focus on understanding the mechanisms by which chemicals induce adverse health effects Organized by organ system this comprehensive reference work addresses the toxicological effects of chemicals on the immune system the hematopoietic system cardiovascular system respiratory system hepatic toxicology renal toxicology gastrointestinal toxicology reproductive and endocrine toxicology neuro and behavioral toxicology developmental

toxicology and carcinogenesis also including critical sections that cover the general principles of toxicology cellular and molecular toxicology biotransformation and toxicology testing and evaluation Each section is examined in state of the art chapters written by domain experts providing key information to support the investigations of researchers across the medical veterinary food environment and chemical research industries and national and international regulatory agencies Thoroughly revised and expanded to 15 volumes that include the latest advances in research and uniquely organized by organ system for ease of reference and diagnosis this new edition is an essential reference for researchers of toxicology Organized to cover both the fundamental principles of toxicology and unique aspects of major organ systems Thoroughly revised to include the latest advances in the toxicological effects of chemicals on the immune system Features additional coverage throughout and a new volume on toxicology of the hematopoietic system Presents in depth comprehensive coverage from an international author base of domain experts

Biotechnology Annual Review M.R. El-Gewely, 1997-07-15 This new series aims at covering the development in the field of biotechnology in the form of comprehensive illustrated and well referenced reviews With the expansion in the field of biotechnology both in industry as well as in education coupled with the increase in the number of new journals reporting new results in the field the need for a publication that is continuously providing reviews is urgent The goal of Biotechnology Annual Review is to fill this gap Reviewed topics will include biotechnology applications in medicine agriculture marine biology industry bioremediation and the environment Fundamental problems dealing with enhancing the technical knowledge encountering biotechnology utilization regardless of the field of application will be emphasized Other issues dealing with policy and regulation of biotechnology as well as the problems of development in developing countries as related to biotechnology will be included in the various issues The Editorial Board of Biotechnology Annual Review encourages suggestions and contributions of articles from industry or from academic institutions that would constitute a comprehensive covering of a relevant topic in biotechnology Proposals for contributions and or suggestions for topics for future volumes in this series should be sent to the Editor Professor M Raafat El Gewely Department of Biotechnology Institute of Medical Biology University of Troms 9037 Troms Norway Tel 47 77 644654 Fax 47 77 645350

The Pediatric Lung R.W. Wilmott, 2012-12-06 Focussed specifically on children and pediatric respiratory diseases The Pediatric Lung reviews the current status of pharmacological therapy for asthma viral pneumonia cystic fibrosis bronchopulmonary dysplasia and acute respiratory failure A review of aerosol delivery systems in children and an up to date treatise on mucolytic agents is also included The chapters are written by leading specialists in the field and summarize the latest developments in pediatric pulmonology as well as covering a comprehensive range of respiratory diseases in children Pediatric pulmonologists allergologists intensivists neonatologists and general pediatricians will find The Pediatric Lung an invaluable source of reference Clinicians will be particularly interested in the new information concerning aerosol delivery systems gene therapy for cystic fibrosis new modalities of therapy for asthma the emerging role of nitric oxide and a treatise

on modern mycolytic agents **Reviews of Physiology, Biochemistry and Pharmacology 151** Susan G Amara, Ernst Bamberg, H. Grunicke, Reinhard Jahn, W.J. Lederer, Atsushi Miyajima, H. Murer, Stefan Offermanns, G. Schultz, M. Schweiger, 2007-05-02 H Wegele L M ller and J Buchner Hsp70 and Hsp90 A Relay Team for Protein Folding R Sch lein The Early Stages of the Intracellular Transport of Membrane Proteins Clinical and Pharmacological Implications L Schild The Epithelial Sodium Channel From Molecule to Disease **Diet and Exercise in Cystic Fibrosis** Ronald Ross Watson, 2014-07-29 Diet and Exercise in Cystic Fibrosis a unique reference edited by distinguished and internationally recognized nutritionist and immunologist Ronald Ross Watson fills the gap in the current dietary modalities aimed at controlling cystic fibrosis Using expert evaluation on the latest studies of the role of food and exercise in lifelong management of cystic fibrosis this valuable resource shows how to maintain intestinal hepatic and pulmonary high quality function for improving quality of life for those with cystic fibrosis A helpful tool for researchers and clinicians alike this reference helps refine research targets and provides the beginning of a structured dietary management scheme for those with cystic fibrosis Provides a detailed resource that reviews the health problems occurring in Cystic Fibrosis relative to dietary complementary and alternative therapies Contains expert evaluation on the role of foods and exercise for lifelong management of Cystic Fibrosis to maintain intestinal hepatic and pulmonary high quality function for improved quality of life Defines and evaluates various nutritional and dietary approaches to the unique problems of those with Cystic Fibrosis

Cystic Fibrosis in the 21st Century Andrew Bush, Eric W. F. W. Alton, J.C. Davies, U. Griesenbach, A. Jaffé, 2006 Cystic fibrosis used to be thought of as a respiratory and digestive disease with a uniformly and rapidly fatal outcome The spectrum of the disease has broadened into the mild atypical case presenting in middle age with the potential for complications in virtually every system of the body In the past few years there has been an explosion of knowledge of the basic science of the defect The editors have therefore invited the leading scientists and clinicians in the field of cystic fibrosis to describe the recent advances in this disease Although there are many Recent Advances texts previous books have been selective in their choice of topics This book is the first to cover the entire field of this complex disease and encompasses the rapidly moving topics of the basic molecular and cellular biology as well as the recent multi system multi disciplinary advances in the clinical care of patients The authors have been charged with writing only about new developments and not to rehash old literature The bulk of the references is therefore less than five years old This book addresses all professionals who treat cystic fibrosis and want to have an update of new findings in the field particularly of those outside their immediate specialisation It will also be useful for basic researchers interested in related scientific areas and the clinical context of their work *Cellular, Molecular, and Environmental Contribution in Cardiac Remodeling* Asim K. Duttaroy, Rahul Mallick, 2024-04-16 Cellular Molecular and Environmental Contribution in Cardiac Remodeling From Lab Bench to Clinical Perspective consolidates the most recent research advances on cellular molecular biochemical and heterogeneous factors contributing to the physiological

and pathological cardiac remodeling elucidating their mechanisms of action and the clinical outcomes of cardiac remodeling. It extensively covers the factors determining cardiac remodeling including cardiomyocyte regeneration, cardiac stem cells and their therapeutic potential, cardiac resident pericytes, the role of natural bioactive compounds in cardiac remodeling, chronic cardiac adaptations to exercise and more. This book provides basic science researchers and clinical investigators in cardiology with a current and comprehensive resource on molecular mechanisms and contributing factors to cardiac remodeling and its effects and impacts on heart health. New research areas for the future aimed at preventing limiting and reversing bad remodeling are also discussed. Provides a concise summary of recent developments in cardiac remodeling research combining novel information and the latest data published in this field. Discusses not only cellular and molecular factors impacting cardiac remodeling but also environmental contributions such as lifestyle and exercise. Identifies areas for future research and potential novel strategies for translating basic research knowledge to applications in patients.

Respiratory Infections Lionel Mandell, Mark Woodhead, Santiago Ewig, Antoni Torres, 2006-10-27. The aim of the volume is to provide an authoritative and international treatise bringing together current knowledge in the field of respiratory infection. The book will be organised by presentation rather than causative organism, a differentiating feature from the existing competition and will be divided into four parts: General Issues, Community acquired Infections, Nosocomial Infections and Respiratory Infection in Immunocompromised Patients. Each chapter will conclude with a summary highlighting practical take home messages regarding patient management for the reader. It will be highly illustrated including colour plates where appropriate. The principal market will be pulmonologists with a specialist interest in this area and infectious disease specialists but that the text will also be of interest to clinical researchers and a useful library reference. *Advances in*

Mechanisms of Renal Fibrosis Hui Y. Lan, David J. Nikolic-Paterson, 2018-07-26. Scarring of the glomerular and tubulointerstitial compartments is a hallmark of progressive kidney disease. Renal fibrosis involves a complex interplay between kidney cells, leukocytes and fibroblasts in which transforming growth factor TGF plays a key role. This eBook provides a comprehensive update on TGF signalling pathways and introduces a range of cellular and molecular mechanisms involved in renal fibrosis both upstream and downstream of TGF. The wide variety of potential new targets described herein bodes well for the future development of effective therapies to tackle the major clinical problem of progressive renal fibrosis.

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Fibrogenesis Cellular And Molecular Basis Introduction

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