Molecular And Cell Biology Of Liver Fibrogenesis

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Fibrogenesis deepens a reader's theoretical expertise in gastrointestinal stem cell biology. It furthers scientists' understanding of gastrointestinal stem cells and, most importantly, the molecular function of cells, and is proof of the increasing maturation of the fields of regenerative and molecular medicine. Reviews include: Therapeutic cloning and tissue engineering to treat liver fibrosis and other organelles; crosstalk between fibrogenic pathways; inhibition of LX-2 cell proliferation and expression of pro-fibrotic markers, and reduced liver fibrosis in the miR-122 KO mice. Collectively, this study provides a new mechanism for the development of fibrotic diseases involving lung, liver, kidney, heart, blood vessels, and more. The relevance and significance of inflammatory cytokines, chemokines, transcriptional factors, fibrillogenic molecules, signaling cascade, and matrix remodeling in fibrogenesis are explained in depth, providing the reader with current and updated information.

**Molecular Pathology of Liver Diseases**

Sethabutr P. S.; Mongkol 2010-12-14 Cellular and Molecular Pathology of the Liver is extensive, complex and ranges from the understanding the basic molecular mechanisms that dictate everything from liver homeostasis to liver disease. Molecular pathology of the liver is complicated due to some of the important functions inherent unique to the liver, including its innate ability to regenerate and the multitude of functions it plays for the well-being of an organism. With all this in mind, Molecular Pathology of Liver Diseases is organized in different sections, which will coherently and cohesively present the molecular basis of hepatic fibrosis and pathology. The first two sections are key to understanding the liver anatomy and physiology at a cellular level and go on to define the molecular mechanisms in various liver cell types. These sections also cover the existing paradigms in liver development, regeneration and growth. The next section is key to understanding the Molecular Pathology unique to liver diseases and associated phenotypes. The final sections are geared towards the existing paradigms in liver development, regeneration and growth. This important reference describes, in detail and didactically, the cellular and molecular events that are conducive to fibrosis that leads to cirrhosis, hepatic cirrhosis and death. Along with the shrinking tumors in the CCL2 nab treated liver, CCL2 nab also activated natural killer (NK) cells and increased their cytotoxicity toward tumor cells. This is the most comprehensive clinical reference ever on hepatocellular carcinoma. The chapters in this book provide a detailed review of the molecular mechanisms involved in the initiation, progression, and metastasis of hepatocellular carcinoma is critical for developing more effective therapeutic strategies. The three editors are Ali (biochemistry, Deemed U., New Delhi, India), Scott L. Friedman (division of liver diseases, Mount Sinai School of Medicine, New York), and Derek A. Mann (molecular biology, Southampton U. Hospital, UK). Distributed in the US by Enfield. Annotation: 2006 Book News, Inc., Portland, OR (booknews.com).

**Cellular Signal Transduction in Toxicology and Pharmacology**

Jaime W. Bory 2019-04-16 Cellular signal transduction is a topic that has been extensively studied over the years and is the focus of this book. It is divided into three sections that cover the molecular, biochemical, and bioinformatic analysis. We demonstrated that the increased expression of the chemokine CCL2 in the liver is one of the causes of liver inflammation upon deprivation of miR-122. Blocking CCL2 using specific neutralizing antibody (CCL2 ab) ameliorate liver inflammation and tumorigenesis through decreasing the population of (CCL2+ Gr1- cells) and their corresponding downstream pathways such as the IL-6-Stat3-cMYC axis and TNF-alpha-AP-1-p65 axis;Takahashi et al. Along with the shrinking tumors in the CCL2 nab treated liver, CCL2 nab also activated natural killer (NK) cells and increased their cytotoxicity toward tumor cells.


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Trends in Chemotherapy Research. Margaret D. Weber 2005 Cancer is a word that rightly strikes fear into the collective heart of humanity. It is a brutally indiscriminate killer and incurable (to date) disease. Able to infest any part of the body, from the brain to the bones to the lungs and liver, cancer seemingly mocks the inability to eliminate it. Treatment for cancer varies depending on the severity and type of neoplasm the patient has. The most well-known of these responses is chemotherapy, which involves the use of chemicals. In order to stem the spread of a patient’s cancer, chemotherapy has the patient undergo a series of doses aimed at killing the cancerous cells. Unfortunately, the chemicals can also destroy healthy cells, particularly those that divide quickly. This action leads to side effects such as hair loss, fatigue, nausea, and anemia. Even though the treatments may be of an overall benefit in eliminating or slowing cancer, the period of treatment is often an arduous one for the patient. Modern research has led to a virtual new era in chemotherapy with target drugs. This book brings together the latest research results in the fast moving field.

Molecules, Systems and Signaling in Liver Injury. Wen-Xing Ding 2017-08-02 This essential volume presents comprehensive information on cell death and autophagy in liver diseases, including the role and molecular signaling pathways of cell death in alcohol and non-alcoholic fatty liver disease, bile acids, hepatitis C virus and drug-induced liver injury. The book starts with a discussion of lipotoxicity in non-parenchymal cells, followed by a discussion of cell death and autophagy in cholangiocytes, hepatic stellate cells and Kupffer cells in hepatic biliary diseases, fibrosis and liver inflammation. The book also covers Bcl-2 family proteins, beta-catenin and HMGB1 induced liver injury. The Cell Death in Biology and Diseases series has recruited world experts ranging from basic scientists to clinicians on cell death in liver diseases. Likewise the contributors of this volume are leaders in their fields with worldwide expertise and perspectives. Molecular, Systems and Signaling in Liver Injury is an essential companion to Hepatocytes and Non-Parenchymal Cells and Diseases. It is beneficial for both clinicians and basic scientists and is relevant to those working on drug discovery for preventing and treating liver diseases by targeting cell death and autophagy pathways.

State of the Art of Hepatology. Hans Popper 2004-06-10 In honour of Hans Popper’s 100th birthday

Stem Cells and Cancer in Hepatology. Yun-Wen Zheng 2018-05-18 Stem Cells and Cancer in Hepatology: From the Essentials to Application offers basic scientists and clinicians in the fields of stem cells, hepatology and oncology an overview of the interaction between liver biology, stem cells and cancer. It discusses how the liver performs regeneration and repair, the role stem cells play in these processes, and the mechanisms by which liver cancers are initiated and developed. As the field of stem cells and cancer stem cells in hepatology is new and dynamic, thus making it difficult for researchers and clinicians to understand the most relevant historic and novel studies, this volume addresses that challenge. Addresses both the basic and clinical perspectives of the topic, including sections on normal and cancer stem cells of the liver Provides coverage of the molecular mechanisms of liver development, the proliferation of hepatic progenitor cells during development, epithelial cell plasticity, generation of hepatocytes by transdifferentiation, liver tissue engineering, and more Presents a study of hepatic stem cells that will help readers understand critical events during development, stem cell differentiation towards functional liver cell fate, and tumor initiation

Obesity, Fatty Liver and Liver Cancer. Jun Yu 2018-06-28 This volume covers a state-of-the-art illustration of recent discoveries concerning obesity-related fatty liver diseases and liver cancer. The contents are extensive and comprehensive. It brings important topics in the field all together under one umbrella, from epidemiology and etiology, molecular pathogenesis, cellular biology, epigenetics, immunology, microbiology, animal models to therapeutic approaches and treatments. All the book contributors are leading experts in the field. It will appeal to researchers, clinicians and graduate students in obesity, fatty liver diseases, Giliver cancer field. It may also yield benefits for pharmaceutical companies with regard to drug discovery.

Cellular and Molecular Mechanisms Underlying the Pathogenesis of Hepatic Fibrosis. Ralf Weiskirchen 2020 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.