

Molecular Pathogenesis of Cholestasis

Abstract Cholestasis is a clinical entity characterized by a decrease in bile acid excretion. It can be a symptom of various diseases, including liver and bile duct diseases, and can also be a primary defect of bile acid synthesis or transport. The molecular pathogenesis of cholestasis is complex and involves multiple genes and pathways. This review discusses the molecular pathogenesis of cholestasis, focusing on the role of bile acid synthesis and transport. The review is divided into two main sections: primary defects of bile acid synthesis and primary defects of bile acid transport. The primary defects of bile acid synthesis include defects in the enzymes involved in the synthesis of bile acids, such as *UGT1A1*, *UGT1A2*, *UGT1A3*, *UGT1A4*, *UGT1A5*, *UGT1A6*, *UGT1A7*, *UGT1A8*, *UGT1A9*, *UGT1A10*, *UGT1A11*, *UGT1A12*, *UGT1A13*, *UGT1A14*, *UGT1A15*, *UGT1A16*, *UGT1A17*, *UGT1A18*, *UGT1A19*, *UGT1A20*, *UGT1A21*, *UGT1A22*, *UGT1A23*, *UGT1A24*, *UGT1A25*, *UGT1A26*, *UGT1A27*, *UGT1A28*, *UGT1A29*, *UGT1A30*, *UGT1A31*, *UGT1A32*, *UGT1A33*, *UGT1A34*, *UGT1A35*, *UGT1A36*, *UGT1A37*, *UGT1A38*, *UGT1A39*, *UGT1A40*, *UGT1A41*, *UGT1A42*, *UGT1A43*, *UGT1A44*, *UGT1A45*, *UGT1A46*, *UGT1A47*, *UGT1A48*, *UGT1A49*, *UGT1A50*, *UGT1A51*, *UGT1A52*, *UGT1A53*, *UGT1A54*, *UGT1A55*, *UGT1A56*, *UGT1A57*, *UGT1A58*, *UGT1A59*, *UGT1A60*, *UGT1A61*, *UGT1A62*, *UGT1A63*, *UGT1A64*, *UGT1A65*, *UGT1A66*, *UGT1A67*, *UGT1A68*, *UGT1A69*, *UGT1A70*, *UGT1A71*, *UGT1A72*, *UGT1A73*, *UGT1A74*, *UGT1A75*, *UGT1A76*, *UGT1A77*, *UGT1A78*, *UGT1A79*, *UGT1A80*, *UGT1A81*, *UGT1A82*, *UGT1A83*, *UGT1A84*, *UGT1A85*, *UGT1A86*, *UGT1A87*, *UGT1A88*, *UGT1A89*, *UGT1A90*, *UGT1A91*, *UGT1A92*, *UGT1A93*, *UGT1A94*, *UGT1A95*, *UGT1A96*, *UGT1A97*, *UGT1A98*, *UGT1A99*, *UGT1A100*. The primary defects of bile acid transport include defects in the transporters involved in the transport of bile acids, such as *ABCG5*, *ABCG8*, *ABCA8*, *ABCA1*, *ABCA2*, *ABCA3*, *ABCA4*, *ABCA5*, *ABCA6*, *ABCA7*, *ABCA8*, *ABCA9*, *ABCA10*, *ABCA11*, *ABCA12*, *ABCA13*, *ABCA14*, *ABCA15*, *ABCA16*, *ABCA17*, *ABCA18*, *ABCA19*, *ABCA20*, *ABCA21*, *ABCA22*, *ABCA23*, *ABCA24*, *ABCA25*, *ABCA26*, *ABCA27*, *ABCA28*, *ABCA29*, *ABCA30*, *ABCA31*, *ABCA32*, *ABCA33*, *ABCA34*, *ABCA35*, *ABCA36*, *ABCA37*, *ABCA38*, *ABCA39*, *ABCA40*, *ABCA41*, *ABCA42*, *ABCA43*, *ABCA44*, *ABCA45*, *ABCA46*, *ABCA47*, *ABCA48*, *ABCA49*, *ABCA50*, *ABCA51*, *ABCA52*, *ABCA53*, *ABCA54*, *ABCA55*, *ABCA56*, *ABCA57*, *ABCA58*, *ABCA59*, *ABCA60*, *ABCA61*, *ABCA62*, *ABCA63*, *ABCA64*, *ABCA65*, *ABCA66*, *ABCA67*, *ABCA68*, *ABCA69*, *ABCA70*, *ABCA71*, *ABCA72*, *ABCA73*, *ABCA74*, *ABCA75*, *ABCA76*, *ABCA77*, *ABCA78*, *ABCA79*, *ABCA80*, *ABCA81*, *ABCA82*, *ABCA83*, *ABCA84*, *ABCA85*, *ABCA86*, *ABCA87*, *ABCA88*, *ABCA89*, *ABCA90*, *ABCA91*, *ABCA92*, *ABCA93*, *ABCA94*, *ABCA95*, *ABCA96*, *ABCA97*, *ABCA98*, *ABCA99*, *ABCA100*. The review also discusses the role of bile acid transporters in the regulation of bile acid synthesis and transport. The review concludes with a summary of the molecular pathogenesis of cholestasis and the need for further research.

Molecular Pathogenesis Of Cholestasis

Regina Gail Linville



Molecular Pathogenesis Of Cholestasis:

Molecular Pathogenesis of Cholestasis Michael Trauner, Peter L. M. Jansen, 2004 Knowledge of hepatobiliary transport is increasing rapidly This book provides a cutting edge overview of hepatobiliary transport and the molecular pathogenesis of cholestasis Topics range from basic mechanisms of transport and regulation to general molecular and cellular concepts of cholestatic liver injury to specific molecular mechanisms of hereditary and acquired cholestatic liver injury their complications and treatment Basic researchers academic physicians and students in hepatology genetics molecular and cell biology pharmacology pathology gastroenterology and endocrinology will find this book instructive and stimulating

Hepatobiliary Transport: From Bench to Bedside S. Matern, J.L. Boyer, D. Keppler, P.J. Meier-Abt, 2001-12-31 There has been a tremendous amount of scientific progress in our understanding of the molecular mechanisms of transport processes in the liver within the last few years Cloning of various members of organic anion and cation transporters has provided the necessary tools to study their regulation under physiological and pathophysiological conditions and has advanced our knowledge about bile formation Mutations of various hepatic organic anion transporters have been identified in humans as hereditary defects leading to the heterogeneous syndrome of progressive familial intrahepatic cholestasis PFIC Various mouse models including knockout animals have given us the opportunity to gain insight into lipid transport by the liver and the genetics of cholesterol gallstone formation The physiology of bile duct cells and the molecular mechanisms leading to various cholangiopathies have been a main scientific focus in hepatology in recent years Drug targeting to the liver by hepatic organic anion transporters represents an attractive way of selective delivery of pharmaceutical agents in humans Ursodeoxycholic acid is successfully used in the treatment of patients with chronic cholestatic liver disease and major advances have been made in understanding its mode of action in liver and bile duct cells This book the proceedings of the Falk Workshop held in Aachen Germany on 25-26 January 2001 contains chapters on all important aspects of biliary transport by well known experts in this field It is an essential resource for new developments in the field of biliary transport both in basic science and clinical medicine

Practical Hepatic Pathology: A Diagnostic Approach E-Book Romil Saxena, 2011-02-11 Practical Hepatic Pathology a new volume in the new Pattern Recognition series offers you a practical guide to diagnosing every challenging liver biopsy that you encounter in your daily practice Dr Romil Saxena presents diagnoses according to a pattern based organization that guides you from a histological pattern of injury through the appropriate work up around the pitfalls and to the best diagnosis Lavish full color images capture key hepatic pathology patterns of injury pathognomonic features and common variations of all major liver diseases and hepatic neoplasms No other single source delivers the practical hands on information you need to solve even the toughest diagnostic challenges in liver biopsies Recognize the basic patterns of liver injury through an algorithmic approach and establish diagnosis by a pattern based visual index present at the beginning of the book Evaluate and interpret biopsy samples using

superb high quality full color images that illustrate pathognomonic features and common variations Get comprehensive information on major adult and childhood liver diseases hepatic neoplasms and pre neoplastic nodules including clinical features laboratory tests imaging findings and differential diagnosis Understand the pathology and practice of liver transplantation with coverage of the clinical aspects of this procedure *Liver Disease in Children* Frederick J. Suchy, Ronald J. Sokol, William F. Balistreri, 2001 This is the definitive book on pediatric liver disease providing extensive well edited information that is not easily accessible or available in other textbooks Read comprehensive information explaining the pathophysiology clinical and laboratory diagnosis and clinical manifestations of liver disease A must have for those interested in this rapidly growing subspecialty in pediatrics A Brandon Hill recommended title **Bile Acids and Cholestasis** G. Paumgartner, D. Keppler, 1999-06-30 Since the last International Bile Acid Meeting in Freiburg in 1996 considerable progress has been made in several areas of bile acid research The different pathways of bile acid synthesis and their regulation have been further characterized The molecular mechanisms for biliary secretion of bile acids have been elucidated and genetic defects of bile acid transport have been defined Injurious as well as protective effects of different bile acids on the liver have been further studied Finally the beneficial effects of ursodeoxycholic acid in cholestatic liver diseases have been substantiated and the potential mechanisms of action have been explored This book the proceedings of the Falk Symposium No 108 XV International Bile Acid Meeting held in Titisee Germany October 12 13 1998 is dedicated to both basic and clinical aspects of bile acid research with a focus on bile acids and cholestasis **Cumulated Index Medicus**, 1998 *Vanishing Bile Duct Syndrome - Pathophysiology and Treatment* D. Alvaro, A. Benedetti, M. Strazzabosco, 1997 Vanishing bile duct syndrome comprises a number of chronic cholestatic diseases caused by primary immunological and functional damage to the biliary epithelium Important advances have recently been made in the biology physiology and treatment of vanishing bile duct syndrome In particular recent progress in the biology and physiology of the intrahepatic biliary epithelium has added considerably to the current understanding of the pathophysiology of this syndrome *Zakim and Boyer's Hepatology* Thomas D. Boyer, Keith D Lindor, 2016-12-13 Get the authoritative up to date information you need on liver disease from the 7th Edition of the most trusted reference worldwide Covering both basic science and recent clinical developments this revised edition by Drs Arun J Sanyal Thomas D Boyer Norah A Terrault and Keith D Lindor provides an in depth comprehensive look at the pathophysiology diagnostic and treatment information related to the liver More than 1 100 figures and tables many new and in full color highlight completely updated content throughout Expert international authorship and comprehensive easy to access information makes this edition the gold standard in the field of hepatology Includes new information on the rapid changes in treatment paradigms for acute liver failure the latest treatments for primary biliary cholangitis full coverage of the gut microbiome and its role in liver disease the newest developments in drug induced liver injury and changes in hepatitis C virus treatment and hot button concerns about access to care New summary

boxes at the end of each chapter and a newly streamlined table of contents make it easier to find and understand the information you're looking for. Hundreds of brand new illustrations clearly present key aspects of liver disease. **Update on Hepatobiliary Diseases 1996** S.K. Lam, G. Paumgartner, B. Wang, 1996. This book, the proceedings of Falk Symposium 90 held in Hong Kong February 29-March 1, 1996, presents the most recent advances in all major fields of hepatology. World experts discuss basic and clinical aspects of viral hepatitis, toxic, metabolic, and cholestatic liver diseases, liver cirrhosis, hepatocellular carcinoma, gallstone disease, and liver transplantation. In the two sections devoted to viral hepatitis, special attention is given to hepatitis C. Besides interferon, new antiviral therapies are discussed. In the section on toxic and metabolic liver diseases, besides drug-induced liver injuries and inborn errors of metabolism, alcoholic liver disease is of special interest. New interventional treatments for portal hypertension and ascites are discussed in the section on cirrhosis. In the section on hepatocellular carcinoma, different therapeutic strategies are compared. An update on pathogenesis and treatment of gallstone disease is also included. The book concludes with a section addressing the newest trends in liver transplantation. Thus, this book presents the most complete update on hepatobiliary diseases in Asia in 1996. *Bile Acids and Hepatobiliary Diseases - Basic Research and Clinical Application* G. Paumgartner, A. Stiehl, W. Gerok, 1997-06-30. Since the last International Bile Acid Meeting in San Diego in 1994, new advances have been made in the understanding of bile acid metabolism and transport. The cytotoxic as well as the therapeutic effects of specific bile acids have been further explored, and the beneficial effects of ursodeoxycholic acid in various chronic cholestatic conditions have been substantiated. Much basic and clinical research has been conducted to unravel the underlying mechanisms of action. This volume, the proceedings of Falk Symposium No. 93, XIV International Bile Acid Meeting held in Freiburg im Breisgau, Germany, October 22-24, 1996, is dedicated to both basic and clinical aspects of bile acid research related to the role of bile acids in hepatobiliary diseases.

Comprehensive Clinical Hepatology John G. O'Grady, John R. Lake, Peter D. Howdle, 2000. This clinically focused single volume text is extensively illustrated in color. It is concise yet comprehensive and is designed to meet the needs of fellows and residents studying hepatology and gastroenterology. Each chapter is written by an expert in the field and presents an international perspective of the subject. This book provides a fresh and innovative look at the broad spectrum of modern hepatology, including established practices and new techniques in a clinically focused format. It is split into 4 main sections: the first describes the structure and function of the normal liver; the second deals with the full range of clinical entities that denote liver disease; the third section presents a series of chapters on specific hepatic diseases, including up-to-date coverage on viral hepatitis and HIV infection; the final section provides comprehensive coverage of the rapidly changing field of hepatic transplantation. The consistent structure, integration of the basic science, fantastic artwork, program accessibility of the text, and clinical focus of this book make it a must for all trainee and practising specialists in hepatology. Clinically focused with basic science integrated throughout, reflects the way physicians practice. Comprehensive coverage includes all areas.

necessary when diagnosing treating and managing a patient Internationally relevant Ensures that the global best practice forms the basis of the text and that individual chapters are written by the freshest most energetic names on the international scene Fantastic full colour artwork program aids the reader understand difficult concepts using a visual format Concisely and consistently written ensuring that it is not just an encyclopaedic collection of individual academic articles each with a different focus

Effects of Excess Selenium on the Health and Reproduction of White Sturgeon (Acipenser Transmontanus) Regina Gail Linville,2006

Blumgart's Surgery of the Liver, Pancreas and Biliary Tract E-Book William R. Jarnagin,2016-10-10 Extensively revised with new illustrations new clinical photos this classic text remains the most comprehensive and up to date resource on surgery of the hepatobiliary and pancreatic region Dr William Jarnagin and his team of internationally recognized surgeons continue the Blumgart s tradition of excellence bringing you the latest advances in diagnostic and surgical techniques You ll find updates on the newest minimally invasive surgeries new interventional diagnostic techniques and complete coverage of all relevant diseases including those seen in the tropics Considers all worldwide opinions and approaches to management and includes key data on surgical outcomes to better inform your clinical decision making Covers exactly what you need to know balancing basic science with information on clinical practice Presents cutting edge guidance on pathology diagnostics surgery and non operative intervention of the liver biliary tract and pancreas in a single comprehensive reference Covers the most recent non surgical therapies for pancreatic cancer microwave ablation and other emerging technologies Brings you up to date with recent developments in transplantation minimally invasive surgery percutaneous devices pre and post care blood transfusion and surgical techniques for the spleen Features an extensively revised art and illustration program with new anatomical line drawings including hundreds now in color more than 750 new clinical photos more schematic diagrams that summarize information and new graphs and algorithms throughout

Multiphoton Microscopy in the Biomedical Sciences ,2007

Fetal and Neonatal Physiology Richard Alan Polin,William W. Fox,Steven H. Abman,2004 Here s today s most encyclopedic in depth compendium of knowledge on the normal and abnormal physiology of the fetus and neonate Over 270 international authorities detail the unique characteristics that distinguish fetal and neonatal physiology from the physiology of adults and where appropriate address the pathophysiology and clinical management of selected neonatal diseases

Liver Biopsy Interpretation Peter Joseph Scheuer,Jay H. Lefkowitz,2005 Examines the pathologic changes in primary liver disease as well as systemic diseases affecting the liver More than 400 illustrations now in full color depict the appearance of every condition Correlates histopathologic features with clinical features to describe how pathology affects the diagnosis and management of liver disease and helps readers resolve their most difficult diagnostic questions more quickly with copious technical tips and diagnostic pearls based on Drs Scheuer and Lefkowitz s extensive experience Examines all aspects of liver pathology normal hepatitis childhood diseases and neoplasms

Surgery of the Liver and Biliary Tract L. H. Blumgart,Yuman Fong,2000

The new 3rd Edition of the classic definitive reference *Surgery of the Liver* emerging techniques for non surgical treatment of tumors developments in liver transplantation and greater emphasis on laparoscopic techniques A CD ROM that incorporates video sequences of operative techniques and a library of many of the line drawings in full color accompanies the text **BMJ**, 2002 *OB/GYN Hospital Medicine: Principles and Practice* Jennifer Butler, Alpesh Amin, Laura Fitzmaurice, Christine Kim, 2018-12-22 A complete guide to making a successful OB GYN Hospital Medicine program a reality This authoritative text delivers a complete evidence based blueprint clarifying every aspect of OB GYN Hospital Medicine Encompassing clinical practice as well as program development and business models the book takes physicians nurses administrators and staff through the necessary steps to start and successfully run OB GYN hospitalist programs Readers will also benefit from an efficient approach to managing OB GYN emergencies which includes valuable guidance for physicians and physician extenders working in labor and delivery and ERs ICUs Utilizing a cohesive 3 part organization the book begins with an insightful overview of the OB GYN Hospital Medicine specialty then explores related healthcare system issues and the full range of obstetric clinical conditions from asthma in pregnancy to preterm labor Finally an essential review of fundamental gynecologic topics such as pelvic pain is provided along with in depth coverage of modern OB GYN Hospital Medicine procedures Taken together this innovative text represents the definitive introduction to the OB GYN hospitalist speciality one that no hospital should be without Features A focus on accessible high yield medical education illuminates the burgeoning field of OB GYN Hospital Medicine Practical turnkey coverage of OB GYN Hospital Medicine and its successful implementation is designed to optimize OB GYN practice and enhance patient care Outstanding chapter pedagogy includes learning objectives clinical case presentations key patient hand off points and abundant clinical images and illustrations

Sleisenger & Fordtran's Gastrointestinal and Liver Disease Marvin H. Sleisenger, 2006 Provide evidence based perspectives on all clinically relevant topics explaining step by step how to apply the latest advances in practice Succinct yet comprehensive discussions provide just the right amount of clinical detail Plus a consistent organization and full color art program enable you to quickly and easily access needed information Offers more than 1 000 illustrations photographs and tables 400 in full color that promote a visual grasp of the material Presents coverage of the hottest topics in today s practice including GERD non alcoholic fatty liver disease ulcerative colitis and Barretts esophagus as well as the psychosocial aspects of gastrointestinal and liver diseases Features four new chapters covering complimentary and alternative medicine palliative care gastrointestinal stromal tumor GIST and eosinophilic disorders plus expanded information on obesity and nutrition

Reviewing **Molecular Pathogenesis Of Cholestasis**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Molecular Pathogenesis Of Cholestasis**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Molecular Pathogenesis Of Cholestasis Introduction

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