

Gut And Liver

Phillipp Hartmann



Gut And Liver:

Gut and the Liver H.E. Blum, Ch. Bode, J. Ch. Bode, R.B. Sartor, 1998-02-28 This book the proceedings of Falk Symposium 100 Gut and the Liver held in Freiburg Germany 29-31 May 1997 comprehensively reviews the physiological and pathophysiological interactions between the intestine and the liver as well as between intestinal and hepatic diseases Apart from the basic aspects of the intestinal microflora and the immune system of the gut gastrointestinal permeability and translocation as well as the contribution of the intestine and the intestinal bacteria to the metabolism of bile acids amino acids and drugs are discussed In addition experimental as well as clinical data demonstrating the significance of gut derived bacterial toxins for the development of liver diseases and the effect of liver diseases on gastrointestinal functions are discussed The major aim of this book therefore is to highlight the interactions between gut and liver at the molecular level as well as in clinical disease

The Microbiome in Hepatobiliary and Intestinal Disease Phillipp Hartmann, 2022-05-04

The Human Gut-Liver-Axis in Health and Disease Aleksander Krag, Torben Hansen, 2018-11-09 The book brings together the current knowledge and future perspectives of the complex physiology and pathophysiology of gut liver interactions in health and disease It provides readers with a unique overview and access to knowledge that cannot be obtained elsewhere The structure is logical and covers all aspect including the normal physiology changes in various liver diseases technology sample collection and various interventions Thus suitable for general reading lookup for specific questions or as a reference book within the area The book allows the reader to access all the knowledge that has been generated within the last 10 years in this field

The Complex Interplay Between Gut-Brain, Gut-Liver, and Liver-Brain Axes Cristina Stasi, 2021-04-06 The Complex Interplay Between Gut Brain Gut Liver and Liver Brain Axes provides current and wide ranging information in the field of gastrointestinal liver and brain interactions that can be used in resolving important clinical issues This book is systematically split into three distinct sections The first section introduces the pathophysiology of the gut brain connection including the causative effect of the interactions between the gut and brain in gastrointestinal and psychiatric neurological disorders and the role of serotonin and its pathways in gastrointestinal disorders The second section examines the pathophysiology of the gut liver connection along with the interactions between gut microbiota and liver in chronic liver diseases with special focus on the role of serotonin and its pathways in hepatic fibrogenesis Finally the third section describes the pathophysiology of the liver brain connection including the role of gut microbiota in hepatic encephalopathy as well as dietary and therapeutic interventions that target the gut microbiome Provides current and wide ranging knowledge in the field of gastrointestinal liver and brain interactions Resolves important clinical issues concerning gut liver and brain interactions Demonstrates advances in the understanding of the pathophysiology of gastrointestinal and liver diseases

Traditional Medicines and Natural Products for Gut-X Axis: Pharmacology, Toxicology and Microbiology in the Context of Drug Discovery and Herbal Medicine Use, volume II

Xiaoxiao Yang, Yi Wu, Na Sun, 2025-03-28 The gut is one of the most versatile organs for humans and animals. In recent years, more and more research has revealed that the gut has close relationships with many other organs such as the liver, kidneys, lungs, brain, and breasts. Gut microbes have close relationships with their hosts and play an important role in the physiological activities of humans and animals. More and more research has revealed that gut microbes can adjust the functions of the hosts' major organs such as the liver, kidneys, brain, lungs, and breasts. In other words, the Gut X Axis has become a hot research topic in recent years. Herbal medicines have been used globally in the treatment of human and animal diseases for thousands of years. Traditional Chinese herbal medicines such as *Glycyrrhiza* spp and *Astragalus membranaceus* Bunge are examples of botanical drugs that have significant effects on the treatment of immune depression by adjusting the gut microbe. *Silybum marianum*, originally distributed in the Mediterranean and other parts of Southern Europe and Northern Africa, is now widely used to treat various liver diseases and modify the gut microbe. The active natural products in traditional Chinese medicine have also been studied on the Gut X Axis such as *Atractylodes macrocephala* polysaccharide AMP. Therefore, research on the pharmacology, toxicology, microbiology, and action mechanism of traditional medicines and active natural products via the Gut X Axis is essential to better understand their efficacy and to expand the development of drugs for the treatment of clinical diseases.

Gastrointestinal Physiology Menizibeya Osain Welcome, 2018-06-20 This book offers one of the most comprehensive reviews in the field of gastrointestinal (GI) physiology, guiding readers on a journey through the complete digestive tract while also highlighting related organs and glandular systems. It is not solely limited to organ system physiology and related disciplines like anatomy and histology but also examines the molecular and cellular processes that keep the digestive system running. As such, the book provides extensive information on the molecular, cellular, tissue, organ, and system levels of functions in the GI system. Chapters on the roles of the gut as an endocrine, exocrine, and neural organ, as well as its microbiome functions, broaden readers' understanding of the multi-organ networks in the human body. To help illustrate the interconnections between the physiological concepts, principles, and clinical presentations, it outlines clinical examples such as pathologies that link basic science with clinical practice in special clinical correlates sections. Covering both traditional and contemporary topics, it is a valuable resource for biomedical students as well as healthcare and scientific professionals.

Microbiome in Gastrointestinal Cancer Jun Yu, 2023-01-16 This book covers state-of-the-art topics covering evidences that indicate that the gut microbiota can be harnessed for cancer prevention as well as to modulate the efficacy of chemotherapy and immunotherapy. This book includes: 1. characterization of the dysregulated microbiome in gastrointestinal cancers; Chapters 1-6. 2. the molecular mechanism of action of gut microbiota via microbial metabolites and direct interaction with host cancer or immune cells; Chapters 7-11. 3. key methodologies for studying the role of gut microbiota in cancers; Chapters 12-13. 4. the potential application of gut microbes for the prevention and treatment of gastrointestinal cancers; Chapters 14-17. The contributors are international experts in molecular and cellular biology.

microbiology metabolomics bioinformatics and physician scientists to provide in depth reviews of this subject This book provides a rich resource of information on this important topic for graduate students basic researchers and physicians

The microbiome in the development of gastrointestinal diseases Amedeo Amedei ,Ralf Weiskirchen,2025-05-22

This Research Topic wants to collect original and review articles that highlight issues of the gut microbiota in the pathogenesis of gastrointestinal diseases As such this article collection provides a great opportunity to introduce and discuss timely topics in microbiota function in disease and cutting edge research technologies applied in this research area We cordially invite you to contribute original research articles reviews or shorter perspective articles on all aspects related to the theme of The Microbiome in the Development of Gastrointestinal Diseases Expert articles describing mechanistic functional cellular biochemical or general basic or clinical aspects of microbiota functions in disease initiation and progression are highly welcome Relevant topics include but are not limited to Inflammatory bowel disease IBD Irritable bowel syndrome IBS Nonalcoholic fatty liver disease NAFLD Diabetes Celiac disease Gut liver axis Fecal microbiota transfer FMT Functional dyspepsia Pathogenesis of diarrhea Colorectal cancer Microbiota bioimaging Intrinsic and extrinsic factors modulating microbiota Big data analysis of dysbiosis **Methods in Cell Biology** ,2020-05-16 Methods in Cell Biology Volume 158 the latest release in this series highlights new advances in the field with this release covering How to orient cells in micro cavities for high resolution imaging of cytokinesis and lumen formation A body on a chip BOC system for studying gut liver interaction Manipulating cultured mammalian cells for mitosis research Live cell FLIM FRET using a commercially available system A comparative analysis of methods to measure kinetochore microtubule attachment stability A workflow for visualizing human cancer biopsies using large format electron microscopy Isolation of stage specific germ cells using facs in drosophila germarium Computational analysis of filament polymerization dynamics in cytoskeletal networks and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Updated release includes the latest information in this area of study

Gastrointestinal Immunity and Crosstalk with Internal Organs in Fish Nan Wu,Carmen G. Feijoo,Wei-Dan Jiang,Rune

Waagbø,Min Wan,2021-11-25 [Dietary Interventions in Gastrointestinal Diseases](#) Ronald Ross Watson,Victor R Preedy,2019-01-10 Dietary Interventions in Gastrointestinal Diseases Foods Nutrients and Dietary Supplements provides valuable insights into the agents that affect metabolism and other health related conditions in the gastrointestinal system It provides nutritional treatment options for those suffering from gastrointestinal diseases including Crohn s Disease Inflammatory Bowel Disease Ulcerative Colitis and Allergies among others Information is presented on a variety of foods including herbs fruits soy and olive oil thus showing that changes in intake can change antioxidant and disease preventing non nutrients and affect gastrointestinal health and or disease promotion This book serves as a valuable resource for biomedical researchers who focus on identifying the causes of gastrointestinal diseases and food scientists targeting health

related product development Provides information on agents that affect metabolism and other health related conditions in the gastrointestinal tract Explores the impact of composition including differences based on country of origin and processing techniques to highlight compositional differences and their effect on the gastrointestinal tract Addresses the most positive results from dietary interventions using bioactive foods to impact gastrointestinal diseases including reduction of inflammation and improved function of organs *Insights in Nutrition and Food Science Technology* Elena Ibañez,Alejandro Cifuentes,2023-02-08

Gut-Liver Interactions: Basic and Clinical Concepts R. Blumberg,A. Gangl,M. P. Manns,H. Tilg,M. Zeitz,2009-08-29 This book the proceedings of the Falk Symposium No 146 Gut Liver Interactions Basic and Clinical Concepts held in Innsbruck Austria on March 11 12 2005 brings together gastroenterologists and hepatologists both at a clinical and a basic scientific level Topics have been structured in such a way to be of interest to both clinicians and basic scientists The main focus of the book is to highlight the role of the immune system in gut and liver diseases and potential interactions of the gut and the liver respectively Special emphasis is based on the importance of the gut flora in intestinal and also in liver diseases The role of NOD2 is one of the very best examples demonstrating the importance not only in inflammatory bowel diseases but also diseases well beyond this barrier Such intense interactions between gastroenterologists and hepatologists as shown through this book might boost and stimulate scientific ideas and research in other unexpected areas

Microbiota, Nutrition and Stress: Modulators of Immunity Sergey Ponomarev,Isabelle Mack,Alexander Chouker,2023-12-01

The Art and Science of Physiologically-Based Pharmacokinetics Modeling Rodrigo Cristofolletti,Amin Rostami-Hodjegan,2024-07-15 This state of the art text describes the science behind the system and drug dependent components of PBPK models its applications in translational and regulatory science e g guiding drug discovery and development and supporting precision medicine initiatives To incorporate state of the art knowledge each chapter is written by leaders in the field and illustrated by clear case studies Connecting basic and applied science this book explores the potential of PBPK modeling for improving therapeutics and is designed for a wide audience encompassing graduate students as well as biopharmaceutics scientists and clinical pharmacologists Features 1 Provides a basic understanding of the physiologically based pharmacokinetic modeling and its applications 2 Assists the reader in understanding product performance to allow for rapid product development and establish bioequivalence 3 Well constructed content and added value of real examples 4 Illustrates how using available resources via modeling and simulation leads to a reduction in the costs related to drug development which directly affects the costs to patients

The Effect of Diet and Nutrition on Postprandial Metabolism François Mariotti,Dominique Dardevet,2020-11-04 The postprandial period is the metabolic phase that directly follows the ingestion of a meal This period is critical to the handling of nutrients to feed the body throughout the whole day but it is also a time of challenge for the body s metabolism which has to be flexible and adaptable regarding the quantity and the quality of the nutrient intake Changes in postprandial metabolism have been

considered to be potential early markers in the pathophysiological course finally leading to an increased risk of disease development This book aimed to broaden and add to the research on the importance of postprandial metabolism in nutrition The book includes literature reviews that cover the broad state of the art of our knowledge about postprandial metabolism fine original studies of the complex changes in metabolism and the physiological processes that are considered to drive the onset of pathogenesis Finally a series of examples on how nutrient content especially proteins sucrose and lipids can influence the postprandial metabolism over a wide range of phenomena operating during the postprandial period and how they could contribute to tipping the body towards adverse health processes

Microbiome and Metabolome in Diagnosis, Therapy, and other Strategic Applications Joel Faintuch, Salomao Faintuch, 2019-01-03 Microbiome and Metabolome in Diagnosis Therapy and Other Strategic Applications is the first book to simultaneously cover the microbiome and the metabolome in relevant clinical conditions In a pioneering fashion it addresses not only the classic intestinal environment but also the oral gastric lung skin and vaginal microbiome that is in line with the latest investigations Nonbacterial microbiomes such as fungi and viruses are not overlooked and the plasma microbiome is also discussed As plasma brain placenta tumor cells and other sterile fluids and tissues are increasingly recognized to potentially host a microbiome albeit a limited one this is a timely resource The book s editors were fortunate to have the input of renowned collaborators from nearly all continents This is truly an international effort that brings the latest in the field to students and professionals alike Provides comprehensive coverage on diagnosis therapy pharmacotherapy and disease prevention in context of the microbiome and metabolome Focuses on the proposed physiological or pathological conditions Presents an up to date useful reference

A new frontier for traditional medicine research - multi-omics approaches Xian-Jun Fu, Kah Keng Wong, Yiider Tseng, 2023-06-05 *Body Recomposition* Sanjoy Chakraborty, Debasis Bagchi, Tandra Chakraborty, Bernard Downs, Kenneth Blum, 2024-09-30 Obesity is a global pandemic rising beyond the status of a lifestyle disorder and its consequences include impaired metabolism energy disruption and abdominal fat deposition and storage Body Recomposition A Comprehensive and Metabolic Alternative to Weight Loss presents information on body recomposition which emphasizes the approach of losing fat while gaining muscle It contains vast research on topics including factors that influence fat accumulation strategies for weight management healthy diet and eating patterns physical exercise and lifestyle strategies in healthy weight management Features Influence of non alcoholic fatty liver disease NAFLD on stored fat accumulation and its treatment Harnessing the gut microbial arm in combating obesity Roles of leptin ghrelin NPY cortisol and diverse neurotransmitters in appetite suppression and regulation Genetic predisposition and genetic addiction obesity risk assessment and therapies Gut brain axis role in metabolism and body recomposition Efficacy of phytochemicals in weight management and roles of drugs and natural supplements in weight management Importance of physical exercise and manageable lifestyle factors Existing commercial weight loss strategies can fail to achieve and maintain sustainable weight

loss or enhance greater healthy fat loss This book provides an improved alternative for dietitians nutritionists health practitioners and clinicians as well as food and nutrition scientists

Alcoholic/Non-Alcoholic Digestive Diseases

Hitoshi Yoshiji, Kosuke Kaji, 2019-06-11 This book describes the latest advances concerning the molecular mechanisms of and therapeutic strategies for alcohol and non alcohol related digestive diseases Alcohol abuse causes not only liver injury but can harm various organs resulting in esophageal and colorectal cancers GERD pancreatitis etc Similar to alcoholic abuse metabolic syndrome based on obesity and diabetes is also strongly associated with the development of various digestive diseases Although these diseases may be differentiated by the presence or absence of alcohol intake the pathologic findings and pathogenesis reveal a number of similarities This volume covers clinical and basic approaches for esophageal gastric hepatic colorectal and pancreatic diseases associated with alcohol abuse and metabolic syndrome further it discusses the roles of microbiota oxidative stress and apoptosis the critical factors causing alcoholic and metabolic digestive diseases Also it showcases new pathological and therapeutic perspectives in gastric and pancreatic cancers Alcoholic Non Alcoholic Digestive Diseases will provide invaluable information for doctors specializing in gastroenterology and hepatology and researchers seeking new research on digestive diseases based on alcohol consumption and obesity

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