

Intestine Study

Joseph B. Kirsner

The Intestine Ahmed El-Hashash, Eiman Abdel Meguid, 2021-06-15 The intestine is among the leading organs, in which several cutting edge in vitro and in vivo research tools and approaches have recently been developed and used to investigate stem cell biology/function, and the potential applications of stem cells in the treatment of intestinal diseases. These cutting-edge research tools and approaches involve human and murine organoid cultures, genetic editing in vitro and in vivo, human induced pluripotent cell (iPS cell) models of disease, haploid cells for genetic as well as compound screening paradigms, genetically engineered mice, and stem cell transplantation to cure diseases. Stem Cell Innovation in Health and Disease: Volume 1: The Intestine contains two major sections describing cutting edge research for understanding stem cell functions in the intestine, and for developing methods to bring stem cells from bench to bedside; respectively. Each section includes insights ranging from using mouse and human organoid cultures, genetic editing in vitro and in vivo, and human induced pluripotent cells (iPSCs) to study stem cell functions and model intestinal diseases, through the cutting-edge research, including the potential application of iPSCs, ESCs and blood stem cells (stem cell transplants) in the treatment of intestinal diseases/disorders. This volume, therefore, discusses the fact-based promise of stem cells and regenerative medicine in the intestine in the real world. Provides intensive scientific background and most recent information on cutting edge research to understand intestinal stem cell functions and develop methods to bring stem cells from bench to bedside for different intestinal diseases Analyzes the current state, opportunities, and challenges of innovative technologies and stem cells from bench to bed, including organoids and the CRISPR gene editing system in the intestine Contains two major sections describing cutting-edge research for understanding stem cell functions and for developing methods specific to the intestine

Radiological Imaging of the Small Intestine N.C. Gourtsoyiannis, 2013-11-11 Whereas during the past decade endoscopy has become established as the leading means of diagnosis and management of diseases affecting the esophagus, stomach and large bowel, radiology has retained its pre-eminence for the clinical study and evaluation of the small bowel. This book provides unique coverage of all current radiological techniques used to study the small bowel, including not only barium studies and angiography but also cross-sectional methods such as ultrasound and computer tomography as well as nuclear medicine. Emerging techniques such as magnetic resonance imaging are given close consideration, and interventional procedures are dealt with fully. Following an introduction on anatomy, physiology, and pathology pertinent to radiology, the book describes in great detail common and less common congenital and development anomalies, trauma, infectious and inflammatory conditions, and tumors. The radiological accounts are illustrated by unique color photographs of pathological specimens. It is important for all professionals involved in the management of patients with small-bowel disease to be critically informed about the specific advantages as well as the limitations of the various modern imaging techniques now employed for the in vivo morphological evaluation of the small bowel. This comprehensive book provides a timely update of our knowledge in this field and is a welcome addition to our series Medical Radiology; which aims to

provide exhaustive coverage of modern diagnostic radiology. It will be of great interest for general and abdominal radiologists, gastroenterologists, and abdominal surgeons.

Relationships Among the Brain, the Digestive System, and Eating Behavior Institute of Medicine, Food and Nutrition Board, Food Forum, 2015-02-27 On July 9-10, 2014, the Institute of Medicine's Food Forum hosted a public workshop to explore emerging and rapidly developing research on relationships among the brain, the digestive system, and eating behavior. Drawing on expertise from the fields of nutrition and food science, animal and human physiology and behavior, and psychology and psychiatry as well as related fields, the purpose of the workshop was to (1) review current knowledge on the relationship between the brain and eating behavior, explore the interaction between the brain and the digestive system, and consider what is known about the brain's role in eating patterns and consumer choice; (2) evaluate current methods used to determine the impact of food on brain activity and eating behavior; and (3) identify gaps in knowledge and articulate a theoretical framework for future research. *Relationships among the Brain, the Digestive System, and Eating Behavior* summarizes the presentations and discussion of the workshop.

Physiology of the Gastrointestinal Tract, Two Volume Set Hamid M. Said, 2012-07-04 *Physiology of the Gastrointestinal Tract, Fifth Edition* – winner of a 2013 Highly Commended BMA Medical Book Award for Internal Medicine – covers the study of the mechanical, physical, and biochemical functions of the GI Tract while linking the clinical disease or disorder, bridging the gap between clinical and laboratory medicine. The gastrointestinal system is responsible for the breakdown and absorption of various foods and liquids needed to sustain life. Other diseases and disorders treated by clinicians in this area include: food allergies, constipation, chronic liver disease and cirrhosis, gallstones, gastritis, GERD, hemorrhoids, IBS, lactose intolerance, pancreatic, appendicitis, celiac disease, Crohn's disease, peptic ulcer, stomach ulcer, viral hepatitis, colorectal cancer and liver transplants. The new edition is a highly referenced and useful resource for gastroenterologists, physiologists, internists, professional researchers, and instructors teaching courses for clinical and research students. 2013 Highly Commended BMA Medical Book Award for Internal Medicine Discusses the multiple processes governing gastrointestinal function Each section edited by preeminent scientist in the field Updated, four-color illustrations

Intestinal Obstruction, an Experimental Study of the Intoxication in Closed Intestinal Loops ... Lester Reynold Dragstedt, James J. Moorhead, Fred W. Burcky, 1917

Health and the Gut William Olds, 2021-03-31 This title includes a number of Open Access chapters. The study of the intestinal ecosystem of bacteria in the human gut-the gut microbiome-is a new field that is rapidly evolving. This book serves as an introduction to some of the new and exciting research that is being done in this field. Included are chapters that examine the following: - Gut microbiome's roles in the pathogenesis of obesity and autoimmune disease - The effect of nutrition on the richness of the microbial community - The stability of the microbiome to various stressors - Emerging ways to diagnose diseases using the microbiome - Exciting prospects for using these microbes to cure disease This easily accessible reference volume offers

a comprehensive guide to this relatively new field of study. Edited by a researcher from Yale University, *Health and the Gut: The Emerging Role of Intestinal Microbiota in Disease and Therapeutics* is an authoritative and easy-to-use reference, ideal for both researchers in the field and those who wish to gain more information about the impact of gut microbiota on human health.

Physiology of the Gastrointestinal Tract Hamid M. Said, 2018-03-08

Physiology of the Gastrointestinal Tract, Sixth Edition, a Two-Volume set, covers the study of the mechanical, physical and biochemical functions of the GI Tract by linking clinical disease and disorder, thus bridging the gap between clinical and laboratory medicine while also covering breakthroughs in gastroenterology, such as the brain-gut axis and microbiome. Additionally, information is provided at the organism level, including animal models of gastrointestinal disorders and therapeutic possibilities. The book covers a wide range of conditions, from food allergies, constipation, chronic liver disease and IBS, also exploring emerging techniques to diagnose and normalize functions of the GI tract. As a highly referenced book, this is a useful resource for gastroenterologists, physiologists, internists, professional researchers and instructors teaching courses for clinical and research students. Discusses the multiple processes governing gastrointestinal function Presents new information on the brain-gut axis and microbiome Edited by preeminent scientists in the field Includes coverage of issues, such as food allergies, constipation, chronic liver disease, IBS, Crohn's disease, and more

The Intestinal Catarrhs, Being a Clinical Study of Colitis, Appendicitis and Their Allies Edward Thomas Blake, 1905

How Fermented Foods Feed a Healthy Gut Microbiota M. Andrea Azcarate-Peril, Roland R. Arnold, José M. Bruno-Bárcena, 2019-11-28 This book examines the role of fermented foods on human gut health and offers a unique contribution to this rapidly growing area of study. Fermented foods have been consumed by humans for millennia. This method of food preservation provided early humans with beneficial bacteria that re-populated the gut microbiota upon consumption. However, novel methods of production and conservation of food have led to severed ties between the food that modern humans consume and the gut microbiota. As a consequence, there has been a documented increase in the prevalence of autoimmune diseases and obesity, which has been correlated to decreased diversity of gut microbes, while infectious disorders have decreased in the three past decades. With the intention of providing a thorough overview of the relationship between fermented foods, nutrition, and health, the editors have grouped the chapters into three thematic sections: food and their associated microbes, the oral microbiome, and the gut microbiome. After an introduction dedicated to the environmental microbiome, Part I provides an overview of what is currently known about the microbes associated with different foods, and compares traditional forms of food preparation with current industrial techniques in terms of the potential loss of microbial diversity. The chapters in Part 2 explore the oral microbiota as a microbial gatekeeper and main contributor to the gut microbiota. Part 3 introduces beneficial modulators of the gut microbiome starting with the establishment of a healthy gut microbiota during infancy, and continuing with the role of probiotics and prebiotics in health preservation and the imbalances of the gut microbiota. In the final section the editors offer

concluding remarks and provide a view of the future brought by the microbiome research revolution. This study is unique in its emphasis on the convergence of two very relevant fields of research: the field of studies on Lactic Acid Bacteria (LAB) and fermented foods, and microbiome research. The relationship between these fields, as presented by the research in this volume, demonstrates the intimate connection between fermented foods, the oral and gut microbiota, and human health. Although research has been done on the impact of diet on the gut microbiome there are no publications addressing the restorative role of food as microbe provider to the gut microbiota. This novel approach makes the edited volume a key resource for scientific researchers working in this field.

Physiology of the Gastrointestinal Tract Kim E. Barrett, Faye K. Ghishan, Juanita L. Merchant, Hamid M. Said, Jackie D. Wood, 2006-05-10 FROM THE PREFACE: The original purpose of the First Edition of Physiology of the Gastrointestinal Tract to collect in one set of volumes the most current and comprehensive knowledge in our field was also the driving force for the Fourth Edition. The explosion of information at the cellular level, made possible in part by the continued emergence of powerful molecular and cellular techniques, has resulted in a greater degree of revision than that of any other edition. The first section, now titled Basic Cell Physiology and Growth of the GI Tract contains numerous new chapters on topics such as transcriptional regulation, signaling networks in development, apoptosis, and mechanisms in malignancies. Most of the chapters in this section were edited by Juanita L. Merchant. Section II has been renamed Neural Gastroenterology and Motility and has been expanded from seven chapters with rather classic titles to more than twenty chapters encompassing not only the movement of the various parts of the digestive tract but also cell physiology, neural regulation, stress, and the regulation of food intake. Almost all of the chapters were recruited and edited by Jackie D. Wood. The third section is entirely new and contains chapters on Immunology and Inflammation which were edited by Kim E. Barrett. The fourth section on the Physiology of Secretion consists of chapters with familiar titles, but with completely updated information to reflect the advances in our understanding of the cellular processes involved in secretion. The last section on Digestion and Absorption contains new chapters on the intestinal barrier, protein sorting and ion channels along with those focusing on the uptake of specific nutrients. These chapters were recruited and edited by Hamid M. Said and Faye K. Ghishan. · Collected in one set - the most current and comprehensive coverage of gastrointestinal physiology · Information presented in a style that is both readable and understandable · Valuable to the specialized researcher, the clinical gastroenterologist, the teacher, and the student · Features an entirely new section on Immunology and Inflammation · Each section edited by the preeminent scientist in the field

Advances in Intestinal Mucosa Research and Application: 2011 Edition, 2012-01-09 Advances in Intestinal Mucosa Research and Application: 2011 Edition is a ScholarlyPaper™ that delivers timely, authoritative, and intensively focused information about Intestinal Mucosa in a compact format. The editors have built Advances in Intestinal Mucosa Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Intestinal Mucosa in this eBook to be deeper than what you can access anywhere else, as well as

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Atlas of the Pig Gut Romuald Zabielski, Tomasz Skrzypek, 2021-04-21 *Atlas of the Pig Gut: Research and Techniques from Birth to Adulthood* examines the development of the gastrointestinal tract in swine. It focuses on changes occurring during the developmental phase, with an emphasis on the gut that is reflected in alterations of the intestinal mucosa architecture. Led by leading experts in pig digestion research, the book contains descriptions and microphotographs of the most updated research. The changes occurring in the intestine are presented in a comprehensive order, from small magnifications of tissue structures to high magnifications of fragments of epithelium-building cell structures. Additionally, the book highlights the replacement mechanism of epithelial cells during the development of the small intestinal mucosa. This book is the ideal resource for animal science researchers and practitioners. In addition, swine veterinarians and academics will also find it useful due to its helpful, detailed graphics and organized structure. Discusses microscopic techniques for observing changes in the gastrointestinal mucosa structure and guidelines for avoiding common analysis errors Features original micrographs obtained from light, confocal and scanning electron microscopy Provides carefully-worded directions for learning the basic mammalian anatomy and morphology of the gut

Intestinal Immune System Soichiro Miura, Ryota Hokari, Shunsuke Komoto, 2011 These negative regulatory mechanisms of the intestinal immune system are disturbed in certain disease conditions, causing the immunocompetent cells to respond to food components and commensal bacteria by becoming activated and to overproduce inflammatory cytokines and chemokines. These disease conditions include food allergies, such as celiac disease, and the inflammatory bowel diseases, such as ulcerative colitis and Crohn's disease, although their exact etiological mechanisms remain to be revealed. --Book Jacket.

The Small Intestine in Experimental Peritonitis Mikael Ljungdahl, 2000
Origins and Directions of Inflammatory Bowel Disease Joseph B. Kirsner, 2012-12-06 Few human illnesses today are so challenging, medically, scientifically, and socio-economically, as the nonspecific inflammatory bowel diseases (IBD): ulcerative colitis and Crohn's disease. Originating several centuries ago but essentially diseases of the 20th century, often attacking children and young adults, involving all bodily systems as well as the gastrointestinal tract, ulcerative colitis and Crohn's disease have emerged in recent decades as among the more glamorous unsolved diseases, presenting unusual opportunities for insightful clinical and investigative study. Many of the prevailing concepts originated during the early and mid 20th century. The purpose of *Origins and Directions of Inflammatory Bowel Disease* is to review these earlier studies and their evolution from the mystical to the molecular, and guide investigators and physicians through the challenging clinical and scientific maze of IBD.

The Gut Microbiome Ana Maria R. Moise, 2017-10-27 This accessibly written, comprehensive summary of research findings on the gut microbiome and its implications for health and disease—a topic of growing interest and concern—serves as an essential resource for teachers and students. Most people know that the digestive tract contains billions of helpful gut bacteria, but how does the gut microbiome affect our health? What exactly do these bacteria do, and what are the negative effects when these microorganisms are harmed by what we eat and do? What impacts might they have on conditions such as irritable bowel syndrome (IBS), obesity, and autism? This book provides an accessible, holistic introduction to the study of the human gut microbiome and its effects on digestion and disease—one of the newest and most rapidly expanding fields in medicine today. The gut microbiome is known as the forgotten organ because it is not identified as part of the human body per se, yet it has an immense influence on many systems in the body. *The Gut Microbiome: Exploring the Connection between Microbes, Diet, and Health* explains what the microbiome is, the many functions it serves, how it can be either harmed or supported by our actions, and the role it may play in various diseases and in determining our overall health. The book examines the various potential causes of imbalance in the microbiome, such as diet and other lifestyle factors, and then identifies strategies for improving human health by protecting the gut microbiota. The science-based information is detailed but accessible to general readers or students without extensive background knowledge.

The Impact of Food Bioactives on Health Kitty Verhoeckx, Paul Cotter, Iván López-Expósito, Charlotte Kleiveland, Tor Lea, Alan Mackie, Teresa Requena, Dominika Swiatecka, Harry Wichers, 2015-04-29 “Infogest” (Improving Health Properties of Food by Sharing our Knowledge on the Digestive Process) is an EU COST action/network in the domain of Food and Agriculture that will last for 4 years from April 4, 2011. Infogest aims at building an open international network of institutes undertaking multidisciplinary basic research on food digestion gathering scientists from different origins (food scientists, gut physiologists, nutritionists...). The network gathers 70 partners from academia, corresponding to a total of 29 countries. The three main scientific goals are: Identify the beneficial food components released in the gut during digestion; Support the effect of beneficial food components on human health; Promote harmonization of currently used digestion models. Infogest meetings highlighted the need for a publication that would provide researchers with an insight into the advantages and disadvantages associated with the use of respective in vitro and ex vivo assays to evaluate the effects of foods and food bioactives on health. Such assays are particularly important in situations where a large number of foods/bioactives need to be screened rapidly and in a cost effective manner in order to ultimately identify lead foods/bioactives that can be the subject of in vivo assays. The book is an asset to researchers wishing to study the health benefits of their foods and food bioactives of interest and highlights which in vitro/ex vivo assays are of greatest relevance to their goals, what sort of outputs/data can be generated and, as noted above, highlight the strengths and weaknesses of the various assays. It is also an important resource for undergraduate students in the ‘food and health’ arena.

On Infantilism from Chronic Intestinal Infection Christian Archibald Herter, 1908 Herter's infantilism is also called Gee-Herter disease.

Intestinal Tuberculosis, Its Importance, Diagnosis and Treatment Lawrason Brown, Homer L. Sampson, 1926

Biomechanics of the Gastrointestinal Tract Hans Gregersen, 2013-04-18
Biomechanics of the Gastrointestinal Tract is an up-to-date book for researchers on the study of the mechanical properties and the motor system of the gastrointestinal tract. A well-illustrated book, it provides a comprehensive overview to relevant tissue geometry, morphology and biomechanical theory. Separate chapters cover smooth muscle and nerve function including the application to animal and human studies of motility, symptoms and pain, determination of the true resting state, history-dependent properties, and tissue remodelling in disease. Several methods and diagnostic applications such as determination of in vivo length-tension diagrams and multimodal pain testing are completely new but will undoubtedly be used by many in the future. New non-invasive imaging techniques based on ultrasound, MR- and CT-scanning in combination with balloon distension are emerging as the techniques for future in vivo studies.

Intestine Study Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the power of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Intestine Study**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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Intestine Study Introduction

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