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All about Digestion The Digestive System Biology for AP ® Courses The Digestive System Regulation of Gastrointestinal Mucosal Growth Concepts of Biology Learning About the Digestive and Excretory Systems Edible Sea Urchins: Biology and Ecology Digestion and Dyspepsia The Gastrointestinal Circulation Gastrointestinal Physiology 2/E New advances in dietary fibers and their role in metabolic, digestive, and immune health Bioactive Food as Dietary Interventions for Liver and Gastrointestinal Disease Digestive Physiology and Metabolism in Ruminants The Work of the Digestive Glands Digestive System (A True Book: Your Amazing Body) Digestive System The Digestive System Your Digestive System Treating Digestive Disorders from an Endobiogenic Perspective Digestive and Hepatic Aspects of the Rheumatic Diseases, An Issue of Rheumatic Disease Clinics of North America, E-Book Gastrointestinal Physiology Neural Control of Gastrointestinal Function Bacterial Flora in Digestive Disease Mayo Clinic on Digestive Health United States Code Digestive System Gut Feeling and Digestive Health in Nineteenth-Century Literature, History and Culture Contributions from the Biological Laboratories in Princeton University The Journal of General Physiology Gastrointestinal Surgical Techniques in Small Animals Anatomy and Physiology Digestive System Diseases: New Insights for the Healthcare Professional: 2012 Edition Ornithological Biography Relationships Among the Brain, the Digestive System, and Eating Behavior 100 Questions & Answers About Your Digestive Health Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26 The Digestive System Feeding and Digestive Functions in Fishes Fiber Fueled

The Digestive System Feb 27 2024 This is an integrated textbook on the musculoskeletal system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a way appropriate for the early part of the medical course. There is a linked website providing self-assessment material ideal for examination preparation.

Neural Control of Gastrointestinal Function Jul 10 2022 The gastrointestinal tract is a long, muscular tube responsible for the digestion of food, assimilation of nutrients and elimination of waste. This is achieved by secretion of digestive enzymes and absorption from the intestinal lumen, with different regions playing specific roles in the processing of specific nutrients. These regions come into play sequentially as ingested material is moved along the length of the GI tract by contractions of the muscle layers. In some regions like the oesophagus transit it rapid and measured in seconds while in others like the colon transit is measured in hours and even days, commensurate with the relative slow fermentation that takes place in the large bowel. An hierarchy of controls, neural and endocrine, serve to regulate the various cellular targets that exist in the gut wall. These include muscle cells for contraction and epithelial cells for secretion and absorption. However, there are complex interactions between these digestive mechanisms and other mechanisms that regulate blood flow, immune function, endocrine secretion and food intake. These ensure a fine balance between the ostensibly conflicting tasks of digestion and absorption and protection from potentially harmful ingested materials. They match assimilation of nutrients with hunger and satiety and they ensure that regions of the GI tract that are meters apart work together in a coordinated fashion to match these diverse functions to the digestive needs of the individual. This ebook will provide an overview of the neural mechanisms that control gastrointestinal function. Table of Contents: Neural Control of Gastrointestinal Function / Cells and Tissues / Enteric Nervous System / From Gut to CNS: Extrinsic Sensory Innervation / Sympathetic Innervation of the Gut / Parasympathetic Innervation of the Gut / Integration of Function / References

Ornithological Biography Jul 30 2021

Digestive System Jan 16 2023 This is the second edition of the third volume in the Monographs on Pathology of Laboratory Animals series. Since the first edition, new information has developed at a remarkable pace. Both editions propose standardized nomenclature that is being used internationally, gaining significant acceptance. The result is improved communications of pathologic data to regulatory agencies and in scientific publications worldwide. New information on the nature and variability of preneoplastic lesions in the liver of laboratory rodents is included in this edition. The book expands data on the accompanying changes in enzyme activity in affected liver cells. Spongiosis hepatis in the rat and its relation to spongiotic pericytoma are discussed thoroughly. Information on many other pathologic entities is brought up to date and new ones are added to this second edition, making it an even more useful and expanded reference text.

United States Code Apr 06 2022

Treating Digestive Disorders from an Endobiogenic Perspective Oct 13 2022 Treating Digestive Disorders from an Endobiogenic Perspective introduces and explains with clarity the concepts, philosophy and practical applications of endobiogenic medicine - a patient-centred diagnostic approach to treatment that originated in France and is now taught across the globe.It explores how a variety of digestive disorders including IBS, Crohn's disease, ulcerative colitis, GERD and dysbiosis, can be resolved with this ground-breaking system. Using in-depth case studies, Paul Michael gives us detailed treatment plans including specific diets, manual therapy and the use of targeted plants and supplements. He alsooffers new insights into the mechanism behind the autoimmune process seen in Crohn's disease and ulcerative colitis from the endobiogenic perspective.

Relationships Among the Brain, the Digestive System, and Eating Behavior Jun 28 2021 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.

Learning About the Digestive and Excretory Systems Nov 25 2023 Author Susan Dudley Gold delves into the functions of the digestive and excretory systems. She explains why these systems are discussed together, how they work, and ways to keep healthy. Fascinating tidbits about these systems add an interesting twist.

Gastrointestinal Surgical Techniques in Small Animals Nov 01 2021 Gastrointestinal Surgical Techniques in Small Animals offers a highly detailed reference to surgical procedures in the gastrointestinal tract in dogs and cats. Each chapter describes the surgical techniques in depth, featuring high-quality illustrations depicting each step, and discusses tips and tricks for a successful surgery and potential complications. A companion website offers video clips demonstrating the procedures. Logically divided into sections by anatomy, each chapter covers indications, contraindications, and decision making for a specific surgery. Tips and tricks and potential complications are also covered. Describes techniques for canine and feline gastrointestinal surgery in detail Presents the state of the art for GI surgery in dogs and cats Includes access to a companion website with video clips demonstrating techniques Gastrointestinal Surgical Techniques in Small Animals is an essential resource for small animal surgeons and veterinary residents.

Bioactive Food as Dietary Interventions for Liver and Gastrointestinal Disease May 20 2023 Bioactive Food as Dietary Interventions for Liver and Gastrointestinal Disease provides valuable insights for

those seeking nutritional treatment options for those suffering from liver and/or related gastrointestinal disease including Crohn’s, allergies, and colitis among others. Information is presented on a variety of foods including herbs, fruits, soy and olive oil. This book serves as a valuable resource for researchers in nutrition, nephrology, and gastroenterology. Addresses the most positive results from dietary interventions using bioactive foods to impact diseases of the liver and gastrointestinal system, including reduction of inflammation, improved function, and nutritional efficiency Presents a wide range of liver and gastrointestinal diseases and provides important information for additional research Associated information can be used to understand other diseases, which share common etiological pathways

Contributions from the Biological Laboratories in Princeton University Jan 04 2022 Vol. 2 contains papers from the Laboratories of Comparative Anatomy and History; vol. 3...from the Laboratories of Comparative Anatomy, Histology and Zoology; vol. 4/6...from the Laboratories of Comparative Anatomy, Histology, Physiology and Zoology.

Mayo Clinic on Digestive Health May 08 2022 Identify and treat digestive problems before they become difficult to manage—with this comprehensive reference from the world-renowned Mayo Clinic. Digestive problems are among the most common reasons people see doctors and take medication. This updated fourth edition of Mayo Clinic on Digestive Health is an authoritative yet practical reference manual that includes information on everything from healthy digestion to cancer treatment. The book is packed with helpful advice on treating common digestive conditions and preventing serious disease, with information on: Belching, bloating and gas • Celiac disease • Colorectal cancer • Constipation and diarrhea • Crohn’s disease and ulcerative colitis • Diverticular disease • Gallbladder disease • Heartburn and GERD • Irritable bowel syndrome • Liver disease • Pancreatic disease • Swallowing difficulties • Ulcers and stomach pain Also covered are diagnostic testing, mealtime recommendations and self-care tips for relieving discomfort, and the latest information on endoscopic ultrasound, virtual colonoscopy, and the newer minimally invasive treatments for gastroesophageal reflux disease (GERD).

New advances in dietary fibers and their role in metabolic, digestive, and immune health Jun 20 2023

Biology for AP ® Courses Mar 30 2024 Biology for AP® courses covers the scope and sequence requirements of a typical two-semester Advanced Placement® biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP® Courses was designed to meet and exceed the requirements of the College Board’s AP® Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP® curriculum and includes rich features that engage students in scientific practice and AP® test preparation; it also highlights careers and research opportunities in biological sciences.

Your Digestive System Nov 13 2022 Describes the process of digestion, including why digestion is important, how the body breaks down food into nutrients, and why some foods produce ill effects in the body.

The Digestive System Mar 25 2021 This is an integrated textbook on the digestive system, covering the anatomy, physiology and biochemistry of the system, all presented in a clinically relevant context appropriate for the first two years of the medical student course. One of the seven volumes in the Systems of the Body series. Concise text covers the core anatomy, physiology and biochemistry in an integrated manner as required by system- and problem-based medical courses. The basic science is presented in the clinical context in a way appropriate for the early part of the medical course.

Edible Sea Urchins: Biology and Ecology Oct 25 2023 Sea urchins are a major component of marine environments found throughout the world's oceans. A major model for research in developmental biology, they are also of major economic importance in many regions and interest in their management and aquaculture has increased greatly in recent years. This book provides a synthesis of biological and ecological characteristics of sea urchins that are of basic scientific interest and also essential for effective fisheries management and aquaculture. General chapters consider characteristics of sea urchins as a whole. In addition, specific chapters are devoted to the ecology of 17 species that are of major commercial interest and ecological importance. Features include: • A synthesis of what is known about the basic biological characteristics of the sea urchin, useful for the direction of future research. • Case histories of 17 species that illustrate their ecological role in a variety of environments. • With the catastrophic decline in fisheries resulting primarily from over-fishing, it is essential that the populations be managed effectively and that aquaculture be developed. This book provides knowledge of the biology and ecology of the commercially important sea urchins that will contribute to these goals. • The only book available in present literature devoted to sea urchins. With this new title experts provide a broad synthetic treatment and in depth analysis of the biology and ecology of sea urchins from around the world, designed to provide an understanding of the group and the basis for fisheries management and aquaculture.

100 Questions & Answers About Your Digestive Health May 27 2021 Empower Yourself! More than half the general population suffers from a GI condition that needs medical attention. Whether you're a newly diagnosed patient or a loved one of someone suffering from a digestive disorder, this book offers help. The only text available to provide both the doctor's and patient's views, 100 Questions & Answers About Digestive Health, provides practical, authoritative answers to 100 of the most common questions asked. Written with commentary from actual patients, this is an invaluable resource for anyone struggling with the medical, physical, and emotional turmoil of this disease.

The Work of the Digestive Glands Mar 18 2023

The Digestive System Apr 30 2024 In this book, text covers the core anatomy and physiology. Coverage of the necessary basic science is clinically driven - clinical cases used throughout chapters. In addition to the extensive use of cases throughout the book, the final chapter gives a coverage of the major diseases of the system, equipping students for the much earlier contact with patients which occurs under the new curriculum. Contents - Overview of the digestive system. Mouth and oesophagus. The stomach basic functions. The stomach control. Pancreas exocrine functions. Liver and biliary system. Small intestine. Digestion and absorption. Absorptive and post-absorptive states. The colon. Gastrointestinal pathology.

The Gastrointestinal Circulation Aug 23 2023 The microcirculation of the gastrointestinal tract is under the control of both myogenic and metabolic regulatory systems. The myogenic mechanism contributes to basal vascular tone and the regulation of transmural pressure, while the metabolic mechanism is responsible for maintaining an appropriate balance between O2 demand and O2 delivery. In the postprandial state, hydrolytic products of food digestion elicit a hyperemia, which serves to meet the increased O2 demand of nutrient assimilation. Metabolically linked factors (e.g., tissue pO2, adenosine) are primarily responsible for this functional hyperemia. The fenestrated capillaries of the gastrointestinal mucosa are relatively permeable to small hydrolytic products of food digestion (e.g., glucose), yet restrict the transcapillary movement of larger molecules (e.g., albumin). This allows for the absorption of hydrolytic products of food digestion without compromising the oncotic pressure gradient governing transcapillary fluid movement and edema formation. The gastrointestinal microcirculation is also an important component of the mucosal defense system whose function is to prevent (and rapidly repair) inadvertent epithelial injury by potentially noxious constituents of chyme. Two pathological conditions in which the gastrointestinal circulation plays an important role are ischemia/reperfusion and chronic portal hypertension. Ischemia/reperfusion results in mucosal edema and disruption of the epithelium due, in part, to an inflammatory response (e.g., increase in capillary permeability to macromolecules and neutrophil infiltration). Chronic portal hypertension results in an increase in gastrointestinal blood flow due to an imbalance in vasodilator and vasoconstrictor influences on the microcirculation. Table of Contents: Introduction / Anatomy / Regulation of Vascular Tone and Oxygenation / Extrinsic Vasoregulation: Neural and Humoral / Postprandial Hyperemia / Transcapillary Solute Exchange / Transcapillary Fluid Exchange / Interaction of Capillary and Interstitial Forces / Gastrointestinal Circulation and Mucosal Defense / Gastrointestinal Circulation and Mucosal Pathology I: Ischemia/Reperfusion / Gastrointestinal Circulation and Mucosal Pathology II: Chronic Portal Hypertension / Summary and Conclusions / References / Author Biography

Digestive and Hepatic Aspects of the Rheumatic Diseases, An Issue of Rheumatic Disease Clinics of North America, E-Book Sep 11 2022 This issue of Rheumatic Disease Clinics, guest edited by Dr. Liron Caplan, will cover a number of key topics related to the digestive and hepatic aspects of rheumatic disease. The articles in this issue will include: Gastrointestinal and Hepatic Disease in Systemic sclerosis, Gastrointestinal and Hepatic Disease in Spondyloarthritis, Gastrointestinal and Hepatic Disease in Systemic

Lupus erythematosus, Gastrointestinal and Hepatic Disease in Rheumatoid Arthritis, Gastrointestinal and Hepatic Disease in Behcets, Gastrointestinal and Hepatic Disease in Fibromyalgia, Gastrointestinal and Hepatic Disease in Sjogren's, among others.

The Journal of General Physiology Dec 03 2021 Official organ of the Society of General Physiologists, Sept. 1960-

Concepts of Biology Dec 27 2023 Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Digestion and Dyspepsia Sep 23 2023

All about Digestion Jun 01 2024 Discusses the process of digestion, the parts of the digestive system that make it possible, and related topics such as food and its importance to good health.

Digestive System Diseases: New Insights for the Healthcare Professional: 2012 Edition Aug 30 2021 Digestive System Diseases: New Insights for the Healthcare Professional / 2012 Edition is a ScholarlyBrief™ that delivers timely, authoritative, comprehensive, and specialized information about Digestive System Diseases in a concise format. The editors have built Digestive System Diseases: New Insights for the Healthcare Professional / 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Digestive System Diseases in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Digestive System Diseases: New Insights for the Healthcare Professional / 2012 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Gut Feeling and Digestive Health in Nineteenth-Century Literature, History and Culture Feb 02 2022 This book considers the historical and cultural origins of the gut-brain relationship now evidenced in numerous scientific research fields. Bringing together eleven scholars with wide interdisciplinary expertise, the volume examines literal and metaphorical digestion in different spheres of nineteenth-century life. Digestive health is examined in three sections in relation to science, politics and literature during the period, focusing on Northern America, Europe and Australia. Using diverse methodologies, the essays demonstrate that the long nineteenth century was an important moment in the Western understanding and perception of the gastroenterological system and its relation to the mind in the sense of cognition, mental wellbeing, and the emotions. This collection explores how medical breakthroughs are often historically preceded by intuitive models imagined throughout a range of cultural productions.

Digestive System (A True Book: Your Amazing Body) Feb 14 2023 Discover the main systems of our amazing human body with this new series of books! Digestion starts the minute you put food or a drink in your mouth. And by the time the process ends, your body has taken every bit of nutrition possible from your food. Did you know that the average person produces enough saliva in one year to fill a bathtub? Or that the small intestine is the longest part of the digestive system? Learn all this and more in Digestive System. ABOUT THE SERIES: The human body is a complex and remarkable machine. Digesting our food. Pumping our blood. Walking, running, and dancing. It takes our many body systems working together to keep us alive and living our lives to the fullest. This set of A True Books offers an in-depth look at our amazing bodies one system at a time. Interesting information is presented in a fun, friendly way and in the simplest terms possible giving students a "behind-the-scenes" look at how their bodies work.

Fiber Fueled Jan 21 2021 The instant New York Times, USA Today, and Publisher's Weekly bestseller A bold new plant-based plan that challenges popular keto and paleo diets, from an award-winning gastroenterologist. The benefits of restrictive diets like paleo and keto have been touted for more than a decade, but as renowned gastroenterologist Dr. Will Bulsiewicz, or "Dr. B," illuminates in this groundbreaking book, the explosion of studies on the microbiome makes it abundantly clear that elimination diets are in fact hazardous to our health. What studies clearly now show--and what Dr. B preaches with his patients--is that gut health is the key to boosting our metabolism, balancing our hormones, and taming the inflammation that causes a host of diseases. And the scientifically proven way to fuel our guts is with dietary fiber from an abundant variety of colorful plants. Forget about the fiber your grandmother used to take--the cutting-edge science on fiber is incredibly exciting. As Dr. B explains, fiber energizes our gut microbes to create powerhouse postbiotics called short-chain fatty acids (SCFAs) that are essential to our health. SCFAs are scientifically proven to promote weight loss, repair leaky gut, strengthen the microbiome, optimize the immune system, reduce food sensitivities, lower cholesterol, reverse type 2 diabetes, improve brain function, and even prevent cancer. Restrictive fad diets starve the gut of the critical fiber we need, weaken the microbes, and make our system vulnerable. As a former junk-food junkie, Dr. B knows firsthand the power of fiber to dramatically transform our health. The good news is that our guts can be trained. Fiber-rich, real foods--with fruits, vegetables, whole grains, seeds, nuts, and legumes--start working quickly and maintain your long-term health, promote weight loss, and allow you to thrive and feel great from the inside out. With a 28-day jumpstart program with menus and more than 65 recipes, along with essential advice on food sensitivities, Fiber Fueled offers the blueprint to start turbocharging your gut for lifelong health today.

Regulation of Gastrointestinal Mucosal Growth Jan 28 2024 The mammalian gastrointestinal mucosa is a rapidly self-renewing tissue in the body, and its homeostasis is preserved through the strict regulation of epithelial cell proliferation, growth arrest, and apoptosis. The control of the growth of gastrointestinal mucosa is unique and, compared with most other tissue in the body, complex. Mucosal growth is regulated by the same hormones that alter metabolism in other tissues, but the gastrointestinal mucosa also responds to host events triggered by the ingestion and presence of food within the digestive tract. These gut hormones and peptides regulate the growth of the exocrine pancreas, gallbladder epithelium, and the mucosa of the oxyntic gland region of the stomach and the small and large intestines. Luminal factors, including nutrients or other dietary factors, secretions, and microbes that occur within the lumen and distribute over a proximal-to-distal gradient, are also crucial for maintenance of normal gut mucosal regeneration and could explain the villous-height-crypt-depth gradient and variety of adaptation, since these factors are diluted, absorbed, and destroyed as they pass down the digestive tract. Recently, intestinal stem cells, cellular polyamines, and noncoding RNAs are shown to play an important role in the regulation of gastrointestinal mucosal growth under physiological and various pathological conditions. In this book, we highlight key issues and factors that control gastrointestinal mucosal growth and homeostasis, with special emphasis on the mechanisms through which epithelial renewal and apoptosis are regulated at the cellular and molecular levels.

Gastrointestinal Physiology Aug 11 2022 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.

Digestive System Mar 06 2022 "Discusses the parts that make up the human digestive system, what can go wrong, how to treat those illnesses and diseases, and how to stay healthy"--Provided by publisher.

The Digestive System Dec 15 2022 Discusses the digestive system, including the different organs and how they work together to digest food, and explains various illnesses that affect the digestive system.

Quarterly Cumulative Index to Current Medical Literature. V. 1-12; 1916-26 Apr 26 2021

Anatomy and Physiology Oct 01 2021

Digestive Physiology and Metabolism in Ruminants Apr 18 2023 Two questions could not be avoided in the avant-propos of this book; (i) what is the importance to man of ruminant livestock, and (ii) what results of practical relevance in the growing mountain of scientific verbiage could be found in the Proceedings of this Symposium. Herbivores are an integral and critical part of the natural ecosystem which must be preserved because of their impact on human welfare. Wh at makes ruminants especially important to man is that they can thrive on fibrous forage and are thus the only viable enterprise over much of the earth's surface where crop growing is impracti cable. They contribute a wide array of products in addition to 50000 000 tonnes ofmeat (1977) and represent a 'capital reserve' that can be drawn upon in times of emergency: milk for example (450000000 tonnes) can make the difference between subsistence and starvation. About 60% of the world's meat and 80 % of the milk are produced by one third of the world ruminant population in the developed regions and as much as 99 % of the power for agriculture is provided by the ruminant population in developing countries. For the next two decades, a probable increase by 30 % for . cattle and buffalo and more than 40 % for sheep and goats is expected by improving health, fertility, nutrition and genetic potential rather than feed resources.

Gastrointestinal Physiology 2/E Jul 22 2023 Gain a complete understanding of the functioning of the gastrointestinal system with this concise, engagingly written text Gastrointestinal Physiology explains the operation and performance of one of the body's most crucial systems. Using clear, compelling language, the book's presentation makes it easy to absorb the content and integrate it as you learn the physiology of other bodily systems. Written to help you understand essential concepts rather than merely memorize facts, this unique text examines many medically relevant facets of this important body system, including anatomy, pathophysiology, and therapeutics, in concert with physiological information. FEATURES: Provides a thorough review of core concepts and highlights clinical application Covers the physiologic principles needed to understand and treat patients with digestive and liver diseases Includes clinical examples that link basic science with the practice of medicine Incorporates new information on emerging topics such as the communication between the intestine and central nervous system that controls food intake, the myriad roles newly ascribed to the intestinal microbiota, contemporary approaches to therapy for a number of GI maladies, and the role of the gut in obesity Enhanced by valuable learning aids such as study questions, learning objectives, key concepts, numerous illustrations and charts, and recommended readings

Bacterial Flora in Digestive Disease Jun 08 2022 Hundreds of bacterial species make up human gut flora. The intestine has at least 400 different species of bacteria totaling over 1012 organisms. Of these, 99% are anaerobic bacteria. The gastrointestinal tract is then exposed to countless numbers of bacterial species and foreign antigens and has embedded a unique and complex network of immunological and non-immunological mechanisms to protect the host from potentially harmful pathogens. Healthy individuals are generally tolerant to their own microbiota, but such tolerance is impaired in patients with both organic and functional gastrointestinal diseases. The advancement of the knowledge on microbial-gut interactions in health and disease has allowed a more pathophysiologically-oriented approach to several challenging clinical conditions. There are currently two ways to manipulate enteric flora. Antibiotics can selectively decrease tissue invasion and eliminate aggressive bacterial species or globally decrease luminal and mucosal bacterial concentrations, depending on their spectrum of activity. Alternatively, administration of beneficial bacterial species (probiotics), poorly absorbed dietary oligosaccharides (prebiotics), or combined probiotics and prebiotics (synbiotics) can restore a predominance of beneficial commensal flora. These two therapeutic approaches are not, of course, mutually exclusive. Rifaximin, a poorly absorbed antibiotic targeted at the gastrointestinal tract, has been long used in Italy for the treatment of infectious diarrhea in both adults and children. During the past few years the appreciation of the pathogenic role of gut bacteria in several organic and functional gastrointestinal diseases has increasingly broadened its clinical use, which now covers hepatic encephalopathy, small intestine bacterial overgrowth, inflammatory bowel disease and colonic diverticular disease. Other potential clinical indications are being explored and look promising.

Feeding and Digestive Functions in Fishes Feb 22 2021 Understanding the biology of the innumerable number of aquatic species on our planet is the focus of sustained research efforts. Environmental degradation, management or rehabilitation of wild stocks, and the forecasted climatic changes are fueling interest in the study of the ecology, feeding behavior, and nutrition of aquatic animals in their nat

- The Digestive System

- Feeding And Digestive Functions In Fishes
- Fiber Fueled