

NEUROIMMUNOPHYSIOLOGY OF THE GASTROINTESTINAL MUCOSA: IMPLICATIONS FOR INFLAMMATORY DISEASES

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GALVESTON, TEXAS

The major functions of the gastrointestinal tract are under complex regulatory control. These functions include the absorption and secretion of nutrients, water and electrolytes, and also the mechanical movement of intraluminal contents from the mouth to the anus. Up until approximately a decade ago, the major systems controlling the gastrointestinal tract were considered to be the enteric nervous system (ENS) and the endocrine system (1). The ENS is comprised of extrinsic components such as the sympathetic and parasympathetic nerves, and intrinsic components which consist of the submucosal and myenteric plexuses as well as peptide-secreting enteroendocrine cells interspersed within the gastrointestinal epithelium. The endocrine system regulates through the secretion of blood-borne hormones which affect distant cells or organs. Examples include the hormones gastrin or secretin which regulate gastric HCl or pancreatic secretion, and aldosterone which is released from the adrenal gland and acts on the colon to increase sodium and water absorption. Intestinal function is also altered by pathological stimuli, ie., bacterial enterotoxins such as cholera toxin or *E.coli* ST toxin which stimulate an outpouring of water and electrolytes from the infected gut (2). This is an example of regulation subverted by a disease process.

In the last five years, a new regulatory system has been discovered and extensively studied - the immune system (3,4). It is now clear that the elements of the immune system which either transiently or permanently reside in the lamina propria (consisting of lymphocytes, phagocytes [neutrophils, eosinophils, and macrophages] and mast cells) have close anatomical and physiological interactions with the neural elements of the ENS and with the intestinal mesenchymal cells (subepithelial intestinal myofibroblasts). In so doing, they aid in the regulation of intestinal water and electrolyte transport as well as smooth muscle contraction in both health and disease.

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Neuro-immuno-physiology of the Gastrointestinal Mucosa Ron H. Stead, 1992 Scientists from various disciplines integrate the neuro biological and immunological aspects of mucosal function in the context of traditional mucosal physiological processes Coverage includes epithelium barrier function to antigens lamina propria immune and other effector cells epithelial response to inflammation epithelial secretory responses to inflammation interactions of immune cells mediators with the nervous system neuro immune modulation of epithelial function and pathophysiology of inflammation

Gastrointestinal and Hepatic Immunology Richard Heatley, 1994-10-27 This 1994 volume summarizes basic scientific advances in the area of the gut immune system and the immune abnormalities relevant to gastrointestinal and liver disease

Regulatory Mechanisms in Gastrointestinal Function (1995) Timothy S. Gaginella, 2017-11-22 Regulatory Mechanisms in Gastrointestinal Function includes a collection of contemporary topics in gastrointestinal research The control of gastroduodenal electrolyte transport and the influence of drugs on bicarbonate secretion are reviewed in detail The importance of the interactions between calcium and cyclic AMP in intestinal secretion is emphasized in a comprehensive chapter that systematically addresses each link in the mechanisms that regulate chloride secretion Other important topics included in the book are neural reflex modulation of intestinal epithelial transport the influence of the microcirculation on intestinal secretion and nitric oxide as a mediator of physiologic and pathophysiologic secretion The expertise of the authors has resulted in a breadth of important contemporary topics covered in depth

Neuropeptides in Respiratory Medicine Michael A. Kaliner, Peter J. Barnes, Gert H.H. Kunkel, James N. Baraniuk, 2017-09-29 This outstanding resource offers comprehensive presentations of the latest basic knowledge and the most advanced research on neuropeptides of the respiratory tract covering the structure receptors molecular biology and function of each important neuropeptide and examining how they relate to disease Demonstrates the utility of immunohistochemistry autoradiography molecular biology smooth muscle contraction and glandular secretion for the study of neural function both in vitro and in vivo

Helicobacter pylori Axcan Pharma, 1998 The explosion of information on Helicobacter pylori related disease both in the basic sciences and in clinical medicine has continued to progress at an unprecedented pace In many instances H pylori infection both in man and in the laboratory animal has become a model to investigate fundamental biological issues such as micro organism host interactions intracellular signalling development of mucosal atrophy mechanism of microbial resistance disease modifying factors etc

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1993

Handbook of Nanobiomedical Research Vladimir Torchilin, 2014 This book consists of 4 volumes containing about 70 chapters covering all the major aspects of the growing area of nanomedicine Leading scientists from 15 countries cover all major areas of nanobiomedical research materials for nanomedicine application of nanomedicine in therapy of various diseases use of nanomedicines for diagnostic purposes technology of nanomedicines and new trends in nanobiomedical

research This is the first detailed handbook specifically addressing various aspects of nanobiomedicine Readers are treated to cutting edge research and the newest data from leading researchers in this area Contents Materials for Nanomedicine Liposomal Nanomedicines Amr S Abu Lila Tatsuhiko Ishida and Theresa M Allen Solid Lipid Nanoparticles for Biomedical Applications Karsten Mader Micellar Nanopreparations for Medicine Rupa Sawant and Aditi Jhaveri Nanoemulsions in Medicine William B Tucker and Sandro Mecozzi Drug Nanocrystals and Nanosuspensions in Medicine Leena Peltonen Jouni Hirvonen and Timo Laaksonen Polymeric Nanosystems for Integrated Image Guided Cancer Therapy Amit Singh Arun K Iyer and Mansoor M Amiji Polysaccharide Based Nanocarriers for Drug Delivery Carmen Teijeiro Adam McGlone Noemi Csaba Marcos Garcia Fuentes and Maria J Alonso Dendrimers for Biomedical Applications Lisa M Kaminskas Victoria M McLeod Seth A Jones Ben J Boyd and Christopher J H Porter Layer by Layer Nanopreparations for Medicine Smart Polyelectrolyte Multilayer Capsules and Coatings Rawil F Fakhrullin Gleb B Sukhorukov and Yuri M Lvov Inorganic Nanopreparations for Nanomedicine James Ramos and Kaushal Rege Silica Based Nanoparticles for Biomedical Imaging and Drug Delivery Applications Stephanie A Kramer and Wenbin Lin Carbon Nanotubes in Biomedical Applications Krupal K Mehta Elena E Paskaleva Jonathan S Dordick and Ravi S Kane Core Shell Nanoparticles for Biomedical Applications Mahmoud Elsayahy and Karen L Wooley Structure Activity Relationships for Tumor Targeting Gold Nanoparticles Erik C Dreaden Ivan H El Sayed and Mostafa A El Sayed Silver Nanoparticles as Novel Antibacterial and Antiviral Agents Stefania Galdiero Annarita Falanga Marco Cantisani Avinash Ingle Massimiliano Galdiero and Mahendra Rai Magnetic Nanoparticles for Drug Delivery Rainer Tietze Harald Unterweger and Christoph Alexiou Quantum Dots as a Platform Nanomaterial for Biomedical Applications Eleonora Petryayeva Roza Bidshahri Kate Liu Charles A Haynes Igor L Medintz and W Russ Algar Applications in Therapy The Application of Nanomedicine to Cardiovascular Diseases Kevin M Bardon Olivier Kister and Jason R McCarthy Nanomedicines for Restenosis Therapy J E Tengood I Fishbein R J Levy and M Chorny Nanopreparations for Cancer Treatment and Diagnostics Jayant Khandare Shashwat Banerjee and Tamara Minko Nanoparticles in the Gastrointestinal Tract Abraham Rubinstein Nanopreparations for Oral Administration D Hubbard D J Brayden and H Ghandehari Nanopreparations for Central Nervous System Diseases Leyuan Xu and Hu Yang Nanoparticles for Dermal and Transdermal Delivery Permeation Pathways and Applications Marianna Foldvari Marjan Gharagozloo and Christine Li Lysosomes and Nanotherapeutics Diseases Treatments and Side Effects Rachel L Manthe and Silvia Muro Nanostructured Biomaterials for Inhibiting Cancer Cell Functions Lijuan Zhang and Thomas J Webster Nanomedicine in Otorhinolaryngology

Enhancement in Drug Delivery Elka Touitou, Brian W. Barry, 2006-11-27 Providing a significant cross fertilization of ideas across several disciplines Enhancement in Drug Delivery offers a unique comprehensive review of both theoretical and practical aspects of enhancement agents and techniques used for problematic administration routes It presents an integrated evaluation of absorption enhancers and modes for **Diarrhoeal Diseases Research**, 1997-12 **Helicobacter pylori**

R.H. Hunt, G.N. Tytgat, 2012-12-06 The explosion of new information on *Helicobacter pylori* related disease both in the basic sciences and in clinical medicine has continued to progress at an unprecedented pace. In many instances *H. pylori* infection both in man and in the laboratory animal has become a model to investigate fundamental biological issues such as micro-organism host interactions, intracellular signalling, development of mucosal atrophy, mechanism of microbial resistance, disease modifying factors etc. In view of this bewildering flood of new information, the time was considered right to organize yet another update on *H. pylori* in the successful series *Basic mechanisms to clinical cure* to define the state of affairs in *H. pylori* research at this time. Our main objective was to integrate this new information in a series of top quality presentations and discussions between investigators and clinicians addressing all aspects of *H. pylori* research and to review the current position and future research directions. The format included state of the art presentations by world experts heavily involved in *H. pylori* research followed by in depth discussion on intriguing or controversial issues. The topics discussed were grouped according to the leading theme characteristics of the organism: mode of transmission, mechanisms of *H. pylori* induced inflammation, causation of disturbances of gastric secretory and motor function, aspects of clinical presentation and management problems related to *H. pylori* associated gastric adenocarcinoma and MALT lymphoma, novel aspects of antimicrobial therapy and vaccination. The meeting concluded with a synoptic agenda of suggested future studies for the microbiologist, the histopathologist and the clinician. **Current Catalog** National Library of Medicine (U.S.), 1993-04

Cumulated Index Medicus, 1993 **Inflammatory Bowel Disease** L.R. Sutherland, S.M. Collins, F. Martin, R.S. McLeod, Stephan R. Targan, 2012-12-06 The inflammatory bowel diseases of unknown etiology and for which there are no cures continue to attract the attention and interest of gastroenterologists, internists and surgeons. International symposia are common and it is safe to say that there is at least one major symposium held somewhere in the world each year. This book encompasses the proceedings of two recent symposia held in Victoria, British Columbia, Canada. The symposia were the fifth and sixth international meetings focused on inflammatory bowel disease in Canada in the last eight years. Once again they were sponsored by Axcan Pharma Inc. formerly Interfalk Canada Inc. and endorsed by the Canadian Association of Gastroenterology. As has become traditional at such meetings, the faculty was drawn from an international roster of leaders in the field of inflammatory bowel disease and gastroenterology. The chapters of the proceedings provide a timely up to date review of the major issues including those within the realm of basic science and others dealing with clinical problems. The first symposium, *Basic Research and Clinical Implications*, was co-ordinated by John Wallace in association with Stephen Collins and Stephan Targan. The themes of this section were organized under the general topics of predisposing factors, genetics, animal models, infection, permeability and immune deficits and the pathophysiology of intestinal inflammation. The second symposium, *Trends in Therapy*, was organized by Lloyd Sutherland along with Francis Martin, Robin McLeod and Noel Williams. Lacrimal Gland, Tear Film, and Dry Eye Syndromes David A. Sullivan, 2012-12-06 During the past decade a

significant international research effort has been directed towards understanding the composition and regulation of the precorneal tear film. This effort has been motivated by the recognition that the tear film plays an essential role in maintaining corneal and conjunctival integrity protecting against microbial challenge and preserving visual acuity. In addition research has been stimulated by the knowledge that alteration or deficiency of the tear film which occurs in countless individuals throughout the world may lead to desiccation of the ocular surface ulceration and perforation of the cornea an increased incidence of infectious disease and potentially pronounced visual disability and blindness.⁷ To promote further progress in this field of vision research the International Conference on the Lacrimal Gland Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance was held in the Southampton Princess Resort in Bermuda from November 14 to 17 1992. This meeting was designed to assess critically the current knowledge and state of the art research on the structure and function of lacrimal tissue and tears in both health and disease. The goal of this conference was to provide an international exchange of information that would be of value to basic scientists involved in eye research to physicians in the ophthalmological community and to pharmaceutical companies with an interest in the treatment of lacrimal gland tear film or ocular surface disorders e.g. Sjögren's syndrome.

Equine Internal Medicine - E-Book Stephen M. Reed, Warwick M. Bayly, Debra C. Sellon, 2017-10-25. Confidently diagnose treat and manage patient conditions with the only comprehensive book on the market devoted solely to equine internal medicine. Filled with fully updated content on principles of treatment and contributions from internationally known equine experts. *Equine Internal Medicine* 4th Edition focuses on the basic pathophysiologic mechanisms that underlie the development of various equine diseases. A problem based approach outlines how to apply the latest clinical evidence directly to the conditions you will encounter in practice. A new companion website with over 120 video clips presents diseases and disorders that cannot be explained as well through words. Updated information throughout including the most recent drug information. Current and well referenced content on equine diseases and treatment techniques cites the latest books and journals. Internationally known equine experts present information on problems affecting horses throughout the world and provide contributions that enable practitioners and students to approach disease and treatment of equine patients with more authority and understanding. User friendly exterior and interior design makes the book appealing to both the equine internal medicine practitioner and the veterinary student. Easy to find information facilitates a more thorough understanding with minimal frustration. Organized and consistent coverage among chapters allows you to easily find information on a specific topic. NEW Fully updated and revised sections on disorders and principles of treatment. NEW Problem based approach outlines how to apply the latest clinical evidence directly to the conditions you will encounter in practice. NEW Pathophysiology is emphasized throughout providing a sound basis for discussions of the diagnosis treatment and prognosis that follow. NEW Body systems chapters begin with a thorough discussion of the diagnostic method appropriate to the system including physical examination clinical pathology radiography

endoscopy and ultrasonography NEW and UNIQUE Companion website includes more than 120 video clips linked to content from chapters on cardiovascular and neurologic system disorders NEW Flow charts diagrams and algorithms clarify complex material **Sustainable Swine Nutrition** Lee I. Chiba,2013-02-04 Finding sustainable means of swine nutrition is

important to both pork industry personnel and the environment alike This reference comprehensively covers the most recent advancements in sustainability that results in more efficient diets thus reducing both production costs and waste Chapters include information on alternative feedstuffs feed additives bioavailability of nutrients and management of wastes and odors Written by internationally recognized experts in the field Sustainable Swine Nutrition will be a valuable reference for those involved in all aspects of pork production Comprehensively covers the most recent advancements in sustainability to promote reduced pork production costs and waste Covers recent topics such as alternative feedstuffs feed additives and bioavailability Discusses environmental topics such as waste and odor management Written by an international team of experts in the field

Sjögren's Syndrome Mitsuo Homma,1994 **Annals of the New York Academy of Sciences** Thomas Lincoln Casey,Gilbert Van Ingen,Charles Lane Poor,Edmund Otis Hovey,Ralph Winfred Tower,1992 Records of meetings 1808 1916 in v 11 27 Bibliography of Agriculture with Subject Index ,1993-05 *Biomedical Index to PHS-supported Research* ,1988

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