

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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Neuroimmunophysiology Of The Gastrointestinal Mucosa Implications For

Elka Touitou, Brian W. Barry



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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

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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.

Embracing the Beat of Expression: An Emotional Symphony within **Neuroimmunophysiology Of The Gastrointestinal Mucosa Implications For**

In some sort of consumed by monitors and the ceaseless chatter of fast transmission, the melodic beauty and psychological symphony created by the written word usually diminish into the back ground, eclipsed by the relentless sound and disruptions that permeate our lives. However, set within the pages of **Neuroimmunophysiology Of The Gastrointestinal Mucosa Implications For** a stunning fictional treasure overflowing with natural thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, that charming masterpiece conducts visitors on a psychological trip, well unraveling the hidden tunes and profound influence resonating within each cautiously constructed phrase. Within the depths of the touching review, we will explore the book is central harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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