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# Regulatory Mechanisms in Gastrointestinal Function

*Edited by*  
**T. S. Gaginella**



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# Regulatory Mechanisms In Gastrointestinal Function

**Kuo-Feng Hua, Oleg Chernikov, Ann  
Chen, Jong-Seok Moon**



## **Regulatory Mechanisms In Gastrointestinal Function:**

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 Regulatory Mechanisms in Gastrointestinal Function Timothy S. Gaginella, 1995-08-01 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 **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 NLRP3 Inflammasome: Regulatory Mechanisms, Role in Health and Disease and Therapeutic Potential Kuo-Feng Hua, Oleg Chernikov, Ann Chen, Jong-Seok Moon, 2021-11-08 *The Role of Inflammation and Immune Control in Digestive Disease and Therapeutic Approaches* Shuai Wang, Liu Changhui, Zhenhua Li, Wenyi Gu, 2025-05-29 Digestive system diseases including gastroenteritis irritable bowel syndrome Crohn's disease ulcerative colitis hepatitis and pancreatitis present as a common disease that affects millions of people worldwide The pathogenesis of these diseases remains as a complex context involving multiple factors such as genetics environment lifestyle microbiome and immune system Recently multi omics analysis strategies raised much concern

about the proximal and distal cross talks between immunocytes and tissue specific cell types Methods for the diagnosis treatment and prognosis of digestive diseases related to immunity such as stem cell therapies small molecule chemical drugs biologics and phytochemicals have been successively developed and applied However the specific functions and related mechanisms of immune cells such as T cells B cells macrophages and other immune cells in digestive diseases still need further exploration Thus investigating the potential and promising immunomodulatory targets would help us uncover the initiation and development of molecular events of immune disorders in digestive system diseases which in turn would promote their prevention and treatment The goal of this Research Topic is to provide a forum to advance research on the comprehensive understanding of immune regulatory mechanisms and the role of abnormal mechanisms in the occurrence and development of digestive diseases as well as to explore innovative immune oriented drugs or treatment interventions in the attempt to achieve a beneficial impact on the diagnosis prevention therapy and prognosis of digestive diseases

Bullet points are as below

- 1 The specific functions and clinical significance of immune cells e g T cells B cells macrophages and other immune cells etc in digestive diseases
- 2 The mechanism of immune cells participate in inflammatory reactions and tissue damage in digestive diseases
- 3 The mechanism of regulators affecting the inflammatory response of the digestive system e g nuclear receptor membrane receptor pathway etc
- 4 The role of small molecules in digestive diseases e g cytokines chemical factors anti inflammatory agents immune regulatory molecules etc
- 5 Development of novel anti inflammatory and immunomodulatory drugs for digestive diseases

Bibliometric studies are outside of the scope of this section and may be rejected or redirected to other journals sections as appropriate Bioinformatics or Computational Analysis of public genome or transcriptome databases need to be accompanied by robust and relevant validation to be submitted to this section Manuscripts describing the pharmacological action of drugs used in traditional medicine in models of disease such as inflammatory disease are not in scope unless they have a strong focus on the immune system

**Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992      Research Awards Index ,1989      **Regulatory Mechanism in Vertebrates** ,      *Physiology of the Gastrointestinal Tract* Kim E. Barrett,Fayez 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     *Research Grants Index* National Institutes of Health (U.S.). Division of Research Grants,1975     **Biomedical**

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Koeppen,Bruce A. Stanton,2009-12-11 Berne and Levy Physiology has long been respected for its scientifically rigorous approach and now includes major updates to bring you all of the latest knowledge in the field Bruce M Koeppen and Bruce A Stanton present a honed and shortened edition that emphasizes the core information needed by students of physiology today and features a full color design and artwork to enhance readability and enrich your comprehension of every concept With access to the full contents online at Student Consult this time honored book delivers an in depth understanding of physiology more powerfully and effectively than ever before Describes all of the mechanisms that control and regulate bodily function using a clear and intuitive organ system based approach Provides a rich understanding of the body s dynamic processes through key experimental observations and examples Includes Student Consult access to the complete and searchable contents of the book online as well as relevant bonus content from other Student Consult titles an image gallery 10 physiology animations and much more Features updated coverage throughout to expand your understanding of the most current trends in physiology and medicine including the latest cellular and molecular knowledge Includes shaded boxes that highlight and explain important clinical and molecular information Presents new section editors who ensure that you are getting the freshest most clinically relevant information available today Summarizes need to know information in each chapter with Key Points sections     **Essential Medical Physiology** Leonard R. Johnson,2003-09-18 Textbook covering the

principal subjects in a modern medical school physiology course     **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 **Gastrointestinal Function**, 1990 The Role of Dietary Interventions in The Regulation of Host-Microbe Interactions: Volume II Zongxin Ling, Tingtao Chen, Yuan Kun Lee, Qixiao Zhai, Xinglin Zhang, 2024-11-11 Given the success of Volume I of this Research Topic we are pleased to announce the launch of Volume II of The Role of Dietary Interventions in The Regulation of Host Microbe Interactions Nowadays emerging evidence indicates that targeted diet could be an important tool for fighting ageing and diseases via adjusting the intestinal microbial composition Besides probiotics and specific strains isolated from human gut microbiota can also directly regulate host health and disease Gut microbiota breaks down and biotransforms dietary and host derived components and these end products as well as bacterial surface components or secretions not only support host growth but also possess signalling functions on systemic immune and metabolic responses Although metagenomics metabolomics proteomics and transcriptomics are widely used to explore the interactions among microbiota with environments diets and diseases it is more important to identify the key bacteria by means of these genomics and isolate the targeted bacteria via cultivating omics further studying their biological characteristics their impact on the host **Revival** Taylor & Francis Group, 2018-12-31 Development of the Gastrointestinal Tract Ian R. Sanderson, W. Allan Walker, 2000 The authors chronicle the development of the gastrointestinal system beginning with the embryology of the gastrointestinal tract through development of cells to hormones and enzymes Each section provides detailed explanation of that stage of development so residents and clinicians can better understand the interrelationships of each structure Special attention is given to the latest cellular information and gene promoters in the regulation of intestinal development Coverage of defects due to trauma and infections is also included

**Psychophysiology of the Gastrointestinal Tract** Rupert Holz, 2012-12-06 Over a quarter century ago Flanders Dunbar in her 1954 compendium on Emotion and Bodily Changes surveyed over 5 000 references on psychosomatic interrelationships including a literature on psychic factors in gastrointestinal disorders dating back to 1845 The title of the present volume suggests a line of descent from these early initiatives but important changes are in the making Indeed the form and substance of long overdue reformulations are clearly reflected in the scholarly contributions which enhance this report of the 1980 Munich symposium proceedings Traditional psychosomatic approaches to understanding the

gastrointestinal system and its functional disorders have been based in large part on two virtually unchallenged assumptions. In the first instance unobserved indeed unobservable psychological processes have been considered causally related to disease onset and or to fluctuations in the course of the disease. And secondly it has been assumed that psychotherapeutic interventions for disease management should be designed to alter these hypothesized psychic antecedents. More recently however a new paradigm for analyzing the relationships involving disordered physiological functions and behavioral interactions has been developed within the framework of what has been termed behavioral medicine. The conceptual boundaries of this relatively new approach to behavioral physiology have not yet been firmly established but the major differences between the new behavioral model and the traditional psychosomatic model are brought into sharp relief by the experimental and clinical contributions to the present volume.

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