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William J. Snape  
Stephen Collins

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Effects of Immune Cells  
and  
Inflammation on Smooth Muscle  
and  
Enteric Nerves



CRC Press  
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# Effects Of Immune Cells And Inflammation On Smooth Muscle And Enteric Nerves

**William J. Snape, Jr., Stephen M. Collins**

## **Effects Of Immune Cells And Inflammation On Smooth Muscle And Enteric Nerves:**

**The Effects of Immune Cells and Inflammation On Smooth Muscle and Enteric Nerves** Jr. Snape, Stephen M. Collins, 2020-02-05 This book provides the first comprehensive review of research that addresses the immunomodulation of gastrointestinal motility Results from this new field of research are important for understanding motility disturbances and symptom generation in a variety of clinical gastroenterological problems including ulcerative colitis Crohn s disease enteric infections and food allergies The book provides overviews on current perspectives regarding the nature of inflammatory processes inflammatory mediators and other immune factors It also describes a variety of experimental approaches that have been used to study the interactions between immune cells and smooth muscle or enteric nerves The approaches include in vivo as well as in vitro studies Researchers involved in the general field of immunophysiology as well as the more specific fields of gastrointestinal motility and inflammatory bowel diseases will find this book to be invaluable in their research

The Effects of Immune Cells and Inflammation On Smooth Muscle and Enteric Nerves William J. Snape, Jr., Stephen M. Collins, 2020-02-05 This book provides the first comprehensive review of research that addresses the immunomodulation of gastrointestinal motility Results from this new field of research are important for understanding motility disturbances and symptom generation in a variety of clinical gastroenterological problems including ulcerative colitis Crohn s disease enteric infections and food allergies The book provides overviews on current perspectives regarding the nature of inflammatory processes inflammatory mediators and other immune factors It also describes a variety of experimental approaches that have been used to study the interactions between immune cells and smooth muscle or enteric nerves The approaches include in vivo as well as in vitro studies Researchers involved in the general field of immunophysiology as well as the more specific fields of gastrointestinal motility and inflammatory bowel diseases will find this book to be invaluable in their research

Immunopharmacology of the Gastrointestinal System John L. Wallace, 1993-03-01 Diseases of the digestive system have a higher morbidity rate than any other group of disorder There is a growing body of evidence that the immune system participates in the pathogenesis of a wide range of these diseases including peptic ulcer disease and the gastropathy induced by nonsteroidal anti inflammatory drugs NSAIDS For these reasons efforts to develop novel therapies for digestive diseases are increasingly focused on the immune system This volume reviews the immunopharmacology of the gastrointestinal tract at four distinct levels Immunomodulation at a cellular level Cellular targets for immunomodulating drugs Specific classes of inflammatory mediators Utility and mechanisms of action of glucocorticoids in the treatment of diseases of the gastrointestinal tract

**Innervation of the Gut** Yvette Tache, David L. Wingate, Thomas F. Burks, 1993-12-02 Innervation of the Gut provides a stimulating discussion of gut innervations based on exciting developments generated by advanced neuroanatomical and electrophysiological approaches All components of the nervous system are covered including central spinal autonomic and enteric systems This information is relative to secretory motor and immune regulatory functions of the

gut as well as visceral sensation Brain transmitters involved in mediating stress induced alterations of gastrointestinal motor function and the central regulation of vagal outflow to the gut are discussed in detail The book will stimulate basic scientists and gastroenterologists to expand research efforts that may enable them to unravel the mechanisms of brain gut interactions under physiological and pathological conditions Students psychologists and psychiatrists will find **Innervation of the Gut** an essential reference for their studies

**Innervation of the Gastrointestinal Tract** Simon Brookes,Marcello Costa,2002-06-27 The long tube that makes up the gastrointestinal tract is composed of a variety of tissue types and is the largest internal organ of the body Its main function is to digest food and absorb the released nutrients Furthermore it is subdivided into functionally distinct regions that each mediate one of a variety of actions upon the food consumed i

Cell Injury and Protection in the Gastrointestinal Tract Gyula Mózsik,L. Nagy,K. D. Rainsford,A. Pár,2012-12-06 The scientific main programmes of these series of symposia changed from time to time following the international scientific trends The main programmes of the First Symposium were 1 Gastric and intestinal cytoprotection 2 Hepatoprotection 3 Pancreatic protection For the second one 1 Gastrointestinal mucosal cytoprotection 2 Liver cytoprotection 3 Pancreatic cytoprotection 4 Free radicals and scavengers 5 Computer approach to cytoprotection For the third one 1 Basic central peripheral and cellular mechanisms of gastrointestinal cytoprotection 2 Esophageal protection 3 Gastric protection 4 Small intestinal injury and protection 5 Large bowel injury and protection 6 Liver injury and protection 7 Pancreas injury and protection The main scientific programmes of the Fourth International Symposium on Cell Injury and Protection in the Gastrointestinal Tract are 1 General mechanisms of gastrointestinal injury and protection 2 Cell injury and protection in the stomach 3 Cell injury and protection in the small intestine and in the large bowel 4 Cell injury and protection in the liver and pancreas 5 Cell injury and protection of the premalignant status and malignant diseases in the gastrointestinal tract The presented papers are published in this book The abstracts of this meeting were published in Digestive Diseases and Sciences and we record appreciation of the Editor of that journal for their publication Some of the papers published here have appeared in **Inflammopharmacology** 1996 4 331 398

**Immunopharmacology of the Gut** W. Allan Walker,Paul R. Harnatz,Barry K. Wershil,2013-10-22 Bristol Myers Squibb Mead Johnson Nutrition Symposia Volume 11 Immunopharmacology of the Gut represents a comprehensive and systematic coverage of the immunopharmacology of the gut compiling research that integrates the mucosal immune system and intestinal physiology This book discusses the immunological regulation of epithelial function fibroblastic sheath pathways of arachidonic acid metabolism and gastric response to mucosal anaphylaxis The implications for inflammatory diarrhea role of breast milk in neonatal host defense and milk borne peptide growth factors in human and bovine milk are also elaborated This publication likewise covers the immunopathologic features of celiac disease immune responses in protein energy malnutrition and bacterial translocation This volume is suitable for experts and clinicians from the disciplines of mucosal immunology intestinal physiology and enteric neurophysiology

**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

**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

**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

*Pathophysiology of the Enteric Nervous System* Robin Spiller, David Grundy, 2008-04-15 Over the last few years there have been huge advances made in our understanding of the interactions between the brain and the gut the enteric nervous system This book is particularly relevant in the understanding diagnosis and management of irritable bowel syndrome the most common functional disorder of the bowel IBS has been diagnosed in 10-20% of adults in the US and symptoms of IBS are responsible for more than 3 million visits to the physician in the US This book is aimed at specialist gastroenterologists but also should be of interest for trainees and fellows in gastroenterology as well as PCPs and GPs with an interest in this subject

Understanding Crohn's Disease: Immunity, Genes and Microbes Amélia Sarmiento, Fernando Magro, Nair Campos, 2017-08-11 Crohn's disease CD is a chronic relapsing inflammatory bowel disease resulting in considerable morbidity and reduced quality of life Although still under intense debate CD seems to result from an enhanced and uncontrolled immune response to the gut microbiota CD is thought to be multifactorial depending on genetic and environmental determinants In recent years nearly 100 single nucleotide polymorphisms SNPs were associated with increased risk of developing CD some of the SNPs also associated with susceptibility to ulcerative colitis another type of IBD These SNPs are mostly located in genes involved in innate and adaptive immunity mechanisms such as autophagy expression of pattern recognition receptors and cytokine signaling Epigenetics is also probably playing a role in CD susceptibility as it is sensitive to environmental conditions and may mediate gene environment interactions Environmental factors possibly involved in CD development include diet gut microbiota composition and infection with specific pathogens of which the most consistently associated to CD are *Mycobacterium avium* subsp *paratuberculosis* and adherent invasive *Escherichia coli* This Topic aimed at bringing together contributions covering different genetic epigenetic immunological and microbial processes involved in the development of CD helping to drive forward the understanding of CD immunopathology

**Network Pharmacology and Traditional Medicine** Shao Li, Yuanjia Hu, Shi-Bing Su, 2020-10-08 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org/about/contact](mailto:frontiersin.org/about/contact)

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National Library of Medicine (U.S.),1991      Essentials of Experimental Surgery H Gregerson,S Lindkaer Jensen,F Moody,M Shokouh-Amiri,1996-05-28 This book covers all aspects of experimental gastrointestinal research including anatomy physiology surgical procedures and animal experimental models As well as being a useful reference guide to established scientists it serves as an ideal introduction to the field of gastroenterology By consulting the book the appropriate animal species and experimental model can be chosen for physiological and pathophysiological studies      **Psychological Aspects of Inflammatory Bowel Disease** Simon R. Knowles,Antonina A. Mikocka-Walus,2014-09-19 In the Western world around 360 in every 100 000 individuals have inflammatory bowel disease IBD a relapsing remitting autoimmune disease that affects the gastrointestinal tract Its impact on individual functioning across physical and psychosocial domains is significant and psychological distress is a common feature with research suggesting that active IBD is associated with one of the highest rates of depression and anxiety of all chronic illnesses Despite the high prevalence of mental health co morbidities in IBD psychological illness remains largely undertreated with studies showing that 60% of IBD patients experiencing mental health problems do not receive adequate help In this book Knowles and Mikocka Walus bring together world experts who practice integrated and holistic approach in their care for IBD patients to provide an overview of research across a range of topics associated with the biopsychosocial treatment of IBD Each chapter provides an up to date comprehensive consolidation and evaluation of the current literature alongside recommendations for practice Key themes include current understanding of the interrelationship of the neurological and biological aspects of IBD common concerns and issues individuals with IBD face exploring challenges across individual life stages current evidence for psychosocial interventions recommendations for future directions of biopsychosocial work Psychological Aspects of Inflammatory Bowel Disease A biopsychosocial approach is a key resource for researchers practitioners and academics considering psychosocial aspects of the disease and psychological interventions It will also appeal to health psychologists and mental health practitioners working with clients with IBD as well as gastroenterologists interested in a comprehensive and holistic approach to IBD management      Human Eosinophils G. Marone,2000-07 Eosinophils represent approximately 1% of peripheral blood leukocytes and play a central proinflammatory and immunoregulatory role in various immune disorders This volume provides the reader with a comprehensive survey of the major aspects of human eosinophilic biology and immunology as well as the most clinically relevant aspects of eosinophil related disorders Expert contributions cover the ultrastructural and phenotypic characteristics of human eosinophils and their fundamental biochemical features including receptors for IgE and chemokines The production of cytokines and their role in the activation of eosinophils are reviewed Furthermore the classic eosinophil related disorders such as hypereosinophilia drug reactions allergic disorders and some cardiovascular diseases are described Each of the chapters is written by an investigator actively engaged in research on the topic under consideration The well edited and stimulating material compiled in this volume will be of interest to all those working in allergology immunology biochemistry and

pulmonary medicine      Gastrointestinal Endocrinology Jr. Greeley, 1998-12-31 Leading clinical and basic science researchers present the latest molecular and cellular findings on key gut peptides illuminating their physiology and pathophysiology as well as highlighting the regulatory mechanisms underlying their action in the intestinal tract The book focuses on gut peptide physiology and receptor pharmacology gut processing and receptor biology and on regulatory mechanisms in the gut including pancreatic feedback mechanisms Also included are chapters on the trophic effects of gut peptides on GI and pancreatic cancer the regulation of gut peptide gene expression and gastric secretion especially in diseased states      US National Institute of Health Handbook Volume 1 Strategic Information and Contacts IBP USA,

**Cumulated Index Medicus** ,1989



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