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# **SENSORY NERVES AND NEUROPEPTIDES IN GASTROENTEROLOGY**

**From Basic Science to  
Clinical Perspectives**

Edited by Marcello Costa,  
Calogero Surrenti, Sergio Gorini,  
Carlo Alberto Maggi, and Alberto Meli

# Sensory Nerves And Neuropeptides In Gastroenterology

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## **Sensory Nerves And Neuropeptides In Gastroenterology:**

Sensory Nerves and Neuropeptides in Gastroenterology Marcello Costa, Calgero Surrenti, Sergio Gorini, Carlo Alberto Maggi, Alberto Meli, 2013-11-21 In the past 15 years much evidence has accumulated which indicates the paramount importance of sensory nerves in regulating functions of the gastrointestinal tract In parallel the attention of researchers in this field has been increasingly attracted to the role played by neuropeptides in the normal and diseased gut Basic research on the peculiar properties of capsaicin the pungent ingredient from plants of the genus *Capsicum* has allowed the gap between these two areas of research to be bridged Since then the study of gut afferents and neuropeptides has become more and more interconnected and recognized as a major avenue to understanding the pathophysiology of various human diseases It is widely recognized that a certain subset of primary afferents synthesize store and release neuropeptides such as tachykinins and calcitonin gene related peptide from their central and peripheral endings the latter being widely distributed in the alimentary canal and related organs liver pancreas The First International Meeting on Sensory Nerves and Neuropeptides in Gastroenterology held in Florence from December 4-5 1989 sponsored and organized by Fondazione Internazionale Menarini aimed to focus the current status of research in this field The contributions presented at the meeting and in this book delineate a suggestive scenario in which sensory nerves of the gut and the multiple messages they carry through the release of neuropeptides are to be considered as a major target for the development of new drugs potentially useful in a number of diseases of the gastrointestinal tract

*Sensory Nerves and Neuropeptides in Gastroenterology* Marcello Costa, Calgero Surrenti, Sergio Gorini, 2014-09-01

**Neuropeptide Function in the Gastrointestinal Tract** Edwin E. Daniel, 2019-08-15 First published in 1991 This book assimilates and evaluates the rapidly accumulating information regarding neuropeptides in the gut their chemistry genetic control processing in enteric nerves the projections of their nerves their actions at the tissue cell and molecular levels and their roles in controlling gut motility in health and disease Neuropeptide Function in the Gastrointestinal Tract is directed to scientists in all disciplines who work with neuropeptides as well as physiologists interested in the neural and smooth muscle actions of neuropeptides

*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 *Current Catalog* National Library of Medicine (U.S.),1992 *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 Fayez 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

**Gastrointestinal Mucosal Repair and Experimental Therapeutics** C. -H. Cho,J. -Y. Wang,2002-05-07 Over the last decade considerable progress has been made in understanding cellular and molecular mechanisms involved in gastrointestinal mucosal injury and repair These findings provide the basis to identify the etiology and pathogenesis of various gut mucosal injury related diseases and to develop new therapeutic approaches The publication at hand is divided into three sections Epithelial restitution mucosal repair and ulcer healing and experimental therapeutics The first part highlights the early rapid mucosal restitution focussing on the roles of extracellular matrix cytoskeleton cytokines Ca<sup>2+</sup> signaling polyamines and the protein kinase C DAG pathways The next section deals with aspects of chronic mucosal healing concentrating on the roles of primary response gene expression angiogenesis and angiogenic growth factors platelets and the

mechanisms of cell renewal after injury in special circumstances The last part explores new therapeutic approaches stressing potential clinical applications of nitric oxide releasing agents polysaccharides nitric oxide synthase modulators growth factors prostaglandins and cyclooxygenase inhibitors Covering the current state of the art findings relevant to gut mucosal injury and repair as well as providing the underlying conceptual basis and knowledge regarding experimental therapeutics for gastrointestinal mucosal injury related diseases this publication will be a timely guide for investigators working in the field

**Regulatory Mechanisms in Gastrointestinal Function (1995)** Timothy S. Gagginella, 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

**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

**Cumulated Index Medicus**, 1987 **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1992 **Neuroendocrinology of Gastrointestinal Ulceration** Sandor Szabo, Yvette Taché, 2012-12-06 Proceedings of a meeting held in Esterel Quebec Canada September 13 15 1989

**Psychopharmacology Bulletin**, 1992 **Psychoneuroimmunology** Robert Ader, 2007 Psychoneuroimmunology is the study of interactions among behavioral neural and endocrine and immunologic processes of adaptation These two volumes provide a clearly written extensively referenced summary of some of the behavioral neural and endocrine regulators of immune

responses and immunologically mediated disease processes and of the behavioral and neuroendocrine effects of immune system activity Several chapters expand upon topics reviewed in earlier editions of this series most chapters cover active areas of research that have not previously been reviewed As illustrated in this fourth edition interdisciplinary research continues to provide evidence that the brain and immune system represent a single integrated system of defense

*Capsaicin - Sensitive Neural Afferentation and the Gastrointestinal Tract* Gyula Mozsik,Koji Takeuchi,Omar Abdel-Salam,2014-07-16 The capsaicin a component of paprika has been used in the culinary practice of every day nutritional practice This agent is known to cause a variety of actions in the body through activating capsaicin sensitive afferent neurons A recently launched book entitled Capsaicin Sensitive Neural Afferentation and the Gastrointestinal Tract from Bench to Bedside is attractive for several reasons First Prof Mozsik a chief editor of this book is known internationally as an expert in capsaicin pharmacology Since he has worked for many years as a head of internal medicine taking care of patients with various GI diseases he is able to make a correct interpretation of various findings obtained in basic researches to clinical events Second although there are many articles about capsaicin they mostly deal with basic research and finding but do not include much about clinical finding Third this book encompassed review articles written by internationally accepted scientists leading the field of capsaicin research who highlighted the current state of knowledge on pharmacology physiology and clinical pathophysiology of capsaicin sensitive afferent neurons and discussed directions for future research Overall this book is for people who are interested in the capsaicin action in body

*Body Fluid Balance* Elsworth R. Buskirk,Susan M. Puhl,1996-07-16 Body Fluid Balance Exercise and Sport brings you the latest thinking on important topics in this dynamic research area The authors of this authoritative compendium provide enlightening data and unique perspectives that will stimulate other investigators and supply independent analyses for practitioners and educators The book is efficiently organized into three sections Section one addresses control of body fluid during exercise Topics range from basic thirst mechanisms to specific organ control Section two discusses environmental influences on body fluid balance including heat cold altitude and immersion Section three describes special considerations affecting body fluid balance during exercise such as age gender physical performance and clinical complications Each chapter presents historical perspectives critical experiments appropriate analyses and pertinent conclusions Nowhere else will you find the information you need in such an easy to follow convenient format

Anatomical and Functional Alterations in Enteric Neurons Following Extrinsic Denervation of Guinea Pig Ileum Anne Marie R. Yunker,1995

Vascular Innervation and Receptor Mechanisms Rolf Uddman,2012-12-02 Vascular Innervation and Receptor Mechanisms New Perspectives reviews the areas of structure function and pathophysiology of the circulatory system The text focuses on the role of neuropeptides and structural function of endothelium The book begins with a brief discussion on the background of autonomic and sensory nerves in the circulatory system which is provided in Chapter 1 Having established the basic studies in the circulatory system the book moves to the

discussion on the analysis of peptidergic innervations and peptides in vascular control in various disorders The last part of the book features the clinical applications of neuropeptides perivascular peptides and vasoactive peptides in different diseases and regulation such as cardiovascular regulation hypertension congestive heart failure and migraine and cluster headache The text will be a good reference to both students and professionals in the fields of biology chemistry and 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

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