

# PHYSIOLOGY OF THE GASTROINTESTINAL TRACT

Volume 1

FIFTH EDITION

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# **Physiology Of The Gastrointestinal Tract Fifth Edition**

**Graeme Duthie, Angie Gardner**



# Physiology Of The Gastrointestinal Tract Fifth Edition

**Physiology of the Gastrointestinal Tract, Two Volume Set** Hamid M. Said, 2012-05-14 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

**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

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 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

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*Gastrointestinal Physiology E-Book* Leonard R. Johnson, 2018-08-18 Gain a foundational understanding of gastrointestinal physiology and how the GI system functions in health and disease Gastrointestinal Physiology a volume in the Mosby Physiology Series explains the fundamentals of this complex subject in a clear and concise manner while helping you bridge the gap between normal function and disease with pathophysiology content throughout the book Helps you easily master the material in a systems based curriculum with learning objectives Clinical Concept boxes highlighted key words and concepts chapter summaries self study questions and a comprehensive exam Keeps you current with recent advances in gastrointestinal physiology with coverage of the physiological significance

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**Physiology and Pathophysiology of Digestion** D. Neil Granger, James D. Morris, Peter R. Kvietys, 2018-10-26 This collaboration of two physiologists and a gastroenterologist provides medical and graduate students medical and surgical residents and subspecialty fellows a comprehensive summary of digestive system physiology and addresses the pathophysiological processes that underlie some GI diseases The textual approach proceeds by organ instead of the traditional organization followed by other GI textbooks This approach lets the reader track the food bolus as it courses through the GI tract learning on the way each organ s physiologic functions as the bolus directly or indirectly contacts it The book is divided into three parts 1 Chapters 1 3 include coverage of basic concepts that pertain to all or most organs of the digestive system salivation chewing swallowing and esophageal function 2 Chapters 4 6 are focused on the major secretory organs stomach pancreas liver that assist in the assimilation of a meal and 3 Chapters 7 and 8 address the motor transport and digestive functions of the small and large intestines Each chapter includes its own pathophysiology and clinical correlation section that underscores the importance of the organ s normal function

**Gastrointestinal Anatomy and Physiology** John F. Reinus, Douglas Simon, 2014-03-04 Gastroenterologists require detailed knowledge regarding the anatomy of the GI system in order to understand the disturbances caused by diseases they diagnose and treat Gastrointestinal Anatomy and Physiology will bring together the world s leading names to present a comprehensive overview of the anatomical and physiological features of the gastrointestinal tract Full colour and with excellent anatomical and clinical figures throughout it will provide succinct authoritative and didactic anatomic and physiologic information on all the key areas including GI motility hepatic structure GI hormones gastric secretion and absorption of nutrients GI trainees will enjoy the self assessment MCQs written to the level they will encounter during their Board exams and the seasoned gastroenterologist will value it as a handy reference book and refresher for re certification exams

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