



Physiology of the Gastrointestinal Tract, Fourth Edition (v. 1-2)

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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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Editorial Review

Review

PRAISE FOR THE THIRD EDITION:

"The encyclopedic nature of the book continues to make this an invaluable asset to anyone interested in gastrointestinal physiology and related fields. The extensive expansion of the section on regulation and the overall diversity of chapters from those on signal transduction to those on intestinal adaptation is very useful. . Rating: 4 Stars!"

-Doody Review Service

PRAISE FOR THE FOURTH EDITION:

"The writing is clear and the illustrations informative. Each chapter covers a subject in a thorough manner and there are extensive reference lists to document the points made in the text...The text is very detailed enabling readers to feel that they are current with the field after finishing a chapter."

- Charles M. Mansbach, II, M.D., Professor of Medicine and Physiology, University of Tennessee, Memphis

"**Physiology of the Gastrointestinal Tract** has been the benchmark text related to this specific topic for years, yet the last (third) edition was published more than a decade ago. During this period there have been many discoveries in GI pathobiology and, simultaneously, a recognition that this organ system is an elegant one for basic molecular discovery. That a relatively recent issue of *Science* was completely devoted to alimentary tract biology, speaks to this previous point. Thus the newly minted fourth edition of this work comes at an auspicious time. It does not disappoint. Basic chapters on physiology and growth are outstanding; examples being new contributions focused on the Wnt/Catenin and Notch pathways. Chapters are authored by leaders in the subfields, are clearly written, scientifically rigorous, and tend toward the comprehensive. This work imparts the flavor of organ function but does so by building up basic understanding such that it culminates in a more holistic picture; doing so based on science, not simply phenomena. This new edition is a delight and represents a critical resource for all serious students of the alimentary tract."

-James L. Madara, M.D., Dean, Division of Biological Sciences and the Pritzker School of Medicine University; Vice-President for Medical Affairs, The University of Chicago

"The table of contents of the fourth edition of the **Physiology of the Gastrointestinal Tract** is impressive, and brings together a wide range of true experts in their fields. The chapters are authoritative and up to date. There has been a real attempt to cover the entire field of GI Physiology. There is no other text that currently offers this degree of depth of coverage with monographs by leaders in their fields. This will be a wonderful resource for investigators in GI Physiology and for those educators who teach that subject."

-David H. Alpers, MD, William B. Kountz Professor of Medicine, Washington University School of Medicine, St. Louis, Missouri

From the Back Cover

PRE-PUBLICATION ENDORSEMENTS:

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—David H. Alpers, MD, William B. Kountz Professor of Medicine, Washington University School of Medicine, St. Louis, Missouri

About the Author

Leonard R. Johnson received a Ph.D. in physiology from the University of Michigan and then trained with Dr. Morton I. Grossman at UCLA. He spent 17 years as a Professor of Physiology at the University of Texas Medical School in Houston before moving to the University of Tennessee Health Science Center as the Thomas A. Gerwin Professor and Chairman of the Department of Physiology. He is the author or coauthor of over 250 papers on gastrointestinal physiology and holds an NIH MERIT Award. Currently he is the Vice Chancellor for Research at Tennessee.

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