

SEROTONIN and GASTROINTESTINAL FUNCTION

Edited by

T.S. Gagginella and J.J. Galligan

Serotonin And Gastrointestinal Function

H.-J. Krammer, M.V. Singer



Serotonin And Gastrointestinal Function:

Serotonin and Gastrointestinal Function Timothy S. Gaginella, James J. Galligan, 2020-09-10 Serotonin and Gastrointestinal Function provides a comprehensive review of current research into the mechanisms by which serotonin acts on gastrointestinal tissues This book covers neurochemistry physiology pharmacology and clinical issues relevant to serotonin in the gastrointestinal tract The editors have brought together the most relevant information from the molecular to the clinical level Each chapter is written by investigators experienced in research on serotonin's actions in the gut This book will be useful to basic scientists clinical investigators graduate and postgraduate students **Serotonin and Gastrointestinal Function** Timothy S. Gaginella, James J. Galligan, 1995-07-25 Serotonin and Gastrointestinal Function provides a comprehensive review of current research into the mechanisms by which serotonin acts on gastrointestinal tissues This book covers neurochemistry physiology pharmacology and clinical issues relevant to serotonin in the gastrointestinal tract The editors have brought together the most relevant information from the molecular to the clinical level Each chapter is written by investigators experienced in research on serotonin's actions in the gut This book will be useful to basic scientists clinical investigators graduate and postgraduate students **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 **Physiology of the Gastrointestinal Tract** Hamid M. Said, 2018-03-08 Physiology of the Gastrointestinal Tract Sixth Edition a Two Volume set covers the study of the mechanical physical and biochemical functions of the GI Tract by linking clinical disease and disorder thus bridging the gap between clinical and laboratory medicine while also covering breakthroughs in gastroenterology such as the brain gut axis and microbiome Additionally information is provided at the organism level including animal models of gastrointestinal disorders and therapeutic possibilities The book covers a wide range of conditions from food allergies constipation chronic liver disease and IBS also exploring emerging techniques to diagnose and normalize functions of the GI tract As a highly referenced book this is a useful resource for gastroenterologists physiologists internists professional researchers and instructors teaching courses for clinical and research students Discusses the multiple processes governing gastrointestinal function Presents new information on the brain gut axis and microbiome Edited by preeminent scientists in the field Includes coverage of issues such as food allergies constipation

chronic liver disease IBS Crohn s disease and more

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

Biotics and the Gut-Brain Axis in Neurological Disorders Neeraj Mishra,Sumel Ashique,Mithun Bhowmick,2025-11-24 This book reviews the pivotal role of prebiotics probiotics and postbiotics in modulating the gut brain axis offering insights into their potential therapeutic applications and impact on neurological health The initial chapters provide a foundational overview of prebiotics and introduce readers to the concept of the gut brain axis These chapters discuss bidirectional communication within the gut brain axis and the impacts of gut dysbiosis on neurological health Further chapters investigate the relationship between the gut brain axis and autoimmune diseases as well as the role of probiotics in major neurodegenerative diseases such as Alzheimer s and Parkinson s amyotrophic lateral sclerosis ALS Huntington s disease and conditions like multiple sclerosis MS epilepsy and seizures The book also examines the influence of prebiotics on mental health disorders such as anxiety and depression and their impact on ischemic stroke via the gut brain axis It further covers the role of probiotics in reactive oxygen species ROS and inflammation mediated neurodegenerative diseases and explores the correlation between gut microbiota malnutrition and neurological disorders The book explores signaling pathways within the gut brain axis and their relationships with neurological disorders the application of prebiotics as functional foods and the therapeutic potential of postbiotics and psychobiotics This book is intended for scientists and researchers in the fields of microbiology neuroscience and gastroenterology The book Provides a thorough understanding of prebiotics probiotics and postbiotics and their roles in the gut brain axis Explores bidirectional communication within the gut brain axis and its impact on neurological health Examines the relationship between the gut microbiota and various neurological disorders Discusses the influence of prebiotics and probiotics on mental health disorders such as anxiety and depression Investigates the connection between the gut brain axis and autoimmune diseases Covers advanced tools and bioinformatics approaches for studying gut microbiota and neurodegeneration

Neural Control of Gastrointestinal Function David Grundy,Simon Brookes,2011-12 The gastrointestinal tract is a long muscular tube responsible for the digestion of food assimilation of nutrients and elimination of waste This is achieved by secretion of digestive enzymes and absorption from the intestinal lumen with different regions playing specific roles in the processing of specific nutrients These regions come into play sequentially as ingested material is moved along the length of the GI tract by contractions of the muscle layers In some regions like the oesophagus transit it

rapid and measured in seconds while in others like the colon transit is measured in hours and even days commensurate with the relative slow fermentation that takes place in the large bowel. An hierarchy of controls neural and endocrine serve to regulate the various cellular targets that exist in the gut wall. These include muscle cells for contraction and epithelial cells for secretion and absorption. However there are complex interactions between these digestive mechanisms and other mechanisms that regulate blood flow, immune function, endocrine secretion and food intake. These ensure a fine balance between the ostensibly conflicting tasks of digestion and absorption and protection from potentially harmful ingested materials. They match assimilation of nutrients with hunger and satiety and they ensure that regions of the GI tract that are meters apart work together in a coordinated fashion to match these diverse functions to the digestive needs of the individual. This ebook will provide an overview of the neural mechanisms that control gastrointestinal function.

Table of Contents

Neural Control of Gastrointestinal Function

Cells and Tissues

Enteric Nervous System

From Gut to CNS

Extrinsic Sensory Innervation

Sympathetic Innervation of the Gut

Parasympathetic Innervation of the Gut

Integration of Function

References

Functional Gastrointestinal Disorders Simon R. Knowles, Julian Stern, Geoff Hebbard, 2017-08-03 This book brings together world experts in the field of Functional Gastrointestinal Disorders (FGIDs) who practice an integrated and holistic approach in their care for patients to provide an up to date and comprehensive evaluation of a range of issues associated with the biopsychosocial treatment of FGIDs. Examining topics such as neurological and biological aspects of FGIDs, common concerns faced in relation to diagnosis and ongoing medical decisions and interventions, each chapter provides crucial practical recommendations as well as future directions of psychosocial work in multi team environments. Functional Gastrointestinal Disorders considers individual conditions in detail including the current Rome IV diagnostic criteria for FGIDs required to make a positive diagnosis, the role of psychological and other biopsychosocial and biofeedback aspects of treatment and general recommendations with regard to diet and medications. Each chapter also provides an up to date consolidation and evaluation of the current literature as well as practical recommendations which can then be applied by the reader in their own interaction with FGID patients. Topics covered include the common concerns and issues faced by individuals with FGIDs in relation to pre and post diagnosis, ongoing medical decisions and interventions, review of current evidence based biopsychosocial treatment practices for each FGID condition, the differences and challenges associated with FGIDs across individual life stages, special topics such as the relationship with eating disorders and the role of psychotropic medications, modern patient centred initiatives such as patient empowerment, distance and e therapies, the future challenges facing FGID treatment. Throughout the entire book, common themes and practical recommendations are described. Functional Gastrointestinal Disorders has broad applicability across multiple spheres including treatment, research and teaching and is accessible to those working in gastroenterology and primary care alike.

Neurogastroenterology - From the Basics to the Clinics H.-J. Krammer, M.V. Singer, 2000-05-31 In the last decade, some outstanding progress has been made in the field

of neurogastroenterology a term which has been introduced to account for the crucial role of the enteric autonomic and central nervous system in the regulation of gastrointestinal functions in health and disease These proceedings of Falk Symposium No 112 on Neurogastroenterology From the Basics to the Clinics held in Freiburg Germany on 21 22 June 1999 reviews and discusses the fast growing knowledge in this field in order to initiate more interdisciplinary discussions along with new research Contributors include basic scientists clinicians of various specialities morphologists physiologists molecular biologists embryologists pharmacologists surgeons gastroenterologists and behavioural scientists interested in the central and the autonomic nervous system in relation to the gastrointestinal tract Neurochemistry and Biochemical Neuropharmacology of Drug Addiction Huma Ikram, 2025-06-22 Dive into the intricate world of addiction with Neurochemistry and Biochemical Neuropharmacology of Drug Addiction an essential guide that explores the complex neurochemical and molecular foundations of substance use disorders This comprehensive book unravels how drugs hijack the brain s reward systems delving into the roles of neurotransmitters such as dopamine serotonin and glutamate as well as stress pathways and neuroplasticity A valuable resource for researchers clinicians and students this text offers critical insights into the biochemical mechanisms driving addiction and paves the way for novel therapeutic strategies

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Table of Contents Serotonin And Gastrointestinal Function

1. Understanding the eBook Serotonin And Gastrointestinal Function
 - The Rise of Digital Reading Serotonin And Gastrointestinal Function
 - Advantages of eBooks Over Traditional Books
2. Identifying Serotonin And Gastrointestinal Function
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Serotonin And Gastrointestinal Function
 - User-Friendly Interface
4. Exploring eBook Recommendations from Serotonin And Gastrointestinal Function
 - Personalized Recommendations
 - Serotonin And Gastrointestinal Function User Reviews and Ratings
 - Serotonin And Gastrointestinal Function and Bestseller Lists
5. Accessing Serotonin And Gastrointestinal Function Free and Paid eBooks
 - Serotonin And Gastrointestinal Function Public Domain eBooks
 - Serotonin And Gastrointestinal Function eBook Subscription Services
 - Serotonin And Gastrointestinal Function Budget-Friendly Options
6. Navigating Serotonin And Gastrointestinal Function eBook Formats
 - ePub, PDF, MOBI, and More
 - Serotonin And Gastrointestinal Function Compatibility with Devices
 - Serotonin And Gastrointestinal Function Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Serotonin And Gastrointestinal Function
 - Highlighting and Note-Taking Serotonin And Gastrointestinal Function
 - Interactive Elements Serotonin And Gastrointestinal Function
8. Staying Engaged with Serotonin And Gastrointestinal Function

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Serotonin And Gastrointestinal Function
- 9. Balancing eBooks and Physical Books Serotonin And Gastrointestinal Function
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Serotonin And Gastrointestinal Function
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Serotonin And Gastrointestinal Function
 - Setting Reading Goals Serotonin And Gastrointestinal Function
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Serotonin And Gastrointestinal Function
 - Fact-Checking eBook Content of Serotonin And Gastrointestinal Function
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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