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Microbial Endocrinology

Mark Lyte *Editor*

# Microbial Endocrinology: Interkingdom Signaling in Infectious Disease and Health

*Second Edition*

 Springer

# Microbial Endocrinology Interkingdom Signaling In Infectious Disease And Health

**Mark Lyte, John F. Cryan**



## **Microbial Endocrinology Interkingdom Signaling In Infectious Disease And Health:**

**Microbial Endocrinology** Mark Lyte, Primrose P.E. Freestone, 2010-04-06 Microbial endocrinology represents a newly emerging interdisciplinary field that is formed by the intersection of the fields of neurobiology and microbiology. This book will introduce a new perspective to the current understanding not only of the factors that mediate the ability of microbes to cause disease but also to the mechanisms that maintain normal homeostasis. The discovery that microbes can directly respond to neuroendocrine hormones as evidenced by increased growth and production of virulence associated factors provides for a new framework with which to investigate how microorganisms interface not only with vertebrates but also with invertebrates and even plants. The reader will learn that the neuroendocrine hormones that one most commonly associates with mammals are actually found throughout the plant, insect, and microbial communities to an extent that will undoubtedly surprise many and most importantly how interactions between microbes and neuroendocrine hormones can influence the pathophysiology of infectious disease.

**Bioactive Compounds from Microbes** Roberto Mazzoli, Katharina Riedel, Enrica Pessione, 2017-06-02 Microorganisms have had a long and surprising history. They were invisible until invention of the microscope in the 17th century. Until that date, although they were extensively but unconsciously employed in food preservation, beer and wine fermentation, cheese, vinegar, yogurt, and bread making, as well as being the causative agents of infectious diseases, they were considered as not existing. The work of Pasteur in the middle of the 19th century revealed several biological activities performed by microorganisms including fermentations and pathogenicity. Due to the urgent issue to treat infectious diseases, the main cause of death at those times, the positive potential of the microbial world has been neglected for about one century. Once the fight against the evil strains was fulfilled, also thanks to the antibiotics industry, began to appreciate bacteria's beneficial characteristics and exploit selected strains as starters for both food fermentations and aroma, enzyme, and texturing agent production. However, it was only at the end of the 20th century that the probiotic potential of some bacteria, such as lactic acid bacteria and bifidobacteria, was fully recognized. Very recently, apart from the probiotic activity of *in toto* bacteria, attention has begun to be directed to the chemical mediators of the probiotic effect. Thanks also to the improvement of techniques such as transcriptomics, proteomics, and metabolomics, several bioactive compounds are continuously being discovered. Bioactive molecules produced by bacteria, yeasts, and virus-infected cells proved to be important for improving or impairing human health. The most important result of last years' research concerns the discovery that a very complex network of signals allows communication between organisms from intra-species interactions to inter-kingdom signaling. Based on these findings, a completely new approach has arisen: the system biology standpoint. Actually, the different organisms colonizing a certain environmental niche are not merely interacting with each other as individuals but should be considered as a whole complex ecosystem continuously exchanging information at the molecular level. In this context, this topic issue explores both antagonistic compounds, i.e. antibiotics, and multiple function

cooperative molecules improving the physiological status of both stimulators and targets of this network From the applicative viewpoint these molecules could be hopefully exploited to develop new pharmaceuticals and or nutraceuticals for improving human health     Immunology of the Oral Mucosa Lesley Ann Bergmeier,Nicolas Dutzan,Patricio C. Smith,Heleen

Kraan,2022-04-19     **Antibiotic resistance and its continuity in the environmental niche** Marina Spinu,Magdalena

Rzewuska,2023-01-30     *Virulence Mechanisms of Bacterial Pathogens* Indira T. Kudva,Nancy A. Cornick,Paul J.

Plummer,Qijing Zhang,Tracy L. Nicholson,John P. Bannantine,Bryan H. Bellaire,2016-06-01 Ground breaking overview of an enduring topic Despite the use of antibiotics bacterial diseases continue to be a critical issue in public health and bacterial pathogenesis remains a tantalizing problem for research microbiologists This new edition of *Virulence Mechanisms of Bacterial Pathogens* broadly covers the knowledge base surrounding this topic and presents recently unraveled bacterial virulence strategies and cutting edge therapies A team of editors led by USDA scientist Indira Kudva compiled perspectives from experts to explain the wide variety of mechanisms through which bacterial pathogens cause disease the host interface host cell enslavement and bacterial communication secretion defenses and persistence A collection of reviews on targeted therapies rounds out the seven sections of this unique book The new edition provides insights into some of the most recent advances in the area of bacterial pathogenesis including how metabolism shapes the host pathogen interface interactions across species and genera mechanisms of the secretion systems evasion survival and persistence mechanisms new therapies targeting various adaptive and virulence mechanisms of bacterial pathogens Written to promote discussion extrapolation exploration and multidimensional thinking *Virulence Mechanisms of Bacterial Pathogens* serves as a textbook for graduate courses on bacterial pathogenesis and a resource for specialists in bacterial pathogenicity such as molecular biologists physician scientists infectious disease clinicians dental scientists veterinarians molecular biologists industry researchers and technicians     The Gut-Brain Axis Niall Hyland,Catherine Stanton,2016-05-13 The Gut Brain Axis Dietary Probiotic and

Prebiotic Interventions on the Microbiota examines the potential for microbial manipulation as a therapeutic avenue in central nervous system disorders in which an altered microbiota has been implicated and explores the mechanisms sometimes common by which the microbiota may contribute to such disorders Focuses on specific areas in which the microbiota has been implicated in gut brain communication Examines common mechanisms and pathways by which the microbiota may influence brain and behavior Identifies novel therapeutic strategies targeted toward the microbiota in the management of brain activity and behavior     **Neurotransmitters in Plants** Akula Ramakrishna,Victoria Vladimirovna

Roshchina,2018-09-03 Key features Presents the latest trends and developments of neuromediators in plants Provides in depth coverage of plants enriched in neurotransmitters especially serotonin melatonin and dopamine and how they are used in medicine pharmacy and food nutrition Discusses the physiological role of the neurotransmitters biomediators in non nervous systems including the analysis of effects on the growth and development and stress defense Covers the occurrence

of the substances that act in human and animal nervous system in plants as a phenomenon of the universal irritability feature for biologists Reveals the occurrence and possible physiological functions of biogenic amines in plants food and human health New scientific data confirm the origin of neurotransmitters in the ancient ocean whose inhabitants use the compounds in their relationships One example is the algae *Ulvaria* whose image is represented on the cover During evolution plant and microbial cells stored the neurotransmitters that play multifunctional roles today Researchers have paid special attention to their functions in plants the oxygen well of our planet This book provides powerful tools for both analyzing and manipulating organisms considering the functions of neurotransmitters in plant cells and the practical application of knowledge about acetylcholine catecholamines serotonin melatonin histamine gamma aminobutyric acid and glutamine for ecology agriculture medicine and food industries *Neurotransmitters in Plants Perspectives and Applications* presents information on the location and biosynthesis where neurotransmitters occur the molecular biology of some enzymes participating in the process their role in vivo and in vitro processes their functions in plant environmental adaptation in plants their role in enriching the food and medicinal value of plants *Microbial Endocrinology: The Microbiota-Gut-Brain Axis in Health and Disease* Mark Lyte, John F. Cryan, 2014-07-05 The field of microbial endocrinology is expressly devoted to understanding the mechanisms by which the microbiota bacteria within the microbiome interact with the host us This interaction is a two way street and the driving force that governs these interactions are the neuroendocrine products of both the host and the microbiota Chapters include neuroendocrine hormone induced changes in gene expression and microbial endocrinology and probiotics This is the first in a series of books dedicated to understanding how bi directional communication between host and bacteria represents the cutting edge of translational medical research and hopefully identifies new ways to understand the mechanisms that determine health and disease **Bugs as Drugs** Robert A. Britton, Patrice D. Cani, 2020-07-02 Examining the enormous potential of microbiome manipulation to improve health Associations between the composition of the intestinal microbiome and many human diseases including inflammatory bowel disease cardiovascular disease metabolic disorders and cancer have been elegantly described in the past decade Now whole genome sequencing bioinformatics and precision gene editing techniques are being combined with centuries old therapies such as fecal microbiota transplantation to translate current research into new diagnostics and therapeutics to treat complex diseases *Bugs as Drugs* provides a much needed overview of microbes in therapies and will serve as an excellent resource for scientists and clinicians as they carry out research and clinical studies on investigating the roles the microbiota plays in health and disease In *Bugs as Drugs* editors Robert A Britton and Patrice D Cani have assembled a fascinating collection of reviews that chart the history current efforts and future prospects of using microorganisms to fight disease and improve health Sections cover traditional uses of probiotics next generation microbial therapeutics controlling infectious diseases and indirect strategies for manipulating the host microbiome Topics presented include How well established probiotics support and improve host health by improving the

composition of the intestinal microbiota of the host and by modulating the host immune response The use of gene editing and recombinant DNA techniques to create tailored probiotics and to characterize next generation beneficial microbes For example engineering that improves the anti inflammatory profile of probiotics can reduce the number of colonic polyps formed and lactobacilli can be transformed into targeted delivery systems carrying therapeutic proteins or bioengineered bacteriophage The association of specific microbiota composition with colorectal cancer liver diseases osteoporosis and inflammatory bowel disease The gut microbiota has been proposed to serve as an organ involved in regulation of inflammation immune function and energy homeostasis Fecal microbiota transplantation as a promising treatment for numerous diseases beyond C difficile infection Practical considerations for using fecal microbiota transplantation are provided while it is acknowledged that more high quality evidence is needed to ascertain the importance of strain specificity in positive treatment outcomes Because systems biology approaches and synthetic engineering of microbes are now high throughput and cost effective a much wider range of therapeutic possibilities can be explored and vetted If you are looking for online access to the latest clinical microbiology content please visit [www.wiley.com/learn/clinmicronow](http://www.wiley.com/learn/clinmicronow)

**Modeling the Transmission and Prevention of Infectious Disease** Christon J. Hurst, 2017-09-08 This volume focuses on blocking disease transmission and the ecological perspective of pathogens and pathogenic processes The chapters on blocking transmission cover the environmental safety of space flight biocides and biocide resistance as well as infection control in healthcare facilities The book also offers insights into the ecological aspects of infectious disease introducing the reader to the role of indigenous gut microbiota in maintaining human health and current discussions on environmentally encountered bacterial and fungal pathogens including species that variously cause the necrotizing skin disease Buruli ulcer and coccidioidomycosis Further it explores the influenza A virus as an example for understanding zoonosis It is a valuable resource for microbiologists and biomedical scientists alike

*Biology of Infectious Disease* Michael G. Milgroom, 2024-11-26

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