

Methods in Gut Microbial Ecology for Ruminants

Edited by
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Methods in Gut Microbial Ecology for Ruminants Harinder P.S. Makkar, Christopher S. McSweeney, 2006-02-23

As a result of various human activities such as increase in human population, decrease in arable land due to soil degradation, urbanization, industrialization, and associated increase in the demand for livestock products, dramatic changes are occurring in the global ruminant livestock sector. These changes include shifts in the size of regional livestock populations and in the types of management and feeding systems under which ruminant livestock are held, and increased demand for a wider range of quality attributes from animal agriculture, not just of the products themselves but also of the methods used in their production. The livestock sector will need to respond to new challenges of increasing livestock productivity while protecting the environment and human health and conserving biodiversity and natural resources. The microorganisms in the digestive tracts of ruminant livestock have a profound influence on the conversion of feed into end products which can impact on the animal and the environment. As the livestock sector grows, particularly in developing countries, there will be an increasing need to understand these processes for better management and use of both feed and other natural resources that underpin the development of sustainable feeding systems.

Improving rumen function Dr Chris McSweeney, Prof. Roderick I. Mackie, 2020-06-23

Reviews advances in understanding the role of different types of rumen microbiota such as archaea, anaerobic fungi, viruses, and the rumen wall microbial community. Covers both the way the rumen processes fibre and protein and factors affecting outputs such as energy, affecting animal health, lipids, affecting meat and milk quality, and methane emissions affecting environmental impact. Comprehensive review of the range of nutritional strategies to optimise rumen function such as the role of pasture, silage, cereal feed, plant secondary compounds, and probiotics.

Environmental and Agricultural Microbiology Bibhuti Bhusan Mishra, Suraja Kumar Nayak, Swati Mohapatra, Deviprasad Samantaray, 2021-09-22

Environmental and Agricultural Microbiology Uniquely reveals the state of the art microbial research advances in the environment and agriculture fields. *Environmental and Agricultural Microbiology: Applications for Sustainability* is divided into two parts which embody chapters on sustenance and life cycles of microorganisms in various environmental conditions, their dispersal, interactions with other inhabited communities, metabolite production, and reclamation. Though books pertaining to soil, agricultural microbiology, environmental biotechnology are available, there is a dearth of comprehensive literature on the behavior of microorganisms in the environmental and agricultural realm. Part 1 includes bioremediation of agrochemicals by microalgae, detoxification of chromium and other heavy metals by microbial biofilm, microbial biopolymer technology including polyhydroxyalkanoates (PHAs) and polyhydroxybutyrates (PHB), their production, degradability, behaviors, and applications. Biosurfactants production and their commercial importance are also systematically represented in this part. Part 2, having 9 chapters, facilitates imperative ideas on approaches for sustainable agriculture through functional soil microbes, next generation crop improvement strategies via

rhizosphere microbiome production and implementation of liquid biofertilizers mitigation of methane from livestock chitinases from microbes extremozymes an enzyme from extremophilic microorganism and their relevance in current biotechnology lithobiontic communities and their environmental importance have all been comprehensively elaborated In the era of sustainable energy production biofuel and other bioenergy products play a key role and their production from microbial sources are frontiers for researchers The final chapter unveils the importance of microbes and their consortia for management of solid waste in amalgamation with biotechnology Audience The book will be read by environmental microbiologists biotechnologists chemical and agricultural engineers

The Use of Phytogenic Feed Additives to Enhance Productivity and Health in Ruminants Ahmed E. Kholif,Uchenna Anele,Amlan Kumar Patra,Zora

Varadyova,2021-07-02 **Rumen microbiome dynamics and their implications in health and environment** Robert W Li,Christina D. Moon,Diego P. Morgavi,2023-07-06 *Microbial Community Modeling: Prediction of Microbial Interactions and Community Dynamics* Hyun-Seob Song,2018-07-04

This book is a printed edition of the Special Issue Microbial Community Modeling Prediction of Microbial Interactions and Community Dynamics that was published in Processes

Advances In The Understanding of The Commensal Eukaryota And Viruses Of The Herbivore Gut Joan Elizabeth Edwards,Sumit Singh Dagar,Sandra Kittelmann,Rosalind Ann Gilbert,2021-04-07 **Climate Change Impact on**

Livestock: Adaptation and Mitigation Veerasamy Sejian,John Gaughan,Lance Baumgard,Cadaba Prasad,2015-03-31 This volume addresses in detail both livestock s role in climate change and the impacts of climate change on livestock production and reproduction Apart from these cardinal principles of climate change and livestock production this volume also examines the various strategies used to mitigate livestock related GHG emissions and those which can reduce the impacts of climate change on livestock production and reproduction Presenting information and case studies collected and analyzed by professionals working in diversified ecological zones the book explores the influence of climate change on livestock production across the globe The most significant feature of this book is that it addresses in detail the different adaptation strategies and identifies targets for different stakeholders in connection with climate change and livestock production Further it puts forward development plans that will allow the livestock industries to cope with current climate changes and strategies that will mitigate the effects by 2025 Lastly it provides researchers and policymakers several researchable priorities to help develop economically viable solutions for livestock production with less GHG emissions promoting a cleaner environment in which human beings and livestock can live in harmony without adverse effects on productivity Given that livestock production systems are sensitive to climate change and at the same are themselves a contributor to the phenomenon climate change has the potential to pose an increasingly formidable challenge to the development of the livestock sector However there is a dearth of scientific information on adapting livestock production to the changing climate as such well founded reference material on sustaining livestock production systems under the changing climate scenarios in

different agro ecological zones of the world is essential By methodically and extensively addressing all aspects of climate change and livestock production this volume offers a valuable tool for understanding the hidden intricacies of climatic stress and its influence on livestock production *Applied and Environmental Microbiology*, 2007 Recent Advances and Perspectives on the Gastrointestinal Microbiota of Small Ruminants Anusorn Cherdthong, Einar Vargas-Bello-Pérez, Qing Zhang, Eric Altermann, Anil Kumar Puniya, Raffaella Tudisco, 2024-09-23 Ruminants are hoofed mammals with a unique digestive system that allows them to better create energy from fibrous plant material than other herbivores Small ruminants such as sheep and goats play an important role in global food security and nutrition as well as in the livelihoods of farmers and others along the food chain Due to the unique digestive systems of ruminants many major studies have focused on the effects of high concentrate diets on rumen fermentation ruminal acidosis and their microbial properties and functions Therefore paying attention to the intestinal health of small ruminants during the rapid fattening stage has important implications for their health and productivity Ruminants host a taxonomically diverse microbiota in their rumen which is generally considered to be the most efficient natural fermentation system Rumen microorganisms facilitate the degradation of otherwise indigestible plant fibres into absorbable compounds such as proteins and volatile fatty acids the main source of energy and nutrition for ruminants They are composed of a complex and dynamic assembly of bacteria fungi archaea protozoa and viruses Diets and additives directly affect the number and viability of rumen microorganisms **Gut microbiota: Allied with livestock nutrition, health, and welfare** Balamuralikrishnan Balasubramanian, Wen-Chao Liu, 2024-05-23 *Handbook of Milk Production, Quality and Nutrition* Tanmoy Rana, 2025-05-15 Handbook of Milk Production Quality and Nutrition emphasizes new applications to promote healthy milk production processing and product development in the milk industry highlighting the role clean milk has in the prevention of health and disease Sections cover the general aspects of milk production and its environmental impact on animal health explain milk's global nutritional appeal and its role as a source of both macro and micronutrients for human health address issues of lactose intolerance and how this ailment is perceived globally and discuss milk's relevance on bone ocular and gut health Finally the book brings awareness to milk's microbial pathogens toxins and heavy metals and health concerns while also updating on regulatory health and nutrition claims and recent legislative developments Discusses the nutritional physiochemical and functional aspects of milk from farm to table Highlights milk's role in bone oral and gut health Details safe and clean milk production processing and quality management practices Identifies various milk adulterations and their relevance to public health The Role of Nutritional Strategies in the Regulation of Gut Microbiota and Host Immune System Li Wang, Caihong Hu, Ming Fan, 2024-12-17 The gut microbiota not only plays important roles in many metabolic pathways but it also provides the host with a variety of functions that promote immune homeostasis immune responses and prevent pathogen colonization The gut microbiota as well as their metabolites and components are required for immune homeostasis and influence host

susceptibility to a wide range of immune mediated diseases and disorders The composition of the gut microbiota influences immune system development and modulates immune mediators which in turn affects the function of the intestinal barrier To this end This Research Topic aims to present and discuss the most recent evidence on the role of nutritional strategies in regulating gut microbiota and host immune system which will assist in understanding how nutritional strategies can promote immunity homeostasis and intestinal barrier function via the gut microbiota Large Animal Internal Medicine - E-Book Bradford P. Smith, Nicola Pusterla, 2019-05-21 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Veterinary Medicine Utilize a problem oriented approach to the diagnosis of diseases of horses cattle sheep and goats Large Animal Internal Medicine 6th Edition covers the diagnosis and management of disease in both ruminant and equine internal medicine As the first veterinary internal medicine text to use a problem based approach it offers discussions of over 150 clinical signs and manifestations as well as comprehensive coverage of laboratory and diagnostic testing New to this edition is a versatile online reference platform and coverage of conditions that exist in Europe Central and South America Australia and New Zealand In addition thoroughly revised and updated content includes new vaccines and vaccination protocols the most current laboratories for DNA genetic and PCR testing and colostrum supplements and replacers It's everything you need to stay up to date with the latest information on preventing and treating disease in large animals Discussions of over 150 clinical signs or manifestations of disease provide you with a problem based approach to diagnosis based on what you've observed and what laboratory tests reveal Causes of Presenting Signs boxes offer quick access to the common less common and uncommon diseases associated with manifestations or signs of disease Causes of Abnormal Laboratory Values boxes highlight the possible interpretations of abnormalities in clinical chemistry hematology blood proteins and clotting tests More than 200 expert authors contribute information in their areas of expertise for the most current authoritative information on each topic NEW Expert Consult platform provides a versatile digital resource including bonus content useful references and videos to meet the needs of practicing equine and large animal veterinarians NEW Global conditions of importance are covered including those previously not discussed that exist in Europe Central and South America Australia and New Zealand NEW Coverage of emerging and re-emerging diseases includes the new pathogen discovery NEW Assessment of vaccination status and susceptibility to infection discusses how antibody titers can predict protection for some pathogens NEW Description of epigenetics and metagenomics provides detailed coverage of these emerging areas of interest NEW Table of zoonoses obtained from large animals includes symptoms and disinfection needs NEW Videos demonstrate how to perform ultrasound imaging on an equine and cow abdomen clearly showing where to position the probe and what depth to use for scans of the kidneys liver and bowel NEW Coverage of genetic disorders Hydrocephalus in Friesians and Pulmonary hypoplasia with Anasarca in Dexter cattle help you to treat these disorders NEW Extensively updated content clarifies the latest research and clinical findings on the West Nile Virus therapeutic drug monitoring muscle disorders GI microbiota the

genetic basis for Immune mediated myositis in Quarter Horses discoveries in antimicrobial drugs anthelmintic and vaccines and more

Rumen Microbiology: From Evolution to Revolution Anil Kumar Puniya, Rameshwar Singh, Devki Nandan Kamra, 2015-07-11 This book offers an in depth description of different groups of microbes i.e. bacteria protozoa fungi and viruses that exist in the rumen microbial community and offers an overview of rumen microbiology the rumen microbial ecosystem of domesticated ruminants and rumen microbial diversity It provides the latest concepts on rumen microbiology for scholars researchers and teachers of animal and veterinary sciences With this goal in mind throughout the text we focus on specific areas related to the biology and complex interactions of the microbes in rumen integrating significant key issues in each respective area We also discuss rumen manipulation with plant secondary metabolites microbial feed additives utilization of organic acids selective inhibition of harmful rumen microbes and omics approaches to manipulating rumen microbial functions A section on the exploration and exploitation of rumen microbes addresses topics including the current state of knowledge on rumen metagenomics rumen an underutilized niche for industrially important enzymes and ruminal fermentations to produce fuels We next turn our attention to commercial applications of rumen microbial enzymes and to the molecular characterization of euryarchaeal communities within an anaerobic digester A section on intestinal disorders and rumen microbes covers acidosis in cattle urea ammonia metabolism in the rumen and nitrate nitrite toxicity in ruminant diets Last the future prospects of rumen microbiology are examined based on the latest developments in this area In summary the book offers a highly systematic collection of essential content on rumen microbiology

Community series in the wildlife gut microbiome and its implication for conservation biology, volume II Lifeng Zhu, Jianjun Wang, 2024-01-03

Gut Health: The New Paradigm in Food Animal Production Ryan J. Arsenault, Michael H. Kogut, 2016-11-02 Gut health and specifically the gut microbiome host interaction is currently a major research topic across the life sciences In the case of animal sciences research into animal production and health the gut has been a continuous area of interest Production parameters such as growth and feed efficiency are entirely dependent on optimum gut health In addition the gut is a major immune organ and one of the first lines of defense in animal disease Recent changes in animal production management and feed regulations both regulatory and consumer driven have placed added emphasis on finding ways to optimize gut health in novel and effective ways In this volume we bring together original research and review articles covering three major categories of gut health and animal production the gut microbiome mucosal immunology and feed based interventions Included within these categories is a broad range of scientific expertise and experimental approaches that span food animal production Our goal in bringing together the articles on this research topic is to survey the current knowledge on gut health in animal production The following 15 articles include knowledge and perspectives from researchers from multiple countries and research perspectives all with the central goal of improving animal health and production

Microbiota of the Human Body Andreas Schwartz, 2016-05-09 Microbes can now be found in nearly every niche the human body offers

However the complexity of the microbiota of a given site depends on the particular environmental condition thereof Only microbes which are able to grow under these conditions will prevail Recent publications imply that the microorganisms do not only have multiple critical consequences for host physiological processes such as postnatal development immunomodulation and energy supply but also effects on neurodevelopment behavior and cognition Within this book we will focus on the techniques behind these developments epigenomics and on the various parts of the human body which are inhabited by microorganism such as the mouth the gut the skin and the vagina In addition chapters are dedicated to the possible manipulations of the microbiota by probiotics prebiotics and faecal transplantation **Laboratory Protocols in**

Fungal Biology Vijai Kumar Gupta, Maria Tuohy, 2022-02-03 Mycology has an integral role to play in the development of the biotechnology and biomedical sectors It has become a subject of increasing importance as new fungi and their associated biomolecules are identified As this discipline comes to the forefront of research in these sectors the requirement for a consolidation of available research approaches is required The First Edition of this book has a few basic and applied protocols With the Second Edition this book provides consolidated information on recent developments and the most widely used mycological methods available in the fields of biochemistry biotechnology and microbiology The methods outlined offer clear and concise directions to the reader and covers both standard protocols and more applied mycological methods This book provides useful information for undergraduates post graduates and specialists and researchers studying fungal biology

Microbiomes Eugene Rosenberg, 2021-03-02 This book examines an important paradigm shift in biology Plants and animals traditionally viewed as individuals are now considered to be complex systems and host to a plethora of microorganisms After first presenting historical aspects of microbiota research bacterial compositions of individual microbiomes and the critical analysis of current methods the book discusses how microbial communities inside the human body are profoundly affected by numerous factors such as macro and micro nutrients physical exercise antibiotics gender and age As described by current research the author highlights how microbiomes contribute to the fitness of the host by providing nutrients inhibiting pathogens aiding in the storage of fat during pregnancy and contributing to development and behavior The author not only focusses on prokaryotic components in microbiomes but also addresses single cell eukaryotes and viruses This follow up to the successful book The Hologenome Concept Human Animal and Plant Microbiota published in 2013 provides a contemporary overview of microbiomes It appeals to anyone working in the life sciences and biomedicine

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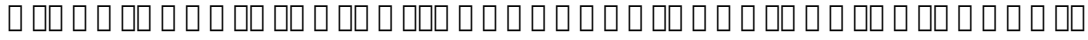

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