



# Gut Environment In Pigs

**Prof Dominiek Maes, Prof Joaquim  
Segalés**



## **Gut Environment In Pigs:**

**Gut Environment of Pigs** J. E. Lindberg, K. E. Bach Knudsen, A. Piva, 2020-11-22 This detailed volume discusses two main subjects concerning pigs the mechanisms that determine their gastrointestinal tract's ability to withstand potential damage and the European Union's use of feed additives and probiotics instead of antibiotics as growth promoters Gut efficiency; the key ingredient in pig and poultry production J.A. Taylor-Pickard, P. Spring, 2023-08-28 Globally the face of pig and poultry production is changing The global emphasis on ethanol production has diverted significant proportions of grain away from animal production thus increasing the cost of feed This has forced the pig and poultry industries to scrutinise their production methods investigating alternative feed ingredients together with methods of improving productivity and efficiency in order to survive This edited collection of papers is taken from a series of seminars that brought together some of the world's leading authorities in the field of pig and poultry nutrition and production The fundamental theme is to address the interaction between nutrition and the gut ecosystem as a means to enhance health performance and ultimately profitability The importance of gut development and the intestinal ecosystem as a whole and their impact on health and disease are covered in depth The roles of specific feed ingredients are also discussed Gut efficiency the key ingredient in pig and poultry production is aimed at nutritionists and animal producers as well as students and researchers studying animal and applied biological sciences

**Understanding gut microbiomes as targets for improving pig gut health** Prof. Mick Bailey, Emeritus Professor Chris Stokes, 2022-01-11 Provides a comprehensive coverage of the key ecosystem services delivered by the gut microbiome Analysis of the pig gut microbiome and its relationship with the pig gastrointestinal tract In depth focus on the techniques available to optimise gut function as a means for improving pig gut health

**Environmental effects on gut health in production animals** Mike Kogut, Mariano Fernandez-Miyakawa, 2024-08-19 Optimal gut health is of vital importance to the performance of production animals fish poultry swine cattle Gut health is key to making the productivity well being and sustainability of animal production more efficient Directly and indirectly the environment is a powerful regulator of gastrointestinal physiology that decisively influences the functional state of the animal Production animals reared under conventional conditions of intensive production are subjected to various exogenous and endogenous sources of environmental factors that can impact gut health Exogenous factors are environmental stressors derived from external sources connected with diet infectious disease mycotoxin exposure climate heat and cold management practices biosecurity level housing litter feed access quality and components Endogenous factors are host related such as age sex genetics and breed or are made within the host's body such as hormones and neurotransmitters in response to a stimulus stressor or trigger Endogenous factors serve to communicate signals both locally and distantly in the body Understanding the interactions between the diverse environmental factors and the different physiological characteristics of the gastrointestinal tract allows us to advance the understanding of gut health and the ability to regulate animal production The spirit of this

book is to critically address how the interactions of different environmental stressors both internal and external influence the various functions of the gastrointestinal system of production animals and to be able to use the information to advance scientific research as well as improve the use of the productive tools available

**Gut Microbiota, Immunity, and Health in Production Animals** Michael H. Kogut, Glenn Zhang, 2022-01-19 This work sheds new light on the interplay between the gut microbiota and host physiological processes in production animals The gut microbiome shapes health and susceptibility to disease and has become a leading area of research in the animal sciences Gut health encompasses a number of physiological and functional features Nutrient digestion and absorption host metabolism and energy generation a stable microbiome mucus layer development barrier function and mucosal immune responses all of which are required to interact to make an animal perform physiologically and according to its greatest genetic potential This carefully presented book broadens our vision approach and results on gut health and the ability to regulate animal production Understanding the chemistry of microbiomes has broad implications including providing functional annotations for the microbial genomes insights into the chemical languages that link microbes to each other and to their host and translational implications for precision veterinary medicine environmental health and sustainable animal agriculture and welfare Experts working in microbiome research host immunity and animal production veterinarians and researchers in livestock science will understand the great importance of this volume

**Potential of cereal grains and grain legumes for modulation of pigs' intestinal microbiota** Tobias Aumiller, 2015-09-10 Native carbohydrate fractions of major dietary components in pig nutrition such as dietary fiber resistant starch and oligosaccharides in whole cereal grains or grain legumes appear to be appropriate to manipulate the porcine gut microbiota Therefore the objective of this thesis was to evaluate effects of differences in carbohydrate composition of cereal grains grain legumes and feed supplements on the intestinal microbiota in pigs Based on a comprehensive literature research an overview on the current research on the effect of whole grain cereals and grain legumes as well as their by products on the pigs intestinal microbiota in relation to their carbohydrate composition was given An in vivo experiment was carried out to determine the effects of 8 recently introduced genotypes of barley or wheat on ileal and fecal microbiota of grower pigs by means of quantitative real time PCR In addition in a second experiment the effect of ultra fine ground fibers from wheat lupins and peas in comparison to inulin and basal substrates on the microbiota composition and formation of microbial metabolites was determined in vitro using the modified Hohenheim Gas Test In agreement with previous studies the potential to modulate the pigs intestinal microbiota with cereal grains and feed supplements based on cereal grain or grain legume fibers was shown However it was not possible to assign the observed effects on the bacterial groups to the dietary carbohydrates known to influence the intestinal microbiota such as arabinoxylan or glucan

**Recent Advances in Animal Nutrition 2008** P. C. Garnsworthy, J. Wiseman, 2009-09-01 Authored by international experts in the animal production industry this record of the proceedings of the 42nd University of

Nottingham Feed Conference explores topics such as the improvements of feed efficiency the impact of biofuel co products the use of enzymes to increase nutritive value and the techniques for coping with disease outbreaks Filled with comprehensive analyses of the issues as well as practical applications this is an essential read for researchers consultants animal science students legislators and practitioners The newest volume in the series this detailed account contains the most recent information in the livestock industry Gastrointestinal Nutrients-Microbiome-Host Interactions in Livestock Jinxin

Liu,2024-02-01 **Instant Insights: Developing immunity in pigs** Prof Bert Devriendt,Prof. Mick Bailey,Emily Porter,Ore Francis,Professor Glen Almond,Sara D. Hough,Dr P. Bosi,Dr D. Luise,Dr P. Trevisi,2022-07-26 This collection features four peer reviewed literature reviews on developing immunity in pigs The first chapter provides an overview of the latest research in gut function and immunity in pigs as well as the role of the gut microbiota in shaping intestinal immune responses The chapter also reviews recent advances in the development of novel tools to investigate the function of the pig gut The second chapter describes the enteric and mucosal immune systems of pigs and presents evidence from experimental studies of the links between the immune system and microbiota It examines the microbiome and metabolism of pigs and highlights its importance in the development of pig immune systems The third chapter reviews advances in nutritional strategies to boost immune function in pigs including the use of lipopolysaccharide to stimulate the immune system The chapter considers the need to reduce the use of antimicrobials in swine diets and reviews the effect of dietary supplementation during key stages of a pig s life to enhance immunity The final chapter assesses methods of improving gut function in pigs to optimise health prevent pathogen colonization and optimise immunity The chapter discusses research on genes associated with pathogen resistance and porcine immune response and reviews the role of dietary and nutritional strategies in preventing intestinal pathogen colonisation The Potential Role of Gut Microbiome in Animal Gut-Linked Diseases Tang Zhaoxin,Yung-Fu Chang,Mujeeb Ur Rehman,Hui Zhang,2023-04-26 **Optimising pig herd health and production**

Prof Dominiek Maes,Prof Joaquim Segalés,2022-10-31 Summarises the wealth of research on optimising pig herd health for increased protection against major diseases including ASF and PRRS Reviews recent advances in understanding gut function and immunity in pigs including the development of nutritional strategies to boost immune function and resistance to disease Explores key challenges facing pig production including breeding disease resistant pigs with a narrowing genetic base and the development of fungicide resistance **Instant Insights: Optimising pig nutrition** Professor Robert van Barneveld,Robert J. E. Hewitt,Darryl N. D'Souza,Dr Sam Millet,Nadia Everaert,Dr Barbara U. Metzler-Zebeli,Charlotte Lauridsen,J. Jacques Matte,Dr Marta López-Alonso,Dr Marco García-Vaquero,Prof Marta Miranda,2023-04-18 This collection features five peer reviewed reviews on optimising pig nutrition The first chapter considers advances in nutritional requirements and metabolism and how these contribute to the sustainable production of pig meat including the need to maintain sow body condition throughout gestation and lactation and ways of reducing variation in

pork production systems The second chapter discusses the essential contribution of balanced energy and protein levels in achieving optimal health in pigs It includes a case study which illustrates how characteristics of feed form and structure may have contradictory impacts on the gastric health and performance of pigs The third chapter summarises current knowledge on the effects of prebiotic oligosaccharides on porcine gut function and health focussing on the effects on gut functions in the early postnatal phase The fourth chapter addresses recent advances in understanding the role of vitamins in porcine diets It outlines their importance for some aspects of oxidative mechanisms including the development and competence of the immune system The final chapter summarises the nutritional attributes of macroalgae in terms of macro and micronutrients as a source of protein and other compounds in pig nutrition

*Nutritional Physiology and Gut Microbiome* Jia

Yin, Konstantinos Papadimitriou, Tingtao Chen, Peng Huang, 2023-06-22 The gut microbiota is the largest symbiotic ecosystem in the host and has been demonstrated to play an important role in maintaining intestinal homeostasis The symbiotic relationship between the microbiota and the host is mutually beneficial The host provides important habitat and nutrients for the microbiome The gut microbiota supports the development of the metabolic system and the intestinal immune system s maturation Intestinal microbes ingest dietary components such as carbohydrates proteins and lipids and the metabolites are reported to directly or indirectly affect human health Therefore there is an inseparable relationship between the gut microbiota and the nutrition of the host

*Parent-offspring Integration: Gut Health and Physiological Functions of Animals*

Xiangfeng Kong, Rajesh Jha, 2022-02-15 **Nutrition and health of the gastrointestinal tract** M.C. Blok, H.A. Vahl, L. de Lange, A.E. v.d. Braak, G. Hemke, M. Hessing, 2023-08-28 Microbial agents particularly bacteria represent the greatest risk to public health The traditional end product oriented food inspection systems are inadequate for identifying and eliminating the usually symptomless animal carriers of agents causing foodborne infections and intoxications Modern risk based prevention approaches are the only effective way to reduce the prevalence of these hazards from our foods As an additional safety valve microbial decontamination procedures are currently being suggested and its implementation in industrial food processing has at least in some parts of the world met with governmental approval The residues in foods of some non microbial agents have more recently also caused substantial consumer disquiet This equally applies to non conventional foods containing GMO s In this publication these issues are addressed by invited expert scientists from various disciplines many of which have key positions in EU funded research programmes on these very topics and or are advisers to international public health bodies The editors firmly believe that the very nature of the theme the excellence of the papers and the holistic approach chosen will draw an audience from both an industry and academic background

*The Welfare of Pigs* Jeremy N.

Marchant-Forde, 2008-11-26 The domestic pig is perceived as an animal with intelligence and character and yet in the industrialized world the majority of people have had little or no contact with them Pigs are subject to a wide range of environments from the tropics to the sub arctic ranging from small scale extensive systems to large scale intensive systems

They may spend their whole life on one farm or may be subject to long distance transport multiple times Not surprisingly many aspects of their life experiences can impact their welfare This book brings together a team of leading pig welfare research scientists to review the natural history of the pig the welfare of pigs at different stages of life and to indicate what the future holds in terms of pig welfare The text is aimed at researchers and teachers working in veterinary and animal science together with those working in the pig industry and for governmental and non governmental animal welfare organizations **Manual of Environmental Microbiology** Cindy H. Nakatsu,Robert V. Miller,Suresh D. Pillai,2020-08-11

The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology Food Science and Technology Bulletin Glenn R. Gibson,2009

This book is a journal that delivers concise and relevant peer reviewed minireviews of developments in selected areas of functional foods Direct-Fed Microbials and Prebiotics for Animals Todd R. Callaway,Steven C. Ricke,2011-12-15 The practice of supplementing direct fed microbial and prebiotic additives to domestic animals during growth is becoming more widespread in food animal production Beneficial effects particularly in cattle pigs and poultry including improved general health foodborne pathogen reduction more efficient food utilization faster growth rate and increased milk and egg production are common results The success associated with direct fed microbial and prebiotic applications in multiple species ensures their continued commercialization and the widespread use of such additives However several fundamental questions remain about how and why probiotic products work and which kind of probiotic products are best for specific production scenarios It appears that early establishment and retention of an ecological balance in the gastrointestinal tract is an important first step for an external biological additive to be effective in young animals Therefore it is possible that the effectiveness of direct fed microbials and prebiotics in some animal species may only be an indirect consequence of speeding up the establishment and

succession of the dominant microflora characteristic of the adult gastrointestinal tract. Consequently, an understanding of the key processes during establishment of microflora in the gastrointestinal system that lead to the subsequent fermentation characteristics and ecological balance exhibited by the highly protective microflora is needed. Several additional areas of future research directions are also suggested for further development and implementation of these biological approaches as new molecular and drug delivery technologies become available. Continued research on direct fed microbials and prebiotics in general should markedly expand their commercial applications.

*Weaning the pig* J.R. Pluske, J. Le Dividich, M.W.A. Verstegen, 2023-08-28

*Weaning the Pig: Concepts and Consequences* is a new book that addresses the major issues surrounding the weaning process both for piglets and the breeding herd in modern day pig production. The post-weaned pig presents many challenges to the manager, stockperson, and nutritionist, and as such is a critical phase in the overall production system. Numerous challenges are also faced by the sow, which is required to be rebred as soon as possible after weaning. This book draws together summaries of research dealing with both piglets and the sow and is a unique book in this regard. Accordingly, the material presented covers in detail the following areas associated with the weaning process: growth of the weaned pig, nutritional management in preparation for weaning, behavioural changes and adaptations around weaning, voluntary feed intake, digestive physiology, modulation of small intestinal integrity, the intestinal microflora, and diarrhoeal diseases after weaning, intestinal immunity, nutritional requirements, and intestinal requirements of the weaned pig, environmental and housing issues after weaning, saving and rearing supernumerary and underprivileged piglets, and productivity and longevity of the weaned sow. The chapters have been written by acknowledged experts from around the world. The book is an ideal reference for all professions associated with the pig industry and is invaluable as a text for students at both undergraduate and postgraduate levels.



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