

Aspects of Digestive Physiology in Ruminants

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Alan Dobson and Marjorie J. Dobson, Editors

Aspects of
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Aspects Of Digestive Physiology In Rumin

Alan Dobson



Aspects Of Digestive Physiology In Rumin:

Aspects of Digestive Physiology in Ruminants Alan Dobson, 2019-05-15 Fundamental research on sheep and cows has often provided answers to significant questions not only for investigators of the gastrointestinal tract of ruminant and other species but also for workers in practical areas such as world food supplies animal husbandry and medical practice This book is an interdisciplinary survey of some of the most recent advances in ruminant research especially on comparative aspects of the digestive tract Fourteen articles by an international group of leading scientists cover a wide range of topics comparative anatomy related to digestive function microbial ecology pathophysiology neurophysiology endocrinology ionic transport energy intermediary and mineral metabolism and differential rate of flow of digesta

Principles of Protein Nutrition of Ruminants J. Malcolm Asplund, 1994-03-14 Principles of Protein Nutrition of Ruminants is a cutting edge examination of the current state of knowledge in this important field It explores current techniques and concepts pointing out limitations to these techniques and introducing ideas and criticisms that will be useful in developing new paradigms for research The scope of the book covers the whole spectrum of investigation from grazing behavior of wild ruminants to cellular and molecular phenomena Unique aspects of the book include its emphasis on the energy status of the animal as the primary factor in affecting amino acid supply and its discussion of the nature of nitrogenous compounds in feedstuffs

Physiological Aspects of Digestion and Metabolism in Ruminants T. Tsuda, Y. Sasaki, R. Kawashima, 2012-12-02 This volume is comprised of invited papers presented at the Seventh International Symposium on Ruminant Physiology held in Sendai Japan in September 1989 Papers are invited on the recommendations of 300 international experts The proceedings of this symposia provides the most comprehensive coverage available of current research in ruminant physiology

Digestive Physiology and Metabolism in Ruminants Y. Ruckebusch, P. Thivend, 2012-12-06 Two questions could not be avoided in the avant propos of this book i what is the importance to man of ruminant livestock and ii what results of practical relevance in the growing mountain of scientific verbiage could be found in the Proceedings of this Symposium Herbivores are an integral and critical part of the natural ecosystem which must be preserved because of their impact on human welfare Wh at makes ruminants especially important to man is that they can thrive on fibrous forage and are thus the only viable enterprise over much of the earth s surface where crop growing is impracticable They contribute a wide array of products in addition to 50000 000 tonnes of meat 1977 and represent a capital reserve that can be drawn upon in times of emergency milk for example 450000000 tonnes can make the difference between subsistence and starvation About 60% of the world s meat and 80 % of the milk are produced by one third of the world ruminant population in the developed regions and as much as 99 % of the power for agriculture is provided by the ruminant population in developing countries For the next two decades a probable increase by 30 % for cattle and buffalo and more than 40 % for sheep and goats is expected by improving health fertility nutrition and genetic potential rather than feed resources

Rumen Microbial Metabolism and Ruminant Digestion J. P. Jouany, 1991 This book

brings together the data of latest international research and was conceived as the result of a summer school held at the INRA Centre of Clermont Ferrand Theix from 24 September to 4 October 1990 The subject is the rumen as a fermentor and the means by which rumen functioning can be optimized for the maximum benefit of the ruminant Nutritional Ecology of the Ruminant Peter J. Van Soest, 2018-09-05 This monumental text reference places in clear perspective the importance of nutritional assessments to the ecology and biology of ruminants and other nonruminant herbivorous mammals Now extensively revised and significantly expanded it reflects the changes and growth in ruminant nutrition and related ecology since 1982 Among the subjects Peter J Van Soest covers are nutritional constraints mineral nutrition rumen fermentation microbial ecology utilization of fibrous carbohydrates application of ruminant precepts to fermentive digestion in nonruminants as well as taxonomy evolution nonruminant competitors gastrointestinal anatomies feeding behavior and problems of animal size He also discusses methods of evaluation nutritive value physical structure and chemical composition of feeds forages and broses the effects of lignification and ecology of plant self protection in addition to metabolism of energy protein lipids control of feed intake mathematical models of animal function digestive flow and net energy Van Soest has introduced a number of changes in this edition including new illustrations and tables He places nutritional studies in historical context to show not only the effectiveness of nutritional approaches but also why nutrition is of fundamental importance to issues of world conservation He has extended precepts of ruminant nutritional ecology to such distant adaptations as the giant panda and streamlined conceptual issues in a clearer logical progression with emphasis on mechanistic causal interrelationships Peter J Van Soest is Professor of Animal Nutrition in the Department of Animal Science and the Division of Nutritional Sciences at the New York State College of Agriculture and Life Sciences Cornell University

Nutrient Requirements of Small Ruminants National Research Council (U.S.). Committee on Nutrient Requirements of Small Ruminants, 2007-01-05 Proper formulation of diets for small ruminants depends on adequate knowledge of their nutrient requirements **Gastrointestinal Microbiology** Roderick Mackie, Bryan White, 2012-12-06 Extremely diverse and complicated bacterial and protozoan populations inhabit the rumen and intestinal tract of animals and there is a delicate balance among the individual populations within this complex microbial community This authoritative edited volume the first in a two volume set reviews the gut environment and the fermentations taking place in animal digestive tracts It is an essential source of reference for microbial ecologists and physiologists medical microbiologists and gastroenterologists biochemists nutritionists veterinarians and animal scientists and wildlife ecologists **Gastrointestinal Microbiology** Rod I. Mackie, Bryan White, Richard E. Isaacson, 1997-01-31 Extremely diverse and complicated bacterial and protozoan populations inhabit the rumen and intestinal tract of animals and there is a delicate balance among the individual populations within this complex microbial community This authoritative edited volume the first in a two volume set reviews the gut environment and the fermentations taking place in animal digestive tracts It is an essential source of reference for microbial

ecologists and physiologists medical microbiologists and gastroenterologists biochemists nutritionists veterinarians and animal scientists and wildlife ecologists

Modeling Ruminant Digestion and Metabolism R.L. Baldwin, 1995-05-31 Role of ruminants in human food production Why an animal scientist would choose to model animal systems Basic organization of this book Modeling principles and terminology Classification of models Objectives in modeling The modeling process I objective statements block diagrams equation forms and parameterization Steps in modeling Setting the modeling objective Block diagrams Formulation of mathematical statements Development of numerical inputs The modeling process II solution algorithms model evaluations and parameter estimation Model solution algorithms Evaluation of management and research models Evaluation and use of analytical models for parameter estimation Decision support software Animal energetic models Thermodynamic concepts in nutrition Historical development of bases for feeding system models Energy requirements for maintenance and production Equations used to estimate maintenance and costs of production Components of maintenance Protein and amino acid models Current protein and amino acid systems Analytic models of amino acid and protein metabolism Dynamic modeling Biology and algebraic models of ruminant digestion The rumen microbes and their metabolism Balance models of ruminant digestion An analytical model of rumen digestion Microbial growth elements Biology and algebraic models of growth Classical equations for growth Nutritional models of growth Concepts of the basic biology of growth used in mechanistic models Biology of lactation Recent evolution of feeding systems for lactating dairy cattle An analytical model of nutrient transactions during lactation Dynamic models of ruminant digestion Early dynamic models Current dynamic models Dynamic models of ruminant adipose tissue metabolism Evolution of steady state balance model Radioisotope tracer elements Dynamic models of ruminant mammary metabolism Development of model inputs and initial parameters Descriptions of a model of mammary gland metabolism Dynamic models of liver and viscera metabolism Overall structure and notation Mechanistic dynamic models of growth Beef growth models Sheep growth and metabolism model Lactation Background on MOLL Y CSL The program MOLL Y CSL Evaluation and use of a growth and lactation model Behavioral analyses Sensitivity analyses Bioeconomic analyses

Comparative Physiology of the Vertebrate Digestive System C. Edward Stevens, Ian D. Hume, 2004-11-25 This book discusses the structural and functional characteristics of the digestive system and how these vary among vertebrates

Antioxidants in Muscle Foods Eric A. Decker, Cameron Faustman, Clemente J. Lopez-Bote, 2000-02-14 A complete guide to the use of dietary antioxidants in muscle food products Advances in food and animal science have given rise to a variety of nutritional strategies for improving the quality of muscle food products from livestock to fish *Antioxidants in Muscle Foods* describes a new methodology in this emerging field which involves the use of dietary antioxidants to improve meat quality while avoiding exogenous food additives or packaging procedures Through expert contributions by leading scientists from around the globe this important book answers questions about the science and technology benefits and concerns associated with antioxidant supplementation in muscle foods

Photographs illustrations charts and tables accompany in depth discussions on Oxidative processes in muscle foods Dietary strategies for improving the oxidative stability of muscle foods The beneficial impact of vitamin E supplementation on meat quality Economic and safety implications of nutritionally modified meat Food industry applications involving meat poultry and seafood Animal nutrition and muscle biochemistry New areas where nutritional strategies can improve meat quality **The Digestive System in Mammals** D. J. Chivers,P. Langer,1994-07-21 Biochemical physiological and morphological aspects of mammalian digestive systems **Bibliography of Agriculture** ,1975 **Ecology, Evolution and Behaviour of Wild Cattle** Mario Melletti,James Burton,2014-10-30 A beautifully illustrated reference work on the biology ecology conservation status and management of all thirteen species of wild cattle and buffalo This book will be a valuable resource for students researchers and professionals in animal behaviour behavioural ecology evolutionary biology and conservation biology

The Rumen Microbial Ecosystem P.N. Hobson,C.S. Stewart,2012-12-06 The Preface to the first edition of this book explained the reasons for the publication of a comprehensive text on the rumen and rumen microbes in 1988 The microbes of the ruminant s forestomach and those in related organs in other animals and birds provide the means by which herbivorous animals can digest and obtain nutriment from vegetation In turn humans have relied and still do rely on herbivores for much of their food clothing and motive power Herbivores also form the food of carnivorous animals and birds in the wild The importance of the rumen microorganisms is thus apparent But while a knowledge of rumen organisms is not strictly necessary for the normal practical feeding of farm animals in recent years there has been much more emphasis on increasing the productivity of domesticated animals and in rearing farm animals on unusual feedstuffs Here a knowledge of the reactions of the rumen flora and the limits to these reactions can be invaluable In addition anaerobic rumen type microorganisms are found in the intestines of omnivores including humans and can be implicated in diseases of humans and animals They are also found in soils and natural waters where they play a part in causing pollution and also in reducing it while the same organisms confined in artificial systems are essential for the purification of sewage and other polluting and toxic wastes

Rumenology Danilo Domingues Millen,Mario De Beni Arrigoni,Rodrigo Dias Lauritano Pacheco,2016-09-22 The book combines information about the behaviour that allowed ruminants to survive and to evolve on Earth the rumen Furthermore the reader will find aspects involving rumen anatomy physiology microbiology fermentation metabolism manipulation kinetics and modeling Thus the book was not only organized to help students involved in areas such as ruminant nutrition and ruminant production but colleagues gathering material for teaching practices **New Zealand Journal of Agricultural Research** ,1984 **Microbial Ecology of Growing Animals** Wilhelm Holzapfel,Patrick Naughton,2005-04-19 The complexity of the microbial population of the animal gastrointestinal tract has been recognised long ago However thus far investigations have been limited to a few major groups considered to be dominating and pathogens that are detrimental and may cause diseases and concomitant financial losses in the production animal Thanks to the latest developments including

improved microbiological detection and sampling techniques and the application of molecular tools to monitor the presence of specific strains in the intestine our knowledge has increased rapidly in recent years In addition new approaches towards improving and or stabilising animal health are addressed with special emphasis on probiotics and also with regard to the use of selected bacterial strains as vehicles for delivery of pharmaceutically active compounds to the mucosa The book is unique in several respects not only by its coverage of an extremely wide area in animal gut microbiology but also by the fact that production animals such as fish and reindeer are included Scope and treatment of the subject matter and the kind of information that can be found in the volume Colonisation and development succession and mucosal surface composition of the normal microbial population flora in the healthy animal are addressed whilst extensive information is given on diverse and dominating bacterial populations of different animal types Reference is also made to those microbial groups considered to be of special benefit to the health and immune protection of the young animal bacteria The development and application of models of the Gastro Intestinal tract provides a solid basis for studying gut microbial interactions whilst molecular approaches and the use of molecular tools to monitor the presence of specific strains in the intestine is treated in a comprehensive manner Wide coverage of different animal types and their gut microbial ecology Extensive and partly new information on the major microbial groups associated with the animal gastro intestinal tract The book is unique and partly new information and up to date information provided in the chapters as a whole

Nutrient Elements in Grassland D. C. Whitehead, 2000-10-23 This book is an essential reference source covering the chemical elements that are nutrients for plants or grazing animals It deals with the concentrations and transformations of these elements in soils grassland plants and ruminant animals particularly cattle and sheep For each element the following data are given forms occurring in soil factors that affect availability and concentration uptake and distribution in grassland plants role in animal nutrition amounts and forms excreted by grazing animals and concentrations needed by ruminant animals

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