

METABOLIC MODIFIERS

Effects on the

Nutrient Requirements of

Food-Producing Animals

Subcommittee on Effects of Metabolic Modifiers on the
Nutrient Requirements of Food-Producing Animals
Committee on Animal Nutrition
Board on Agriculture
National Research Council

NATIONAL ACADEMY PRESS
Washington, D.C. 1994

Metabolic Modifiers Effects On The Nutrient Requirements Of Food Producing Animals

Michael Seilmaier

Metabolic Modifiers Effects On The Nutrient Requirements Of Food Producing Animals:

Metabolic Modifiers National Research Council, Board on Agriculture, Subcommittee on Effects of Metabolic Modifiers on the Nutrient Requirements of Food-Producing Animals, 1994-02-01 In the past decade animal scientists have learned that administering recombinantly derived somatotropin growth hormone to cows improves milk production and that giving beta adrenergic agonists to meat animals improves productivity and leanness In order for these metabolic modifiers to yield benefits however sound management of the animals nutrition is necessary This volume reports on how these substances work in the animals metabolism what effects they might have on nutrient requirements of domestic livestock and what information should be developed further by investigators The book explores the current understanding of the biology structure mechanisms of action and treatment effects of somatotropin beta adrenergic agonists and anabolic steroids A companion volume to the Nutrient Requirements of Domestic Animals series this authoritative volume will be required reading for animal scientists researchers veterinarians livestock farmers and faculty and students in university animal veterinary science programs

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Animal Care and Management at the National Zoo National Research Council, Division on Earth and Life Studies, Institute for Laboratory Animal Research, Board on Agriculture and Natural Resources, Committee on the Review of the Smithsonian Institution's National Zoological Park, 2005-11-27 This report follows up on an interim report released in February 2004 that focused on immediate needs in the areas of animal care and management recordkeeping and pest control The report finds that the zoo has made good faith efforts to correct deficiencies noted in the interim report and has made some noticeable improvements in the past year in zoo operations and animal care However problems in areas such as staff training workplace culture and strategic planning still need to be addressed Specifically the report recommends that the zoo immediately develop and implement animal care training programs to ensure that people who are directly responsible for the well being of its animal collection are adequately prepared and competent The report

commends a zoo initiated strategic planning process as a positive step but recommends it contain a more detailed comprehensive strategy of how it will meet short term goals and that it should link plans to upgrade facilities with those to acquire animals The zoo should also focus on improving communication among keepers veterinarians nutritionists senior managers and curators 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 Decent 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 **Nutrient Requirements of Swine** National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on Nutrient Requirements of Swine, 2012-08-02 Since 1944 the National Research Council has published 10 editions of the Nutrient Requirements of Swine This reference has guided nutritionists and other professionals in academia and the swine and feed industries in developing and implementing nutritional and feeding programs for swine The swine industry has undergone considerable changes since the tenth edition was published in 1998 and some of the requirements and recommendations set forth at that time are no longer relevant or appropriate The eleventh revised edition of the Nutrient Requirements of Swine

builds on the previous editions published by the National Research Council A great deal of new research has been published during the last 15 years and there is a large amount of new information for many nutrients In addition to a thorough and current evaluation of the literature on the energy and nutrient requirements of swine in all stages of life this volume includes information about feed ingredients from the biofuels industry and other new ingredients requirements for digestible phosphorus and concentrations of it in feed ingredients a review of the effects of feed additives and feed processing and strategies to increase nutrient retention and thus reduce fecal and urinary excretions that could contribute to environmental pollution The tables of feed ingredient composition are significantly updated Nutrient Requirements of Swine represents a comprehensive review of the most recent information available on swine nutrition and ingredient composition that will allow efficient profitable and environmentally conscious swine production

Improving the Sensory and Nutritional Quality

of Fresh Meat Joseph Kerry,2009-01-22 Understanding of the scientific basis of quality attributes in meat is becoming more advanced providing more effective approaches to the control of meat eating and technological quality This important collection reviews essential knowledge of the mechanisms underlying quality characteristics and methods to improve meat sensory and nutritional quality Part one analyses the scientific basis of meat quality attributes such as texture and tenderness colour water holding capacity and flavour development Chapters on the nutritional quality of meat and meat sensory evaluation complete the section Part two discusses significant insights into the biology of meat quality obtained from genomic and proteomic perspectives with chapters focussing on different types of meat Parts three and four then review production and processing strategies to optimise meat quality considering aspects such as production practices and meat nutritional quality dietary antioxidants and antimicrobials carcass interventions chilling and freezing and packaging Methods of meat grading and quality analysis are also included With its distinguished editors and international team of contributors Improving the sensory and nutritional quality of fresh meat is a standard reference for those industrialists and academics interested in optimising meat quality Reviews methods to improve meat sensory and nutritional quality considering the effects of different production practices such as chilling freezing and packaging Analyses the scientific basis of meat quality attributes covering texture tenderness colour and water holding capacity Examines production and processing strategies to optimise meat quality including the current state of development and future potential

Animal Nutrition

John M. Brameld,Spiridoula Athanasiadou,David A. Kenny,Susan A. Lanham-New,2026-01-12 Understand the dietary needs and processes of animals with this comprehensive resource Animal Nutrition is a single reference volume gathering the latest research into animal nutritional needs digestion and metabolism A seminal new addition to the decorated Nutrition Society Textbook Series Animal Nutrition covers the nutritional needs of companion animals and livestock as well as providing detail on a variety of connected subjects The book discusses the nutritional needs and characteristics of different species reproduction husbandry and how nutrition can significantly impact animal quality of life and veterinary outcomes Written for

the benefit of students researchers and practitioners alike this accessible text offers foundational discussions of both theory and practice The result is a book which promises to rejuvenate the teaching of this critical field Animal Nutrition readers will also find Detailed discussion of topics including feed enzymes monogastric and ruminant nutrition macronutrients and more An authorial team comprised of leading researchers and instructors A focus throughout on sustainable animal husbandry and care Animal Nutrition is the essential introduction for undergraduate and postgraduate students of animal biology or veterinary care as well as an ideal reference for researchers and veterinarians

Nutrition Abstracts and Reviews ,1995

Proceedings. Cornell Nutrition Conference for Feed Manufacturers ,2008 Journal of the American Veterinary Medical Association ,1995 Building a North American Feed Information System ,1995 This historic book may have numerous typos and missing text Purchasers can download a free scanned copy of the original book without typos from the publisher Not indexed Not illustrated 1995 edition Excerpt rather than the currently enforced parameters of physical characteristics such as number of cracked seeds or foreign matter The U S and world agricultural commodities markets face continual change brought about by fluctuations in levels of production domestic supplies economic growth and governmental influences Producers in the United States are often faced with instances requiring access to instantaneous prevailing information on the nutrient composition of feeds For instance although U S wheat imports by China are expected to increase imports of U S wheat by other major purchasers are expected to decline The world price for wheat is high creating a challenge in marketing this commodity Substitution of alternative feeds on the basis of a comparison of quality and nutrient composition can bring better balance to the trade and use of many grain commodities Additionally livestock inventories in countries such as those of the former Soviet Union are decreasing with a subsequent decrease in feed demand The livestock industry in the United States and throughout the world has a direct effect on the trade of feed grains Technological advances in the genetic engineering of plants require close monitoring of the compositional changes in grains that affect feed and its consequent market value With the dissemination of nutrient composition information the significant innovative improvements in barley that have occurred could be reflected in its value The challenges brought about by continually changing circumstances in world agricultural trade can successfully be engineered and met with accurate feed analysis and thoughtful marketing strategies Accelerated growth in the global economy over the next decade has been projected on the

Organization and Members National Academy of Sciences (U.S.),1994 Proceedings ,1957 **Aquaculture Magazine** ,2000 *Organization and Members - National Academy of Sciences, National Academy of Engineering, Institute of Medicine, National Research Council* National Academy of Sciences (U.S.),1994 **Generic Environmental Impact Statement on Animal Agriculture** ,1999 *Veterinary Therapeutics* ,2010 *The Cumulative Book Index* ,1996 A world list of books in the English language Manipulating Pig Production V Australasian Pig Science Association. Conference,Australasian Pig Science Association,1995 These proceedings cover a diverse range of topics about the pig

industry pig behaviour and housing nutrient digestibility regulation of growth pig reproduction lactation and pre weaning growth gastrointestinal health and physiology applied nutrition and meat quality *Effects of Conjugated Linoleic Acids on Lipid Metabolism in Lactating Dairy Cows* Lance Hall Baumgard,2002

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