

Recent advances of research in antinutritional factors in legume seeds and oilseeds



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Recent Advances Of Research In Antinutritional Factors In Legume Seeds And Rapeseeds

**J Huisman,T F B Van Der Poel,I E
Liener**



Recent Advances Of Research In Antinutritional Factors In Legume Seeds And Rapeseeds:

Recent Advances of Research in Antinutritional Factors in Legume Seeds and Rapeseed A J M Jansman, G D Hill, J Huisman, A F B Van Der Poel, 1998-07 This publication contains the proceedings of the 4th International Workshop on Antinutritional Factors in Legume Seeds and Oilseeds held in Toledo Spain on 8-10 March 2004. This series of meetings brings together experts working in this field of Science from throughout the world. A major feature of each conference session is an invited review which outlines the advances that have been made in a particular area since the last meeting. A major factor that was considered at this meeting was the likely impact of plant genetic modification on the nutritional quality of their seeds for human and animal feeding. As an example already a number of legume species and rapeseed have been modified to improve the sulphur amino acid content of their seed and thus their protein quality. Besides the major grain legume species and rapeseed that had been discussed at previous meetings in this series, number of crop products as potential protein sources for animal feeding were considered for the first time. These included cottonseed meal, linseed meal and sunflower seed meal. The potential of some new exotic crops from Mexico was also covered including Mexican species of the genus *Lupinus* and a Mexican plant from the same family as castor bean which has a very high oil content but is usually toxic. Work from Cuba compared the nutritional characteristics of soybean with a range of tropical grain legume species which have received little previous attention. A major change at this meeting was the greater consideration of the effects both positive and negative of the consumption of these seeds for human nutrition. A major review on the development of allergenicity to legume seed in humans is included. There was also consideration of the potential role of antinutritional factors in reducing the growth of various types of tumour cells. The presented papers also suggest that the consumption of legume seed in the diet can potentially reduce serum cholesterol levels. Overall from the 5 conference sessions there are 52 papers. Of these 7 are major invited reviews on the current state of research in this important area for human and animal feeding. **Recent advances of research in antinutritional factors in legume seeds and oilseeds** M. Muzquiz, G.D. Hill, C. Burbano, C. Cuadrado, M.M. Pedrosa, 2023-08-28 This series of meetings brings together experts working in this field of Science from throughout the world. A major feature of each conference session is an invited review which outlines the advances that have been made in a particular area since the last meeting. A major factor that was considered at this meeting was the likely impact of plant genetic modification on the nutritional quality of their seeds for human and animal feeding. As an example already a number of legume species and rapeseed have been modified to improve the sulphur amino acid content of their seed and thus their protein quality. Besides the major grain legume species and rapeseed that had been discussed at previous meetings in this series, number of crop products as potential protein sources for animal feeding were considered for the first time. These included cottonseed meal, linseed meal and sunflower seed meal. The potential of some new exotic crops from Mexico was also covered including Mexican species of the genus *Lupinus* and a Mexican plant from the same family as castor

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Swine Nutrition Austin J. Lewis, L. Lee Southern, 2000-12-21 With 42 chapters authored by leading international experts Swine Nutrition Second Edition is a comprehensive reference that covers all aspects of the nutrition of pigs Content includes characteristics of swine and the swine industry with emphasis on the gastrointestinal tract various classes of nutrients how these nutrients are metabolized by swine and the factors affecting their utilization the practical aspects of swine nutrition from birth through gestation lactation in sows and the feeding of adult boars and nutritional aspects of the various feedstuffs commonly fed to swine Rounding the book is coverage of various techniques used in swine nutrition research

Feed evaluation science Paul J. Moughan, Wouter H. Hendriks, 2025-07-21 Written by a team of international authorities Feed Evaluation Science is a must have for students researchers postdoctoral fellows and teachers of animal nutrition as well as practitioners in the feed industry The text offers a classical treatment of the basic principles and new developments in feed evaluation for simple stomached animals with emphasis on pigs and poultry The chapters follow a logical progression to provide a coherent in depth coverage of the key science and technology inherent in the nutrition and feeding of animals The topics covered are nutrient analysis and characterisation nutrient bioavailability post absorptive nutrient utilisation the principles of animal growth and the mathematical modelling of growth Practical aspects of feed processing anti nutritional factors the use of markers in nutrition studies predicting bioavailable nutrients and the principles of feed formulation are highlighted in the context of pig poultry and companion animal nutrition This is a classic text on the nutrition of simple stomached animals and is intended for those working at the forefront of developments in feed evaluation science

Chemical and Functional Properties of Food Proteins Zdzislaw E. Sikorski, 2001-06-22 Chemical and Functional Properties of Food Proteins presents the current state of knowledge on the content of proteins in food structures the chemical functional and nutritive properties of food proteins the chemical and biochemical modification of proteins in foods during storage and processing and the mutagenicity and carcinogenicity of nitr

Pulses and their by-products as animal feed Food and Agriculture

Organization of the United Nations,2018-06-05 Pulses provide valuable products for animal feeding and thereby indirectly contribute to food security In order to promote the use of pulses and their by products in regions where they are often wasted this publication highlights the nutritional role of beans vetches lentils and peas for different animal breeds and looks at the necessary climatic conditions for cultivation

Legumes Maria Ángeles Martín-Cabrejas,2019-01-02 Legumes have high potential for improving the nutritional quality of foods but limited data on their bioactive compounds exists Results of clinical and epidemiological studies suggest that natural antioxidants can protect us against oxidative stress that is closely associated with cancer and cardiovascular disease Legumes are a valuable source of bioactive compounds such as phenolic compounds peptides and non nutritional factors They are rich in several important micronutrients including potassium magnesium folate iron and zinc and are an important source of protein in vegetarian diets They are among the only plant foods that provide significant amounts of the amino acid lysine Commonly consumed legumes are also rich in total and soluble fibre as well as in resistant starch This book provides a comprehensive overview of the antioxidant activity and health aspects of legumes The international spread of contributors will describe the key factors that influence consumer acceptance of legumes in the diet as well as the known functional properties of legumes and legume based food products It will serve as an excellent and up to date reference for food scientists food chemists researchers in human nutrition dietetics and the chemistry of natural compounds

Top 100 Food Plants Ernest Small,2009 This beautifully illustrated book reviews scientific and technological information about the world s major food plants and their culinary uses An introductory chapter discusses nutritional and other fundamental scientific aspects of plant foods The 100 main chapters deal with a particular species or group of species All categories of food plants are covered including cereals oilseeds fruits nuts vegetables legumes herbs spices beverage plants and sources of industrial food extracts Information is provided on scientific and common names appearance history economic and social importance food uses including practical information on storage and preparation as well as notable curiosities There are more than 3000 literature citations in the book and the text is complemented by over 250 exquisitely drawn illustrations Given the current alarming rise in food costs and increasing risk of hunger in many regions specialists in diverse fields will find this reference work to be especially useful As well those familiar with Dr Small s books or those with an interest in gardening cooking and human health in relation to diet will want to own a copy of this book

Publisher s web site

Advances in Botanical Research Surinder Kumar Gupta,2007-06-07 Rapeseed is an important oilseed crop belonging to Cruciferae family and grown in subtropical to temperate climate Recent discoveries have caused the scientific community to respond positively by directing a greater amount of research towards increasing production and improving the quality of rapeseed oil Today the annual worldwide production is approximately 7.5 million tons on 4 million acres Canola ranks 5th in the production of world s oilseed crops following soybean sunflower groundnut and cottonseed Rapeseed Breeding fully explains the miraculous discoveries about the genetic material which have contributed to the growth

of this important crop With contributions from world renowned researchers from North America Europe Asia and Australia this book provides the first scientific reference for scientists interested in the further exploitation of this important crop Presents history origin and evolution breeding methods practical applications of DNA markers fingerprinting of cultivars and conservation of rapeseed germplasm Includes detail of different breeding purposes including breeding for improved oil and meal quality breeding for winter hardiness breeding for herbicides and breeding for hybrid rape Provides analysis of ecology usage degeneration and application

Quality and Production of Forage Vincenzo Tufarelli, 2019-10-29 The book *Quality and Production of Forage* is intended to keep readers updated on the developments occurring in this field As it is apparent that livestock animals are important throughout the world because of the meat milk and egg they produce knowledge about the forages available to animals must also be considered for increased production quality and efficiency This book provides information that readers will find considerably invaluable about forage feeds such as grass legumes and straw The book is composed of ten papers focusing on a wide range of research activities and topics that feature the following concepts of forage the effect of conservation method on forage protein value Microbial the composition and mycotoxin content in forage genetic diversity of forages timely sowing to maximize yield for both grain and biomass ensiling treatments on forage quality the qualitative characteristics of different accessions of new forage species forage policy influencing feed costs feeding forage on animal health high protein tropical forages as alternative sources for poultry impact of forages in poultry diet and significance of forages in sustainable poultry production systems This book will be an invaluable reference for students and professionals in agricultural science and grassland and animal husbandry researches

Nutrition and health of the gastrointestinal tract M.C. Blok, H.A. Vahl, L. de Lange, A.E. v.d. Braak, G. Hemke, M. Hensing, 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

Soybean and Nutrition Hany El-Shemy, 2011-09-12 Worldwide soybean seed proteins represent a major source of amino acids for human and animal nutrition Soybean seeds are an important and economical source of protein in

the diet of many developed and developing countries Soy is a complete protein and soy foods are rich in vitamins and minerals Soybean protein provides all the essential amino acids in the amounts needed for human health Recent research suggests that soy may also lower risk of prostate colon and breast cancers as well as osteoporosis and other bone health problems and alleviate hot flashes associated with menopause This volume is expected to be useful for student researchers and public who are interested in soybean

Amino Acids in Higher Plants J P F D'Mello, 2015-04-15 Amino acids play a role in the defence mechanisms and stress responses of plants as well as in food quality and safety for humans and animals Recent advances in the field make a comprehensive overview of the information a necessity this book collates chapters on plant enzymes and metabolism modulation molecular aspects and secondary products Also including information on ecology the environment and mammalian nutrition and toxicology it provides an authoritative resource

Plant and Human Health, Volume 2 Munir Ozturk, Khalid Rehman Hakeem, 2019-01-22 Early anthropological evidence for plant use as medicine is 60 000 years old as reported from the Neanderthal grave in Iraq The importance of plants as medicine is further supported by archeological evidence from Asia and the Middle East Today around 1.4 billion people in South Asia alone have no access to modern health care and rely instead on traditional medicine to alleviate various symptoms On a global basis approximately 50 to 80 thousand plant species are used either natively or as pharmaceutical derivatives for life threatening conditions that include diabetes hypertension and cancers As the demand for plant based medicine rises there is an unmet need to investigate the quality safety and efficacy of these herbals by the scientific methods Current research on drug discovery from medicinal plants involves a multifaceted approach combining botanical phytochemical analytical and molecular techniques For instance high throughput robotic screens have been developed by industry it is now possible to carry out 50 000 tests per day in the search for compounds which act on a key enzyme or a subset of receptors This and other bioassays thus offer hope that one may eventually identify compounds for treating a variety of diseases or conditions However drug development from natural products is not without its problems Frequent challenges encountered include the procurement of raw materials the selection and implementation of appropriate high throughput bioassays and the scaling up of preparative procedures Research scientists should therefore arm themselves with the right tools and knowledge in order to harness the vast potentials of plant based therapeutics The main objective of *Plant and Human Health* is to serve as a comprehensive guide for this endeavor Volume 1 highlights how humans from specific areas or cultures use indigenous plants Despite technological developments herbal drugs still occupy a preferential place in a majority of the population in the third world and have slowly taken roots as alternative medicine in the West The integration of modern science with traditional uses of herbal drugs is important for our understanding of this ethnobotanical relationship Volume 2 deals with the phytochemical and molecular characterization of herbal medicine Specifically It will focus on the secondary metabolic compounds which afford protection against diseases Lastly Volume 3 focuses on the physiological mechanisms by which the active ingredients

of medicinal plants serve to improve human health Together this three volume collection intends to bridge the gap for herbalists traditional and modern medical practitioners and students and researchers in botany and horticulture

Chickpea Breeding and Management Shyam S. Yadav,W. Chen,2007 The chickpea is an ancient crop that is still important in both developed and developing nations This authoritative account by international experts covers all aspects of chickpea breeding and management and the integrated pest management and biotechnology applications that are important to its improvement With topics covered including origin and taxonomy ecology distribution and genetics this book combines the many and varied research issues impacting on production and utilization of the chickpea crop on its journey from

paddock to plate **Voluntary feed intake in pigs** David Torrallardona,Eugeni Roura,2023-09-04 Understanding voluntary feed intake of pigs enables the precise formulation of pig feeds ensuring the ingestion of sufficient but not excessive amounts of nutrients to optimise performance This reference textbook based on scientific results covers all aspects of feed intake in pigs It contains up to date reviews by renowned scientific experts on different aspects affecting voluntary feed intake and diet selection in pigs Different physiological factors involved in feed intake regulation ranging from the sensorial evaluation of feeds to the hormonal and metabolic regulation of feed intake and the impact of pig health are discussed The book also deals with aspects such as genetic background of the animals feeder design feed manufacturing technology and the use of models to predict feed intake This book is intended for academics researchers students and industry professionals involved in the field of pig nutrition and pig production

Encyclopedia of Food Grains Colin W Wrigley,Harold Corke,Koushik Seetharaman,Jonathan Faubion,2015-12-17 The Encyclopedia of Food Grains Four Volume Set is an in depth and authoritative reference covering all areas of grain science Coverage includes everything from the genetics of grains to the commercial economic and social aspects of this important food source Also covered are the biology and chemistry of grains the applied aspects of grain production and the processing of grains into various food and beverage products With the paramount role of cereals as a global food source this Encyclopedia is sure to become the standard reference work in the field of science Also available online via ScienceDirect featuring extensive browsing searching and internal cross referencing between articles in the work plus dynamic linking to journal articles and abstract databases making navigation flexible and easy For more information pricing options and availability visit www.info.sciencedirect.com Written from an international perspective the Encyclopedia concentrates on the food uses of grains but details are also provided about the wider roles of grains Well organized and accessible it is the ideal resource for students researchers and professionals seeking an authoritative overview on any particular aspect of grain science This second edition has four print volumes which provides over 200 articles on food grains Includes extensive cross referencing and Further Reading lists at the end of each article for deeper exploration into the topic This edition also includes useful items for students and teachers alike with Topic Highlights Learning objectives Exercises for Revision and exercises to explore the topic further **Nutrient Requirements of Fish**

and Shrimp National Research Council, Division on Earth and Life Studies, Board on Agriculture and Natural Resources, Committee on the Nutrient Requirements of Fish and Shrimp, 2011-05-25 Aquaculture now supplies half of the seafood and fisheries products consumed worldwide and is gaining international significance as a source of food and income. Future demands for seafood and fisheries products can only be met by expanded aquaculture production. Such production will likely become more intensive and will depend increasingly on nutritious and efficient aquaculture feeds containing ingredients from sustainable sources. To meet this challenge, *Nutrient Requirements of Fish and Shrimp* provides a comprehensive summary of current knowledge about nutrient requirements of fish and shrimp and supporting nutritional science. This edition incorporates new material and significant updates to information in the 1993 edition. It also examines the practical aspects of feeding of fish and shrimp. *Nutrient Requirements of Fish and Shrimp* will be a key resource for everyone involved in aquaculture and for others responsible for the feeding and care of fish and shrimp. It will also aid scientists in developing new and improved approaches to satisfy the demands of the growing aquaculture industry.

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