



RESEARCH PAPER

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In Vitro study of the nutritional and pharmacological contribution of *Pennisetum purpureum* Schumach leaves: Natural food used by guinea pig (*Cavia porcellus*) breeders in Gabon

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Abstract

Pennisetum purpureum is a natural food used by guinea pig (*Cavia porcellus*) farmers in Haut Ogooué, Gabon. The objective of the present study was to investigate the nutritional and pharmacological contribution of *Pennisetum purpureum* Schumach leaves. The determination of the nutritional value was done by the determination of proteins, total sugars, lipids, dry matter, ash, vitamins (vitamin A, vitamin C and vitamin B6) and minerals (iron, phosphorus, nitrogen). Determination of pharmacological properties was carried out by testing for antioxidants (DPPH radical scavenging capacity measurement), egg albumin protein denaturation and antibacterial properties (diffusion method). The results show that the leaves of *Pennisetum purpureum* Schumach have high moisture, crude cellulose, lipids, proteins and ash, while total sugars and citric acid are low. The plant studied contains sufficient phosphorus and iron. Vitamins A and B6 are in reasonable amounts. *Pennisetum purpureum* Schumach has a low antioxidant activity. Anti-inflammatory activities were found to be low, with an IC50 of 65.047 µg/mL. The extracts showed maximum relative percentage inhibition against *Staphylococcus aureus* ATCC25923 BHI (100%), *Escherichia coli* 105182 CIP (111.64%), *Staphylococcus aureus* (112.5%) and *Salmonella typhi* (81.25%). In sum, the presence of nutritive and pharmacological elements could justify its use in the breeding of guinea pigs in Gabon.

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Modification Of Proteins Food Nutritional And Pharmacological Aspects

Robert Earl Feeney



Modification Of Proteins Food Nutritional And Pharmacological Aspects:

Modification of Proteins Food, Nutritional, and Pharmacological Aspects Based on a Symposium Jointly Sponsored by the Divisions Robert Earl Feeney,1982 **Biochemistry of food proteins** B. J. F. Hudson,2013-03-09

Developments in the understanding of food protein structure behaviour and applications continue apace Many of these have in the past decade been reported and evaluated in the series *Developments in Food Proteins* comprising seven volumes with a total of 55 chapters The time has now come to re assess many of the topics reviewed in that series and to add certain others However instead of assembling some what at random food protein topics from quite disparate fields in individual volumes we have decided to bring together homogeneous groups of topics each representing a specific sector of the subject Under the general theme of *Progress in Food Proteins* the first of these groups covers *Biochemistry* Readers will note that though six of the topics reviewed in this volume are new five of them have already featured in *Developments in Food Proteins* These last are in active research fields in which new developments have been of special significance In this sense therefore they are welcome updates

Hydrophobic Interactions in Food Systems Shuryo Nakai,2018-01-18 This book aims to assist scientists in the field in reviewing and updating their information and will prompt them to adopt a unified quantitative approach to the study of hydrophobic interactions in food systems The first part of this monograph reviews the current knowledge on the topic and the second part of the monograph presents in some detail an example of the application of hydrophobic concept to a particular food system namely muscle proteins

Food Proteins and Their Applications Srinivasan Damodaran,2017-10-19 Reviews the physiochemical properties of the main food proteins and explores the interdependency between the structure function relationship of specific protein classes and the processing technologies applied to given foods The book offers solutions to current problems related to the complexity of food composition preparation and storage and includes such topics as foams emulsions gelation by macromolecules hydrolysis microparticles fat replacers protein based edible films and extraction procedures

Nutritional Adequacy, Nutrient Availability and Needs

Mauron,Anantharaman,Finot,Horisberger,Ingenbleek,Würzner,2013-11-21 *Chemical Changes in Food During Processing* Richardson,2013-11-21 This volume results from the Eighth Basic Symposium held by the Institute of Food Technologists in Anaheim California on June 8 9 1984 The theme of the symposium was *Chemical Changes in Food during Processing* The speakers included a mix of individuals from academic institutions governmental agencies and the food industry Twenty speakers discussed topics ranging from the basic chemistry relating to food constituents to the more applied aspects of chemical changes in food components during food processing It was the intent of the organizers to bring together a group of speakers who could address the chemistry of changes in food components during processing from a mechanistic point of view As a consequence the proceedings of this symposium emphasize the basic chemistry of changes in food constituents from a generic perspective which is intended to provide the reader with a background to address more specific problems that

may arise **New Protein Foods** Aaron M. Altschul, Harold L. Wilcke, 2013-09-17 New Protein Foods Volume 5 Seed Storage Proteins covers papers on the role of new science and technology in providing greater flexibility for producing and utilizing protein food resources with emphasis on seed storage proteins primarily oilseed proteins The book presents articles on the chemistry and biology of seed storage proteins as well as the structure of soy proteins The text also includes articles on the relationships of genetic engineering to conventional genetic technology and plant breeding and the potentials for applications of genetic engineering technology to soybeans The physicochemical and functional properties of oilseed proteins with emphasis on soy proteins the chemical and enzymatic modification of plant proteins and the nutritional characteristics of oilseed proteins are also considered The book further demonstrates articles on the processes of manufacturing isolated soy protein the characteristics of isolates nutritional the physical and functional properties and the major applications of isolated soy proteins The text concludes by including articles on the production physicochemical properties and nutritional aspects of rapeseed ground nuts sunflower seeds and sesame proteins Nutritionists horticulturists agriculturists agronomists food technologists and people involved in related manufacturing companies will find the book invaluable *Food Biotechnology—1* R. D. King, 2012-12-06 Biotechnology in its many guises has developed very considerably over the last few years We now feel that it is appropriate for the publication of a series of books that discuss the technical aspects of biotechnology specifically as applied to foods and in particular concentrating on new and emerging techniques processes and products Food is without doubt one of the oldest bioindustries however some of the new areas of biotechnology such as diagnostic and health care applications are likely to mature much faster than applications in the food industry Eventually however biotechnology must have a very great impact on a wide scale in the food industry simply because of the size and diversity of the industry and because most food products are substantially natural in origin and are therefore very suitable for processing by biocatalysts Some of the ways in which the food industry is likely to be affected by developments in biotechnology include the following The modification of food components to give products with new and or improved properties for instance high fructose corn syrups and by modifying the functional properties of proteins New methods of assaying food constituents such as immobilized enzyme sensors New processes for the production of foods and food components for instance the use of plant cell cultures for the production of flavours Many of these topics will be described in detail in this series of books Protein Functionality in Food Systems Navam S. Hettiarachchy, Gregory R. Ziegler, 1994-05-10 This volume examines the contributions of proteins to the technological and organoleptic characteristics of food It provides a solid basis for understanding the principles of food protein functionality and offers information to help develop unique food products using proteins as novel ingredients Properties such as solubility viscosity gelation emulsification and foam formation are discussed **Advances in Food and Nutrition Research** Steve Taylor, 2003-11-07 Advances in Food and Nutrition recognizes the integral relationship between the food and nutritional sciences and brings

together outstanding and comprehensive reviews that highlight this relationship Contributions detail the scientific developments in the broad areas of food science and nutrition are intended to ensure that food scientists in academia and industry as well as professional nutritionists and dieticians are kept informed concerning emerging research and developments in these important disciplines *Biotechnology and Food Ingredients* Israel Goldberg, Richard Williams, 1991-02-28 Reviews the successful cases of developing food ingredients by biotechnological processes as a sort of catalogue for people in the food industry Describes the production of proteins vitamins enzymes flavors colors and other ingredients using traditional genetic engineering and entirely new technologies Chapters discuss the various products and sources methodologies and regulation Annotation copyrighted by Book News Inc Portland OR **Handbook of Food Enzymology** John R. Whitaker, Alphons G. J. Voragen, Dominic W.S. Wong, 2002-12-05 Discussing methods of enzyme purification characterization isolation and identification this book details the chemistry behavior and physicochemical properties of enzymes to control enhance or inhibit enzymatic activity for improved taste texture shelf life nutritional value and process tolerance of foods and food products The book covers *Food Proteins* Shuryo Nakai, H. Wayne Modler, 1996-12-17 Neue Verfahren der computergestützten Aufklärung und gentechnologischen Modifikation von Eiweißstrukturen haben die Proteinchemie revolutioniert Dieses Buch verbindet klassische Methoden mit aktuellen neuronalen Netzwerken genetische Algorithmen der Anwender speziell aus dem Nahrungsmittelsektor wird befähigt komplizierte Probleme systematisch zu lösen nicht wie bisher oft durch Trial and Error Neben theoretischen Grundlagen werden die Eigenschaften von Nahrungseiweißen und deren analytische Charakterisierung diskutiert auch Trennungs- und Reinigungsverfahren für Proteine sowie gezieltes biotechnologisches Design neuer Verbindungen kommen zur Sprache Ein Nachschlagewerk für Forschung und Ausbildung

Molecular Approaches to Improving Food Quality and Safety Deepak Bhatnagar, 2012-12-06 Conventional food safety and quality research have traditionally dealt with the whole organism or food product either plant or animal or with the microorganisms that associate with these food producing plants and animals at various stages of growth development and maturation However conventional research methods no longer are sufficient to bring about the improvements in quality and safety of foods that are demanded in today's marketplace by increasingly educated and sophisticated consumers Improved quality has generally been thought to mean 1 unblemished products particularly fruits and vegetables and 2 the desired functionality of protein carbohydrates and fats in grain oilseeds and the like to achieve the intended purpose in processing foods for example dough characteristics to make bread or pasta However it also means the year round ready availability of nutritious and appealing choices in all food groups that can be quickly and easily prepared This promotes optimum nutrition particularly necessary in children the elderly and special needs groups and it allows health conscious consumers to match their calorie intake with individual needs to achieve and maintain desirable body weight The Food Chemistry Laboratory Connie M. Weaver, James R. Daniel, 2003-02-26 A popular book in its first edition The Food Chemistry Laboratory A Manual

for Experimental Foods Dietetics and Food Scientists Second Edition continues to provide students with practical knowledge of the fundamentals of designing executing and reporting the results of a research project Presenting experiments that can be completed in many *Chemistry and World Food Supplies* L. W. Shemilt,1983 **Interactions in Protein Systems**

Klaus Dieter Schwenke,Barbara Raab,1989-12-31 No detailed description available for Interactions in Protein Systems

Physical Chemistry of Foods Henry G. Schwartzberg,Richard W. Hartel,1992-06-11 This resource provides effective mechanistic methods for analyzing and understanding physical and chemical behaviour in foods and explains how to manipulate and control such behaviour during food processing distribution and use Written by 23 authorities in the field Physical Chemistry of Foods treats factors controlling crystallization cross linking reactions dispersion and surface adsorption processes in foods and clarifies how to modify crystal size distribution stabilize dispersions and minimize fouling explores uptake competition between mineral nutrients offering guidelines for efficient uptake and absorption describes kinetic rate controlling steps in Maillard reactions examining how to manipulate Maillard browning discusses how gels form and instrumental methods of following gelling processes and covers how to create gel based textures and structures in foods considers factors that control the behaviour of bread during dough development proofing and baking showing how carbon dioxide release affects loaf expansion and reveals how glass transitions affect rheological and kinetic behaviour and transport processes in foods detailing how to manipulate glass transitions and product behaviour by changes in composition and water content Food scientists and technologists food agricultural and bioresource engineers physical and surface chemists nutritionists and upper level undergraduate and graduate students and industrial trainees in these disciplines will repeatedly find valuable new insights and approaches for dealing with practical and theoretical problems and a wealth of useful information in Physical Chemistry of Foods with its more than 1380 literature citations **National Library of Medicine**

Current Catalog National Library of Medicine (U.S.), [Food Protein Chemistry](#) Joe Regenstein,2012-12-02 Food Protein Chemistry An Introduction for Food Scientists discusses food proteins and how they are studied Proteins are both biological entities and physicochemical compounds and they will be examined in both contexts in this volume The chemical and physical properties of proteins will be viewed from the perspective of chemists despite the fact that their use in the food supply emphasizes their biological nature Key topics discussed include proteins as essential to life amino acids protein classification selected proteins of the most important food systems and protein structure The book also includes chapters on protein measurement protein purification and spectral techniques for the study of proteins The book requires readers to have the equivalent of the Institute of Food Technologists requirements for undergraduate food science majors It also assumes a knowledge of math through calculus While primarily intended for senior and first year graduate food science students the text may also be useful to researchers in allied fields

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