Nutrition Value Sweet Potato

Robert Zeigler

Sweet Potato Jennifer A. Woolfe,1992-03-05 The sweet potato is at present grown in more than 100 of the independent countries of the world. Most of the producer nations are situated in the tropical developing world where a high proportion of the poorest people live. Increasing recognition of the potential which sweet potato holds for combating food shortages and malnutrition has resulted in intensified research efforts to enhance production and consumption. This book reviews our knowledge about the varied aspects of the sweet potato as a human food and animal feedstuff. This volume will be found practical and informative by all those involved in food and nutrition sciences, especially but not exclusively in developing countries. These include research workers in food or agriculture, dieticians, nutritionists, food technologists, students, planners and policy makers.

<u>Everything You Ever Wanted to Know about Sweetpotato</u> Stathers, T., Low, J., Carey, E., Mwanga, R., Njoku, J., Tumwegamire, S., Malinga, J., Andrade, M., 2013-12-20 Nothing provided

Sweetpotato in the Philippines Cabanilla, L.S., 1996

Sweet Potato Taihua Mu, Jaspreet Singh, 2019-05-18 Sweet Potato: Chemistry, Processing, and Nutrition presents foundational information, including identification, analysis, and use of chemical components from sweet potato in a variety of food and nonfood uses. Sweet potatoes can be easily propagated, are rich source of carbohydrates and functional components, and are highly productive, which makes them most suitable for production of staple and functional foods. With the increasing population and the challenges of providing healthy food to the world, there is an increasing consumer demand for new and better sweet potato products, particularly for those in developing countries. Providing a brief description of the specific sweet potato components, their role during processing and strategies for quality optimization, this book also explores novel methods of sweet potato starch, protein, and pectin modification providing students, researchers, and technologists working in the area of food science and others with the most recent information and state-of-the-art technology for developing new and beneficial uses of sweet potato. - Includes identification, analysis, and use of chemical components of sweet potatoes - Presents case studies including problem, factors, proposed solutions, and pros and cons of each - Allows readers to identify an appropriate solution efficiently and effectively

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The Sweetpotato Gad Loebenstein, George Thottappilly, 2009-03-21 In the last four decades of the twentieth century the use of sweetpotato was diversified beyond their classification as subsistence, food security, and famine-relief crop. In developing countries they serve both as human food and for feeding livestock. In Western countries they appeal to health conscious consumers because of their nutritional aspects. The sweetpotato is very high in nutritive value, and merits wider use on this account alone. The book has 2 parts. A general one giving up-to-date information on the history, botany, cultivars, genetic engineering, propagation, diseases and pests, nutritional data and marketing; and a second part presenting data on sweetpotato growing practices in different areas of the world. The information should be useful to researchers, practitioners and crop administrators in different countries.

The Sweetpotato Genome G. Craig Yencho, Bode A. Olukolu, Sachiko Isobe, 2024-09-21 This open access book is a compilation of advances in sweetpotato genomics, which have been used to improve our understanding of the evolution of sweetpotato, increase our knowledge of crop growth and development, and provided critical information required for genomic-assisted breeding in sweetpotato. Sweetpotato is a critical food staple for millions of people in the developing world that has long been considered an under-resourced, orphan crop. However, this perception is changing, and significantly, more resources have been devoted to the improvement of sweetpotato in both the private and public sectors around the world during the last decade. Its twelve chapters review the changing food security and commercial food product landscape of sweetpotato in the developed and developing world, global wild and cultivated genome sequencing efforts in sweetpotato, the evolution of molecular markers and the development of novel polyploid linkage mapping, quantitative trait loci and genomic selection strategies required for gene discovery in this complex crop, and the use of these new tool in sweetpotato crop improvement programs around the globe. This book is useful to students, teachers, and scientists in universities, research institutes, and private companies.

Nutrition and Feeding of Organic Cattle, 2nd Edition Robert Blair,2021-04-28 Organic cattle farming is on the increase, with consumer demand for organic milk and meat growing yearly. Beginning with an overview of the aims and principles behind organic cattle production, this book presents extensive information about how to feed cattle so that the milk and meat produced meet organic standards, and provides a comprehensive summary of ruminant digestive processes and nutrition. Since the publication of the first edition, global consumers have increasingly become concerned with the sustainability of meat production. Here, Robert Blair considers the interrelationships of sustainable practices and profitability of organic herds, reviewing how to improve forage production and quality, and minimizing the need for supplementary feeding using off-farm ingredients.

Underutilized Resources as Animal Feedstuffs National Research Council, Board on Agriculture, Committee on Animal Nutrition, Subcommittee on Underutilized Resources as Animal Feedstuffs, 1983-02-01

Sweetpotato in South Asia: Postharvest handling, processing, storage and use (Proceedings).,

Instant Insights: Sweetpotato Dr Robert L. Jarret, Dr Noelle L. Angin, Dr David Ellis, Dr Arthur Villordon, Dr Phillip Wadl, Dr Michael Jackson, Dr Genoveva Rossel, P. Zhang, Weijuan Fan, Hongxia Wang, Yinliang Wu, Wenzhi Zhou, Jun Yang, Dr Putri Ernawati Abidin, Edward Carey, 2020-10-30 This specially formulated collection features 3 reviews of current topics and key research in sweetpotato. The first chapter examines the origin and dispersal of sweetpotato, considers in vitro germplasm storage in sweetpotato genebanks, and looks at the importance of managing sweetpotato crop wild relatives (CWR). The chapter also considers the specific issues associated with sweetpotato germplasm, as well as the application of next-generation sequencing to sweetpotato and its CWR. The second chapter reviews the development and application of genetic transformation and trait improvement to sweetpotato, including the development of sweetpotato plants which are resistant to disease and abiotic stress, and sweetpotatoes with improved starch quality and higher anthocyanin content. The final chapter examines the nutritional contribution made by OFSP (orange-fleshed sweetpotato) in poor rural communities in Malawi, Ghana, Nigeria and Burkina Faso; sustainable breeding and seed systems; and effective commercialisation and marketing to benefit the communities concerned. This chapter includes detailed case studies from Ghana and Malawi.

Potato and Sweetpotato in Africa Jan Low, Moses Nyongesa, Sara Quinn, Monica Parker, 2015-10-28 Sweetpotato and potato are expanding faster than any other food crops in sub-Saharan Africa. There is growing investment in research to address bottlenecks in value chains concerning these two crops, and growing interest from the private sector in investing in them. This book addresses five major themes on sweetpotato and potato: policies for germplasm exchange, food security and trade in Africa; seed systems; breeding and disease management; post-harvest management, processing technologies and marketing systems; nutritional value and changing behaviours.

School-based nutrition education and promotion of orange-fleshed sweetpotato in urban and peri-urban areas of Kampala: Impacts and lessons learnt. Loechl, C., Lubowa, A., Cole, C., Prain, G., Low, J., 2010-06-11

Sustaining Global Food Security Robert Zeigler,2019-10-09 Population growth alone dictates that global food supplies must increase by over 50% in coming decades. Advances in technology offer an array of opportunities to meet this demand, but history shows that these can be fully realised only within an enabling policy environment. Sustaining Global Food Security makes a compelling case that recent technological breakthroughs can move the planet towards a secure and sustainable food supply only if new policies are designed that allow their full expression. Bob Zeigler has brought together a distinguished set of scientists and policy analysts to produce well-referenced chapters exploring international policies on genetic resources, molecular genetics, genetic engineering, crop breeding and protection, remote sensing, the changing landscape of agricultural policies in the world's largest countries, and trade. Those entering the agricultural sciences and those who aspire to influence public policy during their careers will benefit from the insights of this unique set of experiences

and perspectives.

Handbook of Phytonutrients in Indigenous Fruits and Vegetables Dharini Sivakumar, Yasmina Sultanbawa, Michael Netzel, 2022-10-31 The effects of inadequate diets on the population include malnutrition, non-communicable diseases and obesity. 'Hidden hunger', also known as micronutrient deficiencies, leads to various health-related disorders and diseases. Indigenous plants, in the form of indigenous fruits and leafy vegetables are gaining interest as a source of nutrients and bioactive phytochemicals, satisfying both food demand and health needs. Moreover, with the impact of climate change, and the importance of sustainability of food systems, it is essential that we investigate new, forgotten and alternative crops that can thrive in harsh conditions, require low fertilizer input, and are easily harvestable. This is an essential resource for academic researchers and industry professionals in the fields of horticulture, agriculture, crop science, human health and nutrition.

Program Report 1992 International Potato Center,

Advances in Food and Nutrition Research Steve Taylor, 2007-04-10 Advances in Food and Nutrition Research 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, and 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. - Series established since 1948 - Advisory Board consists of 8 respected scientists - Unique series as it combines food science and nutrition research

Survey of Food and Nutrition Research in the United States National Research Council (U.S.). Committee on Survey of Food and Nutrition Research,1948 A Compilation or Research Pertaining to Foods and Nutrition in Academic, Gevernmental and Industrial Laboratories.

Orphan Plant Species for Food Security and Nutrition: Successes, Challenges, and a Way Forward Enoch G. Achigan-Dako, Iago Lowe Hale, Katherine Steele, E. O. Deedi Sogbohossou, 2023-03-31

Survey of Food and Nutrition Research in the United States, 1948-1949 National Research Council (U.S.). Committee on Survey of Food and Nutrition Research, 1950

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