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## SARAI HURLEY

Advances in Fruit-Growing Systems as a Key Factor of Successful Production Nova Science Publishers

The agricultural industry is dealing with enormous challenges across the globe, including the limited availability of arable lands and fresh water, as well as the effect of climate change. Machinery plays a crucial role in agriculture and farming systems, in order to feed the world's growing population. In the last decade, we have witnessed major advances in agricultural machinery and technologies, particularly as manufacturers and researchers develop and apply various novel ways of automation as well as the data and information gathering and

analyzing capabilities of their machinery. This book presents the state-of-the-art information on the important innovations in the agricultural and horticultural industry. It reviews and presents different novel technologies and implementation of these technologies to optimize farming processes and food production. There are four sections, each addressing a specific area of development. Section I discusses the recent development of farm machinery and technology. Section II focuses on water and irrigation engineering. Section III covers harvesting and post-harvest technology. Section IV describes computer modelling and simulation. Each section highlights current industry trends and latest research progress. This book is ideal for those working in or are associated with the fields of agriculture, agri-food chain and technology development and

promotion.

Phylogenetics in Animal Nutrition BoD - Books on Demand

The white button mushroom, *Agaricus bisporus* is one of the most widely cultivated mushroom species in the world. It is favored for its high nutritional value and multiple health benefits, especially by consumers interested in vegan and clean eating. This book presents fundamental guidelines for mushroom production as well as major scientific findings in this field. It covers mushroom production and trade, substrates properties, compost quality, breeding, pests and diseases, harvesting, and post-harvest technologies. With practical information on methods used by both commercial and small-scale growers. This is a valuable resource for researchers and students in horticulture, as well as professionals and growers.

### **Doubled Haploid Production in Crop Plants** Cabi

As technology continues to saturate modern society, agriculture has started to adopt digital computing and data-driven innovations. This emergence of “smart” farming has led to various advancements in the field, including autonomous equipment and the collection of climate, livestock, and plant data. As connectivity and data management continue to revolutionize the farming industry, empirical research is a necessity for understanding these technological developments. Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture provides emerging research exploring the theoretical and practical aspects of critical technological solutions within the farming industry. Featuring coverage on a broad range of topics such as crop monitoring, precision livestock farming, and agronomic data processing, this book is ideally designed for farmers, agriculturalists, product managers, farm holders, manufacturers, equipment suppliers, industrialists, governmental professionals, researchers, academicians, and students seeking current research on technological applications within agriculture and farming.

### **Phenolic Compounds** CABI

Background to fodder oats worldwide; Fodder oats; an overview; Fodder oats in North America; Fodder oats: an overview for South America; Fodder oats in the Maghreb; Fodder oats in Pakistan; Fodder oats in the Himalayas; Fodder oats in China; Fodder oats in New Zealand and Australia- history, production and potential; Fodder oats in Europe; Oat diseases and their control; Perspectives for fodder oats.

*Genetics, Genomics and Breeding of Oilseed Brassicas* Food & Agriculture Org. Completely revised and updated, the Second Edition of Specialty Corns includes everything in the first edition and more. Considered the standard in this field, significant changes have been made to keep all the information current and bring the references up-to-date. Two new chapters have been added to keep up with the latest trends: Blue Corn and

### **Food Industry Wastes** CRC Press

Conferentievorslagen over: omzetting van dierlijk en menselijk afval door wormen, beheerstechniek betreffende deze omzetting, wormen als diervoeder, inschakeling van wormen bij de productie van plantengroeimedia, wormen voor bodemverbetering, wormen als indicatoren voor milieuverontreiniging A collection of conference reports on the

vermicomposting of human and animal waste, the production of hormone like compounds by worms, worms as soil improvers and worms as indicators of soil pollution

### *30th Scientific-Experts Conference of Agriculture and Food Industry* BoD – Books on Demand

"Zea mays L. is a potential producer of cereal crops and the dominant primary energy source of feed for monogastric animals, such as poultry. The first chapter in this book aims to determine the potential of phytase-producing endophytic bacteria, as an invisible avail for Zea mays L. High phytate levels in maize seeds is a problem encountered when used as raw material in poultry feed. The second chapter of this book focuses on the physical traits, chemical composition, and their relationship with wet-milling properties and nutritional quality parameters of maize hybrids of different maturity groups and various endosperm types (dent, semi-dent and flint). Finally, Mesoamerican cultures are generally regarded as advanced societies that, among other contributions to humanity, are known to have domesticated cultivated plants as Zea mays. Maize is one of the staple foods of the Mexican population and the practice of nixtamalization of maize seeds before Spanish conquest in 1521, is fundamental in the preparation of dough for tortillas. The last chapter examines the effect of salicylic acid in maize bioproductivity"--  
*Diagnosis of the Nitrogen Status in Crops* Springer

The impact of global climate change on crop production has emerged as a major research priority during the past decade. Understanding abiotic stress factors such as temperature and drought tolerance and biotic stress tolerance traits such as insect pest and pathogen resistance in combination with high yield in plants is of paramount importance to counter climate change related adverse effects on the productivity of crops. In this multi-authored book, we present synthesis of information for developing strategies to combat plant stress. Our effort here is to present a judicious mixture of basic as well as applied research outlooks so as to interest workers in all areas of plant science. We trust that the information covered in this book would bridge the much-researched area of stress in plants with the much-needed information for evolving climate-ready crop cultivars to ensure food security in the future.

### *Production of Durum Wheat* Springer Nature

The book describes the history of Brassica

oilseed crops, introduces the Brassica genome, its evolution, diversity, classical genetic studies, and breeding. It also delves into molecular genetic linkage and physical maps, progress with genome sequencing initiatives, mutagenesis approaches for trait improvement, proteomics, metabolomics, and bioinfo  
*Revue Agronomique Canadien* Springer  
*Fruit Oils: Chemistry and Functionality* presents a comprehensive overview of recent advances in the chemistry and functionality of lipid bioactive phytochemicals found in fruit oils. The chapters in this text examine the composition, physicochemical characteristics and organoleptic attributes of each of the major fruit oils. The nutritional quality, oxidative stability, and potential food and non-food applications of these oils are also extensively covered. The potential health benefits of the bioactive lipids found in these fruit oils are also a focus of this text. For each oil presented, the levels of omega-9, omega-6 and omega-3 fatty acids are specified, indicating the level of health-promoting traits exhibited in each. The oils and fats extracted from fruits generally differ from one another both in terms of their major and minor bioactive constituents. The methods used to extract oils and fats as well as the processing techniques such as refining, bleaching and deodorization affect their major and minor constituents. In addition, different post-processing treatments of fruit oils and fats may alter or degrade important bioactive constituents. Treatments such as heating, frying, cooking and storage and major constituents such as sterols and tocopherols are extensively covered in this text. Although there have been reference works published on the composition and biological properties of lipids from oilseeds, there is currently no book focused on the composition and functionality of fruit oils. *Fruit Oils: Chemistry and Functionality* aims to fill this gap for researchers, presenting a detailed overview of the chemical makeup and functionality of all the important fruit oils.

### *Birds in Agriculture* Food & Agriculture Org.

Changing land-use practices and the role of soil biological diversity has been a major focus of soil science research over the past couple of decades—a trend that is likely to continue. The information presented in this book points to a holistic approach to soil management. The first part looks at the land use effects on soil carbon storage, and considers a range of factors including carbon sequestration in

soils. The second part of the book presents research investigating the interactions between soil properties, plant species, and the soil biota.

**Earthworms in Waste and Environmental Management** Springer

Providing a link between theoretical and applied aspects of plant nutrition and agriculture, this book introduces new concepts in plant nutrition. It shows how these can be applied in order to assess the nitrogen status in crops and to improve nitrogen nutrition through optimized N fertilization management. In this way economic benefits can be obtained, while at the same time preventing detrimental effects on the environment. The main agricultural crops - grasses, wheat, barley, Durum wheat, maize, sorghum, grain legumes and potatoes - are covered. The book will be an invaluable source for agronomists.

**Smart and Sustainable Agriculture** CRC Press

An improved understanding of the interactions between nanoparticles and plant retorts, including their uptake, localization, and activity, could revolutionize crop production through increased disease resistance, nutrient utilization, and crop yield. This may further impact other agricultural and industrial processes that are based on plant crops. This two-volume book analyses the key processes involved in the nanoparticle delivery to plants and details the interactions between plants and nanomaterials. Potential plant nanotechnology applications for enhanced nutrient uptake, increased crop productivity and plant disease management are evaluated with careful consideration regarding safe use, social acceptance and ecological impact of these technologies. *Plant Nanobionics: Volume 1, Advances in the Understanding of Nanomaterials Research and Applications* begins the discussion of nanotechnology applications in plants with the characterization and nanosynthesis of various microbes and covers the mechanisms and etiology of nanostructure function in microbial cells. It focuses on the potential alteration of plant production systems through the controlled release of agrochemicals and targeted delivery of biomolecules. Industrial and medical applications are included. *Volume 2* continues this discussion with a focus on biosynthesis and toxicity.

**Specialty Corns** Asian Development Bank  
The coronavirus disease (COVID-19) pandemic has highlighted food security issues and nutrition gaps in Asia and the Pacific, where various risks and fragilities

have continually affected the food and agriculture sector. There is a clear need to integrate sustainable management of natural resources, nutritional considerations, and the economic dimensions of food supply chains to enhance resilience and mitigate climate change. This publication explores how innovative financing and transformative knowledge solutions can help address the financing gaps and other challenges of food systems in the region.

**Agricultural Economic Report** Springer

"In Oil for Food, Eckart Woertz analyzes the geopolitical implications behind the current investment drive of Arab Gulf countries in food insecure countries like Sudan or Pakistan. Having lived in Dubai for seven years, and drawing on extensive archival sources and interviews, he gives the inside story of how regional food security concerns have developed historically, how domestic agro-lobbies shape policy making, and how the failed attempt to develop Sudan as an Arab bread-basket in the 1970s carries important lessons for today's investments drive." --

**PROFESOR DOCTOR TATIANA-EUGENIA ŞESAN - O NEOBOSITĂ VIAȚĂ PENTRU SĂNĂTATEA PLANTELOR** World Bank Publications

Focusing on gut health in animals, his accessible study provides an overview of the potential benefits of phyto-genic substances and plant-based feed additives to animal nutrition. This up-to-date and well-researched exploration focuses on the latest scientific knowledge regarding these additives and their potential use as flavoring agents and growth promoters in different animals worldwide, from pigs and poultry to ruminant mammals and aquatic species. It also highlights results from in vitro experiments as well as in vivo trials and shows how these tests have practical implication of phyto-genic feeding concepts. Recognizing that the mechanisms in these additives are versatile and still need additional elucidation and scientific proof, this examination intends to help scientists and the feed industry further develop the group of feed additives.

**Artificial Intelligence and IoT-Based Technologies for Sustainable Farming and Smart Agriculture** Botanical Magazine Monograph

This book assesses the current challenges and opportunities for the next generation of agriculture and food science. Examining the role of nanotechnology and the application of related tools and techniques to transform the future of food, it also discusses in detail nanotechnology in food

production, processing and packaging, as well as the benefits of and concerns regarding nanofoods (nanotoxicity and food forensics). Considering the potential of IoT to revolutionize agriculture and the food industry by radically reducing costs and improving productivity and profits, the book highlights the necessity of integrating IoT and nanotechnology into the next generation of agriculture and food science. Further, it presents a detailed analysis of IoT implementation, together with the goals that have to be met in order to achieve significant improvements in the agri-food sector. In addition it explores a range of challenges, risks, and concerns that have a direct or indirect impact on nanotechnology and IoT implementation in agriculture and the food industry. In closing, it discusses the use of green nanotechnology and green IoT in order to create smart, safe, and sustainable agriculture and healthy food. **Getting Ready for the Twenty-first Century** Springer

Een combinatie van een theoretisch naslagwerk en een uitvoerige gids voor de praktijk, met een onderverdeling naar de verschillende soorten meststoffen, de diverse meststoffen voor de verschillende landbouwgewassen en het gebruik ervan in de bosbouw, de invloed op de grond en op de kwaliteit van het gewas, de doseringen van de meststoffen onder variërende omstandigheden. Verder komen ook de gezondheid van mens en dier in dit verband ter sprake. Het geheel wordt afgesloten met definities voor chemische termen en een index **Climate Change-Resilient Agriculture and Agroforestry** Springer

This book focuses on managing risks and building resilience to climate change, showcasing experiences from research, field projects and best practices to foster climate change adaptation in Eastern Europe that can be implemented elsewhere. Climate change affects countries in Eastern Europe, i.e. the Western Balkans and Southeast Europe in a variety of ways. Apart from severe floods, there are reports of decreasing water reserves in the southern regions, and of gradual changes in biodiversity and agricultural production. In the South Caucasus area, for instance, climate change models project a decline in precipitation and suggest that it will continue to become drier this century. Many Eastern European countries, especially the non-EU ones, have weak national climate policies, and transboundary collaborations, as well as limited public engagement in matters related to climate change. As a result,

climate change poses a serious threat to their economic stability and development and to the sustainable development of the region. The above state of affairs illustrates the need for a better understanding of how climate change influences Eastern Europe, and for the identification of processes, methods and tools that may help the countries and the communities in the region to adapt. There is also a perceived need to showcase successful examples of how to cope with the social, economic and political problems posed by floods/droughts in the region, especially ways of increasing the resilience of agriculture systems and of communities. Addressing this need, the book presents papers written by scholars,

social practitioners and members of government agencies involved in research and/or climate change projects in Eastern Europe.

Fruit Oils: Chemistry and Functionality  
Frontiers Media SA

This open access book studies the migration aspirations and trajectories of people living in two regions in Morocco that are highly affected by environmental change or emigration, namely Tangier and Tinghir, as well as the migration trajectories of immigrants coming from these regions currently living in Belgium. This book departs from the development of a new theoretical framework on the relationship between environmental changes and migration that can be applied to the Moroccan case. Qualitative research

conducted in both countries demonstrate how the interplay between migration and environmental factors is not as straightforward as it seems, due to its wider social, political, economic, demographic and environmental context. Findings show how existing cultures of migration, remittances, views on nature and discourses on climate change create distinct abilities, capacities and aspirations to migrate due to environmental changes. The results illustrate how migration and environmental factors evolve gradually and mutually influence each other. In doing so, this book offers new insights in the ways migration can be seen as an adaptation strategy to deal with environmental change in Morocco.

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