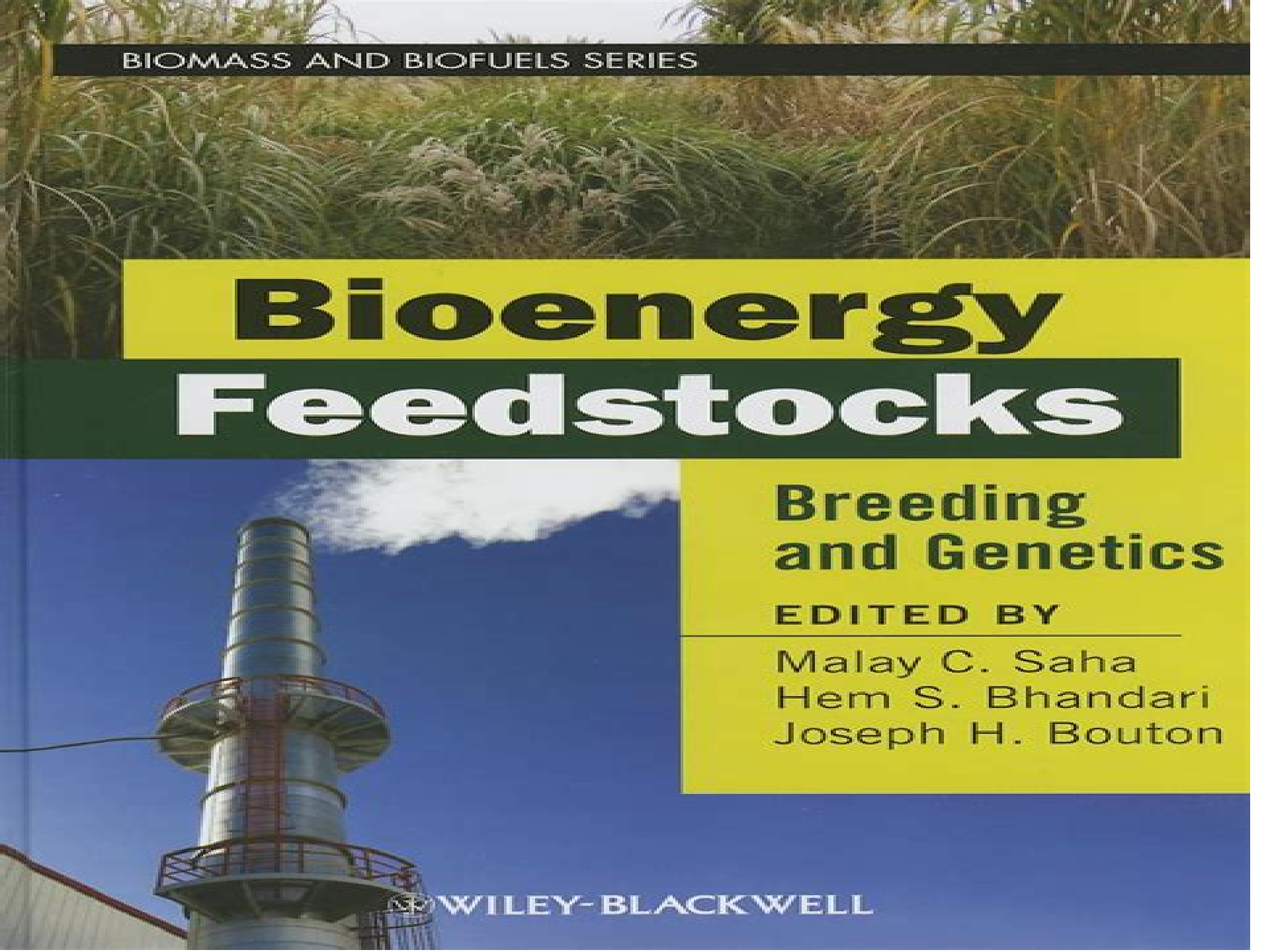




BIOMASS AND BIOFUELS SERIES

Bioenergy Feedstocks

**Breeding
and Genetics**

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Bioenergy Feedstocks Breeding And Genetics

Katrin Zwirgmaier



Bioenergy Feedstocks Breeding And Genetics:

Bioenergy Feedstocks Malay C. Saha, Hem S. Bhandhari, Joseph H. Bouton, 2013-04-03 Bioenergy and biofuels are generated from a wide variety of feedstock. Fuels have been converted from a wide range of sources from vegetable oils to grains and sugarcane. Second generation biofuels are being developed around dedicated non food energy crops such as switchgrass and Miscanthus with an eye toward bioenergy sustainability. Bioenergy Feedstocks Breeding and Genetics looks at advances in our understanding of the genetics and breeding practices across this diverse range of crops and provides readers with a valuable tool to improve cultivars and increase energy crop yields. Bioenergy Feedstocks Breeding and Genetics opens with chapters focusing primarily on advances in the genetics and molecular biology of dedicated energy crops. These chapters provide in depth coverage of new high potential feedstocks. The remaining chapters provide valuable overview of breeding efforts of current feedstocks with specific attention paid to the development of bioenergy traits. Coverage in these chapters includes crops such as sorghum, energy canes, corn and other grasses and forages. The final chapters explore the role of transgenics in bioenergy feedstock production and the development of low input strategies for producing bioenergy crops. A timely collection of work from a global team of bioenergy researchers and crop scientists. Bioenergy Feedstocks Breeding and Genetics is an essential reference on cultivar improvement of biomass feedstock crops.

Molecular Breeding of Forage and Turf Hikmet Budak, German Spangenberg, 2015-04-14 This proceeding covers all the collected research data and presentations from the 8th International Symposium on the Molecular Breeding of Forage and Turf. The book explores themes in molecular breeding of forage and turf including abiotic and biotic stresses, bioenergy and biorenewables, comparative genomics, emerging tools for forage and turf research, functional genetics and genomics, and genetic mapping, germplasm diversity and its impact on breeding, herbage quality, plant-microbe interactions, and transgenic and risk assessment. Written by renowned researchers in plant genomics. **Molecular Breeding of Forage and Turf** The Proceedings of the 8th International Symposium on the Molecular Breeding of Forage and Turf is a valuable resource for researchers and students in the field of plant genomics.

Genetics, Genomics and Breeding of Sorghum Yi-Hong Wang, Hari D. Upadhyaya, Chittaranjan Koley, 2014-07-08 Sorghum is one of the hardiest crop plants in modern agriculture and also one of the most versatile. Its seeds provide calorie for food and feed, stalks for building and industrial materials, and its juice for syrup. This book provides an in depth review of the cutting edge knowledge in sorghum genetics and its applications in sorghum breeding. Each chapter is authored by specialists in their fields to report the latest trends and findings. The book showcases the definitive value of sorghum as a model system to study the genetic basis of crop productivity and stress tolerance and will provide a foundation for future studies in sorghum genetics, genomics, and breeding.

Microbial Factories Vipin Chandra Kalia, 2016-02-16 This book highlights the efforts made by distinguished scientific researchers worldwide to meet two key challenges: i) the limited reserves of polluting fossil fuels and ii) the ever increasing amounts of waste.

being generated These case studies have brought to the foreground certain innovative biological solutions to real life problems we now face on a global scale environmental pollution and its role in deteriorating human health The book also highlights major advances in microbial metabolisms which can be used to produce bioenergy biopolymers bioactive molecules enzymes etc Around the world countries like China Germany France Sweden and the US are now implementing major national programs for the production of biofuels The book provides information on how to meet the chief technical challenges identifying an industrially robust microbe and cheap raw material as feed Of the various possibilities for generating bioenergy the most attractive is the microbial production of biohydrogen which has recently gained significant recognition worldwide due to its high efficiency and eco friendly nature Further the book highlights factors that can make these bioprocesses more economical especially the cost of the feed The anaerobic digestion AD process is more advantageous in comparison to aerobic processes for stabilizing biowastes and producing biofuels hydrogen biodiesel 1 3 propanediol methane electricity biopolymers polyhydroxyalkanoates cellulose exopolysaccharides and bioactive molecules such as enzymes volatile fatty acids sugars toxins etc for biotechnological and medical applications Information is provided on how the advent of molecular biological techniques can provide greater insights into novel microbial lineages Bioinformatic tools and metagenomic techniques have extended the limits to which these biological processes can be exploited to improve human welfare A new dimension to these scientific works has been added by the emergence of synthetic biology The Big Question is How can these Microbial Factories be improved through metabolic engineering and what cost targets need to be met

Twenty-Second Symposium on Biotechnology for Fuels and Chemicals Brian H. Davison, James D. McMillan, Mark Finkelstein, 2012-12-06 Lysts using enzyme microbial and plantbiochemistriesand genetic engi neeringand ProcessingResearch describedtheconversionofplantcom ponentsviaintegrationofmicrobiology biochemistry andchemistrywith engineering separations and hybrid systems The Enzymatic Processes and Enzyme Production session focused on the manufacture and use of enzymes TheIndustrialChemicals sessionemphasizedrecentdevelop mentsintheintegratedproductionandscale upofchemicalsfrombiologi cal rather than petrochemical routes Special interest was on separation methods and their integrationintonew fermentation orhybrid processes 35 oral presentations a roundtable The technical program consisted of forum two special topic discussions and a poster session of 135 posters WecontinuedasuccessfulinformalroundtableserieswithBioenergy and Bioproducts Forum on Recent Government Initiatives which dis cussedthePresident sExecutiveOrder the BioenergyInitiative the Tech nology Roadmap for Renewables Vision 2020 and other thrusts These eventscontinuethes strongindustrial focus and activeindustrialparticipa tionintheorganizingcommittee Thishasbecomeverypopularbecauseit allows industrialand government participants to speakmore openly AspecialTopicsDiscussionGroupwasheldonC0 Sequestration 2 ledby James W Lee Another onwas held on Commercializationof Bio mass to Ethanol where chairs Jack N Saddler and David J Gregg made thegoal ofthisworkshop to

show participants that we are close to demonstrating the technical viability of an integrated biomass to ethanol process and that progressive technical advances and policy decisions will likely greatly enhance the economic attractiveness of the process

Genetic Improvement of Bioenergy Crops Wilfred Vermerris, 2008-08-02 Ethanol as an alternative fuel is receiving a lot of attention because it addresses concerns related to dwindling oil supplies, energy independence, and climate change. The majority of the ethanol in the US is produced from corn starch. With the US Department of Energy's target that 30% of the fuel in the US is produced from renewable resources by 2030, the anticipated demand for corn starch will quickly exceed the current production of corn. This, plus the concern that less grain will become available for food and feed purposes, necessitates the use of other feedstocks for the production of ethanol. For the very same reasons, there is increasing research activity and growing interest in many other biomass crops. *Genetic Improvement of Bio Energy Crops* focuses on the production of ethanol from lignocellulosic biomass, which includes corn stover, biomass from dedicated annual and perennial energy crops, and trees, as well as a number of important biomass crops. The biomass is typically pretreated through thermochemical processing to make it more amenable to hydrolysis with cellulolytic enzymes. The enzymatic hydrolysis yields monomeric sugars that can be fermented to ethanol by microorganisms. While much emphasis has been placed on the optimization of thermochemical pretreatment processes, production of more efficient hydrolytic enzymes, and the development of robust microbial strains, relatively little effort has been dedicated to the improvement of the biomass itself. *Genetics, Genomics and Breeding of Eucalypts* Robert J. Henry, 2014-07-08 Eucalypts are used for the production of paper products, firewood, charcoal, potential feedstocks for bioenergy, and biomaterials, as ornamentals, and landscape trees, and in land rehabilitation. Eucalypt breeding is at an early stage, with many plantings being only at the first stages of domestication. The relatively small genomes of these species make the application of molecular genetics approaches attractive. The application of modern genomics will accelerate the development of improved eucalypts for a wide range of uses. This book brings together diverse information on the genetics, genomics, and breeding of these important forest species. *Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability* Rathoure, Ashok Kumar, Khade, Shankar Mukundrao, 2022-10-07 The depletion of fossil fuels is a major issue in energy generation; hence, biomass and renewable energy sources, especially bioenergy, are the solution. The dependence on bioenergy has many benefits to mitigate environmental pollution. It is imperative that the global society adopts these alternative sustainable energy sources in order to mitigate the constant growth of climate change. *Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability* highlights the challenges of energy conservation and current scenarios of existing fossil fuel uses, along with the pollution potential of burning fossil fuel. It further promotes the inventory assessment and use of biomass, pollution control, and techniques. This book provides the solution for climate change mitigation and sustainability. Covering topics such as biofuel policies, economic considerations, and microalgae biofuels, this premier reference source is an essential resource for environmental scientists.

environmental engineers government officials business leaders politicians librarians students and faculty of higher education researchers and academicians Cellulosic Energy Cropping Systems Douglas L. Karlen, 2014-06-12 Cellulosic Energy Cropping Systems presents a comprehensive overview of how cellulosic energy crops can be sustainably produced and converted to affordable energy through liquid fuels heat and electricity The book begins with an introduction to cellulosic feedstocks discussing their potential as a large scale sustainable energy source and technologies for the production of liquid fuels heat and electricity Subsequent chapters examine miscanthus switchgrass sugarcane and energy cane sorghums and crop residues reviewing their phylogeny cultural practices and opportunities for genetic improvement This is followed by a detailed focus on woody crops including eucalyptus pine poplar and willow Critical logistical issues associated with both herbaceous and woody feedstocks are reviewed and alternate strategies for harvesting transporting and storing cellulosic materials are also examined The final section of the book tackles the challenge of achieving long term sustainability addressing economic environmental and social factors Cellulosic Energy Cropping Systems is a valuable resource for academics students and industry professionals working in the field of biomass cultivation and conversion bioenergy crop science and agriculture Topics covered include Identifying suitable cellulosic energy crops that are adapted to a wide range of climates and soils Best management practices for sustainably growing harvesting storing transporting and pre processing these crops The development of integrated cellulosic energy cropping systems for supplying commercial processing plants Challenges and opportunities for the long term sustainability of cellulosic energy crops This book was conceived and initiated by David I Bransby Professor of Energy and Forage Crops in the Department of Crop Soil and Environmental Sciences at Auburn University USA For more information on the Wiley Series in Renewable Resources visit www.wiley.com/go/rrs

New and Future Developments in Catalysis Steven L Suib, 2013-07-17 New and Future Developments in Catalysis is a package of books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach There will be extensive cross referencing within all volumes This volume covers all the biomass sources and gives detailed and in depth coverage of all current chemical catalytic conversion processes of biomass into liquid hydrocarbons to be further used as a feedstock for the production of not only biofuels but a large array of chemicals Offers an in depth coverage of all catalytic topics of current interest and outlines the future challenges and research areas A clear and visual description of all parameters and conditions enables the reader to draw conclusions for a particular case Outline the catalytic processes applicable to energy generation and design of green processes

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