

Susanne Barth · Dan Milbourne *Editors*

Breeding Strategies for Sustainable Forage and Turf Grass Improvement

EUCARPIA

 Springer

Breeding Strategies For Sustainable Forage And Turf Grass Improvement

**Dejan Sokolović, Christian
Huyghe, Jasmina Radović**



Breeding Strategies For Sustainable Forage And Turf Grass Improvement:

Breeding strategies for sustainable forage and turf grass improvement Susanne Barth, Dan Milbourn, 2012-07-25 From the 4th 8th of September 2011 the Eucarpia Fodder Crops and Amenity Grasses Section held its 29th Meeting in the surroundings of Dublin Castle in Ireland The theme of the meeting was Breeding strategies for sustainable forage and turf grass improvement Grasslands cover a significant proportion of the land mass of the world and play a pivotal role in global food production At the same time we are faced with several challenges that affect the way in which we think about this valuable set of resources The population of the world is expected to exceed 9 billion by 2050 and increase of about one third relative to today's levels This population increase will be focused in urban areas and in what are currently viewed as developing countries meaning that the buying power of this increased population will be greater shifting the balance of demand from staple crops to high value items such as meat and dairy products Overall that the world will have to approximately double agricultural output across all categories of food to meet the demands of this larger urbanised population This is occurring against a backdrop of equally large challenges in terms of global climate change Agriculture is already a significant contributor to e.g. greenhouse gas emissions deforestation and soil erosion The situation is made more complex by an increased emphasis on biofuels as a solution for our imminent oil shortage resulting in increased competition between land utilised for food and fuel In short agriculture must continue to feed the world whilst not contributing to damaging it further It must be sustainable Plant breeding plays a significant but frequently understated role in meeting the challenges presented by this complex and changing scenario However plant breeding and improvement is itself undergoing radical change driven by technology This book explores how forage and turf breeding is changing and adapting to meet these challenges using the technological advances being experienced in plant breeding as a whole Quantitative Traits Breeding for Multifunctional Grasslands and Turf Dejan Sokolović, Christian Huyghe, Jasmina Radović, 2014-09-12 Grasslands are among the largest ecosystems in the world and consequently are of great importance to mankind The genotypes of the species which are the main components of the grasslands have great influence on total outcome and successful utilization of grasslands Therefore fodder crops and turf swards should be constantly improved to follow modern trends in agriculture production and landscape architecture The wide range of breeding programs for forage and amenity species as well as new breeding methods and techniques is rapidly expanding the boundaries and is making it possible to achieve outstanding breeding results This book includes papers presented at the 30th EUCARPIA Fodder Crops and Amenity Grasses Section Meeting The challenging title of the book focuses on breeding of quantitative traits which directly impact the profitability and sustainability of grasslands and fodder crops production as well as on multidisciplinary approach in grassland research and utilisation Included papers offer a unique collection of ideas and breakthroughs in the fields of fodder crops and amenity grasses breeding and genetics as well as in the creative and innovative application of new tools in practical breeding

Festulolium David Kopecký, Arkadiusz Kosmala, A special issue of *Biologia Plantarum* entitled *Festulolium* from the nature to modern breeding This special issue contains 14 articles including eleven original research papers and three reviews which are focused on genetics ecology physiology biotechnology and the breeding value of *Festulolium* and various species within the *Festuca Lolium* complex *Breeding in a World of Scarcity* Isabel Roldán-Ruiz, Joost Baert, Dirk Reheul, 2016-06-13 This book includes papers presented at the 2015 meeting of the Fodder Crops and Amenity Grasses Section of Eucarpia The theme of the meeting Breeding in a world of scarcity was elaborated in four sessions 1 scarcity of natural resources 2 scarcity of breeders 3 scarcity of land and 4 scarcity of focus Parts I to IV of this book correspond to these four sessions Session 1 refers to the consequences of climate change reduced access to natural resources and declining freedom in using them Plant breeding may help by developing varieties with a more efficient use of water and nutrients and a better tolerance to biotic and abiotic stresses Session 2 refers to the shrinking number of field breeders There is a need for a mutual empathy between field and lab oriented breeding activities integrating new methods of phenotyping and genotyping Session 3 underscores the optimal use of agricultural land Forage needs to be intensively produced in a sustainable way meeting the energy protein and health requirements of livestock Well adapted varieties species and mixtures of grasses and legumes are needed Session 4 refers to the fading of focus in primary production triggered by a range of societal demands There are few farmers left and they are asked to meet many consumer demands Both large scale multi purpose species and varieties and specialized niche crops are required Part V summarizes the conclusions of two open debates two working group meetings and two workshops held during the conference The debates were devoted to the future of grass and fodder crop breeding and to feed quality breeding and testing The conference hosted meetings of the working groups Multisite rust evaluation and *Festulolium* Workshops focused on genomic selection and association mapping and on phenotyping with applications in practical breeding research Part V contains also short sketches of breeding ideas presented as short communications

Omics Technologies and Crop Improvement Nouredine Benkeblia, 2014-10-14 Increased world population decreased water supply and climate change all put stresses on the global food supply An exploration of the challenges and possible solutions to improve yields of the main crops such as cereals roots tubers and grasses *Omics Technologies and Crop Improvement* reviews data on food sciences and omics The book covers *Breeding Grasses and Protein Crops in the Era of Genomics* Gintaras Brazauskas, Gražina Statkevičiūtė, Kristina Jonavičienė, 2018-04-25 This book includes papers presented at the 2017 Joint meeting of Fodder Crops and Amenity Grasses Section and Protein Crops Working Group of EUCARPIA Oil and Protein Crops Section The theme of the meeting Breeding Grasses and Protein Crops in the Era of Genomics has been divided into six parts 1 Utilisation of genetic resources and pre breeding 2 Genetic improvement of quality and agronomic traits 3 Breeding for enhanced stress tolerance 4 Implementation of phenomics and biometrics 5 Development of genomic tools and bioinformatics and 6 Reports of Parallel Sessions

Climate Change

Alleviation for Sustainable Progression Moonisa Aslam Dervash, Akhlaq Amin Wani, 2022-09-22 The change in climatic conditions has resulted in a series of events from the melting of polar ice to the rising of sea levels This has affected low lying coastal areas by endangering plants and animals agriculture and livelihood patterns in general not to mention causing the outbreak of diseases like dengue malaria etc It is thus imperative that mitigation measures to stabilize or reduce the concentration of carbon dioxide is brought about A key step is the bio fixation of carbon from the atmosphere This book attempts to bring forth the role of vegetation in carbon sequestration The introductory chapters of the book deal with the understanding of the physical attributes governing climate on earth historical account of climate change impacts of climate change on different environs and eco strategies to combat climate change Detailed account of mechanism of carbon sources and sinks carbon credits and REDD are also discussed A sizeable portion of the book is dedicated to the climate change and phonological variability clean development mechanism and economic stability through natural resource management Academicians researchers policy makers and environmental stakeholders will find it a useful and comprehensive guide in the floristic and arboreal potential to sequester carbon dioxide and will suffice the diverse needs of teaching and research

Exploiting genetic diversity of forages to fulfil their economic and environmental roles: Proceedings of the 2021 Meeting of the Fodder Crops and Amenity Grasses Section of EUCARPIA Hartmann, Stephan, Kopecký, David, This book includes papers presented at the 2021 online meeting of the Fodder Crops and Amenity Grasses Section of EUCARPIA The theme of the meeting Exploiting genetic diversity of forages to fulfil their economic and environmental roles was presented in four sessions 1 Natural diversity a valuable source for breeding 2 Characterizing genetic diversity the basis for selection 3 Strategies to optimally exploit genetic diversity and 4 Minor and new species solution for future challenges Parts I to IV of this book correspond to these four sessions Part V contains the contributions from the Festulolium Working Group Workshop The book provides a unique source of information on the most recent results on breeding and research of forage species

Advances in Agronomy Donald L. Sparks, 2019-07-26 Advances in Agronomy Volume 157 continues to be recognized as a leading reference and first rate source for the latest research in agronomy Each volume contains an eclectic group of reviews by leading scientists throughout the world As always the subjects covered are rich varied and exemplary of the abundant subject matter addressed by this long running serial Includes numerous timely state of the art reviews on the latest advancements in agronomy Features distinguished well recognized authors from around the world Builds upon this venerable and iconic review series Covers the extensive variety and breadth of subject matter in the crop and soil sciences

Phytotechnology with Biomass Production Larry E. Erickson, Valentina Pidlisnyuk, 2021-06-14 The Open Access version of this book available at <https://www.taylorfrancis.com/books/edit/10.1201/9781003082613> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license This book explains the concept of using phytotechnology with biomass production to improve soil quality and restore contaminated sites to a useful state that has

economic and social value Phytotechnology with Biomass Production Sustainable Management of Contaminated Sites focuses on the application of second generation biofuel crops primarily Miscanthus to slightly contaminated or marginal postmilitary and postmining soils Based on recent and ongoing research from the United States Ukraine the Czech Republic and Germany along with case studies from other countries this is the first comprehensive book on using phytotechnology with biomass production at contaminated sites at a global level FEATURES Focuses on an important topic of a growing global activity soil improvement through biomass production Includes case studies and success stories from different countries on application of Miscanthus phytotechnology to sites differently contaminated by trace elements pesticides and petroleum products Discusses the peculiarities of Miscanthus production on postmilitary and postmining contaminated lands and the impact of plant growth regulators soil amendments fertilizers and biochar to the process Introduces soil fauna as indicators of soil health during Miscanthus phytotechnology application Presents Miscanthus value chain associated with the processing of Miscanthus biomass to different bioproducts While written primarily for faculty students research scientists environmental and agricultural professionals gardeners farmers landowners and government officials this book has value for all who are working on phytotechnology projects and phytomining to reduce risk and or improve soil quality at contaminated sites Phytotechnology with Biomass Production Sustainable Management of Contaminated Sites is also a great new resource for those who are new to the topic and want to learn to apply phytotechnologies and biomass production with further conversion into energy and bioproducts

Enjoying the Tune of Phrase: An Psychological Symphony within **Breeding Strategies For Sustainable Forage And Turf Grass Improvement**

In some sort of taken by monitors and the ceaseless chatter of quick conversation, the melodic beauty and mental symphony created by the published word often disappear into the backdrop, eclipsed by the relentless noise and disturbances that permeate our lives. Nevertheless, located within the pages of **Breeding Strategies For Sustainable Forage And Turf Grass Improvement** a charming literary prize full of organic thoughts, lies an immersive symphony waiting to be embraced. Crafted by a wonderful composer of language, this fascinating masterpiece conducts viewers on a mental trip, skillfully unraveling the concealed songs and profound impact resonating within each cautiously crafted phrase. Within the depths of the touching analysis, we will examine the book is central harmonies, analyze their enthralling publishing model, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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