

## Analysis of the genetic diversity and phylogenetic relationships of *Biscogniauxia mediterranea* isolates associated with cork oak

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**Abstract** *Biscogniauxia mediterranea* is one of the most frequent fungal pathogens involved in cork oak decline in the Mediterranean Basin, causing charcoal canker. In Portugal, this disease is widespread on adult declining trees but nowadays it increasingly affects young trees and exhibits atypical symptoms, leading to the hypothesis that some change in the fungus may have occurred. In order to evaluate the genetic diversity and phylogenetic relationship of *B. mediterranea* associated with cork oak, 102 isolates were obtained from young and adult trees of *Quercus suber* and other forest species with different disease expression, from several Mediterranean countries. The collection of isolates was analyzed by individual and multigenic phylogenies using Maximum-Likelihood approach based on nucleotide sequences of the internal transcribed spacers of ribosomal DNA, translation elongation factor 1- $\alpha$  and  $\beta$ -tubulin genes, and by microsatellite-primed PCR profiles. Sequence analyses separated the Mediterranean isolates from those from other regions, while MSP-PCR analysis revealed relevant but unstructured diversity among the Mediterranean isolates under study, making this a

monophyletic but diverse population. Considering the adaptive capacity of the fungus in the Mediterranean-climate ecosystems and the present climatic change scenario, all conditions are gathered to favor aggravation of the disease in cork oak stands.

**Keywords** Charcoal canker · Intraspecific variability · Mediterranean ecosystem · *Quercus suber*

### Introduction

*Biscogniauxia mediterranea* (De Not.) O. Kuntze is a xylobolous fungus responsible for a necrotic disease on stems and branches of hardwoods, known as charcoal canker. The fungus has a worldwide distribution and occurs in a wide range of hosts in particular on the genus *Quercus*, attacking individuals weakened by environmental stresses such as drought and fire (Vannini *et al.* 1999). This fungus is known to have a latent phase during which it lives asymptotically as an endophyte within the host (Mazzaglia *et al.* 2001a). When the tree is subjected to stress it spreads rapidly and a large number of black stromata harboring perithecia erupt simultaneously from the dead bark (Collado *et al.* 2004).

*B. mediterranea* was detected in cork oak (*Quercus suber* L.) in Portugal in 1930 (Climaco 1930). It has a high frequency of occurrence in highly degraded stands focusing systematically on trees in advanced phase of decline or dead and wood material lying on the ground, being thus considered as a secondary pathogen (Santos 2003). Nevertheless, recent observations describe the

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# Analysis Of Genetic Diversity And Phylogenetic

**Zhe Xu**



## **Analysis Of Genetic Diversity And Phylogenetic:**

**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

**Plant Pangenomes and Pangenomics** Jen-Tsung Chen, 2025-08-01 Plant Pangenomes and Pangenomics summarizes the current state of plant pangenomes and pangenomics as applied in a wide range of plant biology involving the subtopics of genome evolution phenotypic evolution population genetics and evolutionary developmental biology Explaining the resources and technologies of pangenomics with plant functional genomics the book also presents precision molecular breeding of crops to produce improved stress tolerance and climate smart capacities in an attempt to improve growth development enhanced production and quality It covers key critical stressors including temperature salt drought pollutants pests fungi bacteria and viruses This book is an complete guide for students researchers experts and professors with its discussions on all aspects of pangenomes and pangenomics from fundamental and advanced tools and current applications in the plant sciences to plant functional genomics plant stress physiology plant biotechnology plant pathology and plant breeding Focuses on advanced tools and recent applications of plant pangenomes and pangenomics and their integration with functional genomics Summarizes current achievements of plant pangenomics in stress physiology and an array of major research fields Provides the findings of pangenomics in plant evolutionary developmental biology

**Biotechnology of Fruit and Nut Crops, 2nd Edition** Richard E. Litz, Fernando Pliego-Alfaro, Jose Ignacio Hormaza, 2020-01-29 This book covers the biotechnology of all the major fruit and nut species Since the very successful first edition of this book in 2004 there has been rapid progress for many fruit and nut species in cell culture genomics and genetic transformation especially for citrus and papaya This book covers both these cutting edge technologies and regeneration pathways protoplast culture in vitro mutagenesis ploidy manipulation techniques that have been applied to a wider range of species Three crop species Diospyros kaki persimmon Punica granatum pomegranate and Eriobotrya japonica loquat are

included for the first time The chapters are organized by plant family to make it easier to make comparisons and exploitation of work with related species Each chapter discusses the plant family and the related wild species for 38 crop species and has colour illustrations It is essential for scientists and post graduate students who are engaged in the improvement of fruit nut and plantation crops

**Mulberry** Munir Ozturk, Azra N. Kamili, Volkan Altay, Gulab Khan Rohela, 2023-12-09 Mulberry *Morus* spp is widely distributed tree taxon found almost in every continent across the globe Habitat of this plant species is very much diversified as it is found across all climatic zones ranging from tropical sub tropical temperate tundra semi arid to desert arid conditions It flourishes on all types of landforms mountains valleys plateaus forests grasslands hills plains and arid lands Successful utilization of mulberry leaf for silkworm rearing and production of quality cocoons has been studied at length Now mulberry is being recognized as a multipurpose plant by most of the countries across the globe As mulberry is eco friendly in nature the propagation of mulberry needs to be done at large scale to address the ecological issues like conversion of arid lands to cultivable lands eco restoration of degraded lands bioremediation of polluted land sites conservation of water and soil cleaning the air pollution in urban areas utilization of mulberry in producing renewable energy in the form of biodiesel Similarly there is the need to produce the identified and highly commercially valued pharmaceutical compounds of mulberry under laboratory conditions through in vitro culture based secondary metabolite production through enhanced expression under the stress conditions or in presence of elicitors Lately protocols have been developed for genetic transformation of mulberry through agrobacterium mediated and particle bombardment mediated gene transfer techniques Biotechnology based molecular breeding techniques could also be utilized in raising the improved lines through marker assisted selection soma clonal variations mutational breeding somatic hybridization genome editing and other genetic engineering approaches Apart from sericulture mulberry should also be utilized and exploited in other sectors across the globe for additional revenue generation for livestock maintenance for environmental safety and in promoting human health These diversified aspects of mulberry coupled with its economic importance in revenue generation through sericulture animal husbandry and industrial products has prompted us to prepare this book It will present a comprehensive account of mulberry plant under 9 chapter headings introduction botanical features ecological features ecophysiological aspects interactions and development molecular aspects propagation and production economic importance and global perspectives as well as future approaches

**Diversity of Plants** S. John Britto, 2009 **Physiological, Molecular, and Genetic Perspectives of Wheat Improvement** Shabir H Wani, Amita Mohan, Gyanendra Pratap Singh, 2020-12-17 World population is growing at an alarming rate and may exceed 9.7 billion by 2050 whereas agricultural productivity has been negatively affected due to yield limiting factors such as biotic and abiotic stresses as a result of global climate change Wheat is a staple crop for 20% of the world population and its yield needs be augmented correspondingly in order to satisfy the demands of our increasing world population Green revolution the introduction of semi dwarf high yielding wheat varieties along with

improved agronomic management practices gave rise to a substantial increase in wheat production and self sufficiency in developing countries that include Mexico India and other south Asian countries Since the late 1980 s however wheat yield is at a standoff with little fluctuation The current trend is thus insufficient to meet the demands of an increasing world population Therefore while conventional breeding has had a great impact on wheat yield with climate change becoming a reality newer molecular breeding and management tools are needed to meet the goal of improving wheat yield for the future With the advance in our understanding of the wheat genome and more importantly the role of environmental interactions on productivity the idea of genomic selection has been proposed to select for multi genic quantitative traits early in the breeding cycle Accordingly genomic selection may remodel wheat breeding with gain that is predicted to be 3 to 5 times that of crossbreeding Phenomics high throughput phenotyping is another fairly recent advancement using contemporary sensors for wheat germplasm screening and as a selection tool Lastly CRISPR Cas9 ribonucleoprotein mediated genome editing technology has been successfully utilized for efficient and specific genome editing of hexaploid bread wheat In summary there has been exciting progresses in the development of non GM wheat plants resistant to biotic and abiotic stress and or wheat with improved nutritional quality We believe it is important to highlight these novel research accomplishments for a broader audience with the hope that our readers will ultimately adopt these powerful technologies for crops improvement in order to meet the demands of an expanding world population

**Molecular Marker Techniques** Nitish Kumar,2023-06-29

This edited book covers the applications of molecular markers in the genetic improvement of crop plants Recent advances in molecular marker techniques such as the development of high throughput genotyping platforms marker assisted selection and non coding RNA based markers have been discussed Essential information is provided on functional markers genotype by sequencing and association mapping methodologies that can facilitate accelerated crop breeding programs for increased yield high nutritional quality and tolerance to a variety of abiotic and biotic stresses This volume presents basic information on molecular marker techniques from marker location up to gene cloning The book includes a description of technical approaches in genome analysis such as comparison of marker systems positional cloning and array techniques This book is of interest to teachers researchers and plant breeders The book also serves as additional reading material for undergraduate and graduate students of agriculture horticulture and forestry

**Genetics Abstracts** ,2001 [Biotechnology to Enhance](#)

[Sugarcane Productivity and Stress Tolerance](#) Kalpana Sengar,2018-01-12 Sugarcane is the most important plant source for sugar and alcohol production and is cultivated in more than 80 countries in tropical and subtropical areas However environmental factors negatively influence its yield and jeopardize the prospect to meet the increasing demand for sugar other sugarcane derived by products and bioethanol The development of stress tolerant plants is fundamental for the maintenance and increase of crop yields Biotechnology to Enhance Sugarcane Productivity and Stress Tolerance provides a comprehensive account of both theoretical and practical aspects of sugarcane production It contains extensive coverage of

genome mapping and molecular breeding in sugarcane and presents the status of the elucidation and improvement of plant genomes of economic interest Through 14 chapters written by eminent scientists with global influence this book examines various methods for sugarcane improvement through biotechnology The book focuses on genetic and physical mapping positioning cloning and monitoring of desirable genes using biotechnological approaches for high sugarcane productivity and the development of stress tolerance Additional information includes the bioengineering of sugarcane procedures to boost productivity genetics and assessments for resistance to drought and salinity genetics for high yields and various topics of research on sugarcane genetics It serves as a detailed reference source for cane growers sugar and sugarcane technologists students and professors The Zoological Record ,2003 Proceedings of the Fifteenth Trifolium Conference ,1998

**The Indian Journal of Agricultural Sciences** ,2009-07 **Genetic Diversity in the Phaseolus Vulgaris Complex in Guatemala** Cesar Augusto Azurdia Perez,1994 *Zoological Record* ,2002 Nucleic Acids Abstracts ,1997 *Crop Science* ,2006 Proceedings of the International Symposium on Structural and Functional Genomics of Horticultural Plants Rod A. Drew,2007 **Sustainable Livestock Production in the Perspective of Food Security, Policy, Genetic**

**Resources, and Climate Change** Asian-Australian Association of Animal Production Societies. Congress,2014 Proceedings that contains a total of 754 abstracts consists of 368 papers for oral presentation and 386 papers for poster Preface

*Evolution at the Molecular Level* Robert K. Selander,Andrew G. Clark,Thomas S. Whittam,1991 The intent of this book is to present the content and capture the excitement of recent advances in the study of evolution that have been achieved through the integration of molecular biology and evolutionary genetics *Bibliography of Agriculture* ,1991

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