

FOREST GENETICS

The role of genetics in management and conservation of forest tree populations

Mousry A. El-Kassaby
a.el-kassaby@ubc.ca

Department of Forest Sciences
Forest Sciences Centre, 1004 Main Mall
University of British Columbia

Population Genetics In Forestry

Andrew Graham Young



Population Genetics In Forestry:

Population Genetics of Forest Trees W.T. Adams, Steven H. Strauss, Donald L. Copes, A.R. Griffin, 1992-11-30 Tropical climates which occur between 23° 30' N and S latitude Jacob 1988 encompass a wide variety of plant communities Hartshorn 1983 1988 many of which are diverse in their woody floras Within this geographic region temperature and the amount and seasonality of rainfall define habitat types UNESCO 1978 The FAO has estimated that there are about 19 million km² of potentially forested area in the global tropics of which 58% were estimated to still be in closed forest in the mid 1970s Sommers 1976 UNESCO 1978 Of this potentially forested region 42% is categorized as dry forest lifezone 33% is tropical moist forest and 25% is wet or rain forest Lugo 1988 The species diversity of these tropical habitats is very high Raven 1976 in Mooney 1988 estimated that 65% of the 250 000 or more plant species of the earth are found in tropical regions Of this floristic assemblage a large fraction are woody species In the well collected tropical moist forest of Barro Colorado Island Panama 39.7% 481 of 1212 species of the native phanerogams are woody arborescent species Croat 1978 Another 21.9% are woody vines and lianas Southeast Asian Dipterocarp forests may contain 120-200 species of trees per hectare Whitmore 1984 and recent surveys in upper Amazonia recorded from 89 to 283 woody species 10 cm dbh per hectare Gentry 1988 Tropical communities thus represent a global woody flora of significant scope

Population Genetics in Forestry Hans-Rolf Gregorius, 2013-03-13 When we consider the main object of forestry the tree it immediately becomes clear why experimental population geneticists have been so hesitant in making this object a primary concern of their research Trees are very long living organisms with generation intervals frequently exceeding those of their investigators by multiples They virtually exclude therefore application of the classical methods of population genetics since these are based on observing genetic structures over generations This situation where the limits set to observation are so severe particularly requires close cooperation between theory and experiment It also requires careful consideration of results obtained for organisms other than trees in order to gain additional insights by comparing the results for trees with those for other organisms Yet the greatest challenge to population and ecological genetics probably originates from the fact that forests are very likely to be the most complex ecosystems of all even in some cases where they are subject to intense management This complexity which equally comprises biotic and abiotic factors varying both in time and space makes extremely high demands on the adaptational capacity and thus flexibility of the carriers of such an ecosystem Longevity combined with immobility during the vegetative phase however appears to contradict the obvious necessity of adaptational flexibility in forest tree populations when compared with short lived and or mobile organisms

Population Genetics and Genetic Conservation of Forest Trees Ph Baradat, W. T. Adams, Gerhard Müller-Starck, 1995 **Tropical Forest Genetics** Reiner Finkeldey, Hans Heinrich Hattmer, 2006-11-22 This book is intended to provide information on fundamental genetic processes in tropical forests It is based on lecture notes by the authors prepared for post graduate students mainly from tropical countries of the M Sc course

Tropical and International Forestry at the Faculty of Forest Sciences and Forest Ecology Georg August University Göttingen Germany The intended readership is students researchers and practitioners interested in the genetic variation of species in particular forest trees living in complex forest ecosystems in the tropics Particular emphasis is placed on the human impact on forest genetic resources in the tropics Readers should be familiar with basics of classical and molecular genetics such as the structure and function of DNA double helix structure replication polypeptide synthesis transcription and translation and the transmission of genetic information during sexual reproduction Mendel's rules This knowledge is easily available from recently published genetics textbooks we recommend the book by Griffiths et al 2000 The development of biochemical and molecular marker techniques and their application to species of tropical forests have greatly improved our knowledge of genetic variation patterns of wild plants in the tropics during the last two decades Many examples in this book are based on gene marker techniques

Introduction to Quantitative Genetics in Forestry Gene Namkoong, 1981 **Forest Conservation Genetics** Andrew Graham Young, 2000 Basic genetic principles Genetic processes Threats to in situ genetic conservation Domestication and ex situ genetic conservation Monitoring socioeconomics and policy **Population**

Genetics in Forestry Hans-Rolf Gregorius, 1985-10-01 *Introduction to Forest Genetics* Jonathan Wright, 2012-12-02 *Introduction to Forest Genetics* examines some of the basic genetic concepts typically used in forestry and tree improvement studies including Mendelian and population genetics It also describes techniques that are generally useful in tree improvement work including individual tree selection and breeding provenance testing species and racial hybridization and introduction of exotics Organized into 19 chapters this volume begins with an overview of forest genetics and problems associated with forest genetics It then discusses concepts from basic genetics including chromosome structure and function DNA and RNA nongenetic inheritance and genotype versus phenotype Other chapters focus on inbreeding complete elimination of homozygous recessive trees mutation and migration and controlled pollination and vegetative propagation The book also covers the establishment and measurement of test plantations general principles and methods of selective breeding choice of breeding method and type of seed orchard heritability and genetic gain geographic variation in Scotch pine and American trees species and racial hybridization chromosome studies and polyploidy and haploidy breeding This book is a valuable resource for foresters professional tree breeders and those with or without previous training in genetics or forestry

Introduction to Quantitative Genetics in Forestry Gene Namkoong, 1979 *Population Genetics of Forest Trees* W. T. Adams, 1992 *Genetics and Genomics of Forest Trees* Filippou A. (Phil) Aravanopoulos, 2018-11-23 This book is a printed edition of the Special Issue Genetics and Genomics of Forest Trees that was published in *Forests* **Population Genetics in Forestry** H. R. (Ed.). GREGORIUS, 1985 *Forest Genetics* Timothy L. White, W. T. Adams, David B. Neale, 2007 This book which contains 20 chapters integrates the varied subdisciplines of genetics and their applications in gene conservation tree improvement and biotechnology Topics covered include genetic variation in natural forests the application of genetics in tree

improvement and breeding programmes and genomic sequences and molecular technologies This book will be a valuable resource for students scientists and professionals in the plant sciences especially forest geneticists tree breeders forest managers and other natural resource specialists Population Genetics of Forest Trees W.T. Adams, Steven H. Strauss, Donald L. Copes, A.R. Griffin, 2012-12-06 Tropical climates which occur between 23° 30' N and S latitude Jacob 1988 encompass a wide variety of plant communities Hartshorn 1983 1988 many of which are diverse in their woody floras Within this geographic region temperature and the amount and seasonality of rainfall define habitat types UNESCO 1978 The FAO has estimated that there are about 19 million km² of potentially forested area in the global tropics of which 58% were estimated to still be in closed forest in the mid 1970s Sommers 1976 UNESCO 1978 Of this potentially forested region 42% is categorized as dry forest lifezone 33% is tropical moist forest and 25% is wet or rain forest Lugo 1988 The species diversity of these tropical habitats is very high Raven 1976 in Mooney 1988 estimated that 65% of the 250 000 or more plant species of the earth are found in tropical regions Of this floristic assemblage a large fraction are woody species In the well collected tropical moist forest of Barro Colorado Island Panama 39 7% 481 of 1212 species of the native phanerogams are woody arborescent species Croat 1978 Another 21 9% are woody vines and lianas Southeast Asian Dipterocarp forests may contain 120 200 species of trees per hectare Whitmore 1984 and recent surveys in upper Amazonia recorded from 89 to 283 woody species 10 cm dbh per hectare Gentry 1988 Tropical communities thus represent a global woody flora of significant scope

Population Genetics of Forest Trees International Union of Forestry Research Organizations. Working Party on Biochemical Genetics, International Union of Forestry Research Organizations. Working Party on Population and Ecological Genetics, 1992 Biochemical Markers in the Population Genetics of Forest Trees Silvia Fineschi, 1991 **Population Genetics of Forest Trees**, Population Genetics in Forestry Catherine A. Macken, IUFRO Working Party "Ecological and Population Genetics." Meeting, Ingemar Näsell, 1985 **Genetics of Forest Ecosystems** K. Stern, L. Roche, 2012-12-06 Throughout the world natural forest ecosystems have been and are being massively disrupted or destroyed The boreal forests of Canada are no more immune to man's intervention than the tropical rain forests of Africa and the day is rapidly approaching when natural forest ecosystems undisturbed by man will be found only as remnants in national parks and other protected areas Yet where they continue to exist these ecosystems are an extraordinarily rich though relatively neglected source of data that illuminate many aspects of the classic theory of evolution The subject matter of this book is not however confined to natural forest ecosystems Forest ecosystems under varying degrees of management and man made forests are also a rich source of information on ecological genetics In general however it can be said that the published evidence of this fact has not yet significantly penetrated the botanical literature All too frequently it is confined to what might be termed forestry journals It is hoped that this book will to some extent redress the balance and draw attention to a body of published work which not only provides a basis for the rational management and conservation of forest ecosystems but also

complements the literature of ecological genetics and evolution The first draft of Chapters I to V was written in German by the senior author and translated by E K MORGENSTERN of the Canadian Forestry Service **Introduction to**
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Population Genetics In Forestry Book Review: Unveiling the Magic of Language

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