

Analysis Of Genetic Diversity And Phylogenetic

Yuri Kartavtsev

The Molecular Basis of Plant Genetic Diversity Mahmut Caliskan,2012-03-30 The Molecular Basis of Plant Genetic Diversity presents chapters revealing the magnitude of genetic variations existing in plant populations. Natural populations contain a considerable genetic variability which provides a genomic flexibility that can be used as a raw material for adaptation to changing environmental conditions. The analysis of genetic diversity provides information about allelic variation at a given locus. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in plants and also, the detection of genes influencing economically important traits. The purpose of the book is to provide a glimpse into the dynamic process of genetic variation by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed for the assessment of genetic diversity, often from very different perspectives. The book should prove useful to students, researchers, and experts in the area of conservation biology, genetic diversity, and molecular biology.

Phylogenetic Relationships and Genetic Diversity Detected by Rapd and Isozyme Analysis of Crop and Weedy Species of Amaranthus 林林, Kin-Fung Chan,2017-01-27 This dissertation, Phylogenetic Relationships and Genetic Diversity Detected by Rapd and Isozyme Analysis of Crop and Weedy Species of Amaranthus by 林林, Kin-fung, Chan, was obtained from The University of Hong Kong (Pokfulam, Hong Kong) and is being sold pursuant to Creative Commons: Attribution 3.0 Hong Kong License. The content of this dissertation has not been altered in any way. We have altered the formatting in order to facilitate the ease of printing and reading of the dissertation. All rights not granted by the above license are retained by the author. Abstract: Amaranths/M.Phil. Thesis/K.F. Chan Abstract of thesis entitled PHYLOGENETIC RELATIONSHIPS AND GENETIC DIVERSITY DETECTED BY RAPD AND ISOZYME ANALYSIS OF CROP AND WEEDY SPECIES OF AMARANTHUS submitted by Simon, Kin-fung Chan for the degree of Master of Philosophy at the University of Hong Kong in March 1996 The genus Amaranthus consists of about 75 cultivated and wild species distributed throughout the world. Grain amaranths are noted for the high protein quality and quantity in their seeds, and accordingly extensive research has been conducted on agronomic aspects of the development of this crop. However, only a few previous studies have been concerned with the genetic diversity and phylogenetic relationships of Amaranthus, and in particular, with the evolution of the grain amaranths. In the present study, an efficient and accurate study of the genetic variation and genetic relationships of amaranths was

performed by using both RAPD and isozyme markers. A total of 23 species and 60 populations of cultivated and wild amaranths were studied. High levels of interspecific and intraspecific variation were found. More than 600 RAPD markers were produced from 27 primers, and 132 alleles were detected for 15 enzymes. Total gene diversity for grain amaranths and wild species was 0.39 and 0.72 respectively. The polymorphism assays clarified the relationships of grain amaranths (*A. caudatus*, *A. cruentus*, *A. hypochondriacus*) and their putative ancestors (*A. hybridus*, *A. powellii*, and *A. quitensis*), and the results point toward a monophyletic origin of the grain amaranths. In addition, the genetic diversity and relationships of other species of amaranths were determined. Phenograms showing their phylogenetic relationships were constructed by cluster analysis. This information is useful for an efficient utilization of the available germplasm resources in the development of amaranths as an expanding crop of the future. 2 DOI: 10.5353/th_b2980384
Subjects: Grain amaranths Isoenzymes

Genetic Diversity in Microorganisms Mahmut Caliskan,2012-02-24 Genetic Diversity in Microorganisms presents chapters revealing the magnitude of genetic diversity of microorganisms living in different environmental conditions. The complexity and diversity of microbial populations is by far the highest among all living organisms. The diversity of microbial communities and their ecologic roles are being explored in soil, water, on plants and in animals, and in extreme environments such as the arctic deep-sea vents or high saline lakes. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in microorganisms. The purpose of the book is to provide a glimpse into the dynamic process of genetic diversity of microorganisms by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed for the assessment of genetic diversity, often from very different perspectives. The book should prove useful to students, researchers, and experts in the area of microbial phylogeny, genetic diversity, and molecular biology.

The Molecular Basis of Plant Genetic Diversity Mahmut Caliskan,2012-03-30 The Molecular Basis of Plant Genetic Diversity presents chapters revealing the magnitude of genetic variations existing in plant populations. Natural populations contain a considerable genetic variability which provides a genomic flexibility that can be used as a raw material for adaptation to changing environmental conditions. The analysis of genetic diversity provides information about allelic variation at a given locus. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in plants and also, the detection of genes influencing economically important traits. The purpose of the book is to provide a glimpse into the dynamic process of genetic variation by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed for the assessment of genetic diversity, often from very different perspectives. The book should prove useful to students, researchers, and experts in the area of conservation biology, genetic diversity, and molecular biology.

Genetic Diversity of Brazilian Cyanobacteria Revealed by Phylogenetic Analysis Maria do Carmo,2012 Genetic Diversity of Brazilian Cyanobacteria Revealed by Phylogenetic Analysis.

Exploring the Genetic Diversity of Marine Organisms Based on the Analysis of Chromosome and Genomic DNA Markers Dongdong Xu,Zhiqiang Han,Tifeng Shan,Cassia Fernanda Yano,2021-11-25

Molecular Tools in Plant Genetic Resources Conservation A. Karp,1997 Proceedings of a workshop on the use of molecular techniques in the conservation of plant genetic resources.

Phylogenetic Relationships and Genetic Diversity Detected by Rapd and Isozyme Analysis of Crop and Weedy Species of *Amaranthus* Kin-fung Chan,University of Hong Kong,1996

Genomic Diversity Surinder Singh Papiha,Ranjan Deka,Ranajit Chakraborty,2012-12-06 One of the major themes of human population genetics is assaying genetic variation in human populations. The ultimate goal of this objective is to understand the extent of genetic diversity and the use of this knowledge to reconstruct our evolutionary history. The discipline had undergone a revolutionary transition with the advent of molecular techniques in the 1980s. With this shift, statistical methods have also been developed to perceive the biological and molecular basis of human genetic variation. Using the new perspectives gained during the above transition, this volume describes the applications of molecular markers spanning the autosomal, Y-chromosomal and mitochondrial genome in the analysis of human diversity in contemporary populations. This is the first reference book of its kind to bring together data from these diverse sets of markers for understanding evolutionary histories and relationships of modern humans in a single volume.

*Genetic Diversity and Phylogenetic Analysis of the Black Basses Emphasizing the Alabama Spotted Bass (*Micropterus Punctulatus Henshalli* ; Rafinesque), the Redeye Bass (*M. Coosae* ; Hubbs and Bailey), and the Neosho Smallmouth Bass (*M. Dolomieu Velox* ; Lacépède) as Inferred by Mitochondrial DNA Analysis* Robert Christopher Hutts,2004

Genetic Diversity in Microorganisms Mahmut Caliskan,2012-02-24 Genetic Diversity in Microorganisms presents chapters revealing the magnitude of genetic diversity of microorganisms living in different environmental conditions. The complexity and diversity of microbial populations is by far the highest among all living organisms. The diversity of microbial communities and their ecologic roles are being explored in soil, water, on plants and in animals, and in extreme environments such as the arctic deep-sea vents or high saline lakes. The increasing availability of PCR-based molecular markers allows the detailed analyses and evaluation of genetic diversity in microorganisms. The purpose of the book is to provide a glimpse into the dynamic process of genetic diversity of microorganisms by presenting the thoughts of scientists who are engaged in the generation of new ideas and techniques employed for the assessment of genetic diversity, often from very different perspectives. The book should prove useful to students, researchers, and experts in the area of microbial phylogeny, genetic diversity, and molecular biology.

A Companion to Anthropological Genetics Dennis H. O'Rourke, 2019-02-27 Explore the latest research in anthropological genetics and understand the genome's role in cultural and social development. A Companion to Anthropological Genetics illustrates the role of genetic analysis in advancing the modern study of human origins, populations, evolution, and diversity. Broad in scope, this essential reference work establishes and explores the relationship between genetic research and the major questions of anthropological study. Through contributions by leading researchers, this collection explores molecular genetics and evolutionary mechanisms in the context of macro- and microevolution, paleontology, phylogeny, diet, and disease, with detailed explanations of quantitative methods, including coalescent and approximate Bayesian computation. With an emphasis on contextualizing new and developing genetic research within anthropological frameworks, this text offers critical perspective on the conditions of molecular evolution that accompany cultural and social transformation, while also addressing critical disciplinary questions, such as the ethical issues surrounding ancestry testing and community-based genetic research. Acts as an essential reference on the contributions of genetic science to the field of anthropology. Features new work by leading researchers of the field. Explores the evolution of immunity, including the genetics and epigenetics of pathogens, chronic illness, and disease resistance. Provides in-depth examination of mutation and dietary adaptation, including AMY1, lactase persistence, and sensory polymorphisms. Explains essential quantitative and phylogenetic methods for aligning genomic analysis with evolution and migration time scales. Offering thorough coverage on leading questions and developing research, A Companion to Anthropological Genetics is a comprehensive resource for students and scholars.

Molecular Evolution and Population Genetics for Marine Biologists Yuri Kartavtsev, 2015-08-24 Research in modern experimental and theoretical population genetics has been strengthened by advances in molecular techniques for the analysis of genetic variability. The evolutionary relationships of organisms may be investigated by comparing DNA sequences. This book covers chapters on population genetics, DNA polymorphism, genetic homeostasis, an

Ecological Genetics Andrew Lowe, Stephen Harris, Paul Ashton, 2009-04-01 Ecological Genetics addresses the fundamental problems of which of the many molecular markers should be used and how the resulting data should be analysed in clear, accessible language, suitable for upper-level undergraduates through to research-level professionals. A very accessible straightforward text to deal with this difficult topic - applying modern molecular techniques to ecological processes. Written by active researchers and teachers within the field. There will be an accompanying web site managed by the authors, comprising of worked examples, test data sets and hyperlinks to relevant web pages.

Human Evolutionary Genetics Mark Jobling, Edward Hollox, Toomas Kivisild, Chris Tyler-Smith, 2013-06-25 Human Evolutionary Genetics is a groundbreaking text which for the first time brings together molecular genetics and genomics to the study of the origins and movements of human populations. Starting with an overview of molecular genomics for the non-specialist (which can be a useful review for those with a more genetic background), the book shows h

Molecular Genetic Approaches in Conservation Thomas B. Smith, Robert K. Wayne, 1996-10-24 Molecular techniques are proving invaluable in determining the phylogenetic status of potentially endangered species, for investigating mechanisms of speciation, and for measuring the genetic structure of populations. It is increasingly important for ecologists and evolutionary and conservation biologists to understand and use such molecular techniques, but most workers in these areas have not been trained in molecular biology. This book lays out the principles and basic techniques for the molecular tools appropriate for addressing issues in conservation, and it presents case studies showing how these tools have been used successfully in conservation biology. Examples include the genetic analysis of population structure, various uses of DNA in conservation genetics, and estimation of migration parameters from genetic data. Wildlife managers, as well as researchers in these areas, will find this a valuable book.

Genes, Language, & Culture History in the Southwest Pacific Jonathan S. Friedlaender, 2007-04-19 The broad arc of islands north of Australia that extends from Indonesia east towards the central Pacific is home to a set of human populations whose concentration of diversity is unequaled elsewhere. Approximately 20% of the world's languages are spoken here, and the biological and genetic heterogeneity among the groups is extraordinary. Anthropologist W.W. Howells once declared diversity in the region so Protean as to defy analysis. However, this book can now claim considerable success in describing and understanding the origins of the genetic and linguistic variation there. In order to cut through this biological knot, the authors have applied a comprehensive battery of genetic analyses to an intensively sampled set of populations, and have subjected these and complementary linguistic data to a variety of phylogenetic analyses. This has revealed a number of heretofore unknown ancient Pleistocene genetic variants that are only found in these island populations, and has also identified the genetic footprints of more recent migrants from Southeast Asia who were the ancestors of the Polynesians. The book lays out the very complex structure of the variation within and among the islands in this relatively small region, and a number of explanatory models are tested to see which best account for the observed pattern of genetic variation here. The results suggest that a number of commonly used models of evolutionary divergence are overly simple in their assumptions, and that often human diversity has accumulated in very complex ways.

Chromosomal Evolution in Higher Plants George Ledyard Stebbins, 1971

Molecular Evolution and Phylogenetics Masatoshi Nei, Sudhir Kumar, 2000-07-27 During the last ten years, remarkable progress has occurred in the study of molecular evolution. Among the most important factors that are responsible for this progress are the development of new statistical methods and advances in computational technology. In particular, phylogenetic analysis of DNA or protein sequences has become a powerful tool for studying molecular evolution. Along with this developing technology, the application of the new statistical and computational methods has become more complicated and there is no comprehensive volume that treats these methods in depth. *Molecular Evolution and Phylogenetics* fills this

gap and present various statistical methods that are easily accessible to general biologists as well as biochemists, bioinformaticists and graduate students. The text covers measurement of sequence divergence, construction of phylogenetic trees, statistical tests for detection of positive Darwinian selection, inference of ancestral amino acid sequences, construction of linearized trees, and analysis of allele frequency data. Emphasis is given to practical methods of data analysis, and methods can be learned by working through numerical examples using the computer program MEGA2 that is provided.

Phylogenetic and Genetic Variation Analyses in Cucurbit Species (Cucurbitaceae) from West Africa Enoch G. Achigan-Dako, 2008

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