

Introduction To Quantitative Genetics By Falconer Mackay

Introduction to Quantitative Genetics (Classic Reprint) Introduction to Quantitative Genetics Perspectives on Genetics Evolution and Selection of Quantitative Traits New Developments for Embracing Genomic Selection in Breeding Applications Quantitative Genetics Introduction to Quantitative Genetics Handbook of Maize: Its Biology Evolutionary Biology Genetics of Body Weight of Ring-necked Pheasant (Phasianus Colchicus) Population Problems on Quantitative Genetics Introduction to Quantitative Genetics Molecular Plant Breeding Genetics Endocrine Genetics Bovine Genomics Soviet Genetics Quantitative Genetics: Selection Genetics Lectures Techniques and Procedures in Animal Science Research D. S. Falconer Douglas S. Falconer James Franklin Crow Bruce Walsh Diego Jarquin Armando Caballero D. S. Falconer Jeff L. Bennetzen Mitchell B. Cruzan John F. Kassid Douglas Scott Falconer Douglas Scott Falconer Yunbi Xu Jackie Isabell Society for Endocrinology James Womack William G. Hill American Society of Animal Science

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excerpt from introduction to quantitative genetics i have had no particular class of reader

exclusively in mind but have tried to make the book useful to as wide a range of readers as possible in consequence some will find less detail than they require and others more those who intend to become specialists in this branch of genetics or in its application to animal or plant breeding will find all they require of the general principles but will find little guidance in the techniques of experimentation or of breeding practice those for whom the subject forms part of a course of general genetics will find a good deal more detail than they require the section headings however should facilitate the selection of what is relevant and any of the following chapters could be omitted without serious loss of continuity chapters 4 5 10 after p 12 13 and i 5 20 about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks.com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

the latest edition of this classic text continues to provide the basis for understanding the genetic principles behind quantitative differences in phenotypes and how they apply to animal and plant improvement and evolution it extends these concepts to the segregation of genes that cause genetic variation in quantitative traits key techniques and methods are also covered

for more than ten years the distinguished geneticists james f crow and william f dove have edited the popular perspectives column in genetics the journal of the genetics society of america this book perspectives on genetics collects more than 100 of these essays which cumulatively are a history of modern genetics research and its continuing evolution

quantitative traits be they morphological or physiological characters aspects of behavior or genome level features such as the amount of rna or protein expression for a specific gene usually show considerable variation within and among populations quantitative genetics also referred to as the genetics of complex traits is the study of such characters and is based on mathematical models of evolution in which many genes influence the trait and in which non genetic factors may also be important evolution and selection of quantitative traits presents a holistic treatment of the subject showing the interplay between theory and data

with extensive discussions on statistical issues relating to the estimation of the biologically relevant parameters for these models quantitative genetics is viewed as the bridge between complex mathematical models of trait evolution and real world data and the authors have clearly framed their treatment as such this is the second volume in a planned trilogy that summarizes the modern field of quantitative genetics informed by empirical observations from wide ranging fields agriculture evolution ecology and human biology as well as population genetics statistical theory mathematical modeling genetics and genomics whilst volume 1 1998 dealt with the genetics of such traits the main focus of volume 2 is on their evolution with a special emphasis on detecting selection ranging from the use of genomic and historical data through to ecological field data and examining its consequences

an up to date accessible guide to the main concepts and applications of quantitative genetics

maize is one of the world s highest value crops with a multibillion dollar annual contribution to agriculture the great adaptability and high yields available for maize as a food feed and forage crop have led to its current production on over 140 million hectares worldwide with acreage continuing to grow at the expense of other crops in terms of tons of cereal grain produced worldwide maize has been number one for many years moreover maize is expanding its contribution to non food uses including as a major source of ethanol as a fuel additive or fuel alternative in the us in addition maize has been at the center of the transgenic plant controversy serving as the first food crop with released transgenic varieties by 2008 maize will have its genome sequence released providing the sequence of the first average size plant genome the four plant genomes that are now sequenced come from unusually tiny genomes and of the most complex genome sequenced from any organism beyond its major agricultural and economic contributions maize has been a model species for genetics since it was the first plant to have a genetic map initially published by emerson and colleagues in 1935 such central genetic phenomena as telomeres nucleolar organizers transposable elements and epigenetic gene regulation were all discovered first in maize and later found to be universal eukaryotic genome properties these central genetic contributions continue including the characterization of the structure and evolution of complex plant genomes among plant science researchers maize has the second largest and most productive research community trailing only the arabidopsis community in scale and significance at the applied research and commercial improvement levels maize has no peers in agriculture and consists of thousands of contributors worthwhile a comprehensive book on the biology of maize has not been published in 1999 peterson and bianchi published maize genetics and

breeding in the 20th century a highly personal account of the last hundred years of maize genetics in 1968 and 1996 two editions of the mutants of maize were published and these have been landmark books showing and briefly describing the contemporary genetic and molecular status of the maize mutant collection a collection unsurpassed for any other organism animal or plant in the last seven years there has been no publication targeting maize genetics genomics or overall biology hence a modern and comprehensive volume on the status and future of maize as a species for biological study is highly warranted handbook of maize its biology centers on the past present and future of maize as a model for plant science research and crop improvement the book includes brief focused chapters from the foremost maize experts and features a succinct collection of informative images representing the maize germplasm collection

many of the characteristics that distinguish plants from other living organisms can be traced to their origin early in the history of life features such as a multicellular haploid life stage prevalent hermaphroditism self fertilization and general dependence on biotic and abiotic vectors for reproduction stem directly from the ability of plants to obtain energy from the sun this novel mode of energy capture had far ranging implications for plant evolution it not only fueled the tremendous diversification of life on earth but also had far ranging implications for the evolution of early photosynthetic organisms and eventually land plants understanding the evolutionary processes for the proliferation and diversification of plants requires an appreciation of their unique biological features while the processes of mutation selection genetic drift and gene flow are the same for both plants and animals there are specific characteristics of plants that affect their evolution unique traits of plants affect everything from the fate of mutations to exposure to selection in the haploid life stage to the distribution of genetic variation within and among populations and ultimately the rates and patterns of diversification this book examines the origins of the unique features of plants and the implications of these features for evolutionary processes author mitchell b cruzan provides discussion of contemporary topics such as population genetics phylogeography phylogenetics ecological genetics and genomics the content covered is essential to a wide range of advanced courses in plant biology

an introductory textbook with the emphasis on general principles rather than on practical applications it covers a range of topics in genetics including mutation and this edition includes the developments of the previous 20 years as well as more material on plants

recent advances in plant genomics and molecular biology have revolutionized our understanding of plant genetics providing new opportunities for more efficient and controllable plant breeding successful techniques require a solid understanding of the underlying molecular biology as well as experience in applied plant breeding bridging the gap between developments in biotechnology and its applications in plant improvement molecular plant breeding provides an integrative overview of issues from basic theories to their applications to crop improvement including molecular marker technology gene mapping genetic transformation quantitative genetics and breeding methodology

this book provides breeder with a comprehensive yet easy to understand guide to the nature of heredity the application of genetics to specific breeds how to control genetic disorders and the art of breed selection

the genetic information being unlocked by advances in genomic and high throughput technologies is rapidly revolutionizing our understanding of developmental processes in bovine species this information is allowing researchers unprecedented insight into the genetic basis of key traits bovine genomics is the first book to bring together and synthesize the information learned through the bovine genome sequencing project and look at its practical application to cattle and dairy production bovine genomics opens with foundational chapters on the domestication of cattle and traditional mendelian genetics building on these chapters coverage rapidly moves to quantitative genetics and the advances of whole genome technologies significant coverage is given to such topics as epigenetics mapping quantitative trait loci genome wide association studies and genomic selection in cattle breeding the book is a valuable synthesis of the field written by a global team of leading researchers providing wide ranging coverage of the topic bovine genomic is an essential guide to the field the basic and applied science will be of use to researchers breeders and advanced students

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Introduction

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