

Falconer Introduction To Quantitative Genetics

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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

although the field of quantitative genetics the study of the genetic basis of variation in quantitative characteristics such as body size or reproductive success is almost 100 years old its application to the study of evolutionary processes in wild populations has expanded greatly over the last few decades during this time the use of wild quantitative genetics has provided insights into a range of important questions in evolutionary ecology ranging from studies conducting research in well established fields such as life history theory behavioural ecology and sexual selection to others addressing relatively new issues such as populations responses to climate change or the process of senescence in natural environments across these fields there is increasing appreciation of the need to quantify the genetic rather than just the phenotypic basis and diversity of key traits the genetic basis of the associations between traits and the interaction between these genetic effects and the environment this research activity has been fuelled by methodological advances in both molecular genetics and statistics as well as by exciting results emerging from laboratory studies of evolutionary quantitative genetics and the increasing availability of suitable long term datasets collected in natural populations especially in animals quantitative genetics in the wild is the first book to synthesize the current level of knowledge in this exciting and rapidly expanding area this comprehensive volume also offers exciting perspectives for future studies in emerging areas including the application of quantitative genetics to plants or arthropods unraveling the molecular basis of variation in quantitative traits or estimating non additive genetic variance since this book deals with many fundamental questions in evolutionary ecology it should be of interest to graduate post graduate students and academics from a wide array of fields such as animal behaviour ecology evolution and genetics

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no detailed description available for quantitative genetics and selection in plant breeding

the impetus for this book arose out of my previous book the evolution of life histories roff 1992 in that book i presented a single chapter on quantitative genetic theory however as the book was concerned with the evolution of life histories and traits connected to this the presence of quantitative genetic variation was an underlying theme throughout much of the focus was placed on optimality theory for it is this approach that has proven to be extremely successful in the analysis of life history variation but quantitative genetics cannot be ignored because there are some questions for which optimality approaches are inappropriate for example although optimality modeling can address the question of the maintenance of phenotypic variation it cannot say anything about genetic variation on which further evolution clearly depends the present book is thus a natural extension of

the first i have approached the problem not from the point of view of an animal or plant breeder but from that of one interested in understanding the evolution of quantitative traits in wild populations the subject is large with a considerable body of theory i generally present the assumptions underlying the analysis and the results giving the relevant references for those interested in the intervening mathematics my interest is in what quantitative genetics tells me about evolutionary processes therefore i have concentrated on areas of research most relevant to field studies

about the book this book deals with the problems of students teachers and researchers associated with the subject of genetics plant and animal breeding basic concepts necessary to explain statistical measures and analysis of data are also incorporated path analysis heritability repeatability genotypic and phenotypic correlations analysis of breeding experiments by hayman s approach and otherwise combining ability analysis for griffing s models line x tester analysis stability analysis etc are explicated theoretically and also by demonstrating thoroughly worked examples this book will also bridge the gap between consulting statisticians and breeders in a broader sense this book is good for students and researchers in the areas of biology plant breeding animal breeding etc in multifarious ways contents basics of genetics path analysis heritability and repeatability breeding and data analysis combining ability analysis stability analysis

quantitative genetic variation describes some of the experimental approaches to quantitative genetic variation along with their potential applications and limitations it considers one of the most widely applicable tools i e biometrical analysis as well as individual polygenic effects specific components of a quantitative genetic trait and artificial selection and it shows how selection experiments can address specific developmental and genetic questions organized into four sections encompassing 17 chapters this volume begins with a historical overview of the study of quantitative genetic variation along with genetic variation in fungi and drosophila it then discusses the biometrical approach to quantitative variation selection theory and analysis uses and limitations of polygene mapping and computer simulation of the breeding program for polygene location the reader is also introduced to genes affecting quantitative aspects of physiology in rodents as well as cytological markers and quantitative variation in wheat this book will be extremely useful to students researchers and geneticists

almost every trait in nature shows variation both within populations and between populations and species the field of quantitative genetics is the very broad umbrella that attempts to separate environmental from genetic sources of variation as a result it has powerful applications in animal and plant breeding evolution ecology medicine anthropology behaviour population genetics conservation biology genomics and statistics this second edition of genetics and analysis of quantitative traits is a fully rewritten and greatly expanded revision of the first edition published in 1998 which provided the first modern unified treatment of quantitative genetics in the past two decades there have

been massive advancements in the field coupled with explosive growth in new quantitative methods those developments are covered in this new edition the book weaves important biological applications with a full development of the theory and appropriate statistical tools there are extensive discussions of important linear algebra tools linear and mixed models likelihood and bayesian estimation as well as false discovery rates multiple comparisons and meta analysis more than 100 worked examples ranging from microbes to humans illustrate the key concepts using real world applications this extensive reference will be suitable for graduate level students and professional researchers both empiricists and theoreticians in the fields of evolutionary biology genetics and genomics it will also be of particular relevance and use to applied evolutionary biologists working in breed improvement for agriculture human geneticists and statisticians

this book emphasizes discussion of the underlying principles of the theory of quantitative genetics which provides the bridge between the observable statistical properties of a character and the genetic factors which together with environmental factors determine the expression of the character an essential reference for anyone concerned with quantitative genetics provides the only review available of the parts of quantitative genetics relevant to evolutionary theory science

the revised edition of the bestselling textbook covering both classical and molecular plant breeding principles of plant genetics and breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding combining both classical and molecular tools this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants particularly in response to the increasing demands to of growing populations illustrated chapters cover a wide range of topics including plant reproductive systems germplasm for breeding molecular breeding the common objectives of plant breeders marketing and societal issues and more now in its third edition this essential textbook contains extensively revised content that reflects recent advances and current practices substantial updates have been made to its molecular genetics and breeding sections including discussions of new breeding techniques such as zinc finger nuclease oligonucleotide directed mutagenesis rna dependent dna methylation reverse breeding genome editing and others a new table enables efficient comparison of an expanded list of molecular markers including allozyme rflps rapd ssr issr damd aflp snps and ests also new and updated industry highlights sections provide examples of the practical application of plant breeding methods to real world problems this new edition organizes topics to reflect the stages of an actual breeding project incorporates the most recent technologies in the field such as crspr genome edition and grafting on gm stock includes numerous illustrations and end of chapter self assessment questions key references suggested readings and links to relevant websites features a companion website containing additional artwork and instructor resources principles of plant

genetics and breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science particularly those studying plant breeding biotechnology and genetics

the explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field brenner s encyclopedia of genetics second edition seven volume set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published the currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike featuring relatively short entries on genetics topics written by experts in that topic brenner s encyclopedia of genetics second edition seven volume set provides an effective way to quickly learn about any aspect of genetics from abortive transduction to zygotes adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study many of the entries include figures to explain difficult concepts key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries this 7 volume set represents a 25 expansion from the first edition with over 1600 articles encompassing this burgeoning field thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first edition timely coverage of emergent areas such as epigenetics personalized genomic medicine pharmacogenetics and genetic enhancement technologies interdisciplinary and global in its outlook as befits the field of genetics brief articles written by experts in the field which not only discuss define and explain key elements of the field but also provide definition of key terms suggestions for further reading and biographical sketches of the key people in the history of genetics

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

loss of biodiversity is among the greatest problems facing the world today conservation and the genetics of populations gives a comprehensive overview of the essential background concepts and tools needed to understand how genetic information can be used to conserve species threatened with extinction and to manage species of ecological or commercial importance new molecular techniques statistical methods and computer programs genetic principles and methods are becoming increasingly useful in the conservation of biological diversity using a balance of data and theory coupled with basic and applied research examples this book examines genetic and phenotypic variation in natural populations the principles and mechanisms of evolutionary change the interpretation of genetic data from natural populations and how these can be applied to

conservation the book includes examples from plants animals and microbes in wild and captive populations this second edition contains new chapters on climate change and exploited populations as well as new sections on genomics genetic monitoring emerging diseases metagenomics and more one third of the references in this edition were published after the first edition each of the 22 chapters and the statistical appendix have a guest box written by an expert in that particular topic including james crow louis bernatchez loren rieseberg rick shine and lisette waits this book is essential for advanced undergraduate and graduate students of conservation genetics natural resource management and conservation biology as well as professional conservation biologists working for wildlife and habitat management agencies additional resources for this book can be found at wiley.com/go/allendorf populations

animal breeding has been complicated by persisting factors across species cultures geography and time in made to order margaret e derry explains these factors and other breeding concerns in relation to both animals and society in north america and europe over the past three centuries made to order addresses how breeding methodology evolved what characterized the aims of breeding and the way structures were put in place to regulate the occupation illustrated by case studies on important farm animals and companion species the book presents a synthetic overview of livestock breeding as a whole it gives considerable emphasis to genetics and animal breeding in the post 1960 period the relationship between environmental and improvement breeding and regulation of breeding as seen through pedigrees in doing so made to order shows how studying the ancient human practice of animal breeding can illuminate the ways in which human thinking theorizing and evolving characterize our interactions with all natural processes

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