Genetics and Analysis of Quantitative Traits

Michael Lynch, Bruce Walsh
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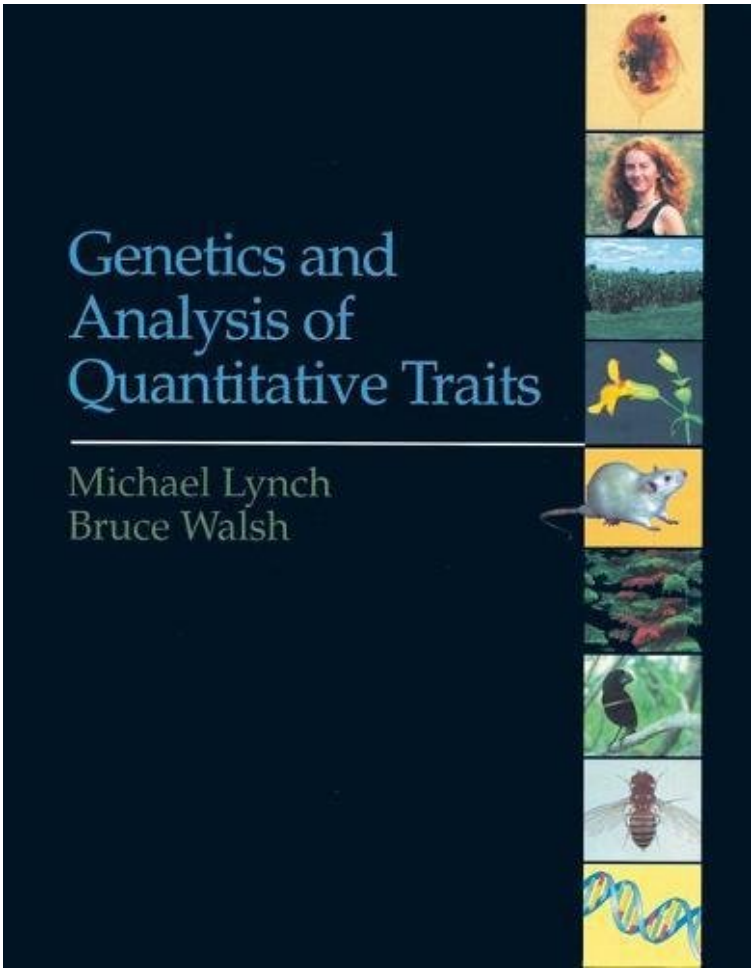

#922772 in Books 1998-01-06Original language:EnglishPDF # 1 7.60 x 1.50 x 9.30l, 3.45 #File Name: 0878934812980 pages | File size: 76.Mb

Michael Lynch, Bruce Walsh : Genetics and Analysis of Quantitative Traits before purchasing it in order to gage whether or not it would be worth my time, and all praised Genetics and Analysis of Quantitative Traits:

2 of 2 people found the following review helpful. Great book for anyone interested in genetics: a classic.By Arnaud HulskesGreat book! Clear explanations and good examples. What makes it a really interesting book is that it explains both animal breeding, plant breeding and natural selection in ecological context. So this book has a very broad angle of subjects, but greatly focussed on the common factor: genetical quantitative traits and how to analyse them. The mathematical level might be slightly difficult for not so mathematic orientated people, but most is very well explained and some (parts of) chapters might actually not be misplaced in a mathematics teaching book as well. I have been waiting for such a book and expect it to become a classic. I highly recommend this book!0 of 0 people found the following review helpful. If I had to pick a singe textbook, this'd be it.By Brad FoleyAlong with Falconer and MacKay, this is one of my favourite intro textbooks to quantitative genetics. I use it as a reference frequently. I find it

an easier read than "Introduction to Quantitative Genetics" (this was especially true when I was starting out), and a little more comprehensive.1 of 1 people found the following review helpful. Infomative bookBy editusThis book is an excellent resource in the field of genetics, a classic in the area of quantitative trait analysis. Beware, however, that it is a bit dated. The field has moved a lot in the last 10 years.

With the emerging recognition that the expression of most characters is influenced by multiple genes and multiple environmental factors, quantitative genetics has become the central paradigm for the analysis of phenotypic variation and evolution.Genetics and Analysis of Quantitative Traits brings together the diverse array of theoretical and empirical applications of quantitative genetics under one cover, in a way that is both comprehensive and accessible to anyone with a rudimentary understanding of statistics and genetics. What was originally envisioned as a single text has now become two, with the focus of this first book being on the basic biology and methods of analysis of quantitative characters. Three major features of Genetics and Analysis of Quantitative Traits distinguish it from earlier work. First, it reflects the explosive influx over the past few years of quantitative-genetic thinking into evolutionary biology. Second, in animal breeding, enormous strides have been made in the development of new techniques for estimating breeding values (for the purposes of identifying elite individuals in selection programs) and for estimating variance components from samples of complex pedigrees. In this text's last two chapters, the authors outline the basic principles of complex pedigree analysis, without getting bogged down in technical details. Third, Genetics and Analysis of Quantitative Traits provides a broad overview of the newly emerging array of techniques for quantitative-trait loci (QTL) analysis, currently one of the most active fields of quantitative-genetic research.Genetics and Analysis of Quantitative Traits contains numerous fully-worked examples and illustrations of theoretical concepts, as well as over 2,000 references with indices by subject, author, and organism. In addition, the authors maintain a World Wide Web site featuring up-to-date lists of computer programs and on-line resources, and added information on various topics presented in the text.

"I have nothing but the highest praise for this book, which will surely stand as the definitive treatment for many years to come. The content is comprehensive, the writing clear and concise, and the overall impression is of a masterly tour de force." --Warren J. Ewens, American Journal of Human Biology"This important and useful book will have a permanent place on my desktop. Not only is this an essential reference book, but it is also an excellent textbook." --Christopher J. Basten, Theoretical Population Biology"Conclusively, this book is to be highly recommended for anyone interested in a closer and clearer look at nature's most valuable beauty--its genetic variability." --Elias Anastassopoulos, Economic BotanyAbout the AuthorMichael Lynch is Distinguished Professor of Biology at Indiana University.Bruce Walsh is a Professor in the Department of Ecology and Evolutionary Biology at the University of Arizona.