



QUANTITATIVE GENETICS IN THE WILD



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Quantitative Genetics In The Wild

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Quantitative Genetics In The Wild:

Quantitative Genetics in the Wild Anne Charmantier, Dany Garant, Loeske E. B. Kruuk, 2014-04-03 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 **Adaptive Genetic**

Variation in the Wild Timothy A. Mousseau, Barry Sinervo, John A. Endler, 2000-01-13 Two of the great mysteries of biology yet to be explored concern the distribution and abundance of genetic variation in natural populations and the genetic architecture of complex traits These are tied together by their relationship to natural selection and evolutionary history and some of the keys to disclosing these secrets lie in the study of wild organisms in their natural environments This book featuring a superb selection of papers from leading authors summarizes the state of current understanding about the extent of genetic variation within wild populations and the ways to monitor such variation It proposes the idea that a fundamental objective of evolutionary ecology is necessary to predict organism population community and ecosystem response to environmental change In fact the overall theme of the papers centers around the expression of genetic variation and how it is shaped by the action of natural selection in the natural environment Patterns of adaptation in the past and the genetic basis of traits likely to be under selection in a dynamically changing environment is discussed along with a wide variety of techniques to test for genetic variation and its consequences ranging from classical demography to the use of molecular markers This book is perfect for professionals and graduate students in genetics biology ecology conservation biology and

evolution *Encyclopedia of Evolutionary Biology* ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process *Masterminding Nature* Margaret E. Derry,2015-01-01 Canadian historian Margaret Derry examines the evolution of modern animal breeding from the invention of improved breeding methods in 18th century England to the application of molecular genetics in the 1980s and 1990s *The Nature of Intelligence* Gregory R. Bock,Jamie A. Goode,Kate Webb,2003-10-31 Evolutionary psychology and behavioural genetics are two successful and important fields in the study of human behaviour but practitioners in these subjects have different conceptions of the nature of human intelligence Evolutionary psychologists dispute the existence of general intelligence and emphasise the differences among species They argue that natural and sexual selection would be expected to produce intelligences that are specialised for particular domains as encountered by particular species Behavioural geneticists consider general intelligence to be the most fundamental aspect of intelligence and concentrate on the differences between individuals of the same species This exciting book features papers and discussion contributions from leading behavioural geneticists evolutionary psychologists and experts on intelligence that explore the differences and the tensions between these two approaches The nature of g or general intelligence is discussed in detail as is the issue of the heritability of intelligence The alternative approaches that emphasise domain specific intelligences are explored alongside wide ranging discussions on a broad range of issues such as the biological basis for intelligence animal models and changes in IQ scores over time **Conservation and the Genetics of Populations** Fred W. Allendorf,Gordon H. Luikart,Sally N. Aitken,2012-12-17 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 www.wiley.com/go/allendorf populations PLANT BREEDING METHODS RAM, MAHABAL, 2014-10-01 This comprehensive book provides a detailed account of the plant breeding methodology covering particularly pre and post Green Revolution era It elaborates on plant breeding and gene manipulation utilization of self incompatibility in developing hybrids different plant breeding methods for development of crop varieties and hybrids in self and cross pollinated crops nature of gene action and genotype environment interaction The text discusses gene manipulation in the crop plant and transfer of genes from wild species to cultivated crops application of biotechnology in plant breeding and genetic engineering and transgenic molecular markers as breeding tools and their limitations It concludes with a discussion on physiologic breeding approach and new plant ideotype concepts which are new and emerging areas of interest in plant breeding research The book will be of immense use to undergraduate and postgraduate students of Agricultural Sciences and Botany for their course study Besides research scholars and professionals will also find the book as an excellent source of reference Encyclopedia of Animal Behavior, 2019-01-21 Encyclopedia of Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition Updated sections include Host parasite interactions Vertebrate social behavior and the introduction of overview essays that boost the book's comprehensive detail The structure for the work is modified to accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding

Molecular Pharmacognosy Lu-qi Huang, 2012-10-23 *Molecular Pharmacognosy* discusses the application of molecular

biology in resource science and authentication of traditional Chinese medicine TCM This book reviews the latest developments in pharmacognosy introduces a series of new views and insights presents the hotspots and focus of the field of study on molecular pharmacognosy and predicts a new direction of study on the resource science of TCM Furthermore the book also provides an open communications platform for the development of molecular pharmacognosy This book is intended for biomedical scientists and researchers in the fields of molecular biology traditional medicine and natural pharmaceuticals Professor Lu qi Huang is Director of the Collaborating Centre of the World Health Organization for Traditional Medicine Chinese Materia Medica and Vice Chairman of the Australia Chinese Association for Biomedical Sciences Inc The Biology of Genetic Dominance Reiner A. Veitia, 2006-01-01 The word dominance in the context of genetics has been used for a long time applied to characters or to alleles A dominant character masks the expression of an alternative form This loose definition would even apply when these alternatives are not determined by alleles of the same locus In turn a dominant allele refers to an alternative ver

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