

The application of quantitative genetics (the analysis of the genetic basis of complex traits) to the study of evolutionary processes in wild populations has expanded greatly in the last decade. It has provided insights into a range of important questions in evolutionary ecology—some in well-established fields such as life-history theory, behavioural ecology, and sexual selection, others addressing relatively new issues such as populations' responses to climate change or the process of senescence in natural environments. Across all these fields, there is an 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. Recent research activity in the wild has been jointly fuelled by methodological advances in both molecular genetics and statistical computation, new results from laboratory studies of evolutionary quantitative genetics, and the increasing availability of suitable long-term datasets collected in natural populations, especially in animals. An authoritative and current synthesis of the exciting results arising from this rapidly expanding field of research is now timely.

Quantitative Genetics in the Wild is an advanced textbook containing contributions from leading experts, suitable for graduate level students and professional researchers in the fields of evolution, ecology, genetics, and behavioural ecology. It will also be of relevance and use to wildlife managers and conservation biologists.



9780199674244 生物科学



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OXFORD
UNIVERSITY PRESS

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ISBN 978-0-19-967424-4



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