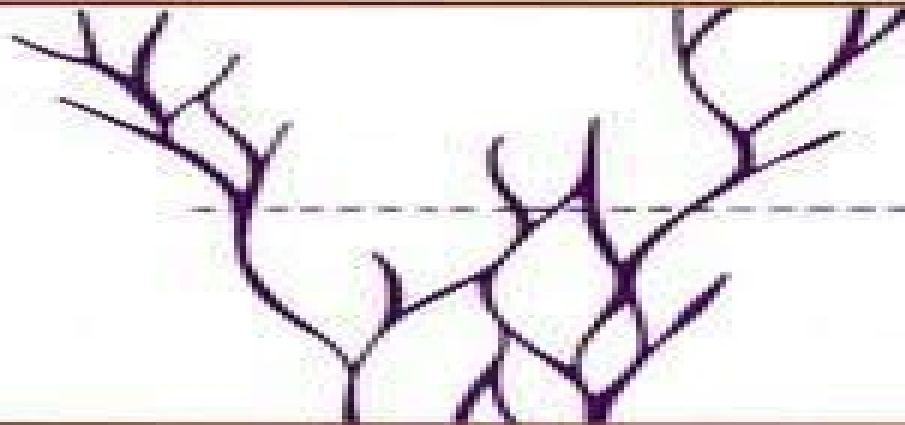


# Natural Selection

**Domains, Levels,  
and Challenges**

George C. Williams



# Natural Selection Domains Levels And Challenges

**Ciprian Jeler**



## **Natural Selection Domains Levels And Challenges:**

**Natural Selection**, 1992 In this work George C Williams one of evolutionary biology's most distinguished scholars examines the mechanisms and meaning of natural selection in evolution Williams offers his own perspective on modern evolutionary theory including discussions of the gene as the unit of selection clade selection and macroevolution diversity within and among populations stasis and other timely and provocative topics In dealing with the levels of selection controversy he urges a pervasive form of the replicator vehicle distinction Natural selection he argues takes place in the separate domains *Natural Selection* George Christopher Williams, 1992 *Evolution and the Levels of Selection* Samir Okasha, 2006-11-16 Does natural selection act primarily on individual organisms on groups on genes or on whole species The question of levels of selection on which biologists and philosophers have long disagreed is central to evolutionary theory and to the philosophy of biology Samir Okasha's comprehensive analysis gives a clear account of the philosophical issues at stake in the current debate **Natural Selection** Richard G. Delisle, 2021-02-27 This book contests the general view that natural selection constitutes the explanatory core of evolutionary biology It invites the reader to consider an alternative view which favors a more complete and multidimensional interpretation It is common to present the 1930-1960 period as characterized by the rise of the Modern Synthesis an event structured around two main explanatory commitments 1 Gradual evolution is explained by small genetic changes variations oriented by natural selection a process leading to adaptation 2 Evolutionary trends and speciation events are macroevolutionary phenomena that can be accounted for solely in terms of the extension of processes and mechanisms occurring at the previous microevolutionary level On this view natural selection holds a central explanatory role in evolutionary theory one that presumably reaches back to Charles Darwin's *Origin of Species* a view also accompanied by the belief that the field of evolutionary biology is organized around a profound divide theories relying on strong selective factors and those appealing only to weak ones If one reads the new analyses presented in this volume by biologists historians and philosophers this divide seems to be collapsing at a rapid pace opening an era dedicated to the search for a new paradigm for the development of evolutionary biology Contrary to popular belief scholars' position on natural selection is not in itself a significant discriminatory factor between most evolutionists In fact the intellectual space is quite limited if not nonexistent between on the one hand Darwinists who play down the central role of natural selection in evolutionary explanations and on the other hand non-Darwinists who use it in a list of other evolutionary mechanisms The mechanism-centered approach to evolutionary biology is too incomplete to fully make sense of its development In this book the labels created under the traditional historiography Darwinian Revolution Eclipse of Darwinism Modern Synthesis Post-Synthetic Developments are thus re-evaluated This book will not only appeal to researchers working in evolutionary biology but also to historians and philosophers *Multilevel Selection and the Theory of Evolution* Ciprian Jeler, 2018-06-07 This book puts multilevel selection theory into a much needed historical perspective This is achieved by discussing multilevel

selection in the first half of the twentieth century the reasons for the energetic rejection of Wynne Edwards group selectionist stance in the 1960s Elisabeth Lloyd s contribution to the units of selection debate Price s hierarchical equation and its possible interpretations and finally species selection in macroevolutionary contexts Another idea also seems to emerge from these studies namely that perhaps a more sure footed position for multilevel selection theory would be acquired if we were to show a renewed interest in old group selection i e in scenarios in which the differential reproduction of the groups themselves affects the frequencies of either individual level or group level traits This book will be of interest to philosophers and historians of biology as well as to theoretically inclined biologists who have an interest in multilevel selection theory

*Adaptation and Natural Selection* George Christopher Williams, 2018-10-30 Biological evolution is a fact but the many conflicting theories of evolution remain controversial even today When *Adaptation and Natural Selection* was first published in 1966 it struck a powerful blow against those who argued for the concept of group selection the idea that evolution acts to select entire species rather than individuals Williams s famous work in favor of simple Darwinism over group selection has become a classic of science literature valued for its thorough and convincing argument and its relevance to many fields outside of biology Now with a new foreword by Richard Dawkins *Adaptation and Natural Selection* is an essential text for understanding the nature of scientific debate

**Darwinian Populations and Natural Selection** Peter Godfrey-Smith, 2009-03-26 In 1859 Darwin described a deceptively simple mechanism that he called natural selection a combination of variation inheritance and reproductive success He argued that this mechanism was the key to explaining the most puzzling features of the natural world and science and philosophy were changed forever as a result The exact nature of the Darwinian process has been controversial ever since however Godfrey Smith draws on new developments in biology philosophy of science and other fields to give a new analysis and extension of Darwin s idea The central concept used is that of a Darwinian population a collection of things with the capacity to undergo change by natural selection From this starting point new analyses of the role of genes in evolution the application of Darwinian ideas to cultural change and evolutionary transitions that produce complex organisms and societies are developed *Darwinian Populations and Natural Selection* will be essential reading for anyone interested in evolutionary theory

**Social Evolution in Ants** Andrew F.G. Bourke, Nigel R. Franks, 2019-12-31 Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain In this important new book Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology One of the substantial contributions of *Social Evolution in Ants* is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects Working to dispel lingering skepticism about the validity of

kin selection and more broadly of selfish gene theory Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies In addition using simple algebra they provide detailed explanations of key mathematical models Finally the authors discuss two relatively little known topics in ant social biology life history strategy and mating systems This comprehensive up to date and well referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology behavioral ecology and evolution Thinking about

Evolution Rama S. Singh, 2001 Originally published in 2001 this is the second of two volumes published by Cambridge University Press in honour of Richard Lewontin This second volume of essays honours the philosophical historical and political dimensions of his work It is fitting that the volume covers such a wide range of perspectives on modern biology given the range of Lewontin's own contributions He is not just a very successful practitioner of evolutionary genetics but a rigorous critic of the practices of genetics and evolutionary biology and an articulate analyst of the social political and economic contexts and consequences of genetic and evolutionary research The volume begins with an essay by Lewontin on Natural History and Formalism in Evolutionary Genetics and includes contributions by former students post docs colleagues and collaborators which cover issues ranging from the history and conceptual foundations of evolutionary biology and genetics to the implications of human genetic diversity **Units of Selection** Javier Suárez, Elisabeth A. Lloyd, 2023-09-21

This Element introduces the Disambiguating Project DP about the units of selection By DP the authors mean the thesis that the expression units of selection refers to at least three non co extensional functional concepts interactor replicator reproducer reconstitutor and manifestor of adaptation type 1 agent They present each concept and demonstrate the necessity of their isolation because each of them responds to a distinct question about the units of selection and these distinct questions are not always posed in combination in today's biological research They further apply the framework to the analysis of the debates concerning the Evolutionary Transitions in Individuality ETI and argue that the DP interprets the ETI better than any project rejecting the three meanings of units of selection Thus they claim that the differentiation between at least these three functional concepts is fundamental to clarify some conceptual confusions in biology which rest on the conflation of these distinct meanings

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