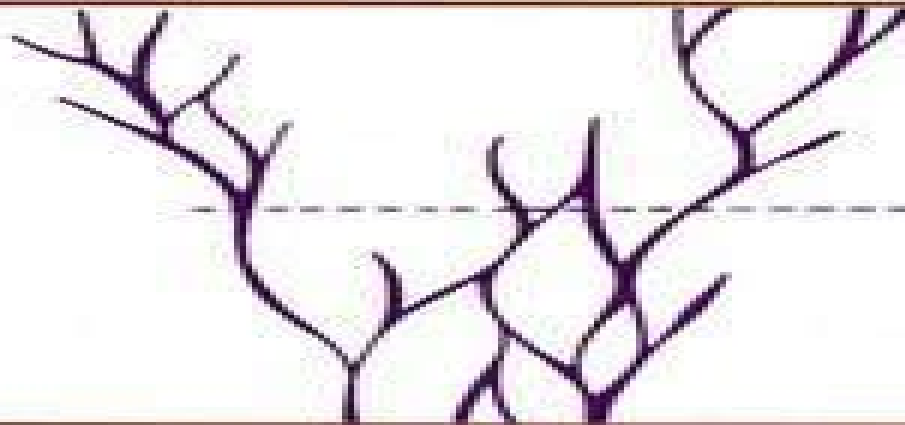


Natural Selection

**Domains, Levels,
and Challenges**

George C. Williams



Natural Selection Domains Levels And Challenges

Kim Sterelny, Paul E. Griffiths



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 Samir Okasha provides a comprehensive analysis of the debate in evolutionary biology over the levels of selection focusing on conceptual philosophical and foundational questions A systematic framework is developed for thinking about natural selection acting at multiple levels of the biological hierarchy the framework is then used to help resolve outstanding issues Considerable attention is paid to the concept of causality as it relates to the levels of selection in particular the idea that natural selection at one hierarchical level can have effects that filter up or down to other levels Unlike previous work in this area by philosophers of science full account is taken of the recent biological literature on major evolutionary transitions and the recent resurgence of interest in multi level selection theory among biologists Other biological topics discussed include Price's equation kin and group selection the gene's eye view evolutionary game theory outlaws and selfish genetic elements species and clade selection and the evolution of individuality Philosophical topics discussed include reductionism and holism causation and correlation the nature of hierarchical organization and realism and pluralism *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

Social Evolution and Inclusive Fitness Theory James A.R. Marshall, 2019-01-08 Social behavior has long puzzled evolutionary biologists since the classical theory of natural selection maintains that individuals should not sacrifice their own fitness to affect that of others Social Evolution and Inclusive Fitness Theory argues that a theory first presented in 1963 by William D Hamilton inclusive fitness theory provides the most fundamental and

general explanation for the evolution and maintenance of social behavior in the natural world James Marshall guides readers through the vast and confusing literature on the evolution of social behavior introducing and explaining the competing theories that claim to provide answers to questions such as why animals evolve to behave altruistically Using simple statistical language and techniques that practicing biologists will be familiar with he provides a comprehensive yet easily understandable treatment of key concepts and their repeated misinterpretations Particular attention is paid to how more realistic features of behavior such as nonadditivity and conditionality can complicate analysis Marshall highlights the general problem of identifying the underlying causes of evolutionary change and proposes fruitful approaches to doing so in the study of social evolution Social Evolution and Inclusive Fitness Theory describes how inclusive fitness theory addresses both simple and complex social scenarios the controversies surrounding the theory and how experimental work supports the theory as the most powerful explanation for social behavior and its evolution

Nonadaptive Selection John Damuth, Lev R. Ginzburg, 2025-07-10 The first comprehensive explanation of a widely applicable but underappreciated mechanism of evolution operating at higher levels of organization than the individual In this important treatise ecologists and evolutionary biologists John Damuth and Lev R Ginzburg identify a specific evolutionary process in biology which they call nonadaptive selection The idea is simple but the implications are profound Nonadaptive selection as they use the term is selection among biological entities as is natural selection but is based on the fitness effects of structural properties intrinsic to the entities under selection rather than on interactions between traits and a local shared environment In other words features of systems that evolve by nonadaptive selection do not adapt to local environmental conditions rather this selective process increases the long term stability of the focal systems independent of local conditions Nonadaptive selection may be of particular value in explaining broad persistent patterns in multispecies biological units where adaptive evolution may be weak or poorly defined Examples include Damuth's Law the equivalence of energy use among animal species across a wide range of body sizes the ratio dependent or Arditi Ginzburg predation conjecture the consistency of allometric scaling powers the shortness of trophic chains and the prevalence of certain types of three species trophic structures across ecosystems Damuth and Ginzburg see nonadaptive selection underlying patterns of ecological allometries community structure and species interactions with some implications for macroevolution Moreover they find a surprising relationship between these nonadaptive processes and biological laws They do not advocate the reorientation of any existing research programs but present nonadaptive selection as an additional conceptual framework that may be useful to add to ecology and evolution

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

Science and Selection David L. Hull, 2001 One way to understand science is as a selection process David Hull one of the dominant figures in contemporary philosophy of science sets out in this 2001 volume a general analysis of this selection process that applies equally to biological evolution the reaction of the immune system to antigens operant learning and social and conceptual change in science Hull aims to distinguish between those characteristics that are contingent features of selection and those that are essential Science and Selection brings together many of David Hull's most important essays on selection some never before published in one accessible volume

The Structure of Evolutionary Theory Stephen Jay Gould, 2002-03-21 The world's most revered and eloquent interpreter of evolutionary ideas offers here a work of explanatory force unprecedented in our time a landmark publication both for its historical sweep and for its scientific vision With characteristic attention to detail Stephen Jay Gould first describes the content and discusses the history and origins of the three core commitments of classical Darwinism that natural selection works on organisms not genes or species that it is almost exclusively the mechanism of adaptive evolutionary change and that these changes are incremental not drastic Next he examines the three critiques that currently challenge this classic Darwinian edifice that selection operates on multiple levels from the gene to the group that evolution proceeds by a variety of mechanisms not just natural selection and that causes operating at broader scales including catastrophes have figured prominently in the course of evolution Then in a stunning tour de force that will likely stimulate discussion and debate for decades Gould proposes his own system for integrating these classical commitments and contemporary critiques into a new structure of evolutionary thought In 2001 the Library of Congress named Stephen Jay Gould one of America's eighty three Living Legends people who embody the quintessentially American ideal of individual creativity conviction dedication and exuberance Each of these qualities finds full expression in this peerless work the likes of which the scientific world has not seen and may not see again for well over a century

Tempo and Mode in Evolution for the National Academy of Sciences, 1995-02-26 Since George Gaylord Simpson published Tempo and Mode in Evolution in 1944 discoveries in paleontology and genetics have abounded This volume brings together the findings and insights of today's leading experts in the study of evolution including Ayala W Ford Doolittle and Stephen Jay Gould The volume examines early cellular evolution explores changes in the tempo of evolution between the Precambrian and Phanerozoic periods and reconstructs the Cambrian evolutionary burst Long neglected despite Darwin's interest in it species extinction is discussed in detail Although the absence of data kept Simpson from exploring human evolution in his book the current volume covers

morphological and genetic changes in human populations contradicting the popular claim that all modern humans descend from a single woman This book discusses the role of molecular clocks the results of evolution in 12 populations of *Escherichia coli* propagated for 10 000 generations a physical map of *Drosophila* chromosomes and evidence for hitchhiking by mutations

Physical Attractiveness and the Theory of Sexual Selection Doug Jones,1996-01-01 In this fascinating study of five populations author Doug Jones explores the possibility that hardwired into the human psyche are standards of beauty that are really preferences and signals for good health *Palaeobiology II* Derek E. G. Briggs,Peter R. Crowther,2008-04-15 *Palaeobiology A Synthesis* was widely acclaimed both for its content and production quality Ten years on Derek Briggs and Peter Crowther have once again brought together over 150 leading authorities from around the world to produce *Palaeobiology II* Using the same successful formula the content is arranged as a series of concise articles taking a thematic approach to the subject rather than treating the various fossil groups systematically This entirely new book with its diversity of new topics and over 100 new contributors reflects the exciting developments in the field including accounts of spectacular newly discovered fossils and embraces data from other disciplines such as astrobiology geochemistry and genetics *Palaeobiology II* will be an invaluable resource not only for palaeontologists but also for students and researchers in other branches of the earth and life sciences Written by an international team of recognised authorities in the field Content is concise but informative Demonstrates how palaeobiological studies are at the heart of a range of scientific themes

George C. Williams and Evolutionary Literacy Michael P. Cohen,2022-09-28 In this book a case study of a humanistic reading of an essential evolutionary theorist George C Williams May 12 1926 September 8 2010 the author contends that certain classic works of evolutionary theory and history are the most important nature writing of recent times What it means to be scientifically literate is essential for humanistic scholars who must ground themselves with literary reading of scientific texts As the most influential American evolutionary theorist of the second half of the twentieth century Williams masters critique frames questions about adaptation and natural selection and answers in a plain aphoristic writing style Williams aims for parsimony to recognize adaptation at the level necessitated by the facts and no higher through a minimalist writing style This voice articulates a powerful process that operates at very low levels by blind and selfish chance at the expense of its designed products using purely trial and error *Evolutionary Psychology* Neil Levy,2017-03-02 Evolutionary approaches to the study of human beings have been able to explain the origin and maintenance of many of the features of our bodies Many thinkers believe that an evolutionary approach will be equally fruitful when it comes to explaining the features of our minds Since our behaviour is driven by our minds our cognitive dispositions and processes are likely to have been a target of selection and adaptation This volume collects recent prominent explorations of this theme as well as the voices of dissenters who argue that our minds are far more significantly the product of culture than of evolution **Sex and Death** Kim Sterelny,Paul E. Griffiths,2024-05-31 Is the history of life a series of accidents or a drama scripted by selfish genes Is there

an essential human nature determined at birth or in a distant evolutionary past What should we conserve species ecosystems or something else Informed answers to questions like these critical to our understanding of ourselves and the world around us require both a knowledge of biology and a philosophical framework within which to make sense of its findings In this accessible introduction to philosophy of biology Kim Sterelny and Paul E Griffiths present both the science and the philosophical context necessary for a critical understanding of the most exciting debates shaping biology today The authors both of whom have published extensively in this field describe the range of competing views including their own on these fascinating topics With its clear explanations of both biological and philosophical concepts Sex and Death will appeal not only to undergraduates but also to the many general readers eager to think critically about the science of life Complexity and Dynamics ,2017 *Evolution* ,

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