

# Nature of Selection: Evolutionary Theory in Philosophical Focus (A Bradford book)

Sober, Elliott

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# Nature Of Selection Evolutionary Theory In Philosophical Focus The

**Stephen P. Turner, Paul A. Roth**



## **Nature Of Selection Evolutionary Theory In Philosophical Focus The:**

**The Nature of Selection** Elliott Sober, 1993-08-15 The Nature of Selection is a straightforward self contained introduction to philosophical and biological problems in evolutionary theory It presents a powerful analysis of the evolutionary concepts of natural selection fitness and adaptation and clarifies controversial issues concerning altruism group selection and the idea that organisms are survival machines built for the good of the genes that inhabit them Sober's is the answering philosophical voice the voice of a first rate philosopher and a knowledgeable student of contemporary evolutionary theory His book merits broad attention among both communities It should also inspire others to continue the conversation Philip Kitcher Nature Elliott Sober has made extraordinarily important contributions to our understanding of biological problems in evolutionary biology and causality The Nature of Selection is a major contribution to understanding epistemological problems in evolutionary theory I predict that it will have a long lasting place in the literature Richard C Lewontin     The Nature of Selection Elliott Sober, 1984-01-01 The Nature of Selection provides a straightforward and self contained introduction to philosophical and biological problems in evolutionary theory     *Evidence and Evolution* Elliott Sober, 2008-03-27 How should the concept of evidence be understood And how does the concept of evidence apply to the controversy about creationism as well as to work in evolutionary biology about natural selection and common ancestry In this rich and wide ranging book Elliott Sober investigates general questions about probability and evidence and shows how the answers he develops to those questions apply to the specifics of evolutionary biology Drawing on a set of fascinating examples he analyzes whether claims about intelligent design are untestable whether they are discredited by the fact that many adaptations are imperfect how evidence bears on whether present species trace back to common ancestors how hypotheses about natural selection can be tested and many other issues His book will interest all readers who want to understand philosophical questions about evidence and evolution as they arise both in Darwin's work and in contemporary biological research     *Philosophy Of Biology* Elliott Sober, 2000-01-12 A guide to some of the developments that have occurred in the philosophy of biology Covering such issues as evolutionary theory creationism teleology nature versus nurture and sociobiology this book provides an overview of the current state of play in this rapidly changing discipline     *On Sexual Reproduction as a New Critique of the Theory of Natural Selection* Joris van Rossum, 2014-01-01 Darwinism is one of the most successful scientific theories and its validity is largely unquestioned within the scientific community Most criticism comes from creationist streams of thought and primarily focuses on aspects of improbability such as on the alleged improbability of the origin of life or of accidental mutations and natural selection yielding the astonishing complexity of living beings In this work a new criticism of the theory of natural selection is introduced Its aim is to show that a salient characteristic of living beings sexual reproduction defies Darwinism and not based on an improbability but on an impossibility of explanation Moreover it is a critique that does not endorse creationism but demands that the discussion

about the explanation of organic phenomena should be held in a much broader philosophical context **EVOLUTION**

Michael Ruse, Joseph Travis, 2009-01-01 Spanning evolutionary science from its inception to its latest findings from discoveries and data to philosophy and history this book is the most complete authoritative and inviting one volume introduction to evolutionary biology available Clear informative and comprehensive in scope Evolution opens with a series of major essays dealing with the history and philosophy of evolutionary biology with major empirical and theoretical questions in the science from speciation to adaptation from paleontology to evolutionary development evo devo and concluding with essays on the social and political significance of evolutionary biology today A second encyclopedic section travels the spectrum of topics in evolution with concise informative and accessible entries on individuals from Aristotle and Linneaus to Louis Leakey and Jean Lamarck from T H Huxley and E O Wilson to Joseph Felsenstein and Motoo Kimura and on subjects from altruism and amphibians to evolutionary psychology and Piltdown Man to the Scopes trial and social Darwinism Readers will find the latest word on the history and philosophy of evolution the nuances of the science itself and the intricate interplay among evolutionary study religion philosophy and society Appearing at the beginning of the Darwin Year of 2009 the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of the Origin of Species this volume is a fitting tribute to the science Darwin set in motion **The Blackwell Guide to the Philosophy of the Social Sciences**

Stephen P. Turner, Paul A. Roth, 2008-06-09 The Blackwell Guide to the Philosophy of the Social Sciences collects newly commissioned essays that examine fundamental issues in the social sciences **The Blackwell Guide to the Philosophy of Science** Peter Machamer, Michael Silberstein, 2008-04-15 This volume presents a definitive introduction to the core areas of philosophy of science *History of Psychiatry and Medical Psychology* Edwin R. Wallace, John Gach, 2010-04-13 Most of the prefatory issues are extensively elaborated upon in the Prolegomenon which also contains the complete references to the texts and authors discussed below Nevertheless the Preface would be grossly incomplete without touching on some of these issues books and scholars Too many of this book's chapters e.g. Mora's Marx's D B Weiner's examine and reference important earlier as well as contemporary general histories of psychiatry and specialized monographs in German French Italian and Spanish Also in his 1968 Short History of Psychiatry discussed below Ackerknecht pp xi xii references important nineteenth and earlier twentieth century psychiatric histories in English French and German Such citations will of course not be repeated here Finally thanks to several publishers re editions of dozens of classical psychiatric texts one can consult their bibliographies as well See Prolegomenon for references to these splendid series In a rough and ready sense medical history began in classical Greece for example On Ancient Medicine While traditionally included in the Hippocratic corpus this text seems more likely to have been written by a non or even anti Hippocratic doctor Moreover the Hippocratic and other schools were hardly as secular as we now suppose On Epilepsy for example does not so much declare the prevalent denotation of it as the sacred disease erroneous as it does that it is no more nor less sacred than any other disease **Perspectives in**

**Ethology** Nicholas S. Thompson, François Tonneau, 2013-06-29 The relations between behavior evolution and culture have been a subject of vigorous debate since the publication of Darwin's *The Descent of Man* 1871 The latest volume of *Perspectives in Ethology* brings anthropologists, ethologists, psychologists and evolutionary theorists together to reexamine this important relation With two exceptions the essays by Brown and Eldredge all of the present essays were originally presented at the Fifth Biannual Symposium on the Science of Behavior held in Guadalajara Mexico in February 1998 The volume opens with the problem of the origins of culture tackled from two different viewpoints by Richerson and Boyd and Lancaster Kaplan Hill and Hurtado respectively Richerson and Boyd analyze the possible relations between climatic change in the Pleistocene and the evolution of social learning evaluating the boundary conditions under which social learning could increase fitness and contribute to culture Lancaster Kaplan Hill and Hurtado examine how a shift in the diet of the genus *Homo* toward difficult to acquire food could have determined or coevolved with unique features of the human life cycle These two essays illustrate how techniques that range from computer modeling to comparative behavioral analysis and that make use of a wide range of data can be used for drawing inferences about past selection pressures As culture evolves it must somehow find its place within and also affect a complex hierarchy of behavioral and biological factors

*The Role of Behavior in Evolution* Henry C. Plotkin, 1988 These six original essays focus on a potentially important aspect of evolutionary biology the possible causal role of phenotypic behavior in evolution Balancing theory with actual or potential empiricism they provide the first full examination of this topic Plotkin's opening chapter outlines the conceptual minefields that the contributors attempt to negotiate What is an adequate theory of evolution What is behavior and is it possible to maintain a distinction between behavior and other attributes of the phenotype is all or only a special subset of behavior both a cause and a consequence of evolution And what do the theoretical issues mean in empirical terms He concludes that any attempt to understand the causal role of behavior in evolution requires a more complicated theoretical structure than that of orthodox neoDarwinism a conceptualization of behavior as a distinctive set of phenotypic attributes and the accumulation of more data David L Hull Northwestern University provides an alternative account of the evolutionary process by developing a hierarchy of replicators interactors lineages to replace the traditional one of genes organisms species Robert N Brandon Duke University also posits hierarchy as an appropriate architecture for the theoretical complexity needed to support an examination of the role of behavior in evolution F J Odling Smee Brunel University outlines a theoretical structure to encompass the behavior of phenotypes concentrating on the unrestricted definition of behavior everything that an animal does The remaining chapters are as much concerned with evidence as with theory Plotkin concentrates on a restricted definition of behavior behavior that is a product of choosing intelligence reviewing our empirical knowledge of how learning might influence evolution R I M Dunbar University College London uses empirical studies of vertebrate social behavior to deal with the question of how the social systems especially of primates might have a causal role in species evolution A

Bradford Book     *The Origin and Evolution of Cultures* Robert Boyd, Peter J. Richerson, 2005-01-20 Oxford presents in one convenient and coherently organized volume 20 influential but until now relatively inaccessible articles that form the backbone of Boyd and Richerson's path breaking work on evolution and culture Their interdisciplinary research is based on two notions First that culture is crucial for understanding human behavior unlike other organisms socially transmitted beliefs attitudes and values heavily influence our behavior Secondly culture is part of biology the capacity to acquire and transmit culture is a derived component of human psychology and the contents of culture are deeply intertwined with our biology Culture then is a pool of information stored in the brains of the population that gets transmitted from one brain to another by social learning processes Therefore culture can account for both our outstanding ecological success as well as the maladaptations that characterize much of human behavior The interest in this collection will span anthropology psychology economics philosophy and political science     *The Origin and Evolution of Cultures* Los Angeles Robert Boyd Professor of Anthropology University of California, Davis Peter J. Richerson Professor of Environmental Science and Policy University of California, 2004-12-22 Oxford presents in one convenient and coherently organized volume 20 influential but until now relatively inaccessible articles that form the backbone of Boyd and Richerson's path breaking work on evolution and culture Their interdisciplinary research is based on two notions First that culture is crucial for understanding human behavior unlike other organisms socially transmitted beliefs attitudes and values heavily influence our behavior Secondly culture is part of biology the capacity to acquire and transmit culture is a derived component of human psychology and the contents of culture are deeply intertwined with our biology Culture then is a pool of information stored in the brains of the population that gets transmitted from one brain to another by social learning processes Therefore culture can account for both our outstanding ecological success as well as the maladaptations that characterize much of human behavior The interest in this collection will span anthropology psychology economics philosophy and political science     **Darwin** Tim Lewens, 2006-11-22 Charles Darwin 1809-1882 is best known as a biologist and natural historian rather than a philosopher However in this invaluable book Tim Lewens shows in a clear and accessible manner how important Darwin is for philosophy and how his work has shaped and challenged the very nature of the subject     Defending Life Elling Ulvestad, 2007-05-11 *Defending Life* discusses the relationship between hosts and parasites It contains detailed descriptions of the immune system and the microbial world as well as methodological and conceptual clarifications Its emphasis on analytical abstractions coherent patterns and generative mechanisms makes possible the distinction between genuine causality and coincidental associations and increases the understanding of why we observe what we observe     *Issues in Evolutionary Ethics* Paul Thompson, 1995-01-13 This book explores historical and current discussions of the relevance of evolutionary theory to ethics The historical section conveys the intellectual struggle that took place within the framework of Darwinism from its inception up to the work of G C Williams W D Hamilton R D Alexander A L Trivers E O Wilson R Dawkins and others The contemporary section discusses

ethics within the framework of evolutionary theory as enriched by the works of biologists such as those mentioned above The issue of whether ethical practice and ethical theory can be grounded in the theory of evolution has taken a new and significant direction within the context of sociobiology and is proving to be a challenge to previous thinking This book conveys that challenge

**Origin and Evolution of the Universe** Royal Society of Canada, Canadian Institute for Advanced Research, 1987 Does the universe have the character it has because of design In this collection of essays first presented at a symposium sponsored by the Canadian Institute for Advanced Research and the Royal Society of Canada seventeen scientists and philosophers re examine the Argument by Design in light of current scientific theories Scientists in such diverse fields as cosmology physics geology biology and psychology provide syntheses of the state of their respective disciplines with regard to questions such as the origin or evolution of the universe and of life the interaction of life and terrestrial environment and verbal communication in prehumans Contributions by philosophers cover such areas as arguments for a designer and the question of whether nature's laws and initial conditions could be viewed as fine tuned for the production of life Many of the chapters demonstrate the awe inspiring success of modern science in explaining the universe in terms of fairly straightforward natural laws countering those versions of the design argument which try to find evidence of God's activities in the supposed failures of scientific laws to cover various phenomena

**Darwin's Argument by Analogy** Roger M. White, M. J. S. Hodge, Gregory Radick, 2021-11-04 In *On the Origin of Species* 1859 Charles Darwin put forward his theory of natural selection Conventionally Darwin's argument for this theory has been understood as based on an analogy with artificial selection But there has been no consensus on how exactly this analogical argument is supposed to work and some suspicion too that analogical arguments on the whole are embarrassingly weak Drawing on new insights into the history of analogical argumentation from the ancient Greeks onward as well as on in depth studies of Darwin's public and private writings this book offers an original perspective on Darwin's argument restoring to view the intellectual traditions which Darwin took for granted in arguing as he did From this perspective come new appreciations not only of Darwin's argument but of the metaphors based on it the range of wider traditions the argument touched upon and its legacies for science after the Origin

Understanding Evolution Kostas Kampourakis, 2020-09-24 Why is evolution so difficult to understand Uncover the common misconceptions and core concepts in this concise and accessible book

**On Biopolitics** Marco Piasentier, 2020-07-07 In *On Biopolitics* Marco Piasentier discusses one of the most persistent questions in biopolitical theory the divide between nature and language and attempts to redraw the conceptual map which has traditionally defined the permissible paths to address this question Taking his cue from Foucault's exhortation to think philologically and biologically Piasentier traverses the main theoretical and methodological frameworks which have informed the biopolitical debate on nature and language biology and politics Biopolitical theory becomes the center of gravity for an investigation encompassing diverse philosophical models from the Heideggerian linguistic turn to post Darwinian naturalism The divide between

traditions is not proof of an impossible encounter but constitutes the site for a new conceptual topography Working in this interdisciplinary space Piasentier puts into question the command of language and the ends of nature two vestiges of a human all too human worldview that preclude the possibility of thinking philologically and biologically about biopolitics On Biopolitics An Inquiry into Nature and Language is essential reading for humanities and social sciences scholars with an interest in moving beyond debates about nature and language



## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Nature Of Selection Evolutionary Theory In Philosophical Focus The**

In some sort of inundated with screens and the cacophony of instantaneous connection, the profound energy and emotional resonance of verbal beauty frequently diminish into obscurity, eclipsed by the constant onslaught of sound and distractions. Yet, located within the lyrical pages of **Nature Of Selection Evolutionary Theory In Philosophical Focus The**, a captivating work of literary brilliance that pulses with organic thoughts, lies an remarkable journey waiting to be embarked upon. Published by way of a virtuoso wordsmith, that mesmerizing opus instructions readers on an emotional odyssey, gently revealing the latent potential and profound influence embedded within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we can embark upon an introspective exploration of the book is key styles, dissect their captivating publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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