

GENES, ORGANISMS, POPULATIONS

CONTROVERSIES OVER THE UNITS OF SELECTION

EDITED BY

ROBERT N. BRANDON AND RICHARD M. BURIAN

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Genes Organisms Populations Controversies Over The Units Of Selection

Jan Sapp



Genes Organisms Populations Controversies Over The Units Of Selection:

Genes, Organisms, Populations Robert N. Brandon, Richard M. Burian, 1986-01-01 This anthology collects some of the most important papers on what is believed to be the major force in evolution natural selection An issue of great consequence in the philosophy of biology concerns the levels at which and the units upon which selection acts In recent years biologists and philosophers have published a large number of papers bearing on this subject The papers selected for inclusion in this book are divided into three main sections covering the history of the subject explaining its conceptual foundations and focusing on kin and group selection and higher levels of selection One of the book's interesting features is that it draws together material from the biological and philosophical literatures The philosophical literature having thoroughly absorbed the biological material now offers conceptual tools suitable for the reworking of the biological arguments Although a full symbiosis has yet to develop this anthology offers a unique resource for students in both biology and philosophy Robert N. Brandon is Professor in the Philosophy Department Duke University Richard M. Burian is Professor of Philosophy and Department Chairman Virginia Polytechnic Institute and State University A Bradford Book Toward a New Philosophy of Biology Ernst Mayr, 1988 A collection of twenty eight essays five previously unpublished grouped into nine categories Philosophy Natural Selection Adaptation Darwin Diversity Species Speciation Macroevolution and Historical Perspective The book Ernst Mayr notes in the Foreword is an attempt to strengthen the bridge between biology and philosophy and point to the new direction in which a new philosophy of biology will move *The Ant and the Peacock* Helena Cronin, 1991 This book is a success story It explains two long running puzzles of the theory of natural selection How can natural selection favour those like the ant that renounce tooth and claw in favour of the public spirited ways of the commune How can it explain the peacock's tail flamboyant and a burden to its bearer surely selection would act against useless ornamentation Helena Cronin's enthralling account blends history science and philosophy in a gripping tale that is scholarly entertaining and eminently readable The hardback edition was selected by Nature as one of the best scientific books in 1992 Also the New York Times chose it as one of their best books of 1992 The author divides her time between the Philosophy Department at the London School of Economics and the Zoology Department at Oxford **Evolutionary Biology** Max K. Hecht, Bruce Wallace, Ross J. MacIntyre, 2012-12-06 After volume 33 this book series was replaced by the journal Evolutionary Biology Please visit www.springer.com/11692 for further information This latest volume continues the series focus on critical reviews commentaries original papers and controversies in the field of evolutionary biology Not by Design John Reiss, 2009-08-10 More than two centuries ago William Paley introduced his famous metaphor of the universe as a watch made by the Creator For Paley the exquisite structure of the universe necessitated a designer Today some 150 years since Darwin's *On the Origin of Species* was published the argument of design is seeing a revival This provocative work tells how Darwin left the door open for this revival and at the same time argues for a new conceptual framework that avoids the problematic teleology inherent in

Darwin's formulation of natural selection In a wide ranging discussion of the historical and philosophical dimensions of evolutionary theory from the ancient Greeks to today John Reiss argues that we should look to the principle of the conditions for existence first formulated before On the Origin of Species by the French paleontologist Georges Cuvier to clarify the relation of adaptation to evolution Reiss suggests that Cuvier's principle can help resolve persistent issues in evolutionary biology including the proper definition of natural selection the distinction between natural selection and genetic drift and the meaning of genetic load Moreover he shows how this principle can help unite diverse areas of biology ranging from quantitative genetics and the theory of the levels of selection to evo devo ecology physiology and conservation biology

Genesis Jan Sapp, 2003-09-11 *Genesis The Evolution of Biology* presents a history of the past two centuries of biology suitable for use in courses but of interest more broadly to evolutionary biologists geneticists and biomedical scientists as well as general readers interested in the history of science The book covers the early evolutionary biologists Lamarck Cuvier Darwin and Wallace through Mayr and the neodarwinian synthesis in much the same way as other histories of evolution have done bringing in also the social implications the struggles with our religious understanding and the interweaving of genetics into evolutionary theory What is novel about Sapp's account is a real integration of the cytological tradition from Schwann Boveri and the other early cell biologists and embryologists and the coverage of symbiosis microbial evolutionary phylogenies and the new understanding of the diversification of life coming from comparative analyses of complete microbial genomes The book is a history of theories about evolution genes and organisms from Lamarck and Darwin to the present day This is the first book on the general history of evolutionary biology to include the history of research and theories about symbiosis in evolution and first to include research on microbial evolution which were excluded from the classical neo Darwinian synthesis Bacterial evolution and symbiosis in evolution are also excluded from virtually every book on the history of biology

Behavioral Analysis of Societies and Cultural Practices Peter A. Lamal, 1991 Aims to establish a new subdiscipline namely behaviour analysis of societies and cultural practices Included is a discussion of the Soviet Union and Eastern Europe It looks at entire cultures as the units of analysis and is for anyone with a basic knowledge of the principles of behaviour **Too Smart for Our Own Good** Craig Dilworth, 2010 A groundbreaking work explaining our ecological predicament in the context of the first scientific theory of humankind's development *Philosophy of Evolutionary Biology* Stefan Linquist, 2017-03-02 The impact of evolutionary theory on the philosophy of science has been no less profound than its impact on the science of biology itself Advances in this theory provide a rich set of examples for thinking about the nature of scientific explanation and the structure of science Many of the developments in our understanding of evolution resulted from contributions by both philosophers and biologists engaging over theoretical questions of mutual interest This volume traces some of the most influential exchanges in this field over the last few decades Focal topics include the nature of biological functions adaptationism as an explanatory and methodological doctrine the levels of selection debate the concepts of fitness and drift

and the relationship of evolutionary to developmental biology Existential Cognition Ron McClamrock, 1995-03-15 While the notion of the mind as information processor a kind of computational system is widely accepted many scientists and philosophers have assumed that this account of cognition shows that the mind's operations are characterizable independent of their relationship to the external world Existential Cognition challenges the internalist view of mind arguing that intelligence thought and action cannot be understood in isolation but only in interaction with the outside world Arguing that the mind is essentially embedded in the external world Ron McClamrock provides a schema that allows cognitive scientists to address such long standing problems in artificial intelligence as the frame problem and the issue of bounded rationality Extending this schema to cover progress in other studies of behavior including language vision and action McClamrock reinterprets the importance of the organism environment distinction McClamrock also considers the broader philosophical question of the place of mind in the world particularly with regard to questions of intentionality subjectivity and phenomenology With implications for philosophy cognitive and computer science AI and psychology this book synthesizes state of the art work in philosophy and cognitive science on how the mind interacts with the world to produce thoughts ideas and actions *Rationality, Institutions, and Economic Methodology* Uskali Mäki, Bo Gustafsson, Christian Knudsen, 1993 First published in 1993 Routledge is an imprint of Taylor Francis an informa company **The Philosophy of Science: A-M** Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest

Evolution by Association Jan Sapp, 1994-09-15 In this comprehensive history of symbiosis theory the first to be written Jan Sapp masterfully traces its development from modest beginnings in the late nineteenth century to its current status as one of the key conceptual frameworks for the life sciences The symbiotic perspective on evolution which argues that higher species have evolved from a merger of two or more different kinds of organisms living together is now clearly established with definitive molecular evidence demonstrating that mitochondria and chloroplasts have evolved from symbiotic bacteria In telling the exciting story of an evolutionary biology tradition that has effectively challenged many key tenets of classical neo Darwinism Sapp sheds light on the phenomena movements doctrines and controversies that have shaped attitudes about the scope and significance of symbiosis Engaging and insightful Evolution by Association will be avidly read by students and researchers across the life sciences *Adaptation* Michael R. Rose, George V. Lauder, 1996-09-22 The study of evolutionary adaptation returns to the center stage of biology with this important volume This innovative treatise discusses new developments in adaptation with new methods and new theoretical foundations achievements and prospects for a rich intellectual future It is an insightful reintroduction to the themes that Darwin and his successors regarded as central to any

profound understanding of biology **The Structure and Confirmation of Evolutionary Theory** Elisabeth A. Lloyd, 2021-01-12 Traditionally a scientific theory is viewed as based on universal laws of nature that serve as axioms for logical deduction In analyzing the logical structure of evolutionary biology Elisabeth Lloyd argues that the semantic account is more appropriate and powerful This book will be of interest to biologists and philosophers alike *Handbook of Creativity* Robert J. Sternberg, 1999 The goal of the Handbook of Creativity is to provide the most comprehensive definitive and authoritative single volume review available in the field of creativity To this end the book contains 22 chapters covering a wide range of issues and topics in the field of creativity all written by distinguished leaders in the field The chapters have been written to be accessible to all educated readers with an interest in creative thinking Although the authors are leading behavioral scientists people in all disciplines will find the coverage of creativity divided in the arts and sciences to be of interest The volume is divided into six parts Part I the Introduction sets out the major themes and reviews the history of thinking about creativity Subsequent parts deal with methods origins self and environment special topics and conclusions

The Secret Chain Michael Bradie, 1994-12-15 *Illness and Power* Brant Wenegrat, 1996-09 Since ancient times physicians have believed that women are especially vulnerable to certain mental illnesses Contemporary research confirms that women are indeed more susceptible than men to anxiety depression multiple personality and eating disorders and several forms of what used to be called hysteria Why are these disorders more prevalent in women Brant Wenegrat convincingly asserts that women s excess risk stems from a lack of social power He reviews women s social power from an evolutionary and cross cultural perspective and places mental disorders in the context of evolution and societal organization In this comprehensive look at mental disorders commonly associated with women Brant Wenegrat convincingly asserts that women s excess risk stems from a lack of social power **Evolutionary Ecology and Human Behavior** Eric Alden Smith, 2017-09-29 required reading for anyone interested in the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve both as a text 1 4 book and as a scholarly reference American Scientist Discovery and Explanation in Biology and Medicine Kenneth F. Schaffner, 1993 Kenneth F Schaffner compares the practice of biological and medical research and shows how traditional topics in philosophy of science such as the nature of theories and of explanation can illuminate the life sciences While Schaffner pays some attention to the conceptual questions of evolutionary biology his chief focus is on the examples that immunology human genetics neuroscience and internal medicine provide for examinations of the way scientists develop examine test and apply theories Although traditional philosophy of science has regarded scientific discovery the questions of creativity in science as a subject for psychological rather than philosophical study Schaffner argues that recent work in cognitive science and artificial intelligence enables researchers to rationally analyze the nature of discovery As a philosopher of science who holds an M D he has examined biomedical work from the inside and uses detailed examples from the entire range of the life sciences to

support the semantic approach to scientific theories addressing whether there are laws in the life sciences as there are in the physical sciences Schaffner's novel use of philosophical tools to deal with scientific research in all of its complexity provides a distinctive angle on basic questions of scientific evaluation and explanation

Whispering the Secrets of Language: An Emotional Journey through **Genes Organisms Populations Controversies Over The Units Of Selection**

In a digitally-driven world where screens reign great and instant interaction drowns out the subtleties of language, the profound secrets and emotional subtleties hidden within phrases frequently move unheard. However, located within the pages of **Genes Organisms Populations Controversies Over The Units Of Selection** a charming fictional value blinking with raw thoughts, lies a fantastic journey waiting to be undertaken. Published by an experienced wordsmith, this wonderful opus invites visitors on an introspective trip, delicately unraveling the veiled truths and profound impact resonating within ab muscles cloth of each and every word. Within the emotional depths of this touching review, we will embark upon a genuine exploration of the book is core subjects, dissect their interesting publishing type, and fail to the effective resonance it evokes strong within the recesses of readers hearts.

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