

# The Origins of Theoretical Population Genetics

William B.  
Provine

With a New Afterword

# The Origins Of The Theoretical Population Genetics

**Matthew B. Hamilton**



## **The Origins Of The Theoretical Population Genetics:**

**The Origins of Theoretical Population Genetics** William B. Provine, 2020-07-24 Tracing the development of population genetics through the writings of such luminaries as Darwin Galton Pearson Fisher Haldane and Wright William B Provine sheds light on this complex field as well as its bearing on other branches of biology *The Origins of Theoretical Population Genetics* William B. Provine, 1996 *Social and Psychological Aspects of Applied Human Genetics* James R. Sorenson, 1972 About 1400 references to books and journal articles primarily concerned with social and psychological issues of applied human genetics in general and genetic counseling in particular Excludes literature dealing with ethical or proscriptive areas Also covers foreign language titles Citations mostly from 1960 s through 1972 Classified arrangement No index **A Companion to the Philosophy of Biology** Sahotra Sarkar, Anya Plutynski, 2010-11-08 A COMPANION TO THE PHILOSOPHY OF BIOLOGY Sarkar is to be congratulated for assembling this talented team of philosophers who are themselves to be congratulated for writing these interesting essays on so many fascinating areas in philosophy of biology This book will be a wonderful resource for future work Elliot Sober University of Wisconsin Madison Many of the discussions here start with a definition of terms and a historical context of the subject before delving into the deeper philosophical issues making it a useful reference for students of biology as well as philosophy Northeastern Naturalist The topics that are addressed are done so well This book will appeal to the advanced student and knowledgeable amateur and may prove useful catalyst for discussion among research teams or those engaged in cross disciplinary studies Reference Reviews A Companion to the Philosophy of Biology offers concise overviews of philosophical issues raised by all areas of biology Addressing both traditional and emerging areas of philosophical interest the volume focuses on the philosophical implications of evolutionary theory as well as key topics such as molecular biology immunology and ecology Comprising essays by top scholars in the field this volume is an authoritative guide for professional philosophers historians sociologists and biologists as well as an accessible reference work for students seeking to learn about this rapidly changing field *Unifying Biology* Vassiliki Betty Smocovitis, 2020-11-10 Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science the evolutionary synthesis of the 1930s and 1940s For more than seventy years after Darwin proposed his theory of evolution it was hotly debated by biological scientists It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists Using methods gleaned from a variety of disciplines Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics they were according to the author also working together to establish an autonomous community of evolutionists Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge In developing her argument she pays close attention to

the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science Drawing from some of the most exciting recent approaches in science studies and cultural studies she argues that science is a culture complete with language rituals texts and practices Unifying Biology offers not only its own new synthesis of the history of modern evolution but also a new way of doing history

**Masterminding Nature** Margaret E. Derry, 2015-01-01 Canadian historian Margaret Derry examines the evolution of modern animal breeding from the invention of improved breeding methods in 18th century England to the application of molecular genetics in the 1980s and 1990s **Population Genetics and Microevolutionary Theory** Alan R.

Templeton, 2021-05-04 Population Genetics and Microevolutionary Theory Explore the fundamentals of the biological implications of population genetic theory In the newly revised Second Edition of Population Genetics and Microevolutionary Theory accomplished researcher and author Alan R Templeton delivers a fulsome discussion of population genetics with coverage of exciting new developments in the field including new discoveries in epigenetics and genome wide studies The book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutionary theory The book emphasizes that population structure forms the underlying template upon which quantitative genetics and natural selection operate and is a must read for future population and evolutionary geneticists and those who wish to work in genetic epidemiology or conservation biology You ll learn about a wide array of topics including quantitative genetics the interactions of natural selection with other evolutionary forces and selection in heterogeneous environments and age structured populations Appendices that cover genetic survey techniques and probability and statistics conclude the book Readers will also benefit from the inclusion of A thorough introduction to population genetics including the scope of the subject its premises and the Hardy Weinberg Model of Microevolution An exploration of systems of mating including a treatment of the use of runs of homozygosity to show pedigree inbreeding in distant ancestors A practical discussion of genetic drift including the use of effective sizes in conservation biology with a discussion of African rhinos as an example A concise examination of coalescence including a treatment of the infinite sites model Perfect for graduate students in genetics and evolutionary biology programs and advanced undergraduate biology majors Population Genetics and Microevolutionary Theory will also earn a place in the libraries of students taking courses in conservation biology human genetics bioinformatics and genomics Foundations of Social Evolution Steven A. Frank, 2019-12-31 This is a masterly theoretical treatment of one of the central problems in evolutionary biology the evolution of social cooperation and conflict Steven Frank tackles the problem with a highly original combination of approaches game theory classical models of natural selection quantitative genetics and kin selection He unites these with the best of economic thought a clear theory of model formation and comparative statics the development of simple methods for analyzing complex problems and notions of information and rationality Using this unique multidisciplinary approach Frank makes major advances in understanding the

foundations of social evolution Frank begins by developing the three measures of value used in biology marginal value reproductive value and kin selection He then combines these measures into a coherent framework providing the first unified analysis of social evolution in its full ecological and demographic context Frank also extends the theory of kin selection by showing that relatedness has two distinct meanings The first is a measure of information about social partners with close affinity to theories of correlated equilibrium and Bayesian rationality in economic game theory The second is a measure of the fidelity by which characters are transmitted to future generations an extended notion of heritability Throughout Frank illustrates his methods with many examples including a complete reformulation of the theory of sex allocation The book also provides a unique how to guide for constructing models of social behavior It is essential reading for evolutionary biologists and for economists mathematicians and others interested in natural selection

**The Philosophy of Science** Sahotra Sankar, 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 *The Philosophy of Science: N-Z, Index* Sahotra Sankar, 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 Complexity and Dynamics, 2017

**Disputed Inheritance** Gregory Radick, 2023-08-18 A root and branch rethinking of how history has shaped the science of genetics In 1900 almost no one had heard of Gregor Mendel Ten years later he was famous as the father of a new science of heredity genetics Even today Mendelian ideas serve as a standard point of entry for learning about genes The message students receive is plain the twenty first century owes an enlightened understanding of how biological inheritance really works to the persistence of an intellectual inheritance that traces back to Mendel's garden Disputed Inheritance turns that message on its head As Gregory Radick shows Mendelian ideas became foundational not because they match reality little in nature behaves like Mendel's peas but because in England in the early years of the twentieth century a ferocious debate ended as it did On one side was the Cambridge biologist William Bateson who in Mendel's name wanted biology and society reorganized around the recognition that heredity is destiny On the other side was the Oxford biologist W F R Weldon who admiring Mendel's discoveries in a limited way thought Bateson's Mendelism represented a backward step since it pushed growing knowledge of the modifying role of environments internal and external to the margins Weldon's untimely death in 1906 before he could finish a book setting out his alternative vision is Radick suggests what sealed the Mendelian victory Bringing together extensive archival research with searching analyses of

the nature of science and history Disputed Inheritance challenges the way we think about genetics and its possibilities past present and future      *Understanding Cultural Traits* Fabrizio Panebianco,Emanuele Serrelli,2016-02-26 This volume constitutes a first step towards an ever deferred interdisciplinary dialogue on cultural traits It offers a way to enter a representative sample of the intellectual diversity that surrounds this topic and a means to stimulate innovative avenues of research It stimulates critical thinking and awareness in the disciplines that need to conceptualize and study culture cultural traits and cultural diversity Culture is often defined and studied with an emphasis on cultural features For UNESCO culture should be regarded as the set of distinctive spiritual material intellectual and emotional features of society or a social group But the very possibility of assuming the existence of cultural traits is not granted and any serious evaluation of the notion of cultural trait requires the interrogation of several disciplines from cultural anthropology to linguistics from psychology to sociology to musicology and all areas of knowledge on culture This book presents a strong multidisciplinary perspective that can help clarify the problems about cultural traits      **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 non-existent 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      Population Genetics Matthew B. Hamilton,2021-01-26 Now updated for its second edition *Population Genetics* is the classic accessible introduction to the

concepts of population genetics Combining traditional conceptual approaches with classical hypotheses and debates the book equips students to understand a wide array of empirical studies that are based on the first principles of population genetics Featuring a highly accessible introduction to coalescent theory as well as covering the major conceptual advances in population genetics of the last two decades the second edition now also includes end of chapter problem sets and revised coverage of recombination in the coalescent model metapopulation extinction and recolonization and the fixation index

Geopolitics and the Green Revolution John H. Perkins, 1997-12-14 During the last 100 years the worldwide yields of cereal grains such as wheat and rice have increased dramatically Since the 1950s developments in plant breeding science have been heralded as a Green Revolution in modern agriculture But what factors have enabled and promoted these technical changes And what are the implications for the future of agriculture This new book uses a framework of political ecology and environmental history to explore the Green Revolution's emergence during the 20th century in the United States Mexico India and Britain It argues that the national security planning efforts of each nation were the most important forces promoting the development and spread of the Green Revolution when viewed in the larger scheme this period can be seen as the latest chapter in the long history of wheat use among humans which dates back to the neolithic revolution Efforts to reform agriculture and mitigate some of the harsh environmental and social consequences of the Green Revolution have generally been insensitive to the deeply embedded nature of high yielding agriculture in human ecology and political affairs This important insight challenges those involved in agriculture reform to make productivity both sustainable and adequate for a growing human population

Fitness Landscapes and the Origin of Species Sergey Gavrilets, 2018-06-05 The origin of species has fascinated both biologists and the general public since the publication of Darwin's *Origin of Species* in 1859 Significant progress in understanding the process was achieved in the modern synthesis when Theodosius Dobzhansky Ernst Mayr and others reconciled Mendelian genetics with Darwin's natural selection Although evolutionary biologists have developed significant new theory and data about speciation in the years since the modern synthesis this book represents the first systematic attempt to summarize and generalize what mathematical models tell us about the dynamics of speciation *Fitness Landscapes and the Origin of Species* presents both an overview of the forty years of previous theoretical research and the author's new results Sergey Gavrilets uses a unified framework based on the notion of fitness landscapes introduced by Sewall Wright in 1932 generalizing this notion to explore the consequences of the huge dimensionality of fitness landscapes that correspond to biological systems In contrast to previous theoretical work which was based largely on numerical simulations Gavrilets develops simple mathematical models that allow for analytical investigation and clear interpretation in biological terms Covering controversial topics including sympatric speciation and the effects of sexual conflict on speciation this book builds for the first time a general quantitative theory for the origin of species

*The Eclipse of Darwinism* Peter J. Bowler, 1983 In this pioneering study of the first major challenges to Darwinism Peter J. Bowler

examines the competing theories of evolution identifies their intellectual origins and describes the process by which the modern concept of evolution emerged Describing the variety of influences that drove scientists to challenge Darwin's conclusions Bowler reevaluates the influence of social forces on the scientific community and explores the broad philosophical ideological and social implications of scientific theories *Plant Variation and Evolution* David Briggs, S. Max Walters, 2016-06-30 We are in the midst of a biological revolution Molecular tools are now providing new means of critically testing hypotheses and models of microevolution in populations of wild cultivated weedy and feral plants They are also offering the opportunity for significant progress in the investigation of long term evolution of flowering plants as part of molecular phylogenetic studies of the Tree of Life This long awaited fourth edition fully revised by David Briggs reflects new insights provided by molecular investigations and advances in computer science Briggs considers the implications of these for our understanding of the evolution of flowering plants as well as the potential for future advances Numerous new sections on important topics such as the evolutionary impact of human activities taxonomic challenges gene flow and distribution hybridisation speciation and extinction conservation and the molecular genetic basis of breeding systems will ensure that this remains a classic text for both undergraduate and graduate students in the field Evolutionary Biology Mitchell B. Cruzan, 2018-09-11 Many of the characteristics that distinguish plants from other living organisms can be traced to their origin early in the history of life Features such as a multicellular haploid life stage prevalent hermaphroditism self fertilization and general dependence on biotic and abiotic vectors for reproduction stem directly from the ability of plants to obtain energy from the sun This novel mode of energy capture had far ranging implications for plant evolution It not only fueled the tremendous diversification of life on Earth but also had far ranging implications for the evolution of early photosynthetic organisms and eventually land plants Understanding the evolutionary processes for the proliferation and diversification of plants requires an appreciation of their unique biological features While the processes of mutation selection genetic drift and gene flow are the same for both plants and animals there are specific characteristics of plants that affect their evolution Unique traits of plants affect everything from the fate of mutations to exposure to selection in the haploid life stage to the distribution of genetic variation within and among populations and ultimately the rates and patterns of diversification This book examines the origins of the unique features of plants and the implications of these features for evolutionary processes Author Mitchell B Cruzan provides discussion of contemporary topics such as population genetics phylogeography phylogenetics ecological genetics and genomics The content covered is essential to a wide range of advanced courses in plant biology

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