

# The Evolutionary Synthesis

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Perspectives  
on the Unification  
of Biology

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EDITED BY

Ernst Mayr and  
William B. Provine

# Evolutionary Synthesis Perspectives On The Unification Of Biology

**Jon Agar**



## **Evolutionary Synthesis Perspectives On The Unification Of Biology:**

**The Evolutionary Synthesis** Ernst Mayr, William B. Provine, 1998 Biology was forged into a single coherent science only within living memory In this volume the thinkers responsible for the modern synthesis of evolutionary biology and genetics come together to analyze that remarkable event In a new Preface Ernst Mayr calls attention to the fact that scientists in different biological disciplines varied considerably in their degree of acceptance of Darwin's theories Mayr shows us that these differences were played out in four separate periods 1859 to 1899 1900 to 1915 1916 to 1936 and 1937 to 1947 He thus enables us to understand fully why the synthesis was necessary and why Darwin's original theory that evolutionary change is due to the combination of variation and selection is as solid at the end of the twentieth century as it was in 1859

**Ornithology, Evolution, and Philosophy** Jürgen Haffer, 2007-11-19 This book is the first detailed biography of Ernst Mayr He was an architect of the Synthetic Theory of Evolution and the greatest evolutionary biologist since Charles Darwin He is one of the most widely known biologists of the 20th century *Unity and Disunity in Evolutionary Biology* Richard G. Delisle, Maurizio Esposito, David Ceccarelli, 2024-09-02 It is not uncommon to see in major areas of research concerned with science that historical studies are accompanied by the rise of complementary or contradictory historiographies With time it seems scholars discover new approaches to study topics thus questioning old concepts traditions periodizations and historical labels Apparently this has not been the case in evolutionary thought In that area the main historiographic labels such as Darwinian Revolution Eclipse of Darwinism and Modern Synthesis have been in place and largely uncontested for about 50 years Such labels seem to work as irrefutable and often hidden premises of many historical reconstructions philosophical analyses and scientific conceptualizations This volume aims to move beyond this state of affair opening new thinking avenues by revisiting the traditional historiography and laying the groundwork for establishing a new historiography that considers the intertwined threads that compose evolutionary biology Notably evolutionary studies seem to have been marked by the tension between unification attempts and the proliferation of approaches methodologies and styles of thinking As the contributors to this volume illustrate research traditions branched off throughout the history of evolutionary thought before and after Charles Darwin The resulting complexity challenges traditional thinking categories throwing a somewhat different light on a more recent label like the Extended Evolutionary Synthesis More than 40 years after the now classic *The Evolutionary Synthesis Perspectives on the Unification of Biology* 1980 edited by Ernst Mayr and William Provine the contributors to this volume aim to reevaluate where evolutionary biology stands today **The Mystery of Evolutionary Mechanisms** Robert F. Shedinger, 2019-06-28 Is Darwinian evolution really the most successful scientific theory ever proposed or even the best idea anyone has ever had as Daniel Dennett once put it *The Mystery of Evolutionary Mechanisms* provides a comprehensive critical reading of the literature of evolutionary biology from Darwin to Dobzhansky to Dawkins revealing this popular account of evolution to be a grand narrative of Darwinian triumph that greatly overstates the empirical

validity of modern evolutionary theory The mechanisms driving the evolutionary process truly remain a mystery more than one hundred fifty years after Origin of Species a fact that can free religion scholars to think in more creative ways about the positive contributions religious reflection might make to our understanding of life s origin and diversity The Mystery of Evolutionary Mechanisms calls for an embrace of mystery understood not as an abdication of the scientific quest for truth but as a courageous and humble acknowledgment of the limits of human reason and an openness to a fundamentally religious orientation toward life

**Unifying Biology** Vassiliki Betty Smocovitis,1996-12 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

The Paleobiological Revolution David Sepkoski,Michael Ruse,2015-03-04 The Paleobiological Revolution chronicles the incredible ascendance of the once maligned science of paleontology to the vanguard of a field With the establishment of the modern synthesis in the 1940s and the pioneering work of George Gaylord Simpson Ernst Mayr and Theodosius Dobzhansky as well as the subsequent efforts of Stephen Jay Gould David Raup and James Valentine paleontology became embedded in biology and emerged as paleobiology a first rate discipline central to evolutionary studies Pairing contributions from some of the leading actors of the transformation with overviews from historians and philosophers of science the essays here capture the excitement of the seismic changes in the discipline In so doing David Sepkoski and Michael Ruse harness the energy of the past to call for further study of the conceptual development of modern paleobiology

Science in the 20th Century and Beyond Jon Agar,2013-05-20 A compelling history of science from 1900 to the present day this is the first book to survey modern developments in science during a century of unprecedented change conflict and uncertainty The scope is global Science s claim to access universal truths about the natural world made it an irresistible resource for industrial empires ideological programs and environmental

campaigners during this period Science has been at the heart of twentieth century history from Einstein's new physics to the Manhattan Project from eugenics to the Human Genome Project or from the wonders of penicillin to the promises of biotechnology For some science would only thrive if autonomous and kept separate from the political world while for others science was the best guide to a planned and better future Science was both a routine if essential part of an orderly society and the disruptive source of bewildering transformation Jon Agar draws on a wave of recent scholarship that explores science from interdisciplinary perspectives to offer a readable synthesis that will be ideal for anyone curious about the profound place of science in the modern world

**Evolutionary Causation** Tobias Uller, Kevin N. Lala, 2019-09-03 A comprehensive treatment of the concept of causation in evolutionary biology that makes clear its central role in both historical and contemporary debates Most scientific explanations are causal This is certainly the case in evolutionary biology which seeks to explain the diversity of life and the adaptive fit between organisms and their surroundings The nature of causation in evolutionary biology however is contentious How causation is understood shapes the structure of evolutionary theory and historical and contemporary debates in evolutionary biology have revolved around the nature of causation Despite its centrality and differing views on the subject the major conceptual issues regarding the nature of causation in evolutionary biology are rarely addressed This volume fills the gap bringing together biologists and philosophers to offer a comprehensive interdisciplinary treatment of evolutionary causation Contributors first address biological motivations for rethinking evolutionary causation considering the ways in which development extra genetic inheritance and niche construction challenge notions of cause and process in evolution and describing how alternative representations of evolutionary causation can shed light on a range of evolutionary problems Contributors then analyze evolutionary causation from a philosophical perspective considering such topics as causal entanglement the commingling of organism and environment and the relationship between causation and information Contributors John A Baker Lynn Chiu David I Dayan Ren e A Duckworth Marcus W Feldman Susan A Foster Melissa A Graham Heikki Helanter Kevin N Lala Armin P Moczek John Odling Smee Jun Otsuka Massimo Pigliucci Arnaud Pocheville Arlin Stoltzfus Karola Stoltz Sonia E Sultan Christoph Thies Tobias Uller Denis M Walsh Richard A Watson

**The Epistemology of Development, Evolution, and Genetics** Richard Burian, 2005 These essays examine the developments in three fundamental biological disciplines embryology evolutionary biology and genetics These disciplines were in conflict for much of the 20th century and the essays in this collection examine key methodological problems within these disciplines and the difficulties faced in overcoming the conflicts between them Burian skillfully weaves together historical appreciation of the settings within which scientists work substantial knowledge of the biological problems at stake and the methodological and philosophical issues faced in integrating biological knowledge drawn from disparate sources

**The Evolution Controversy in America** George E. Webb, 2021-05-11 A comprehensive intellectual history of America's century old debate over teaching evolution in public schools For well over a century the United States has

witnessed a prolonged debate over the teaching of organic evolution in the nation's public schools. The controversy that began with the publication of Darwin's *Origin of the Species* had by the 1920s expanded to include theologians, politicians, and educators. The Scopes trial of 1925 provided the growing antievolution movement with significant publicity and led to a decline in the teaching of evolution. In *The Evolution Crisis in America*, George E. Webb details how efforts to improve science education in the wake of Sputnik resurrected antievolution sentiment and led to the emergence of creation science as the most recent expression of that sentiment. Creationists continue to demand balanced treatment of theories of creation and evolution in public schools even though their efforts have been declared unconstitutional in a series of federal court cases. Their battles have been much more successful at the grassroots level, garnering support from local politicians and educators. Webb attributes the success of creationists primarily to the lack of scientific literacy among the American public.

*Applying Evolutionary Archaeology* Michael J. O'Brien, R. Lee Lyman, 2007-05-08 Anthropology and by extension archaeology has had a long standing interest in evolution in one or several of its various guises. Pick up any lengthy treatise on humankind written in the last quarter of the nineteenth century and the chances are good that the word evolution will appear somewhere in the text. If for some reason the word itself is absent, the odds are excellent that at least the concept of change over time will have a central role in the discussion. After one of the preeminent and often vilified social scientists of the nineteenth century, Herbert Spencer, popularized the term in the 1850s, evolution became more or less a household word, usually being used synonymously with change, albeit change over extended periods of time. Later, through the writings of Edward Burnett Tylor, Lewis Henry Morgan, and others, the notion of evolution as it applies to stages of social and political development assumed a prominent position in anthropological discussions. To those with only a passing knowledge of American anthropology, it often appears that evolutionism in the early twentieth century went into a decline at the hands of Franz Boas and those of similar outlook, often termed particularists. However, it was not evolutionism that was under attack, but rather comparativism, an approach that used the ethnographic present as a key to understanding how and why past peoples lived the way they did.

Boas 1896 *The Arrival of the Fittest* Jim Endersby, 2025-01-06 In the early twentieth century, varied audiences took biology out of the hands of specialists and transformed it into mass culture, transforming our understanding of heredity in the process. In the early twentieth century, communities made creative use of the new theories of heredity in circulation at the time, including the now largely forgotten mutation theory of Hugo de Vries. Science fiction writers, socialists, feminists, and utopians are among those who seized on the amazing possibilities of rapid and potentially controllable evolution. De Vries's highly respected scientific theory only briefly captured the attention of the scientific community, but its many fans appropriated it for their own wildly imaginative ends. Writers from H. G. Wells and Edith Wharton to Charlotte Perkins Gilman, J. B. S. Haldane, and Aldous Huxley created a new kind of imaginary future which Jim Endersby calls the biotopia. It took the ambiguous possibilities of biology, utopian, and dystopian, and reimagined them in ways that still influence the public's

understanding of the life sciences The Arrival of the Fittest recovers the fascinating long forgotten origins of ideas that have informed works of fiction from Brave New World to the X Men movies all while reflecting on the lessons positive and negative that this period might offer us

**Biological Information** Robert J Marks II, Michael J Behe, William A Dembski, Bruce L Gordon, John C Sanford, 2013-06-03 In the spring of 2011 a diverse group of scientists gathered at Cornell University to discuss their research into the nature and origin of biological information This symposium brought together experts in information theory computer science numerical simulation thermodynamics evolutionary theory whole organism biology developmental biology molecular biology genetics physics biophysics mathematics and linguistics This volume presents new research by those invited to speak at the conference The contributors to this volume use their wide ranging expertise in the area of biological information to bring fresh insights into the many explanatory difficulties associated with biological information These authors raise major challenges to the conventional scientific wisdom which attempts to explain all biological information exclusively in terms of the standard mutation selection paradigm Several clear themes emerged from these research papers 1 Information is indispensable to our understanding of what life is 2 Biological information is more than the material structures that embody it 3 Conventional chemical and evolutionary mechanisms seem insufficient to fully explain the labyrinth of information that is life By exploring new perspectives on biological information this volume seeks to expand encourage and enrich research into the nature and origin of biological information

*Jewish Tradition and the Challenge of Darwinism* Geoffrey Cantor, Marc Swetlitz, 2008-09-15 Darwin's theory of evolution transformed the life sciences and made profound claims about human origins and the human condition topics often viewed as the prerogative of religion As a result evolution has provoked a wide variety of religious responses ranging from angry rejection to enthusiastic acceptance While Christian responses to evolution have been studied extensively little scholarly attention has been paid to Jewish reactions Jewish Tradition and the Challenge of Darwinism is the first extended meditation on the Jewish engagement with this crucial and controversial theory The contributors to Jewish Tradition and the Challenge of Darwinism from several academic disciplines and two branches of the rabbinate present case studies showing how Jewish discussions of evolution have been shaped by the intersections of faith science philosophy and ideology in specific historical contexts Furthermore they examine how evolutionary theory has been deployed when characterizing Jews as a race both by Zionists and by anti Semites Jewish Tradition and the Challenge of Darwinism addresses historical and contemporary as well as progressive and Orthodox responses to evolution in America Europe and Israel ultimately extending the history of Darwinism into new religious domains

*Neo-Aristotelian Perspectives on Formal Causation* Ludger Jansen, Petter Sandstad, 2021-03-22 This is the first volume of essays devoted to Aristotelian formal causation and its relevance for contemporary metaphysics and philosophy of science The essays trace the historical development of formal causation and demonstrate its relevance for contemporary issues such as causation explanation laws of nature functions essence modality and metaphysical grounding

The introduction to the volume covers the history of theories of formal causation and points out why we need a theory of formal causation in contemporary philosophy Part I is concerned with scholastic approaches to formal causation while Part II presents four contemporary approaches to formal causation The three chapters in Part III explore various notions of dependence and their relevance to formal causation Part IV finally discusses formal causation in biology and cognitive sciences Neo Aristotelian Perspectives on Formal Causation will be of interest to advanced graduate students and researchers working on contemporary Aristotelian approaches to metaphysics and philosophy of science This volume includes contributions by Jos Tom s Alvarado Christopher J Austin Giacomo Giannini Jani Hakkarainen Ludger Jansen Markku Kein nen Gyula Klima James G Lennox Stephen Mumford David S Oderberg Michele Paolini Paoletti Sandeep Prasada Petter Sandstad Wolfgang Sattler Benjamin Schnieder Matthew Tugby and Jonas Werner

**Mutating Concepts, Evolving Disciplines: Genetics, Medicine, and Society** L.S. Parker, Rachel A. Ankeny, 2012-12-06 Advances in genetics such as the Human Genome Project s successful mapping of the human genome and the discovery of ever more sites of disease related mutations invite re examination of basic concepts underlying our fundamental social practices and institutions Having children assigning responsibility identifying causes using social and scientific resources to improve human well being among other concepts will never be the same Our concepts of moral and legal responsibility cause and effect disease prevention health disability enhancement personal identity and reproductive autonomy and responsibility are all subtly changing in response to developments in genetics Biology law medicine and other disciplines are also evolving in response to mutating concepts in genetics itself for example dominance causation behavior gene expression and gene The selections in this volume employ philosophical and historical perspectives to shed light on classic social ethical and philosophical issues raised with renewed urgency against the backdrop of the mapping of the human genome

**The Evolution of Theodosius Dobzhansky** Mark B. Adams, 2014-07-14 This volume not only offers an intellectual biography of one of the most important biologists and social thinkers of the twentieth century but also illuminates the development of evolutionary studies in Russia and in the West Theodosius Dobzhansky 1900 1975 a creator of the evolutionary synthesis and the author of its first modern statement Genetics and the Origin of Species 1937 founded modern Western population genetics and wrote many popular books on such topics as human evolution race and racism equality and human destiny In this the first book devoted to an analysis of the historical scientific and cultural dimensions of Dobzhansky s life and thought an international group of historians biologists and philosophers addresses the full span of his career in Russia and the United States Beginning with the reminiscences of his daughter Sophia Dobzhansky Coe these essays cover Dobzhansky s Russian roots Nikolai L Klementsov Daniel A Alexandrov Mikhail B Konashev the Morgan Lab Garland E Allen William B Provine Robert E Kohler Richard M Burian his scientific legacy Scott F Gilbert Bruce Wallace Charles E Taylor and his social political philosophical and religious thought Costas B Krimbas John Beatty Diane B Paul Michael Ruse Originally published in 1994 The Princeton



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Beyond Mechanism Brian G. Henning, Adam Scarfe, 2013-02-01. It has been said that new discoveries and developments in the human social and natural sciences hang in the air. Bowler 1983, 2008 prior to their consummation. While neo-Darwinist biology has been powerfully served by its mechanistic metaphysics and a reductionist methodology in which living organisms are considered machines, many of the chapters in this volume place this paradigm into question. Pairing scientists and philosophers together, this volume explores what might be termed the New Frontiers of biology, namely contemporary areas of research that appear to call for an updating, a supplementation, or a relaxation of some of the main tenets of the Modern Synthesis. Such areas of investigation include Emergence Theory, Systems Biology, Biosemiotics, Homeostasis, Symbiogenesis, Niche Construction, the Theory of Organic Selection (also known as the Baldwin Effect), Self-Organization, and Teleodynamics, as well as Epigenetics. Most of the chapters in this book offer critical reflections on the neo-Darwinist outlook and work to promote a novel synthesis that is open to a greater degree of inclusivity as well as to a more holistic orientation in the biological sciences.

*Shaping Science with Rhetoric* Leah Ceccarelli, 2010-11-15. How do scientists persuade colleagues from diverse fields to cross the disciplinary divide, risking their careers in new interdisciplinary research programs? Why do some attempts to inspire such research win widespread acclaim and support while others do not? In *Shaping Science with Rhetoric*, Leah Ceccarelli addresses such questions through close readings of three scientific monographs in their historical contexts: Theodosius Dobzhansky's *Genetics and the Origin of Species* (1937), which inspired the modern synthesis of evolutionary biology; Erwin Schrödinger's *What Is Life?* (1944), which catalyzed the field of molecular biology; and Edward O. Wilson's *Consilience* (1998), a so far not entirely successful attempt to unite the social and biological sciences. She examines the rhetorical strategies used in each book and evaluates which worked best, based on the reviews and scientific papers that followed in their wake. Ceccarelli's work will be important for anyone interested in how interdisciplinary fields are formed, from historians and rhetoricians of science to scientists themselves.

*Finding Order in Nature* Paul Lawrence Farber, 2021-04-27. Engaging and concise, a work that gives the general reader a solid understanding and an excellent introduction to the history of natural history. *Library Journal*. Since emerging as a discipline in the middle of the eighteenth century, natural history has been at the heart of the life sciences. It gave rise to the major organizing theory of life, evolution, and continues to be a vital science with impressive practical value. Central to advanced work in ecology, agriculture, medicine, and environmental science, natural history also attracts enormous popular interest. In *Finding Order in Nature*, Paul Farber traces the development of the naturalist tradition since the Enlightenment and considers its relationship to other research areas in

the life sciences Written for the general reader and student alike the volume explores the adventures of early naturalists the ideas that lay behind classification systems the development of museums and zoos and the range of motives that led collectors to collect Farber also explores the importance of sociocultural contexts institutional settings and government funding in the story of this durable discipline The history of natural history can rarely have been as succinctly told as in Paul Lawrence Farber s 129 page *Finding Order in Nature* From the intellectual revolutions of Linnaeus and Darwin through the Victorian obsessions with classifying and collecting to the conservationists led by E O Wilson it is an odyssey beautifully told *New Scientist* Farber does an impressive job of demonstrating how practitioners like Linnaeus Buffon Saint Hilaire and Cuvier advanced the field and set the stage for the development of science as we know it today *Publishers Weekly*

## Reviewing **Evolutionary Synthesis Perspectives On The Unification Of Biology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Evolutionary Synthesis Perspectives On The Unification Of Biology**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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