

THE
PHILOSOPHY OF A
BIOLOGIST

By

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The Philosophy Of A Biologist

Marjorie Grene, Everett Mendelson

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The Philosophy of a Biologist John Scott Haldane,1935 **Philosophy Of Biology** Elliott Sober,2018-03-05 Perhaps because of it implications for our understanding of human nature recent philosophy of biology has seen what might be the most dramatic work in the philosophies of the special sciences This drama has centered on evolutionary theory and in the second edition of this textbook Elliott Sober introduces the reader to the most important issues of these developments With a rare combination of technical sophistication and clarity of expression Sober engages both the higher level of theory and the direct implications for such controversial issues as creationism teleology nature versus nurture and sociobiology Above all the reader will gain from this book a firm grasp of the structure of evolutionary theory the evidence for it and the scope of its explanatory significance

The Philosophy of Biology Marjorie Grene,David J. Depew,2004-08-02 Examines how the philosophy of biology has evolved to our current understanding **Philosophy of Biology** Peter Godfrey-Smith,2016-09-06 An essential introduction to the philosophy of biology This is a concise comprehensive and accessible introduction to the philosophy of biology written by a leading authority on the subject Geared to philosophers biologists and students of both the book provides sophisticated and innovative coverage of the central topics and many of the latest developments in the field Emphasizing connections between biological theories and other areas of philosophy and carefully explaining both philosophical and biological terms Peter Godfrey Smith discusses the relation between philosophy and science examines the role of laws mechanistic explanation and idealized models in biological theories describes evolution by natural selection and assesses attempts to extend Darwin s mechanism to explain changes in ideas culture and other phenomena Further topics include functions and teleology individuality and organisms species the tree of life and human nature The book closes with detailed cutting edge treatments of the evolution of cooperation of information in biology and of the role of communication in living systems at all scales Authoritative and up to date this is an essential guide for anyone interested in the important philosophical issues raised by the biological sciences

The Philosophy of Biology Kostas Kampourakis,2013-06-18 This book brings together for the first time philosophers of biology to write about some of the most central concepts and issues in their field from the perspective of biology education The chapters of the book cover a variety of topics ranging from traditional ones such as biological explanation biology and religion or biology and ethics to contemporary ones such as genomics systems biology or evolutionary developmental biology Each of the 30 chapters covers the respective philosophical literature in detail and makes specific suggestions for biology education The aim of this book is to inform biology educators undergraduate and graduate students in biology and related fields students in teacher training programs and curriculum developers about the current state of discussion on the major topics in the philosophy of biology and its implications for teaching biology In addition the book can be valuable to philosophers of biology as an introductory text in undergraduate and graduate courses

The Cambridge Companion to the Philosophy of Biology David L. Hull,Michael Ruse,2007-10-01

The philosophy of biology is one of the most exciting new areas in the field of philosophy and one that is attracting much attention from working scientists. This Companion edited by two of the founders of the field includes newly commissioned essays by senior scholars and up-and-coming younger scholars who collectively examine the main areas of the subject: the nature of evolutionary theory, classification, teleology and function, ecology, and the problematic relationship between biology and religion, among other topics. Up-to-date and comprehensive in its coverage, this unique volume will be of interest not only to professional philosophers but also to students in the humanities and researchers in the life sciences and related areas of inquiry.

Topics in the Philosophy of Biology Marjorie Grene, Everett Mendelsohn, 2012-12-06

The philosophy of biology should move to the center of the philosophy of science, a place it has not been accorded since the time of Mach. Physics was the paradigm of science and its shadow falls across contemporary philosophy of biology as well in a variety of contexts: reduction, organization and system, biochemical mechanism and the models of law and explanation which derive from the Duhem-Popper-Hempel tradition. This volume we think offers ample evidence of how good contemporary work in the philosophical understanding of biology has become. Marjorie Grene and Everett Mendelsohn aptly combine a deep philosophical appreciation of conceptual issues in biology with an historical understanding of the radical changes in the science of biology since the 19th century. In this book they present essays which probe such historical and methodological questions as reducibility levels of organization, function and teleology, and the range of issues emerging from evolutionary theory and the species problem. In conjunction with Professor Grene's collection of essays on the philosophy of biology, *The Understanding of Nature* (Boston Studies in the Philosophy of Science Vol. XXIII) and the occasional essays on these topics which we have published in other volumes listed below, this volume contributes to bringing biology to the center of philosophical attention.

Everett Mendelsohn, *Explanation in Nineteenth-Century Biology* (Boston Studies in the Philosophy of Science Vol. II) 1965; David Hawkins, *Taxonomy and Information* (Boston Studies in the Philosophy of Science Vol. III) 1967.

Philosophy of Biology Samir Okasha, 2019-11-28

Over the last forty years the philosophy of biology has emerged as an important sub-discipline of the philosophy of science. Covering some of science's most divisive topics such as philosophical issues in genetics, it also encompasses areas where modern biology has increasingly impinged on traditional philosophical questions such as free will, essentialism and nature vs. nurture. In this Very Short Introduction, Samir Okasha outlines the core issues with which contemporary philosophy of biology is engaged. Offering a whistle-stop tour of the history of biology, he explores key ideas and paradigm shifts throughout the centuries, including areas such as the theory of evolution by natural selection, the concepts of function and design, biological individuality, and the debate over adaptationism. Throughout, Okasha makes clear the relevance of biology for understanding human beings, human society, and our place in the natural world, and the importance of engaging with these issues.

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new ideas and enthusiasm to make interesting and challenging topics highly readable *Philosophy of Biology* Ale Rosenberg,Alexander Rosenberg,Daniel W. McShea,2007 *The Philosophy of a Biologist* John Burden Sanderson Haldane,1935 *Philosophy of Biology* Alex Rosenberg,Robert Arp,2009-04-27 By combining excerpts from key historical writings with editors introductions and further reading material *Philosophy of Biology An Anthology* offers a comprehensive accessible and up to date collection of the field s most significant works Addresses central questions such as What is life and How did it begin and the most current research and arguments on evolution and developmental biology Editorial notes throughout the text define clarify and qualify ideas concepts and arguments Includes material on evolutionary psychology and evolutionary developmental biology not found in other standard philosophy of biology anthologies Further reading material assists novices in delving deeper into research in philosophy of biology **Foundations of Biophilosophy** Martin Mahner,Mario Bunge,1997-05-20 Over the past three decades the philosophy of biology has emerged from the shadow of the philosophy of physics to become a respectable and thriving philosophical subdiscipline In their book the authors take a fresh look at the life sciences and their philosophy from a strictly realist and emergentist naturalist perspective They outline a unified and science oriented philosophical framework that enables them to clarify many foundational and philosophical issues in biology Thus this book should be of interest to both life scientists and philosophers and is suitable as a textbook for courses at the advanced levels as well as for independent study *Philosophy of Biology* Brian Garvey,2014-12-05 This major new series in the philosophy of science aims to provide a new generation of textbooks for the subject The series will not only offer fresh treatments of core topics in the theory and methodology of scientific knowledge but also introductions to newer areas of the discipline Furthermore the series will cover topics in current science that raise significant foundational issues both for scientific theory and for philosophy more generally Biology raises distinct questions of its own not only for philosophy of science but for metaphysics epistemology and ethics This comprehensive new textbook for a rapidly growing field of study provides students new to the subject with an up to date presentation of the key philosophical issues Care is taken throughout to keep the technicalities accessible to the non biologist but without sacrificing the philosophical subtleties The first part of the book covers the philosophical challenges posed by evolution and evolutionary biology beginning with Darwin s central argument in the *Origin of the Species* Individual chapters cover natural selection the selfish gene alternative units of selection developmental systems theory adaptionism and issues in macroevolution The second part of the book examines philosophical questions arising in connection with biological traits function nature and nurture and biological kinds The third part of the book examines metaphysical questions biology s relation with the traditional concerns of philosophy of science and how evolution has been introduced into epistemological debates The final part considers the relevance of biology to questions about ethics religion and human nature *Canguilhem and Continental Philosophy of Biology* Giuseppe Bianco,Charles T. Wolfe,Gertrudis Van de Vijver,2023-02-01 This edited volume presents papers on this

alternative philosophy of biology that could be called continental philosophy of biology and the variety of positions and solutions that it has spawned In doing so it contributes to debates in the history and philosophy of science and the history of philosophy of science as well as to the craving for history and or theory in the theoretical biological disciplines In addition however it also provides inspiration for a broader image of philosophy of biology in which these traditional issues may have a place The volume devotes specific attention to the work of Georges Canguilhem which is central to this alternative tradition of continental philosophy of biology This is the first collection on Georges Canguilhem and the Continental tradition in philosophy of biology The book should be of interest to philosophers of biology continental philosophers historians of biology and those interested in broader traditions in philosophy of science Philosophy of Biology Before Biology Cécilia

Bognon-Küss, Charles T. Wolfe, 2019-02-11 The use of the term biology to refer to a unified science of life emerged around 1800 most prominently by scientists such as Lamarck and Treviranus although scholarship has indicated its usage at least 30 40 years earlier The interplay between philosophy and natural science has also accompanied the constitution of biology as a science Philosophy of Biology Before Biology examines biological and protobiological writings from the mid eighteenth century to the early nineteenth century from Buffon to Cuvier Kant to Oken and Kielmeyer with two major sets of questions in mind What were the distinctive conceptual features of the move toward biology as a science What were the relations and differences between the philosophical focus on the nature of living entities and the scientific focus This insightful volume produces a fresh but also systematic perspective both on the history of biology as a science and on the early versions of in the 1960s in a post positivist context the philosophy of biology It will appeal to students and researchers interested in fields such as history of science philosophy of science and biology The Understanding of Nature Marjorie Grene, 2012-12-06 No

student or colleague of Marjorie Grene will miss her incisive presence in these papers on the study and nature of living nature and we believe the new reader will quickly join the stimulating discussion and critique which Professor Grene steadily provokes For years she has worked with equally sure knowledge in the classical domain of philosophy and in modern epistemological inquiry equally philosopher of science and metaphysician Moreover she has the deeply sensible notion that she should be a critically intelligent learner as much as an imaginatively original thinker and as a result she has brought insightful expository readings of other philosophers and scientists to her own work We were most fortunate that Marjorie Grene was willing to spend a full semester of a recent leave here in Boston and we have on other occasions sought her participation in our colloquia and elsewhere Now we have the pleasure of including among the Boston Studies in the Philosophy of Science this generous selection from Grene's philosophical inquiries into the understanding of the natural world and of the men and women in it Boston University Center for the R S COHEN Philosophy and History of Science M W W ARTOFSKY April 1974 PREFACE This collection spans spottily years from 1946 On Some Distinctions between Men and Brutes to 1974 On the Nature of Natural Necessity Philosophical Biology in Aristotle's Parts of Animals Jason A.

Tipton,2013-10-21 This book provides a detailed analysis of Aristotle's Parts of Animals. It presents the wealth of information provided in the biological works of Aristotle and revisits the detailed natural history observations that inform and in many ways penetrate the philosophical argument. It raises the question of how easy it is to clearly distinguish between what some might describe as merely biological and the philosophical. It explores the notion and consequences of describing the activity in which Aristotle is engaged as philosophical biology. The book examines such questions as do readers of Aristotle have in mind organisms like Ascidiants or Holothurians when trying to understand Aristotle's argument regarding plant like animals. Do they need the phenomena in front of them to understand the terms of the philosophical argument in a richer way? The discussion of plant like animals is important in Aristotle because of the question about the continuum between plant and animal life. Where does Aristotle draw the line? Plant like animals bring this question into focus and demonstrate the indeterminacy of any potential solution to the division. This analysis of Parts of Animals shows that the study of the nature of the organic world was Aristotle's way into such ontological problems as the relationship between matter and form or form and function or the heterogeneity of the many different kinds of being.

Philosophy of Biology ,2007-02-05 Philosophy of Biology is a rapidly expanding field. It is concerned with explanatory concepts in evolution, genetics and ecology. This collection of 25 essays by leading researchers provides an overview of the state of the field. These essays are wholly new; none of them could have been written even ten years ago. They demonstrate how philosophical analysis has been able to contribute to sometimes contested areas of scientific theory making. Written by internationally acknowledged leaders in the field. Entries make original contributions as well as summarizing state of the art discoveries in the field. Easy to read and understand.

The Philosophy of a Scientist Ronald Grey Gordon,1948

The Philosophy of Biology James Johnstone,1914

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