

THE PHILOSOPHY AND HISTORY OF MOLECULAR BIOLOGY: NEW PERSPECTIVES

Edited by

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Philosophy And History Of Molecular Biology New Perspectives

Justin Garson



Philosophy And History Of Molecular Biology New Perspectives:

The Biology and History of Molecular Biology: New Perspectives Sahotra Sarkar, 1996-09-30 This book is a collection of papers which reflect the recent trends in the philosophy and history of molecular biology It brings together historians philosophers and molecular biologists who reflect on the discipline s emergence in the 1950 s its explosive growth and the directions in which it is going Questions addressed include i what are the limits of molecular biology ii What is the relation of molecular biology to older subdisciplines of biology especially biochemistry iii Are there theories in molecular biology iv If so how are these theories structured v What role did information theory play in the rise of molecular biology The book will open the way for many future researchers 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 **Organisms, Agency, and Evolution** D. M.

Walsh, 2015-11-13 The central insight of Darwin s *Origin of Species* is that evolution is an ecological phenomenon arising from the activities of organisms in the struggle for life By contrast the Modern Synthesis theory of evolution which rose to prominence in the twentieth century presents evolution as a fundamentally molecular phenomenon occurring in populations of sub organismal entities genes After nearly a century of success the Modern Synthesis theory is now being challenged by empirical advances in the study of organismal development and inheritance In this important study D M Walsh shows that the principal defect of the Modern Synthesis resides in its rejection of Darwin s organismal perspective and argues for situated Darwinism an alternative organism centred conception of evolution that prioritises organisms as adaptive agents His book will be of interest to scholars and advanced students of evolutionary biology and the philosophy of biology **Models**

of Discovery and Creativity Joke Meheus, Thomas Nickles, 2009-10-08 Since the origin of the modern sciences our views on discovery and creativity had a remarkable history Originally discovery was seen as an integral part of methodology and the logic of discovery as algorithmic or nearly algorithmic During the nineteenth century conceptions in line with romanticism led to the famous opposition between the context of discovery and the context of justification culminating in a view that banned discovery from methodology The revival of the methodological investigation of discovery which started some thirty years ago derived its major impetus from historical and sociological studies of the sciences and from developments within cognitive psychology and artificial intelligence Today a large majority of philosophers of science agrees that the classical conception as well as the romantic conception are mistaken Against the classical conception it is generally accepted that truly novel discoveries are not the result of simply applying some standardized procedure Against the romantic conception it is rejected that discoveries are produced by unstructured flashes of insight An especially important result of the

contemporary study concerns the availability of descriptive and normative models for explaining discoveries and creative processes Descriptive models mainly aim at explaining the origin of novel products normative models moreover address the question how rational researchers should proceed when confronted with problems for which a standard procedure is missing The present book provides an overview of these models and of the important changes they induced within methodology As appears from several papers the methodological study of discovery and creativity led to profound changes in our conceptions of justification and acceptance of rationality of scientific change and of conceptual change The book contains contributions from both historians and philosophers of science All of them however are methodological in the contemporary sense of the term The central values of this methodology are empirical accurateness clarity and precision and rationality The different contributions realize these values by their interdisciplinary nature Some philosophically oriented papers rely on historical case studies and results from the cognitive sciences others on recent results from the computer sciences and or non standard logics The historically oriented papers address central philosophical questions and hypotheses

Japanese Studies in the Philosophy of Science F.G. Nagasaka, Robert S. Cohen, 1998-05-31 In this book 12 contemporary Japanese philosophers of science are presented using a generous sampling of their works as scientists and philosophers who have investigated the foundations of natural science the philosophy of mind and especially of perception the logic of inference and of time causality and evolution

Cut-and-Paste Genetics Sahotra Sarkar, 2021-09-15 The emergence of CRISPR Cas9 technology has revolutionized gene editing The Nobel prize for chemistry was awarded to Emmanuelle Charpentier and Jennifer Doudna the scientists responsible for its discovery in 2020 and it is considered the frontier of sophisticated medical science This technology contains the promise that both gene therapy and eugenic control of human evolution is possible even plausible in our near future This book looks at these developments in the context of the history of previous social and scientific attempts at genetic editing and explores the policy and ethical challenges they raise It presents the case for altering the human germ line which contains and controls hereditary genetic information to eliminate a large number of genetic diseases controlled by a single or few genes while pointing out that gene therapy is likely to be ineffective for diseases with more complex causes In parallel it explores the possibility of genetic enhancement in a set of case studies But it also argues that in general genetic enhancement is ethically problematic and should be approached with caution Given the success of CRISPR Cas9 gene editing and the explosion of related techniques in practice it would be virtually impossible to ban germ line editing in our future A more useful goal is to put regulation in place with oversight that represents the interests of society That in turn requires an informed public discussion of these issues which is the intention of this book

Philosophical Instruments Daniel Rothbart, 2024-03-18 The surprising roles of instruments and experimentation in acquiring knowledge In Philosophical Instruments Daniel Rothbart argues that our tools are not just neutral intermediaries between humans and the natural world but are devices that demand new ideas about reality Just as a hunter s new spear can change their knowledge of the

environment so can the development of modern scientific equipment alter our view of the world Working at the intersections of science technology and philosophy Rothbart examines the revolution in knowledge brought on by recent advances in scientific instruments Full of examples from historical and contemporary science including electron scanning microscopes sixteenth century philosophical instruments and diffraction devices used by biochemical researchers Rothbart explores the ways in which instrumentation advances a philosophical stance about an instrument s power an experimenter s skills and a specimen s properties Through a close reading of engineering of instruments he introduces a philosophy from rather than of design contending that philosophical ideas are channeled from design plans to models and from model into the use of the devices

The Recombinant University Doogab Yi,2015-03-23 The advent of recombinant DNA technology in the 1970s was a key moment in the history of both biotechnology and the commercialization of academic research Doogab Yi s The Recombinant University draws us deeply into the academic community in the San Francisco Bay Area where the technology was developed and adopted as the first major commercial technology for genetic engineering In doing so it reveals how research patronage market forces and legal developments from the late 1960s through the early 1980s influenced the evolution of the technology and reshaped the moral and scientific life of biomedical researchers Bay Area scientists university administrators and government officials were fascinated by and increasingly engaged in the economic and political opportunities associated with the privatization of academic research Yi uncovers how the attempts made by Stanford scientists and administrators to demonstrate the relevance of academic research were increasingly mediated by capitalistic conceptions of knowledge medical innovation and the public interest Their interventions resulted in legal shifts and moral realignments that encouraged the privatization of academic research for public benefit The Recombinant University brings to life the hybrid origin story of biotechnology and the ways the academic culture of science has changed in tandem with the early commercialization of recombinant DNA technology

Epigenetics in Ecology and Evolution Christoph Grunau,Stéphane Maury,2025-05-13 Genetics and its mysterious little sister epigenetics have deep roots in the history of biology Today epigenetics is of paramount importance in not only the fundamental sciences but also in life science applications ranging from molecular biology and disease diagnosis and treatment to agriculture Epigenetics in Ecology and Evolution traces the history of the concept of epigenetics in biology and describes the molecular mechanisms concerned It examines the contributions that the emerging discipline of epigenetics has made to the fields of ecology and evolution regarding both plant and animal organisms as well as its place in our society By exploring the importance of epigenetics at varying levels from the cell to the organism as a whole and even to the ecosystem this book offers answers that are accessible to a wide audience from scientifically curious citizens to students and professionals working in the world of biology The aim is to enable everyone to acquire or develop a critical and informed perspective on the complex relationships between genetics and epigenetics

Behaving Kenneth F. Schaffner,2016-05-02 Behaving presents an overview of the

recent history and methodology of behavioral genetics and psychiatric genetics informed by a philosophical perspective Kenneth F Schaffner addresses a wide range of issues including genetic reductionism and determinism free will and quantitative and molecular genetics The latter covers newer genome wide association studies GWAS that have produced a paradigm shift in the subject and generated the problem of missing heritability Schaffner also presents cases involving pro and con arguments for genetic testing for IQ and for Attention Deficit Hyperactivity Disorder ADHD Schaffner examines the nature nurture controversy and Developmental Systems Theory using *C elegans* or worm studies as a test case concluding that genes are special and provide powerful tools including deep homology for investigating behavior He offers a novel account of biological knowledge emphasizing the importance of models mechanisms pathways and networks which clarifies how partial reductions provide explanations of traits and disorders The book also includes examinations of personality genetics and of schizophrenia and its etiology alongside interviews with prominent researchers in the area and discusses debates about psychosis that led to changes in the DSM 5 in 2013 Schaffner concludes by discussing additional philosophical implications of the genetic analyses in the book some major worries about free will and arguments pro and con about why genes and DNA are so special Though genes are special newer perspectives presented in this book will be needed for progress in behavioral genetics perspectives that situate genes in complex multilevel prototypic pathways and networks With a mix of optimism and pessimism about the state of the field and the subject Schaffner's book will be of interest to scholars in the history and philosophy of science medicine and psychiatry

Advances in Experimental Philosophy of Language

Jussi Haukioja, 2015-05-21 Should philosophy of language use experimental methods or can it be pursued in the armchair Advances in Experimental Philosophy of Language represents a balanced variety of positions on this extensively discussed question In the first collection of its kind leading experts in the field present a number of different perspectives on the relevance of experimental methods in philosophy of language ranging from complete dismissals of traditional methods to defences of armchair approaches As well as exploring possible novel experimental techniques Advances in Experimental Philosophy of Language evaluates the philosophical relevance of existing experimental results and presents new data from new experimental studies For scholars looking to stay ahead of the latest developments and trends in the philosophy of language this important contribution to the field brings the reader up to date

Heinrich Hertz: Classical Physicist, Modern Philosopher D. Baird, R.I. Hughes, A. Nordmann, 2013-03-14 The sub title of this symposium is accurate and in a curious way promises more than it states Classical Physicist Modern Philosopher Heinrich Hertz as the consummate experimentalist of 19th century technique and as brilliant clarifying critic of physical theory of his time achieved one of the fulfillments but at the same time opened one of the transition points of classical physics Thus in his popular lecture On the Relations Between Light and Electricity at Heidelberg in the Fall of 1889 Hertz identified the ether as henceforth the most fundamental problem of physics as the conceptual mystery but also the key to understanding mass electric ity and gravity Of Hertz's demonstration

of electric waves Helmholtz told the Physical Society of Berlin Gentlemen I have to communicate to you today the most important physical discovery of the century Hertz philosophizing in his direct lucid pithy style once wrote We have to imagine Perhaps this is metaphysics on the horizon In the early pages of his Principles of Mechanics we read A doubt which makes an impression on our mind cannot be removed by calling it metaphysical every thoughtful mind as such has needs which scientific men are accustomed to denote as metaphysical PM23 And at another place concerning the terms force and electricity and the alleged mystery of their natures Hertz wrote We have an obscure feeling of this and want to have things cleared up

The Biological Mind Justin Garson, 2014-10-17 For some biology explains all there is to know about the mind Yet many big questions remain is the mind shaped by genes or the environment If mental traits are the result of adaptations built up over thousands of years as evolutionary psychologists claim how can such claims be tested If the mind is a machine as biologists argue how does it allow for something as complex as human consciousness The Biological Mind A Philosophical Introduction explores these questions and more using the philosophy of biology to introduce and assess the nature of the mind Drawing on the four key themes of evolutionary biology molecular biology and genetics neuroscience and biomedicine and psychiatry Justin Garson addresses the following key topics moral psychology altruism and levels of selection evolutionary psychology and modularity genes environment and the nature nurture debate neuroscience reductionism and the relation between biology and free will function selection and mental representation psychiatric classification and the maladapted mind Extensive use of examples and case studies is made throughout the book and additional features such as chapter summaries annotated further reading and a glossary make this an indispensable introduction to those teaching philosophy of mind and philosophy of psychology It will also be an excellent resource for those in related fields such as biology

Interactions Vincent F. Hendricks, Klaus F. Jørgensen, Jesper Lützen, Stig A. Pedersen, 2007-01-17 The main theme of this anthology is the unique interaction between mathematics physics and philosophy during the beginning of the 20th century In this book ten renowned philosopher historians probe insightfully into key conceptual questions of pre quantum mathematical physics The result is a diverse yet thematically focused compilation of first class papers on mathematics physics and philosophy and a source book on the interaction between them

Rescuing Reason Robert Nola, 2003-02-28 Do knowledge and science arise from the application of canons of rationality and scientific method Or is all our scientific knowledge caused by socio political factors or by our interests in the socio political the view of sociologists of knowledge Or does it result from interplay of relations of power the view of Michel Foucault Or does our knowledge arise from the will to power the view of Nietzsche This volume sets out to critically examine the theses of those who would debunk the idea of rational explanation The book is wide ranging The theories of method of Quine Kuhn Feyerabend amongst others are discussed and related to the views of Marx Foucault Wittgenstein and Nietzsche as well as sociologists of science such as Mannheim and Bloor The author provides a wide interpretative framework which links the doctrines espoused by many of

these authors it is argued that they inherit many of the difficulties in the Strong Programme in the sociology of knowledge and that they fail to reconcile the normativity of knowledge with their naturalism. It is argued that neither relativists, sceptics, nihilists, sociologists of knowledge nor the postmodernists successfully debunk the claims of rational explanation far from it. These theorists presuppose much of the theory of methodology they deny.

Tools and Modes of Representation in the Laboratory Sciences U. Klein, 2001-10-31. Fourteen chapters provide insights into the efforts of 19th and 20th century scientists to construct working representations of invisible objects such as the structural formula of a dye, a three dimensional model of a protein or a table conveying relationships between chemical elements. The essays focus on scientists' pragmatic use of representation exploring the concrete ways that scientists implement sign systems as productive tools both to achieve and to shape their organizational goals. Editor Klein is associated with the Max Planck Institute for the History of Science, Berlin. Annotation copyrighted by Book News Inc, Portland, OR.

Science and Modernity S. Lelas, 2001-11-30. Science is a multifaceted natural and historical phenomenon. It consists of five elements that is, it happens in five distinct media: biological, linguistic, technological, social and historical. None of these alone provides an indubitable basis for the truth of scientific knowledge but combined together they compose a solid ground for our trust in its reliability. The composition however is uniquely related to our modern mode of living. Science did not exist before modernity and it will cease to exist in this form if our way of life should change. The book presents a thorough analysis of all these dimensions and their relations and thus lays the path for an integral theory of science. Because of this it can be used as a textbook for general courses in the theory of science at both the undergraduate and graduate level.

E.A. Burtt, Historian and Philosopher D. Villemaire, 2013-04-17. Burtt's book *The Metaphysical Foundations of Modern Physical Science* is something of a puzzle within the context of twentieth century intellectual history, especially American intellectual history. Burtt's pioneering study of the scientific revolution has proved to be prophetic in its rejection of both scientism and positivism. Published in 1924, Burtt's book continues to be read in educated circles and remains both the rose and the thorn on university reading lists, raising skeptical questions about science methods and science knowledge just as it did seventy five years ago. This book examines Burtt's public, academic and personal life. From his politics of conscience after World War I on through the Cold War, Burtt is shown to be a man of unparalleled integrity whose relentless search for philosophic understanding drove his more quixotic philosophical quests and steered his personal life, including its tragic dimension, toward simple virtue. The many who have been affected by *The Metaphysical Foundations* will be especially interested in this new perspective on the life and thought of its author. Those who have not read Burtt's books might be inspired to study this unusual American thinker.

The Reception of the Galilean Science of Motion in Seventeenth-Century Europe Carla Rita Palmerino, J.M.M.H. Thijssen, 2013-03-20. This book collects contributions by some of the leading scholars working on seventeenth century mechanics and the mechanical philosophy. Together the articles provide a broad and accurate picture of the fortune of Galileo.

s theory of motion in Europe and of the various physical mathematical and ontological arguments that were used in favour and against it Were Galileo s contemporaries really aware of what Westfall has described as the incompatibility between the demands of mathematical mechanics and the needs of mechanical philosophy To what extent did Galileo s silence concerning the cause of free fall impede the acceptance of his theory of motion Which methods were used before the invention of the infinitesimal calculus to check the validity of Galileo s laws of free fall and of parabolic motion And what sort of experiments were invoked in favour or against these laws These and related questions are addressed in this volume

The Reality of the Unobservable E. Agazzi, M. Pauri, 2013-04-17 Observability and Scientific Realism It is commonly thought that the birth of modern natural science was made possible by an intellectual shift from a mainly abstract and speculative conception of the world to a carefully elaborated image based on observations There is some grain of truth in this claim but this grain depends very much on what one takes observation to be In the philosophy of science of our century observation has been practically equated with sense perception This is understandable if we think of the attitude of radical empiricism that inspired Ernst Mach and the philosophers of the Vienna Circle who powerfully influenced our century s philosophy of science However this was not the attitude of the founders of modern science Galileo for example expressed in a famous passage of the Assayer the conviction that perceptual features of the world are merely subjective and are produced in the anima by the motion and impacts of unobservable particles that are endowed uniquely with mathematically expressible properties and which are therefore the real features of the world Moreover on other occasions when defending the Copernican theory he explicitly remarked that in admitting that the Sun is static and the Earth turns on its own axis reason must do violence to the sense and that it is thanks to this violence that one can know the true constitution of the universe

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