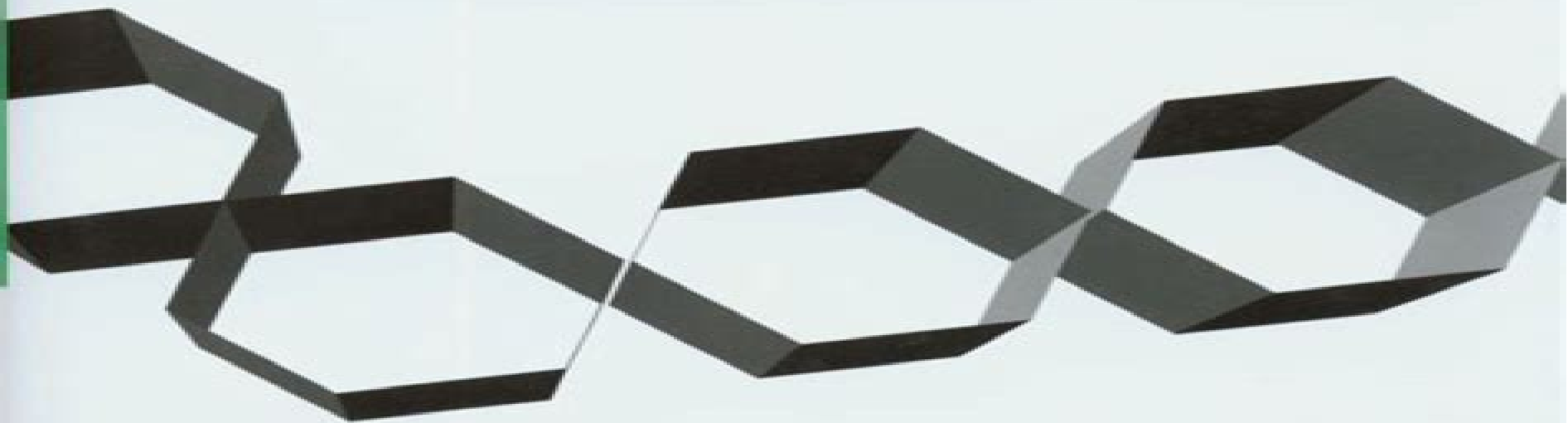


MARCEL WEBER

Philosophy of Experimental Biology



Cambridge Studies in Philosophy and Biology

Philosophy Of Experimental Biology

**John Bickle, Carl F. Craver, Ann-Sophie
Barwich**



Philosophy Of Experimental Biology:

Philosophy of Experimental Biology Marcel Weber, 2004-08-30 Philosophy of Experimental Biology explores some central philosophical issues concerning scientific research in experimental biology including genetics biochemistry molecular biology developmental biology neurobiology and microbiology It seeks to make sense of the explanatory strategies concepts ways of reasoning approaches to discovery and problem solving tools models and experimental systems deployed by scientific life science researchers and also integrates developments in historical scholarship in particular the New Experimentalism It concludes that historical explanations of scientific change that are based on local laboratory practice need to be supplemented with an account of the epistemic norms and standards that are operative in science This book should be of interest to philosophers and historians of science as well as to scientists [Darwinism, Philosophy, and Experimental](#)

[Biology: Special Issue of the Journal for General Philosophy of Science](#) ,2019 **Darwinism, Philosophy, and Experimental Biology** Ute Deichmann, Anthony S. Travis, 2010 Conference proceedings of 2009 year of Darwin international conference on Darwin held in Israel *A Critical Overview of Biological Functions* Justin Garson, 2016-03-30 This book is a critical survey of and guidebook to the literature on biological functions It ties in with current debates and developments and at the same time it looks back on the state of discourse in naturalized teleology prior to the 1970s It also presents three significant new proposals First it describes the generalized selected effects theory which is one version of the selected effects theory maintaining that the function of a trait consists in the activity that led to its differential persistence or reproduction in a population and not merely its differential reproduction Secondly it advances within discipline pluralism as opposed to between discipline pluralism a new form of function pluralism which emphasizes the coexistence of function concepts within diverse biological sub disciplines Lastly it provides a critical assessment of recent alternatives to the selected effects theory of function namely the weak etiological theory and the systems theoretic theory The book argues that to the extent that functions purport to offer causal explanations for the existence of a trait there are no viable alternatives to the selected effects view The debate about biological functions is still as relevant and important to biology and philosophy as it ever was Recent controversies surrounding the ENCODE Project Consortium in genetics the nature of psychiatric classification and the value of ecological restoration all point to the continuing relevance to biology of philosophical discussion about the nature of functions In philosophy ongoing debates about the nature of biological information intentionality health and disease mechanism and even biological trait classification are closely related to debates about biological functions [The Tools of Neuroscience Experiment](#) John Bickle, Carl F. Craver, Ann-Sophie Barwich, 2021-12-30 This volume establishes the conceptual foundation for sustained investigation into tool development in neuroscience Neuroscience relies on diverse and sophisticated experimental tools and its ultimate explanatory target our brains and hence the organ driving our behaviors catapults the investigation of these research tools into a philosophical spotlight The chapters in this volume integrate the

currently scattered work on tool development in neuroscience into the broader philosophy of science community They also present an accessible compendium for neuroscientists interested in the broader theoretical dimensions of their experimental practices The chapters are divided into five thematic sections Section 1 discusses the development of revolutionary research tools across neuroscience's history and argues to various conclusions concerning the relationship between new research tools and theory progress in neuroscience Section 2 shows how a focus on research tools and their development in neuroscience transforms some traditional epistemological issues and questions about knowledge production in philosophy of science Section 3 speaks to the most general questions about the way we characterize the nature of the portion of the world that this science addresses Section 4 discusses hybrid research tools that integrate laboratory and computational methods in exciting new ways Finally Section 5 extends research on tool development to the related science of genetics The Tools of Neuroscience Experiment will be of interest to philosophers and philosophically minded scientists working at the intersection of philosophy and neuroscience

The Explanatory Autonomy of the Biological Sciences Wei Fang, 2021-12-23 This book argues for the explanatory autonomy of the biological sciences It does so by showing that scientific explanations in the biological sciences cannot be reduced to explanations in the fundamental sciences such as physics and chemistry and by demonstrating that biological explanations are advanced by models rather than laws of nature To maintain the explanatory autonomy of the biological sciences the author argues against explanatory reductionism and shows that explanation in the biological sciences can be achieved without reduction Then he demonstrates that the biological sciences do not have laws of nature Instead of laws he suggests that biological models usually do the explanatory work To understand how a biological model can explain phenomena in the world the author proposes an inferential account of model explanation The basic idea of this account is that for a model to be explanatory it must answer two kinds of questions counterfactual dependence questions that concern the model itself and hypothetical questions that concern the relationship between the model and its target system The reason a biological model can answer these two kinds of questions is due to the fact that a model is a structure and the holistic relationship between the model and its target warrants the hypothetical inference from the model to its target and thus helps to answer the second kind of question The Explanatory Autonomy of the Biological Sciences will be of interest to researchers and advanced students working in philosophy of science philosophy of biology and metaphysics

Operationism in Psychology Uljana Feest, 2025-03-11 Analyzes psychological research to offer insights into how methodological and ontological questions are intertwined Psychology has seen an intense debate about the lack of replicability of results in recent years Uljana Feest uses history and philosophy of science to shed light on the nature of experiment in psychology in general but her aim reaches beyond debates about replication to provide a novel and comprehensive analysis of the investigative process in experimental psychology She shows that the central unit of analysis for our epistemological considerations of psychological research should be not theories but rather concepts Her guiding

question is How do psychological concepts figure in the experimental exploration of the objects of psychological research For Feest this question has two intertwined aspects What role do concepts play in the design of experiments and the production of data and how can concepts be revised or adapted in response to experimental results Following the historical trajectory of debates about operationism in psychology she argues that this debate was not concerned with philosophical theories of meaning but instead closely connected to the investigative practices of experimental psychologists The book offers a broad analytical framework for thinking philosophically about the investigative process in psychology including analyses of the relationship between data and phenomena in psychology the relationship between folk and scientific psychological concepts the relationship between genuine results and experimental artifacts and the nature and exploration of psychological kinds

The Oxford Handbook of Moral Realism Paul Bloomfield, David Copp, 2023 Morality seems to play a special role in human life distinct from conventional norms like those of etiquette or simple preferences based on subjective tastes There are various theories of the foundations of morality some of which treat morality as subjective in an important way Moral realism is however a family of theories that take morality to have an objective factual basis such that morality is not up to us and is not under our control The contributions in this Oxford Handbook explore the central ideas and themes constituting moral realism and defend particular views about it

Models and Idealizations in Science Alejandro Cassini, Juan Redmond, 2021-05-27 This book provides both an introduction to the philosophy of scientific modeling and a contribution to the discussion and clarification of two recent philosophical conceptions of models artifactualism and fictionalism These can be viewed as different stances concerning the standard representationalist account of scientific models By better understanding these two alternative views readers will gain a deeper insight into what a model is as well as how models function in different sciences Fictionalism has been a traditional epistemological stance related to antirealist construals of laws and theories such as instrumentalism and inferentialism By contrast the more recent fictional view of models holds that scientific models must be conceived of as the same kind of entities as literary characters and places This approach is essentially an answer to the ontological question concerning the nature of models which in principle is not incompatible with a representationalist account of the function of models The artifactual view of models is an approach according to which scientific models are epistemic artifacts whose main function is not to represent the phenomena but rather to provide epistemic access to them It can be conceived of as a non representationalist and pragmatic account of modeling which does not intend to focus on the ontology of models but rather on the ways they are built and used for different purposes The different essays address questions such as the artifactual view of idealization the use of information theory to elucidate the concepts of abstraction and idealization the deidealization of models the nature of scientific fictions the structural account of representation and the ontological status of structures the role of surrogate reasoning with models and the use of models for explaining and predicting physical phenomena

Science without Laws Angela N. H. Creager, Elizabeth Lunbeck, M.

Norton Wise,2007-09-03 A comparison of the use of model systems and exemplary cases across fields in the natural and social sciences

Reductive Explanation in the Biological Sciences Marie I. Kaiser,2015-12-16 This book develops a philosophical account that reveals the major characteristics that make an explanation in the life sciences reductive and distinguish them from non reductive explanations Understanding what reductive explanations are enables one to assess the conditions under which reductive explanations are adequate and thus enhances debates about explanatory reductionism The account of reductive explanation presented in this book has three major characteristics First it emerges from a critical reconstruction of the explanatory practice of the life sciences itself Second the account is monistic since it specifies one set of criteria that apply to explanations in the life sciences in general Finally the account is ontic in that it traces the reductivity of an explanation back to certain relations that exist between objects in the world such as part whole relations and level relations rather than to the logical relations between sentences Beginning with a disclosure of the meta philosophical assumptions that underlie the author s analysis of reductive explanation the book leads into the debate about reductionism in the philosophy of biology and continues with a discussion on the two perspectives on explanatory reduction that have been proposed in the philosophy of biology so far The author scrutinizes how the issue of reduction becomes entangled with explanation and analyzes two concepts the concept of a biological part and the concept of a level of organization The results of these five chapters constitute the ground on which the author bases her final chapter developing her ontic account of reductive explanation

Conservative Reductionism Michael Esfeld,2011 Conservative Reductionism sets out a new theory of the relationship between physics and the special sciences within the framework of functionalism It argues that it is wrong headed to conceive an opposition between functional and physical properties or functional and physical descriptions respectively and to build an anti reductionist argument on multiple realization By contrast a all properties that there are in the world including the physical ones are functional properties in the sense of being causal properties and b all true descriptions laws theories that the

Neurocognitive Mechanisms Gualtiero Piccinini,2020 Gualtiero Piccinini presents a systematic and rigorous philosophical defence of the computational theory of cognition His view posits that cognition involves neural computation within multilevel neurocognitive mechanisms and includes novel ideas about ontology functions neural representation neural computation and consciousness

The Matter of the Mind Maurice Schouten,Huib Looren de Jong,2012-05-07 The Matter of the Mind addresses and illuminates the relationship between psychology and neuroscience by focusing on the topic of reduction Written by leading philosophers in the field Discusses recent theorizing in the mind brain sciences and reviews and weighs the evidence in favour of reductionism against the backdrop of recent important advances within psychology and the neurosciences Collects the latest work on central topics where neuroscience is now making inroads in traditional psychological terrain such as adaptive behaviour reward systems consciousness and social cognition

Revisiting Discovery and Justification Jutta Schickore,Friedrich Steinle,2006-04-18 The distinction between the

contexts of discovery and justification has had a turbulent career in philosophy of science At times celebrated as the hallmark of philosophical approaches to science at times condemned as ambiguous distorting and misleading the distinction dominated philosophical debates from the early decades of the twentieth century to the 1980s Until today it informs our conception of the content domain and goals of philosophy of science It is due to this fact that new trends in philosophy of experimentation and history and sociology of science have been marginalized by traditional scholarship in philosophy To acknowledge properly this important recent work we need to re open the debate about the nature development and significance of the context distinction about its merits and flaws The contributions to this volume provide close readings and detailed analyses of the original textual sources for the context distinction They revise those accounts of forerunners of the distinction that have been written through the lens of Logical Empiricism They map clarify and analyse the derivations and mutations of the context distinctions as we encounter them in current history and philosophy of science The re evaluation of the distinction helps us deal with the philosophical challenges that the New Experimentalism and historically socio politically and economically oriented science studies have placed before us This volume thus clears the ground for the productive and fruitful integration of these new developments into philosophy of science *Hermeneutic Realism* Dimitri Ginev, 2016-08-24

This study recapitulates basic developments in the tradition of hermeneutic and phenomenological studies of science It focuses on the ways in which scientific research is committed to the universe of interpretative phenomena It treats scientific research by addressing its characteristic hermeneutic situations and uses the following basic argument in this treatment By demonstrating that science s epistemological identity is not to be spelled out in terms of objectivism mathematical essentialism representationalism and foundationalism one undermines scientism without succumbing scientific research to procedures of normative democratic control that threaten science s cognitive autonomy The study shows that in contrast to social constructivism hermeneutic phenomenology of scientific research makes the case that overcoming scientism does not imply restrictive policies regarding the constitution of scientific objects *Towards a Theory of Development* Alessandro Minelli, Thomas Pradeu, 2014-05-01

Is it possible to explain and predict the development of living things What is development Articulate answers to these seemingly innocuous questions are far from straightforward To date no systematic targeted effort has been made to construct a unifying theory of development This novel work offers a unique exploration of the foundations of ontogeny by asking how the development of living things should be understood It explores the key concepts of developmental biology asks whether general principles of development can be discovered and examines the role of models and theories The two editors one a biologist with long interest in the theoretical aspects of his discipline the other a philosopher of science who has mainly worked on biological systems have assembled a team of leading contributors who are representative of the scientific and philosophical community within which a diversity of thoughts are growing and out of which a theory of development may eventually emerge They analyse a wealth of approaches to concepts models and theories

of development such as gene regulatory networks accounts based on systems biology and on physics of soft matter the different articulations of evolution and development symbiont induced development as well as the widely discussed concepts of positional information and morphogenetic field the idea of a programme of development and its critiques and the long standing opposition between preformationist and epigenetic conceptions of development Towards a Theory of Development is primarily aimed at students and researchers in the fields of evo devo developmental biology theoretical biology systems biology biophysics and the philosophy of science

Biological Robustness Marta Bertolaso, Silvia Caianiello, Emanuele Serrelli, 2019-01-04 This volume reviews examples and notions of robustness at several levels of biological organization It tackles many philosophical and conceptual issues and casts an outlook on the future challenges of robustness studies in the context of a practice oriented philosophy of science The focus of discussion is on concrete case studies These highlight the necessity of a level dependent description of robust biological behaviors Experts from the neurosciences biochemistry ecology biology and the history and the philosophy of life sciences provide a multiplex perspective on the topic Contributions span from protein folding to cell level robustness to organismal and developmental robustness to sensorimotor systems up to the robustness of ecological systems Several chapters detail neurobiological case studies The brain the poster child of plasticity in biology offers multiple examples of robustness Neurobiology explores the importance of temporal organization and multiscalarity in making this robustness with plasticity possible The discussion also includes structures well beyond the brain such as muscles and the complex feedback loops involved in the peculiar robustness of music perception Overall the volume grounds general reflections upon concrete case studies opening to all the life sciences but also to non biological and bio inspired fields such as post modern engineering It will appeal to researchers students as well as non expert readers

Levels of Organization in the Biological Sciences Daniel S. Brooks, James DiFrisco, William C. Wimsatt, 2021-08-24 Scientific philosophers examine the nature and significance of levels of organization a core structural principle in the biological sciences This volume examines the idea of levels of organization as a distinct object of investigation considering its merits as a core organizational principle for the scientific image of the natural world It approaches levels of organization roughly the idea that the natural world is segregated into part whole relationships of increasing spatiotemporal scale and complexity in terms of its roles in scientific reasoning as a dynamic open ended idea capable of performing multiple overlapping functions in distinct empirical settings The contributors scientific philosophers with longstanding ties to the biological sciences discuss topics including the philosophical and scientific contexts for an inquiry into levels whether the concept can actually deliver on its organizational promises the role of levels in the development and evolution of complex systems conditional independence and downward causation and the extension of the concept into the sociocultural realm Taken together the contributions embrace the diverse usages of the term as aspects of the big picture of levels of organization Contributors Jan Baedke Robert W Batterman Daniel S Brooks James DiFrisco Markus I Eronen Carl Gillett Sara

Green James Griesemer Alan C Love Angela Potochnik Thomas Reydon Ilya T mkin Jon Umerez William C Wimsatt James Woodward Discovering Complexity William Bechtel, Robert C. Richardson, 2010-08-06 An analysis of two heuristic strategies for the development of mechanistic models illustrated with historical examples from the life sciences In Discovering Complexity William Bechtel and Robert Richardson examine two heuristics that guided the development of mechanistic models in the life sciences decomposition and localization Drawing on historical cases from disciplines including cell biology cognitive neuroscience and genetics they identify a number of choice points that life scientists confront in developing mechanistic explanations and show how different choices result in divergent explanatory models Describing decomposition as the attempt to differentiate functional and structural components of a system and localization as the assignment of responsibility for specific functions to specific structures Bechtel and Richardson examine the usefulness of these heuristics as well as their fallibility the sometimes false assumption underlying them that nature is significantly decomposable and hierarchically organized When Discovering Complexity was originally published in 1993 few philosophers of science perceived the centrality of seeking mechanisms to explain phenomena in biology relying instead on the model of nomological explanation advanced by the logical positivists a model Bechtel and Richardson found to be utterly inapplicable to the examples from the life sciences in their study Since then mechanism and mechanistic explanation have become widely discussed In a substantive new introduction to this MIT Press edition of their book Bechtel and Richardson examine both philosophical and scientific developments in research on mechanistic models since 1993

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