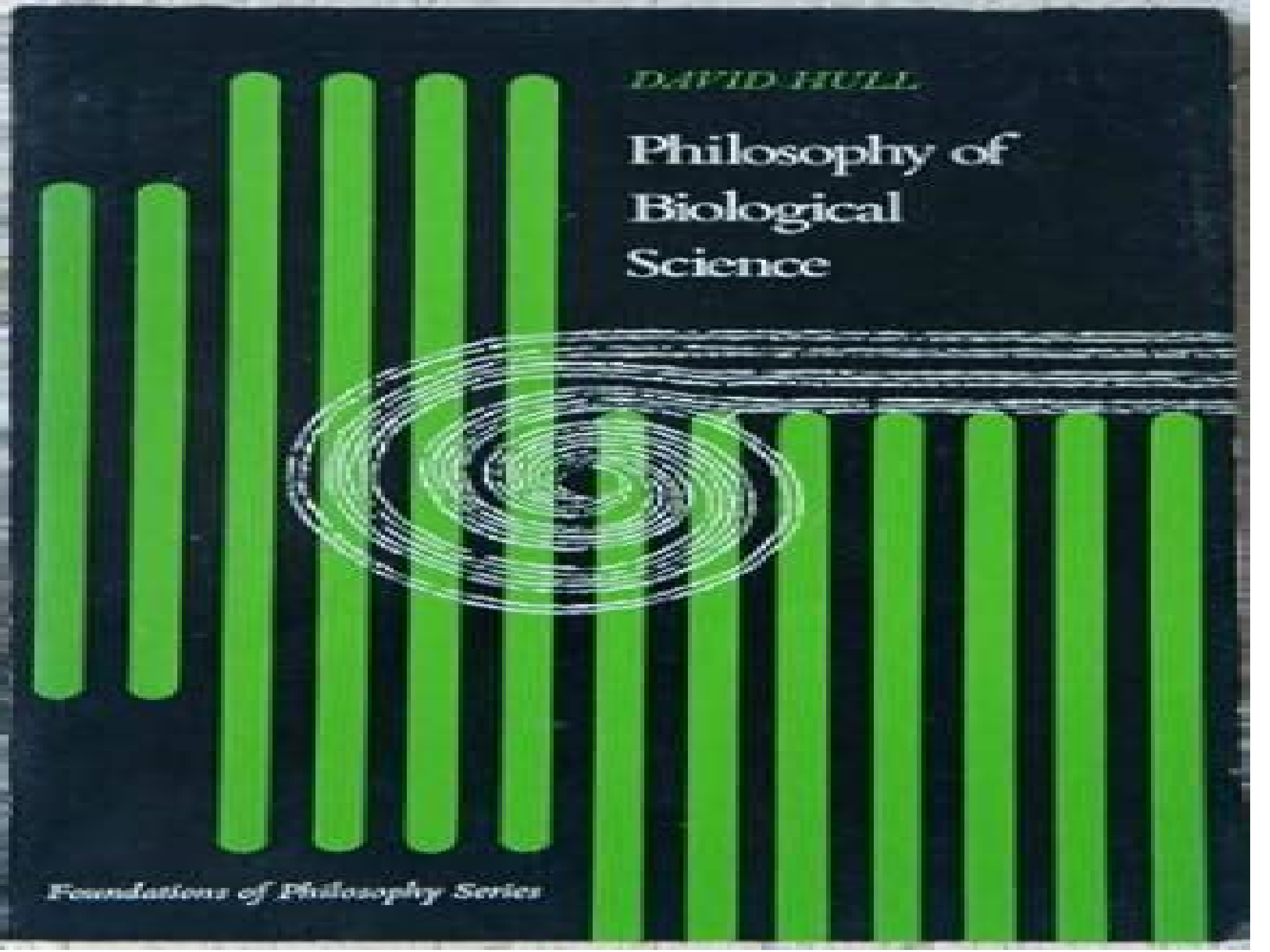
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Philosophy Of Biological Science

Alexander Rosenberg

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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 **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 ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Philosophy of Science for Biologists** Kostas Kampourakis,Tobias Uller,2020-09-24 A short and accessible introduction to philosophy of science for students and researchers across the life sciences **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 **Concepts, Theories, and Rationality in the Biological Sciences** Gereon Wolters,2022-05-31 A Unified Report on the State of the Art in the Philosophy of Biology In October 1993 the University of Pittsburgh hosted the Second Pittsburgh Konstanz Colloquium in the Philosophy of Science with a focus on the rapidly growing field of philosophy of biology An interdisciplinary group of philosophers and scientists came together to discuss the basic theories and concepts of biology and their connections with ethics economics and psychology The colloquium organizers strove to create an event that would provide attendees with a wide overview on the current state of the philosophy of biology with as many topics and views on these topics as possible Those presentations are gathered here in a volume that offers the reader a varied and thorough survey of the field *Contemporary Debates in Philosophy of Biology* Francisco J. Ayala,Robert Arp,2009-12-07 This collection of specially commissioned essays puts top scholars head to head to debate the central issues in the lively and fast growing field of philosophy of biology Brings together original essays on ten of the most hotly debated questions in philosophy of biology Lively head to head debate format sharply defines the issues and paves the way for further discussion Includes coverage of the new and vital area of evolutionary developmental biology as well as the concept of a unified species the role of genes in selection the differences between micro and macro evolution and much more Each section features an introduction to the topic as well as suggestions for further reading Offers an accessible overview of this fast growing and dynamic field whilst also capturing the imagination of professional philosophers and biologists *The Metaphysics of Evolution* David L. Hull,1989-11-14 This critical collection of essays represents the best of the best when it comes to philosophy of biology Many chapters treat evolution as a biological phenomenon but the author is more generally concerned with science itself Present day science particularly current views on systematics and biological evolution are investigated The aspects of these sciences that are relevant to the general analysis of selection processes are presented and they also serve to exemplify the general characteristics exhibited by science since its inception

Philosophy of Biological Science David L. Hull,1974 The Structure of Biological Science Alexander Rosenberg,1985-01-25 This book provides a comprehensive guide to the conceptual methodological and epistemological problems of biology and treats in depth the major developments in molecular biology and evolutionary theory that have transformed both biology and its philosophy in recent decades At the same time the work is a sustained argument for a particular philosophy of biology that unifies disparate issues and offers a framework for expectations about the future directions of the life sciences The argument explores differences between autonomist and anti autonomist views of biology The result is a vindication of reductionism but one that is unexpectedly hollow For it leaves the exponents of the autonomy of biology from physical science with as much as their view of biology really requires and rather more than the reductionist might comfortably concede Professor Rosenberg shows how the problems of the philosophy of biology are interconnected

and how their solutions are interdependent However this book focuses more on the direct concerns of biologists rather than the traditional agenda of philosophers problems about biology This departure from earlier books on the subject results both in greater understanding and relevance of the philosophy of science to biology as a whole *Evolution, Explanation, Ethics and Aesthetics* Francisco J. Ayala,2016-07-21 Evolution Explanation Ethics and Aesthetics Towards a Philosophy of Biology focuses on the dominant biological topic of evolution It deals with the prevailing philosophical themes of how to explain the adaptation of organisms the interplay of chance and necessity and the recurrent topics of emergence reductionism and progress In addition the extensively treated topic of how to explain human nature as a result of natural processes and the encompassed issues of the foundations of morality and the brain to mind transformation is discussed The philosophy of biology is a rapidly expanding field not more than half a century old at most and to a large extent is replacing the interest in the philosophy of physics that prevailed in the first two thirds of the twentieth century Few texts available have the benefit of being written by an eminent biologist who happens to be also a philosopher as in this work This book is a useful resource for seminar courses and college courses on the philosophy of biology Researchers academics and students in evolutionary biology behavior genetics and biodiversity will also be interested in this work as will those in human biology and issues such as ethics religion and the human mind along with professional philosophers of science and those concerned with such issues as whether evolution is compatible with religion and or where morality comes from Presents the unique perspective of a distinguished biologist with extensive experience in the field who has published much about the subject in a wide variety of journals and edited volumes Covers the philosophical issues related to evolution and biology in an approachable and readable style Includes the most up to date treatment of this burgeoning exciting field within biology Provides the ideal guide for researchers academics and students in evolutionary biology behavior genetics and biodiversity The Philosophy of Biology David L. Hull,Michael Ruse,1998 The aim of this series is to bring together important recent writings in major areas of philosophical inquiry selected from a variety of sources mostly periodicals which may not be conveniently available to the university student or the general reader The editors of each volume contribute an introductory essay on the items chosen and on the questions with which they deal A selective bibliography is appended as a guide to further reading The philosophy of biology today is one of the most exciting areas in philosophical inquiry Drawing on work of the past decade this volume brings together articles from the philosophy history and sociology of science as well as many branches of the biological sciences to consider issues including the nature of evolutionary theory biology and ethics the challenge from religion and the social implications of biology today in particular the Human Genome Project The 36 articles in this collection are divided into 10 parts each with an introduction by the editors Spanning issues from epistemology across to ethics the volume delves into the latest theoretical controversies as well as burning questions of contemporary social importance Throughout the volume an attempt is made to offer positions from different perspectives so that the reader will be challenged as well as informed

The Philosophy of Biology will be essential and fascinating reading for students of philosophy and biology as well as the general reader with an interest in the natural sciences and evolution **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 reduction ism 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 *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 *Conceptual Change in Biology* Alan C. Love,2014-11-07 This volume explores questions about conceptual change from both scientific and philosophical viewpoints by analyzing the recent history of evolutionary developmental biology It features revised papers that originated from the workshop Conceptual Change in Biological Science Evolutionary Developmental Biology 1981 2011 held at the Max Planck Institute for the History of Science in Berlin in July 2010 The Preface has been written by Ron Amundson In these papers philosophers and biologists compare and contrast key concepts in evolutionary developmental biology and their development since the original seminal Dahlem

conference on evolution and development held in Berlin in 1981 Many of the original scientific participants from the 1981 conference are also contributors to this new volume and in conjunction with other expert biologists and philosophers specializing on these topics provide an authoritative comprehensive view on the subject Taken together the papers supply novel perspectives on how and why the conceptual landscape has shifted and stabilized in particular ways yielding insights into the dynamic epistemic changes that have occurred over the past three decades This volume will appeal to philosophers of biology studying conceptual change evolutionary developmental biologists focused on comprehending the genesis of their field and evaluating its future directions and historians of biology examining this period when the intersection of ev olution and development rose again to prominence in biological science History and Philosophy of Biology Robert H. Kretsinger,2015 History and Philosophy of Biology summarizes the major philosophical ideas that have attended the development of science in general and of biology in particular The book then explores how the techniques and the concepts of the physical sciences have impacted biology A reductionist approach to biology anatomy physiology genetics complements the study of evolution by natural selection and an ecological perspective The final section of the book explores several examples of the influence of science on society and of society on science Each of 46 chapters of History and Philosophy of Biology has been or could be the topic of a major tome The book is unique in that it explores the web of interactions among issues of philosophy techniques and concepts of the physical sciences fields of biology and the diverse relationships between society and science The book should appeal to readers of Scientific American or the New York Review of Books even if they are not trained biologists It is a good text or additional reading for an advanced undergraduate course treating history and or philosophy of biology or of science in general **Investigating the Life Sciences** G. M. N. Verschuuren,2016-07-29 A unique introduction to the philosophy of science with special emphasis on the life sciences Part I presents elementary but fundamental concepts and problems in epistemology and their relation to questions of scientific methodology Part II deals with case studies from the history of biology which illustrate particular philosophical points while Part III progresses to more complex ideas as on the nature and methodology of science Part IV discusses the limitations of scientific enquiry and its relations to other systems of knowledge and interpretation **The Structure of Biological Science** Alexander Rosenberg,1985-01-25 Preface p ix Chapter 1 Biology and Its Philosophy p 2 1 1 The Rise of Logical Positivism p 2 1 2 The Consequences for Philosophy p 4 1 3 Problems of Falsifiability p 6 1 4 Philosophy of Science Without Positivism p 8 1 5 Speculation and Science p 10 Introduction to the Literature p 11 Chapter 2 Autonomy and Provincialism p 13 2 1 Philosophical Agendas versus Biological Agendas p 13 2 2 Motives for Provincialism and Autonomy p 18 2 3 Biological Philosophies p 21 2 4 Tertium Datur p 25 2 5 The Issues in Dispute p 30 2 6 Steps in the Argument p 34 Introduction to the Literature p 35 Chapter 3 Teleology and the Roots of Autonomy p 37 3 1 Functional Explanations in Molecular Biology p 39 3 2 The Search for Functions p 43 3 3 Functional Laws p 47 3 4 Directively Organized Systems p 52 3 5 The Autonomy of

Teleological Laws p 59 3 6 The Metaphysics and Epistemology of Functional Explanation p 62 3 7 Functional Explanation Will Always Be with Us p 65 Introduction to the Literature p 67 Chapter 4 Reductionism and the Temptation of Provincialism p 69 4 1 Motives for Reductionism p 69 4 2 A Triumph of Reductionism p 73 4 3 Reductionism and Recombinant DNA p 84 4 4 Antireductionism and Molecular Genetics p 88 4 5 Mendel s Genes and Benzer s Cistrons p 93 4 6 Reduction Obstructed p 97 4 7 Qualifying Reductionism p 106 4 8 The Supervenience of Mendelian Genetics p 11 4 9 Levels of Organization p 117 Introduction to the Literature p 119 Chapter 5 The Structure of Evolutionary Theory p 121 5 1 Is There an Evolutionary Theory p 122 5 2 The Charge of Tautology p 126 5 3 Population Genetics and Evolution p 130 5 4 Williams s Axiomatization of Evolutionary Theory p 136 5 5 Adequacy of the Axiomatization p 144 Introduction to the Literature p 152 Chapter 6 Fitness p 154 6 1 Fitness Is Measured by Its Effects p 154 6 2 Fitness As a Statistical Propensity p 160 6 3 The Supervenience of Fitness p 164 6 4 The Evidence for Evolution p 169 6 5 The Scientific Context of Evolutionary Theory p 174 Introduction to the Literature p 179 Chapter 7 Species p 180 7 1 Operationalism and Theory in Taxonomy p 182 7 2 Essentialism For and Against p 187 7 3 The Biological Species Notion p 191 7 4 Evolutionary and Ecological Species p 197 7 5 Species Are Not Natural Kinds p 201 7 6 Species As Individuals p 204 7 7 The Theoretical Hierarchy of Biology p 212 7 8 The Statistical Character of Evolutionary Theory p 216 7 9 Universal Theories and Case Studies p 219 Introduction to the Literature p 225 Chapter 8 New Problems of Functionalism p 226 8 1 Functionalism in Molecular Biology p 228 8 2 The Panglossian Paradigm p 235 8 3 Aptations Exaptations and Adaptations p 243 8 4 Information and Action Among the Macromolecules p 246 8 5 Metaphors and Molecules p 255 Bibliography p 266 Index p 273 **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 *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 Philosophy of Biology Alex Rosenberg,Daniel W. McShea,2007-12-19 Is life a purely physical process What is human nature Which of our traits is essential to us In this volume Daniel McShea and Alex Rosenberg a biologist and a philosopher respectively join forces to create a new gateway to the philosophy of biology making the major issues accessible and relevant to biologists and philosophers alike Exploring concepts such as supervenience the controversies about genocentrism and genetic determinism and the debate about major transitions central to contemporary thinking about macroevolution the authors lay out the broad terms in which we should assess the impact of biology on human capacities social institutions and ethical values

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Philosophy Of Biological Science**

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