



# BIOLOGY

# Elements Of Biological Science

**William T. Keeton, Mary  
Philpott, Michael W. Dabney**



## Elements Of Biological Science:

**Elements of Biological Science** William T. Keeton, 1973-01-01      Elements of Biological Science William T. Keeton, Carol Hardy McFadden, 1983      **Study Guide for the Third Edition of Keeton and McFadden's Elements of Biological Science** Carol Hardy McFadden, William T. Keeton, 1983      **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      Metallomics Yasumitsu Ogra, Takafumi Hirata, 2017-03-01 This book focuses on recent topics in metallomics a study of the metallome or metal containing biomolecules Metals can induce various physiological and toxicological effects in a very small amounts in other

words the concentrations of biometals are very low in organisms Thus analytical techniques for a trace amount of metal are crucial to understand the biological and toxicological functions of metals This volume begins with an overview of metallomics including the history and development of the field Subsequent parts provide basic and advanced techniques for metallomics Speciation and imaging of metals are basic approaches to reveal the function of the metallome The applications of speciation using an HPLC hyphenated with inductively coupled plasma mass spectrometry LC ICP MS and flow cytometry ICP MS are described As advanced approaches the applications using a micro flow injection ICP MS an ICP triple quadrupole mass spectrometer an ICP sector field mass spectrometer and an ICP multi collector mass spectrometer are mentioned For the imaging of metals basic principles and applications of several techniques such as scanning X ray fluorescence microscopy and ICP MS equipped with laser ablation LA ICP MS are presented Speciation analyses using electrospray ionization mass spectrometry ESI MS X ray Absorption Spectroscopy XAS and nuclear magnetic resonance spectroscopy NMR are also introduced The last part highlights the medical and pharmaceutical applications of metallomics Molecular biological approaches to reveal the effects of toxic metals metal functions in brain and neurodegenerative diseases and metallodrugs are explained The topic of metal transporters is also presented

Elements of Physical Biology Alfred James Lotka, 1925  
General principles Kinetics Statics Dynamics *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

**Analysis of Biological Networks** Björn H. Junker, Falk Schreiber, 2011-09-20 An introduction to biological networks and methods for their analysis Analysis of Biological Networks is the first book of its kind to provide readers with a comprehensive introduction to the structural analysis of biological networks at the interface of biology and computer science The book begins with a brief overview of biological networks and

graph theory graph algorithms and goes on to explore global network properties network centralities network motifs network clustering Petri nets signal transduction and gene regulation networks protein interaction networks metabolic networks phylogenetic networks ecological networks and correlation networks Analysis of Biological Networks is a self contained introduction to this important research topic assumes no expert knowledge in computer science or biology and is accessible to professionals and students alike Each chapter concludes with a summary of main points and with exercises for readers to test their understanding of the material presented Additionally an FTP site with links to author provided data for the book is available for deeper study This book is suitable as a resource for researchers in computer science biology bioinformatics advanced biochemistry and the life sciences and also serves as an ideal reference text for graduate level courses in bioinformatics and biological research

**Biological Investigations in the Laboratory** William T. Keeton, Mary Philpott, Michael W. Dabney, 1987-06-01 [X-Ray Fluorescence in Biological Sciences](#) Vivek K. Singh, Jun Kawai, Durgesh K. Tripathi, 2022-03-28 X Ray Fluorescence in Biological Sciences Discover a comprehensive exploration of X ray fluorescence in chemical biology and the clinical and plant sciences In X Ray Fluorescence in Biological Sciences Principles Instrumentation and Applications a team of accomplished researchers delivers extensive coverage of the application of X ray fluorescence XRF in the biological sciences including chemical biology clinical science and plant science The book also explores recent advances in XRF imaging techniques in these fields The authors focus on understanding and investigating the intercellular structures and metals in plant cells with advanced discussions of recently developed micro analytical methods like energy dispersive X ray fluorescence spectrometry EDXRF total reflection X ray fluorescence spectrometry TXRF micro proton induced X ray emission micro PIXE electron probe X ray microanalysis EPXMA synchrotron based X ray fluorescence microscopy SXRF SRIXE or micro XRF and secondary ion mass spectrometry SIMS With thorough descriptions of protocols and practical approaches the book also includes A thorough introduction to the historical background and fundamentals of X ray fluorescence as well as recent developments in X ray fluorescence analysis Comprehensive explorations of the general properties production and detection of X rays and the preparation of samples for X ray fluorescence analysis Practical discussions of the quantification of prepared samples observed under X ray fluorescence and the relation between precision and beam size and sample amount In depth examinations of wavelength dispersive X ray fluorescence and living materials Perfect for students and researchers studying the natural and chemical sciences medical biology plant physiology agriculture and botany X Ray Fluorescence in Biological Sciences Principles Instrumentation and Applications will also earn a place in the libraries of researchers at biotechnology companies

**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.

*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.

*Plant Metallomics and Functional Omics* Gaurav Sablok, 2019-07-04. Major portion of the planet earth is covered by seas and oceans representing 96.5% of the planet's water, playing a detrimental role in sustaining the plant including crop diversity and productivity for human consumption. Water resources contain both soluble and transition metals which are easily absorbed by plants through roots as a first point of contact and subsequently play important physiological and biological functions in plants. Transition metals such as copper (Cu), iron (Fe), manganese (Mn) and zinc (Zn) contribute to the plant productivity by playing key functional roles in the photosynthesis. In addition to their major role in

regulating the plant productivity they also play an important role by acting as homeostatic regulators in uni parentally inherited chloroplasts and maintains the flow of the electron transfer It is worthwhile to mention that they play a critical role as transporters which acts as electron balancing units for managing the electrostatic potential across the membranes In contrast some metals such as Cd As play a significant role in inducing the stress mechanism and influencing either directly or in directly Haber Weiss reactions either through the production of the reactive oxygen species ROS or through the membrane damage thus leading to leakage of membrane transporters However besides playing a detrimental role as transporters in plant system excessive accumulation of these metals due to the increasing contamination in the marginal soil and water are posing important threats to the plant system Realizing the toxic effects of the metals several physiological evidences have been laid for the credence of the metal toxicity and their concurrent effect on plant productivity Increasing effects of the metals as toxicants can have three adverse effects on the populations population can move persist via local adaptation or phenotypic plasticity or die Next generation sequencing studies have revolutionized our abilities to detect the changes in expression profiles across an array of genes which can in turn help to develop early markers of metal induced stress Plant Metallomics and Functional Omics A System Wide Perspective focuses on the applications of the system wide understanding of the biological and functional interplay occurring at the juncture of the metalloid induced stress and toxicity The main goal of this book is to familiarize the readers with the most up to date information on metal induced physiological changes in plant species

*Foundations of Chemistry - I* Mr. Rohit Manglik, 2024-03-09 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Biotechnology and Biological Sciences Ramkrishna Sen, Susmita Mukherjee, Rajashree Paul, Rajiv Narula, 2019-11-20 The application of Biotechnology dates back to the early era of civilization when people first started to cultivate food crops While the early applications are certainly still relevant modern biotechnology is primarily associated with molecular biology cloning and genetic engineering not only to increase the yield and to improve the quality of the crop but also its potential impact has touched upon virtually all domains of human interactions Within the last 50 years several key scientific discoveries revolutionized the biological sciences that facilitated the rapid growth of the biotechnology industry Biotechnology and Biological Sciences III contains the contributions presented at the 3rd International Conference on Biotechnology and Biological Sciences BIOSPECTRUM 2019 Kolkata India 8 10 August 2019 The papers discuss various aspects of Biotechnology such as microbial biotechnology bioinformatics and drug designing innovations in pharmaceutical industries and food processing industries bioremediation nano biotechnology and molecular genetics and will be of interest to academics and professionals involved or interested in these subject areas

Biological Science William T. Keeton, 1972 Shortened version of this work was published in 1969 under title Elements of

biological science      *Nuclear Science Abstracts* ,1975      **BIOLOGICAL SCIENCE FUNDAMENTALS AND SYSTEMATICS - Volume IV** Alessandro Minelli ,Giancarlo Contrafatto ,2009-11-10 Biological Science Fundamentals and Systematics is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Biological Science Fundamentals and Systematics provides the essential aspects and a myriad of issues of great relevance to our world such as History and Scope of Biological Sciences The Origin and Evolution of Early Life Evolution Classification and Diversity of Life Forms Systematics of Microbial Kingdom s and Fungi Systematic Botany Systematic Zoology Invertebrates Systematic Zoology Vertebrates which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs      **Biology of Aging** Roger B. McDonald,2019-06-07 Biology of Aging Second Edition presents the biological principles that have led to a new understanding of the causes of aging and describes how these basic principles help one to understand the human experience of biological aging longevity and age related disease Intended for undergraduate biology students it describes how the rate of biological aging is measured explores the mechanisms underlying cellular aging discusses the genetic pathways that affect longevity in various organisms outlines the normal age related changes and the functional decline that occurs in physiological systems over the lifespan and considers the implications of modulating the rate of aging and longevity The book also includes end of chapter discussion questions to help students assess their knowledge of the material Roger McDonald received his Ph D from the University of Southern California and is Professor Emeritus in the Department of Nutrition at the University of California Davis Dr McDonald s research focused on mechanisms of cellular aging and the interaction between nutrition and aging His research addressed two key topics in the field the relationship between dietary restriction and lifespan and the effect of aging on circadian rhythms and hypothalamic regulation You can contact Dr McDonald at [rbrmcdonald@ucdavis.edu](mailto:rbrmcdonald@ucdavis.edu) Related Titles Ahmad S I ed Aging Exploring a Complex Phenomenon ISBN 978 1 1381 9697 1 Moody H R J Sasser Gerontology The Basics ISBN 978 1 1387 7582 4 Timiras P S Physiological Basis of Aging and Geriatrics ISBN 978 0 8493 7305 3      Office of Science and Technology policy United States. Congress. House. Committee on Appropriations. Subcommittee on HUD-Independent Agencies,1985



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