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Problems in Human Biology

The NEW Origin of Species

Concepts of Biology

The Science of Biology

Tracing the History of Eukaryotic Cells

The Logic of Discovery

Studies in the Origins of Life Science

The Origin Of Individuals

Life

Issues in Life Sciences: Cellular Biology: 2011 Edition

A Theory of the Rationality of Scientific Research

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1965 NASA Authorization

From Chemical Origins to Synthetic Biology

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The Emergence of Life

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Investigating Life on Earth

Proceedings of a Conference Held at the Centro Linceo Interdisciplinare, Accademia Nazionale dei Lincei, Rome December 17 - 21, 1979

The Biology and Psychology of Moral Agency

The Philosophy of Biology

History of Research in Space Biology and Biodynamics at the Air Force Missile Development Center, Holloman Air Force Base, New Mexico, 1946-1958

Beyond Race

Molecular Biology of the Cell

Aristotle's Philosophy of Biology

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CIERRA BETHANY

Self-generation Oxford University Press

Scientific research is viewed as a deliberate activity and the logic of discovery consists of strategies and arguments whereby the best objectives (questions) and optimal means for achieving these objectives (heuristics) are chosen. This book includes a discussion and some proposals regarding the way the logic of questions can be applied to understanding scientific research and draws upon work in artificial intelligence in a discussion of heuristics and methods for appraising heuristics (metaheuristics). It also includes a discussion of a third source for scientific objectives and heuristics; episodes and exemplars from the history of science and the history of philosophy. This book is written to be accessible to advanced students in philosophy and to the scientific community. It is of interest to philosophers of science, philosophers of biology, historians of physics, and historians of biology.

Vito Volterra Symposium on Mathematical Models in Biology CRC Press

An exploration of the ethical issues at the foundations of environmental philosophy challenges attempts to attribute intrinsic value to nature and covers such topics as problems of prediction in traditional ecology and the future directions for theoretical research in environmental philosophy and conservation biology.

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The guide offers clearly defined learning objectives, summaries of key concepts, references to Life and to the student Web/CD-ROM, and review and exam-style self-test questions with answers and explanations.

Biology, Philosophy, and Literature Around 1800 Transaction Publishers

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Parallel Paths: A Study in Biology, Ethics, and Art Oswaal Books and Learning Private Limited

The papers collected in this 2001 volume focus on Aristotle's systematic investigation of animals.

Problems in Human Biology Stanford University Press

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The NEW Origin of Species Cambridge University Press

In the 17th century, Descartes put forth the metaphor of the machine to explain the functioning of living beings. In the 18th century, La Mettrie extended the metaphor to man. The clock was then used as the paradigm of the machine. In the 20th century, this metaphor still held but the clock was replaced by a computer. Nowadays, the organism is viewed as a robot obeying signals emanating from a computer program controlled by genetic information. This book shows that such a conception leads to contradictions not only in the theory of biology but also in its experimental research program, thereby impeding its development. The analysis of this problem is based on the most recent experimental data obtained in molecular biology as well as the history and philosophy of biology. It shows that the machine theory did not succeed in breaking with Aristotle's finalism. The book presents a new approach to biological systems based on cellular Darwinism. Genes are ruled

by probabilistic mechanisms allowing cells to differentiate stochastically. Embryo development is not governed by a determinist genetic program but by natural selection occurring among cell populations inside the organism. This theory has considerable philosophical consequences. Man may be a machine but he is a random one.

Concepts of Biology Macmillan

Authoritative, thorough, and engaging, *Life: The Science of Biology* achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, *Life* covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

The Science of Biology CRC Press

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.

Tracing the History of Eukaryotic Cells Cambridge University Press

Full four-color book. Some of the editors created the Bioconductor project and Robert Gentleman is one of the two originators of R. All methods are illustrated with publicly available data, and a major section of the book is devoted to fully worked case studies. Code underlying all of the computations that are shown is made available on a companion website, and readers can reproduce every number, figure, and table on their own computers.

The Logic of Discovery Aristotle's Philosophy of Biology Studies in the Origins of Life Science

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Studies in the Origins of Life Science New Leaf Publishing Group

The use of statistics is fundamental to many endeavors in biology and geology. For students and professionals in these fields, there is no better way to build a statistical background than to present the concepts and techniques in a context relevant to their interests. *Statistics with Applications in Biology and Geology* provides a practical introduction to using fundamental parametric statistical models frequently applied to data analysis in biology and geology. Based on material developed for an introductory statistics course and classroom tested for nearly 10 years, this treatment establishes

a firm basis in models, the likelihood method, and numeracy. The models addressed include one sample, two samples, one- and two-way analysis of variance, and linear regression for normal data and similar models for binomial, multinomial, and Poisson data. Building on the familiarity developed with those models, the generalized linear models are introduced, making it possible for readers to handle fairly complicated models for both continuous and discrete data. Models for directional data are treated as well. The emphasis is on parametric models, but the book also includes a chapter on the most important nonparametric tests. This presentation incorporates the use of the SAS statistical software package, which authors use to illustrate all of the statistical tools described. However, to reinforce understanding of the basic concepts, calculations for the simplest models are also worked through by hand. SAS programs and the data used in the examples and exercises are available on the Internet.

The Origin Of Individuals Columbia University Press

PALEY'S *Natural Theology* though not by any means an epoch-making may perhaps be called an epoch-marking book. It was the crown of the endeavour of eighteenth-century religious philosophy to found a theology on the evidences of external nature. According to such exact knowledge of Nature's operations as was then generally available, Paley's attempt might well be thought to have succeeded. He opens his argument with a striking and effective illustration. He imagines a wayfarer crossing a heath who strikes his foot against a stone, and who asks himself how it came into being. Paley thinks he might be content with vaguely supposing that it was there 'always.' But suppose that what he had found at his foot was not a stone but a watch and that he now saw such an instrument for the first time. He would then certainly have not been so easily contented with an answer to the riddle of its existence. He would, if he examined it minutely, have observed that it was a structure intended for a certain purpose, and having all its parts arranged for that object, and mutually interdependent. The different substances of which it was composed would be discovered to have each its special appropriateness for the fulfilling of some particular function in the economy of the whole. Though unacquainted with watches he would, if he was a man of sense and cultivation, infallibly conclude that he had before him an instrument intelligently constructed with a certain object in view—the object of measuring the flight of time. He would feel assured of this, even though he should find that the object of the mechanism were not attained with absolute accuracy, and even though there were some parts of it whose functions were not clear to him. The watch would be rightly regarded as a work of design; and the observer would be justified in arguing from it to the existence of a designer, endowed with the faculties of intelligence and conscious purpose, by whom the watch must have been put together. The rest of Paley's *Natural Theology* is an application of this analogy to the question of the origin of the universe. Ranging over the whole field of animate and inanimate nature he points to instance after instance of what appears to be the minute and thoughtful adaptation of means to ends, the co-ordination of part with part in the interest of the whole, and he has no difficulty, from this point of view, in showing the world of nature to be a piece of mechanism far more wonderfully and ingeniously constructed than any watch, and bearing prima facie evidence of the most convincing kind of its construction by a Being possessed of intelligence, purpose and foresight precisely resembling those attributes as displayed by man, but vastly heightened and enlarged. As the watch must have been made by man, so a manlike being, endowed

with the necessary powers and faculties, must be postulated as the maker of the material universe. And thus the existence of a God made in the image of man appeared to have been demonstrated to the satisfaction of eighteenth-century theology.

Life Letts and Lonsdale

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Brings findings and theories in biology and psychology to bear on ethics.

A Companion to the Philosophy of Biology ScholarlyEditions

Aristotle's Philosophy of Biology Studies in the Origins of Life Science Cambridge University Press