

Philosophy Of Biology

WHEN PEOPLE SHOULD GO TO THE BOOK STORES, SEARCH INAUGURATION BY SHOP, SHELF BY SHELF, IT IS IN FACT PROBLEMATIC. THIS IS WHY WE OFFER THE BOOK COMPILATIONS IN THIS WEBSITE. IT WILL TOTALLY EASE YOU TO SEE GUIDE **PHILOSOPHY OF BIOLOGY** AS YOU SUCH AS.

BY SEARCHING THE TITLE, PUBLISHER, OR AUTHORS OF GUIDE YOU ESSENTIALLY WANT, YOU CAN DISCOVER THEM RAPIDLY. IN THE HOUSE, WORKPLACE, OR PERHAPS IN YOUR METHOD CAN BE EVERY BEST AREA WITHIN NET CONNECTIONS. IF YOU INTEND TO DOWNLOAD AND INSTALL THE PHILOSOPHY OF BIOLOGY, IT IS COMPLETELY EASY THEN, BEFORE CURRENTLY WE EXTEND THE ASSOCIATE TO BUY AND CREATE BARGAINS TO DOWNLOAD AND INSTALL PHILOSOPHY OF BIOLOGY AS A RESULT SIMPLE!

A COMPANION TO THE PHILOSOPHY OF BIOLOGY - SAHOTRA SARKAR 2010-11-08

A COMPANION TO THE PHILOSOPHY OF BIOLOGY "SARKAR IS TO BE CONGRATULATED FOR ASSEMBLING THIS TALENTED TEAM OF PHILOSOPHERS, WHO ARE THEMSELVES TO BE CONGRATULATED FOR WRITING THESE INTERESTING ESSAYS ON SO MANY FASCINATING AREAS IN PHILOSOPHY OF BIOLOGY. THIS BOOK WILL BE A WONDERFUL RESOURCE FOR FUTURE WORK." ELLIOT SOBER, UNIVERSITY OF WISCONSIN-MADISON "MANY OF THE DISCUSSIONS HERE START WITH A DEFINITION OF TERMS AND A HISTORICAL CONTEXT OF THE SUBJECT BEFORE DELVING INTO THE DEEPER PHILOSOPHICAL ISSUES, MAKING IT A USEFUL REFERENCE FOR STUDENTS OF BIOLOGY AS WELL AS PHILOSOPHY."

NORTHEASTERN NATURALIST "THE TOPICS THAT ARE ADDRESSED ARE DONE SO WELL. THIS BOOK WILL APPEAL TO THE ADVANCED STUDENT AND KNOWLEDGEABLE AMATEUR AND MAY PROVE USEFUL CATALYST FOR DISCUSSION AMONG RESEARCH TEAMS OR THOSE ENGAGED IN CROSS-DISCIPLINARY STUDIES." REFERENCE REVIEWS A COMPANION TO THE PHILOSOPHY OF BIOLOGY OFFERS CONCISE OVERVIEWS OF PHILOSOPHICAL ISSUES RAISED BY ALL AREAS OF BIOLOGY. ADDRESSING BOTH TRADITIONAL AND EMERGING AREAS OF PHILOSOPHICAL INTEREST, THE VOLUME FOCUSES ON THE PHILOSOPHICAL IMPLICATIONS OF EVOLUTIONARY THEORY AS WELL AS KEY TOPICS SUCH AS MOLECULAR BIOLOGY, IMMUNOLOGY, AND ECOLOGY COMPRISING ESSAYS BY TOP SCHOLARS IN THE FIELD, THIS VOLUME IS AN AUTHORITATIVE GUIDE FOR PROFESSIONAL PHILOSOPHERS, HISTORIANS, SOCIOLOGISTS AND BIOLOGISTS, AS WELL AS AN ACCESSIBLE REFERENCE WORK FOR STUDENTS SEEKING TO LEARN ABOUT THIS RAPIDLY-CHANGING FIELD.

PHILOSOPHY OF BIOLOGY - BRIAN GARVEY 2014-12-05

THIS MAJOR NEW SERIES IN THE PHILOSOPHY OF SCIENCE AIMS TO PROVIDE A NEW GENERATION OF TEXTBOOKS FOR THE SUBJECT. THE SERIES WILL NOT ONLY OFFER FRESH TREATMENTS OF CORE TOPICS IN THE THEORY AND METHODOLOGY OF SCIENTIFIC KNOWLEDGE, BUT ALSO INTRODUCTIONS TO NEWER AREAS OF THE DISCIPLINE. FURTHERMORE, THE SERIES WILL COVER TOPICS IN CURRENT SCIENCE THAT RAISE SIGNIFICANT FOUNDATIONAL ISSUES BOTH FOR

SCIENTIFIC THEORY AND FOR PHILOSOPHY MORE GENERALLY. BIOLOGY RAISES DISTINCT QUESTIONS OF ITS OWN NOT ONLY FOR PHILOSOPHY OF SCIENCE, BUT FOR METAPHYSICS, EPISTEMOLOGY AND ETHICS. THIS COMPREHENSIVE NEW TEXTBOOK FOR A RAPIDLY GROWING FIELD OF STUDY PROVIDES STUDENTS NEW TO THE SUBJECT WITH AN UP-TO-DATE PRESENTATION OF THE KEY PHILOSOPHICAL ISSUES. CARE IS TAKEN THROUGHOUT TO KEEP THE TECHNICALITIES ACCESSIBLE TO THE NON-BIOLOGIST BUT WITHOUT SACRIFICING THE PHILOSOPHICAL SUBTLETIES. THE FIRST PART OF THE BOOK COVERS THE PHILOSOPHICAL CHALLENGES POSED BY EVOLUTION AND EVOLUTIONARY BIOLOGY, BEGINNING WITH DARWIN'S CENTRAL ARGUMENT IN THE ORIGIN OF THE SPECIES. INDIVIDUAL CHAPTERS COVER NATURAL SELECTION, THE SELFISH GENE, ALTERNATIVE UNITS OF SELECTION, DEVELOPMENTAL SYSTEMS THEORY, ADAPTIONISM AND ISSUES IN MACROEVOLUTION. THE SECOND PART OF THE BOOK EXAMINES PHILOSOPHICAL QUESTIONS ARISING IN CONNECTION WITH BIOLOGICAL TRAITS, FUNCTION, NATURE AND NURTURE, AND BIOLOGICAL KINDS. THE THIRD PART OF THE BOOK EXAMINES METAPHYSICAL QUESTIONS, BIOLOGY'S RELATION WITH THE TRADITIONAL CONCERNS OF PHILOSOPHY OF SCIENCE, AND HOW EVOLUTION HAS BEEN INTRODUCED INTO EPISTEMOLOGICAL DEBATES. THE FINAL PART CONSIDERS THE RELEVANCE OF BIOLOGY TO QUESTIONS ABOUT ETHICS, RELIGION AND HUMAN NATURE.

PHILOSOPHY OF BIOLOGY - SAMIR OKASHA 2019-11-07

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.

STUDIES IN THE PHILOSOPHY OF BIOLOGY - FRANCISCO AYALA 1974-01-01

THE CAMBRIDGE COMPANION TO THE PHILOSOPHY OF BIOLOGY - DAVID L. HULL 2007-10-01

THE PHILOSOPHY OF BIOLOGY IS ONE OF THE MOST EXCITING NEW AREAS IN THE FIELD OF PHILOSOPHY AND ONE THAT IS ATTRACTING MUCH ATTENTION FROM WORKING SCIENTISTS. THIS COMPANION, EDITED BY TWO OF THE FOUNDERS OF THE FIELD, INCLUDES NEWLY COMMISSIONED ESSAYS BY SENIOR SCHOLARS AND UP-AND-COMING YOUNGER SCHOLARS WHO COLLECTIVELY EXAMINE THE MAIN AREAS OF THE SUBJECT - THE NATURE OF EVOLUTIONARY THEORY, CLASSIFICATION, TELEOLOGY AND FUNCTION, ECOLOGY, AND THE PROBLEMATIC RELATIONSHIP BETWEEN BIOLOGY AND RELIGION, AMONG OTHER TOPICS. UP-TO-DATE AND COMPREHENSIVE IN ITS COVERAGE, THIS UNIQUE VOLUME WILL BE OF INTEREST NOT ONLY TO PROFESSIONAL PHILOSOPHERS BUT ALSO TO STUDENTS IN THE HUMANITIES AND RESEARCHERS IN THE LIFE SCIENCES AND RELATED AREAS OF INQUIRY.

THE PHILOSOPHY OF BIOLOGY - DAVID L. HULL 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.

PHILOSOPHY OF BIOLOGY - 2007-02-05

PHILOSOPHY OF BIOLOGY IS A RAPIDLY EXPANDING FIELD. IT IS CONCERNED WITH EXPLANATORY CONCEPTS IN EVOLUTION, GENETICS, AND ECOLOGY. THIS COLLECTION OF 25 ESSAYS BY LEADING RESEARCHERS PROVIDES AN OVERVIEW OF THE STATE OF THE FIELD. THESE ESSAYS ARE WHOLLY NEW; NONE OF THEM COULD HAVE BEEN WRITTEN EVEN TEN YEARS AGO. THEY DEMONSTRATE HOW PHILOSOPHICAL ANALYSIS HAS BEEN ABLE TO CONTRIBUTE TO SOMETIMES CONTESTED AREAS OF SCIENTIFIC THEORY MAKING. -WRITTEN BY INTERNATIONALLY ACKNOWLEDGED LEADERS IN THE FIELD - ENTRIES MAKE ORIGINAL CONTRIBUTIONS AS WELL AS SUMMARIZING STATE OF THE ART DISCOVERIES IN THE FIELD - EASY TO READ AND UNDERSTAND

PHILOSOPHICAL PERSPECTIVES ON THE ENGINEERING APPROACH IN BIOLOGY - SUNE HOLM 2020-06-07

PHILOSOPHICAL PERSPECTIVES ON THE ENGINEERING APPROACH IN BIOLOGY PROVIDES A PHILOSOPHICAL EXAMINATION OF WHAT HAS BEEN CALLED THE MOST POWERFUL METAPHOR IN BIOLOGY: THE MACHINE METAPHOR. THE CHAPTERS COLLECTED IN THIS VOLUME DISCUSS THE IDEA THAT LIVING SYSTEMS CAN BE UNDERSTOOD THROUGH THE LENS OF ENGINEERING METHODS AND MACHINE METAPHORS FROM BOTH HISTORICAL, THEORETICAL, AND PRACTICAL PERSPECTIVES. IN THEIR CONTRIBUTIONS THE AUTHORS EXAMINE QUESTIONS ABOUT SCIENTIFIC EXPLANATION AND METHODOLOGY, THE INTERRELATIONSHIP BETWEEN SCIENCE AND ENGINEERING, AND THE IMPACT THAT THE USE OF ENGINEERING METAPHORS IN SCIENCE MAY HAVE FOR BIOETHICS AND SCIENCE COMMUNICATION, SUCH AS THE WORRY THAT ITS WIDE APPLICATION REINFORCES PUBLIC MISCONCEPTIONS OF THE NATURE OF NEW BIOTECHNOLOGY AND BIOLOGICAL LIFE. THE BOOK ALSO CONTAINS AN INTRODUCTION THAT DESCRIBES THE RISE OF THE MACHINE ANALOGY AND THE MANY WAYS IN WHICH IT PLAYS A CENTRAL ROLE IN FUNDAMENTAL DEBATES ABOUT E.G. DESIGN, ADAPTATION, AND REDUCTIONISM IN THE PHILOSOPHY OF BIOLOGY. THE BOOK WILL BE USEFUL AS A CORE READING FOR PROFESSIONALS AS WELL AS GRADUATE AND UNDERGRADUATE STUDENTS IN COURSES OF PHILOSOPHY OF SCIENCE AND FOR LIFE SCIENTISTS TAKING COURSES IN PHILOSOPHY OF SCIENCE AND BIOETHICS.

LIFE AND EVOLUTION - LORENZO BARAVALLE 2020-04-10

THIS BOOK OFFERS TO THE INTERNATIONAL READER A COLLECTION OF ORIGINAL ARTICLES OF SOME OF THE MOST SKILLFUL HISTORIANS AND PHILOSOPHERS OF BIOLOGY CURRENTLY WORKING IN LATIN AMERICAN UNIVERSITIES. DURING THE LAST DECADES, INCREASING ATTENTION HAS BEEN PAID IN LATIN AMERICA TO THE HISTORY AND PHILOSOPHY OF BIOLOGY, BUT SINCE MANY LOCAL AUTHORS PREFER TO WRITE IN SPANISH OR IN PORTUGUESE, THEIR IDEAS HAVE BARELY CROSSED THE BOUNDARIES OF THE CONTINENT. THIS

VOLUME AIMS TO REMEDY THIS STATE OF THINGS, PROVIDING A GOOD SAMPLE OF THIS PRODUCTION TO THE ENGLISH SPEAKING READERS, BRINGING TOGETHER CONTRIBUTIONS FROM RESEARCHERS WORKING IN BRAZILIAN, ARGENTINEAN, CHILEAN, COLOMBIAN AND MEXICAN UNIVERSITIES. THE STRESS ON THE REGIONAL PROVENANCE OF THE AUTHORS IS NOT INTENDED TO SUGGEST THE EXISTENCE OF SOMETHING LIKE A LATIN AMERICAN HISTORY AND PHILOSOPHY OF BIOLOGY, SUPPOSEDLY ENDOWED WITH DISTINCTIVE FEATURES. ON THE CONTRARY, THE EDITORS FIRMLY BELIEVE THAT ADVANCES IN THIS FIELD CAN BE ACHIEVED ONLY BY STIMULATING THE INTEGRATION IN THE INTERNATIONAL DEBATE. BASED ON THIS ASSUMPTION, THE BOOK FOCUSES ON TWO TOPICS, LIFE AND EVOLUTION, AND PRESENTS A SELECTION OF CONTRIBUTIONS ADDRESSING ISSUES SUCH AS THE HISTORY OF THE CONCEPT OF LIFE, THE PHILOSOPHICAL REFLECTION ON LIFE MANIPULATION AND LIFE EXTENSION, THE STRUCTURE AND DEVELOPMENT OF EVOLUTIONARY THEORY AS WELL AS HUMAN EVOLUTION. LIFE AND EVOLUTION – LATIN AMERICAN ESSAYS ON THE HISTORY AND PHILOSOPHY OF BIOLOGY WILL PROVIDE THE INTERNATIONAL READER WITH A RATHER COMPLETE PICTURE OF THE ONGOING RESEARCH IN THE HISTORY AND PHILOSOPHY OF BIOLOGY IN LATIN AMERICA, OFFERING A SNAPSHOT OF THIS DYNAMIC COMMUNITY. IT WILL ALSO CONTRIBUTE TO CONTEXTUALIZE AND DEVELOP THE DEBATE CONCERNING LIFE AND EVOLUTION, AND THE RELATION BETWEEN THE TWO PHENOMENA.

WHAT THE PHILOSOPHY OF BIOLOGY IS - M. RUSE 1989-08-31

PHILOSOPHERS OF SCIENCE FREQUENTLY BEMOAN (OR CHEER) THE FACT THAT TODAY, WITH THE SUPPOSED COLLAPSE OF LOGICAL EMPIRICISM, THERE ARE NOW ;;10 GRAND SYSTEMS. HOWEVER, ALTHOUGH THIS MAYOR MAY NOT BE TRUE, AND IF TRUE MAYOR MAY NOT BE A CAUSE FOR DELIGHT, NO ONE SHOULD CONCLUDE THAT THE PHILOSOPHY OF SCIENCE HAS GROUND TO A HALT, ITS PROBLEMS EXHAUSTED AND ITS PRACTITIONERS DISPIRITED. IN FACT, IN THIS POST KUHNIAN AGE THE SUBJECT HAS NEVER BEEN MORE ALIVE, AS WE WORK WITH ENTHUSIASM ON SPECIAL TOPICS, HISTORICAL AND CONCEPTUAL. AND NO TOPIC HAS GROWN AND THRIVED QUITE LIKE THE PHILOSOPHY OF BIOLOGY, WHICH NOW HAS MANY STUDENTS IN THE FIELD PRODUCING HIGH-QUALITY ARTICLES AND MONOGRAPHS. THE SUCCESS OF THIS SUBJECT IS DUE ABOVE ALL TO THE WORK AND INFLUENCE OF ONE MAN: DAVID HULL. IN HIS OWN WRITINGS AND IN THE SUPPORT HE HAS GIVEN TO OTHERS, HE HAS SHOWN TRUE LEADERSHIP, IN THE BEST PLATONIC SENSE. IT IS NOW TWENTY YEARS SINCE HULL FNT GAVE HIS SEMINAL PAPER 'WHAT THE PHILOSOPHY OF BIOLOGY IS NOT', AND TO MARK THAT POINT AND TO SHOW OUR RESPECT, GRATITUDE AND AFFECTION TO ITS AUTHOR, A NUMBER OF US WHO OWE MUCH TO HULL DECIDED TO PRODUCE A VOLUME OF ESSAYS ON AND AROUND THEMES TO WHICH HULL HAS SPOKEN.

PROCESSES OF LIFE - JOHN DUPRÉ 2012-01-26

JOHN DUPRÉ EXPLORES RECENT REVOLUTIONARY DEVELOPMENTS IN BIOLOGY AND CONSIDERS THEIR RELEVANCE FOR OUR UNDERSTANDING OF HUMAN NATURE AND HUMAN SOCIETY. EPIGENETICS AND RELATED AREAS OF MOLECULAR BIOLOGY HAVE ERODED THE EXCEPTIONAL STATUS OF THE GENE AND PRESENTED THE GENOME AS FULLY INTERACTIVE WITH THE REST OF

THE CELL. DEVELOPMENTAL SYSTEMS THEORY PROVIDES A SPACE FOR A VISION OF EVOLUTION THAT TAKES FULL ACCOUNT OF THE FUNDAMENTAL IMPORTANCE OF DEVELOPMENTAL PROCESSES. DUPRÉ SHOWS THE IMPORTANCE OF MICROBIOLOGY FOR A PROPER UNDERSTANDING OF THE LIVING WORLD, AND REVEALS HOW IT SUBVERTS SUCH BASIC BIOLOGICAL ASSUMPTIONS AS THE ORGANISATION OF BIOLOGICAL KINDS ON A BRANCHING TREE OF LIFE, AND THE SIMPLE TRADITIONAL CONCEPTION OF THE BIOLOGICAL ORGANISM. THESE TOPICS ARE CONSIDERED IN THE CONTEXT OF A VIEW OF SCIENCE AS REALISTICALLY GROUNDED IN THE NATURAL ORDER, BUT AT THE SAME TIME AS PLURALISTIC AND INEXTRICABLY INTEGRATED WITHIN A SOCIAL AND NORMATIVE CONTEXT. THE VOLUME INCLUDES A SECTION THAT RECAPITULATES AND EXPANDS SOME OF THE AUTHOR'S GENERAL VIEWS ON SCIENCE; A SECTION ADDRESSING A RANGE OF TOPICS IN BIOLOGY, INCLUDING THE SIGNIFICANCE OF GENOMICS, THE NATURE OF THE ORGANISM AND THE CURRENT STATUS OF EVOLUTIONARY THEORY; AND A SECTION EXPLORING SOME IMPLICATIONS OF CONTEMPORARY BIOLOGY FOR HUMANS, FOR EXAMPLE ON THE REALITY OR UNREALITY OF HUMAN RACES, AND THE PLASTICITY OF HUMAN NATURE.

THE PHILOSOPHY OF BIOLOGY - JAMES JOHNSTONE 2014-01-30

ORIGINALLY PUBLISHED IN 1914, THIS BOOK EXAMINES SEVERAL KEY POINTS OF BIOLOGICAL SCIENCE THROUGH THE LENS OF PHILOSOPHY. JOHNSTONE ADDRESSES THE QUESTIONS OF CONSCIOUSNESS, EVOLUTION AND THE ACTIVITIES OF THE ORGANISM, AMONG OTHERS, WITH A SPECIAL FOCUS ON THE WORK OF DRIESCH AND BERGSON. THIS BOOK WILL BE OF VALUE TO ANYONE WITH AN INTEREST IN THE PHILOSOPHY OF SCIENCE.

BELIEFS AND BIOLOGY - J. TRUSTED 2003-04-15

THE PURPOSE OF THIS BOOK IS TO SHOW HOW THE SCIENCE OF BIOLOGY HAS BEEN INFLUENCED BY ETHICAL, RELIGIOUS, SOCIAL, CULTURAL AND PHILOSOPHICAL BELIEFS AS TO THE NATURE OF LIFE AND OUR HUMAN PLACE IN THE NATURAL WORLD. IT FOLLOWS THAT THERE ARE ACCOUNTS OF THEORIES AND INVESTIGATIONS FROM THOSE OF ARISTOTLE TO RESEARCH IN MOLECULAR BIOLOGY TODAY. THESE HAVE BEEN SELECTED TO ILLUSTRATE THE THEME AND THERE IS NO INTENTION TO PRESENT A COMPREHENSIVE HISTORY OF BIOLOGY. IT IS SUGGESTED THAT ETHICAL BELIEFS IN PARTICULAR HAVE A GREATER INFLUENCE IN BIOLOGY THAN IN OTHER SCIENCES, SUCH AS PHYSICS AND CHEMISTRY, AND THIS IS BECAUSE BIOLOGY INCLUDES THE STUDY OF OURSELVES AND INVOLVES US IN CONSIDERATION OF THE VALUE AND PURPOSE OF LIFE. ATTITUDES TO NON-HUMAN LIFE ARE ALSO COLOURED BY ETHICAL BELIEFS AND THOUGH SOME PHILOSOPHERS, FOR EXAMPLE DESCARTES, THOUGHT THAT ONLY HUMAN BEINGS WERE CAPABLE OF THOUGHT AND FEELING THE GENERAL VIEW HAS ALWAYS BEEN THAT ANIMALS WERE SENTIENT. OUR TREATMENT OF ANIMALS AND OUR ATTITUDES TOWARD THEM HAVE ALSO BEEN CONDITIONED BY RELIGIOUS VIEWS AS TO THE POSITION OF HUMANS IN RELATION TO THE NATURAL WORLD.

THE PHILOSOPHY OF BIOLOGY - MICHAEL RUSE 1973

PHILOSOPHY OF BIOLOGY - ALEX ROSENBERG 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

THE OXFORD HANDBOOK OF PHILOSOPHY OF BIOLOGY - MICHAEL RUSE 2008-07-10

THIS HANDBOOK COVERS THE HISTORY OF PHILOSOPHY OF BIOLOGY THEN MOVES ON TO EVOLUTIONARY THEORY. IT CONTINUES WITH DISCUSSIONS OF MOLECULAR BIOLOGY AND ECOLOGY, AND COVERS BIOLOGY AND ETHICS AS WELL AS BIOLOGY AND RELIGION.

CANGUILHEM AND CONTINENTAL PHILOSOPHY OF BIOLOGY - GIUSEPPE BIANCO 2023-01-31

THIS EDITED VOLUME PRESENTS PAPERS ON THIS ALTERNATIVE PHILOSOPHY OF BIOLOGY THAT COULD BE CALLED "CONTINENTAL PHILOSOPHY OF BIOLOGY," AND THE VARIETY OF POSITIONS AND SOLUTIONS THAT IT HAS SPAWNED. IN DOING SO, IT CONTRIBUTES TO DEBATES IN THE HISTORY AND PHILOSOPHY OF SCIENCE AND THE HISTORY OF PHILOSOPHY OF SCIENCE, AS WELL AS TO THE CRAVING FOR 'HISTORY' AND/OR 'THEORY' IN THE THEORETICAL BIOLOGICAL DISCIPLINES. IN ADDITION, HOWEVER, IT ALSO PROVIDES INSPIRATION FOR A BROADER IMAGE OF PHILOSOPHY OF BIOLOGY, IN WHICH THESE TRADITIONAL ISSUES MAY HAVE A PLACE. THE VOLUME DEVOTES SPECIFIC ATTENTION TO THE WORK OF GEORGES CANGUILHEM, WHICH IS CENTRAL TO THIS ALTERNATIVE TRADITION OF "CONTINENTAL PHILOSOPHY OF BIOLOGY". THIS IS THE FIRST COLLECTION ON GEORGES CANGUILHEM AND THE CONTINENTAL TRADITION IN PHILOSOPHY OF BIOLOGY. THE BOOK SHOULD BE OF INTEREST TO PHILOSOPHERS OF BIOLOGY, CONTINENTAL PHILOSOPHERS, HISTORIANS OF BIOLOGY AND THOSE INTERESTED IN BROADER TRADITIONS IN PHILOSOPHY OF SCIENCE.

BRINGING BIOLOGY TO LIFE - MAHESH ANANTH 2018-07-25

BRINGING BIOLOGY TO LIFE IS A GUIDED TOUR OF THE PHILOSOPHY OF BIOLOGY, CANVASSING THREE BROAD AREAS: THE EARLY HISTORY OF BIOLOGY, FROM ARISTOTLE TO DARWIN; TRADITIONAL DEBATES REGARDING SPECIES, FUNCTION, AND UNITS OF SELECTION; AND RECENT EFFORTS TO BETTER UNDERSTAND THE HUMAN CONDITION IN LIGHT OF EVOLUTIONARY BIOLOGY. TOPICS ARE ADDRESSED USING NO MORE TECHNICAL JARGON THAN NECESSARY, AND WITHOUT PRESUPPOSING ANY ADVANCED KNOWLEDGE OF BIOLOGY OR THE PHILOSOPHY OF SCIENCE ON THE PART OF THE READER. DISCUSSION QUESTIONS ARE ALSO PROVIDED TO ENCOURAGE READER REFLECTION.

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.

THE UNDERSTANDING OF NATURE - MARJORIE GRENE 2012-12-06

NO STUDENT OR COLLEAGUE OF MARJORIE GRENE WILL MISS HER INCISIVE PRESENCE IN THESE PAPERS ON THE STUDY AND NATURE OF LIVING NATURE, AND WE BELIEVE THE NEW READER WILL QUICKLY JOIN THE STIMULATING DISCUSSION AND CRITIQUE WHICH PROFESSOR GRENE STEADILY PROVOKES. FOR YEARS SHE HAS WORKED WITH EQUALLY SURE KNOWLEDGE IN THE CLASSICAL DOMAIN OF PHILOSOPHY AND IN MODERN EPISTEMOLOGICAL INQUIRY, EQUALLY PHILOSOPHER OF SCIENCE AND METAPHYSICIAN. MOREOVER, SHE HAS THE DEEPLY SENSIBLE NOTION THAT SHE SHOULD BE A CRITICALLY INTELLIGENT LEARNER AS MUCH AS AN IMAGINATIVELY ORIGINAL THINKER, AND AS A RESULT SHE HAS BROUGHT INSIGHTFUL EXPOSITORY READINGS OF OTHER PHILOSOPHERS AND SCIENTISTS TO HER OWN WORK. WE WERE MOST FORTUNATE THAT MARJORIE GRENE WAS WILLING TO SPEND A FULL SEMESTER OF A RECENT LEAVE HERE IN BOSTON, AND WE HAVE ON OTHER OCCASIONS SOUGHT HER PARTICIPATION IN OUR COLLOQUIA AND ELSEWHERE. NOW WE HAVE THE PLEASURE OF INCLUDING AMONG THE BOSTON STUDIES IN THE PHILOSOPHY OF SCIENCE THIS GENEROUS SELECTION FROM GRENE'S PHILOSOPHICAL INQUIRIES INTO THE UNDERSTANDING OF THE NATURAL WORLD, AND OF THE MEN AND WOMEN IN IT. BOSTON UNIVERSITY CENTER FOR THE R. S. COHEN PHILOSOPHY AND HISTORY OF SCIENCE M. W. WARTOFSKY APRIL 1974 PREFACE THIS COLLECTION SPANS - SPOTTILY - YEARS FROM 1946 ('ON SOME DISTINCTIONS BETWEEN MEN AND BRUTES') TO 1974 ('ON THE NATURE OF NATURAL NECESSITY').

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.

PHILOSOPHY OF BIOLOGY - ALEX ROSENBERG 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.

TOPICS IN THE PHILOSOPHY OF BIOLOGY - MARJORIE GRENE 1976

THE PHILOSOPHY OF BIOLOGY, SOME CLAIM, SHOULD MOVE TO THE CENTRE OF PHILOSOPHY OF SCIENCE - A PLACE IT HAS NOT BEEN ACCORDED SINCE THE TIME OF MACH. PHYSICS WAS THE PARADIGM OF SCIENCE, AND ITS SHADOW FALLS ACROSS CONTEMPORARY PHILOSOPHY OF BIOLOGY IN A VARIETY OF CONTEXTS: REDUCTION, ORGANIZATION AND SYSTEM, BIOCHEMICAL MECHANISM, AND THE MODELS OF LAW AND EXPLANATION WHICH ARE DERIVED FROM THE DUHEM-POPPEL-HEMPEL TRADITION. IN THIS VOLUME, THE EDITORS PRESENT ESSAYS WHICH PROBE SUCH HISTORICAL AND METHODOLOGICAL QUESTIONS AS REDUCIBILITY, LEVELS OF ORGANIZATION, FUNCTION AND TELEOLOGY, ISSUES EMERGING FROM EVOLUTIONARY THEORY, AND THE SPECIES PROBLEM. THE VOLUME OFFERS AMPLE EVIDENCE OF HOW GOOD CONTEMPORARY WORK IN THE PHILOSOPHICAL UNDERSTANDING OF BIOLOGY HAS BECOME. THE EDITORS APTLY COMBINE A DEEP PHILOSOPHICAL APPRECIATION OF CONCEPTUAL ISSUES IN BIOLOGY WITH AN HISTORICAL UNDERSTANDING OF THE RADICAL CHANGES IN THE SCIENCE OF BIOLOGY SINCE THE 19TH CENTURY.

TREES OF LIFE - P.E. GRIFFITHS 1992-05-31

THIS VOLUME CONTAINS PAPERS PRESENTED BY NEW ZEALAND AND AMERICAN PHILOSOPHERS OF BIOLOGY DURING A RECENT VISIT TO NEW ZEALAND BY ELLIOTT SOBER. SOME OF THE PAPERS REVEAL A UNIQUE LOCAL PERSPECTIVE ON CURRENT DEBATES. ROBIN CRAW'S HIGHLY ORIGINAL CONTRIBUTION TO THE 'EVOLUTIONARY' PHILOSOPHY OF SCIENCE INITIATED BY

DAVID HULL, APPLIES TO INTELLECTUAL EVOLUTION THE STRONGLY BIOGEOGRAPHIC APPROACH TO THE EVOLUTION OF LIFE THAT IS A RECOGNISED NEW ZEALAND SPECIALITY. OTHER PAPERS REFLECT PAST INTELLECTUAL EXCHANGE BETWEEN THE TWO COUNTRIES. SUSAN OYAMA AND RUSSELL GRAY'S PAPERS ON THE 'DEVELOPMENTAL SYSTEMS' APPROACH TO EVOLUTION, FOR EXAMPLE, ARE THE OUTCOME OF SEVERAL YEARS OF FRUITFUL EXCHANGE. THE REMAINING PAPERS IN THE VOLUME COVER A WIDE RANGE OF TOPICS. IN ADDITION TO SOBER'S OWN DISCUSSION OF POST-SOCIOBIOLOGICAL TREATMENTS OF CULTURAL EVOLUTION THE VOLUME INCLUDES KIM STERELNY'S EVALUATION OF 'MACROEVOLUTION', PAUL GRIFFITHS' ANALYSIS OF ADAPTATION AND VESTIGIALITY, JOHN MORSS ON THE NOTION OF ONTOGENY AND TIMOTHY SHANAHAN ON THE CONCEPT OF DRIFT.

THINKING ABOUT LIFE - PAUL S. AGUTTER 2008-11-05

OUR PREVIOUS BOOK, ABOUT LIFE, CONCERNED MODERN BIOLOGY. WE USED OUR PRESENT-DAY UNDERSTANDING OF CELLS TO 'DEFINE' THE LIVING STATE, PROVIDING A BASIS FOR EXPLORING SEVERAL GENERAL-INTEREST TOPICS: THE ORIGIN OF LIFE, EXTRATERRESTRIAL LIFE, INTELLIGENCE, AND THE POSSIBILITY THAT HUMANS ARE UNIQUE. THE IDEAS WE PROPOSED IN ABOUT LIFE WERE INTENDED AS STARTING-POINTS FOR DEBATE - WE DID NOT CLAIM THEM AS 'TRUTH' - BUT THE INFORMATION ON WHICH THEY WERE BASED IS CURRENTLY ACCEPTED AS 'SCIENTIFIC FACT'. WHAT DOES THAT MEAN? WHAT IS 'SCIENTIFIC FACT' AND WHY IS IT ACCEPTED? WHAT IS SCIENCE - AND IS BIOLOGY LIKE OTHER SCIENCES SUCH AS PHYSICS (EXCEPT IN SUBJECT MATTER)? THE BOOK YOU ARE NOW READING INVESTIGATES THESE QUESTIONS - AND SOME RELATED ONES. LIKE ABOUT LIFE, IT MAY PARTICULARLY INTEREST A READER WHO WISHES TO CHANGE CAREER TO BIOLOGY AND ITS RELATED SUBDISCIPLINES. IN LINE WITH A RECOMMENDATION BY THE BRITISH ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE - THAT THE PUBLIC SHOULD BE GIVEN FULLER INFORMATION ABOUT THE NATURE OF SCIENCE - WE PRESENT THE CONCEPTS UNDERPINNING BIOLOGY AND A SURVEY OF ITS HISTORICAL AND PHILOSOPHICAL BASIS.

PHILOSOPHY OF BIOLOGY - BRIAN GARVEY 2014-12-05

THIS MAJOR NEW SERIES IN THE PHILOSOPHY OF SCIENCE AIMS TO PROVIDE A NEW GENERATION OF TEXTBOOKS FOR THE SUBJECT. THE SERIES WILL NOT ONLY OFFER FRESH TREATMENTS OF CORE TOPICS IN THE THEORY AND METHODOLOGY OF SCIENTIFIC KNOWLEDGE, BUT ALSO INTRODUCTIONS TO NEWER AREAS OF THE DISCIPLINE. FURTHERMORE, THE SERIES WILL COVER TOPICS IN CURRENT SCIENCE THAT RAISE SIGNIFICANT FOUNDATIONAL ISSUES BOTH FOR SCIENTIFIC THEORY AND FOR PHILOSOPHY MORE GENERALLY. BIOLOGY RAISES DISTINCT QUESTIONS OF ITS OWN NOT ONLY FOR PHILOSOPHY OF SCIENCE, BUT FOR METAPHYSICS, EPISTEMOLOGY AND ETHICS. THIS COMPREHENSIVE NEW TEXTBOOK FOR A RAPIDLY GROWING FIELD OF STUDY PROVIDES STUDENTS NEW TO THE SUBJECT WITH AN UP-TO-DATE PRESENTATION OF THE KEY PHILOSOPHICAL ISSUES. CARE IS TAKEN THROUGHOUT TO KEEP THE TECHNICALITIES ACCESSIBLE TO THE NON-BIOLOGIST BUT WITHOUT SACRIFICING THE PHILOSOPHICAL SUBTLITIES. THE FIRST PART OF THE BOOK COVERS THE PHILOSOPHICAL

CHALLENGES POSED BY EVOLUTION AND EVOLUTIONARY BIOLOGY, BEGINNING WITH DARWIN'S CENTRAL ARGUMENT IN THE ORIGIN OF THE SPECIES. INDIVIDUAL CHAPTERS COVER NATURAL SELECTION, THE SELFISH GENE, ALTERNATIVE UNITS OF SELECTION, DEVELOPMENTAL SYSTEMS THEORY, ADAPTIONISM AND ISSUES IN MACROEVOLUTION. THE SECOND PART OF THE BOOK EXAMINES PHILOSOPHICAL QUESTIONS ARISING IN CONNECTION WITH BIOLOGICAL TRAITS, FUNCTION, NATURE AND NURTURE, AND BIOLOGICAL KINDS. THE THIRD PART OF THE BOOK EXAMINES METAPHYSICAL QUESTIONS, BIOLOGY'S RELATION WITH THE TRADITIONAL CONCERNS OF PHILOSOPHY OF SCIENCE, AND HOW EVOLUTION HAS BEEN INTRODUCED INTO EPISTEMOLOGICAL DEBATES. THE FINAL PART CONSIDERS THE RELEVANCE OF BIOLOGY TO QUESTIONS ABOUT ETHICS, RELIGION AND HUMAN NATURE.

CONTEMPORARY DEBATES IN PHILOSOPHY OF BIOLOGY - FRANCISCO J. AYALA
2009-11-19

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

BIOLOGICAL IDENTITY - ANNE SOPHIE MEINCKE 2020-08-26

ANALYTIC METAPHYSICS HAS RECENTLY DISCOVERED BIOLOGY AS A MEANS OF GROUNDING METAPHYSICAL THEORIES. THIS HAS RESULTED IN LONG-STANDING METAPHYSICAL PUZZLES, SUCH AS THE PROBLEMS OF PERSONAL IDENTITY AND MATERIAL CONSTITUTION, BEING INCREASINGLY ADDRESSED BY APPEAL TO A BIOLOGICAL UNDERSTANDING OF IDENTITY. THIS DEVELOPMENT WITHIN METAPHYSICS IS IN SIGNIFICANT TENSION WITH THE GROWING TENDENCY AMONGST PHILOSOPHERS OF BIOLOGY TO REGARD BIOLOGICAL IDENTITY AS A DEEP PUZZLE IN ITS OWN RIGHT, ESPECIALLY FOLLOWING RECENT ADVANCES IN OUR UNDERSTANDING OF SYMBIOSIS, THE EVOLUTION OF MULTI-CELLULAR ORGANISMS AND THE INHERENTLY DYNAMICAL CHARACTER OF LIVING SYSTEMS. MOREOVER, AND BUILDING ON THESE BIOLOGICAL INSIGHTS, THE BROADLY SUBSTANCE ONTOLOGICAL FRAMEWORK OF METAPHYSICAL THEORIES OF BIOLOGICAL IDENTITY APPEARS PROBLEMATIC TO A GROWING NUMBER OF PHILOSOPHERS OF BIOLOGY WHO INVOKE PROCESS ONTOLOGY INSTEAD. THIS VOLUME ADDRESSES THIS TENSION, EXPLORING TO WHAT EXTENT IT CAN BE DISSOLVED. FOR THIS PURPOSE, THE VOLUME PRESENTS THE FIRST SELECTION OF ESSAYS EXCLUSIVELY FOCUSED ON BIOLOGICAL IDENTITY AND WRITTEN BY EXPERTS IN METAPHYSICS, THE PHILOSOPHY OF BIOLOGY AND BIOLOGY. THE RESULTING CROSS-DISCIPLINARY DIALOGUE

PAVES THE WAY FOR A CONVINCING ACCOUNT OF BIOLOGICAL IDENTITY THAT IS BOTH METAPHYSICALLY CONSTRUCTIVE AND SCIENTIFICALLY INFORMED, AND WILL BE OF INTEREST TO METAPHYSICIANS, PHILOSOPHERS OF BIOLOGY AND THEORETICAL BIOLOGISTS.

BIOLOGY AND EPISTEMOLOGY - RICHARD CREATH 2000

FIRST PUBLISHED IN 2000, THIS SET OF ESSAYS BY SOME OF THE BEST NAMES IN PHILOSOPHY OF SCIENCE EXPLORES A RANGE OF DIVERSE ISSUES IN THE INTERSECTION OF BIOLOGY AND EPISTEMOLOGY. IT ASKS WHETHER THE STUDY OF LIFE REQUIRES A SPECIAL BIOLOGICAL APPROACH TO KNOWLEDGE AND CONCLUDES THAT IT DOES NOT. THE STUDIES, TAKEN TOGETHER, HELP TO DEVELOP AND DEEPEN OUR UNDERSTANDING OF HOW BIOLOGY WORKS AND WHAT COUNTS AS WARRANTED KNOWLEDGE AND AS LEGITIMATE APPROACHES TO THE STUDY OF LIFE. THE FIRST SECTION DEALS WITH THE NATURE OF EVIDENCE AND EVOLUTIONARY THEORY AS IT CAME TO DOMINATE NINETEENTH-CENTURY PHILOSOPHY OF SCIENCE; THE SECOND AND THIRD PARTS DEAL WITH THE IMPACT OF LABORATORY AND EXPERIMENTAL RESEARCH. THIS IS AN IMPRESSIVE TEAM OF AUTHORS, BRINGING TOGETHER SOME OF THE MOST DISTINGUISHED PHILOSOPHERS OF SCIENCE. THE VOLUME WILL INTEREST PROFESSIONALS AND GRADUATE STUDENTS IN BIOLOGY AND THE HISTORY AND PHILOSOPHY OF SCIENCE.

THE PHILOSOPHY OF BIOLOGY - MARJORIE GRENE 2004-08-02

IS LIFE DIFFERENT FROM THE NON-LIVING? IF SO, HOW? AND HOW, IN THAT CASE, DOES BIOLOGY AS THE STUDY OF LIVING THINGS DIFFER FROM OTHER SCIENCES? THESE QUESTIONS ARE TRACED THROUGH AN EXPLORATION OF EPISODES IN THE HISTORY OF BIOLOGY AND PHILOSOPHY. THE BOOK BEGINS WITH ARISTOTLE, THEN MOVES ON TO DESCARTES, COMPARING HIS POSITION WITH THAT OF HARVEY. IN THE EIGHTEENTH CENTURY THE AUTHORS CONSIDER BUFFON AND KANT. IN THE NINETEENTH CENTURY THE AUTHORS EXAMINE THE CUVIER-GEOFFROY DEBATE, PRE-DARWINIAN GEOLOGY AND NATURAL THEOLOGY, DARWIN AND THE TRANSITION FROM DARWIN TO THE REVIVAL OF MENDELISM. TWO CHAPTERS DEAL WITH THE EVOLUTIONARY SYNTHESIS AND SUCH QUESTIONS AS THE SPECIES PROBLEM, THE REDUCIBILITY OR OTHERWISE OF BIOLOGY TO PHYSICS AND CHEMISTRY, AND THE PROBLEM OF BIOLOGICAL EXPLANATION IN TERMS OF FUNCTION AND TELEOLOGY. THE FINAL CHAPTERS REFLECT ON THE IMPLICATIONS OF THE PHILOSOPHY OF BIOLOGY FOR PHILOSOPHY OF SCIENCE IN GENERAL.

A PRACTICAL PHILOSOPHY FOR THE LIFE SCIENCES - WIM J. VAN DER STEEN 1993-01-01

THIS BOOK INTEGRATES PHILOSOPHY OF BIOLOGY AND PHILOSOPHY OF MEDICINE WITH THE PURPOSE OF MAKING PHILOSOPHY PRACTICAL FOR STUDENTS AND SCIENTISTS. IT CONTAINS MANY EXERCISES AND EXAMPLES FROM LIVE SCIENCE. MUCH ATTENTION IS GIVEN TO THE TRANSLATION OF SCIENTIFIC REASONING INTO THE LANGUAGE OF PHILOSOPHY. THE AUTHOR SHOWS THAT PHILOSOPHICAL MODELS CAN BE USED TO EVALUATE SCIENCE, IF THE LIMITATIONS OF THE MODELS ARE RECOGNIZED SO THEY CAN BE APPLIED IN THE PROPER CONTEXT. ON THE OTHER HAND, SOME PHILOSOPHICAL VIEWS OF SCIENCE NEED TO BE CORRECTED BY SCIENCE. THE BOOK PUTS PHILOSOPHY AND SCIENCE IN A BROADER

PERSPECTIVE. IT INTEGRATES PRACTICAL PHILOSOPHY AND ETHICS IN APPLICATIONS TO LIVE SCIENCE AND UNCOVERS LIMITATIONS OF CURRENT ETHICAL THEORY.

FOUNDATIONS OF BIOPHILOSOPHY - MARTIN MAHNER 2013-03-14

OVER THE PAST THREE DECADES, THE PHILOSOPHY OF BIOLOGY HAS EMERGED FROM THE SHADOW OF THE PHILOSOPHY OF PHYSICS TO BECOME A RESPECTABLE AND THRIVING PHILOSOPHICAL SUBDISCIPLINE. THE AUTHORS TAKE A FRESH LOOK AT THE LIFE SCIENCES AND THE PHILOSOPHY OF BIOLOGY FROM A STRICTLY REALIST AND EMERGENTIST-NATURALIST PERSPECTIVE. THEY OUTLINE A UNIFIED AND SCIENCE-ORIENTED PHILOSOPHICAL FRAMEWORK THAT ENABLES THE CLARIFICATION OF MANY FOUNDATIONAL AND PHILOSOPHICAL ISSUES IN BIOLOGY. THIS BOOK WILL BE OF INTEREST BOTH TO LIFE SCIENTISTS AND PHILOSOPHERS.

PHILOSOPHY OF BIOLOGY - ELLIOTT SOBER 2000-01-12

A GUIDE TO SOME OF THE DEVELOPMENTS THAT HAVE OCCURRED IN THE PHILOSOPHY OF BIOLOGY. COVERING SUCH ISSUES AS EVOLUTIONARY THEORY, CREATIONISM, TELEOLOGY, NATURE VERSUS NURTURE AND SOCIOBIOLOGY, THIS BOOK PROVIDES AN OVERVIEW OF THE CURRENT STATE OF PLAY IN THIS RAPIDLY-CHANGING DISCIPLINE.

TOWARD A NEW PHILOSOPHY OF BIOLOGY - ERNST MAYR 1988

A COLLECTION OF TWENTY-EIGHT ESSAYS, FIVE PREVIOUSLY UNPUBLISHED, GROUPED INTO NINE CATEGORIES: PHILOSOPHY, NATURAL SELECTION, ADAPTATION, DARWIN, DIVERSITY, SPECIES, SPECIATION, MACROEVOLUTION, AND HISTORICAL PERSPECTIVE. THE BOOK, ERNST MAYR NOTES IN THE FOREWORD, IS AN ATTEMPT "TO STRENGTHEN THE BRIDGE BETWEEN BIOLOGY AND PHILOSOPHY, AND POINT TO THE NEW DIRECTION IN WHICH A NEW PHILOSOPHY OF BIOLOGY WILL MOVE."

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

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.

UNDERSTANDING PURPOSE - PHILIPPE HUNEMAN 2007

A COLLECTION OF ESSAYS INVESTIGATING KEY HISTORICAL AND SCIENTIFIC QUESTIONS RELATING TO THE CONCEPT OF NATURAL PURPOSE IN KANT'S PHILOSOPHY OF BIOLOGY. UNDERSTANDING PURPOSE IS AN EXPLORATION OF THE CENTRAL CONCEPT OF NATURAL PURPOSE [NATURZWECK] IN KANT'S PHILOSOPHY OF BIOLOGY. KANT'S WORK IN THIS AREA IS MARKED BY A STRONG TELEOLOGICAL CONCERN: LIVING ORGANISMS, IN HIS VIEW, ARE QUALITATIVELY DIFFERENT FROM MECHANISTIC DEVICES, AND AS A RESULT THEY CANNOT BE UNDERSTOOD BY MEANS OF THE SAME PRINCIPLES. AT THE SAME TIME, KANT'S OWN USE OF THE CONCEPT OF PURPOSE DOES NOT PRESUPPOSE ANY THEOLOGICAL COMMITMENTS, AND IS MERELY "REGULATIVE"; THAT IS, IT IS EMPLOYED AS A HEURISTIC DEVICE. THE CONTRIBUTORS TO THIS VOLUME ALSO INVESTIGATE THE FOLLOWING KEY HISTORICAL QUESTIONS RELATING TO KANT'S PHILOSOPHY OF BIOLOGY: HOW DOES IT RELATE TO EUROPEAN WORK IN THE LIFE SCIENCES THAT WAS DONE BEFORE KANT ARRIVED ON THE

SCENE? HOW DID KANT'S UNIQUE APPROACH TO THE PHILOSOPHY OF BIOLOGY IN TURN INFLUENCE LATER WORK IN THIS AREA? THE ISSUES EXPLORED IN THIS VOLUME ARE AS PERTINENT TO THE HISTORY OF PHILOSOPHY AS THEY ARE TO THE HISTORY OF SCIENCE -- IT IS PRECISELY THE BLURRED BOUNDARIES BETWEEN THESE TWO DISCIPLINES THAT ALLOWS FOR NEW PERSPECTIVES ON KANTIANISM AND EARLY NINETEENTH-CENTURY GERMAN BIOLOGY TO EMERGE. CONTRIBUTORS: JEAN-CLAUDE DUPONT, MARK FISHER, PHILIPPE HUNEMAN, ROBERT J. RICHARDS, PHILLIP R. SLOAN, STÉPHANE SCHMITT, AND JOHN ZAMMITO. PHILIPPE HUNEMAN IS RESEARCHER AT THE CENTRE NATIONAL DE LA RECHERCHE SCIENTIFIQUE UNIT OF THE UNIVERSITÉ PARIS.

ARISTOTLE'S PHILOSOPHY OF BIOLOGY - JAMES G. LENNOX 2001

IN ADDITION TO BEING ONE OF THE WORLD'S MOST INFLUENTIAL PHILOSOPHERS, ARISTOTLE CAN ALSO BE CREDITED WITH THE CREATION OF BOTH THE SCIENCE OF BIOLOGY AND THE PHILOSOPHY OF BIOLOGY. HE WAS THE FIRST THINKER TO TREAT THE INVESTIGATIONS OF THE LIVING WORLD AS A DISTINCT INQUIRY WITH ITS OWN SPECIAL CONCEPTS AND PRINCIPLES. THIS BOOK FOCUSES ON A SEMINAL EVENT IN THE HISTORY OF BIOLOGY - ARISTOTLE'S DELINEATION OF A SPECIAL BRANCH OF THEORETICAL KNOWLEDGE DEVOTED TO THE SYSTEMATIC INVESTIGATION OF ANIMALS. ARISTOTLE APPROACHED THE CREATION OF ZOOLOGY WITH THE TOOLS OF SUBTLE AND SYSTEMATIC PHILOSOPHIES OF NATURE AND OF SCIENCE THAT WERE THEN CAREFULLY TAILORED TO THE INVESTIGATION OF ANIMALS. THE PAPERS COLLECTED IN THIS 2001 VOLUME, WRITTEN BY A PRE-EMINENT FIGURE IN THE FIELD OF ARISTOTLE'S PHILOSOPHY AND BIOLOGY, EXAMINE ARISTOTLE'S APPROACH TO BIOLOGICAL INQUIRY AND EXPLANATION, HIS CONCEPTS OF MATTER, FORM AND KIND, AND HIS TELEOLOGY.

PHILOSOPHY OF SYSTEMS BIOLOGY - SARA GREEN 2016-12-15

THE EMERGENCE OF SYSTEMS BIOLOGY RAISES MANY FASCINATING QUESTIONS: WHAT DOES IT MEAN TO TAKE A SYSTEMS APPROACH TO PROBLEMS IN BIOLOGY? TO WHAT EXTENT IS THE USE OF MATHEMATICAL AND COMPUTATIONAL MODELLING CHANGING THE LIFE SCIENCES?

HOW DOES THE AVAILABILITY OF BIG DATA INFLUENCE RESEARCH PRACTICES? WHAT ARE THE MAJOR CHALLENGES FOR BIOMEDICAL RESEARCH IN THE YEARS TO COME? THIS BOOK ADDRESSES SUCH QUESTIONS OF RELEVANCE NOT ONLY TO PHILOSOPHERS AND BIOLOGISTS BUT ALSO TO READERS INTERESTED IN THE BROADER IMPLICATIONS OF SYSTEMS BIOLOGY FOR SCIENCE AND SOCIETY. THE BOOK FEATURES REFLECTIONS AND ORIGINAL WORK BY EXPERTS FROM ACROSS THE DISCIPLINES INCLUDING SYSTEMS BIOLOGISTS, PHILOSOPHERS, AND INTERDISCIPLINARY SCHOLARS INVESTIGATING THE SOCIAL AND EDUCATIONAL ASPECTS OF SYSTEMS BIOLOGY. IN RESPONSE TO THE SAME SET OF QUESTIONS, THE EXPERTS DEVELOP AND DEFEND THEIR PERSONAL PERSPECTIVES ON THE DISTINCTIVE CHARACTER OF SYSTEMS BIOLOGY AND THE CHALLENGES THAT LIE AHEAD. READERS ARE INVITED TO ENGAGE WITH DIFFERENT VIEWS ON THE QUESTIONS ADDRESSED, AND MAY EXPLORE NUMEROUS THEMES RELATING TO THE PHILOSOPHY OF SYSTEMS BIOLOGY. THIS EDITED WORK WILL APPEAL TO SCHOLARS AND ALL LEVELS, FROM UNDERGRADUATES TO RESEARCHERS, AND TO THOSE INTERESTED IN A VARIETY OF SCHOLARLY APPROACHES SUCH AS SYSTEMS BIOLOGY, MATHEMATICAL AND COMPUTATIONAL MODELLING, CELL AND MOLECULAR BIOLOGY, GENOMICS, SYSTEMS THEORY, AND OF COURSE, PHILOSOPHY OF BIOLOGY.

PHILOSOPHY OF BIOLOGY TODAY - LUCYLE T WERKMEISTER PROFESSOR OF PHILOSOPHY AND DIRECTOR OF THE PROGRAM IN THE HISTORY AND PHILOSOPHY OF SCIENCE MICHAEL RUSE 1988-01-01

"AS MOLECULAR BIOLOGISTS PEER EVER MORE DEEPLY INTO LIFE'S MYSTERIES, THERE ARE THOSE WHO FEAR THAT SUCH 'REDUCTIONISM' CONCEALS MORE THAN IT REVEALS, AND THERE ARE THOSE WHO COMPLAIN THAT THE NEW TECHNIQUES THREATEN THE PHYSICAL SAFETY OF US ALL. AS STUDENTS OF EVOLUTION APPLY THEIR UNDERSTANDING TO OUR OWN SPECIES, SOME PEOPLE THINK THAT THIS IS MERELY AN EXCUSE FOR RACIST AND SEXIST PROPAGANDA, AND OTHERS WORRY THAT THE WHOLE EXERCISE BLATANTLY VIOLATES THE RELIGIOUS BELIEFS MANY HOLD DEAR. THESE CONTROVERSIES ARE THE JOINT CONCERNS OF BIOLOGISTS AND PHILOSOPHERS--OF THOSE WHOSE TASK IT IS TO STUDY THE THEORETICAL AND MORAL FOUNDATIONS OF KNOWLEDGE"--FROM PUBLISHER DESCRIPTION.