

*MICROBIAL
PHYLOGENY
AND EVOLUTION*



CONCEPTS AND CONTROVERSIES

EDITED BY

— *JAN SAPP* —

Microbial Phylogeny And Evolution Concepts And Controversies

William F. Martin, Miklós Müller



Microbial Phylogeny And Evolution Concepts And Controversies:

Microbial Phylogeny and Evolution Jan Sapp, 2023 The extent of lateral gene transfer amongst diverse microbes is raising doubt as to the applicability of the concept of species in the microbial world Leading microbial evolutionists discuss phylogeny evolutionary theory in the light of the latest discoveries

Microbial Phylogeny and Evolution Jan Sapp, 2005-03-03 The birth of bacterial genomics since the mid 1990s brought with it several conceptual modifications and wholly new controversies Working beyond the scope of the neo Darwinian evolutionary synthesis a group of leading microbial evolutionists addresses the following and related issues often with markedly varied viewpoints Did the eukaryotic nucleus cytoskeleton and cilia also originate from symbiosis Do the current scenarios about the origin of mitochondria and plastids require revision What is the extent of lateral gene transfer between species among bacteria Does the rDNA phylogenetic tree still stand in the age of genomics Is the course of the first 3 billion years of evolution even knowable

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

New Visions of Nature Martin A. M. Drenthen, F.W. Jozef Keulartz, James Proctor, 2009-07-23 *New Visions of Nature* focuses on the emergence of these new visions of complex nature in three domains The first selection of essays reflects public visions of nature that is nature as it is experienced encountered and instrumentalized by diverse publics The second selection zooms in on micro nature and explores the world of contemporary genomics The final section returns to the macro world and discusses the ethics of place in present day landscape philosophy and environmental ethics The contributions to this volume explore perceptual and conceptual boundaries between the human and the natural or between an out there and in here They attempt to specify how nature has been publicly and genomically constructed known and described through metaphors and re envisioned in terms of landscape and place By parsing out and rendering explicit these divergent views the volume asks for a re thinking of our

relationship with nature **Vitalism and the Scientific Image in Post-Enlightenment Life Science, 1800-2010**

Sebastian Normandin, Charles T. Wolfe, 2013-06-15 Vitalism is understood as impacting the history of the life sciences medicine and philosophy representing an epistemological challenge to the dominance of mechanism over the last 200 years and partly revived with organicism in early theoretical biology The contributions in this volume portray the history of vitalism from the end of the Enlightenment to the modern day suggesting some reassessment of what it means both historically and conceptually As such it includes a wide range of material employing both historical and philosophical methodologies and it is divided fairly evenly between 19th and 20th century historical treatments and more contemporary analysis This volume presents a significant contribution to the current literature in the history and philosophy of science and the history of medicine **Bacterial Volatile Compounds as Mediators of Airborne Interactions** Choong-Min Ryu, Laure

Weisskopf, Birgit Piechulla, 2020-08-26 This book covers the fundamentals of bacterial volatile mediated communication with other organisms starting with the biosyntheses of volatile organic compounds VOC interactions with plants and animals interactions with microbes tools for data analysis and their applications With this foundation in place the book subsequently focuses on understanding the effect of bacterial volatiles on plant growth promotion discusses plant immunity and lastly shares insights into future research directions The book is divided into fourteen in depth chapters each of which is designed to enrich readers understanding of bacterial volatile compounds functions and various applications The pivotal roles of bacterial volatile compounds make this book essential reading for scientists and students of all biological disciplines seeking to fully understand microorganism responses and environmental adaptations In addition to its value as a fundamental book for graduate students it offers a clearly structured reference guide for all individuals working in microbiology **The New**

Foundations of Evolution Jan Sapp, 2009-07-24 This book presents a history of microbial evolutionary biology from the 19th century to the present It follows the research of molecular evolutionists who explore the origins of the genetic system and the primary life forms three domains and multiple kingdoms created by mechanisms very unlike those considered by Darwin and his followers *Species Tree Inference* Laura Kubatko, L. Lacey Knowles, 2023-03-14 An up to date reference book on phylogenetic methods and applications for evolutionary biologists The increasingly widespread availability of genomic data is transforming how biologists estimate evolutionary relationships among organisms and broadening the range of questions that researchers can test in a phylogenetic framework *Species Tree Inference* brings together many of today's leading scholars in the field to provide an incisive guide to the latest practices for analyzing multilocus sequence data This wide ranging and authoritative book gives detailed explanations of emerging new approaches and assesses their strengths and challenges offering an invaluable context for gauging which procedure to apply given the types of genomic data and processes that contribute to differences in the patterns of inheritance across loci It demonstrates how to apply these approaches using empirical studies that span a range of taxa timeframes of diversification and processes that cause the

evolutionary history of genes across genomes to differ By fully embracing this genomic heterogeneity Species Tree Inference illustrates how to address questions beyond the goal of estimating phylogenetic relationships of organisms enabling students and researchers to pursue their own research in statistically sophisticated ways while charting new directions of scientific discovery

Genesis - In The Beginning Joseph Seckbach, 2012-03-19 Genesis In The Beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where hot or cold sources and when the beginning of Life took place Among the sections are chapters dealing with prebiotic chemical processes and considering self replication of polymers in mineral habitats One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life This volume covers the role of symmetry information and order homochiral biomolecules in the beginning of Life The models of protocells and the genetic code with gene transfer are important topics in this volume Three chapters discuss the Panspermia hypothesis to answer Are we from outer Space Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere and its connection to Earth We conclude with the history and frontiers of Astrobiology

Environmental and Microbial Relationships Christian P. Kubicek, Irina S. Druzhinina, 2007-09-20 This volume provides insight into current research on fungal populations and communities It focuses on fungal responses to the physical environment interactions with other fungi microorganisms and invertebrates the role of fungi in ecosystem processes such as decomposition and nutrient cycling and aspects of biogeography and conservation The second edition has been completely updated and revised to accommodate the introduction of molecular methods and the flood of new findings since then

How Molecular Forces and Rotating Planets Create Life Jan Spitzer, 2021-02-09 A reconceptualization of origins research that exploits a modern understanding of non covalent molecular forces that stabilize living prokaryotic cells Scientific research into the origins of life remains exploratory and speculative Science has no definitive answer to the biggest questions What is life and How did life begin on earth In this book Jan Spitzer reconceptualizes origins research by exploiting a modern understanding of non covalent molecular forces and covalent bond formation a physicochemical approach propounded originally by Linus Pauling and Max Delbrück Spitzer develops the Pauling Delbrück premise as a physicochemical jigsaw puzzle that identifies key stages in life's emergence from the formation of first oceans tidal sediments and proto biofilms to progenotes proto cells and the first cellular organisms

Species John S. Wilkins, 2018-01-29 Over time the complex idea of species has evolved yet its meaning is far from resolved This comprehensive work is a fresh look at an idea central to the field of biology by tracing its history from antiquity to today Species is a benchmark exploration and clarification of a concept fundamental to the past present and future of the natural sciences In this edition a section is added on the debate over species since the time of the New Synthesis and brings the book up to date A section on recent philosophical debates over species has also been added This edition is better suited non specialists in philosophy so that it will be of greater use for scientists wishing to understand how the notion came to be

that living organisms form species Key Selling Features Covers the philosophical and historical development of the concept of species Documents that variation was recognized by pre Darwinian scholars Includes a section on the debates since the time of the New Synthesis Better suited to non philosophers

The Tangled Tree David Quammen,2019-08-06 In this New York Times bestseller and longlist nominee for the National Book Award our greatest living chronicler of the natural world The New York Times David Quammen explains how recent discoveries in molecular biology affect our understanding of evolution and life s history In the mid 1970s scientists began using DNA sequences to reexamine the history of all life Perhaps the most startling discovery to come out of this new field the study of life s diversity and relatedness at the molecular level is horizontal gene transfer HGT or the movement of genes across species lines It turns out that HGT has been widespread and important we now know that roughly eight percent of the human genome arrived sideways by viral infection a type of HGT In The Tangled Tree the grandest tale in biology David Quammen presents the science and the scientists involved with patience candor and flair Nature We learn about the major players such as Carl Woese the most important little known biologist of the twentieth century Lynn Margulis the notorious maverick whose wild ideas about mosaic creatures proved to be true and Tsutomu Wantanabe who discovered that the scourge of antibiotic resistant bacteria is a direct result of horizontal gene transfer bringing the deep study of genome histories to bear on a global crisis in public health David Quammen proves to be an immensely well informed guide to a complex story The Wall Street Journal In The Tangled Tree he explains how molecular studies of evolution have brought startling recognitions about the tangled tree of life including where we humans fit upon it Thanks to new technologies we now have the ability to alter even our genetic composition through sideways insertions as nature has long been doing The Tangled Tree is a source of wonder Quammen has written a deep and daring intellectual adventure The Boston Globe

Power, Sex, Suicide Nick Lane,2005 Seeking answers to some of the biggest questions in biology this book looks at our world from the viewpoint of mitochondria from the rise of complex life to the search for our own origins from sex fertility and death to the prospects of immortality The outcome is a new insight into the nature of life itself

Origin of Mitochondria and Hydrogenosomes William F. Martin,Miklós Müller,2007-01-26 The evolutionary origins of hydrogenosomes have been the subject of considerable debate This volume closes the gap between the endosymbiotic theory for the origin of organelles and their incorporation into evolutionary theory It reveals that identifying the genetic contribution to eukaryotes of the mitochondrial endosymbiosis and revealing the functions of its descendent organelles are key to understanding eukaryotic biology and evolution

Chimeras and Consciousness Lynn Margulis,Celeste A. Asikainen,Wolfgang E. Krumbein,2011-04-22 Scientists elucidate the astounding collective sensory capacity of Earth and its evolution through time Chimeras and Consciousness begins the inquiry into the evolution of the collective sensitivities of life Scientist scholars from a range of fields including biochemistry cell biology history of science family therapy genetics microbial ecology and primatology trace the emergence and evolution of consciousness Complex

behaviors and the social imperatives of bacteria and other life forms during 3 000 million years of Earth history gave rise to mammalian cognition Awareness and sensation led to astounding activities millions of species incessantly interacted to form our planet s complex conscious system Our planetmates all of them conscious to some degree were joined only recently by us the aggressive modern humans From social bacteria to urban citizens all living beings participate in community life Nested inside families within communities inside ecosystems each metabolizes takes in matter expends energy and excretes Each of the members of our own and other species in groups with incessantly shifting alliances receives and processes information Mergers of radically different life forms with myriad purposes the chimeras of the title underlie dramatic metamorphosis and other positive evolutionary change Since early bacteria avoided produced and eventually used oxygen Earth s sensory systems have expanded and complexified The provocative essays in this book going far beyond science but undergirded by the finest science serve to put sensitive sensible life in its cosmic context

The Nature of Nature Bruce Gordon, William Dembski, 2014-04-29 The intellectual and cultural battles now raging over theism and atheism conservatism and secular progressivism dualism and monism realism and antirealism and transcendent reality versus material reality extend even into the scientific disciplines This stunning new volume captures this titanic clash of worldviews among those who have thought most deeply about the nature of science and of the universe itself Unmatched in its breadth and scope The Nature of Nature brings together some of the most influential scientists scholars and public intellectuals including three Nobel laureates across a wide spectrum of disciplines and schools of thought Here they grapple with a perennial question that has been made all the more pressing by recent advances in the natural sciences Is the fundamental explanatory principle of the universe life and self conscious awareness to be found in inanimate matter or immaterial mind The answers found in this book have profound implications for what it means to do science what it means to be human and what the future holds for all of us

Atmospheric Evolution on Inhabited and Lifeless Worlds David C. Catling, James F. Kasting, 2017-04-13 As the search for Earth like exoplanets gathers pace in order to understand them we need comprehensive theories for how planetary atmospheres form and evolve Written by two well known planetary scientists this text explains the physical and chemical principles of atmospheric evolution and planetary atmospheres in the context of how atmospheric composition and climate determine a planet s habitability The authors survey our current understanding of the atmospheric evolution and climate on Earth on other rocky planets within our Solar System and on planets far beyond Incorporating a rigorous mathematical treatment they cover the concepts and equations governing a range of topics including atmospheric chemistry thermodynamics radiative transfer and atmospheric dynamics and provide an integrated view of planetary atmospheres and their evolution This interdisciplinary text is an invaluable one stop resource for graduate level students and researchers working across the fields of atmospheric science geochemistry planetary science astrobiology and astronomy

The Design of Life William A Dembski, Jonathan Wells, 2008 The Design of Life written by two leading intelligent design theorists

offers the clearest most comprehensive treatment of intelligent design on the market with answers to Darwinists objections drawn unrelentingly from the recent science literature **Immunity** Alfred I. Tauber, 2017-01-02 In *Immunity* Alfred Tauber sets forth a new theory of immunology that rejects the common principle of self and non self and the immune system's role as a protector of the self from external threats Rather than serving to defend an independent entity he argues immunity participates in a large complex eco system of porous and flexible boundaries Tauber's new approach to immunology necessitates a new biology in which symbiosis is the rule not the exception

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