

Pierre Pontarotti
Editor

Evolutionary Biology

Concepts,
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Evolutionary Biology Concepts Molecular And Morphological Evolution

Michael Heads



Evolutionary Biology Concepts Molecular And Morphological Evolution:

Evolutionary Biology - Concepts, Molecular and Morphological Evolution Pierre Pontarotti, 2010-08-24 The annual Evolutionary Biology Meetings in Marseille aim to bring together leading scientists promoting an exchange of state of the art knowledge and the formation of inter group collaborations This book presents the most representative contributions to the 13th meeting which was held in September 2009 It comprises 21 chapters which are organized into the following three categories Evolutionary Biology Concepts Genome Molecular Evolution Morphological Evolution Speciation This book offers an up to date overview of evolutionary biology concepts and their use in the biology of the 21st century

Biology and Evolution of the Mollusca, Volume 1 Winston Frank Ponder, David R. Lindberg, Juliet Mary Ponder, 2019-11-18 Molluscs comprise the second largest phylum of animals after arthropods occurring in virtually all habitats Some are commercially important a few are pests and some carry diseases while many non marine molluscs are threatened by human impacts which have resulted in more extinctions than all tetrapod vertebrates combined This book and its companion volume provide the first comprehensive account of the Mollusca in decades Illustrated with hundreds of colour figures it reviews molluscan biology genomics anatomy physiology fossil history phylogeny and classification This volume includes general chapters drawn from extensive and diverse literature on the anatomy and physiology of their structure movement reproduction feeding digestion excretion respiration nervous system and sense organs Other chapters review the natural history including ecology of molluscs their interactions with humans and assess research on the group Key features of both volumes up to date treatment with an extensive bibliography thoroughly examines the current understanding of molluscan anatomy physiology and development reviews fossil history and phylogenetics overviews ecology and economic values and summarises research activity and suggests future directions for investigation Winston F Ponder was a Principal Research Scientist at The Australian Museum in Sydney where he is currently a Research Fellow He has published extensively over the last 55 years on the systematics evolution biology and conservation of marine and freshwater molluscs as well as supervised post graduate students and run university courses David R Lindberg is former Chair of the Department of Integrative Biology Director of the Museum of Paleontology and Chair of the Berkeley Natural History Museums all at the University of California He has conducted research on the evolutionary history of marine organisms and their habitats on the rocky shores of the Pacific Rim for more than 40 years The numerous elegant and interpretive illustrations were produced by Juliet Ponder

Phylogeny and Evolution of Bacteria and Mitochondria Mauro Degli Esposti, 2018-10-26 Life on earth began with bacteria which now colonize every corner of the planet As the ancestors of mitochondria bacteria are also fundamental for our cells Most bacteria look alike but have very different functions Therefore knowing the functional profile of bacteria helps understand their impact on our life This book provides a wealth of information on the functional evolution of bacteria in a novel and coherent way The book is aimed towards scientists as well as those who are curious about the world of bacteria and their

relationships with mitochondria the powerhouses of our cells and us Biology of Macrofungi Bhim Pratap Singh, Lallawmsanga, Ajit Kumar Passari, 2019-01-24 Mushrooms are fleshy fungi with a high prospective for the production of secondary metabolites including extracellular enzymes with high agricultural and biotechnological significance Worldwide they are well recognized as supplementary foods due to their high nutritional values and their medicinal importance which includes their uses in exhibiting antioxidant and antimicrobial activities immune enhancer and to be effective for the treatment of several diseases including diabetes and few types of cancers as well According to recent studies extracellular enzymes produced by several white rot fungal strains such as *Phanerochaete chrysosporium* *Pleurotus sajor caju* and several mushrooms have shown a high capacity to decolorize dyes that are very harmful for the environment Moreover wild macrofungi have the capability to synthesize nanoparticles which are more useful for the treatment of cancer gene therapy DNA analysis and biosensors Wild macrofungi are extremely important model for basic biology and commercial manufacture

The Evolution of Parental Care Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 2012-08-09 Parental care includes a wide variety of traits that enhance offspring development and survival This novel book provides a fresh perspective on the current state of the study of the evolution of parental care written by some of the top researchers in the field and taking a broad taxonomic approach

Molecular Ecology and Conservation Genetics of Neotropical Mammals Maximiliano Nardelli, Juan Ignacio Túnez, 2021-04-02 Although all living beings modify their environment human beings have acquired the ability to do so on a superlative space time scale As a result of industrialization and the use of new technologies the anthropogenic impact has been increasing in the last centuries causing reductions in the sizes or the extinction of numerous wild populations In this sense from the field of conservation genetics various efforts have been made in recent decades to provide new knowledge that contributes to the conservation of populations species and habitats In this book we summarize the concrete contributions of researchers to the conservation of the Neotropical mammals using Molecular Ecology techniques The book is divided into three major sections The first section provides an up to date review of the conservation status of Neotropical mammals the applications of the molecular markers in its conservation and the use of non invasive and forensic genetic techniques The second and third sections present respectively a series of case studies in various species or taxonomic groups of Neotropical mammals

Parasitoid Wasps of South East Asia Buntika A. Butcher, Donald L. J. Quicke, 2023-12-22 Parasitoid wasps are cosmopolitan numerous and enormously diverse with probably one million or more species worldwide most of which occur in the moist tropics Their ecological importance is enormous although perhaps most evident in their major roles in the control of insect pest populations In natural ecosystems they are integral in regulating populations of a vast number of insects and therefore are key players in terrestrial food webs Knowledge of their biology is still very poor because the current state of taxonomy is still in its infancy in most parts of the world In this book we provide an overview of the more than 30 families of parasitoid wasps that occur in the 11 countries in South East Asia Particular

emphasis is given to those most commonly encountered and reared as well as to those used in biological control programmes. Outlines of the morphology, biology, ecology and behaviour of each family as well as of various important subfamilies are presented. The current state of taxonomy in the region is summarised. Other chapters cover basic biology, behaviour, morphological terminology, phylogeny and methods of specimen collecting, preparation and rearing with particular relevance to the tropics. Modern molecular approaches to speeding taxonomic description of hyperdiverse taxa are considered in depth. All groups are illustrated with colour photographs. This book will be of value to professional entomologists, academics, entomology students and the growing body of amateur entomologists and insect photographers. **Handbook of**

Agricultural Biotechnology, Volume 5 Charles Oluwaseun Adetunji, Chukwuebuka Egbuna, Anton Fikai, Oluwatosin Ademola Ijabadeniyi, 2024-09-19. This book details recent advances in the applications of nanobiofertilizers as a substitute for synthetic fertilizers in boosting food production. With the steady rise of the world's population, there is a need to increase the production of safe and nutritious food. The constant loss of arable land as a result of various anthropogenic activities from human action has become a threat to global biodiversity and ecosystems. Additionally, the issue of climate change has imposed many obstacles to increasing agricultural productivity, especially from biotic and abiotic stressors and temperature-limited environments such as in high altitudes or seasonally hot regions. Because of these factors, there is a need to adopt sustainable and modern technologies that can boost and improve the rate of food production. One of the cheapest means of enhancing sustainable food production is to explore natural and unlimited beneficial microorganisms, particularly those that can increase the level of soil fertility, improve crop production and health, improve tolerance to stress, support nutrient uptake and availability, and boost natural biodiversity. The synergetic effect of nanotechnology and beneficial microorganisms for the effective bio-fabrication of nanobiofertilizers is a sustainable solution for producing pesticide-free food. This book provides a deep insight into microbial diversity, recent techniques used for the isolation, screening and characterization of beneficial microorganisms with eco-friendly attributes used for bioengineering of nanobiofertilizers, as well as the application of proteomics, metabolomics, genomics and bioinformatics. The book also covers commercialization, patents and the business and socio-economic aspects of nanobiofertilizers, as well as the role of policymakers, stakeholders and government agencies in the translation of nanobiofertilizer research into policy. Audience: The book is a useful resource for a diverse audience including industrialists, food industry professionals, agriculturists, agricultural microbiologists, plant pathologists, botanists, microbiologists, biotechnologists, nanotechnologists, microbial biotechnologists, farmers, policymakers and extension workers.

The New Foundations of Evolution Jan Sapp, 2009-11-05. 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. *Biogeography and Evolution in New Zealand* Michael Heads, 2016-10-04. Biogeography and

Evolution in New Zealand provides the first in depth treatment of the biogeography of New Zealand a region that has been a place of long enduring interest to ecologists evolutionary scientists geographers geologists and scientists in related disciplines It serves as a key addition to the contemporary discussion on regionalization how is New Zealand different from the rest of the world With what other areas does it share its geology history and biota Do new molecular phylogenies show that New Zealand may be seen as a biological parallel universe within global evolution **Wiley-Blackwell Student**

Dictionary of Human Evolution Bernard Wood, 2015-02-23 Not so long ago all a student studying human evolution needed was a familiarity with the relatively sparse fossil record and what limited information there was about the context of the sites a basic knowledge of gross anatomy and archeology and an understanding of simple analytical methods Times have changed The fossil record has grown exponentially imaging techniques have advanced dramatically quantitative methods have burgeoned and molecular biology has revolutionized our understanding of genetics evolutionary history and development Added to this are advances in the archeological biological and earth sciences that help interpret the context of the fossil evidence and reconstruct behavior But presently there is nowhere students of human evolution can easily find out about topics as disparate as ameloblast Coopers Cave daily secretion rate the effect hypothesis homeobox genes insolation phylogenetically independent contrasts quantitative trait locus semicircular canals and tephrostratigraphy The Wiley Blackwell Student Dictionary of Human Evolution contains upwards of 2500 entries all drafted with an eye on the student user It is an indispensable source for those studying human evolution **The Braconid and Ichneumonid Parasitoid**

Wasps Donald L. J. Quicke, 2015-01-20 The Ichneumonoidea is a vast and important superfamily of parasitic wasps with some 60 000 described species and estimated numbers far higher especially for small bodied tropical taxa The superfamily comprises two cosmopolitan families Braconidae and Ichneumonidae that have largely attracted separate groups of researchers and this to a considerable extent has meant that understanding of their adaptive features has often been considered in isolation This book considers both families highlighting similarities and differences in their adaptations The classification of the whole of the Ichneumonoidea along with most other insect orders has been plagued by typology whereby undue importance has been attributed to particular characters in defining groups Typology is a common disease of traditional taxonomy such that until recently quite a lot of taxa have been associated with the wrong higher clades The sheer size of the group and until the last 30 or so years lack of accessible identification materials has been a further impediment to research on all but a handful of lab rat species usually cultured initially because of their potential in biological control New evidence largely in the form of molecular data have shown that many morphological behavioural physiological and anatomical characters associated with basic life history features specifically whether wasps are ecto or endoparasitic or idiobiont or koinobiont can be grossly misleading in terms of the phylogeny they suggest This book shows how with better supported phylogenetic hypotheses entomologists can understand far more about the ways natural selection is acting upon

them This new book also focuses on this superfamily with which the author has great familiarity and provides a detailed coverage of each subfamily emphasising anatomy taxonomy and systematics biology as well as pointing out the importance and research potential of each group Fossil taxa are included and it also has sections on biogeography global species richness culturing and rearing and preparing specimens for taxonomic study The book highlights areas where research might be particularly rewarding and suggests systems groups that need investigation The author provides a large compendium of references to original research on each group This book is an essential workmate for all postgraduates and researchers working on ichneumonoid or other parasitic wasps worldwide It will stand as a reference book for a good number of years and while rapid advances in various fields such as genomics and host physiological interactions will lead to new information as an overall synthesis of the current state it will stay relevant for a long time

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

The Character Concept in Evolutionary Biology Günter P. Wagner, 2000-10-31 Almost all evolutionary biologists indeed all biologists use particular features to study life These characteristics or features used by evolutionary biologists are used in a particular way to unravel a tangled evolutionary history document the rate of evolutionary change or as evidence of biodiversity Characters are the data of evolutionary biology and they can be employed differently in research providing both opportunities and limitations The Character Concept in Evolutionary Biology is about characters their use how different sorts of characters are limited and what are appropriate methods for character analysis Leading evolutionary biologists from around the world are contributors to this authoritative review of the character concept Because characters and the conception of characters are central to all studies of evolution and because evolution is the central organizing principle of biology this book will appeal to a wide cross section of biologists Focuses upon characters fundamental data for evolutionary biology Covers the myriad ways in which characters are defined described and distinguished Includes historical morphological molecular behavioral and philosophical perspectives

Evolutionary Biology: Contemporary and Historical Reflections Upon Core Theory Thomas E. Dickins, Benjamin J.A. Dickins, 2023-03-08 This book is reflecting upon core theories in evolutionary biology in a historical as well as contemporary context It exposes the main areas of interest for discussion but more importantly draws together hypotheses and future research directions The Modern Synthesis MS sometimes referred to as Standard Evolutionary Theory SET in evolutionary biology has been well documented and discussed but was also critically scrutinized over the last decade Researchers from diverse disciplinary backgrounds have claimed that there is a need for an extension to that theory and have called for an Extended Evolutionary Synthesis EES The book starts with an introductory chapter that summarizes the main points of the EES claim and indicates where those points receive treatment later in the book This introduction to the subjects can either serve as an initiation for readers new to the

debate or as a guide for those looking to pursue particular lines of enquiry The following chapters are organized around historical perspectives theoretical and philosophical approaches and the use of specific biological models to inspect core ideas Both empirical and theoretical contributions have been included The majority of chapters are addressing various aspects of the EES position and reflecting upon the MS Some of the chapters take historical perspectives analyzing various details of the MS and EES claims Others offer theoretical and philosophical analyses of the debate or take contemporary findings in biology and discuss those findings and their possible theoretical interpretations All of the chapters draw upon actual biology to make their points This book is written by practicing biologists and behavioral biologists historians and philosophers many of them working in interdisciplinary fields It is a valuable resource for historians and philosophers of biology as well as for biologists Chapters 8 20 22 and 33 are available open access under a Creative Commons Attribution 4 0 International License via link.springer.com

Molecular Panbiogeography of the Tropics Michael Heads, 2012-01-04 Molecular studies reveal highly ordered geographic patterns in plant and animal distributions The tropics illustrate these patterns of community immobilism leading to allopatric differentiation as well as other patterns of mobilism range expansion and overlap of taxa Integrating Earth history and biogeography Molecular Panbiogeography of the Tropics is an alternative view of distributional history in which groups are older than suggested by fossils and fossil calibrated molecular clocks The author discusses possible causes for the endemism of high level taxa in tropical America and Madagascar and overlapping clades in South America Africa and Asia The book concludes with a critique of adaptation by selection founded on biogeography and recent work in genetics

Encyclopedia of Evolutionary Biology, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

Diatoms Nilesh Agarwal, 2025-02-20 *Diatoms Basic and Applied Research* offers an insightful journey into the microscopic world of diatoms

single celled algae encased in intricate silica shells Authored by leading experts this comprehensive book delves into the fundamental aspects of diatom biology ecology and evolution while highlighting their wide ranging applications in various fields We explore their role as primary producers in aquatic ecosystems and their significance in paleoclimate reconstruction unravelling the fascinating mysteries surrounding these tiny organisms Additionally we examine the practical applications of diatoms in industries such as biotechnology nanotechnology and environmental monitoring showcasing their potential for sustainable solutions and technological innovations With clear explanations and engaging illustrations *Diatoms Basic and Applied Research* caters to both novice readers and seasoned researchers looking to deepen their understanding of these remarkable microorganisms Whether you re a biologist ecologist or simply curious about the wonders of nature this book offers valuable insights into the importance and versatility of diatoms in our world today

BIOLINGVISTICĂ Alexandru GAFTON,2024-01-01 Scrierea de fa ncearc a n elege condi iile constitutive existen iale func ionale i ale devenirii limbajului gestual i vocal articulat al omului n acest scop ea integreaz teorii existente din mai multe domenii ale cunoa terii Ap rut pe cale procesual istoric limbajul omenesc este consecin a dezvolt rii unor poten iale biologice de ordin anatomo fiziologic ca r spuns la solicit rile mediilor comunitar sociale De i n m suri diferite prin ac iunile unor seturi de factori i a unor secven e de contingen e determinan ii genetic i de mediu asigurat t echiparea membrilor speciei cu componentele anatomo fiziologice care fac posibil acest atribut c t i acomodarea la starea i la cerin ele concrete ale comunit ii particulare Prin urmare organele audio articulatorie i produsele ac iunilor lor lingvistice sunt n cel mai nalt grad rezultatele generate de factorii care ac ioneaz la nivelul speciei i apoi al comunit ii De aceea rezultatele proceselor de constituire func ionare deprindere exersare dezvoltare adaptare i evolu ie ale organelor audio articulatorii i ale produselor lingvistice concrete ale acestora vor fi unitare n chipul n care specia constituie un ansamblu n rela ie cu altele i diferen iate n chipul n care se diferen iaz indivizii n s nul speciei Organele i produc ia lor lingvistic aadar vor fi determinate de tr s turile dominante ale speciei iar apoi de cele speciale ale comunit ii concrete i particulare n al c rei s n se constituie exerseaz i func ionalizeaz organele i efectele ac iunilor lor

The Origin of Higher Taxa T.S. Kemp,2015-12-16 In the grand sweep of evolution the origin of radically new kinds of organisms in the fossil record is the result of a relatively simple process natural selection marching through the ages Or is it Does Darwinian evolution acting over a sufficiently long period of time really offer a complete explanation or are unusual genetic events and particular environmental and ecological circumstances also involved With *The Origin of Higher Taxa* Tom Kemp sifts through the layers of paleobiological genetic and ecological evidence on a quest to answer this essential game changing question of biology Looking beyond the microevolutionary force of Darwinian natural selection Kemp enters the realm of macroevolution or evolution above the species level From the origin of mammals to the radiation of flowering plants these large scale patterns such as the rise of novel organismal design adaptive radiations and lineage extinctions encompass the most significant trends and transformations in evolution As macroevolution cannot be studied by direct

observation and experiment scientists have to rely on the outcome of evolution as evidence for the processes at work in the form of patterns of species appearances and extinctions in a spotty fossil record and through the nature of species extant today. Marshalling a wealth of new fossil and molecular evidence and increasingly sophisticated techniques for their study, Kemp here offers a timely and original reinterpretation of how higher taxa such as arthropods, mollusks, mammals, birds, and whales evolved, a bold new take on the history of life.

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