

The Cambridge Encyclopedia Of Human Evolution

Cambridge Reference Book

Origin and Evolution of the Vertebrate Telencephalon, with Special Reference to the Mammalian Neocortex
Animal Behavior Desk Reference
21st Century Anthropology: A Reference Handbook
Evolution Of Language, The - Proceedings Of The 9th International Conference (Evolang9)
Primate Adaptation and Evolution
The Topological Model of Genome and Evolution
Evolution of Semantic Systems
Current Catalog
SuperCooperators
Evolutionary Finance
General History of the Caribbean - UNESCO
Evolutionary Worlds Without End
Biosphere
Origin and Evolution
Hierarchical Evolutionary-Developmental Theory
Evolutionary Genetics
International Handbook of Research in History, Philosophy and Science
Teaching
Leadership in Science and Technology: A Reference Handbook
Evolution
Dog Behaviour, Evolution, and Cognition
The Genetics of Human Populations
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how could a structure as complex as the vertebrate brain develop from the simplest multicellular animals natural selection offers an impeccable mechanism for the gradual transformation of species but even darwin sometimes expressed doubts about the origin of highly complex structures following an approach that has been termed developmental evolutionary genetics this book seeks to establish a correspondence between embryological processes and the phylogenetic history of an organism

revised and updated containing over 5 000 entries with over 1 100 more entries than in the previous edition animal behavior desk reference second edition a dictionary of behavior ecology and evolution provides definitions for terms in animal behavior biogeography evolution ecology genetics psychology statistics systematics and other related sciences formatted like a standard dictionary this reference presents definitions in a quick and easy to use style for each term where applicable you receive multiple definitions listed chronologically term hierarchies summarized in tables definition sources directives that show where a concept is defined under a synonymous name and concepts related to focal ones non technical and obsolete definitions pronunciations of selected terms common denominator entries synonyms classifications of organisms and descriptions of many taxa organizations related to animal behavior ecology evolution and related sciences still the most complete work of its kind animal behavior desk reference second edition a dictionary of behavior ecology and evolution will improve your scientific communication particularly in the fields of animal behavior evolution ecology and related branches of biology if you are a teacher student writer or active in science in any way this book will prove to be one of your most valuable resources

highlighting the most important topics issues questions and debates these two volumes offer full coverage of major subthemes and subfields within the discipline of anthropology

proceedings of evolang ix the 9th international conference on the evolution of language the evolang conferences are the leading international conferences for new findings in the study of the origins and evolution of language they attract a multidisciplinary audience the proceedings are an important resource for researchers in the field

primate adaptation and evolution third edition is a thorough revision of the text of choice for courses in primate evolution the book retains its grounding in the extant primate groups

as the best way to understand the fossil trail and the evolution of these modern forms however this coverage is now streamlined making reference to the many new and excellent books on living primate ecology and adaptation a field that has burgeoned since the first edition of primate adaptation and evolution by drawing out the key features of the extant families and referring to more detailed texts the author sets the scene and also creates space for a thorough updating of the exciting developments in primate palaeontology and the reconstruction through early hominid species of our own human origins this updated version covers recent developments in primate paleontology and the latest taxonomy and includes over 200 new illustrations and revised evolutionary trees this text is ideal for undergraduate and post graduate students studying the evolution and functional ecology of primates and early fossil hominids long awaited revision of the standard student text on primate evolution full coverage of newly discovered fossils and the latest taxonomy over 200 new illustrations and revised evolutionary trees

this book deals with the missing link in the domain of functional genomics viz genomic architecture it begins with a deconstruction of the darwinian paradigm using the proposed model of modified involuted manifolds it recasts the process of natural selection as a process of information transfer using a topological model this book outlines a new genomic architecture the key argument for this proposed model is that some such structuralism has always been implicit in genomics the proposed model fits very well with the known genomic characteristics and allows to separate the regulatory genome from the transcriptive genomes the model is capable of discerning modular architecture of genomes with different genomic functionalities existing in hierarchical relationships and demonstrates that genomes act as units of selection and as the environment for the individual genes which act as competing species towards the end the book also examines the role of genomic evolution in cancer and the principles of natural selection and evolution of the genotype the regulatory genome is also discussed with an emphasis on its evolution and natural selection it is a valuable source for researchers working in functional genomics mathematical modeling in biology and evolutionary genomics

complex systems in nature and society make use of information for the development of their internal organization and the control of their functional mechanisms alongside technical aspects of storing transmitting and processing information the various semantic aspects of information such as meaning sense reference and function play a decisive part in the analysis

of such systems with the aim of fostering a better understanding of semantic systems from an evolutionary and multidisciplinary perspective this volume collects contributions by philosophers and natural scientists linguists information and computer scientists they do not follow a single research paradigm rather they shed in a complementary way new light upon some of the most important aspects of the evolution of semantic systems evolution of semantic systems is intended for researchers in philosophy computer science and the natural sciences who work on the analysis or development of semantic systems ontologies or similar complex information structures in the eleven chapters they will find a broad discussion of topics ranging from underlying universal principles to representation and processing aspects to paradigmatic examples

first multi year cumulation covers six years 1965 70

looks at the importance of cooperation in human beings and in nature arguing that this social tool is as important an aspect of evolution as mutation and natural selection

the purpose of this book is to introduce the field of bioinformatics to financial modelling it focuses on the way information informs price and constructs a framework to explain information generation and the agglomeration process enabling the reader to make more effective financial decisions based on all aspects of applied finance this book uses informational analysis to help the reader understand the similarities between biomathematics and financial mathematics

volume 1 of the general history of the caribbean relates to the history of the origins of the earliest caribbean people and analyses their various political social cultural and economic organizations over time this volume investigates the movement of paleoindians into the islands and looks at the agricultural societies which developed it then explores the indigenous societies at the time of the spanish conquest the hierarchy of the chiefdoms and the development of slavery

in evolutionary worlds without end henry plotkin considers whether there is any general theory in biology including the social sciences that is in any way equivalent to the general theories of physics he starts by examining ernest rutherford s dictum as to what science is in the later chapters he considers the possibility within an historical framework of a general theory being based upon selection processes

this monograph contains articles based on the oral presentations given at the international workshop on the biosphere origin and evolution boe 2005 held in novosibirsk russia june 26 29 2005 the organizers of the event were the scientific programme of the presidium of the russian academy of sciences which involves 50 institutes of the russian academy of sciences

this book introduces a new evolutionary model called hierarchical evolutionary developmental theory or h evo devo theory this theory proposes that the organism s internal properties reflect entities that are highly integrated in developmental terms that evolve hierarchically in other words it attempts to demonstrate that developmental constraints operate at different scales producing distinct states of morphological stability reflected as subspecies species higher taxa and homologues all representing units of evolution in addition it reintroduces the concept of the organism in evolutionary biology supports a strictly macroevolutionary view and contemplates alternative evolutionary rates processes and mechanisms at different levels microevolution macroevolution megaevolution and modular evolution in short this book establishes a new synthesis between systematics morphology and evolution suggesting a significant shift in evolutionary thought the book comprises 1 a proposal for a new theory of evolution and systematics the h evo devo theory reinterprets the concepts of subspecies species higher taxa and homologues proposing that the phylogenetic tree is built on a hierarchy of types developed from the top down in contrast to the traditional bottom up approach 2 a novel hierarchical perspective that reveals the underlying mechanisms acting on the patterns of divergence stability and extinction of the units of evolution 3 a resolution to the ontological problem regarding units of evolution e g the reality of species and higher taxa 4 a historical narrative that focuses on the development of a hierarchy theory of evolution grounded in the type concept and the significance of an organism centered perspective 5 a challenge to traditional frameworks that have sought to establish hierarchies in an evolutionary context 6 a challenge to classical evolutionary statements such as gradualism punctuated equilibrium the extrapolationist premise and geographical models of speciation this book is written for those who feel that radical change is needed in evolutionary theory offering them a viable alternative

with recent technological advances vast quantities of genetic and genomic data are being generated at an ever increasing pace the explosion in access to data has transformed the field of evolutionary genetics a thorough understanding of evolutionary principles is essential for making sense of this but new skill sets are also needed to handle and analyze big data

this contemporary textbook covers all the major components of modern evolutionary genetics carefully explaining fundamental processes such as mutation natural selection genetic drift and speciation it also draws on a rich literature of exciting and inspiring examples to demonstrate the diversity of evolutionary research including an emphasis on how evolution and selection has shaped our own species practical experience is essential for developing an understanding of how to use genetic and genomic data to analyze and interpret results in meaningful ways in addition to the main text a series of online tutorials using the r language serves as an introduction to programming statistics and analysis indeed the r environment stands out as an ideal all purpose source platform to handle and analyze such data the book and its online materials take full advantage of the authors own experience in working in a post genomic revolution world and introduces readers to the plethora of molecular and analytical methods that have only recently become available evolutionary genetics is an advanced but accessible textbook aimed principally at students of various levels from undergraduate to postgraduate but also for researchers looking for an updated introduction to modern evolutionary biology and genetics

this inaugural handbook documents the distinctive research field that utilizes history and philosophy in investigation of theoretical curricular and pedagogical issues in the teaching of science and mathematics it is contributed to by 130 researchers from 30 countries it provides a logically structured fully referenced guide to the ways in which science and mathematics education is informed by the history and philosophy of these disciplines as well as by the philosophy of education more generally the first handbook to cover the field it lays down a much needed marker of progress to date and provides a platform for informed and coherent future analysis and research of the subject the publication comes at a time of heightened worldwide concern over the standard of science and mathematics education attended by fierce debate over how best to reform curricula and enliven student engagement in the subjects there is a growing recognition among educators and policy makers that the learning of science must dovetail with learning about science this handbook is uniquely positioned as a locus for the discussion the handbook features sections on pedagogical theoretical national and biographical research setting the literature of each tradition in its historical context it reminds readers at a crucial juncture that there has been a long and rich tradition of historical and philosophical engagements with science and mathematics teaching and that lessons can be learnt from these engagements for the resolution of current theoretical curricular and pedagogical questions that face teachers and

administrators science educators will be grateful for this unique encyclopaedic handbook
gerald holton physics department harvard university this handbook gathers the fruits of over
thirty years research by a growing international and cosmopolitan community fabio
bevilacqua physics department university of pavia

this 2 volume set within the sage reference series on leadership tackles issues relevant to
leadership in the realm of science and technology to encompass the key topics in this arena
this handbook features 100 topics arranged under eight headings volume 1 concentrates on
general principles of science and technology leadership and includes sections on social
scientific perspectives on s t leadership key scientific concepts about leading and innovating
in s t characteristics of s t leaders and their environments and strategies tactics and tools of
s t leadership volume 2 provides case studies of leadership in s t with sections considering
leadership in informal communities of scientists and engineers leadership in government
projects and research initiatives leadership in industry research development and innovation
and finally leadership in education and university based research by focusing on key topics
within 100 brief chapters this unprecedented reference resource offers students more detailed
information and depth of discussion than typically found in an encyclopedia entry but not as
much jargon detail or density as in a journal article or a research handbook chapter entries
are written in language and style that is broadly accessible and each is followed by cross
references and a brief bibliography and further readings a detailed index and an online
version of the work enhances accessibility for today s student audience

this book is aimed at students taking courses on evolution in universities and colleges its
approach and its structure are very different from previously published evolution texts the
core theme in this book is how evolution works by changing the course of embryonic and
post embryonic development in other words it is an evolution text that has been very much
influenced by the new approach of evolutionary developmental biology or evo devo key
themes include the following developmental repatterning adaptation and coadaptation gene
co option developmental plasticity the origins of evolutionary novelties and body plans and
evolutionary changes in the complexity of organisms as can be seen from this list the book
includes information across the levels of the gene the organism and the population it also
includes the issue of mapping developmental changes onto evolutionary trees the examples
used to illustrate particular points range widely including animals plants and fossils i have
really enjoyed reading this book one of the strengths of the book is the almost

conversational style i found the style easy to read but also feel that it will be invaluable in teaching one of our tasks in university level teaching is to develop students critical thinking skills we need to support them in their intellectual development from a just the facts approach to being able to make critical judgements based on available evidence the openness and honesty with which arthur speaks to uncertainty in science is refreshing and will be a baseline for discussions with students professor patricia moore exeter university this book written as an undergraduate text is a really most impressive book given the burgeoning interest in the role of developmental change in evolution in recent times this will be a very timely publication the book is well structured and like the author s other books very well written he communicates with a clear lucid style and has the ability to explain even the more difficult concepts in an accessible manner professor kenneth mcnamara university of cambridge the companion site can be found at wiley.com/go/arthur/evolution here you download all figures from the book captions tables and table of contents

this is the first book to collate and synthesize the recent burgeoning primary research literature on dog behaviour evolution and cognition the author presents a new ecological approach to the understanding of dog behaviour demonstrating how dogs can be the subject of rigorous and productive scientific study without the need to confine them to a laboratory environment this second fully updated edition of dog behaviour evolution and cognition starts with an overview of the conceptual and methodological issues associated with the study of the dog followed by a brief description of their role in human society an evolutionary perspective is then introduced with a summary of current research into the process of domestication the central part of the book is devoted to issues relating to the cognitive aspects of behaviour which have received particular attention in recent years from both psychologists and ethologists the book s final chapters introduce the reader to many novel approaches to dog behaviour set in the context of behavioural development and genetics this second edition recognises and discusses the fact that dogs are increasingly being used as model organisms for studying aspects of human biology such as genetic diseases and ageing specific attention is also given in this edition to attachment behaviour which emerges between humans and dogs the importance of inter specific communication in the success of dogs in human communities and the broad aspects of social cognition and how this may contribute to human dog cooperation directions for future research are highlighted throughout the text which also incorporates links to human and primate research by drawing on homologies and analogies in both evolution and behaviour the book will therefore be of

relevance and use to anyone with an interest in behavioural ecology including graduate students of animal behaviour and cognition as well as a more general audience of dog enthusiasts biologists psychologists veterinarians and sociologists

comprehensive advanced treatment of nature and source of inherited characteristics with treatment of mathematical techniques mendelian populations mutations polymorphisms genetic demography much more emphasizes interpretation of data in relation to theoretical models

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