



The Character Concept in Evolutionary Biology

Edited by Günter P. Wagner



Character Concept In Evolutionary Biology

Jason S. Anderson, Hans-Dieter Sues



Character Concept In Evolutionary Biology:

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

Ancestors in Evolutionary Biology Ronald A. Jenner, 2022-07-28 Exploration of the history and current practice of phylogenetics as a storytelling discipline that provides explanations for character evolution

Keywords and Concepts in Evolutionary Developmental Biology Brian K. Hall, Wendy M. Olson, Wendy Olson, 2003-05-30 Covering more than 50 central terms concepts the entries in this reference offer an overview of all that is embraced by the subdiscipline of evolutionary developmental biology providing core insights ideas that show how embryonic development relates to life history evolution adaptation

The Changing Role of the Embryo in Evolutionary Thought Ron Amundson, 2005-03-14 In this book Ron Amundson examines two hundred years of scientific views on the evolution development relationship from the perspective of evolutionary developmental biology evo devo This perspective challenges several popular views about the history of evolutionary thought by claiming that many earlier authors had made history come out right for the Evolutionary Synthesis The book starts with a revised history of nineteenth century evolutionary thought It then investigates how development became irrelevant with the Evolutionary Synthesis It concludes with an examination of the contrasts that persist between mainstream evolutionary theory and evo devo This book will appeal to students and professionals in the philosophy and history of science and biology

Modularity Werner Callebaut, Diego Rasskin-Gutman, 2005 Modularity the attempt to understand systems as integrations of partially independent and interacting units is today a dominant theme in the life sciences cognitive science and computer science The concept goes back at least implicitly to the Scientific or Copernican Revolution and can be found behind later theories of phrenology physiology and genetics moreover art engineering and mathematics rely on modular design principles This collection broadens the scientific discussion of modularity by bringing together experts from a variety of disciplines including artificial life cognitive science economics evolutionary computation developmental and evolutionary biology linguistics

mathematics morphology paleontology physics theoretical chemistry philosophy and the arts The contributors debate and compare the uses of modularity discussing the different disciplinary contexts of modular thinking in general including hierarchical organization near decomposability quasi independence and recursion or of more specialized concepts including character complex gene family encapsulation and mosaic evolution what modules are why and how they develop and evolve and the implication for the research agenda in the disciplines involved and how to bring about useful cross disciplinary knowledge transfer on the topic The book includes a foreword by the late Herbert A Simon addressing the role of near decomposability in understanding complex systems Contributors Lee Altenberg Lauren W Ancel Meyers Carl Anderson Robert B Brandon Angela D Buscalioni Raffaele Calabretta Werner Callebaut Anne De Joan Rafael Delgado Buscalioni Gunther J Eble Walter Fontana Fernand Gobet Alicia de la Iglesia Slavik V Jablan Luigi Marengo Daniel W McShea Jason Mezey D Kimbrough Oller Domenico Parisi Corrado Pasquali Diego Rasskin Gutman Gerhard Schlosser Herbert A Simon Roger D K Thomas Marco Valente Boris M Velichkovsky Gunter P Wagner Rasmus G Winter Vienna Series in Theoretical Biology

Handbook of Evolutionary Thinking in the Sciences Thomas Heams, Philippe Huneman, Guillaume Lecointre, Marc Silberstein, 2014-11-23 The Darwinian theory of evolution is itself evolving and this book presents the details of the core of modern Darwinism and its latest developmental directions The authors present current scientific work addressing theoretical problems and challenges in four sections beginning with the concepts of evolution theory its processes of variation heredity selection adaptation and function and its patterns of character species descent and life The second part of this book scrutinizes Darwinism in the philosophy of science and its usefulness in understanding ecosystems whilst the third section deals with its application in disciplines beyond the biological sciences including evolutionary psychology and evolutionary economics Darwinian morality and phylolinguistics The final section addresses anti Darwinism the creationist view and issues around teaching evolution in secondary schools The reader learns how current experimental biology is opening important perspectives on the sources of variation and thus of the very power of natural selection This work examines numerous examples of the extension of the principle of natural selection and provides the opportunity to critically reflect on a rich theory on the methodological rigour that presides in its extensions and exportations and on the necessity to measure its advantages and also its limits Scholars interested in modern Darwinism and scientific research its concepts research programs and controversies will find this book an excellent read and those considering how Darwinism might evolve how it can apply to the human sciences and other disciplines beyond its origins will find it particularly valuable Originally produced in French *Les Mondes Darwiniens* the scope and usefulness of the book have led to the production of this English text to reach a wider audience This book is a milestone in the impressive penetration by Francophone scholars into the world of Darwinian science its historiography and philosophy over the last two decades Alex Rosenberg R Taylor Cole Professor of Philosophy Duke University Until now this useful and comprehensive handbook has only been available to francophones

Thanks to this invaluable new translation this collection of insightful and original essays can reach the global audience it deserves Tim Lewens University of Cambridge *Species, Species Concepts and Primate Evolution* William H. Kimbel, Lawrence B. Martin, 2013-12-18 A world of categories devoid of spirit waits for life to return Saul Bellow Humboldt's Gift The stock in trade of communicating hypotheses about the historical path of evolution is a graphical representation called a phylogenetic tree In most such graphics pairs of branches diverge from other branches successively marching across abstract time toward the present To each branch is tied a tag with a name a binominal symbol that functions as does the name given to an individual human being On phylogenetic trees the names symbolize species What exactly do these names signify What kind of information is communicated when we claim to have knowledge of the following types *Tetodonius mathewzi* was ancestral to *Pseudotetodonius ambiguus* The sample of fossils attributed to *Homo habilis* is too variable to contain only one species Interbreeding populations of savanna baboons all belong to *Papio anubis* *Hylobates lar* and *H. pileatus* interbreed in zones of geographic overlap While there is nearly universal agreement that the notion of the species is fundamental to our understanding of how evolution works there is a very wide range of opinion on the conceptual content and meaning of such particular statements regarding species This is because oddly enough evolutionary biologists are quite far from agreement on what a species is how it attains this status and what role it plays in evolution over the long term

Homology, Genes, and Evolutionary Innovation Günter P. Wagner, 2024-11-01 Shows the sweep of Wagner's creative and rigorous thinking One of the most exciting books in evolutionary biology I have read in a long time Douglas J Futuyma coeditor of *The Princeton Guide to Evolution* Winner of the Daniel Giraud Elliot Medal National Academy of Sciences Homology a similar trait shared by different species and derived from common ancestry such as a seal's fin and a bird's wing is one of the most fundamental yet challenging concepts in evolutionary biology This groundbreaking book provides the first mechanistically based theory of what homology is and how it arises in evolution Günter Wagner one of the preeminent researchers in the field argues that homology or character identity can be explained through the historical continuity of character identity networks that is the gene regulatory networks that enable differential gene expression He shows how character identity is independent of the form and function of the character itself because the same network can activate different effector genes and thus control the development of different shapes sizes and qualities of the character Demonstrating how this theoretical model can provide a foundation for understanding the evolutionary origin of novel characters Wagner applies it to the origin and evolution of specific systems such as cell types skin hair and feathers limbs and digits and flowers The first major synthesis of homology to be published in decades *Homology Genes and Evolutionary Innovation* reveals how a mechanistically based theory can serve as a unifying concept for any branch of science concerned with the structure and development of organisms and how it can help explain major transitions in evolution and broad patterns of biological diversity Deeply thought provoking Peter Moore *The Bulletin* **Deep Morphology** Tod F.

Stuessy, Veronika Mayer, Elvira Hörandl, 2003 *Genetics phylogenesis ecology* Outlines of Evolutionary Biology Arthur Dendy, 1924 **History and Philosophy of the Life Sciences**, 1979 *Systematics and Evolution of Derelomine Flower Weevils (Coleoptera: Curculionidae)* Nico Mario Franz, 2005 *Molecular Evolution of Pyroglutamylated RFamide Peptide and Orphan G Protein Coupled Receptor* Rigters Bakiu, 2016-12-13 Document from the year 2016 in the subject Biology

Evolution grade Agricultural University of Tirana language English abstract G protein coupled receptors GPCRs are members of a large protein family that share common structural motifs including seven transmembrane helices and play pivotal roles in cell to cell communications and in the regulation of cell functions GPR103 is an orphan GPCR that shows similarities with orexin neuropeptide FF and cholecystokinin receptors In humans 26RFa QRFP has been found to be an endogenous ligand for the orphan receptor GPR103 and it is one of the RFamide peptides which have been shown to exert important neuroendocrine behavioural sensory and autonomic functions All the information we have till know couldn be available if we didn t know the evolution of this important proteins and the relative interactions which were discovered recently to be important for the regulation of locomotor activity sleep and these neuropeptides and receptors exert neuroprotective effect in Alzheimer s Disease Anyway there is a long way to be walked on because there is a need of additional information while studying the molecular evolution of these proteins and peptides What is the Molecular Evolution In the First chapter the readers can find all about this branch of science and the problems this branch had overcome in order to bring to the scientific community the molecularisation of the evolution concepts In the following chapter to the readers is presented a descriptive overview of G proteins and G protein coupled receptor In the other chapters it is also presented 26RFA QRFP and pyroglutamylated RFamide peptide receptor QRFP molecular evolution where it is described the molecular phylogeny and the functional implication It is even shown the unique study regarding the presence on natural selection positive or negative selection during the evolution of QRFPs in mammals and fish species In the end of the book are shown the recent important finding regarding the function and the role of QRFP and its receptor together with the experimental approach applied to zebrafish and rodents Anyway it is imperative to mention that all the available knowledge from experiments to these animals can be useful for the curation of disorders and other diseases like Alzheimer s Disease only if we could understand well their molecular evolution Major Transitions in Vertebrate Evolution Jason S. Anderson, Hans-Dieter Sues, 2007-09-11 New discoveries of ancient vertebrates filling in gaps in the fossil record are quickly eroding the traditionally recognized differences between the principal groups of vertebrates for example between dinosaurs and birds and radically changing our understanding of the evolutionary history of the major group of animals to which our species belongs This book describes this changing scientific landscape and contributes to the revolution in our knowledge of the developmental mechanisms that underlie evolutionary transformation **Interpreting the Hierarchy of Nature** Lance Grande, Olivier Rieppel, 1994-05-13 This book explores ways in which systematic patterns are used to infer evolutionary processes Among evolutionary biologists

and systematists there is a constant interchange between those that study the process of evolution e g mutation selection speciation and those that study its patterns e g variation geographic distribution ontogeny phylogeny Because patterns influence the development of theories and processes yield patterns it is not always easy to distinguish one from another This book is dialectic and helps crystallize a continuing debate over the relationship of patterns to process theories Contributions by leading systematists evolutionary biologists and philosophers Illustrates the debate over how and if evolutionary processes can be inferred from systematic patterns Illustrates a continuing interplay between systematics and evolutionary theory

Co-option, Homology, and Novelty in the Evolution of Gene Expression Patterns in the Sea Urchin Genus Heliocidaris
Alan Christopher Love, 2004 Physiological and Ecological Adaptations to Feeding in Vertebrates J. Matthias Starck, Tobias Wang, 2005 Responding to recent interest in the gastrointestinal tract as a model for studies in physiological and ecological adaptation to fluctuating environmental conditions this collection summarizes the current state of knowledge from an integrative perspective The contributors come from the fields of comparative morphology nutritional physiology eco
American Journal of Physical Anthropology Aleš Hrdlička, 2002 *American Journal of Botany*, 2002 *The American Naturalist*, 2009

Character Concept In Evolutionary Biology: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have captivated audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Character Concept In Evolutionary Biology : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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