

Evolutionary Biology

VOLUME 15

Edited by

MAX K. HECHT



Springer

Evolutionary Biology Volume 15

John Offer



Evolutionary Biology Volume 15:

Evolutionary Biology Max K. Hecht, Bruce Wallace, Gillean Tolmie Prance, 1982 *Evolutionary Biology* Theodosius Dobzhansky, Max K. Hecht, William C. Steere, 2012-12-06

1 On Some Fundamental Concepts of Darwinian Biology Vitalism Mechanism and Compositionism Adaptedness and Adaptation Adaptedness to Survive and to Reproduce Adaptability Evolutionary Plasticity The Problem of Quantification of Adaptedness Darwinian Fitness Varieties of Natural Selection Darwinian Fitness and Adaptedness Evolutionary Opportunism and Adaptive Radiation Progressive Evolution References

2 Cave Ecology and the Evolution of Troglodites Animal Life in Caves The Cave Ecosystem Regressive Evolution in Cave Animals Speciation and Adaptation in Troglod Evolutionary Biology Max Hecht, 2012-12-06

Evolutionary Biology of which this is the eighteenth volume continues to offer its readers a wide range of original articles reviews and commentaries on evolution in the broadest sense of that term The topics of the reviews range from anthropology and behavior to molecular biology and systematics In recent volumes a broad spectrum of articles have appeared on such subjects as natural selection among replicating molecules in vitro mate recognition and the reproductive behavior of *Drosophila* molecular systematics of Crocodilia evolution of the monocotyledons and the communication network made possible among even distantly related genera of bacteria by plasmids and other transposable elements Articles such as these often too long for standard journals are the stuff of *Evolutionary Biology* The editors continue to solicit manuscripts on an international scale in an effort to see that everyone of the many facets of biological evolution is covered Manuscripts should be sent to anyone of the following Max K Hecht Department of Biology Queens College of the City University of New York Flushing New York 11367 Bruce Wallace Department of Biology Virginia Polytechnic Institute and State University Blacksburg Virginia 24061 Ghillian T Prance New York Botanical Garden Bronx New York 10458

Evolutionary Biology Max K. Hecht, Ross J. MacIntyre, Michael T. Clegg, 2012-12-06 After volume 33 this book series was replaced by the journal *Evolutionary Biology* Please visit www.springer.com/11692 for further information The current volume includes articles on the conceptual relationship of ontogeny phylogeny and classification correlation studies of spatial patterns of genetic variation and the evolution of flower display and reward

Evolutionary Biology Max K. Hecht, Bruce Wallace, Gillean T. Prance, 1982-10-31 Fifteen volumes and one supplement have now appeared in the series known as *Evolutionary Biology* The editors continue to seek critical reviews original papers and commentaries on controversial topics It is our aim to publish papers primarily of greater length and depth than those normally published by society journals and quarterlies The editors make every attempt to solicit manuscripts on an international scale and to see that no facet of evolutionary biology classical or modern is slighted Manuscripts should be sent to anyone of the following Max K Hecht Department of Biology Queens College of the City University of New York Flushing New York 11367 Bruce Wallace Department of Biology Virginia Polytechnic Institute and State University Blacksburg Virginia 24061 Gillean T Prance New York Botanical Garden Bronx New York 10458 The

Editors vii Contents 1 Patterns of Neotropical Plant Species Diversity 1 Alwyn H Gentry Introduction I Sites and Methods 5
 Sample Sites 11 Identifications 16 Results 21 Structural Trends 29 Community Organization 32 Floristic Composition 32
 Dispersal Ecology 37 Pollination Strategies 42 Conclusion 44 Appendix Sites and Communities Studied 50 References 80 2
 Evolution on a Petri Dish The Evolved fJ Galactosidase System as a Model for Studying Acquisitive Evolution in the
 Laboratory 85 Barry G Hall Introduction 85 Approaches to Molecular Evolution 87 The Descriptive Approach 88 The
 Experimental Approach 90 Mechanisms for the Acquisition of New Genetic Material 97 The EBG System as a Model for
 Acquisitive Evolution 98 The Unevolved Enzyme Heterochrony in Evolution Michael L. McKinney, 2013-11-21 an adult
 poet is simply an individual in a state of arrested development in brief a sort of moron Just as all of us in utero pass through a
 stage in which we are tadpoles so all of us pass through a state in our nonage when we are poets A youth of seventeen who is
 not a poet is simply a donkey his development has been arrested even anterior to that of the tadpole But a man of fifty who
 still writes poetry is either an unfortunate who has never developed intellectually beyond his teens or a conscious buffoon
 who pretends to be something he isn't something far younger and juicier than he actually is H 1 Mencken High and Ghostly
 Matters Prejudices Fourth Series 1924 Where would evolution be Without this thing heterochrony M L McKinney 1987 One
 of the joys of working in a renascent field is that it is actually possible to keep up with the literature So it is with mixed
 emotions that we heterochronists even larval forms like myself view the recent veritable explosion of interest in heterochrony
 in Gould's words in this volume On the positive side it is obviously necessary and desirable to extend and expand the inquiry
 but one regrets that already we are beginning to talk past lose track of and even ignore each other as we carve out individual
 interests *Human Evolutionary Biology* Michael P. Muehlenbein, 2010-07-29 A wide ranging and inclusive text focusing on
 topics in human evolution and the understanding of modern human variation and adaptability *A Magic Web* , 2016-03-08
 The tropical forest of Panama's Barro Colorado Island is a luxuriant community of plants and animals pulsating with life and
 offering an astonishing view of nature's myriad processes What does the forest look like How do the activities of the forest's
 plants and animals create a community In *A Magic Web* photographer Christian Ziegler and evolutionary biologist Egbert
 Giles Leigh Jr invite readers to enter the marvelous world of Barro Colorado Island This book is a unique combination of
 spectacular photography and clear authoritative text written by an active scientist who has spent half a lifetime trying to
 understand the tropical forest Luscious photographs of the forest reveal the wonderful diversity of its inhabitants and show
 many of the activities that give it its character and lend structure to its community Drawing on decades of work on Barro
 Colorado Island Egbert Leigh explains how the forest works how plants and animals compete with but also depend on each
 other how the solitary lives of cats contrast with the intricately organized lives of armies of ants the variety of ways plants
 struggle for a place in the sun and how these plants attract animals to pollenate their flowers Finally the book shows the
 importance of tropical forests to the people living near them why they matter to the world at large what we can learn from

them and how they differ from temperate zone forests Full of stunning full color photographs accompanied by clear and accessible text A Magic Web is a must for anyone planning to visit a tropical forest and for all those who wish they could

Odontodes Donglei Chen,2023-12-08 The odontode system which encompasses teeth and other dentine based structures is ancient Odontodes are present in the oldest vertebrate fossils dating back 500 million years and still play an important role in the anatomy and function of living jawed vertebrates Fossils preserve odontode tissues with remarkable nanoscale fidelity allowing the evolution and diversification of the odontode system to be studied in deep time as well as across the diversity of living vertebrates This synthetic volume presents an overview of odontode research by internationally leading researchers from different fields of biology Key Features Summarizes classic and cutting edge research devoted to the development and evolution Focuses on the cellular aspects of odontogenesis Documents the structural and functional diversity of odontode tissues Describes the patterning mechanisms of dentitions in various vertebrate groups Provides a thorough index for students

Consciousness, Cognition and Crosstalk: The Evolutionary Exaptation of Nonergodic Groupoid Symmetry-Breaking Rodrick Wallace,2021-10-20 This book makes application to the dynamics of arousal and distraction and to other examples A modified version of the Kadanoff picture of phase transitions in consciousness emerges from the Morse Function itself in a surprisingly standard manner closely associated with the breaking of groupoid symmetries driven by fundamental equivalence class algebras Although this is far indeed from the familiar world of physical theory it should be possible on the basis of the probability models developed in the book to develop new statistical tools for the analysis of observational and empirical data regarding cognition and consciousness

Abstraction in Science and Art Chiara Ambrosio,Julia Sánchez-Dorado,2024-09-30 This volume explores the roles and uses of abstraction in scientific and artistic practice Conceived as an interdisciplinary dialogue between experts across histories and philosophies of art and science this collection of essays draws on the shared premise that abstraction is a rich and generative process not reducible to the mere omission of details in a representation When scientists attempt to make sense of complex natural phenomena they often produce highly abstract models of them In the history and philosophy of art there is a long tradition of debate on the function of abstraction and more recently its relation with theories of depiction Adopting a process oriented perspective the chapters in this volume explore the epistemic potential of a diversity of practices of abstracting The systematic analysis of a wide range of historical cases from early twentieth century abstractionist painting to contemporary abstract photography and from nineteenth century physics to recent research in biology and neurosciences invites the reader to reflect on the material lives of abstraction through concrete artefacts experimental practices and theoretical and aesthetic achievements Abstraction in Science and Art Philosophical Perspectives will be of interest to scholars and advanced students working in aesthetics philosophy of science and epistemology as well as to historians of science and art and to practicing artists and scientists interested in exploring foundational questions at the heart of the creative practice of abstracting The Open Access version of

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Parental Care: Evolution, Mechanisms, And Adaptive Significance, 1996-11-18 Advances in the Study of Behavior presents its first thematic volume focusing on the physiological and behavioral mechanisms underlying parental care The book discusses parental care both within and across taxa with coverage of invertebrates and early vertebrates fishes amphibia reptiles mammals birds and nonhuman primates A running theme throughout the chapters shows that parental care is anchored to the ecology reproductive physiology and embryonic development of a species Coverage also includes mechanisms of parental care including analysis of the stimuli that parents respond to and how parental care is initiated maintained and terminated Individual differences within species are also explored examining stable differences in maternal style how they arise and the consequences for both mother and infant *Fish That Fake Orgasms* Matt Walker, 2007-12-10 A collection of animal trivia focusing on the unusual or bizarre includes such examples as the sexual prowess of virgin male butterflies the role of eyeballs in enabling frogs to swallow and the fighting styles of deer as evidenced by their horn shape

Evolutionary Innovations Matthew H. Nitecki, Doris V. Nitecki, 1990-07-14 Evolutionary innovations the bony skeleton of vertebrates avian flight or the insect pollination system of angiosperms for example have in recent years become the focus of much fertile new research in evolutionary biology Innovations may hold the keys to understanding why whole new groups of organisms evolve or conversely why groups of organisms become extinct This volume brings together contributors from the fields of morphology genetics embryology physiology and paleontology to present research on evolutionary innovations and to suggest directions for further work The topics covered include the plurality of evolutionary innovations patterns and processes at different hierarchical levels evolutionary genetics of adaptations heterochrony and other mechanisms of radical evolutionary change in early development developmental mechanisms at the origin of morphological novelty the evolution of morphological variation patterns functional design and its punctuated products plausibility and testability in assessing the consequences of evolutionary innovations paradigms and pitfalls of studying physiological evolution polyphyletic constructional breakthroughs in fossil and extant species ecology of evolutionary innovations in the fossil record Mixing Races Paul Lawrence Farber, 2021-04-27 Traces both historically and sociologically the changing attitudes on race mixing miscegenation in western culture clear well written and useful Journal of the History of Biology This book explores changing American views of race mixing in the twentieth century showing how new scientific ideas transformed accepted notions of race and how those ideas played out on college campuses in the 1960s In the 1930s it was not unusual for medical experts to caution against miscegenation or race mixing espousing the common opinion that it would produce biologically dysfunctional offspring By the 1960s the scientific community roundly refuted this theory Paul Lawrence Farber traces this revolutionary shift in scientific thought explaining how developments in modern population biology genetics and anthropology proved that

opposition to race mixing was a social prejudice with no justification in scientific knowledge In the 1960s this new knowledge helped to change attitudes toward race and discrimination especially among college students Their embrace of social integration caused tension on campuses across the country Students rebelled against administrative interference in their private lives and university regulations against interracial dating became a flashpoint in the campus revolts that revolutionized American educational institutions Farber s provocative study is a personal one featuring interviews with mixed race couples and stories from the author s student years at the University of Pittsburgh As such *Mixing Races* offers a unique perspective on how contentious debates taking place on college campuses reflected radical shifts in race relations in the larger society A fascinating look at how evolutionary science has changed alongside social beliefs Midwest Book Review Will open the dialogue about social barriers and group identities Essential Choice **Herbert Spencer** John Offer,2000 This set traces Herbert Spencer s influence from his contemporaries to the present day Contributions come from across the social science disciplines and are often taken from sources which are difficult to access *Evolution of Dental Tissues and Paleobiology in Selachians* Gilles Cuny,Guillaume Guinot,Sebastien Enault,2018-02-06 Chondrichthyans possess unique anatomical features compared to other vertebrates in particular a fully cartilaginous skeleton and a permanently renewed dentition These characteristics make the fossilization of whole bodies difficult and consequently their fossil record consists mainly of a large number of isolated teeth The study of their dentition is therefore of primary interest for our understanding of the evolution of this group Beyond the dental morphology the structure of the tissues composing the dentition has proved an important source of information sometimes difficult to interpret on the eating habits and the paleobiology of these animals This book makes a thorough review of the existing theories in this field of research as well as introducing new elements from more recent studies Through close reference to the fossil record of ancient selachians it examines what the study of dental tissue in cartilaginous fish can tell us about the evolution and the past biology of these animals as well as what we can learn about the evolution of teeth themselves Focuses on the evolution of the teeth microstructure of the cartilaginous fishes Offers a complete overview of the terminology used to describe fish tooth microstructures Offers an overview of convergent enameloid microstructures between actinopterygians ray finned fishes and chondrichthyans to enable better understanding of the evolution of this kind of tissue Highlights the importance of isolated fossil teeth to understand the evolution of whole clades Discusses the use of isolated fossil teeth to understand the evolution of whole clades DNA Replication Herve Seligmann,2011-08-01 The study of DNA advanced human knowledge in a way comparable to the major theories in physics surpassed only by discoveries such as fire or the number zero However it also created conceptual shortcuts beliefs and misunderstandings that obscure the natural phenomena hindering its better understanding The deep conviction that no human knowledge is perfect but only perfectible should function as a fair safeguard against scientific dogmatism and enable open discussion With this aim this book will offer to its readers 30 chapters on current trends in the field of DNA replication

As several contributions in this book show the study of DNA will continue for a while to be a leading front of scientific activities

Life's Solution Simon Conway Morris, 2003-09-04 The assassin's bullet misses the Archduke's carriage moves forward and a catastrophic war is avoided So too with the history of life Re-run the tape of life as Stephen J Gould claimed and the outcome must be entirely different an alien world without humans and maybe not even intelligence The history of life is littered with accidents any twist or turn may lead to a completely different world Now this view is being challenged Simon Conway Morris explores the evidence demonstrating life's almost eerie ability to navigate to a single solution repeatedly Eyes brains tools even culture all are very much on the cards So if these are all evolutionary inevitabilities where are our counterparts across the galaxy The tape of life can only run on a suitable planet and it seems that such Earth-like planets may be much rarer than hoped Inevitable humans yes but in a lonely Universe

Fishes in Lagoons and Estuaries in the Mediterranean 1 Mohamed Hichem Kara, Jean-Pierre Quignard, 2019-02-06 Lagoons and estuaries are transition spaces between earth and sea Beyond their expanse geographic repartition geomorphological hydroclimatic and ecobiological diversity and biodiversity they play an important role in regional economies and are some of the ecosystems most vulnerable to global change Reinforced by numerous references this book studies Mediterranean lagoonal and estuarine fishes whose diversity largely depends on the composition of neighboring marine and continental ichthyofauna The authors describe their morphological biological ecological and behavioral characteristics by evoking their distinctive features and differences with their marine or freshwater homologues Their adaptation strategies elucidated thanks to recent advances in morphology genetics and molecular biology are recognized as a major advantage in the context of climate change This book is for natural environment managers engineers teachers students and researchers

This book delves into Evolutionary Biology Volume 15. Evolutionary Biology Volume 15 is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Evolutionary Biology Volume 15, encompassing both the fundamentals and more intricate discussions.

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- Chapter 2: Essential Elements of Evolutionary Biology Volume 15
- Chapter 3: Evolutionary Biology Volume 15 in Everyday Life
- Chapter 4: Evolutionary Biology Volume 15 in Specific Contexts
- Chapter 5: Conclusion

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The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Evolutionary Biology Volume 15.

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Table of Contents Evolutionary Biology Volume 15

1. Understanding the eBook Evolutionary Biology Volume 15
 - The Rise of Digital Reading Evolutionary Biology Volume 15
 - Advantages of eBooks Over Traditional Books
2. Identifying Evolutionary Biology Volume 15
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Evolutionary Biology Volume 15
 - User-Friendly Interface
4. Exploring eBook Recommendations from Evolutionary Biology Volume 15
 - Personalized Recommendations
 - Evolutionary Biology Volume 15 User Reviews and Ratings
 - Evolutionary Biology Volume 15 and Bestseller Lists
5. Accessing Evolutionary Biology Volume 15 Free and Paid eBooks
 - Evolutionary Biology Volume 15 Public Domain eBooks
 - Evolutionary Biology Volume 15 eBook Subscription Services
 - Evolutionary Biology Volume 15 Budget-Friendly Options
6. Navigating Evolutionary Biology Volume 15 eBook Formats
 - ePub, PDF, MOBI, and More
 - Evolutionary Biology Volume 15 Compatibility with Devices
 - Evolutionary Biology Volume 15 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Evolutionary Biology Volume 15
 - Highlighting and Note-Taking Evolutionary Biology Volume 15
 - Interactive Elements Evolutionary Biology Volume 15
8. Staying Engaged with Evolutionary Biology Volume 15

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Evolutionary Biology Volume 15
- 9. Balancing eBooks and Physical Books Evolutionary Biology Volume 15
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Evolutionary Biology Volume 15
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Evolutionary Biology Volume 15
 - Setting Reading Goals Evolutionary Biology Volume 15
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Evolutionary Biology Volume 15
 - Fact-Checking eBook Content of Evolutionary Biology Volume 15
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Evolutionary Biology Volume 15 Introduction

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