

Evolution An Introduction Stearns Hoekstra

Experimental Evolution Theodore Garland, Michael R. Rose. 2009-12-03 Experimental approaches to evolution provide indisputable evidence of evolution by directly observing the process at work. Experimental evolution deliberately duplicates evolutionary processes—forcing life histories to evolve, producing adaptations to stressful environmental conditions, and generating lineage splitting to create incipient species. This unique volume summarizes studies in experimental evolution, outlining current techniques and applications, and presenting the field's full range of research—from selection in the laboratory to the manipulation of populations in the wild. It provides work on such key biological problems as the evolution of Darwinian fitness, sexual reproduction, life history, athletic performance, and learning.

Diversity and Evolution of Butterfly Wing Patterns Toshio Sekimura, H. Frederik Nijhout. 2017-08-29 This book facilitates an integrative understanding of the development, genetics and evolution of butterfly wing patterns. To develop a deep and realistic understanding of the diversity and evolution of butterfly wing patterns, it is essential and necessary to approach the problem from various kinds of key research fields such as “evo-devo,” “eco-devo,” “developmental genetics,” “ecology and adaptation,” “food plants,” and “theoretical modeling.” The past decade-and-a-half has seen a veritable revolution in our understanding of the development, genetics and evolution of butterfly wing patterns. In addition, studies of how environmental and climatic factors affect the expression of color patterns has led to increasingly deeper understanding of the pervasiveness and underlying mechanisms of phenotypic plasticity. In recognition of the great progress in research on the biology, an international meeting titled “Integrative Approach to Understanding the Diversity of Butterfly Wing Patterns (IABP-2016)” was held at Chubu University, Japan in August 2016. This book consists of selected contributions from the meeting. Authors include main active researchers of new findings of corresponding genes as well as world leaders in both experimental and theoretical approaches to wing color patterns. The book provides excellent case studies for graduate and undergraduate classes in evolution, genetics/genomics, developmental biology, ecology, biochemistry, and also theoretical biology, opening the door to a new era in the integrative approach to the analysis of biological problems. This book is open access under a CC BY 4.0 license.

The Evolution of Sex John Maynard Smith. 1978-08-24 The question of why organisms reproduce sexually is still a matter of controversy. In this account, Professor Maynard Smith considers the selective forces responsible for the origin and evolution of sexual reproduction and genetic recombination, using quantitative population genetics arguments to support his ideas. The relative importance of individual and group selection processes are also considered. The aim is to give a clear statement of the theoretical issues, and present enough of the evidence to show what kinds of facts are relevant. It is hoped that where crucial evidence is missing, experimentalists and field workers may be encouraged to collect the relevant data. The author does not claim to solve all the problems he raises, but this clear and well-argued account should provide stimulating reading for advanced undergraduate students and research workers in evolutionary theory.

An Introduction to Ecological Genomics Nico M. van Straalen, Dick Roelofs. 2012 The authors also provide a comparative survey of the properties of genomes (genome size, gene families, synteny, and polymorphism) for prokaryotes as well as the main eukaryotic models.

Sperm Competition and Sexual Selection Tim R. Birkhead, Anders Pape Møller. 1998-08-12 Sperm Competition and Sexual Selection presents the intricate ways in which sperm compete to fertilize eggs and how this has prompted reinterpretations of breeding behavior. This book provides a theoretical framework for the study of sperm competition, which is a central part of sexual selection. It also discusses the roles of females and the

relationships between paternal care in sperm competition. The chapters focusing on taxonomic development are diverse and cover all the major animal groups, both vertebrate and invertebrate, and plants. The final chapter provides an overview discussing the relationship between sperm competition and sexual selection in terms of both function and mechanism and how these translate into species fitness. This book will be of prime interest to behaviorists, ecologists and evolutionary biologists, suggesting new avenues of research and new ways of approaching old problems. The only up-to-date summary of a central and popular subject Well known editors and authors Provides a theoretical framework for the study of sperm competition Covers all major animal groups Includes a chapter on plants

Evolution Brian Charlesworth.2003 This book is about the crucial role of evolutionary biology in transforming our view of human origins and relation to the universe, and the impact of this idea on traditional philosophy and religion. It explains the most important basic findings and procedures in the area.

Between Zeus and the Salmon Caleb E. Finch,Committee on Population.1997-10-29 Demographers and public health specialists have been surprised by the rapid increases in life expectancy, especially at the oldest ages, that have occurred since the early 1960s. Some scientists are calling into question the idea of a fixed upper limit for the human life span. There is new evidence about the genetic bases for both humans and other species. There are also new theories and models of the role of mutations accumulating over the life span and the possible evolutionary advantages of survival after the reproductive years. This volume deals with such diverse topics as the role of the elderly in other species and among human societies past and present, the contribution of evolutionary theory to our understanding of human longevity and intergenerational transfers, mathematical models for survival, and the potential for collecting genetic material in household surveys. It will be particularly valuable for promoting communication between the social and life sciences.

Evolution Stephen C. Stearns,Rolf F. Hoekstra.2000 A major new textbook. A concise and clear introduction to evolutionary biology. This book introduces what is essential and exciting in evolutionary biology. It covers whole field and emphasises the important concepts for the student. Care has been taken to express complex and stimulating ideas in simple language, while the frequent examples and running summaries make reading fun. Its logical structure means that it can be read straight through, one chapter per sitting. * Concise, clear, and states what is important * Concentrates on the central concepts and illustrates them with telling examples * Running summaries in the margins make navigation easy * Suitable for a one-year or one-semester course in evolution * Summaries at chapter ends * Each chapter's links to neighbouring chapters are explained Evolution: an introduction takes a fresh approach to classical topics such as population genetics and natural selection, and gives an overview of recent advances in hot areas such as sexual selection, genetic conflict, life history evolution, and phenotypic plasticity. Detail of contents The Prologue is unique and uniquely motivating. It makes four central points about evolution in the form of four case studies told as brief stories. Chapters 1-3 describe natural selection and the essential difference between adaptive and neutral evolution with unmatched clarity and simplicity. Chapter 4 emphasizes the essential message of population genetics without burdening the students with any of the unessential details and places unique emphasis on the role of the genetic system in constraining the response to selection. Chapter 6 is not found in any other evolution textbook, although there are a number of recent books on the subject, and it therefore provides an introductory overview of a topic that has been the object of much recent interest and promises to generate much more insight: the expression of genetic variation analysed with the concept of reaction norms. Chapters 7-9 cover sex, life histories, and sexual selection in greater depth than they are dealt with in any other introductory textbook but without introducing advanced technical language and analysis. Chapters 6-9 thus give unprecedented coverage to phenotypic evolution in an introductory text. Chapter 10 on multilevel selection and genetic conflict is unique in introductory textbooks. Rolf Hoekstra has achieved a wonder of clarity and concision on the

essentials of this exciting topic. Chapters 11 and 12 on speciation and systematics are, by comparison, pretty standard, but they continue the policy of clarity and concision with the focus on essentials. Chapter 13 on the history of the planet and of life is a completely new approach unabashedly designed to motivate students to think about deep time, geology, paleontology, and fossils. Chapter 14 on the major transitions in evolution is also not found in any other introductory textbook. It documents the conceptual issues raised in the history of life briefly and in a form that will stimulate the gifted. Chapter 15 profiles the chief insights made possible by molecular systematics in the form of four case studies ranging from deep time to recent European history. It has standard content but unique structure. A strong point is the way mitochondrial Eve is contrasted with transspecies polymorphism to show students how to think about inferences with molecular evidence. Chapter 16 briefly presents the principle comparative methods and the kinds of insights that can be achieved with them. It is not unique - Ridley covers this ground well - but the examples used are new and the essential features of the methods - including potential pitfalls - are quite clearly described. Chapter 17 places evolutionary thought into the context both of the natural sciences and of society at large.

Sense and Nonsense Kevin N. Laland, Gillian R. Brown. 2011-04-07 This book asks whether evolution can help us to understand human behaviour and explores diverse evolutionary methods and arguments. It provides a short, readable introduction to the science behind the works of Dawkins, Dennett, Wilson and Pinker. It is widely used in undergraduate courses around the world.

A Primer of Evolutionary Medicine Stephen Stearns. 2015-11-18 Evolutionary Medicine is a textbook intended for use in undergraduate, graduate, medical school, and continuing medical education (CME) courses. Its professional illustrations and summaries of chapters and sections make its messages readily accessible.

Genetics of Speciation David L. Jameson. 1977

Evolution Stephen C. Stearns, Rolf Hoekstra. 2000-01 A major new textbook. A concise and clear introduction to evolutionary biology. This book introduces what is essential and exciting in evolutionary biology. It covers whole field and emphasises the important concepts for the student. Care has been taken to express complex and stimulating ideas in simple language, while the frequent examples and running summaries make reading fun. Its logical structure means that it can be read straight through, one chapter per sitting. * Concise, clear, and states what is important * Concentrates on the central concepts and illustrates them with telling examples * Running summaries in the margins make navigation easy * Suitable for a one-year or one-semester course in evolution * Summaries at chapter ends * Each chapter's links to neighbouring chapters are explained Evolution: an introduction takes a fresh approach to classical topics such as population genetics and natural selection, and gives an overview of recent advances in hot areas such as sexual selection, genetic conflict, life history evolution, and phenotypic plasticity. Detail of contents The Prologue is unique and uniquely motivating. It makes four central points about evolution in the form of four case studies told as brief stories. Chapters 1-3 describe natural selection and the essential difference between adaptive and neutral evolution with unmatched clarity and simplicity. Chapter 4 emphasizes the essential message of population genetics without burdening the students with any of the unessential details and places unique emphasis on the role of the genetic system in constraining the response to selection. Chapter 6 is not found in any other evolution textbook, although there are a number of recent books on the subject, and it therefore provides an introductory overview of a topic that has been the object of much recent interest and promises to generate much more insight: the expression of genetic variation analysed with the concept of reaction norms. Chapters 7-9 cover sex, life histories, and sexual selection in greater depth than they are dealt with in any other introductory textbook but without introducing advanced technical language and analysis. Chapters 6-9 thus give unprecedented coverage to phenotypic evolution in an introductory text. Chapter 10 on multilevel selection and genetic conflict is unique in introductory textbooks. Rolf Hoekstra has achieved a wonder of clarity and concision on the

essentials of this exciting topic. Chapters 11 and 12 on speciation and systematics are, by comparison, pretty standard, but they continue the policy of clarity and concision with the focus on essentials. Chapter 13 on the history of the planet and of life is a completely new approach unabashedly designed to motivate students to think about deep time, geology, paleontology, and fossils. Chapter 14 on the major transitions in evolution is also not found in any other introductory textbook. It documents the conceptual issues raised in the history of life briefly and in a form that will stimulate the gifted. Chapter 15 profiles the chief insights made possible by molecular systematics in the form of four case studies ranging from deep time to recent European history. It has standard content but unique structure. A strong point is the way mitochondrial Eve is contrasted with transspecies polymorphism to show students how to think about inferences with molecular evidence. Chapter 16 briefly presents the principle comparative methods and the kinds of insights that can be achieved with them. It is not unique - Ridley covers this ground well - but the examples used are new and the essential features of the methods - including potential pitfalls - are quite clearly described. Chapter 17 places evolutionary thought into the context both of the natural sciences and of society at large.

The Evolution of Senescence in the Tree of Life Richard P. Shefferson, Owen R. Jones, Roberto Salguero-Gómez. 2017-02-23 The existing theories on the evolution of senescence assume that senescence is inevitable in all organisms. However, recent studies have shown that this is not necessarily true. A better understanding of senescence and its underlying mechanisms could have far-reaching consequences for conservation and eco-evolutionary research. This book is the first to offer interdisciplinary perspectives on the evolution of senescence in many species, setting the stage for further developments. It brings together new insights from a wide range of scientific fields and cutting-edge research done on a multitude of different animals (including humans), plants and microbes, giving the reader a complete overview of recent developments and of the controversies currently surrounding the topic. Written by specialists from a variety of disciplines, this book is a valuable source of information for students and researchers interested in ageing and life history traits and populations.

Evolution since Darwin Walter Eanes, Jeffrey Levinton. 2010-09-29 Evolution since Darwin: The First 150 Years comprises 22 chapters and eight shorter commentaries that emerged from a symposium held in November 2009 at Stony Brook University, USA. Thirty-nine authors from 22 universities and two museums in five countries write on areas of evolutionary biology and related topics on which their research focuses. Their essays cover the history of evolutionary biology, populations, genes and genomes, evolution of form, adaptation and speciation, diversification and phylogeny, paleobiology, human cultural and biological evolution, and applied evolution. The volume summarizes progress in major areas of research in evolutionary biology since Darwin, reviewing the current state of knowledge and active research in those areas, and looking toward the future of the broader field.

Strickberger's Evolution Brian K. Hall, Benedikt Hallgrímsson. 2011-06-07 Thoroughly updated and reorganized, Strickberger's Evolution, Fourth Edition, presents biology students with a basic introduction to prevailing knowledge and ideas about evolution, discussing how, why, and where the world and its organisms changed throughout history. Keeping consistent with Strickberger's engaging writing style, the authors carefully unfold a broad range of philosophical and historical topics that frame the theories of today including cosmological and geological evolution and its impact on life, the origins of life on earth, the development of molecular pathways from genetic systems to organismic morphology and function, the evolutionary history of organisms from microbes to animals, and the numerous molecular and populational concepts that explain the earth's dynamic evolution. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

Encyclopedia of Animal Cognition and Behavior Jennifer Vonk, Todd Shackelford. 2022-04-01 This encyclopedia, representing one of the most multi-disciplinary areas of research, is a comprehensive examination of the key areas in animal cognition and behavior. It will serve as a complementary

resource to the handbooks and journals that have emerged in the last decade on this topic, and will be a useful resource for student and researcher alike. With comprehensive coverage of this field, key concepts will be explored. These include social cognition, prey and predator detection, habitat selection, mating and parenting, development, genetics, physiology, memory, learning and perception. Attention is also given to animal-human co-evolution and interaction, and animal welfare. All entries are under the purview of acknowledged experts in the field.

Mechanisms of Life History Evolution Thomas Flatt, Andreas Heyland. 2011-05-12 Life history theory seeks to explain the evolution of the major features of life cycles by analyzing the ecological factors that shape age-specific schedules of growth, reproduction, and survival and by investigating the trade-offs that constrain the evolution of these traits. Although life history theory has made enormous progress in explaining the diversity of life history strategies among species, it traditionally ignores the underlying proximate mechanisms. This novel book argues that many fundamental problems in life history evolution, including the nature of trade-offs, can only be fully resolved if we begin to integrate information on developmental, physiological, and genetic mechanisms into the classical life history framework. Each chapter is written by an established or up-and-coming leader in their respective field; they not only represent the state of the art but also offer fresh perspectives for future research. The text is divided into 7 sections that cover basic concepts (Part 1), the mechanisms that affect different parts of the life cycle (growth, development, and maturation; reproduction; and aging and somatic maintenance) (Parts 2-4), life history plasticity (Part 5), life history integration and trade-offs (Part 6), and concludes with a synthesis chapter written by a prominent leader in the field and an editorial postscript (Part 7).

Microevolution Rate, Pattern, Process Andrew P. Hendry, Michael T. Kinnison. 2012-12-06 From guppies to Galapagos finches and from adaptive landscapes to haldanes, this compilation of contributed works provides reviews, perspectives, theoretical models, statistical developments, and empirical demonstrations exploring the tempo and mode of microevolution on contemporary to geological time scales. New developments, and reviews, of classic and novel empirical systems demonstrate the strength and diversity of evolutionary processes producing biodiversity within species. Perspectives and theoretical insights expand these empirical observations to explore patterns and mechanisms of microevolution, methods for its quantification, and implications for the evolution of biodiversity on other scales. This diverse assemblage of manuscripts is aimed at professionals, graduate students, and advanced undergraduates who desire a timely synthesis of current knowledge, an illustration of exciting new directions, and a springboard for future investigations in the study of microevolution in the wild.

The Major Transitions in Evolution John Maynard Smith, Eörs Szathmáry. 1997-10-30 During evolution there have been several major changes in the way genetic information is organized and transmitted from one generation to the next. These transitions include the origin of life itself, the first eukaryotic cells, reproduction by sexual means, the appearance of multicellular plants and animals, the emergence of cooperation and of animal societies. This is the first book to discuss all these major transitions and their implications for our understanding of evolution. Clearly written and illustrated with many original diagrams, this book will be welcomed by students and researchers in the fields of evolutionary biology, ecology, and genetics.

The Evolution of Life Histories Stephen C. Stearns. 1992-05-28 Offers a summary of life-history evolution, a field that holds a central position in modern ecology and evolutionary biology. Structured for teaching, with problem sets at the end of each chapter, it covers the evolution of the life cycle and the causes of phenotype variation in fitness.

Evolution Of Life Histories Derek Roff. 1993-04-30 There are many different types of organisms in the world: they differ in size, physiology, appearance, and life history. The challenge for evolutionary biology is to explain how such diversity arises. The Evolution of Life Histories does this by showing that natural selection is the principal underlying force molding life history variation. The book describes in particular the ways in which

variation can be analyzed and predicted. It covers both the genetic and optimization approaches to life history analysis and gives an overview of the general framework of life history theory and the mathematical tools by which predictions can be made and tested. Factors affecting the age schedule of birth and death and the costs of reproduction are discussed. The Evolution of Life Histories concentrates on those theoretical developments that have been tested experimentally. It will interest both students and professionals in evolution, evolutionary ecology, mathematical and theoretical biology, and zoology and entomology.

Avian Genomics in Ecology and Evolution Robert H. S. Kraus.2019-06-29 Birds catch the public imagination like no other group of animals; in addition, birders are perhaps the largest non-professional naturalist community. Genomics and associated bioinformatics have revolutionised daily life in just a few decades. At the same time, this development has facilitated the application of genomics technology to ecological and evolutionary studies, including biodiversity and conservation at all levels. This book reveals how the exciting toolbox of genomics offers new opportunities in all areas of avian biology. It presents contributions from prominent experts at the intersection of avian biology and genomics, and offers an ideal introduction to the world of genomics for students, biologists and bird enthusiasts alike. The book begins with a historical perspective on how genomic technology was adopted by bird ecology and evolution research groups. This led, as the book explains, to a revised understanding of avian evolution, with exciting consequences for biodiversity research as a whole. Lastly, these impacts are illustrated using seminal examples and the latest discoveries from avian biology laboratories around the world.

Phenotypic Plasticity & Evolution David W. Pfennig.2021-05-31 Phenotypic plasticity - the ability of an individual organism to alter its features in direct response to a change in its environment - is ubiquitous. Understanding how and why this phenomenon exists is crucial because it unites all levels of biological inquiry. This book brings together researchers who approach plasticity from diverse perspectives to explore new ideas and recent findings about the causes and consequences of plasticity. Contributors also discuss such controversial topics as how plasticity shapes ecological and evolutionary processes; whether specific plastic responses can be passed to offspring; and whether plasticity has left an important imprint on the history of life. Importantly, each chapter highlights key questions for future research. Drawing on numerous studies of plasticity in natural populations of plants and animals, this book aims to foster greater appreciation for this important, but frequently misunderstood phenomenon. Key Features Written in an accessible style with numerous illustrations, including many in color Reviews the history of the study of plasticity, including Darwin's views Most chapters conclude with recommendations for future research

Levels of Selection in Evolution Laurent Keller.1999-10-24 Evolutionary biologists have recognised that natural selection operates for the good of lower-level units (the individual, the cell, even the gene) rather than the good of the group. In this volume, 12 scientists discuss why this should be the case.

The Social Evolution of Human Nature Harry Smit.2014-04-03 Harry Smit examines the elements of current evolutionary theory and how they bear on the evolution of the human mind.

Eco-evolutionary Dynamics Andrew P. Hendry.2020-06-09 In recent years, scientists have realized that evolution can occur on timescales much shorter than the 'long lapse of ages' emphasized by Darwin - in fact, evolutionary change is occurring all around us all the time. This work provides an authoritative and accessible introduction to eco-evolutionary dynamics, a cutting-edge new field that seeks to unify evolution and ecology into a common conceptual framework focusing on rapid and dynamic environmental and evolutionary change.

Crossing the threshold Andreas C. Göransson.2021-02-18 The theory of evolution is considered the unifying theory of biology. An accurate understanding of evolution is vital both for the understanding of diverse topics in biology, but also for societal issues such as antibiotic resistance or

biodiversity. In contrast, decades of research in science education have revealed that students have difficulties to accurately understand evolutionary processes such as mutation and natural selection. The majority of this research relies on a conceptual framework of so-called key concepts (variation, selection, inheritance), derived from scholarly descriptions of natural selection. Recent research suggests that non-domain specific concepts such as randomness, probability, spatial and temporal scales, so called threshold concepts, are important for evolution understanding in addition to the key concepts. Thus, many important elements of evolutionary theory are counter-intuitive or lie outside direct perception. Hence, representations such as visualizations, models and simulations are considered to be important for teaching and learning evolution. While the importance of visualizations is generally acknowledged for science education, less is known about how visual design can facilitate students understanding of threshold concepts, such as random mutations or spatial scales. This thesis uses the Model of Educational Reconstruction (MER) as the guiding framework for exploring the significance of threshold concepts by analysing the conceptual content of students' explanations and extant visualizations of natural selection. MER combines scientific content with teaching and learning perspectives for the analysis and design of learning environments. Content analysis of visualizations available online showed that most fail to fully represent the basic principles of natural selection (variation, selection and inheritance). Moreover, the representational potential of visualizations was seldom used to represent threshold concepts such as randomness in origin of variation. Visualizations were also biased to animals as the context of evolution. Similarly, upper-secondary and tertiary students' explanations of natural selection were seldom complete in terms of the basic principles and threshold concepts such as randomness were often lacking. Especially significant was the almost complete lack of randomness in upper-secondary students' explanations. In addition, threshold concepts were context-sensitive across the items used (bacteria, cheetah and salamander), for example spatial scale and randomness was significantly more common in responses to the bacteria item compared to the cheetah and salamander items. Considering the results from these studies, three interactive visualizations were developed (evolution of antibiotic resistance and fur colouration in mice). The visualization design was conducted iteratively following a Design-Based Research approach and evaluated in classroom settings in secondary and upper-secondary Swedish schools. The results showed that visualizations targeting randomness and genetic level events such as mutations can guide students towards a more scientific conception of natural selection. However, there were differences across the visualizations and student samples. In addition, while students often inferred randomness from the visuals, the results showed that integration of randomness into explanations of natural selection may be challenging. Hence, future research should explore the role of guidance and reflection for students understanding of randomness. The thesis also discusses the role of students' intuitive conceptions in relation to the use of interactive visualizations and how these preconceptions interact with the presented message. By using the theory of frame semantics, framing effects and conceptual integration, students' issues of achieving an accurate understanding of evolution are discussed in relation to the theory of conceptual change. Implications for teaching and learning natural selection as well as visualization design for learning are also discussed. Evolutionsteorin förs ofta fram som biologins förenande teori. Vikten av en korrekt och användbar evolutionsförståelse har därför ofta betonats, inte minst för elevers förståelse inom biologins olika delområden men också för att fatta beslut i samhällsfrågor som exempelvis antibiotikaresistens. Många av de centrala delarna av evolutionsteorin är kontraintuitiva eller abstrakta och decennier av forskning har visat att elever har svårigheter att förstå evolutionära processer som mutation och naturligt urval. Representationer såsom visualiseringar, modeller och simuleringar är därför viktiga för att ge elever direkta erfarenheter av evolutionära processer. Även om vikten av visualiseringar är allmänt accepterad inom naturvetenskapsundervisning så är det mindre känt hur visualiseringars utformning specifikt bidrar till att utveckla elevers förståelse av vetenskapliga fenomen såsom evolution. Dessutom har forskningen på elevers evolutionsförståelse till stor del fokuserat på så kallade nyckelbegrepp (variation, selektion och arv) som härletts från vetenskapliga beskrivningar av evolutionsteorin. Dessa begrepp antas vara nödvändiga

men också tillräckliga för elevers evolutionsförståelse. Dock har vikten av icke domänspecifika begrepp kopplade till evolutionsteorin, såsom slump, sannolikhet, spatial och temporal skalor (så kallade tröskelbegrepp), inte undersökts i någon högre grad. Den här avhandlingen använder Model of Educational Reconstruction för att utforska betydelsen av tröskelbegrepp för evolutionsförståelse. Med utgångspunkt i den vetenskapliga beskrivningen och historiken undersöks förekomsten av tröskelbegrepp i befintliga visualiseringar för lärande samt elevers förklaringar för att formulera designprinciper för interaktiva visualiseringar av evolution. Dessutom beskrivs utvecklingen av ett antal interaktiva visualiseringar samt undersökningar av deras potentiella användning i klassrumsmiljöer. Avhandlingen diskuterar även betydelsen av elevers intuitiva föreställningar i relation till användandet av interaktiva visualiseringar och hur dessa föreställningar interagerar med det presenterade budskapet. Genom användning av ramsemantisk teori inklusive "framingeffekter" och "blendteori" diskuteras elevers svårigheter och utveckling av en vetenskaplig evolutionsförståelse i relation till tidigare teorier om begreppsförändring. Konsekvenser av "ramsemantisk teori" och "framingeffekter" i visuella medier diskuteras även i relation till visuell design för lärande.

Evolutionary Ecology of Plant-Herbivore Interaction Juan Núñez-Farfán, Pedro Luis Valverde. 2020-07-30 Plant-herbivore interactions are a central topic in evolutionary ecology. Historically, their study has been a cornerstone for coevolutionary theory. Starting from classic ecological studies at the phenotypic level, it has since expanded to molecular and genomic approaches. After a historical perspective, the book's subsequent chapters cover a wide range of topics: from populations to ecosystems; plant- and herbivore-focused studies; in natural and in man-modified ecosystems; and both micro- and macro-evolutionary levels. All chapters include valuable background information and empirical evidence. Given its scope, the book will be of interest to both students and researchers, and will hopefully stimulate further research in this exciting field of evolutionary biology.

Introductory Ecology Peter Cotgreave, Irwin Forseth. 2009-04-01 In this age of increasing human domination of the Earth's biological and physical resources, a basic understanding of ecology is more important than ever. Students need a textbook that introduces them to the basic principles of ecological science, one that is relevant to today's world, and one that does not overwhelm them with detail and jargon. Peter Cotgreave and Irwin Forseth have designed this book to meet the needs of these students, by providing a basic synthesis of how individual organisms interact with their physical environment, and with each other, to generate the complex ecosystems we see around us. The unifying theme of the book is biodiversity—its patterns, causes, and the growing worldwide threats to it. Basic ecological principles are illustrated using clearly described examples from the current ecological literature. This approach makes the book valuable to all students studying ecology. Examples have been chosen carefully to represent as wide a range of ecosystems (terrestrial and aquatic, northern and southern hemisphere) and life forms (animal, plant and microbe) as possible. Particular attention is paid to consequences of global change on organisms, populations, ecological communities and ecosystems. The end result is a text that presents a readable and persuasive picture of how the Earth's natural systems function, and how that functioning may change over the coming century. Features include: · strong coverage of applied and evolutionary ecology · applications of ecology to the real world · a question-orientated approach · the only comprehensive treatment of ecology written for the introductory student · an emphasis on definitions of key words and phrases · an integration of experimental, observational and theoretical material · examples drawn from all over the world and a wide variety of organisms · a logical structure, building from the response of individual organisms to physical factors, through population growth and population interactions, to community structure and ecosystem function · suggested further reading lists for each chapter · boxes to explain key concepts in more depth · dedicated text site featuring additional information and teaching aids www.blackwellpublishing.com/cotgreave Peter Cotgreave is an animal ecologist who has worked for the University of Oxford and the Zoological Society of London. His research interests centre on

abundance and rarity within animal communities. Irwin Forseth is a plant physiological ecologist who has taught introductory ecology and plant ecology at the University of Maryland since 1982. His research focuses on plant responses to the environment. The authors have studied organisms as diverse as green plants, insects and mammals in habitats from deserts to tropical rainforests. They have worked in ecological research and education in Africa, Asia, North and South America, Europe and the Caribbean.

Introduction to Biological Evolution Kenneth Kardong.2007

Evolution Stephen Stearns,Rolf Hoekstra.2005-08-11 Since Charles Darwin's masterpiece 'The Origin of Species by Natural Selection' was published in 1859, evolution has become an established science that illuminates and informs our understanding of many central biological issues, from animal development to animal behaviour. *Evolution: An Introduction* stands alone amongst the major textbooks by focusing on key principles to offer a truly accessible, unintimidating treatment of this fascinating subject. Its full colour presentation, extensively revised content and enhanced pedagogical features make *Evolution: An Introduction* the perfect text for any student wishing to gain a sound understanding of the subject.

Origins of Biodiversity Lindell Bromham,Marcel Cardillo.2019-04-18 This book is a unique introduction to the fields of macroevolution and macroecology, taking an enquiry-led approach to exploring the evolution and distribution of biodiversity across time, space and lineages.The only introduction to macroevolution and macroecology to adopt an innovative enquiry-led, case study-based framework to encourage active learning and critical thinking, this book:Extends the study of evolutionary biology and ecology beyond the topics covered in typical undergraduate textsExplores the nature of scientific investigation by emphasising hypothesis testing and highlighting the range of analytical tools available to contemporary researchersEncourages active student-driven learning by using open questions and current debates to promote critical thinking, identify interesting and important problems, and demonstrate how to frame testable research hypothesesCombines these three skills--an understanding of macroevolutionary and macroecological principles and patterns, a grasp of hypothesis testing, and the ability to identify important questions--to allow students to look at the world with new eyes, and develop an understanding of why the biological world is as it is.

Life History Evolution Derek A. Roff.2002 *Life History Evolution* represents a synthetic approach to the understanding of the evolution of life history variation using the three types of environment (constant, stochastic, predictable) as the focus under which the theory is developed and tested. First, the author outlines a general framework for the study and analysis of life history variation, bringing together the approaches of quantitative genetic modeling and optimality analysis. Using this framework, he then discusses how life histories evolve in the three different types of environments, each of which presents unique characteristics. The theme of the book is that an understanding of evolutionary change requires analysis at both the genetic and phenotypic levels, and that the environment plays a central role in such analyses. Intended for graduate students and researchers, the book's emphasis is on assumptions and testing of models. Mathematical processes are described, but mathematical derivations are kept to a minimum. Each chapter includes a summary, and boxes provide supplementary material.

The Oxford Handbook of Evolutionary Medicine Martin Brüne,Wulf Schiefenhövel.2019-01-31 Medicine is grounded in the natural sciences, among which biology stands out with regard to the understanding of human physiology and conditions that cause dysfunction. Ironically though, evolutionary biology is a relatively disregarded field. One reason for this omission is that evolution is deemed a slow process. Indeed, macroanatomical features of our species have changed very little in the last 300,000 years. A more detailed look, however, reveals that novel ecological contingencies, partly in relation to cultural evolution, have brought about subtle changes pertaining to metabolism and immunology, including adaptations to dietary innovations, as well as adaptations to the exposure to novel pathogens. Rapid pathogen evolution and evolution of cancer cells cause major problems for the immune system to find adequate responses. In addition, many adaptations to past ecologies have turned

into risk factors for somatic disease and psychological disorder in our modern worlds (i.e. mismatch), among which epidemics of autoimmune diseases, cardiovascular diseases, diabetes and obesity, as well as several forms of cancer stand out. In addition, depression, anxiety and other psychiatric conditions add to the list. The Oxford Handbook of Evolutionary Medicine is a compilation of cutting edge insights into the evolutionary history of ourselves as a species, and how and why our evolved design may convey vulnerability to disease. Written in a classic textbook style emphasising physiology and pathophysiology of all major organ systems, the Oxford Handbook of Evolutionary Medicine will be valuable for students as well as scholars in the fields of medicine, biology, anthropology and psychology.

Encyclopedia of Evolution Stanley A. Rice.2009 Evolutionary science is not only one of the greatest breakthroughs of modern science, but also one of the most controversial. Perhaps more than any other scientific area, evolutionary science has caused us all to question what we are, where we came from, and how we relate to the rest of the universe. Encyclopedia of Evolution contains more than 200 entries that span modern evolutionary science and the history of its development. This comprehensive volume clarifies many common misconceptions about evolution. For example, many people have grown up being told that the fossil record does not demonstrate an evolutionary pattern, and that there are many missing links. In fact, most of these missing links have been found, and their modern representatives are often still alive today. The biographical entries represent evolutionary scientists within the United States who have had and continue to have a major impact on the broad outline of evolutionary science. The biographies chosen reflect the viewpoints of scientists working within the United States. Five essays that explore interesting questions resulting from studies in evolutionary science are included as well. The appendix consists of a summary of Charles Darwin's Origin of Species, which is widely considered to be the foundational work of evolutionary science and one of the most important books in human history. The five essays include: How much do genes control human behavior?What are the ghosts of evolution?Can an evolutionary scientist be religious?Why do humans die?Are humans alone in the universe

Evolution in Health and Disease Stephen C. Stearns, Jacob C. Koella.2008 This work explores and analyses the ways in which our ancient genes contend with, and influence, modern human life. It offers coverage of the points of contact between evolutionary biology and medical science.

Watching, from the Edge of Extinction Beverly Peterson Stearns, Stephen C. Stearns.2000-01-01 Annotation In this mesmerizing series of interviews with dedicated people who work to save endangered species throughout the world, an alarming truth emerges: the obstacles of human politics, greed, corruption, folly, and hypocrisy can present as much danger to a species' survival as biological causes. The dramatic lessons of this book shed new light on the problems of declining species and offer hope that we may yet change their fate.

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock.2017-03-21 The essential one-volume reference to evolution The Princeton Guide to Evolution is a comprehensive, concise, and authoritative reference to the major subjects and key concepts in evolutionary biology, from genes to mass extinctions. Edited by a distinguished team of evolutionary biologists, with contributions from leading researchers, the guide contains some 100 clear, accurate, and up-to-date articles on the most important topics in seven major areas: phylogenetics and the history of life; selection and adaptation; evolutionary processes; genes, genomes, and phenotypes; speciation and macroevolution; evolution of behavior, society, and humans; and evolution and modern society. Complete with more than 100 illustrations (including eight pages in color), glossaries of key terms, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, scientists in related fields, and anyone else with a serious interest in evolution. Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations, including eight pages in color Each article includes an outline, glossary, bibliography, and cross-references Covers

phylogenetics and the history of life; selection and adaptation; evolutionary processes; genes, genomes, and phenotypes; speciation and macroevolution; evolution of behavior, society, and humans; and evolution and modern society

The Evolution of Anisogamy Tatsuya Togashi, Paul Alan Cox. 2011-04-14 Darwin identified the existence of separate male and female gametes as one of the central mysteries of evolutionary biology. 150 years later, the question of why male gametes exist remains an intriguing puzzle. In this, the first book solely devoted to the evolution of anisogamy, top theorists in the field explore why gamete dimorphism characterizes nearly all plants and animals. Did separate male and female gametes evolve as a result of competition, or does anisogamy instead represent selection for cooperation? If disruptive selection drove the evolution of anisogamy, with male gametes focused on search and fusion, and female gametes provisioning the new zygote, why do some algal species continue to produce gametes of a single size? Does sperm limitation, or escape from infection, better explain the need for extremely small, highly mobile sperm? Written by leaders in the field, this volume offers an authoritative and cutting-edge overview of evolutionary theory.

Origination of Organismal Form Gerd B. Muller, Stuart A. Newman. 2003-01-03 A more comprehensive version of evolutionary theory that focuses as much on the origin of biological form as on its diversification. The field of evolutionary biology arose from the desire to understand the origin and diversity of biological forms. In recent years, however, evolutionary genetics, with its focus on the modification and inheritance of presumed genetic programs, has all but overwhelmed other aspects of evolutionary biology. This has led to the neglect of the study of the generative origins of biological form. Drawing on work from developmental biology, paleontology, developmental and population genetics, cancer research, physics, and theoretical biology, this book explores the multiple factors responsible for the origination of biological form. It examines the essential problems of morphological evolution—why, for example, the basic body plans of nearly all metazoans arose within a relatively short time span, why similar morphological design motifs appear in phylogenetically independent lineages, and how new structural elements are added to the body plan of a given phylogenetic lineage. It also examines discordances between genetic and phenotypic change, the physical determinants of morphogenesis, and the role of epigenetic processes in evolution. The book discusses these and other topics within the framework of evolutionary developmental biology, a new research agenda that concerns the interaction of development and evolution in the generation of biological form. By placing epigenetic processes, rather than gene sequence and gene expression changes, at the center of morphological origination, this book points the way to a more comprehensive theory of evolution.

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