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P. K. Endress 1994. Diversity and evolutionary biology of tropical flowers. Cambridge University Press. ISBN 0521 420881, 420 pages, hb. £ 55.00. - Volume 11 Issue 4 - A. Weber

P. K. Endress 1994. Diversity and evolutionary biology of ...

Diversity and Evolutionary Biology of Tropical Flowers. Peter K. Endress. Cambridge University Press, Jul 25, 1996 - Science - 511 pages. 1 Review. The first part of the volume deals with general...

Diversity and Evolutionary Biology of Tropical Flowers ...

The study of flowers provides a unique insight into the biology and evolution of flowering plants as a whole. The comparative study of flowers began in temperate regions and as a consequence most books on flowers are concerned with temperate plants.

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Genetic diversity is important because it helps maintain the health of a population, by including alleles that may be valuable in resisting diseases, pests and other stresses. Maintaining diversity gives the population a buffer against change, providing the flexibility to adapt.

Genetic diversity & Evolution

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The study of flowers provides a unique insight into the biology and evolution of flowering plants as a whole, but most work has tended to concentrate on flowers of temperate regions. This volume, in contrast, concentrates on tropical flowers, and covers floral organisation, construction, adaptations to pollinators, structure, and evolution.

Diversity and Evolutionary Biology of Tropical Flowers ...

The Department of Ecology and Evolutionary Biology (EBIO) is strongly committed to creating a program that feels inclusive and supportive for people from all backgrounds and identities. Our students, faculty, and staff want to help every member of EBIO find a support network that feels right for her/him/them. Our weekly departmental Diversity and Inclusion seminar, attended by graduate and undergraduate students, postdocs, faculty, and staff, is offered each semester.

Diversity and Inclusion in EBIO | Ecology and Evolutionary ...

Activities advancing Diversity, Equity, and Inclusion. There are a number of programs run in the department that could be featured. I think this would be useful in showing how active our department is in advancing diversity.

Department of Ecology and Evolutionary Biology | Diversity

Evolutionary biology is the subfield of biology that studies the evolutionary processes (natural selection, common descent, speciation) that produced the diversity of life on Earth. In the 1930s, the discipline of evolutionary biology emerged through what Julian Huxley called the modern synthesis of understanding, from previously unrelated fields of biological research, such as genetics and ...

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Evolutionary biology - Wikipedia

Abstract. It has always been obvious that organisms vary, even to those pre-Darwinian idealists who saw most individual variation as distorted shadows of an ideal. It has been equally apparent, even to those post-Darwinians for whom variation between individuals is the central fact of evolutionary dynamics, that variation is nodal, that individuals fall in clusters in the space of phenotypic description, and that those clusters, which we call demes, or races, or species, are the outcome of ...

The Apportionment of Human Diversity | SpringerLink

The Journal of Evolutionary Biology is a bimonthly, peer-reviewed, international journal. We prioritise papers that address the evolutionary process, from a broad perspective. We cover both micro- and macro-evolution of all types of organisms. The aim of the Journal is to integrate perspectives across molecular and microbial evolution ...

Journal of Evolutionary Biology - Wiley Online Library

Caltech has a long history of evolutionary and organismal biology, including Thomas Hunt Morgan's foundational contributions to population genetics and evolutionary theory, Seymour Benzer's groundbreaking work on the molecular biology of circadian rhythms and behavior in fruit flies, and pioneering neuroethological studies of birds by Mark Konishi.

Evolutionary and Organismal Biology | Division of Biology ...

Abstract. A diversity of organisms are endowed with the ability to emit light, and to display and control it in a

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variety of ways. Most of the luciferins (substrates) of the various phylogenetically distant systems fall into unrelated chemical classes, and based on still limited data, the luciferases (enzymes) and reaction mechanisms are distinctly different.

Biological diversity, chemical mechanisms, and the ...

Evolution - Evolution - Diversity and extinction: The current diversity of life is the balance between the species that have arisen through time and those that have become extinct. Paleontologists observe that organisms have continuously changed since the Cambrian Period, more than 500 million years ago, from which abundant animal fossil remains are known.

Evolution - Diversity and extinction | Britannica

The diversity of expertise of lecturers involved with the programme means that good supervision can be found for a broad range of studies in genomics, ecology and evolutionary biology. Assessment 50% Modules

Ecology and Evolutionary Biology MSc - Queen Mary ...

Research in this theme seeks to understand organismal evolution and biodiversity using a range of approaches and study systems, from animals and plants, to microbes and molecules. We have particular strengths in evolutionary genomics, population genetics, phylogenomics, palaeobiology, evolutionary theory and theoretical modelling. Within Life Sciences we work synergistically with Earth Scientists (palaeobiology), Social Medics (population genetics), Mathematicians (biostatistics), Computer ...

Evolutionary Biology | School of Biological Sciences ...

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Diversity and Evolutionary Biology of Tropical Flowers by Peter K. Endress and a great selection of related books, art and collectibles available now at AbeBooks.com.

Diversity and Evolutionary Biology of Tropical Flowers by ...
A year and half later, our new paper in Nature Ecology & Evolution is the first to quantify faculty engagement in activities related to diversity and inclusion in ecology and evolutionary biology....

A unique account of the structure, biology and evolution of tropical flowering plants.

'Species' are central to understanding the origin and dynamics of biological diversity; explaining why lineages split into multiple distinct species is one of the main goals of evolutionary biology. However the existence of species is often taken for granted, and precisely what is meant by species and whether they really exist as a pattern of nature has rarely been modelled or critically tested. This novel book presents a synthetic overview of the evolutionary biology of species, describing what species are, how they form, the consequences of species boundaries and diversity for evolution, and patterns of species accumulation over time. The central thesis is that species represent more than just a unit of taxonomy; they are a model of how diversity is

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structured as well as how groups of related organisms evolve. The author adopts an intentionally broad approach, stepping back from the details to consider what species constitute, both theoretically and empirically, and how we detect them, drawing on a wealth of examples from microbes to multicellular organisms.

Using this textbook, students will learn about cladistics, molecular phylogenies and the molecular-genetical basis of evolutionary change, including the important role of protein networks, symbionts and holobionts, together with the core principles of developmental biology.

The diversity of living forms and the unity of evolutionary processes are themes that have permeated the research and writing of Ernst Mayr, a Grand Master of evolutionary biology. The essays collected here are among his most valuable and durable: contributions that form the basis for much of the contemporary understanding of evolutionary biology.

The second edition of *The Diversity of Fishes* represents a major revision of the world's most widely adopted ichthyology textbook. Expanded and updated, the second edition is illustrated throughout with striking color photographs depicting the spectacular evolutionary adaptations of the most ecologically and taxonomically diverse vertebrate group. The text incorporates the latest advances in the biology of fishes, covering taxonomy, anatomy, physiology, biogeography, ecology, and behavior. A new chapter on genetics and molecular ecology of fishes has been added, and conservation is emphasized throughout. Hundreds of new and redrawn illustrations augment readable text, and every chapter has been revised to reflect the discoveries and greater understanding achieved during the past decade. Written by a team of internationally-

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recognized authorities, the first edition of *The Diversity of Fishes* was received with enthusiasm and praise, and incorporated into ichthyology and fish biology classes around the globe, at both undergraduate and postgraduate levels. The second edition is a substantial update of an already classic reference and text. Companion resources site This book is accompanied by a resources site: www.wiley.com/go/helfman The site is being constantly updated by the author team and provides:

- Related videos selected by the authors
- Updates to the book since publication
- Instructor resources
- A chance to send in feedback

Biology has entered an era in which interdisciplinary cooperation is at an all-time high, practical applications follow basic discoveries more quickly than ever before, and new technologies--recombinant DNA, scanning tunneling microscopes, and more--are revolutionizing the way science is conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. Opportunities in Biology reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities. Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needs--for funding, effective information systems, and other support--of future biology research. Exploring what has been accomplished and what is on the horizon, *Opportunities in Biology* is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies.

In this innovative celebration of diversity and affirmation of individuality in animals and humans, Joan Roughgarden challenges accepted wisdom about gender identity and sexual orientation. A distinguished evolutionary biologist, Roughgarden takes on the medical establishment, the Bible, social science—and even

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Darwin himself. She leads the reader through a fascinating discussion of diversity in gender and sexuality among fish, reptiles, amphibians, birds, and mammals, including primates. *Evolution's Rainbow* explains how this diversity develops from the action of genes and hormones and how people come to differ from each other in all aspects of body and behavior. Roughgarden reconstructs primary science in light of feminist, gay, and transgender criticism and redefines our understanding of sex, gender, and sexuality. Witty, playful, and daring, this book will revolutionize our understanding of sexuality. Roughgarden argues that principal elements of Darwinian sexual selection theory are false and suggests a new theory that emphasizes social inclusion and control of access to resources and mating opportunity. She disputes a range of scientific and medical concepts, including Wilson's genetic determinism of behavior, evolutionary psychology, the existence of a gay gene, the role of parenting in determining gender identity, and Dawkins's "selfish gene" as the driver of natural selection. She dares social science to respect the agency and rationality of diverse people; shows that many cultures across the world and throughout history accommodate people we label today as lesbian, gay, and transgendered; and calls on the Christian religion to acknowledge the Bible's many passages endorsing diversity in gender and sexuality. *Evolution's Rainbow* concludes with bold recommendations for improving education in biology, psychology, and medicine; for democratizing genetic engineering and medical practice; and for building a public monument to affirm diversity as one of our nation's defining principles.

The astounding breadth of diversity of life on earth intrigues and amazes many people, while the future of world biodiversity is a cause for widespread concern. Within the current context of global interest in biological diversity, this is a timely review of the most recent research into the evolutionary origins of biological diversity and the processes of speciation, from a stellar cast of contributors. Recent studies have

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discovered considerable genetic and morphological variation both between and within populations of the same species. Yet the relation between this intraspecific variation and the processes of speciation remains poorly understood. When, how, and why do new species arise? The chapters in this book explore the question of how variation arises within species; some emphasize the ecological and behavioural basis of differentiation; others argue for the role of natural selection in generating speciation. Several chapters focus on the important emerging links between sexual selection, sexual conflict, and population differentiation. The final chapters of the book take a broader perspective on the question, and explore the fossil record for data on the origination of species diversity - and extinctions - in the past. This book is a must-have for all researchers and graduate students in the biological sciences who want to be abreast of the latest thinking on the evolution of biological diversity.

All living things on earth—from individual species to entire ecosystems—have evolved through time, and evolution is the acknowledged framework of modern biology. Yet many areas of biology have moved from a focus on evolution to much narrower perspectives. Daniel R. Brooks and Deborah A. McLennan argue that it is impossible to comprehend the nature of life on earth unless evolution—the history of organisms—is restored to a central position in research. They demonstrate how the phylogenetic approach can be integrated with ecological and behavioral studies to produce a richer and more complete picture of evolution. Clearly setting out the conceptual, methodological, and empirical foundations of their research program, Brooks and McLennan show how scientists can use it to unravel the evolutionary history of virtually any characteristic of any living thing, from behaviors to ecosystems. They illustrate and test their approach with examples drawn from a wide variety of species and habitats. *The Nature of Diversity* provides a powerful new tool for understanding, documenting, and preserving the world's biodiversity. It is an

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essential book for biologists working in evolution, ecology, behavior, conservation, and systematics. The argument in *The Nature of Diversity* greatly expands upon and refines the arguments made in the authors' previous book *Phylogeny, Ecology, and Behavior*.

Richard Lewontin explores the complexity of human variation and tackles the controversial question: Are our personalities and capabilities predetermined by our genes? Answering with a resounding "no", *Human Diversity* makes the case that biological differences are only a small part of what makes individuals unique - anyone, regardless of race, class, or sex, has the potential to develop virtually any identity within the spectrum of humanity.

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