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Ecological Morphology Integrative Organismal Biology ecological morphology integrative organismal biology INTEGRATIVE BIOLOGY IBIO - Michigan State University Biological diversity and organismal biology Princi-ples of evolution, transmission genetics, population biology, community structure, ecology 172 Organismal and

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Integrative Organismal and Behavioral Biology research focuses on the interplay between organism-level traits and evolutionary and ecological processes. Using a broad array of techniques and concepts from bioenergetics, neurobiology, disease ecology, and endocrinology, researchers explore how physiology and behavior shape how individuals interact with biotic and abiotic elements of their environment, and the mechanistic underpinnings driving these interactions.

Ecology, Evolution, and Organismal Biology

Introduction. Hummingbirds are increasingly exciting subjects with which to study interactions among morphology, behavior, and ecology. Compared to other vertebrates, they present researchers with examples of extreme morphological design (being some of the smallest endotherms), physiological limits (e.g., the highest vertebrate mass-specific metabolic rates while hovering, Lasiewski 1963 ...

Shifting Paradigms in the Mechanics of Nectar Extraction ...

We have a tiger by the tail, folks; "integrative biology" suddenly has cachet and significance. Many biologists now call themselves integrative biologists; academic units in the U.S. are changing their names to Integrative Biology (it occurred at Berkeley twelve years ago, and the department has been trying to develop wide-ranging but coherent research and teaching in integrative biology ...

What is "Integrative Biology"?1 | Integrative and ...

Ecological Morphology Integrative Organismal Biology PDF ? Ecological MorphologyePUB æ Integrative OrganismalPDF EPUB ½ Ecological morphology examines the relation between an animal's anatomy and physiology—its form and function—and how the animal has evolved in and can inhabit a particular environment Within the past few years research in this relatively new area has ex

Ecological morphology examines the relation between an animal's anatomy and physiology—its form and function—and how the animal has evolved in and can inhabit a particular environment. Within the past few years, research in this relatively new area has exploded. Ecological Morphology is a synthesis of major concepts and a demonstration of the ways in which this integrative approach can yield rich and surprising results. Through this interdisciplinary study, scientists have been able to understand, for instance, how bat wing design affects habitat use and bat diet; how the size of a predator affects its ability to capture and eat certain prey; and how certain mosquitoes have evolved physiologically and morphologically to tolerate salt-water habitats. Ecological Morphology also covers the history of the field, the role of the comparative method in studying adaptation, and the use of data from modern organisms for understanding the ecology of fossil communities. This book provides an overview of the achievements and potential of ecological morphology for all biologists and students interested in the way animal design, ecology, and evolution interact.

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First Published in 2000. Routledge is an imprint of Taylor & Francis, an informa company.

Damselfishes (Pomacentridae) are highly conspicuous, diurnal inhabitants of mainly reef areas, capturing the attention of many scientists. Their high diversity and the many interesting characteristics dealing with their way of life (sound production, breeding biology, sex change, farming and gregarious behavior, settlement, diet, habitat) easily explain how this group is continually kept in the limelight and is the subject of numerous studies. This book gathers the data dealing with damselfish morphology, physiology, behavior, ecology and phylogeny.It contains 14 chapters written by renowned scientists.

Ecomorphology is the comparative study of the influence of morphology on ecological relationships and the evolutionary impact of ecological factors on morphology in different life intervals, populations, species, communities, and evolutionary lineages. The book reviews early attempts at qualitative descriptions of ecomorphological patterns in fishes, especially those of the Russian school. More recent, quantitative studies are emphasised, including multivariate approaches to ecomorphological analysis, the selection of functionally important ecological and morphological variables to analyze, an experimental approach using performance tests to examine specific hypotheses derived from functional morphology, and the evolutionary interpretations of ecomorphological patterns. Six major areas of fish biology are focused on: feeding, sensory systems, locomotion, respiration, reproduction, and phylogenetic relationships. The 18 papers in the volume document: (1) how the morphology of bony fishes constrains ecological patterns and the use of resources; (2) whether ecological constraints can narrow the niche beyond the limits imposed by morphology (fundamental vs. realized niche); (3) how communities of fishes are organized with respect to ecomorphological patterns; and (4) the degree to which evolutionary pressures have produced convergent or divergent morphologies in fishes. A concluding paper summarizes ecomorphological research in fishes and points out taxa that are underrepresented or are especially promising for future research.

Table of contents

As the first four-legged vertebrates, called tetrapods, crept up along the shores of ancient primordial seas, feeding was among the most paramount of their concerns. Looking back into the mists of evolutionary time, fish-like ancestors can be seen transformed by natural selection and other evolutionary pressures into animals with feeding habitats as varied as an anteater and a whale. From frog to pheasant and salamander to snake, every lineage of tetrapods has evolved unique feeding anatomy and behavior. Similarities in widely divergent tetrapods vividly illustrate their shared common ancestry. At the same time, numerous differences between and among tetrapods document the power and majesty that comprises organismal evolutionary history. Feeding is a detailed survey of the varied ways that land vertebrates acquire food. The functional anatomy and the control of complex and dynamic structural components are recurrent themes of this volume. Luminaries in the discipline of feeding biology have joined forces to create a book certain to stimulate future studies of animal anatomy and behavior.

"In a book both beautifully illustrated and deeply informative, Jonathan Losos, a leader in evolutionary ecology, celebrates and analyzes the diversity of the natural world that the fascinating anoline lizards epitomize. Readers who are drawn to nature by its beauty or its intellectual challenges—or both—will find his book rewarding."—Douglas J. Futuyma, State University of New York, Stony Brook "This book is destined to become a classic. It is scholarly, informative, stimulating, and highly readable, and will inspire a generation of students."—Peter R. Grant, author of How and Why Species Multiply: The Radiation of Darwin's Finches "Anoline lizards experienced a spectacular adaptive radiation in the dynamic landscape of the Caribbean islands. The radiation has extended over a long period of time and has featured separate radiations on the larger islands. Losos, the leading active student of these lizards, presents an integrated and synthetic overview, summarizing the enormous and multidimensional research literature. This engaging book makes a wonderful example of an adaptive radiation accessible to all, and the lavish illustrations, especially the photographs, make the anoles come alive in one's mind."—David Wake, University of California, Berkeley "This magnificent book is a celebration and synthesis of one of the most eventful adaptive radiations known. With disarming prose and personal narrative Jonathan Losos shows how an obsession, beginning at age ten, became a methodology and a research plan that, together with studies by colleagues and predecessors, culminated in many of the principles we now regard as true about the origins and maintenance of biodiversity. This work combines rigorous analysis and glorious natural history in a unique volume that stands with books by the Grants on Darwin's finches among the most informed and engaging accounts ever written on the evolution of a group of organisms in nature."—Dolph Schluter, author of The Ecology of Adaptive Radiation

The International Encyclopedia of Primatology represents the first comprehensive encyclopedic reference focusing on the behaviour, biology, ecology, evolution, genetics, and taxonomy of human and non-human primates. Represents the first comprehensive encyclopedic reference relating to primatology Features more than 450 entries covering topics ranging from the taxonomy, history, behaviour, ecology, captive management and diseases of primates to their use in research, cognition, conservation, and representations in literature Includes coverage of the basic scientific concepts that underlie each topic, along with the latest advances in the field Highly accessible to undergraduate and graduate students in primatology, anthropology, and the medical, biological and zoological sciences Essential reference for academics, researchers and commercial and conservation organizations This work is also available as an online resource at www.encyclopediaofprimatology.com

An introduction to the multidisciplinary field of hominin paleoecology for advanced undergraduate students and beginning graduate students, Early Hominin Paleoecology offers an up-to-date review of the relevant literature, exploring new research and synthesizing old and new ideas. Recent advances in the field and the laboratory are not only improving our understanding of human evolution but are also transforming it. Given the increasing specialization of the individual fields of study in hominin paleontology, communicating research results and data is difficult, especially to a broad audience of graduate students, advanced undergraduates, and the interested public. Early Hominin Paleoecology provides a good working knowledge of the subject while also presenting a solid grounding in the sundry ways this knowledge has been constructed. The book is divided into three sections—climate and environment (with a particular focus on the latter), adaptation and behavior, and modern analogs and models—and features contributors from various fields of study, including archaeology, primatology, paleoclimatology, sedimentology, and geochemistry. Early Hominin Paleoecology is an accessible introduction into this fascinating and ever-evolving field and will be essential to any student interested in pursuing research in human paleoecology. Additional Contributors: David Braun Beth Christensen David J. Daegling Crag Feibel Fred E. Grine Clifford Jolly Naomi E. Levin Mark A. Maslin John Mitani Jay Quade Amy L. Rector Jeanne Sept Lillian M. Spencer Mark Teaford Carol V. Ward Katy E. Wilson

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