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An early sensory shift from savory to sweet shaped the sensory biology of songbirds

Analysis of a new Heterodontosaurus specimen reveals how ornithischian dinosaurs evolved a unique body structure and sheds light on what this meant for their breathing.

Fossil sheds new light on early evolution of plant-eating dinosaurs

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This has resulted in biotechnologies with a limited functional shelf-life that fail to make use of the powerful evolutionary capabilities inherent to all biology. Sim Castle ... this change

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I have chosen two theories that I believe relate to the killing cousins case. As you know Gore and Waterfield were known as the killing cousins. They were both arrested in 1983 under the charges of ...

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A research group led by Grigory Genikhovich at the Department of Neurosciences and Developmental Biology tried to find out how the ancestral β -catenin dependent axial patterning worked.

The evolution of axial patterning

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To assess nonadaptive evolution, this project will collect DNA from Eastern ... management decisions on wildlife while teaching local students about evolutionary biology, mammalogy, and field research ...

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This book synthesizes much of the exciting recent research in the biology of language. Drawing on data from anatomy, neurophysiology, physiology, and behavioral biology, Philip Lieberman develops a new approach to the puzzle of language, arguing that it is the result of many evolutionary compromises. Within his discussion, Lieberman skillfully addresses matters as various as the theory of neoteny (which he refutes), the mating calls of bullfrogs, ape language, dyslexia, and computer-implemented models of the brain.

Biology and Evolution of the Mexican Cavefish features contributions by leading researchers in a comprehensive, unique work that examines a number of distinct areas of biology—evolution, development, ecology, and behavior—using

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the Mexican cavefish as a powerful model system to further understanding of basic biological processes such as eye degeneration, hearing, craniofacial development, sleep, and metabolic function. These fish are currently being used to better understand a number of issues related to human health, including age-related blindness, sleep, obesity, mood-related disorders, and aging. The recent sequencing of the cavefish genome broadens the interest of this system to groups working with diverse biological systems, and has helped researchers identify genes that regulate sleep, eye degeneration, and metabolic function. Mexican cavefish are particularly powerful for the study of biological processes because these fish evolved independently in twenty-nine caves in the Sierra de el Abra Region of Northeast Mexico.

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These fish have dramatic adaptations to the cave environment, and this can be used to identify genes involved in disease-related traits. This scholarly text will be of interest to researchers and students throughout diverse areas of biology and ecology. It includes photographs of animals and behavior in laboratory and natural settings that will also increase interest and accessibility to non-experts. Includes a mixture of images and illustrations such as the geographical distribution of cave pools and the developmental biology of the nervous system Features a companion site with geographical maps Fills a notable gap in the literature on a topic of broad interest to the scientific community Presents the recent sequencing of the cavefish genome as a groundbreaking development for researchers working with

Read Free The Biology And Evolution Of Trematodes An Essay On The Biology Morphology Life Cycles Transmissions And diverse biological systems

Molluscs comprise the second largest phylum of animals (after arthropods), occurring in virtually all habitats. Some are commercially important, a few are pests and some carry diseases, while many non-marine molluscs are threatened by human impacts which have resulted in more extinctions than all tetrapod vertebrates combined. This book and its companion volume provide the first comprehensive account of the Mollusca in decades. Illustrated with hundreds of colour figures, it reviews molluscan biology, genomics, anatomy, physiology, fossil history, phylogeny and classification. This volume includes general chapters drawn from extensive and diverse literature on the anatomy and physiology of their

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structure, movement, reproduction, feeding, digestion, excretion, respiration, nervous system and sense organs.

Other chapters review the natural history (including ecology) of molluscs, their interactions with humans, and assess research on the group. Key features of both volumes: up to date treatment with an extensive bibliography; thoroughly examines the current understanding of molluscan anatomy, physiology and development; reviews fossil history and phylogenetics; overviews ecology and economic values; and summarises research activity and suggests future directions for investigation. Winston F Ponder was a Principal Research Scientist at The Australian Museum in Sydney where he is currently a Research Fellow. He has published extensively over the last 55 years on the systematics, evolution, biology

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Morphology Life Cycle Transmission And and conservation of marine and freshwater molluscs, as well as supervised post graduate students and run university courses. David R. Lindberg is former Chair of the Department of Integrative Biology, Director of the Museum of Paleontology, and Chair of the Berkeley Natural History Museums, all at the University of California. He has conducted research on the evolutionary history of marine organisms and their habitats on the rocky shores of the Pacific Rim for more than 40 years. The numerous elegant and interpretive illustrations were produced by Juliet Ponder.

Biology and Evolution of Crocodylians is a comprehensive review of current knowledge about the world's largest and most famous living reptiles. Gordon Grigg's authoritative and

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accessible text and David Kirshner's stunning interpretive artwork and colour photographs combine expertly in this contemporary celebration of crocodiles, alligators, caimans and gharials. This book showcases the skills and capabilities that allow crocodylians to live how and where they do. It covers the biology and ecology of the extant species, conservation issues, crocodylian–human interaction and the evolutionary history of the group, and includes a vast amount of new information; 25 per cent of 1 100 cited publications have appeared since 2007. Richly illustrated with more than 500 colour photographs and black and white illustrations, this book will be a benchmark reference work for crocodylian biologists, herpetologists and vertebrate biologists for years to come.

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The Evolutionary Biology of Extinct and Extant Organisms offers a thorough and detailed narration of the journey of biological evolution and its major transitional links to the biological world, which began with paleontological exploration of extinct organisms and now carries on with reviews of phylogenomic footprint reviews of extant, living fossils. This book moves through the defining evolutionary stepping stones starting with the evolutionary changes in prokaryotic, aquatic organisms over 4 billion years ago to the emergence of the modern human species in Earth's Anthropocene. The book begins with an overview of the processes of evolutionary fitness, the epicenter of the principles of evolutionary biology. Whether through natural or experimental

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occurrence, evolutionary fitness has been found to be the cardinal instance of evolutionary links in an organism between its ancestral and contemporary states. The book then goes on to detail evolutionary trails and lineages of groups of organisms including mammalians, reptilians, and various fish. The final section of the book provides a look back at the evolutionary journey of "nonliving" or extinct organisms, versus the modern-day transition to "living" or extant organisms. The Evolutionary Biology of Extinct and Extant Organisms is the ideal resource for any researcher or advanced student in evolutionary studies, ranging from evolutionary biology to general life sciences. Provides an updated compendium of evolution research history Details the evolution trails of organisms, including mammals, reptiles,

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arthropods, annelids, mollusks, protozoa, and more Offers an accessible and easy-to-read presentation of complex, in-depth evolutionary biology facts and theories

With their team of contemporary scholars, the editors present a thorough coverage of fundamental topics necessary for obtaining an up-to-date understanding of the biology of ferns and lycophytes. The book is organized into major topics that build from the individual and its biochemistry and structure, to genetics and populations, to interactions among individuals and the conservation of species, and concludes with perspectives on evolutionary history and classification. Each chapter is organized to review past work, explore current questions, and suggest productive directions for continued

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Written for upper undergraduates, graduates and academic researchers, *Biology and Evolution of Ferns and Lycophytes* fills a major gap in biological, organism-level, evolutionary literature by providing a review of the biology and evolution of this important group of vascular land plants.

The book by K. V. Galaktionov and A. A. Dobrovolskij maintains the tradition of monographs devoted to detailed coverage of digenetic trematodes in the tradition of B. Dawes (1946) and T. A. Ginetsinskaya (1968). In this respect, the book is traditional in both its form and content. In the beginning (Chapter 1), the authors provide a consistent analysis of the morphological features of all life cycle stages.

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Importantly, they present a detailed characterization of sporocysts and rediae whose morphological-functional organization has never been comprehensively described in modern literature. The authors not only list morphological characteristics, but also analyze the functional significance of different morphological structures and hypothesize about their evolution. Special attention is given to specific features of morphogenesis in all stages of the trematode life cycle. On this basis, the authors provide several original suggestions about the possible origins of morphological evolution of the parthenogenetic (asexual) and the hermaphroditic generations. This is followed by a detailed consideration of the various morphological-biological adaptations that ensure the successful completion of the complex life cycles of these

Read Free The Biology And Evolution Of Trematodes An Essay On The Biology Parasites (Chapter 2). Life cycles inherent in different trematodes are subject to a special analysis (Chapter 3). The authors distinguish several basic types of life cycles and suggest an original interpretation of their evolutionary origin. Chapter 4 features the analysis of structure and the dynamics of trematode populations and is unusual for a monograph of this type.

Biological evolution, the theory of natural selection and of common descent, is a triumph both of human reasoning and scientific undertaking. The biological discipline of evolution contains both a chronicle of human endeavour and the story of life on Earth. This book is concerned with living forms and how they developed from 'simple and unpromising

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beginnings'. It considers evolution as both process and product. The author, an experienced teacher and educator, employs a historical narrative, used to convey the idea of 'change with modification' and to emphasise the relevance of evolution to contemporary bioscience. Biological evolution has now become part of the scientific orthodoxy and this accessible text will assist undergraduate students in the biological sciences within any ongoing debate.

This book provides up-to-date coverage of fossil plants from Precambrian life to flowering plants, including fungi and algae. It begins with a discussion of geologic time, how organisms are preserved in the rock record, and how organisms are studied and interpreted and takes the student

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through all the relevant uses and interpretations of fossil plants. With new chapters on additional flowering plant families, paleoecology and the structure of ancient plant communities, fossil plants as proxy records for paleoclimate, new methodologies used in phylogenetic reconstruction and the addition of new fossil plant discoveries since 1993, this book provides the most comprehensive account of the geologic history and evolution of microbes, algae, fungi, and plants through time. * Major revision of a 1993 classic reference * Lavishly illustrated with 1,800 images and user friendly for use by paleobotanists, biologists, geologists and other related scientists * Includes an expanded glossary with an extensive up-to-date bibliography and a comprehensive index * Provides extensive coverage of fungi and other

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The Evolution of Molecular Biology: The Search for the Secrets of Life provides the historical knowledge behind techniques founded in molecular biology, also presenting an appreciation of how, and by whom, these discoveries were made. It deals with the evolution of intellectual concepts in the context of active research in an approachable language that accommodates readers from a variety of backgrounds. Each chapter contains a prologue and epilogue to create continuity and provide a complete framework of molecular biology. This foundational work also functions as a historical and conceptual supplement to many related courses in

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biochemistry, biology, chemistry, genetics and history of science. In addition, the book demonstrates how the roots of discovery and advances—and an individual's own research—have grown out of the history of the field, presenting a more complete understanding and context for scientific discovery. Expands on the development of molecular biology from the convergence of two independent disciplines, biochemistry and genetics Discusses the value of molecular biology in a variety of applications Includes research ethics and the societal implications of research Emphasizes the human aspects of research and the consequences of such advances to society

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