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A Primer on Reptiles and Amphibians is an innovative educational resource designed to forge a connection between the reader and the creeping critters of the world. Turtles, frogs, lizards, salamanders, snakes, and crocodiles—these animals evoke fear and fascination. This primer dispels myths

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and unlocks mysteries surrounding these diverse survivors which have mastered virtually every habitat on Earth.

Tragically, these animals now face pressures of unprecedented severity, but there is still time to make a difference if more of us work together. Micha Petty is an international award-winning Master Naturalist and wildlife rehabilitator. This critically-acclaimed debut volume is a collection of Micha's interpretive writings, carefully crafted to make

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learning easy for everyone. These bulletins display his passion for Conservation Through Education while covering topics such as living harmoniously with wildlife, physiology, natural history, observation, and conservation. Flip to any page to be instantly introduced to new facets of reptiles, amphibians, the perils they face, and how you can join the fight to save them.

Generously illustrated, this essential

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handbook for herpetologists, ecologists, and naturalists features comprehensive keys to eggs, embryos, salamander larvae, and tadpoles; species accounts; a glossary of terms; and an extensive bibliography. The taxonomic accounts include a summarization of the morphology and basic natural history, as well as an introduction to published information for each species. Tadpole mouthparts exhibit major characteristics used in identifications, and the book

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includes illustrations for a number of species. Color photographs of larvae of many species are also presented.

Handbook of Larval Amphibians of the United States and Canada, written by the foremost experts on larval amphibians, is the first guide of its kind and will transform the fieldwork of scientists and fish and wildlife professionals.

The Framework for Post-Phylogenetic Systematics reframes biological systematics to reconcile classical and

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cladistic schools. It combines scientific intuition and statistical inference in a new form of total evidence analysis developing a joint macroevolutionary process-based causal theory. Discrepancies between classical results and morphological and molecular cladograms are explained through heterophyletic inference of deep ancestral taxa, coarse priors leading to Bayesian Solution of total evidence, self-nesting ladders that can reverse

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branching order, and a superoptimization protocol that aids in distinguishing pseudoextinction from budding evolution. It determines direction of transformative evolution through Dollo evaluation at the taxon level. The genus as a basic, practical unit of evolution is postulated for taxa with dissilient evolution. Scientific intuition is defended as highly developed heuristics based on physical principles. The geometric mean and Fibonacci series in

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powers of the golden ratio explain distributions of measurements of the form $(a-b)/c-d$ when close to zero. This series is basic both to S. J. Gould's speciation reformulation of macroevolution and to psychologically salient numbers. The effect of molecular systematics on conservation and biodiversity research is shown to be of immediate concern. The value of cladistic study for serial macroevolutionary reconstruction is reduced to—in

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morphological studies, evaluation of relatively primitive or advanced taxa, and distinction of taxa by autapomorphies, and—in molecular studies, identification of deep ancestors via heterophyly or unreasonable patristic distance not explainable by extinct or unsampled extended paraphyly. Evolutionary paraphyly is common in cladistics and is to be avoided; phylogenetic paraphyly, however, can be informative.

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The Human Body: Linking Structure and Function provides knowledge on the human body's unique structure and how it works. Each chapter is designed to be easily understood, making the reading interesting and approachable. Organized by organ system, this succinct publication presents the functional relevance of developmental studies and integrates anatomical function with structure. Focuses on bodily functions and the human body's unique structure

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Offers insights into disease and disorders and their likely anatomical origin Explains how developmental lineage influences the integration of organ systems

An Introduction to Biostatistics

CK-12 Biology Workbook

Comparing the Literatures

Linking Structure and Function

Third Edition

The Human Body

In the face of so many unprecedented

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changes in our environment, the pressure is on scientists to lead the way toward a more sustainable future. Written by a team of ecologists, Monitoring Animal Populations and Their Habitats: A Practitioner's Guide provides a framework that natural resource managers and researchers can use to design monitoring programs that will benefit future generations by distilling the information needed to make informed decisions. In addition,

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this text is valuable for undergraduate- and graduate-level courses that are focused on monitoring animal populations. With the aid of more than 90 illustrations and a four-page color insert, this book offers practical guidance for the entire monitoring process, from incorporating stakeholder input and data collection, to data management, analysis, and reporting. It establishes the basis for why, what, how, where, and when

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monitoring should be conducted; describes how to analyze and interpret the data; explains how to budget for monitoring efforts; and discusses how to assemble reports of use in decision-making. The book takes a multi-scaled and multi-taxa approach, focusing on monitoring vertebrate populations and upland habitats, but the recommendations and suggestions presented are applicable to a variety of monitoring programs. Lastly, the

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book explores the future of monitoring techniques, enabling researchers to better plan for the future of wildlife populations and their habitats.

Monitoring Animal Populations and Their Habitats: A Practitioner's Guide

furtheres the goal of achieving a world in which biodiversity is allowed to evolve and flourish in the face of such uncertainties as climate change, invasive species proliferation, land use expansion, and population growth.

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Although feeding is not yet been thoroughly studied in many vertebrates taxa, and different conceptual and methodological approaches of the concerned scientists make a synthesis difficult, the aim of the editors is to provide a comprehensive overview of the feeding design in aquatic and terrestrial vertebrates with a detailed description of its functional properties. The book emphasizes the constant interaction between function

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and form, behaviour and morphology in the course of evolution of the feeding apparatus and way of feeding both complementary and basically related to survival interspecific competition, adaptation to environmental changes and adaptive radiations. Special stress is drawn on quantification of the observational and experimental data on the morphology and biomechanics of the feeding design and its element jaws, teeth, hyoidean apparatus, tongue, in

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order to allow present and further comparisons in an evolutionary perspective.

Urban Environmental Education Review explores how environmental education can contribute to urban sustainability. Urban environmental education includes any practices that create learning opportunities to foster individual and community well-being and environmental quality in cities. It fosters novel educational approaches and helps debunk

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common assumptions that cities are ecologically barren and that city people don't care for, or need, urban nature or a healthy environment. Topics in Urban Environmental Education Review range from the urban context to theoretical underpinnings, educational settings, participants, and educational approaches in urban environmental education. Chapters integrate research and practice to help aspiring and practicing environmental educators,

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urban planners, and other environmental leaders achieve their goals in terms of education, youth and community development, and environmental quality in cities. The ten-essay series Urban EE Essays, excerpted from Urban Environmental Education Review, may be found here: naaee.org/eepro/resources/urban-ee-essays. These essays explore various perspectives on urban environmental education and may be reprinted/reproduced only with

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permission from Cornell University Press.

This new publication in the Models and Modeling in Science Education series synthesizes a wealth of international research on using multiple representations in biology education and aims for a coherent framework in using them to improve higher-order learning. Addressing a major gap in the literature, the volume proposes a theoretical model for advancing biology

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educators' notions of how multiple external representations (MERs) such as analogies, metaphors and visualizations can best be harnessed for improving teaching and learning in biology at all pedagogical levels. The content tackles the conceptual and linguistic difficulties of learning biology at each level—macro, micro, sub-micro, and symbolic, illustrating how MERs can be used in teaching across these levels and in various combinations, as well as

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in differing contexts and topic areas. The strategies outlined will help students' reasoning and problem-solving skills, enhance their ability to construct mental models and internal representations, and, ultimately, will assist in increasing public understanding of biology-related issues, a key goal in today's world of pressing concerns over societal problems about food, environment, energy, and health. The book concludes

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by highlighting important aspects of research in biological education in the post-genomic, information age.

A Human Approach

Dialogues for the Biology Classroom

Invertebrates of the H.J. Andrews

Experimental Forest, Western Cascade Mountains, Oregon

Dialogue on Early Childhood Science, Mathematics, and Technology Education

Reclaiming Darwin's Vision

the oribatid mites (Acari:

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Cryptostigmata) . IV

Monitoring protocols are presented for: landbirds; raptors; small, medium and large mammals; bats; terrestrial amphibians and reptiles; vertebrates in aquatic ecosystems; plant species, and habitats. From a leading figure in comparative literature, a major new survey of the field that points the way forward for a discipline undergoing rapid changes

Literary studies are being transformed today by the expansive and disruptive forces of globalization. More works than ever circulate worldwide in English and in translation, and even national traditions are increasingly seen in transnational terms. To encompass this expanding literary universe, scholars

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and teachers need to expand their linguistic and cultural resources, rethink their methods and training, and reconceive the place of literature and criticism in the world. In *Comparing the Literatures*, David Damrosch integrates comparative, postcolonial, and world-literary perspectives to offer a comprehensive overview of comparative studies and its prospects in a time of great upheaval and great opportunity. *Comparing the Literatures* looks both at institutional forces and at key episodes in the life and work of comparatists who have struggled to define and redefine the terms of literary analysis over the past two centuries, from Johann Gottfried Herder and Germaine de Staël to Edward Said,

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Gayatri Spivak, Franco Moretti, and Emily Apter. With literary examples ranging from Ovid and Kālidāsa to James Joyce, Yoko Tawada, and the internet artists Young-Hae Chang Heavy Industries, Damrosch shows how the main strands of comparison—philology, literary theory, colonial and postcolonial studies, and the study of world literature—have long been intertwined. A deeper understanding of comparative literature's achievements, persistent contradictions, and even failures can help comparatists in literature and other fields develop creative responses to today's most important questions and debates. Amid a multitude of challenges and new possibilities for comparative literature, Comparing the Literatures

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provides an important road map for the discipline's revitalization.

Prentice Hall Biology utilizes a student-friendly approach that provides a powerful framework for connecting the key concepts of biology. New BIG IDEAs help all students focus on the most important concepts. Students explore concepts through engaging narrative, frequent use of analogies, familiar examples, and clear and instructional graphics. Now, with Success Tracker(tm) online, teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension. Targeted remediation is available too! Whether using the text alone or in tandem with exceptional

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ancillaries and technology, teachers can meet the needs of every student at every learning level. With unparalleled reading support, resources to reach every student, and a proven research-based approach, authors Kenneth Miller and Joseph Levine continue to set the standard. Prentice Hall Biology delivers: Clear, accessible writing Up-to-date content A student friendly approach A powerful framework for connecting key concepts A DNA barcode in its simplest definition is one or more short gene sequences taken from a standardized portion of the genome that is used to identify species through reference to DNA sequence libraries or databases. In DNA Barcodes: Methods

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and Protocols expert researchers in the field detail many of the methods which are now commonly used with DNA barcodes. These methods include the latest information on techniques for generating, applying, and analyzing DNA barcodes across the Tree of Life including animals, fungi, protists, algae, and plants. Written in the highly successful Methods in Molecular Biology™ series format, the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory. Thorough and intuitive, DNA Barcodes: Methods and Protocols aids scientists in continuing to study methods from wet-lab protocols, statistical, and ecological analyses along with guides

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to future, large-scale collections campaigns.

Philosophy of Developmental Biology

Phylum Bryozoa

A Practitioner's Guide

Salamanders in Regeneration Research

An Emerging Threat to Human, Animal, and Plant Health: Workshop Summary

Monitoring Animal Populations and Their Habitats

With an account of over 6.000 recent and 15.000 fossil species, phylum Bryozoa represents a quite large and important phylum of colonial filter feeders. This volume of the series Handbook of Zoology contains new findings on phylogeny, morphology and evolution that have

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significantly improved our knowledge and understanding of this phylum. It is a comprehensive book that will be a standard for many specialists but also newcomers to the field of bryozoology.

Teacher's guide to hands-on environmental education activities for 5th and 6th grade students, written for use at Great Smoky Mountains Institute, but adaptable for use elsewhere. With the objective of connecting people and nature, lessons cover geology, orienteering, stream ecology, etc., plus lessons designed so students work cooperatively to solve physical problems.

Biology lessons structured around dialogues - two person conversations about biology topics.

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This classroom resource provides clear, concise scientific information in an understandable and enjoyable way about water and aquatic life. Spanning the hydrologic cycle from rain to watersheds, aquifers to springs, rivers to estuaries, ample illustrations promote understanding of important concepts and clarify major ideas. Aquatic science is covered comprehensively, with relevant principles of chemistry, physics, geology, geography, ecology, and biology included throughout the text. Emphasizing water sustainability and conservation, the book tells us what we can do personally to conserve for the future and presents job and volunteer opportunities in the hope that some students will pursue careers in aquatic science. Texas

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Aquatic Science, originally developed as part of a multi-faceted education project for middle and high school students, can also be used at the college level for non-science majors, in the home-school environment, and by anyone who educates kids about nature and water. The project's home on the web can be found at

<http://texasaquaticscience.org>

Biology Reconsidered

Biomechanics of Feeding in Vertebrates

Connecting People and Nature

Multiple Representations in Biological Education

Assessing Risks to Endangered and Threatened Species from Pesticides

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Biology of Subterranean Fishes

The US Fish and Wildlife Service (FWS) and the National Marine Fisheries Service (NMFS) are responsible for protecting species that are listed as endangered or threatened under the Endangered Species Act (ESA) and for protecting habitats that are critical for their survival. The US Environmental Protection Agency (EPA) is responsible for registering or reregistering pesticides under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and must ensure that pesticide use does not cause any unreasonable adverse effects on the environment, which is interpreted to include listed species and their critical habitats. The agencies have developed their own approaches to evaluating environmental risk, and their approaches differ because their legal mandates, responsibilities, institutional cultures, and expertise differ. Over the years, the

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agencies have tried to resolve their differences but have been unsuccessful in reaching a consensus regarding their assessment approaches. As a result, FWS, NMFS, EPA, and the US Department of Agriculture asked the National Research Council (NRC) to examine scientific and technical issues related to determining risks posed to listed species by pesticides. Specifically, the NRC was asked to evaluate methods for identifying the best scientific data available; to evaluate approaches for developing modeling assumptions; to identify authoritative geospatial information that might be used in risk assessments; to review approaches for characterizing sublethal, indirect, and cumulative effects; to assess the scientific information available for estimating effects of mixtures and inert ingredients; and to consider the use of uncertainty factors to account for gaps in data. Assessing Risks to Endangered

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and Threatened Species from Pesticides, which was prepared by the NRC Committee on Ecological Risk Assessment under FIFRA and ESA, is the response to that request.

This detailed volume focuses on best practices and conditions for maintaining the most commonly used salamander species in the laboratory. *Salamanders in Regeneration Research: Methods and Protocols* guides readers through experimental manipulations in vivo and in vitro, respectively. With methods on targeting a wide variety of structures, ranging from the limb to the heart and to the brain, and methods for studying genetically modified organisms and tools for mining in the genomic databases. Written in the highly successful *Methods in Molecular Biology* series format, chapters include introduction to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory

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protocols, and tips on troubleshooting and avoiding known pitfalls. Authoritative and up-to-date, Salamanders in Regeneration Research: Methods and Protocols provides a comprehensive collection of methods chapters.

Cooperative Evolution offers a fresh account of evolution consistent with Charles Darwin's own account of a cooperative, interconnected, buzzing and ever-changing world. Told in accessible language, treating evolutionary change as a cooperative enterprise brings some surprising shifts from the traditional emphasis on the dominance of competition. The book covers many evolutionary changes reconsidered as cooperation. These include the cooperative origins of life, evolution as a spiral rather than a ladder or tree, humans as a part of natural systems rather than the purpose, relationships between natural and social change, and the role of the

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individual in adaptive radiation onto new ground. The story concludes with a projection of human evolution from the past into the future. ‘Environmental studies courses have needed a book like Cooperative Evolution for a long time. It is a boon for those teaching the complexity of the evolutionary story.’ — Dr John A. Harris, BSc(Hons) MSc PhD, School of Environmental Science, University of Canberra ‘As a regenerative, holistic-thinking farmer I daily witness the results of cooperative evolution as the seasons unfold. A pleasure to read, Cooperative Evolution gives entry to recent thinking on evolutionary processes.’ — David Marsh, MSA, ‘Allendale’, Boorowa, New South Wales, 2018 National Individual Landcarer Award recipient ‘This book is an engaging new look at ideas about evolution as we know it today. In the hands of two eminent biologists, it presents an approachable yet challenging

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argument. I heartily recommend it.' — Emeritus Professor Sue Stocklmayer AO, BSc MSc PhD, Centre for the Public Awareness of Science, The Australian National University

Educators, scholars, and researchers in the United States convened at the Forum on Early Childhood Science, Mathematics, and Technology Education to discuss how, when, and even if science, mathematics, and technology should be taught to pre-kindergarten children. The product of that forum, this book summarizes some of the latest thinking about early childhood science, mathematics, and technology education. Articles are organized into sections covering perspectives; learning context; first experiences in science, mathematics, and technology; and fostering high-quality programs. The articles are as follows: (1) "Early Childhood Education in Science, Mathematics, and Technology: An NSTA Perspective"

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(Fred Johnson--National Science Teachers Association); (2) "Toward a Research Agenda in Early Childhood Science, Mathematics, and Technology Education" (Alverna M. Champion--National Science Foundation); (3) "Making Sense of the World" (Shirley Malcom--American Association for the Advancement of Science); (4) "The Forum on Early Childhood Science, Mathematics, and Technology Education" (Jacqueline R. Johnson--Grand Valley State University, Allendale, Michigan); (5) "The State of Early Childhood Programs in America; Challenges for the New Millenium" (Barbara Day and Tracie Yarbrough--The University of North Carolina-Chapel Hill); (6) "Policy Implications for Math, Science, and Technology in Early Childhood Education" (Barbara T. Bowman--Erikson Institute); (7) "Concept Development in Preschool Children" (Susan A. Gelman--University of Michigan-

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Ann Arbor); (8) "Educating Young Children in Math, Science, and Technology" (David Elkind--Tufts University, Medford, Massachusetts); (9) "Science in Early Childhood: Developing and Acquiring Fundamental Concepts and Skills" (Karen K. Lind--University of Louisville, Kentucky); (10) "Early Childhood Mathematics" (Susan Sperry Smith--Cardinal Stritch University, Milwaukee, Wisconsin); (11) "Young Children and Technology" (Douglas Clements--SUNY-Buffalo, New York); (12) "Science Assessment in Early Childhood Programs" (Edward Chittenden and Jacqueline Jones--Educational Testing Service); (13) "Preparing Teachers of Young Learners: Professional Development of Early Childhood Teachers in Mathematics and Science" (Juanita V. Copley and Yolanda Padron--University of Houston, Texas); (14) "Partnerships among Families, Early Childhood Educators, and

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Communities To Promote Early Learning in Science, Mathematics, and Technology" (Heather B. Weiss--Harvard Family Research Project); and (15) "Playing Fair and Square: Issues of Equity in Preschool Mathematics, Science, and Technology" (Rebecca S. New--University of New Hampshire). Each article contains references. The book concludes with lists of selected resources and of the forum attendees. (HTH)

Molecular Plant Taxonomy

On the Origin of Species by Means of Natural Selection; Or, The Preservation of Favoured Races in the Struggle for Life

DNA Barcodes

Ecology and Classification of North American Freshwater

Invertebrates

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A Standardized Protocol for Surveying Aquatic Amphibians

Earth is home to an estimated 8 million animal species, 600,000 fungi, 300,000 plants, and an undetermined number of microbial species. Of these animal, fungal, and plant species, an estimated 75% have yet to be identified. Moreover, the interactions between these species and their physical environment are known to an even lesser degree. At the same time, the earth's biota faces the prospect of climate change, which may manifest slowly or extremely rapidly, as well as a human

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population set to grow by two billion by 2045 from the current seven billion. Given these major ecological changes, we cannot wait for a complete biota data set before assessing, planning, and acting to preserve the ecological balance of the earth. This book provides comprehensive coverage of the scientific and engineering basis of the systems ecology of the earth in 15 detailed, peer-reviewed entries written for a broad audience of undergraduate and graduate students as well as practicing professionals in

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government, academia, and industry. The methodology presented aims at identifying key interactions and environmental effects, and enabling a systems-level understanding even with our present state of factual knowledge.

Exploring Zoology: A Laboratory Guide is designed to provide a comprehensive, hands-on introduction to the field of zoology. This manual provides a diverse series of observational and investigative exercises, delving into the anatomy, behavior, physiology, and ecology of the major

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invertebrate and vertebrate lineages. The history of developmental biology is interwoven with debates as to whether mechanistic explanations of development are possible or whether alternative explanatory principles or even vital forces need to be assumed. In particular, the demonstrated ability of embryonic cells to tune their developmental fate precisely to their relative position and the overall size of the embryo was once thought to be inexplicable in mechanistic terms. Taking a causal perspective, this

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Element examines to what extent and how developmental biology, having turned molecular about four decades ago, has been able to meet the vitalist challenge. It focuses not only on the nature of explanations but also on the usefulness of causal knowledge - including the knowledge of classical experimental embryology - for further scientific discovery. It also shows how this causal perspective allows us to understand the nature and significance of some key concepts, including organizer, signal and morphogen.

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This title is also available as Open Access on Cambridge Core.

Plant taxonomy is an ancient discipline facing new challenges with the current availability of a vast array of molecular approaches which allow reliable genealogy-based classifications. Although the primary focus of plant taxonomy is on the delimitation of species, molecular approaches also provide a better understanding of evolutionary processes, a particularly important issue for some taxonomic complex groups. Molecular Plant

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Taxonomy: Methods and Protocols describes laboratory protocols based on the use of nucleic acids and chromosomes for plant taxonomy, as well as guidelines for phylogenetic analysis of molecular data. Experts in the field also contribute review and application chapters that will encourage the reader to develop an integrative taxonomy approach, combining nucleic acid and cytogenetic data together with other crucial information (taxonomy, morphology, anatomy, ecology, reproductive biology, biogeography, paleobotany), which

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will help not only to best circumvent species delimitation but also to resolve the evolutionary processes in play.

Written in the successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and easily accessible, *Molecular Plant Taxonomy: Methods and Protocols* seeks to provide

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conceptual as well as technical guidelines to plant taxonomists and geneticists.

A Primer on Reptiles and Amphibians

Ecological Systems

Texas Aquatic Science

Handbook of Larval Amphibians of the United States and Canada

Cooperative Evolution

Biological Science

Medical Microbiology Illustrated presents a detailed description of epidemiology, and the biology of microorganisms. It discusses the pathogenicity and virulence of microbial agents. It addresses the intrinsic

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susceptibility or immunity to antimicrobial agents. Some of the topics covered in the book are the types of gram-positive cocci; diverse group of aerobic gram-positive bacilli; classification and clinical importance of erysipelothrix rhusiopathiae; pathogenesis of mycobacterial infection; classification of parasitic infections which manifest with fever; collection of blood for culture and control of substances hazardous to health. The classification and clinical importance of neisseriaceae is fully covered. The definition and pathogenicity of haemophilus are discussed in detail. The text describes in depth the classification and clinical importance of spiral bacteria. The isolation and identification of fungi are completely presented. A

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chapter is devoted to the laboratory and serological diagnosis of systemic fungal infections. The book can provide useful information to microbiologists, physicians, laboratory scientists, students, and researchers.

Fungal diseases have contributed to death and disability in humans, triggered global wildlife extinctions and population declines, devastated agricultural crops, and altered forest ecosystem dynamics. Despite the extensive influence of fungi on health and economic well-being, the threats posed by emerging fungal pathogens to life on Earth are often underappreciated and poorly understood. On December 14 and 15, 2010, the IOM's Forum on Microbial Threats hosted a public workshop to

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explore the scientific and policy dimensions associated with the causes and consequences of emerging fungal diseases.

For over a decade, Glover and Mitchell have provided life-sciences students with an accessible, complete introduction to the use of statistics in their disciplines. The authors emphasize the relationships between probability, probability distributions, and hypothesis testing using both parametric and nonparametric analyses. Copious examples throughout the text apply concepts and theories to real questions faced by researchers in biology, environmental science, biochemistry, and health sciences. Dozens of examples and problems are new to the Third Edition, as are

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“Concept Checks”—short questions that allow readers to immediately gauge their mastery of the topics presented. Regardless of mathematical background, all readers will appreciate the value of statistics as a fundamental quantitative skill for the life sciences.

CK-12 Biology Workbook complements its CK-12 Biology book.

Monitoring Amphibians in Great Smoky Mountains National Park

Practical Research

A Framework for Post-Phylogenetic Systematics

Urban Environmental Education Review

Planning and Design

Literary Studies in a Global Age

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Kidney Development and Disease brings together established and young investigators who are leading authorities in nephrology to describe recent advances in three primary areas of research. The first section describes the use of animal models as powerful tools for the discovery of numerous molecular mechanisms regulating kidney development. The second section focuses on nephric cell renewal and differentiation, which lead to diverse cell fates within the developing kidney, and discusses diseases resulting from the aberrant regulation of the balance between cell fate decisions. The final section concentrates on morphogenesis of the developing kidney and its maintenance after formation as well as the diseases resulting from failures in these processes. Kidney form and function have been extensively studied for centuries, leading to discoveries related to their development and disease. Recent scientific advances

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in molecular and imaging techniques have broadened our understanding of nephron development and maintenance as well as the diseases related to these processes.

For undergraduate or graduate courses that include planning, conducting, and evaluating research. A do-it-yourself, understand-it-yourself manual designed to help students understand the fundamental structure of research and the methodical process that leads to valid, reliable results. Written in uncommonly engaging and elegant prose, this text guides the reader, step-by-step, from the selection of a problem, through the process of conducting authentic research, to the preparation of a completed report, with practical suggestions based on a solid theoretical framework and sound pedagogy. Suitable as the core text in any introductory research course or even for self-instruction, this text will show students two

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things: 1) that quality research demands planning and design; and, 2) how their own research projects can be executed effectively and professionally.

The third edition of *Ecology and Classification of North American Freshwater Invertebrates* continues the tradition of in-depth coverage of the biology, ecology, phylogeny, and identification of freshwater invertebrates from the USA and Canada. This text serves as an authoritative single source for a broad coverage of the anatomy, physiology, ecology, and phylogeny of all major groups of invertebrates in inland waters of North America, north of Mexico. Biological invasion, an issue of growing importance due to the significant increase in international transportation and trade, can disturb the balance of local ecosystems and even destroy them. This collection of papers presented at the International Conference on

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Assessment and Control of Biological Invasion Risks held in August 2004 at Yokohama National University discusses risk assessment, risk management and eradication. It also includes contributions reporting on the current status of invasion and the properties of alien species in East Asia.

Fungal Diseases

Methods and Protocols

Volume 2

ASSESSMENT AND CONTROL OF BIOLOGICAL
INVASION RISKS

Exploring Zoology: A Laboratory Guide

Medical Microbiology Illustrated

In most habitats, adaptations are the single most obvious aspects of an organism's

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phenotype. However, the most obvious feature of many subterranean animals are losses, not adaptations. Even Darwin saw subterranean animals as degenerates: examples of eyelessness and loss of structure in general. For him, the explanation was a straightforward Lamarckian one, and one that did not involve adaptation and the struggle of existence. This volume is a comprehensive account of all known species of subterranean fishes. It includes an extensive introduction, history of investigations, consideration of non-stygobitic fishes in caves, and detailed analysis of the

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conservation status of these very rare animals.

This update to the award-winning The Origins of Modern Humans: A World Survey of the Fossil Evidence covers the most accepted common theories concerning the emergence of modern Homosapiens—adding fresh insight from top young scholars on the key new discoveries of the past 25 years. The Origins of Modern Humans: Biology Reconsidered allows field leaders to discuss and assess the assemblage of hominid fossil material in each region of the world during the Pleistocene epoch. It features new fossil and molecular evidence,

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such as the evolutionary inferences drawn from assessments of modern humans and large segments of the Neandertal genome. It also addresses the impact of digital imagery and the more sophisticated morphometric that have entered the analytical fray since 1984.

*Beginning with a thoughtful introduction by the authors on modern human origins, the book offers such insightful chapter contributions as: Africa: The Cradle of Modern People
Crossroads of the Old World: Late Hominin
Evolution in Western Asia A River Runs through
It: Modern Human Origins in East Asia
Perspectives on the Origins of Modern*

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Humans: Biology Reconsidered is an ideal read for students, gradstudents, and professionals in human evolution and paleoanthropology.

Lab Manual B

Biodiversity, biogeography and nature conservation in Wallacea and New Guinea

Selected Entries from the Encyclopedia of Sustainability Science and Technology

A Collection of Educational Nature Bulletins

Kidney Development and Disease

Biology