

Biology Of Invertebrates Pechenik 5th Edition

Examines markings, feeding habits, and behavior
The Atlas of Marine Invertebrate Larvae is the most comprehensive guide to larval form and anatomy ever produced. Each chapter provides a referenced overview of life cycles, reproduction, embryology, larval life, larval form and metamorphosis in a particular group of invertebrates. More than 1200 drawings and photographs illustrate the gross anatomy of all known types of marine larvae and provide a visual survey of the range of larval diversity within each phylum. This book assembles the best larval photographs previously published in scientific literature into one place. Many of the plates, which include color photographs and numerous scanning electron micrographs, are original. Contributed chapters and illustrative material is covered by more than 50 recognized authorities on larval development from throughout the world. * Provides glossy photographs of all known types of marine invertebrate larvae in a single reference * Includes juvenile forms, paralarvae, etc. of several groups with direct development * Illustrates metamorphosis from larval to juvenile form for most groups * Provides brief synopses of life history biology, larval development, embryology, and metamorphosis * Provides key references to review articles and classic works
Written from an ecosystem perspective, this user-friendly and thorough book discusses, without the use of jargon, events that happen below the waterline of lakes, rivers,

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and wetlands and links them back to the attributers of the drainage basins, the overlying atmosphere and climate, which have a major impact on inland waters and their biota. It also contains a large number of easy-to-comprehend figures and tables that reinforce the written material and provide evidence for statements made. The focus on how fundamental limnology applies to environmental management and conservation shows readers that fundamental science can (and does) make a major contribution to solving environmental problems. Chapters 1 and 2 provide a background and history of limnology. Patterns are based on data and photos from all over the world. Emphasis placed on the role of drainage basins, the atmosphere, contaminants, weather and climate — in determining the function of aquatic systems. Chapters on acidifying precipitation, organic and trace metal contaminants, and reservoirs integrates the individual topics discussed in the different chapters by bringing it to bear on three major environmental issues. Emphasis on the importance of the spatial, temporal, and interval scales over which research is carried out and conclusions are drawn and the difficulty of “scaling up” findings. For further study by those with limnology or aquatic management and conservation For all introductory genetics courses A forward-looking exploration of essential genetics topics Known for its focus on conceptual understanding, problem solving, and practical applications, this bestseller strengthens problem-solving skills and explores the essential genetics topics that today’s students need to understand. The 9th Edition maintains the text’s brief,

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less-detailed coverage of core concepts and has been extensively updated with relevant, cutting-edge coverage of emerging topics in genetics. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you will receive via email the code and instructions on how to access this product. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed. Invertebrate Zoology: A Tree of Life Approach is a comprehensive and authoritative textbook adopting an explicitly phylogenetic organization. Most of the classical anatomical and morphological work has not been changed – it established the foundation of Invertebrate Zoology. With the explosion of Next-Generation Sequencing approaches, there has been a sea-change in the recognized phylogenetic relationships among and between invertebrate lineages. In addition, the merger of evolutionary and developmental biology (evo-devo) has dramatically contributed to changes in the understanding of invertebrate biology. Synthesizing these three approaches (classical morphology, sequencing data, and evo-devo studies) offers students an entirely unique perspective of invertebrate diversity. Key Features One of the first textbooks to combine classical morphological approaches and newer evo-devo and Next-Generation

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Sequencing approaches to address Invertebrate Zoology Organized along taxonomic lines in accord with the latest understanding of invertebrate phylogeny Will provide background in basic systematic analysis useful within any study of biodiversity A wealth of ancillary materials for students and teachers, including downloadable figures, lecture slides, web links, and phylogenetic data matrices

AAP Prose Award Finalist 2018/19 Management of Animal Care and Use Programs in Research, Education, and Testing, Second Edition is the extensively expanded revision of the popular Management of Laboratory Animal Care and Use Programs book published earlier this century. Following in the footsteps of the first edition, this revision serves as a first line management resource, providing for strong advocacy for advancing quality animal welfare and science worldwide, and continues as a valuable seminal reference for those engaged in all types of programs involving animal care and use. The new edition has more than doubled the number of chapters in the original volume to present a more comprehensive overview of the current breadth and depth of the field with applicability to an international audience. Readers are provided with the latest information and resource and reference material from authors who are noted experts in their field. The book: - Emphasizes the importance of developing a collaborative culture of care within an animal care and use program and provides information about how behavioral management through animal training can play an integral role in a veterinary health program - Provides a new

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section on Environment and Housing, containing chapters that focus on management considerations of housing and enrichment delineated by species - Expands coverage of regulatory oversight and compliance, assessment, and assurance issues and processes, including a greater discussion of globalization and harmonizing cultural and regulatory issues - Includes more in-depth treatment throughout the book of critical topics in program management, physical plant, animal health, and husbandry. Biomedical research using animals requires administrators and managers who are knowledgeable and highly skilled. They must adapt to the complexity of rapidly-changing technologies, balance research goals with a thorough understanding of regulatory requirements and guidelines, and know how to work with a multi-generational, multi-cultural workforce. This book is the ideal resource for these professionals. It also serves as an indispensable resource text for certification exams and credentialing boards for a multitude of professional societies Co-publishers on the second edition are: ACLAM (American College of Laboratory Animal Medicine); ECLAM (European College of Laboratory Animal Medicine); IACLAM (International Colleges of Laboratory Animal Medicine); JCLAM (Japanese College of Laboratory Animal Medicine); KCLAM (Korean College of Laboratory Animal Medicine); CALAS (Canadian Association of Laboratory Animal Medicine); LAMA (Laboratory Animal Management Association); and IAT (Institute of Animal Technology).

A concise, organized approach to the study of human

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parasites. Essentials of Human Parasitology is an up-to-date and comprehensive guide for the recognition and identification of common, clinically significant human parasites. Easy to read format contains concise, thorough descriptions for each parasite, relevant case studies, and photographs and diagrams to emphasize material. Proper specimen collection techniques and immunoassays for antigens and antibodies are also covered. (Key Words: parasite, parasitology, immunoassays, medical lab technician, protozoa, helminths)

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. Freshwater Ecology, Second Edition, is a broad, up-to-date treatment of everything from the basic chemical and physical properties of water to advanced unifying concepts of the community ecology and ecosystem relationships as found in continental waters. With 40% new and expanded coverage, this text covers applied and basic aspects of limnology, now with more emphasis on wetlands and reservoirs than in the previous edition. It

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features 80 new and updated figures, including a section of color plates, and 500 new and updated references. The authors take a synthetic approach to ecological problems, teaching students how to handle the challenges faced by contemporary aquatic scientists. This text is designed for undergraduate students taking courses in Freshwater Ecology and Limnology; and introductory graduate students taking courses in Freshwater Ecology and Limnology. Expanded revision of Dodds' successful text. New boxed sections provide more advanced material within the introductory, modular format of the first edition. Basic scientific concepts and environmental applications featured throughout. Added coverage of climate change, ecosystem function, hypertrophic habitats and secondary production. Expanded coverage of physical limnology, groundwater and wetland habitats. Expanded coverage of the toxic effects of pharmaceuticals and endocrine disrupters as freshwater pollutants More on aquatic invertebrates, with more images and pictures of a broader range of organisms Expanded coverage of the functional roles of filterer feeding, scraping, and shredding organisms, and a new section on omnivores. Expanded appendix on standard statistical techniques. Supporting website with figures and tables - <http://www.elsevierdirect.com/companion.jsp?ISBN=9780123747242>

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Biology of the Invertebrates McGraw-Hill Science, Engineering & Mathematics

This textbook is the most concise and readable invertebrates book in terms of detail and pedagogy (other texts do not offer boxed readings, a second color, end of chapter questions, or pronunciation guides). All phyla of invertebrates are covered (comprehensive) with an emphasis on unifying characteristics of each group.

Environmental Biology offers a fresh approach to the topic in demonstrating how biological principles are applied to solve environmental problems.

This new edition is the most readable invertebrate biology text you'll find. Respected author Jan Pechenik has designed Biology of the Invertebrates for one-quarter and one- semester courses. The text covers all phyla of invertebrates; emphasizes the unifying characteristics within each group; and prepares students to read and understand the primary research literature. All chapters in the third edition contain excellent reference sections that have been updated to reflect the latest information about physiology, systematics, and phylogenetic relationships. You'll also find material covering recent findings using molecular techniques. - Publisher.

An introductory overview of the functional biology of fish and how that may be affected by the contrasting habitat conditions within the aquatic environment. It

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describes the recent advances in comparative animal physiology which have greatly influenced our understanding of fish function as well as generating questions that have yet to be resolved. Fish taxa represent the largest number of vertebrates, with over 25,000 extant species. However, much of our knowledge, apart from taxonomy and habitat descriptions, has been based on relatively few of these species, usually those which live in fresh water and/or are of commercial interest. Unfortunately there has also been a tendency to base interpretation of fish physiology on that of mammalian systems, as well as to rely on a few type species of fish. This accessible textbook will redress the balance by using examples of fish from a wide range of species and habitats, emphasizing diversity as well as recognizing shared attributes with other vertebrates.

Animals Without Backbones has been considered a classic among biology textbooks since it was first published to great acclaim in 1938. It was the first biology textbook ever reviewed by Time and was also featured with illustrations in Life. Harvard, Stanford, the University of Chicago, and more than eighty other colleges and universities adopted it for use in courses. Since then, its clear explanations and ample illustrations have continued to introduce hundreds of thousands of students and general readers around the world to jellyfishes, corals, flatworms, squids, starfishes, spiders, grasshoppers, and the other invertebrates that make up

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ninety-seven percent of the animal kingdom. This new edition has been completely rewritten and redesigned, but it retains the same clarity and careful scholarship that have earned this book its continuing readership for half a century. It is even more lavishly illustrated than earlier editions, incorporating many new drawings and photographs. Informative, concise legends that form an integral part of the text accompany the illustrations. The text has been updated to include findings from recent research. Eschewing pure morphology, the authors use each group of animals to introduce one or more biological principles. In recent decades, courses and texts on invertebrate zoology at many universities have been available only for advanced biology majors specializing in this area. The Third Edition of *Animals Without Backbones* remains an ideal introduction to invertebrates for lower-level biology majors, nonmajors, students in paleontology and other related fields, junior college and advanced high school students, and the general reader who pursues the rewarding study of the natural world.

This book starts with a look at Singapore's wild past: its biogeography from before human occupation up to 19th century changes and finishes with a look at the possible future of wildlife in the country. In between, there are full details on the current flora and fauna to be found in and on Singapore's reefs and rocks, mangroves and mud, lowland and swamp forests, and parks and gardens. Written by three expert authors, *Wild Singapore* provides an authoritative and entertaining survey of the wide spectrum of wildlife on the land and in the seas of

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Singapore.

Invertebrate Medicine, Second Edition offers a thorough update to the most comprehensive book on invertebrate husbandry and veterinary care. Including pertinent biological data for invertebrate species, the book's emphasis is on providing state-of-the-art information on medicine and the clinical condition. Invertebrate Medicine, Second Edition is an invaluable guide to the medical care of both captive and wild invertebrate animals. Coverage includes sponges, jellyfish, anemones, corals, mollusks, starfish, sea urchins, crabs, crayfish, lobsters, shrimp, hermit crabs, spiders, scorpions, and many more, with chapters organized by taxonomy. New chapters provide information on reef systems, honeybees, butterfly houses, conservation, welfare, and sources of invertebrates and supplies. Invertebrate Medicine, Second Edition is an essential resource for veterinarians in zoo animal, exotic animal and laboratory animal medicine; public and private aquarists; and aquaculturists.

Polychaetes are very common marine worms belonging to the Annelid family that are of interest to marine biologists and invertebrate zoologists. The book presents an understanding of the biology of this group with many illustrations.

Widely regarded as the most captivating, accessible and comprehensive text for undergraduate marine biology courses, Marine Biology examines the subject from a unique global and evolutionary perspective. Written in clear, conversational style, this highly acclaimed volume emphasizes the principles and processes that underlie -

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and unify - vastly different marine communities.

NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value; this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products.

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critical thinking. Written by a prominent biologist, this best-selling guide teaches students to express ideas clearly and concisely. It emphasizes writing as a way of examining, evaluating, and refining ideas: students learn to read critically, study, evaluate and report data, and communicate with clarity. Using a narrative style, the text is its own example of good analytical writing. In this new edition, students learn how to avoid plagiarism (Ch 1 and 3), read and interpret data (Ch 3, 4 and 9), prepare effective Materials and Methods sections in research reports and more (Ch 9), and prepare manuscripts for submission (Ch 9). The text also provides advice on locating useful sources (Ch 2), maintaining laboratory and field notebooks (Ch 9), communicating with different audiences (Ch 6 and 10), and crafting research proposals (Ch 10), poster presentations (Ch 11), and letters of application (Ch 12). Also available with MyWritingLab(tm) This title is also available with MyWritingLab -- an online homework, tutorial, and assessment program that provides engaging experiences for teaching and learning. Flexible and easily customizable, MyWritingLab helps improve students' writing through context-based learning. Whether through self-study or instructor-led learning, MyWritingLab supports and complements course work. Physiological Systems in Insects discusses the roles of molecular biology, neuroendocrinology, biochemistry, and genetics in our understanding of insects. All chapters in the new edition are updated, with major revisions to those covering swiftly evolving areas like endocrine, developmental, behavioral, and nervous

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systems. The new edition includes the latest details from the literature on hormone receptors, behavioral genetics, insect genomics, neural integration, and much more. Organized according to insect physiological functions, this book is fully updated with the latest and foundational research that has influenced understanding of the patterns and processes of insects and is a valuable addition to the collection of any researcher or student working with insects. There are about 10 quintillion insects in the world divided into more than one million known species, and some scientists believe there may be more than 30 million species. As the largest living group on earth, insects can provide us with insight into adaptation, evolution, and survival. The internationally respected third edition of Marc Klowden's standard reference for entomologists and researchers and textbook for insect physiology courses provides the most comprehensive analysis of the systems that make insects important contributors to our environment. Third edition has been updated with new information in almost every chapter and new figures Includes an extensive up-to-date bibliography in each chapter Provides a glossary of common entomological and physiological terms Widely praised for its comprehensive coverage and exceptionally clear writing style, this text explores how the anatomy, physiology, ecology, and behaviour of animals interact to produce organisms that function effectively in their environments and how lineages of organisms change through evolutionary time.

More than seventy percent of the earth's surface is covered by ocean - the home to a staggering and sometimes overwhelming diversity of organisms, a majority of which

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reside in pelagic form. Marine invertebrate larvae are an integral part of this pelagic diversity and have stimulated the curiosity of researchers for centuries. This book will provide an important, modern update on the topic of larval ecology, representing the first major synthesis of this interdisciplinary field for more than 20 years. The content will be structured around four major areas: evolutionary origins and transitions in developmental mode; functional morphology and ecology of larval forms; larval transport, settlement, and metamorphosis; climate change and larval ecology at the extremes. This novel synthesis will integrate traditional larval ecology with life history theory, evolutionary developmental biology, and modern genomics research.

"A pleasant, chatty book on a fascinating subject." — Kirkus Reviews Octopuses have been captivating humans for as long as we have been catching them. Yet for all of our ancient fascination and modern research, we still have not been able to get a firm grasp on these enigmatic creatures. Katherine Harmon Courage dives into the mystifying underwater world of the octopus and reports on her research around the world. She reveals, for instance, that the oldest known octopus lived before the first dinosaurs; that two thirds of an octopus's brain capacity is spread throughout its arms, meaning each literally has a mind of its own; and that it can change colors within milliseconds to camouflage itself, yet appears to be colorblind.

"For each of 32 currently recognized phyla, Invertebrates, Third Edition presents detailed classifications, taxonomic synopses, updated information on general biology and anatomy, and current phylogenetic hypotheses. Chapters are organized around the "new animal phylogeny," along with basic background on invertebrates. Illustrated with abundant line drawings, color photos, boxes, and tables"--

Oceanography and Marine Biology preserves the basic

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elements of the physical, chemical, and geological aspects of the marine sciences, and merges those fundamentals into a broader framework of marine biology and ecology. I have found that this approach works: my class of 350 students fills every semester it is offered, with students on waiting lists to get in. But existing textbooks on oceanography or marine biology address the companion field only cursorily: very few pages in oceanography texts are devoted to marine biology, and vice versa. This new book overcomes that imbalance, bringing these disparate marine science text formats closer together, giving them more equal weight, and introducing more effectively the physical sciences by showing students with everyday examples how such concepts form the foundation upon which to build a better understanding of the marine environment in a changing world.

Appropriate for a laboratory course in invertebrate zoology. Invertebrate Zoology continues to be the most current, up-to-date manual available. The popular phylum- by-phylum approach has been retained, providing a solid conceptual framework for advanced work in behavior, ecology, physiology, and related subjects. Numerous exercises for studying the structure and function of invertebrates are used. To complete each exercise, students must make observations, conduct investigations, and ask and answer questions all of which helps them gain a comprehensive understanding of invertebrates.

Comprehensive and authoritative, The Wiley Handbook of Evolutionary Neuroscience unifies the diverse strands of an interdisciplinary field exploring the evolution of brains and cognition. A comprehensive reference that unifies the diverse interests and approaches associated with the neuroscientific study of brain evolution and the emergence of cognition Tackles some of the biggest questions in neuroscience including what brains are for, what factors constrain their

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biological development, and how they evolve and interact Provides a broad and balanced view of the subject, reviewing both vertebrate and invertebrate anatomy and emphasizing their shared origins and mechanisms Features contributions from highly respected scholars in their fields

During the last decades there has been an increasing evidence of drastic changes in marine ecosystems due to human-induced impacts, especially on benthic ecosystems. The so called “animal forests” are currently showing a dramatic loss of biomass and biodiversity all over the world. These communities are dominated by sessile suspension feeder organisms (such as sponges, corals, gorgonians, bivalves, etc.) that generate three-dimensional structures, similar to the trees in the terrestrial forest. The animal forest provide several ecosystem services such as food, protection and nursery to the associated fauna, playing an important role in the local hydrodynamic and biogeochemical cycles near the sea floor and acting also as carbon sinks. The present book focus its attention on these three dimensional animal structures including, for the first time, all the different types of animal forests of the world in a single volume.

This edition of 'Microbiology' provides a balanced, comprehensive introduction to all major areas of microbiology. The text is appropriate for students preparing for careers in medicine, dentistry, nursing and allied health, as well as research, teaching and industry.

This multi-author, six-volume work summarizes our current knowledge on the developmental biology of all major invertebrate animal phyla. The main aspects of cleavage, embryogenesis, organogenesis and gene expression are discussed in an evolutionary framework. Each chapter presents an in-depth yet concise overview of both classical and recent literature, supplemented by numerous color illustrations and micrographs of a given animal group. The

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largely taxon-based chapters are supplemented by essays on topical aspects relevant to modern-day EvoDevo research such as regeneration, embryos in the fossil record, homology in the age of genomics and the role of EvoDevo in the context of reconstructing evolutionary and phylogenetic scenarios. A list of open questions at the end of each chapter may serve as a source of inspiration for the next generation of EvoDevo scientists. *Evolutionary Developmental Biology of Invertebrates* is a must-have for any scientist, teacher or student interested in developmental and evolutionary biology as well as in general invertebrate zoology. This volume covers the animals that have a ciliated larva in their lifecycle (often grouped together as the Lophotrochozoa), as well as the Gnathifera and the Gastrotricha. The interrelationships of these taxa are poorly resolved and a broadly accepted, clade-defining autapomorphy has yet to be defined. Spiral cleavage is sometimes assumed to be the ancestral mode of cleavage of this grouping and therefore the clade is referred to as Spiralia by some authors, although others prefer to extend the term Lophotrochozoa to this entire assemblage. Aside from the taxon-based chapters, this volume includes a chapter that highlights similarities and differences in the processes that underlie regeneration and ontogeny, using the Platyhelminthes as a case study.

Planet Earth : rocks, life, and history -- The Earth's atmosphere -- Global warming and climate change -- Chemistry of the troposphere -- Chemistry of the stratosphere -- Analysis of air and air pollutants -- Water resources -- Water pollution and water treatment -- Analysis of water and wastewater -- Fossil fuels : our major source of energy -- Nuclear power -- Energy sources for the future -- Inorganic metals in the environment -- Organic chemicals in the environment -- Insecticides, herbicides, and insect control -- Toxicology -- Asbestos -- The disposal of dangerous wastes.

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A fully updated overview of the causation, function, development and evolution of cephalopod behaviour, richly illustrated in full colour.

The most up-to-date book on invertebrates, providing a new framework for understanding their place in the tree of life In *The Invertebrate Tree of Life*, Gonzalo Giribet and Gregory Edgecombe, leading authorities on invertebrate biology and paleontology, utilize phylogenetics to trace the evolution of animals from their origins in the Proterozoic to today.

Phylogenetic relationships between and within the major animal groups are based on the latest molecular analyses, which are increasingly genomic in scale and draw on the soundest methods of tree reconstruction. Giribet and Edgecombe evaluate the evolution of animal organ systems, exploring how current debates about phylogenetic relationships affect the ways in which aspects of invertebrate nervous systems, reproductive biology, and other key features are inferred to have developed. The authors review the systematics, natural history, anatomy, development, and fossil records of all major animal groups, employing seminal historical works and cutting-edge research in evolutionary developmental biology, genomics, and advanced imaging techniques. Overall, they provide a synthetic treatment of all animal phyla and discuss their relationships via an integrative approach to invertebrate systematics, anatomy, paleontology, and genomics. With numerous detailed illustrations and phylogenetic trees, *The Invertebrate Tree of Life* is a must-have reference for biologists and anyone interested in invertebrates, and will be an ideal text for courses in invertebrate biology. A must-have and up-to-date book on invertebrate biology Ideal as both a textbook and reference Suitable for courses in invertebrate biology Richly illustrated with black-and-white and color images and abundant tree diagrams Written by authorities on invertebrate evolution and

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phylogeny Factors in the latest understanding of animal genomics and original fossil material

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