

Systematics, Phylogenies & Comparative Biology

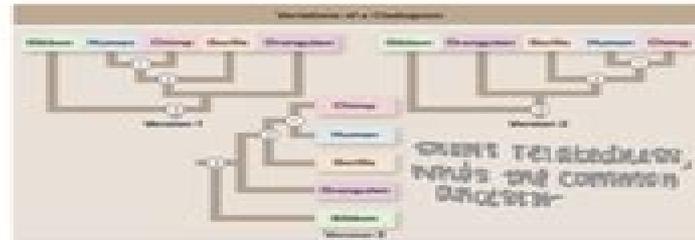
Systematics

All organisms share many characteristics

- Cells
- Metabolism
- ATP
- DNA

Branching Diagrams

- The closer 2 things are, the more similar they are
- Similarity does not necessarily predict evolutionary relationships
- Rates of evolution
 - ↳ ex: horseshoe crab survived 6 mass extinction events without evolving/ changing at all
- Evolution may not be unidirectional
- Evolution is not always divergent



All of the diagrams are the same, just different orientation

Convergent Evolution

Dolphin and shark are very different even though they look similar

Why?

- they evolved in the same environment
- in the water, it pays to be streamlined and have a muscular tail

Species	Piscatorial Mammals	Australian Marsupials	Marine Mammals
Shark			
Amphibian			
Shrew			
Crab			
Golden			
Cat			
Wolf			

Cladistics

→ use measurable traits

Ancestral characteristics (ex: hair type passed down)

- ↳ inherited from the most recent common ancestor of an entire group

Derived characteristics

- ↳ shared only by a subset of the group

[presence,]
[absent, 0]

Cladistic methods

Ancestral v. derived characters

Hair → derived (occurs due to environment)

Legs → ancestral (multiple groups have legs - mammals, insects, reptiles, etc.)

derived & ancestral are all context dependent
↳ depends what species you're talking about

ex: trait is inherited - ancestral or -plunged derived

Chapter 2 phylogeny And Systematics

Raoul Martin Anne Peter Haegens



Chapter 2phylogeny And Systematics:

Phylogenetic Relationships and Evolution of Morphology in Prunus L. (Rosaceae) Pedro Esteban Bortiri,2002

BIODIVERSITY MAITI, PRABODH K.,MAITI, PAULAMI,2023-04-13 Biodiversity refers to the variety and variability of organisms Diverse biota provide ecosystem service and goods on which the survival of man is dependent However world today is under tremendous threat of unprecedented loss of biodiversity due to widespread habitat fragmentation overexploitation and global climate change Consequently environmental issues like global warming pollution recurrent natural calamities and human population rise are of major concern to the conservationists The book in its third edition covers a complete range of topics from the concept of biodiversity its history importance of species diversity systematics present status of bioresources and pattern of distribution of global species to the genetic diversity and ecosystem diversity It also elaborates on various drivers that lead to biodiversity loss and the impact on global climate change on biota Moreover the topics on biopiracy environmental laws and policies and the importance of indigenous knowledge of indigenous communities are also described in the text The use of biotechnology based methods and various measures to preserve natural resources are highlighted in the text An all inclusive the book provides a detailed account of the conservation measures of biodiversity and proves to be the most comprehensive text encompassing both principles and applications of biodiversity The book is primarily designed for the undergraduate and postgraduate students of Environmental Science Zoology and Botany Besides it will also be of immense value to the students pursuing postgraduate diploma or other professional courses in Environmental Science and aspirants of various competitive examinations **NEW TO THE THIRD EDITION** Various sections are revised and updated throughout the book Includes detailed discussion on protected area sacred groves habitat fragmentation and its effect ecosystem functioning metapopulation invasive species and wildlife corridors Introduces the concept of ecological restoration and the system of Biodiversity Governance in India Provides a number of new and replaced figures for better illustration and understanding of the subject **KEY FEATURES** Explains the contemporary topics such as green accounting and sustainable management of natural resources in an easy to understand manner Incorporates a number of photographs flow charts diagrams and tables Provides chapter end review questions to help students check their understanding of the subject Includes MCQs with answers appended at the end of the book Gives an elaborate glossary of technical terms to acquaint the students with the related terminologies **TARGET AUDIENCE** B Sc Environmental Science Zoology and Botany M Sc Environmental Science Zoology and Botany PG Diploma in Biodiversity Conservation Environmental Science **Parrots of Africa, Madagascar and the Mascarene Islands** Laubscher, Mike Perrin,2012-12-01 A detailed examination of all aspects of parrots from behavior to their conservation Parrots colour and charisma coupled with the fact that they mimic human speech make them fascinating to many people They are ancient birds with unique bill and foot structures that enable them to forage on fruits in the canopy of forest trees as well as on seeds in grasslands Because they depend on fruits and

seeds all year round most species are confined to the tropics or sub tropics where the world s biodiversity is at its greatest There are over three hundred species of parrots of which more than one hundred are recognised as rare endangered vulnerable or threatened with extinction Parrots are largely distributed in tropical areas of developing countries where economies are weak and uncertain and where there is great dependence on the exploitation of natural resources particularly hard wood evergreen forests which are preferred parrot habitats Unfortunately high levels of corruption are common to these regions with much illegal trade in animals and little or no law enforcement Collectors of parrots in the first world pay huge sums for rare parrots However research education and conservation actions are greatly reducing illegal trade in African parrots This book provides complete coverage of all aspects of the biology of extant African Malagasy and Mascarene parrots and reviews our knowledge of extinct and fossil parrots from the region Particular themes include the behavioural and ecological characteristics of parrots their species characteristics and conservation biology Current concepts in avian and conservation biology are also discussed Parrots of Africa Madagascar and the Mascarene Islands is aimed at ornithologists conservation biologists avian ecologists academics bird watchers and parrot fans alike It is well illustrated with high quality original photographs and includes distribution maps figures and tables

Biology of the Three-Spined Stickleback Sara Ostlund-Nilsson,Ian Mayer,Felicity Anne Huntingford,2006-12-15 Highlighting the growing importance of the sticklebacks as a model species in emerging fields such as molecular genetics genomics and environmental toxicology *Biology of the Three Spined Stickleback* examines data from researchers who use studies of the stickleback to address a wide range of biological issues This state of the art volume

Molecular Phylogenetics and Evolutionary Ecology of Ips Bark Beetles (Scolytidae) Anthony Ignatius Cognato,1998

Cladistics David M. Williams,Malte C. Ebach,2020-08-06 This new edition of a foundational text presents a contemporary review of cladistics as applied to biological classification It provides a comprehensive account of the past fifty years of discussion on the relationship between classification phylogeny and evolution It covers cladistics in the era of molecular data detailing new advances and ideas that have emerged over the last twenty five years Written in an accessible style by internationally renowned authors in the field readers are straightforwardly guided through fundamental principles and terminology Simple worked examples and easy to understand diagrams also help readers navigate complex problems that have perplexed scientists for centuries This practical guide is an essential addition for advanced undergraduates postgraduates and researchers in taxonomy systematics comparative biology evolutionary biology and molecular biology

CliffsQuickReview Plant Biology Patricia J Rand,2001-01-24 CliffsQuickReview course guides cover the essentials of your toughest subjects Get a firm grip on core concepts and key material and test your newfound knowledge with review questions Whether you need a course supplement help preparing for a physics exam or a concise reference for biology CliffsQuickReview Plant Biology can help This guide provides a valuable introduction to the concepts of roots stems leaves flowers and fruit In no time you ll be ready to tackle other concepts in this book such as Cell

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Phylogenetic Studies in the Polypodiales (Pteridophyta) with an Emphasis of the Family Blechnaceae Raymond Benton Cranfill,2001 **Memoirs of the American Entomological Society** ,2005 [Student Study Guide for Biology](#)

[by] [Campbell/Reece](#) Martha R. Taylor,2002 Marty Taylor Cornell University Provides a concept map of each chapter chapter summaries a variety of interactive questions and chapter tests **PARASCRIP** Daniel R. Brooks,Deborah A.

McLennan,1993-02-17 Two themes recur in this guide to a language with rich potential for evolutionary studies One is the focus on the parasite rather than the more commonly studied host the second is the use of modern phylogenetic and historical ecological analysis showing the fruitfulness of such an approach The aim is to evaluate myths and misconceptions about parasites and their evolution and to demonstrate that parasite host systems are excellent models for evolutionary studies and for use as biodiversity probes Paper edition unseen 25 Annotation copyright by Book News Inc Portland OR

Taxonomy, Phylogeny, and Biogeography of Baccaurea, Distichirhops, and Nothobaccaurea (Euphorbiaceae) Raoul Martin Anne Peter Haegens,2000 Baccaurea is in numbers one of the most common undergrowth trees in the Malesian lowland forests It is an ecologically and economically important genus because of its edible fruits timber and medicinal usage Distichirhops and Nothobaccaurea are new to science and both are allied to Baccaurea A comprehensive revision is presented for all three genera with full taxonomic descriptions and distribution maps for all species and analytical drawings or full colour pictures for most of the 48 species treated General and regional identification keys are given A phylogenetic hypothesis based on macromorphological and leaf anatomical characters is presented for Baccaurea and Nothobaccaurea as well as the character evolution within these genera To reveal hidden internal branch support a new method called Iterative Taxon Reduction is used The biogeographic analyses based on six different methods led to a general dispersal vicariance scenario for Baccaurea and allied genera in which an old Gondwanan distribution pattern is shown followed by different

routes into Southeast Asia American Journal of Botany ,2001 **Biology** Neil A. Campbell,Jane B. Reece,2005 Neil Campbell and Jane Reece s BIOLOGY remains unsurpassed as the most successful majors biology textbook in the world This text has invited more than 4 million students into the study of this dynamic and essential discipline The authors have restructured each chapter around a conceptual framework of five or six big ideas An Overview draws students in and sets the stage for the rest of the chapter each numbered Concept Head announces the beginning of a new concept and Concept Check questions at the end of each chapter encourage students to assess their mastery of a given concept New Inquiry Figures focus students on the experimental process and new Research Method Figures illustrate important techniques in biology Each chapter ends with a Scientific Inquiry Question that asks students to apply scientific investigation skills to the content of the chapter **Mammal Phylogeny: Placentals** Frederick S. Szalay,Michael J. Novacek,Malcolm C. McKenna,1993 *Biology of the Invertebrates* Jan Pechenik,2014-02-11 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

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