

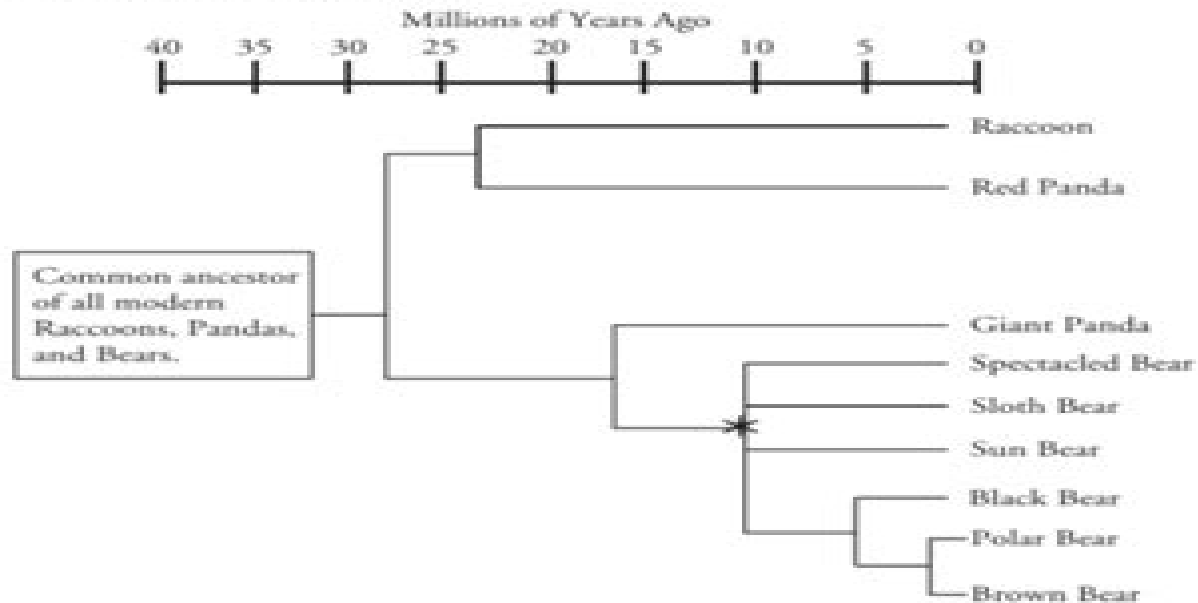
## Phylogenetic Trees

How do the changes in gene sequences allow us to reconstruct the evolutionary relationships between related species?

### Why?

The saying "Don't judge a book by its cover." could be applied to the topic of evolution. For example, humans share 75% of their DNA with chickens. Biologists point to this as evidence that humans and chickens once shared a common ancestor. The advent of DNA technology has given scientists the tools with which to examine how closely related certain species are. DNA analysis allows scientists to construct phylogenetic trees whose branches link together the relatedness of different organisms.

### Model 1 – Phylogenetic Trees



1. Refer to Model 1.
  - a. How long ago did the common ancestor of all the organisms on this phylogenetic tree exist?
  - b. Which two lines diverged 30 million years ago?
  - c. List all modern descendants of the organism that was alive at the point indicated by the asterisk.

# Model 1 Phylogenetic Trees Answer Key

**Mr. Rohit Manglik**



## **Model 1 Phylogenetic Trees Answer Key:**

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**Emerging Applications of Algebraic Geometry** Mihai Putinar, Seth Sullivant, 2008-12-10 Recent advances in both the theory and implementation of computational algebraic geometry have led to new striking applications to a variety of fields of research The articles in this volume highlight a range of these applications and provide introductory material for topics covered in the IMA workshops on Optimization and Control and Applications in Biology Dynamics and Statistics held during the IMA year on Applications of Algebraic Geometry The articles related to optimization and control focus on burgeoning use of semidefinite programming and moment matrix techniques in computational real algebraic geometry The new direction towards a systematic study of non commutative real algebraic geometry is well represented in the volume Other articles provide an overview of the way computational algebra is useful for analysis of contingency tables reconstruction of phylogenetic trees and in systems biology The contributions collected in this volume are accessible to non experts self contained and informative they quickly move towards cutting edge research in these areas and provide a wealth of open problems for future research

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*Sustainability and Evolution, or why life becomes increasingly complex: The Interaction Theory* Michael J. Ruf, 2018-12-14 Thanks to new improving experimental techniques modern biology is discovering a steadily growing body of new facts and data about the living nature A good example of this advancement is the decryption of the complete genome of a rapidly increasing number of organisms including humans Regardless of these impressive results however there are still no satisfying answers to very basic questions of biology such as What is life and Why does matter organize into biological forms that become more complex in the course of evolution The Interaction Theory by Michael J Ruf assumes that this unsatisfying situation is not simply the consequence that certain experimental data are still missing The lack of explanation of what life is actually and why simple molecules evolve into complex organisms rather reflects an existing conceptual problem that can only be solved with a radically new conceptual

approach Interaction Theory is the result of such a radically new approach to life and evolution In contrast to conventional evolutionary theory the generation sequences of living forms are considered to be the decisive quality of life By clarifying how the continuation of these generation sequences can be sustainable over billions of years new fundamental principles become obvious and the phenomenon of an increasing biological complexity understandable As a result a law like process of biological complexity increase can be derived as immanent part of the evolution of life This allows Interaction Theory to provide new answers to key questions such as why sexual reproduction what species are and what life is The theory is however not limited to cells and organisms and their evolution It addresses the self organization to higher complexity of all kinds of structures that are subject to an evolution through multiplication processes This means that Interaction Theory also provides an understanding of why and how molecular networks social communities and even societies become more complex over time

**Examining Evolutionary Trends in Equus and its Close Relatives from Five Continents** Raymond Louis Bernor, Gina Marie Semprebon, Florent Rivals, Leonardo Santos Avilla, Eric Scott, 2020-03-12 Evolution of the horse has been an often cited primary example of evolution as well as one of the classic and important stories in paleontology for over a century and a half due to their rich fossil record across 5 continents North America South America Europe Asia and Africa The recent horse has served a profound role in human ancestry including agriculture commerce sport transport warfare and in prehistory for the subsistence of humans Many studies have examined the evolution of the Equidae and chronicled the striking changes in skulls dentition limbs and body size which have long been perceived to be a response to environmental shifts through time Most comprehensive studies heretofore have 1 focused on the Great Transformation changes that occurred in the early Miocene 2 involved tracking long term diversity or paleoecological trends on a single continent or within a geographical locality or 3 concentrated on the 3 toed hipparions The Plio Pleistocene evolutionary stage of horse evolution is punctuated by the great climatic fluctuations of the Quaternary beginning 2.6 Ma which influenced Equus evolution biogeographic dispersion and adaptation on a nearly global scale The evolutionary biology of Equus evolution across its entire range remains relatively poorly understood and often highly controversial Some of this lack of understanding is due to assumptions that have arisen because of the relatively derived craniodental and postcranial anatomy of Equus and its close relatives which has seemed to imply that that these forms occupied relatively homogenous and narrow dietary and locomotor niches notions that have not been adequately addressed and rigorously tested Other challenges have revolved around teasing apart environmentally driven adaptation versus phylogenetically defined morphological change Geochronologic age control of localities geographic provinces and continents has improved but in no way is absolute and can be reexamined in our proposed volume Temporal resolution for paleodietary paleohabitat and paleoecological interpretations are also challenging for understanding the evolution of Equus Our proposed volume attempts to assemble a group of experts who will address multiple dimensions of Equus evolution in time and space

*Resources for Teaching Middle School*

*Science* Smithsonian Institution, National Academy of Engineering, National Science Resources Center of the National Academy of Sciences, Institute of Medicine, 1998-03-30 With age appropriate inquiry centered curriculum materials and sound teaching practices middle school science can capture the interest and energy of adolescent students and expand their understanding of the world around them Resources for Teaching Middle School Science developed by the National Science Resources Center NSRC is a valuable tool for identifying and selecting effective science curriculum materials that will engage students in grades 6 through 8 The volume describes more than 400 curriculum titles that are aligned with the National Science Education Standards This completely new guide follows on the success of Resources for Teaching Elementary School Science the first in the NSRC series of annotated guides to hands on inquiry centered curriculum materials and other resources for science teachers The curriculum materials in the new guide are grouped in five chapters by scientific area Physical Science Life Science Environmental Science Earth and Space Science and Multidisciplinary and Applied Science They are also grouped by type core materials supplementary units and science activity books Each annotation of curriculum material includes a recommended grade level a description of the activities involved and of what students can be expected to learn a list of accompanying materials a reading level and ordering information The curriculum materials included in this book were selected by panels of teachers and scientists using evaluation criteria developed for the guide The criteria reflect and incorporate goals and principles of the National Science Education Standards The annotations designate the specific content standards on which these curriculum pieces focus In addition to the curriculum chapters the guide contains six chapters of diverse resources that are directly relevant to middle school science Among these is a chapter on educational software and multimedia programs chapters on books about science and teaching directories and guides to science trade books and periodicals for teachers and students Another section features institutional resources One chapter lists about 600 science centers museums and zoos where teachers can take middle school students for interactive science experiences Another chapter describes nearly 140 professional associations and U S government agencies that offer resources and assistance Authoritative extensive and thoroughly indexed and the only guide of its kind Resources for Teaching Middle School Science will be the most used book on the shelf for science teachers school administrators teacher trainers science curriculum specialists advocates of hands on science teaching and concerned parents

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Marlink, Sheila D. Tlou, 2007-05-08 This comprehensive reference book addresses the unique challenges facing many African nations as poor infrastructure and economics continue to obstruct access to advanced treatments and AIDS care training It takes into account the context of settings with limited resources Information on how to best utilize existing resources and prioritize scaling up of infrastructure is a critical aspect of this book for those working in HIV AIDS related fields in Africa

**Campbell Biology Australian and New Zealand Edition** Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the only biology text and media product that helps students to make connections across different core topics in biology between text and visuals between global and Australian New Zealand biology and from scientific study to the real world The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative superior pedagogy and innovative use of art and photos to promote student learning It continues to engage students with its dynamic coverage of the essential elements of this critical discipline This Tenth Edition with an increased focus on evolution ensures students receive the most up to date accurate and relevant information     *Exploring Bioinformatics* Caroline St.

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**The Reed Warblers** Bernd Leisler, Karl Schulze-Hagen, 2015-03-10 To the untrained eye all reed warblers may look alike Anyone who takes a closer look will quickly realize that there is in fact an amazing spectrum of different ecological and adaptive strategies across the world's 53 species Members of the reed warbler family have been models for this diversity in a large number of biological studies of avian lifestyles Many of these have resulted in outstanding findings and set new standards in behavioural and evolutionary ecology The authors rise to the challenge of determining how the members of the family have diversified by comparing their relationships and ecologies This comparative approach runs like a thread throughout this book and touches on almost all biological aspects ranging from habitat use competition and communication to reproduction and brood parasitism mating systems migration population dynamics island life and convergent evolution The life strategies of these little brown jobs exemplify some of the key topics in 21st century ornithology Winner of the BB BTO Best Bird Book of the Year 2012 award the members of the reed warbler family display an astonishing diversity in ecology and life strategies and have been used extensively as models in research this integrative overview combines published and unpublished information and is richly illustrated with large numbers of photographs drawings and maps a fascinating read for bird watchers and bird researchers alike In cooperation with Max Planck Institute for Ornithology

Microbe Michele S. Swanson, Gemma Reguera, Moselio Schaechter, Frederick C. Neidhardt, 2016-06-01 Brings the excitement breadth and power of the modern microbial sciences to the next generation of students and scientists This new edition of Microbe is an eloquent and highly readable introduction to microbiology that will engage and excite science majors and pre health professionals The authors all prominent scientists have carefully crafted this lively narrative to bring key microbiology concepts to life and promote a lifelong passion for the microbial sciences Far more than a comprehensive reference book Microbe is replete with case studies ranging from sauerkraut fermentation to the cholera outbreak in Haiti that illustrate the impact of key microbiology concepts on real world scenarios To further engage students and deepen their understanding of both the principles and practice of science each chapter includes multiple active learning exercises that encourage students to demonstrate their understanding and

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