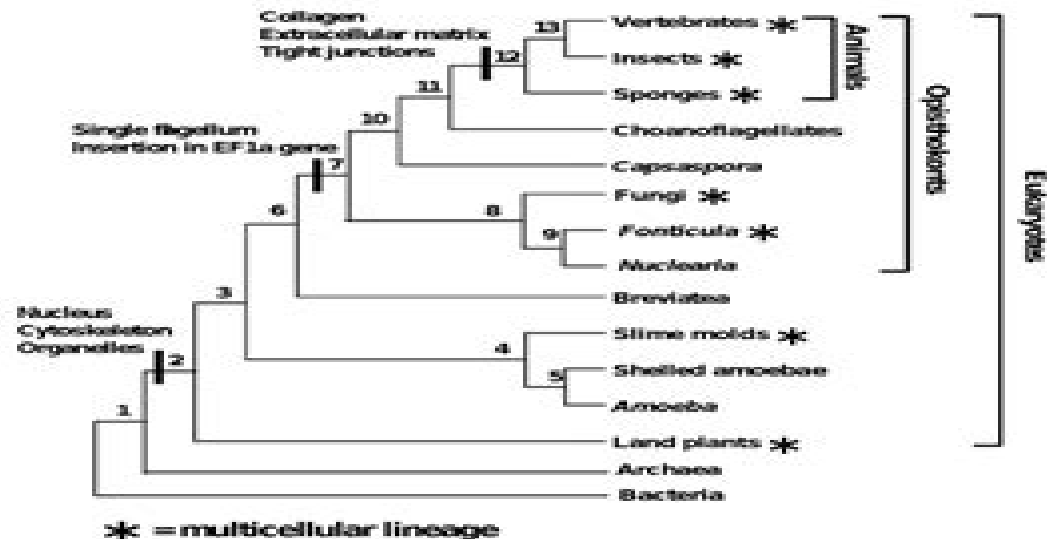


Worksheet 6

TOPIC: READING PHYLOGENETICS TREES

1. Consider the phylogenetic tree shown below. **Nodes** are labeled with numbers (1 – 13) above each node. You can refer to monophyletic groups (clades) by their ancestral nodes in your answers.



- a) Is the group composed only of Fungi and *Forams* monophyletic? Justify your answer.

No. A monophyletic group is defined as a group of the groups/species, their most recent common ancestors, and the descendants of this ancestors. A monophyletic group would be Fungi, Forams, their recent ancestor (8), and Nuclearia (the ancestor's descendant).

- b) Identify a monophyletic group of your choice that includes choanoflagellates. List all of the members of this group and the node of the common ancestor.

The node of the common ancestor of choanoflagellates would be 11 and would include the descendant vertebrates, insects, sponges, and choanoflagellates in the monophyletic group.

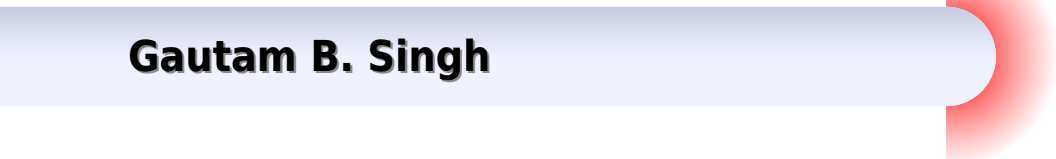
- c) Which node represents the most recent common ancestor of land plants and animals?

Node 2.

- d) Assume that multicellularity can be gained but not lost.

Biology Phylogenetic Tree Exercise Answers

Gautam B. Singh



Biology Phylogenetic Tree Exercise Answers:

College Biology Learning Exercises & Answers Textbook Equity, 2014-08-22 This textbook is designed as a quick reference for College Biology volumes one through three It contains each Chapter Summary Art Connection Review and Critical Thinking Exercises found in each of the three volumes It also contains the COMPLETE alphabetical listing of the key terms black white version College Biology intended for capable college students is adapted from OpenStax College's open CC BY textbook Biology It is Textbook Equity's derivative to ensure continued free and open access and to provide low cost print formats For manageability and economy Textbook Equity created three volumes from the original that closely match typical semester or quarter biology curriculum No academic content was changed from the original See textbookequity.org/tbq_biology This supplement covers all 47 chapters

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Bioinformatics Challenges at the Interface of Biology and Computer Science Teresa K. Attwood, Stephen R. Pettifer, David Thorne, 2016-09-26 This innovative book provides a completely fresh exploration of bioinformatics investigating its complex interrelationship with biology and computer science It approaches bioinformatics from a unique perspective highlighting interdisciplinary gaps that often trap the unwary The book considers how the need for biological databases drove the evolution of bioinformatics it reviews bioinformatics basics including database formats data types and current analysis methods and examines key topics in computer science including data structures identifiers and algorithms reflecting on their use and abuse in bioinformatics Bringing these disciplines together this book is an essential read for those who wish to better understand the challenges for bioinformatics at the interface of biology and computer science and how to bridge the gaps It will be an invaluable resource for advanced undergraduate and postgraduate students and for lecturers researchers and professionals with an interest in this fascinating fast moving discipline and the knotty problems that surround it

Bio-Inspired Computing for Information Retrieval Applications Acharjya, D.P., Mitra, Anirban, 2017-02-14 The growing presence of biologically inspired processing has caused significant changes in data retrieval With the ubiquity of these technologies more effective and streamlined data processing techniques are available Bio Inspired Computing for Information Retrieval Applications is a key resource on the latest advances and research regarding current techniques that have evolved from biologically inspired processes and its application to a variety of problems Highlighting multidisciplinary studies on data processing swarm based clustering and evolutionary computation this publication is an ideal reference source for researchers academics professionals students and practitioners

Bio-Inspired Artificial Intelligence Dario Floreano, Claudio Mattiussi, 2023-04-04 A comprehensive introduction to new approaches in artificial intelligence and robotics that are inspired by self organizing biological processes and structures New approaches to artificial intelligence spring from the idea that intelligence emerges as much from cells bodies and societies as it does from evolution

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Problems and Solutions in Biological Sequence Analysis Mark Borodovsky, Svetlana Ekisheva, 2006-09-04 This book is the first of its kind to provide a large collection of bioinformatics problems with accompanying solutions Notably the problem set includes all of the problems offered in Biological Sequence Analysis by Durbin et al Cambridge 1998 widely adopted as a required text for bioinformatics courses at leading universities worldwide Although many of the problems included in Biological Sequence Analysis as exercises for its readers have been repeatedly used for homework and tests no detailed solutions for the problems were available Bioinformatics instructors had therefore frequently expressed a need for fully worked solutions and a larger set of problems for use on courses This book provides just that following the same structure as Biological Sequence Analysis and significantly extending the set of workable problems it will facilitate a better understanding of the contents of the chapters in BSA and will help its readers develop problem solving skills that are vitally important for conducting successful research in the growing field of bioinformatics All of the material has been class tested by the authors at Georgia Tech where the first ever MSc degree program in Bioinformatics was held

Bioinformatics and Computational Biology Mr. Rohit Manglik, 2023-06-23 In this book we will study about bioinformatics and computational biology to understand its practical applications and theoretical foundations across scientific and engineering disciplines

Agents and Goals in Evolution Samir Okasha, 2018-06-12 Samir Okasha approaches evolutionary biology from a philosophical perspective in Agents and Goals in Evolution analysing a mode of thinking in biology called agential thinking He considers how the paradigm case involves treating an evolved organism as if it were an agent pursuing a goal such as survival or reproduction and seeing its phenotypic traits as strategies for achieving that goal or furthering its biological interests As agential thinking deliberately transposes a set of concepts goals interests strategies from rational human agents and to the biological world more generally Okasha s enquiry firstly looks at the justification for this is it mere anthropomorphism or does it play a genuine intellectual role in the science From this central question key points are considered such as how do we identify the goal that evolved organisms will behave as if they are trying to achieve Can agential thinking ever be applied to groups rather than to individual organisms And how does agential thinking relate to the controversies over fitness maximization in evolutionary biology In addition Okasha examines the relation between the adaptive and the rational by considering whether organisms can validly be treated as agent like Should we expect their evolved behaviour to correspond with that of rational agents as codified in the theory of rational choice If so does this mean that the fitness maximizing paradigm of the evolutionary biologist can be mapped directly to the utility maximizing paradigm of the rational choice theorist All of these important questions are engagingly raised and discussed at length

Practice Makes Perfect: Biology Review and Workbook, Third Edition Nichole Vivion, 2023-01-13 Succeed in Biology with Practice

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ADAPTIVE INTELLIGENCE: EVOLUTIONARY COMPUTATION FOR NEXTGEN AI Saurabh Pahune, Kolluri Venkateswaranaidu, Dr. Sumeet Mathur, 2025-01-25 The book is about use of Generative AI in Evolutionary Computation and has the potential for positive impact and global implications in Adaptive control systems ACS are complicated and might have trouble keeping up with fast changes but they improve performance by responding to input and system changes in realtime which has benefits including automated adjustment and cost savings Neural networks have great promise for improving AI capabilities and efficiency they analyze input through interconnected nodes to accomplish tasks like voice and picture recognition replicating the human brain

Algorithms on Strings, Trees, and Sequences Dan Gusfield, 1997-05-28 String algorithms are a traditional area of study in computer science In recent years their importance has grown dramatically with the huge increase of electronically stored text and of molecular sequence data DNA or protein sequences produced by various genome projects This book is a general text on computer algorithms for string processing In addition to pure computer science the book contains extensive discussions on biological problems that are cast as string problems and on methods developed to solve them It emphasises the fundamental ideas and techniques central to today s applications New approaches to this complex material simplify methods that up to now have been for the specialist alone With over 400 exercises to reinforce the material and develop additional topics the book is suitable as a text for graduate or advanced undergraduate students in computer science computational biology or bioinformatics Its discussion of current algorithms and techniques also makes it a reference for professionals

Fundamentals of Bioinformatics and Computational Biology Gautam B. Singh, 2025-03-24 This book comprehensively covers all the core bioinformatics topics and includes practical examples completed using the MATLAB bioinformatics and machine learning toolboxes™ It is primarily intended as a textbook for engineering and computer science students attending advanced

undergraduate and graduate courses in bioinformatics and computational biology The book develops bioinformatics concepts from the ground up starting with an introductory chapter on molecular biology and genetics to enable physical science students to appreciate the challenges in biological data management sequence analysis and systems biology The book is divided into five parts The first one includes a survey of existing biological databases and tools that have become essential in today s biotechnology research The second part covers methodologies for retrieving biological information including fundamental algorithms for sequence comparison scoring and determining evolutionary distance The third part of the book focuses on modeling biological sequences and patterns as Markov chains covering core principles for analyzing and searching for sequences of significant motifs and biomarkers and developing stochastic ergodic hidden Markov models for biological sequence families The fourth one is dedicated to systems biology and covers phylogenetic analysis and evolutionary tree computations as well as gene expression analysis with microarrays In turn the last part of the book includes an introduction to machine learning algorithms for bioinformatics and outlines strategies for developing intelligent diagnostic machine learning applications RNA sequence data and deep learning systems for mass spectrometry data All in all this book offers a unique hands on reference guide to bioinformatics and computational biology This second edition has been updated to cover additional and most recent databases and machine learning and deep learning applications in RNA sequence and mass spectrometry data analysis Moreover it presents significant enhancements to the chapter dedicated to microarray analysis and more practical examples with additional end of chapter problems

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