

AP Biology Phylogeny and Systematics Activity

Use chapter 25 and the following websites to answer these questions.

1. A tutorial that can be used as a resource on evolution and the origin of life (sections 1 and 2) is found at the following link: http://evolution.berkeley.edu/evolibrary/article/0_0_0/evo_toc_01
2. Quickly define the following terms: using the website or your book notes.

Convergent Evolution

Derived Characteristic

Outgroup

Cladistics

Cladogram

Clade

Principle of Parsimony

Homoplasy

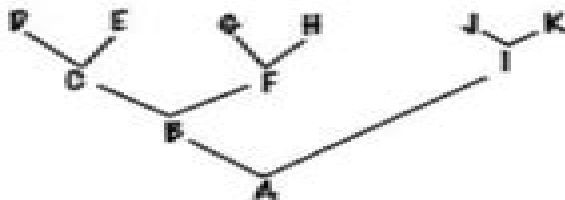
Molecular Clock

Monophyletic

Paraphyletic

Polyphyletic

3. Using the following diagram differentiate label the following: monophyletic group, paraphyletic group, polyphyletic group, derived characteristic, and first outgroup.



Ap Chapter 2phylogeny And Systematics Answers

Vicki Ann Funk



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Genome Clustering Alexander Bolshoy,Zeev Volkovich,Valery Kirzhner,Zeev Barzily,2010-05-19 Knighting in sequence biology Edward N Trifonov Genome classification construction of phylogenetic trees became today a major approach in studying evolutionary relatedness of various species in their vast versity Although the modern genome clustering delivers the trees which are very similar to those generated by classical means and basic terminology is the same the phenotypic traits and habitats are not anymore the playground for the classification The sequence space is the playground now The phenotypic traits are placed by sequence characteristics words in particular Matter of factually the phenotype and genotype merged to confusion of both classical and modern phylogeneticists Accordingly a completely new vocabulary of stringology information theory and applied mathematics took over And a new brand of scientists emerged those who do know the math and simultaneously do know biology The book is written by the authors of this new brand There is no way to test their literacy in biology as no biologist by training would even try to enter into the elite circle of those who masters their almost occult language But the army of formalicians formal linguists mathematicians humbly or aggressively longing to join modern biology got an excellent introduction to the field of genome clustering written by the team of their kin **Legume Crop**

Genomics Richard F. Wilson,2019-07-26 Demonstrating the quantum leap genomics represents in technology this book documents the initial research strategies the development of genomic tools and resources and the legume community consensus on the research objectives that will guide the genomic characterization of major legume crops The book presents this technical theme in a manner that helps readers answer the question What is genomics And finally this book helps readers formulate an opinion on the question Why is genomic research needed The application of this technology in legume crop enhancement will ensure that U S agriculture remains competitive in domestic and global markets for legumes and legume crop products **Systematic Zoology** ,1955 **Systematics, Evolution, and Biogeography of Compositae**

Vicki Ann Funk,2009 This spectacular book does full justice to the Compositae Asteraceae the largest and most successful flowering plant family with some 1700 genera and 24 000 species It is an indispensable reference providing the most up to date hypotheses of phylogenetic relationships in the family based on molecular and morphological characters along with the corresponding subfamilial and tribal classification The 2009 work not only integrates the extensive molecular phylogenetic analyses conducted in the last 25 years but also uses these to produce a metatree for about 900 taxa of Compositae The book contains 44 chapters contributed by 80 authors covering the history economic importance character variation and systematic and phylogenetic diversity of the family The emphasis of this work is phylogenetic its chapters provide a detailed current and thoroughly documented presentation of the major and not so major clades in the family citing some 2632 references Like the Compositae the book is massive diverse and fascinating It is beautifully illustrated with 170 figures and an additional 108 cladograms all consistently color coded based on the geographic range of the included taxa within these figures are displayed

443 color photographs clearly demonstrating the amazing array of floral and vegetative form expressed by members of the clade Resumen del editor **The Asian Vigna** Norihiko Tomooka,D. Vaughan,Helen Moss,Nigel Maxted,2012-12-06 The Asian beans and grams the species of Vigna subgenus Ceratotropis include several legumes that are an essential component in the diets of a large proportion of Asia s population and interest in these legumes is growing as ethnic cuisine spreads worldwide However this important group of legumes is little known compared to the closely related Phaseolus beans and soybean That deficiency is addressed for the first time in this fully illustrated comprehensive conservation genetics taxonomic and agricultural monograph on the genetic resources of the Asian Vigna The book deals with the phylogeny of the group from the perspectives of morphological and molecular analyses ex situ and in situ conservation eco geographical analyses and research In addition morphological descriptions keys and eco geographic details of each species in the group are provided This genetic resources handbook and guide to the Asian Vigna will be a valuable reference for agriculturists conservationists taxonomists other scientists and students interested in the legumes and plant genetic resources **College Biology I** James Hall Zimmerman,Sophie E. Merritt,1963 Objective Biology Chapter-wise MCQs for NTA NEET/ AIIMS 3rd Edition Disha Experts,2019-01-30 The thoroughly Revised Toughnut Tricky The book contains Chapter wise MCQs which covers all the important concepts and applications required to crack the mentioned exams The book contains 38 chapters covering a total of around 3800 MCQs with solutions The solutions to the questions is provided immediately after the chapter The solutions have been prepared in a manner that a student can easily understand them This is an ideal book to practice and revise the complete syllabus of the mentioned exams The book will help to give finishing touches to your preparation of each chapter **Current Science** ,1961 Contemporary Plant Systematics Dennis W. Woodland,2000 It has been written to teach basic botanical facts as applied to vascular plants relates these facts to systematic principles shows how systematic principles are important to contemporary botanical and environmental issues from a global perspective and allows the student access to computer botanical images Andrews University Press Copeia ,1988

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