

diversity phylogeny and evolution pdf

A phylogenetic tree or evolutionary tree is a branching diagram or "tree" showing the evolutionary relationships among various biological species or other entities—their phylogeny—based upon similarities and differences in their physical or genetic characteristics. All life on Earth is part of a single phylogenetic tree, indicating common ancestry.

Phylogenetic tree - Wikipedia

The theory of recapitulation, also called the biogenetic law or embryological parallelism—often expressed using Ernst Haeckel's phrase "ontogeny recapitulates phylogeny"—is a historical hypothesis that the development of the embryo of an animal, from fertilization to gestation or hatching, goes through stages resembling or representing successive stages in the evolution of the animal's ...

Recapitulation theory - Wikipedia

We have updated the Lizard Evolution Virtual Lab based on feedback from field testers (over 50 classrooms!). The virtual lab includes four modules that investigate different concepts in evolutionary biology, including adaptation, convergent evolution, phylogenetic analysis, reproductive isolation, and speciation.

Lizard Evolution Virtual Lab | HHMI BioInteractive

1 5/6/02 Frank Olken - PGA Phylogeny Tutorial 1 Phylogenetic Tree Computation Tutorial Frank Olken Lawrence Berkeley National Lab Presentation to PGA Course

Phylogenetic Tree Computation Tutorial

Labs. Do the American Field Guide's "English Ivy-Landscape Plant or Deadly Killer" activity. It includes a "Restoring Wildlife Habitat" video that can be played using Real Player or the Window's Media Player. The whole activity is in form and I have produced my own documents for the lab, the lab answers, the maps, the grid, and pictures of the invasive plants.

Diversity of Life - Awesome Science Teacher Resources

Labs. Simulate natural selection with the "Candy Dish Selection" lab. Introduce the Hardy-Weinberg principle of gene frequency equilibrium with this "Breeding Bunnies" lab. This includes a data sheet (in pdf format), discussion questions (pdf), and a student page.

Evolution - Awesome Science Teacher Resources

Misconceptions about evolutionary theory and processes. MISCONCEPTION: Evolution is a theory about the origin of life. CORRECTION: Evolutionary theory does encompass ideas and evidence regarding life's origins (e.g., whether or not it happened near a deep-sea vent, which organic molecules came first, etc.), but this is not the central focus of evolutionary theory.

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