

Evidence of Evolution Lab (Lab 38)

Background

Much evidence has been found to indicate that living things have evolved or changed gradually during their natural history. The study of fossils as well as work in embryology, biochemistry and comparative anatomy provides evidence for evolution.

Objective

In this lab you will learn about homologous, analogous and vestigial structures and their significance in evolution theory. You will also compare amino acid sequencing of humans to other vertebrates.

Materials

Colored pencils

Procedures and Observations

Part I. HOMOLOGOUS STRUCTURES

1. Carefully examine the drawings of the bones shown in Figures 1 on the next page. Look for similarities among the various animals.
 - a. Color each part of the human arm a different color. (All bones of the wrist should be a single color, the bone groups of the hand should be a different single color.) Then color the corresponding bone in each of the other animals the same color as the human bone.
 - b. Describe the function of each set of bones below:

Table 1

Animal	Function
human	
whale	
cat	
bat	
bird	
crocodile	

- c. Are the bones arranged in a similar way in each animal?
-

These structures are formed in similar ways during embryonic development and share like arrangements; however, they have somewhat different forms and functions. They are called *homologous structures*.

Evidence Of Evolution Lab 38

**Academy of Natural Sciences of
Philadelphia**



Evidence Of Evolution Lab 38:

Forensics in Chemistry Sara McCubbins, Angela Codron, 2012 Forensics seems to have the unique ability to maintain student interest and promote content learning I still have students approach me from past years and ask about the forensics case and specific characters from the story I have never had a student come back to me and comment on that unit with the multiple choice test at the end from the Introduction to Forensics in Chemistry The Murder of Kirsten K How did Kirsten K's body wind up at the bottom of a lake and what do wedding cake ingredients soil samples radioactive decay bone age blood stains bullet matching and drug lab evidence reveal about whodunit These mysteries are at the core of this teacher resource book which meets the unique needs of high school chemistry classes in a highly memorable way The book makes forensic evidence the foundation of a series of eight hands on week long labs As you weave the labs throughout the year and students solve the case the narrative provides vivid lessons in why chemistry concepts are relevant and how they connect All chapters include case information specific to each performance assessment and highlight the related national standards and chemistry content Chapters provide Teacher guides to help you set up Student performance assessments A suspect file to introduce the characters and new information about their relationships to the case Samples of student work that has been previously assessed and that serves as an answer key for you Grading rubrics Using *Forensics in Chemistry* as your guide you will gain the confidence to use inquiry based strategies and performance based assessments with a complex chemistry curriculum Your students may gain an interest in chemistry that rivals their fascination with *Bones* and *CSI* Biology, 1998

Molecular Ecology and Evolution John C. Avise, 2010 This volume is a reprinted collection of 69 classics from the Avise laboratory chosen to illustrate a trademark brand of research that harnesses molecular markers to scientific studies of natural history and evolution in the wild Spanning the early 1970s through the late 2000s these articles trace how the author and his colleagues have used molecular genetics techniques to address multifarious conceptual topics in genetics ecology and evolution in a fascinating menagerie of creatures with oft peculiar lifestyles The organisms described in this volume range from blind cavefish to male pregnant pipefishes and sea spiders from clonal armadillos to natal homing marine turtles from hermaphroditic sea snails to hybridizing monkeys and tree frogs from clonal marine sponges to pseudohermaphroditic mollusks to introgressing oysters and from endangered pocket gophers terrapins and sparrows to unisexual all female fish species to living fossil horseshoe crabs and even to a strange little fish that routinely mates with itself The conceptual and molecular topics addressed in this volume are also universal ranging from punctuated equilibrium to coalescent theory to the need for greater standardization in taxonomy from cytonuclear disequilibrium statistics to the ideas of speciation duration and sympatric speciation from historical population demography to phylogenetic reconstructions of males sexual ornaments from the population genetic consequences of inbreeding to Pleistocene effects on phylogeography and from the molecular underpinnings of null alleles to the notion of clustered mutations that arise in groups to compelling empirical evidence for

the unanticipated processes of gene conversion and concerted evolution in animal mitochondrial DNA Overall this collection includes many of the best most influential sometimes controversial occasionally provocative always intriguing or otherwise entertaining publications to have emerged from the Avise laboratory over the last four decades Thus this book conveys through the eyes of one of the field s longstanding pioneers what the organismal side of molecular ecology and evolution really means

Proceedings of the Ocean Drilling Program Ocean Drilling Program,1989 □□□□□□□□ □□□□□□,1982

Textbook of Evolution and Genetics Arthur Ward Lindsey,1929 *Brain, Behavior and Evolution* ,1993 Journal of the Academy of Natural Sciences of Philadelphia Academy of Natural Sciences of Philadelphia,1912 List of members 1812 1848 1 p 1 8 p inserted in 2nd series volume 1

Hematology William Joseph Williams,1990 **Bulletin of Yale University** Yale University,1964 *Heredity* ,1947 **Skeletal Impact of Disease** Bruce M. Rothschild,Larry D. Martin,2006 **Evolutionary Theory** ,1973 International Catalogue of Scientific Literature ,1903 *International Catalogue of Scientific Literature [1901-14].* ,1903 **Milkfish Bibliography A Compilation of Abstracts on Milkfish Studies , Researchers, National Laboratories in Japan** ,1996 **Ecomorphology of fishes** Joseph J. Luczkovich,Philip J. Motta,Stephen F. Norton,Karel F. Liem,2013-04-17 Ecomorphology is the comparative study of the influence of morphology on ecological relationships and the evolutionary impact of ecological factors on morphology in different life intervals populations species communities and evolutionary lineages The book reviews early attempts at qualitative descriptions of ecomorphological patterns in fishes especially those of the Russian school More recent quantitative studies are emphasised including multivariate approaches to ecomorphological analysis the selection of functionally important ecological and morphological variables to analyze an experimental approach using performance tests to examine specific hypotheses derived from functional morphology and the evolutionary interpretations of ecomorphological patterns Six major areas of fish biology are focused on feeding sensory systems locomotion respiration reproduction and phylogenetic relationships The 18 papers in the volume document 1 how the morphologyof bony fishes constrains ecological patterns and the use of resources 2 whether ecological constraints can narrow the niche beyond the limits imposed by morphology fundamental vs realized niche 3 how communities of fishes are organized with respect to ecomorphological patterns and 4 the degree to which evolutionary pressures have produced convergent or divergent morphologies in fishes A concluding paper summarizes ecomorphological research in fishes and points out taxa that are underrepresented or are especially promising for future research

Aquatic Sciences and Fisheries Abstracts ,1996-11 **Therapeutic Notes** ,1930

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