# MOLECULAR CLOCKS LAB

Name	
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#### Exercise I

40	Belle annual transaction and	Complete and decided	of the second	Bright Commence of	Organisms A	Commence of the commence of
200	A PROPERTY AND ADDRESS OF THE PARTY AND ADDRES	CONTRACTOR SALE AND ADDRESS.	Appear of Contract of the Contract of	The Control of the Co	A CONTRACTOR OF THE PARTY OF TH	Committee that the committee of

- 2. Organisms A and C: 0
- 3. Organisms B and C: 5.
- 4. Which is the horse? B How do you know?

B has the most differences in the amino acids of the three organisms

5. Explanation

Evolution is the idea that within a body things change over time based on amount of time and environmental changes. The theory of evolution talks about how monkeys and humans are related which is why the amino acids in the human and gorilla are so similar.

#### Exercise III

4	State of the same of the same	with the second second	Committee of the Committee of the	man and the property of	The second second second	10 miles and 10 miles	The second of th
1	III WYCH ETHORSES	ACCRECATION OF THE	THE RESIDENCE	species are	WHITE THE PARTY NAMED IN COLUMN TWO IS NOT THE P	484,600	AND DOLLARS

How do you know?

There is only a 2% difference in the two

Species most distant from the other three is \_\_chortles\_\_\_\_\_

How do you know? Have a 6% difference from wiggs and gleeps

- Cladogram:
  - 1. Wiggs
  - 2 Arps
  - 3. Gleeps
  - 4. Chortles

Earliest split point occurred about \_12\_\_\_\_ million years ago.

Middle split point occurred about \_6\_\_\_ million years ago.

Most recent split point occurred about \_\_\_\_4\_\_\_ million years ago.

# **Biology Study Guide Answers Molecular Clocks**

Peter A. Rosenbaum

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Rosenbaum, 1993 Kumar, 2009-04-23 The evolutionary history of life includes two primary components phylogeny and timescale Phylogeny refers to the branching order relationships of species or other taxa within a group and is crucial for understanding the inheritance of traits and for erecting classifications However a timescale is equally important because it provides a way to compare phylogeny directly with the evolution of other organisms and with planetary history such as geology climate extraterrestrial impacts and other features The Timetree of Life is the first reference book to synthesize the wealth of information relating to the temporal component of phylogenetic trees In the past biologists have relied exclusively upon the fossil record to infer an evolutionary timescale However recent revolutionary advances in molecular biology have made it possible to not only estimate the relationships of many groups of organisms but also to estimate their times of divergence with molecular clocks. The routine estimation and utilization of these so called time trees could add exciting new dimensions to biology including enhanced opportunities to integrate large molecular data sets with fossil and biogeographic evidence and thereby foster greater communication between molecular and traditional systematists. They could help estimate not only ancestral character states but also evolutionary rates in numerous categories of organismal phenotype establish more reliable associations between causal historical processes and biological outcomes develop a universally standardized scheme for biological classifications and generally promote novel avenues of thought in many arenas of comparative evolutionary biology This authoritative reference work brings together for the first time experts on all major groups of organisms to assemble a timetree of life The result is a comprehensive resource on evolutionary history which will be an indispensable reference for scientists educators and students in the life sciences earth sciences and molecular biology For each major group of organism a representative is illustrated and a timetree of families and higher taxonomic groups is shown Basic aspects of the evolutionary history of the group the fossil record and competing hypotheses of relationships are discussed Details of the divergence times are presented for each node in the timetree and primary literature references are included The book is complemented by an online database www timetree net which allows researchers to both deposit and retrieve data Chronobiology of Marine Organisms Ernest Naylor, 2010-02-04 Do intertidal organisms simply respond to the rise

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