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Evolution Practice 1

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Evolution Practice 1

- Why does this picture inaccurately depict the evolution of modern humans (specifically in relatedness/ancestry to apes) (p.s. it’s not the computer :D) What might be a better visual representation of evolution?

Answer the following questions using information from the handouts, and examples from the LAB

1. Homologous structures are structures on different organisms that have a common evolutionary origin. How can you tell that these structures are modifications of the same ancestral structure?

- What characteristics do homologous structures have (structurally/developmentally) that provide evidence that two organisms did in fact share an ancestor?
- What are two examples (sets) of homologous structures? How do you know they are homologous?

2. Analogous structures do not provide evidence of common ancestry between two organisms.

- What are analogous structures?
- Explain why analogous structures do not provide evidence of common ancestry.
- What are 2 examples of analogous structures?
3. Vestigial structures provide compelling evidence of evolution.

- What are vestigial structures?
- How do they provide evidence of evolution?
- What can you conclude about the ancestor of the organism with the vestigial structure?
- What are two examples of vestigial structures?