BI0101 Evolution June 2, 2021

Source: [[KBBiologyMasterIndex]]

1 | Evolution

The unifying theory of all biology involving any change in the heritable traits in a population over a long period of time.

Causes of of evolution - different reproduction rates - Environmental pressures - non-random mate choices - Migration

Evidence for evolution - Lab evidence of short-lifespan bacteria - Fossels and and DNA evidence

1.1 | Begin by defining evolution

 \Rightarrow Descend with modification

Micro-evolution: changes in alleal frequency within a population from one generation to the next

Macro-evolution: descend of different special from a common ancestry over much longer timescales

Remember: evolution happens over **deep time** — much longer than your monkey brain could feasibly preserved

The size of civilization to now is about 10,000 years, which is 0.002 seconds if all history is 1 minute.