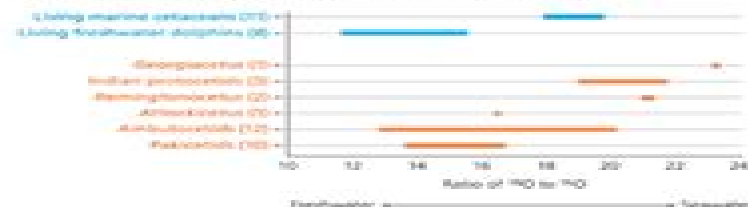


## Evolution Lecture 1: The Whale and the Virus: How Scientists Study Evolution

- Evolution explains the diversity of life from whales to viruses
- "Nothing in biology except in the light of evolution" - Theodosius Dobzhansky
- **Evolution** - "change through time"
- **Biological evolution** - any change in the inherited traits of a population that occurs from one generation to the next
- **Homology** - characteristics shared among related individuals because of common ancestry
- **Synapomorphy** - a derived characteristic shared among a common ancestor and its descendants
- **Phylogeny** - evolutionary history of a lineage
- How do we know whales are mammals?
  - *Whales share synapomorphies with mammals*
    - Mammary glands
    - Three middle ear bones
    - Hair (in developing embryos)
  - *Similarities with fish arose through convergent evolution (different species in same environment adopt similar characteristics)*
- Fossil whales share synapomorphies with modern cetaceans (marine mammal family)
- Transitional fossils (alike in some animals but are different overall) reveal links to land mammals
  - Shape of astragalus connects transitional forms with artiodactyls
- Fossil sequence documents transition from land to water
- Independent lines of evidence document the transition from land to water
  - Isotopic analysis of fossil teeth
  - Fossil analysis of hindlimb loss
  - Embryonic analysis linked to gene expression
- Isotopic analysis of fossil teeth
  - Terrestrial animals drink freshwater; marine animals drink seawater
  - $^{18}\text{O}/^{16}\text{O}$  ratio higher in seawater
    - Higher ratio in teeth of marine animals



- Fossils document hindlimb loss
  - Only remnants of hindlimbs remain in **extant** (currently living) species
- Changes in gene expression led to loss of functional hindlimbs
  - Hindlimbs begin to form but do not develop fully in dolphins

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common foods that count as fluid when keeping track of your fluids don't forget that foods that melt or are liquid at room temperature are also considered fluids

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web fluid intake is routinely documented with meal intake some clients with certain health conditions also have their output measured and documented every shift intake and output are then calculated over a 24 hour period and monitored by the nurse

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provide a way of recording all fluid intake and output different versions are available for the various healthcare settings

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web jun 3 2021 issn online 2052 2819 references the calculation of fluid balance involves measuring the amount of fluid entering the body and comparing it to the amount of fluid leaving the body the purpose is to determine whether there is a deficit or an excess of fluid bannerman 2018

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