

15-3 Evolution in Process

More Evidence of Evolution

Homologous, Analogous and Vestigial Structures

- Homologous features- similar features that originated in a shared ancestor.



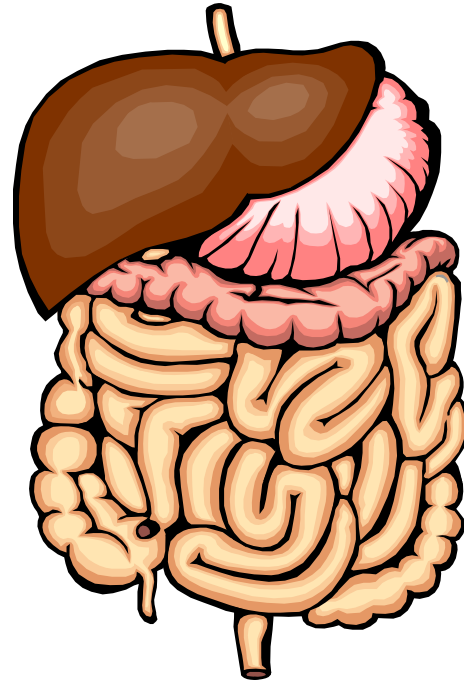
Evidence of evolution-

- Analogous features- in evolution, structures in more than one organism that have similar appearance and function but different embryological origin and lack of a common ancestor.



Vestigial structures-

- Were useful to an ancestor but have no real use to the modern organism. Ex. Appendix, tail bone in humans.



More similarities of evolution-

- Embryology-many embryos of different vertebrates and other organisms look similar.
- Similar macromolecules- RNA, DNA and proteins like hemoglobin.(Chemistry)

Patterns of Evolution:

- Coevolution- change of two or more species in association with each other.
- Convergent evolution- organisms with different ancestors develop similar features.
Ex. Shark, dolphin
- Divergent evolution- organism with a common ancestor evolve differently. Ex. Dogs- german shepard and a poodle.

