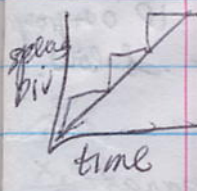


Oral say

(2)

Evolutionary trends result from gene phenos, interact w/ favorable + unfavorable environments

Adapt. mech was long thought to be gradual but is now known not to be.



Eldredge + Gould (1975) - punctuated equilibrium - or a long stretch of existence of a species followed by spurts of change (step function). is the most likely mechanism (environments can change quick) - dinos went extinct first ; dinos + humans did not coexist - Humans come from mice! Geographic + breeding isolation are forms of selective pressure

see H/O

Univ

EVIDENCE of evolution (all must agree)

- Homology - similar structures (same origin) ex flipper, wing, arm
- Vestiges - remainders of once utilized ex tail bone homol. struct
- Embryonic development - ontogeny recapitulates phylogeny ex time lapse
- Macromolecules - biochem. evidence | genes | proteins ex DNA, RNA, consensus
- Fossil Record - evidence of species formation ex strata Pre-dating extant species ex support

Refer to Aud 351 branch diagrams as cladograms

ORAL-SAY

Know K-PCOFGS - words. GENUS SPECIES system descriptive

- Taxonomy + classification - turning a key into a tree
- cladistics analyzes evolutionary relationships between organisms that form a group