

FR  
6/5/09

NED WIDEK  
Collect HW  
+ 2001 figs

- Darwin's Big ideas
- H-W equilibrium
- ~~Cladistics~~
- Mechanisms of speciation

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Aim What is the mechanism for speciation?

Oral Read

collab

Darwin + Wallace say that most robust gene factors "Survive" <sup>environmental pressure</sup> are passed on. Natural selection

is the survival of most suited organism to a given environment. He saw this in living things

The idea of descent with modification

stated that newer forms in the fossil record are modified descendants of older species

Write

O = OBSERVATION C = CONCLUSION

O1 → pop increase  
O2 → constant resources

C1 → competition  
(convergence of variation + selection of multiple organisms)

O3 → pop members differ within environments

C2 → survival of well-adapted INDIV

O4 → variation due to passable traits

C3 → reproduct of survivors over generations focuses gene pool

5 FACTORS } VARIATION  
INHERITANCE  
SELECTION  
TIME  
ADAPTATION

drive speciation

EVO TRENDS!  
genes interact w/ favorable + unfavorable environments

one starter species could give rise to diff pops



speciation

IM

ORal