

Community Ecology Community

- all the organisms that live together in a place To answer: interactions
- In what way do the Community Ecology
 - populations interact?
 - interactions among all populations in a common environment

study of



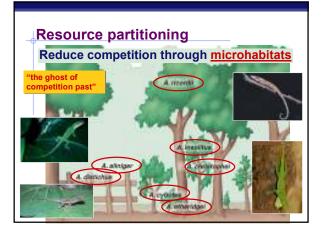


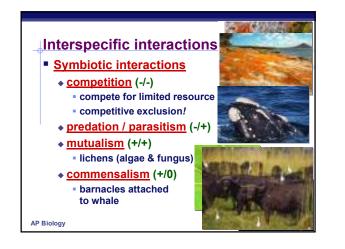
Niche & competition

Competitive Exclusion

 No two similar species can occupy the same niche at the same time

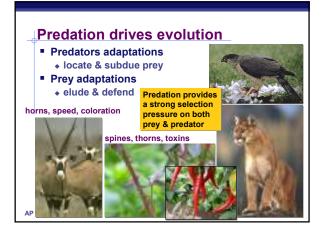


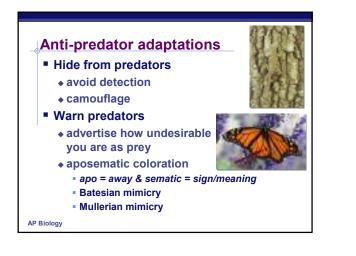




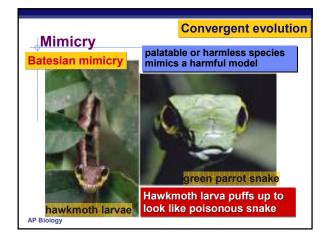




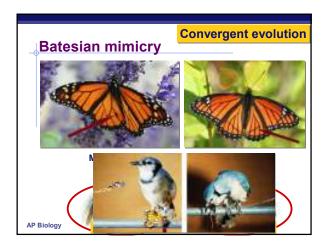












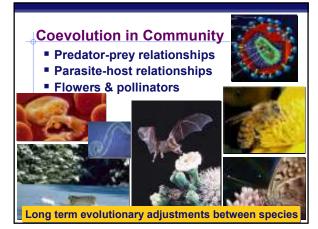








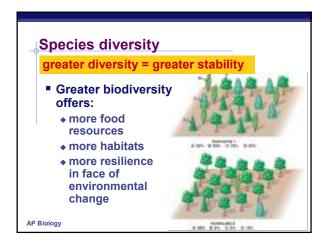




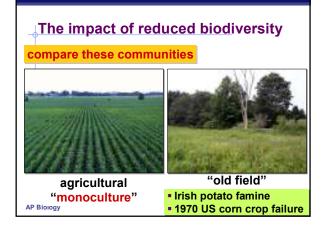
Characterizing a community

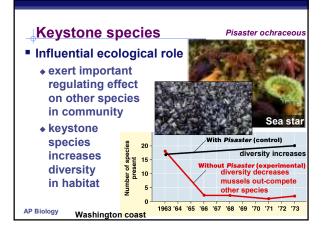
- Community structure
 - species diversity
 how many different species
 - composition
 - dominant species
 - most abundant species or highest <u>biomass</u> (total weight)
 - <u>keystone species</u>
 changes over time
 - <u>succession</u>



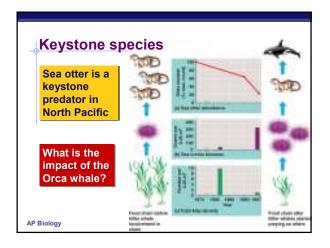














Ecological succession

- Sequence of community changes
 - ◆ transition in species composition over time
 years or decades
 - usually after a disturbance





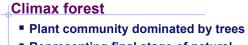












- Representing final stage of natural succession for specific location
 - stable plant community
 - remains essentially unchanged in species composition as long as site remains undisturbed
 - birch, beech, maple, hemlock
 - oak, hickory, pine

