

Speciation Island



- Speciation occurs when pops become isolated
- Geographic - Physical barrier
- Behavioral - differ in mate choice/ritual
- Temporal - breeding at different times/seasons



- Acts on adaptations
- This island is darker
- Population adapted by developing big eyes through mutations darker shells
- Can lead to new species (speciation)



Natural Selection Island

Gene Flow Island



- movement between populations
- Introduces new alleles into population
- also called migration
- im - going in
- em - exiting
- Increases genetic variation

- Caused by random event that shrinks pop size
- changes allele frequency randomly - by chance
- Bottle neck effect - pop size is greatly reduced for at least 1 generation - reduces variation
- Founders effect - small random group leaves & makes a new pop w/a diff. allele freq.



Genetic Drift Island

Speciation
= NO

Prevents Speciation