

COURSE GUIDELINE: LECTURE 05

Mechanisms of Evolution II

- Mutation
 - Point mutations (transition, transversion, insertion, deletion)
 - Somatic vs. germline mutations
 - Silent mutations
 - Replication slippage
 - Microsatellites & SNPs
 - Rates of mutation (how to estimate)
 - Case study: *C. elegans* & Evolution in a big city

- Genetic drift
 - Heterozygosity
 - Effective population size vs. census size
 - Founder effect/bottlenecks
 - Case study: Argentine ants (supercolonies)