

# Driving Phenotypes: Genotype + Environment

11/17/2009

# Phenotype

- Observable features of an organism
- Can be caused by several genes (polygenic) or by a single gene (monogenic)
  - Can vary at different proportions
- Can be a physical trait (height, eye color, weight, etc) or can be a disease.

# Phenotype

- Phenotype = Genotype + Environment + GxE
  - $V_p = V_g + V_e + V_i$  where  $i = G \times E$

