

## □ Examples of Interactions

As predictors can be either continuous or discrete (categorical), the following types of interactions are possible:

Second order interactions { 1. continuous by continuous  
e.g. Body Weight  $\sim$  Breast Circumference + HEIGHT  
continuous (in cm) continuous (in cm)

Body Weight  $\sim$  Breast Circumference  $\times$  HEIGHT

2. continuous by categorical  
e.g. BC and Breed

3. categorical by categorical

e.g. Breed and Sex

For more than two predictor variable, higher order interactions are possible. Eg with three predictors  $\Rightarrow$  third order interactions.