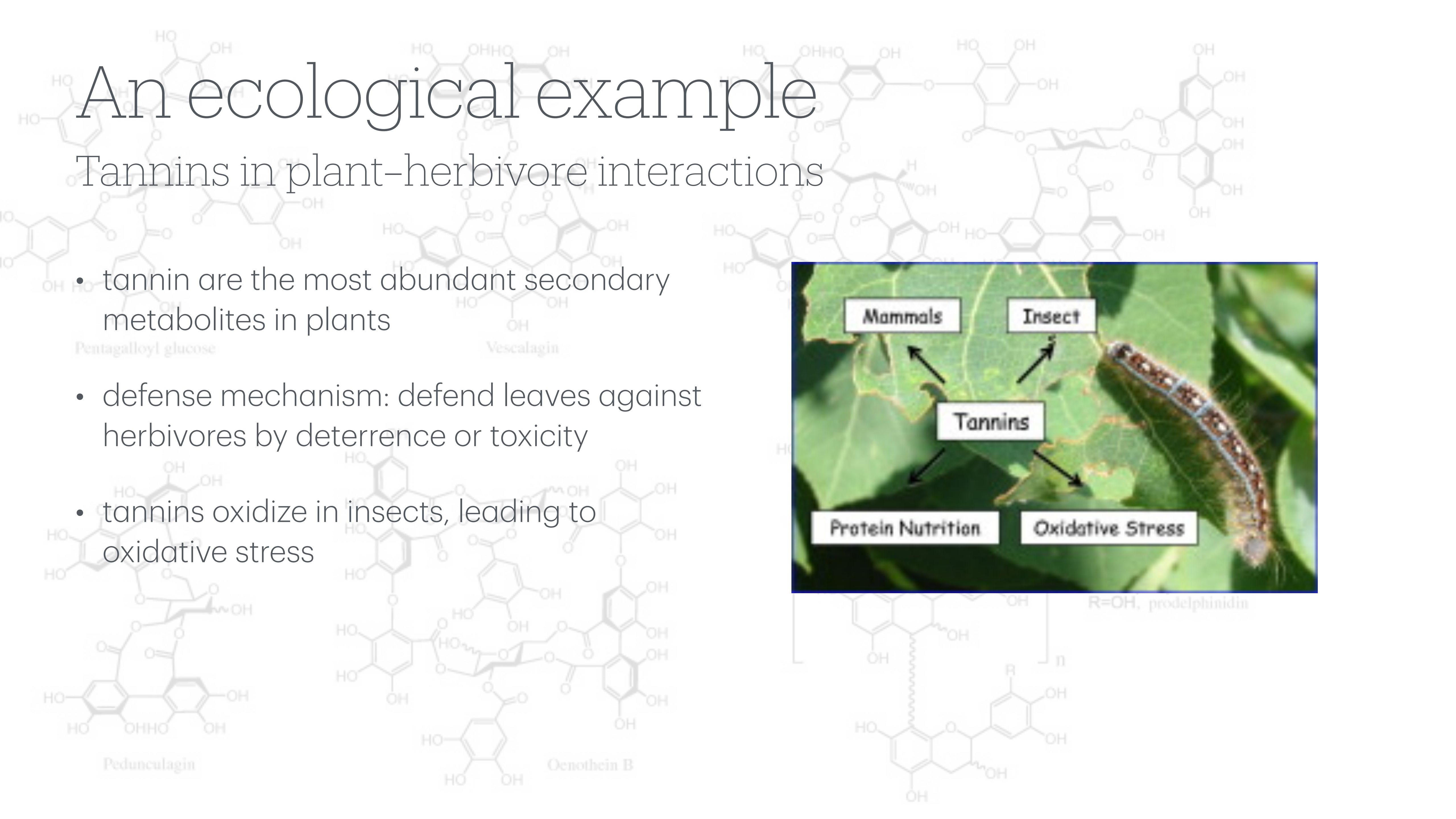
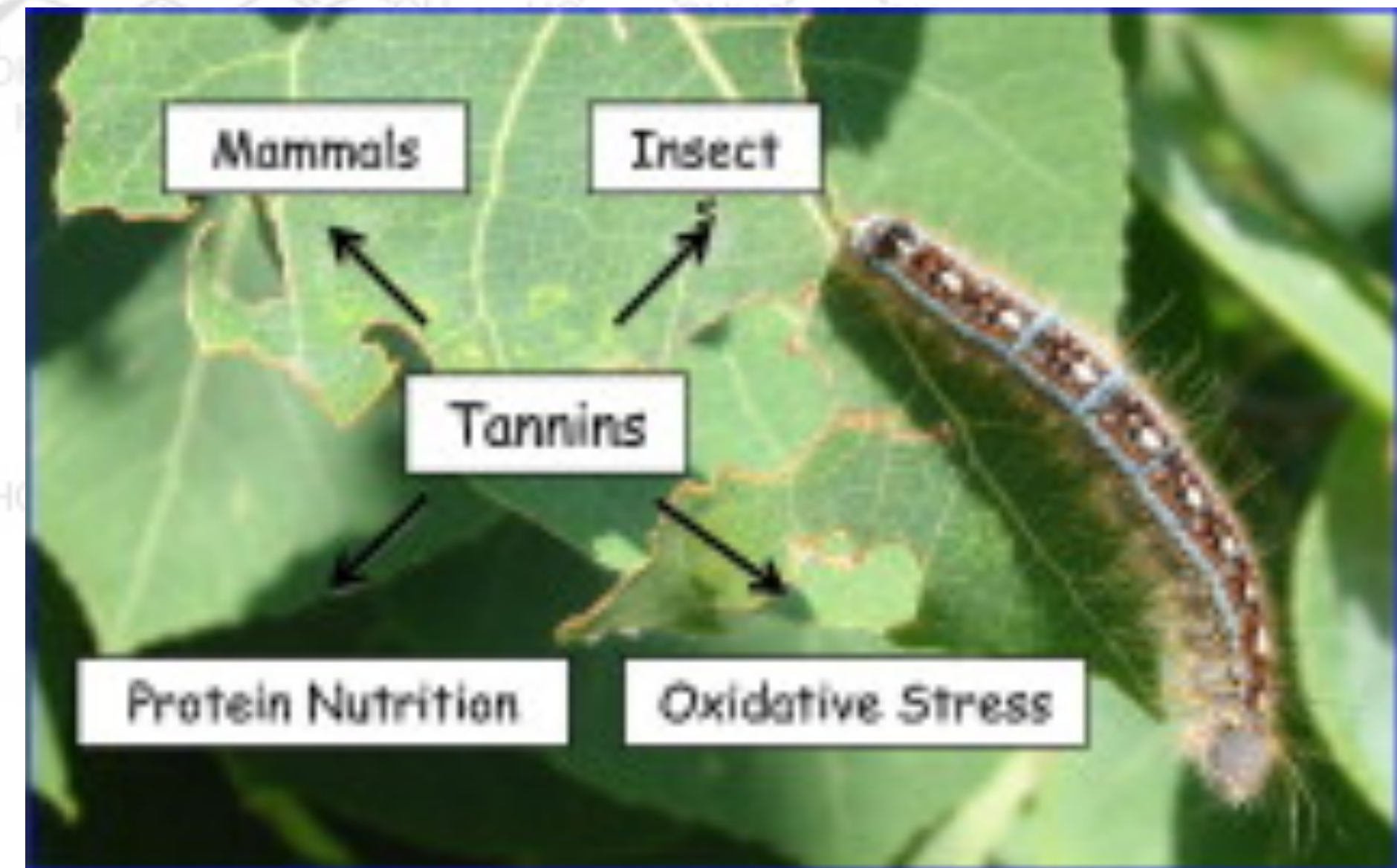


# An ecological example

## Tannins in plant-herbivore interactions

- tannins are the most abundant secondary metabolites in plants
- defense mechanism: defend leaves against herbivores by deterrence or toxicity
- tannins oxidize in insects, leading to oxidative stress



# Our variables

- $y_i$ : **caterpillar growth** - response variable
- $x_i$ : **quantity of tannin in the caterpillar diet** - predictor variable,

