

# Population Dynamics Exam 2

Lecture 8-12, Study Guide

## Interspecific Interactions

### Lotka-Volterra Predator-Prey Model

= predator and prey limit each other's growth potential

Model for prey

$$N_{t+1}^{prey} = N_t^{prey} + N_t^{prey}(r^{prey} - k^{pred} N_t^{pred})$$

Model for predator

$$N_{t+1}^{pred} = N_t^{pred} + N_t^{pred}(b^{pred} N_t^{prey} - d^{pred})$$

→ the model is based on **geometric growth!!!**

- $r^{prey}$  = growth rate of prey (in the absence of predators)
- $k^{pred}$  = kill rate
- $b^{pred}$  = effect of prey on predator birth rate
- $d^{pred}$  = predator mortality rate

### Equilibrium

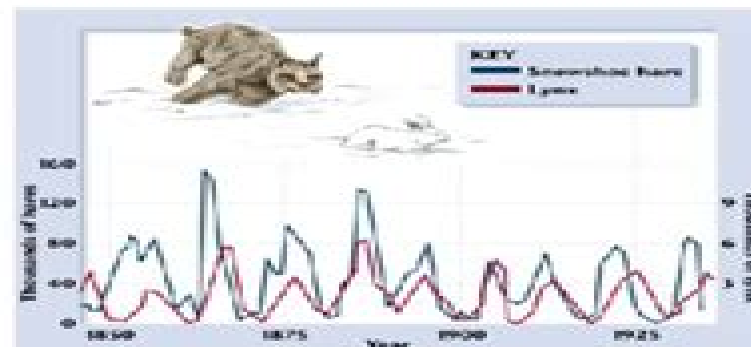
Equilibrium for **prey** occurs when:

$$N^{pred} = \frac{r^{prey}}{k^{pred}}$$

Equilibrium for **predators** occurs when:

$$N^{prey} = \frac{d^{pred}}{b^{pred}}$$

\*\*\* It is rare the both equilibrium conditions will be met at the same time  
— populations will cycle!!!



# Section 1 Study Guide Population Dynamics

**Jianjun Gao**



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