

# INTERSPECIFIC COMPETITION



Hummingbirds @ Wildsumaco Biological Station

Smith and Smith 2015, Chapter 12, 13

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# Announcements

## On Deck

- Next: Predation
- Then: Symbiosis

## Assignments

Read: Chapter 14

Bristle Worm Eats Benthic Jellyfish (Stoner & Layman 2015 and Video)

## Vocabulary

zero-growth isoclines, competitive exclusion principle, niche overlap, competitive release, fundamental vs. realized niche, niche differentiation, niche overlap, character displacement, Lotka-Volterra competition equations.

# Today's Learning Objectives

- Identify nine qualitative **types of interactions** or relationships between **two species**
- Use **Lotka-Volterra** models to describe and build understanding of **intraspecific** and **interspecific** competition
- Use LV models to predict the outcome of competition
- Discuss **environmental factors** that influence **interspecific** competition
- Use niche concept to explain niche differentiation