**Day 10. Life history evolution**

1. For each of the following cases, predict the life history based on r- vs. K-selection.

Species	# & size of offspring	length of life	semelparous or iteroparous?	r or K selection?
a weedy plant that colonizes disturbed sites				
a fish living in a small, nutrient-poor lake				

Evolution of life history traits in guppies with different predators
C = *Crenichichla alta* = adult predator   R = *Revulus hartii* = juvenile predator
A = *Aequidens pulcher* = very low predation
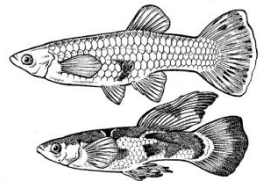
Would you expect big or small guppies to be most vulnerable to *C. alta*? Why?

Would you expect big or small guppies to be most vulnerable to *R. hartii*? Why?

Based on your answers above, we'll make predictions about each of the following traits for guppies living in ponds that have different predators.

	Trait		
Predator	Adult size at 1st reproduction (big or small)	Size of offspring (big or small)	Allocation to current reproduction (high or low)
C. alta			
R hartii			
A. pulcher			

Evaluate the data! You'll get a handout of graphs after you're done with your predictions.