Zoology 433

Take home assignment
15 points

Due Wednesday March 2

Read Chapter 10 of your textbook. Choose a molecule that is thought to have an important role in amphibian pattern formation.

a. What molecule did you choose?

b. Find a published review (2000 – 2005) that further describe current models for the molecular control of amphibian pattern formation*

c. Briefly describe two experiments that investigate the role of this molecule in amphibian pattern formation. For each experiment, state whether this is correlative data, a loss-of-function experiment, or a gain-of-function experiment. Also cite your source(s).

* You can find reviews cited in your textbook, or you can use PubMed. For example, go to the PubMed site: http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?
Type: Spemann AND organizer AND review
Once you find potentially interesting reviews, make notes of the references. You can access some of the reviews through the library website. Others may be free online without a subscription.
To access the library, go to http://www.lib.iastate.edu/
Click on library catalog
Choose “serial titles” on the pull-down menu, and type in the journal name (for example Annual Review of Cell and Developmental Biology)
If the library has multiple listings, click on the one that says “electronic resource”
Click on the URL
Now you are logged onto the site with an ISU subscription that may allow you access to the full text of the reviews.

Note, this assignment should require ~1 page typed.