**Homework Jan-15: Model Diagram**

25 points total

By 9am on Monday, January 15, please upload a Word document with your file to the corresponding Canvas assignment. Please follow the naming convention:

**HW\_Jan15\_ModelDiagram\_LastName\_FirstName.doc/docx**

Assignment details (see example below):

* Write your research question at the top of the page. *(3 points)*
* Below it, construct a clearly labeled diagram that represents all of the states and processes of interest in your system.
  + Use boxes to represent the *states* important in your system. *(10 points)*
  + Use arrows to represent the *transitions (processes that move individuals)* from one category or state to another. Label transition arrows with descriptions of what variables or other factors will influence the rate at which the transition occurs. *(7 points)*
  + Include a key that clearly states what any symbol/letter/abbreviation you use means. *(5 points)*
* Print your diagram on an otherwise-clean sheet of paper and bring to class.

**Example:**

**Can the Malagasy black rat (*Rattus rattus)* population independently maintain transmission of the plague bacterium, *Yersinia pestis?***

