Take home: One page at most for each question. Simple cut and paste of lecture material will earn you few, if any. points. That said, you are to use only information discussed or linked to in lecture. Construct a concise paragraph that in your own words indicates you understand the material.

1. Why must studies take phylogeny into consideration before concluding if a trait has been shaped by natural selection to fit a particular habitat? Please use bats as an example of a quantitative approach. You can also compare several different studies discussed in lecture that evidenced strong environmental and/or historic signals.

2. A friend who suffers from an autoimmune disease has just heard and is curious about helminth therapy. Explain to her what we know of the long standing relationship between helminths and the human immune system, and why such therapy is effective in regulating some immune diseases. Mention briefly the problems associated with such therapy.