

Molecular Evolution Project write-up (35% of grade).

Due at beginning of class on 3-15-07. Do not e-mail paper, provide a printed copy. Pages should be double spaced.

Introduction (10 points):

Approximately three pages introducing to the problem and providing background. Address why the question is of interest and discuss previous results from the literature.

Methods and Results (13 points):

Approximately three pages describing the methods used and results. Give specific details of methods. Results should be presented in figures or tables.

Discussion (10 points):

Approximately three pages discussing results in the context of previous research. Provide hypotheses to explain your results. Highlight any new research directions you feel would be interesting.

References (2 points):

Provide the authors, title and journal of papers referenced in your paper. Use the following format:

SWANSON, W. J., R. NIELSEN and Q. YANG, 2003 Pervasive adaptive evolution in Mammalian fertilization proteins. *Mol Biol Evol* **20**: 18-20.

Also provide URLs for relevant websites.

Presentation in lab the last week (5 points):

Prepare a short presentation to be given in the final computer lab section. Presentation should be about 5 minutes. Slides can be made using power point.