Bio4241 - Advanced Genetics - Winter 2015
Course Syllabus

Instructor:
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Course webpage:
http://www.mun.ca/biology/scarr/Bio4241.html

Part I: Presentation & Analysis of Classic Genetics Experiments:
In groups of four, present a classic experiment in genetics, using the methods & experimental data from original scientific paper.

One 60 mins @ + 10~15 mins @ for discussion & questions.
I will demonstrate the approach with a lecture on Luria & Delbruck (1943) in the first lecture
Presentation valuation rubric
1. Consult original paper (provided as PDF).
   Include historical background & scientific significance.
2. Consult discussion in Bio2250 textbook as necessary
3. Prepare a web-based lecture [HTML PowerPoint, or Prezi] à la Biol2250
   Methods, Data (Figures & Tables), Results & Conclusions from original.
   Emphasize logic of experiment;
   Provide a critical review of the experiment.
4. Present the paper as a scientific experiment on its own terms
   Provide necessary technical & mathematical background

Chapter presentations will be evaluated based on scientific content, organization, and oral presentation.

10% of the mark for the presentation will be awarded if the web materials are available online, after the Wednesday Lab before the Tues and Thurs lectures.

Grading Scheme:
40% Class presentations
   15% on Part I
   25% on Part II
20% Class participation
   Group n+1 will lead discussion on Group n presentation
16% Midterm (Essay-type: 2 @ 8%)
24% Final (Essay-type: 3 @ 8%)

Midterm & Final exams are essays from the presentations, assigned as part of the presentations.

For the midterm exam, I will select three of these questions at random: you will write 2~3 page essays on any two of these of your choice.
For the final, you will write three essays from among four possibilities.
I expect that the essays will be prepared ahead of time, and that the quality of the presentation will reflect this.

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