BIOE202: Final Project

This semester we have been working with the mouse fibroblast cell line 3T3-L1. For the final project, your team will study the effect of a variable on 3T3-L1s. You may use any of the techniques that we learned in class for your experiments.

The pre-proposal and proposal will be group submissions. The final reports will be individual submissions.

Important dates:
• Pre-proposal due March 16th at 2pm
• Full proposal due April 1st at 5pm
• Project begins week of April 11th
• Final report (1-page BMES style abstract) will be due May 13th at 5pm

Pre-proposal
The pre-proposal is description of your intended experiments. You should explain what you intend to study, why it is important, and how you will conduct the study (what measurements will you take?). The pre-proposal should also list the equipment and reagents necessary for your work. The pre-proposal may include diagrams and has a 1-page limit including references.

The purpose of the pre-proposal is to get early feedback from reviewers (i.e. instructors) on your proposed plan of study. Additionally, review at the pre-proposal stage will allow us to acquire the necessary reagents (if applicable).

Proposal
The proposal should include a detailed description of how the experiments will be performed including safety precautions, protocols, necessary equipment and reagents, for the proposed experiments. The proposal should also include a description of the experimental design (what controls are being used and what purpose they serve and the number of replicates being performed). The proposal may include diagrams and references.

The purpose of the proposal is to ensure that the experiments are carefully planned before lab work begins. Proposals that are inadequate will be returned to teams for revision if necessary. Once your proposal is approved you may begin work on the project.