Drug Design (Biochem/Chem 657): Instructions for Final Paper

**Topic:** Choose a drug that is in current use. You should organize your paper according to the stages of the drug pipeline as we have presented them. Issues that should be discussed include:

- The motivation for development of the drug (nature of the therapeutic goal, medical need)
- Strategies used (structure-based drug design, 'me-too' drug…)
- Library and screening techniques used
- Mode of action of the drug
- Advantages/disadvantages of the drug
- ADME/Tox issues that affect its usage
- Approaches you would use to improve upon this drug or to develop an alternative drug for the same therapeutic goal, and why

Do not cover clinical/pre-clinical testing of the drug, as this is outside the realm of this course.

**Deadlines:**

- Approval of topic: **April 1, 2010**
- Due Date: **May 4, 2010**

**Submission:** The paper should be 10 to 15 pages, double-spaced, and fully referenced. Please email an electronic copy to the instructors as well.

**Expectations:**

- We expect that each person will do his/her own work honestly.
- Please make sure all reference material is appropriately cited.
- We are not interested in a reiteration of the product insert from the drug, but want you to analyze the development of the drug through the drug discovery pipeline.

You MUST give us a brief description of the topic and justify its appropriateness by April 1st! We'll quickly reply about your choice of topic so that you can proceed with the preparation of your paper.