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 or Toxicity 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: **March 29, 2012**

Due Date: **May 7, 2012**

**Submission:** The final paper should be 10 to 15 pages, double-spaced, and fully referenced. This paper should be submitted via SPARK, where it will pass through the plagiarism checker. A paper copy is also due in class.

**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 March 29th! We'll reply about your choice of topic so that you can proceed with the preparation of your paper.