

BCMP 300. Translational Pharmacology

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and Associates.

This is an intensive course held during the first two weeks of January (nine days) covering basic principles of pharmacology and how they are translated into the development of new drugs. Students participate actively in project groups composed of both graduates students and post-graduate M.D.'s to propose a strategy for drug development from target choice through clinical trials. There are two hours of lectures each of the first eight mornings; in the afternoons , there are case studies discussed by guest faculty from the pharmaceutical and biotechnology industries, a discussion of a research paper, or time to work on the group project. Evaluation is based on the project and class participation.

Outline (from January 2007):

- Jan. 2: Unmet clinical needs and finding new drug targets (lecture and case study)
- Jan. 3: Drug receptor interactions (lecture) and work on group projects
- Jan. 4. Pharmacokinetics (lecture) and drug mechanisms (paper discussion)
- Jan. 5. Pharmacogenetics (lecture) and new drug development (case study)
- Jan. 8. Drug discovery approaches (lecture) and clinical pharmacology (case study)
- Jan. 9. Preclinical assessment (lecture) and work on group projects
- Jan. 10. Clinical assessment (lecture) and toxicology (case study)
- Jan. 11. Pharmaco-epidemiology and -economics (lecture) and work on group projects
- Jan. 12. Presentations of group projects.

To be offered in January 2009.

Daily starting at 9:30 a.m.

Location, TMEC 250

Enrollment may be limited.