

## **FRONTIERS IN CANCER PHARMACOLOGY PHRM 660**

**COURSE DIRECTOR:** Ian Blair, PhD;  
A.N. Richards Professor of Pharmacology  
Vice-chair, Department of Pharmacology  
Director, Center for Cancer Pharmacology

**OFFER DATE(S):** **Spring, 2008**

**MEETING TIME:** A single 3-h session/week on Tuesdays from 1 pm to 4 pm  
January 22 – Orientation Class will be from **3:00-4:00pm**

**LOCATION:** M100 Conference Room John Morgan Building

### **COURSE DESCRIPTION:**

This advanced course for graduate students combines didactic lectures from Penn faculty with oral presentations and oral assignments from the students. Students should have either completed “PHRM560: Principles in Cancer Pharmacology or “PHRM640: Topics in Cancer Pharmacology” or equivalent classes. The faculty will present overviews of current and emerging topics in cancer pharmacology. Emphasis of the presentations will be on the translation of basic science discoveries into therapeutic agents. Students will choose related topics to explore in more detail. In consultation with Dr. Blair, students will prepare a 45-minute presentation (using PowerPoint slides). Each student will give at least two presentations during the semester. Available topics include: Cyclooxygenases and cancer; Cell cycle and cancer, New drug delivery methods for cancer drugs; New drug development in oncology; Angiogenesis-based therapies for cancer; Chemical carcinogenesis; Tyrosine kinase inhibitors; Emerging gene therapies in cancer treatment; Antisense therapy for cancer; Effects of treatment on cancer survivors; Topoisomerase inhibitor-related leukemias; Cancer Immunotherapy. Each presentation will be followed by a question and answer period during which the other students in the class will be expected to participate. The faculty teaching the course will be available for help with the presentations. The written assignment will involve a 10-page double spaced paper (exclusive of references) with a maximum of 25 references. The assignment will consist of a literature review in the area of one of the presentation topics chosen by the student. Attendance is required at all lectures and presentations. The grade will be derived from a combination of the quality of the presentations (40 %), participation in the class (20 %), and the written assignment (40 %).

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<b>WK</b>	<b>DAY</b>	<b><u>DATE</u></b>	<b><u>TOPIC</u></b>	<b>FACULTY MENTOR</b>
1	TUE	*01/22/08	OVERVIEW <b>will begin at 3:00</b> <b>(THIS CLASS ONLY)</b>	IAN BLAIR
2	TUE	01/29/08	Chemical Carcinogenesis	Trevor Penning
3	TUE	02/05/08	Chemical Carcinogenesis: <i>Student presentations</i>	Trevor Penning
4	TUE	02/12/08	Chemical Carcinogenesis: <i>Student presentations</i>	Trevor Penning
5	TUE	02/19/08	Etiology 1: Environmental Toxicology	Stacy Gelhaus
6	TUE	02/26/08	Molecular Cancer Pharmacology	Judy Meinkoth
7	TUE	03/04/08	Molecular Cancer Pharmacology <i>Student Presentations</i>	Judy Meinkoth
8	TUE	03/11/08	Molecular Cancer Pharmacology <i>Student Presentations</i>	Judy Meinkoth
9	TUE	03/18/08	Etiology 2: Cyclooxygenases and Cancer	Ian Blair
10	TUE	03/25/08	Etiology 2: Cyclooxygenases & Cancer <i>Student presentations</i>	Ian Blair
11	TUE	04/01/08	New anticancer agents	James Delikatny
12	TUE	04/08/08	New anticancer agents: <i>Student presentations</i>	James Delikatny
13	TUE	04/15/08	Topoisomerase inhibitor-related leukemias	Carolyn Felix
14	TUE	04/22/08	Topoisomerase inhibitor-related leukemias <i>Student presentations</i>	Carolyn Felix