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Fall 9-1-2005

# BMED 647.01: Topics in Toxicology-Cancer

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**Pharmacy 647-Topics in Toxicology-Cancer  
FALL 2005  
GENERAL INFORMATION**

**Class meets Wednesday 1:30-3 pm; and Monday 10:10-11:30 am in SB 337**

		<u>Room</u>	<u>Phone</u>
<b>Coordinators:</b>	Mark Pershous	SB 052A	4769
	Howard Beall	SB159	5112
<b>Additional Instructors:</b>	David Shepherd	SB 058	2224
	Curtis Noonan	SB 055	4957
	Lillian Calderón-Garcidueñas	SB 306	4785
	Fernando Cardozo-Pelaez	SB 160	4025
	Elizabeth Putnam	SB 152B	4794

**References:** Handouts and current research articles

**Recommended Texts:** Molecular Biology of the Cell Alberts et al. Fourth Edition;  
The Genetic Basis of Human Cancer Vogelstein and Kinzler Second edition

**Description:**

This course will provide an overview of carcinogenesis for graduate students in toxicology and other biomedical sciences. Lecture topics will be in the general areas of cancer biology, cancer genetics, and chemical carcinogenesis. Lectures will be supplemented with readings from the current literature.

**Assessment:** Grades will be determined from class participation in discussions(70%) and student presentations (30%).

	<b>DATE</b>	<b>INSTRUCTOR</b>	<b>TOPIC</b>
<b>WEEK 1</b>	8/31 W 9/2 M	Pershous	Introduction and History of Cancer Research
<b>WEEK 2</b>	9/7 W 9/9 M	Noonan	Cancer Epidemiology
<b>WEEK 3</b>	9/14 9/19	Shepherd	Diet and Cancer /Prevention
<b>WEEK 4</b>	9/21 9/26	Cardozo-Pelaez	DNA damage and repair /Chemical carcinogens
<b>WEEK 5</b>	9/28 10/3	Pershous	Cellular and molecular mechanisms of carcinogenesis
<b>WEEK 6</b>	10/5 10/10	Pershous	Cell Cycle/Tumor Kinetics
<b>WEEK 7</b>	10/12 10/17	Calderón- Garcidueñas	Pathology of Cancer

<b>WEEK 8</b>	10/19 10/24	Pershhouse	Tumor suppressors/ Oncogenes
<b>WEEK 9</b>	10/26 10/31	Pershhouse	Senescence Genes/Differentiation Genes /Apoptosis Genes affected in neoplasia
<b>WEEK 10</b>	11/2 11/7	Putnam	predisposition I /Familial cancer syndromes
<b>WEEK 11</b>	11/9 11/14	Putnam	Predisposition II /Non-familial syndromes
<b>WEEK 12</b>	11/16 11/21	Beall	Cancer therapeutics 1
<b>WEEK 13</b>	11/23 11/28	Beall	Cancer Therapeutics 2
<b>WEEK 14</b>	11/30 12/5	Students	Student presentations
<b>WEEK 15</b>	12/7 12/12	Students	Student presentations

The Monday class is sometimes moved to a different location and day, depending on the instructor. Class will start on Wednesday, August 31.