

TUMOR BIOLOGY II: CANCER PHARMACOLOGY (TBIO-535)

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All Lectures at 1:30-3:00 pm W302 Research Building

PART 1.

Sept. 4	Thur	Introduction to Pharmacology	Anton Wellstein, MD PhD
Sept. 9	Tues	Antibiotics	Robert Glazer, PhD
Sept. 11	Thur	Antimitotic drugs	Robert Glazer, PhD
Sept. 16	Tues	Antimetabolites I	Robert Clarke, PhD DSc
Sept. 18	Thur	Antimetabolites II	Robert Clarke, PhD DSc
Sept. 23	Tues	Oncogenes/therapy	Anton Wellstein, MD PhD
Sept. 25	Thur	Bone marrow transplantation	Ruby Deveras, MD
Sept. 30	Tues	Endocrine therapy of tumors	Minetta Liu, MD
Oct. 2	Thur	Antineoplastic activity: <i>in vitro</i> and <i>in vivo</i> studies	Robert Clarke, PhD DSc
Oct. 7	Tues	Gene therapy	Esther Chang, PhD
Oct. 9	Thur	Gene therapy	Esther Chang, PhD
Oct. 14	Tues	Additivity, antagonism and synergy	Fabio Leonessa, MD
Oct. 16	Thur	Alkylating agents and related drugs	Robert Clarke, PhD DSc
Oct. 23	Tues	Antisense strategies in drug development	Robert Glazer, PhD
Oct. 28	Thur	Study Time	
Oct. 29	Tues	Mid-Term Exam	

PART 2.

Oct 30	Thur	Target discovery: transcriptome/proteome	Robert Clarke, PhD DSc
Nov 4	Tues	Clinical application and action of Platinum compounds	Ed Gelmann, MD
Nov 6	Thur	Structure-based drug design	Nagarajan Pattabiraman, PhD
Nov 11	Tues	Mechanism of tyrosine kinase inhibition	Ed Gelmann, MD
Nov 13	Thur	Using phage display for drug discovery	Anton Wellstein, MD PhD
Nov 18	Tues	Using phage display for drug discovery	Anton Wellstein, MD PhD
Nov 20	Thur	Cancer chemoprevention	Claudine Isaacs, MD
Nov 25	Tues	Endocrine therapy of tumors	Minetta Liu, MD
Nov 27	Thur	Thanksgiving	
Dec 2	Tues	Tumor proteolysis as a target for therapy	Robert Dickson, PhD
Dec 4	Fri	Final Paper Due	

Mid-term exam: In this written exam, the students will summarize the pharmacology of 3 different anticancer drugs to be selected from a list of drugs provided and answer selected questions from lectures taken in the first part of the course.

Final exam: The students will write one essay on one topic selected from the curriculum and graded by the appropriate instructor.