

CB7210 Fundamentals of Cancer Biology
Winter 2017

Time: Tuesdays and Thursdays from 2:30-3:45 pm

Location: Scott Hall 2268

Course Directors: Dr. Youming Xie (xiey@karmanos.org); Dr. Guojun Wu (wugu@karmanos.org)

Class	Date	Instructor	Topic
			Block 1
1	10-Jan	Michael Tainsky	Introduction: Historical and Basic Aspects of Cancer
2	12-Jan	Kristen Purrington	Cancer Epidemiology
3	17-Jan	John Reiners	Carcinogenesis: Chemical and Environmental
4	19-Jan	Benjamin Kidder	Cancer Stem Cells and Epigenomics
5	24-Jan	George Brush	DNA Repair: Alterations during Tumor Development
6	26-Jan	Gensheng Wu	Oncogenes
7	31-Jan	Guojun Wu	Tumor Suppressors
	2-Feb	A Guastella, L Hurley, N Moses	Study Day
	7-Feb		Exam 1: Classes 1-7 worth 70 points
			Block II
8	9-Feb	Karin List	Animal Models
9	14-Feb	R. Daniel Bonfil	Angiogenesis
10	16-Feb	Sreenivasa Chinni	Metastasis
11	21-Feb	Russell Finley	Cell Cycle
12	23-Feb	Youming Xie	Protein Degradation in Cancer
13	28-Feb	Zeng-Quan Yang	Transcriptional Regulation of Tumor Growth
14	2-Mar	Hyeong-Reh Kim	Apoptosis
	7-Mar	K Conner, E Girsch, D Luedtke	Study Day
	9-Mar		Exam 2: Classes 8-14 worth 70 points
			Block III
	14-Mar		<i>Spring Break-No Class</i>
	16-Mar		<i>Spring Break-No Class</i>
15	21-Mar	Yubin Ge	Hematological Malignancies
16	23-Mar	Malathy Shekhar	Receptor Mediated Cell Signaling
17	28-Mar	Malathy Shekhar	Hormone Mediated Cell Signaling
18	30-Mar	Nerissa Viola-Villegas	Tumor Physiology and Image
19	4-Apr	Michael Joiner	Radiation Therapy
20	6-Apr	Gilda Hillman	Tumor Immunology
21	11-Apr	Larry Matherly	Cancer Therapeutics I
22	13-Apr	Larry Matherly	Cancer Therapeutics II
23	18-Apr	Larry Matherly	Cancer Therapeutics III
24	20-Apr	Ulka Vaishampayan	Clinical Issues: Detection, Diagnosis and Clinical Trials
	25-Apr	J Heyza, B McKnight, A Wallace	Study Day
	27-Apr		Exam 3: Classes 15-24 worth 100 points

Learning Outcome

The objective of this course is to introduce students to a broad range of topics on fundamental cancer biology from basic research to clinical application. Details of this course are listed in the syllabus. *It is expected that the students will become familiar with all topics taught in this course.* This learning outcome is critical for the development of students into independent scientists and/or clinicians.

Grading

Grades will be based on attendance and three exams.