Spring Semester 2017

Course: GMS6065-Fundamentals of Cancer Biology

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Course Objectives: a. To provide students with fundamental background knowledge of cancer, its causes, incidences, facts and figures, b. to educate students in current topics of cancer research from both laboratory and clinical perspectives, c. to explain methodologies employed by cancer researchers to study cancer at the molecular, cellular and host level, d. to provide students with an understanding of modern technologies in cancer diagnosis and treatment, d. to familiarize students with approaches to cancer prevention and novel molecular targeting developments in cancer therapy and detection.

Lectures: Mondays and Wednesdays at 8:30-9:20 and 9:35-10:25 Room: Lectures will be held primarily in the Cancer/Genetics Research Complex auditorium, room CGRC 101. Exams are scheduled for Wednesday 2/08 and Wednesday 3/15

Lecture	Day	Date	Room	Section 1	Faculty
L1	Wed	1/4	CGRC 101	Background and Overview	D. Siemann
L2	Wed				
L3	Mon	1/9	CGRC 101	Genetics of Cancer	M. Wallace
L4	Mon			Tumor Suppressors and Oncogenes	M. Wallace
L5	Wed	1/11	CGRC 101	Gene Expression Profiling	H. Baker
L6	Wed			Carcinogenesis	M. James
	Mon	1/16		Martin Luther King Holiday	
L7	Wed	1/18	CGRC 101	Epigenetic Regulation of Tumor Cells	L. Zhou
L8	Wed			Epithelial-mesenchymal transition (EMT)	L. Wu
L9	Mon	1/23	CGRC 101	MicroRNAs and Cancer	T. Schmittgen
L10	Mon			Apoptosis	S. May
L11	Wed	1/25	CGRC 101	Tumor Microenvironment	D. Siemann
L12	Wed			Exercise and Cancer	D. Siemann
L13	Mon	1/30	CGRC 101	Cancer Cachexia	A. Judge
L14	Mon			Cancer Immunology	E. Sayour
L15	Wed	2/1	CGRC 101	Microorganism and Cancer	C. Jobin
L16	Wed				
L17	Mon	2/6	CGRC 101	Cancer Stem Cells	B. Reynolds
L18	Mon			Metastasis	D. Siemann
	Wed	2/8	CGRC 101	Section 1 Exam	

Lecture	Day	Date	Room	Section 2	Faculty
L19	Mon	2/13	CGRC 101	Prostate Cancer	L. Rice
L20	Mon			Breast Cancer	K. Brown
L21	Wed	2/15	CGRC 101	Leukemia	W. Slayton
L22	Wed			True Disease Models	R. Milner
L23	Mon	2/20	CGRC 101	Surgery	J. Trevino
L24	Mon			Radiotherapy	R. Zlotecki
L25	Wed	2/22	CGRC 101	Immunotherapy	E. Sayour
L26	Wed			Chemotherapy	B. Fletcher
L27	Mon	2/27	CGRC 101	Drug Resistance	T. Rowe
L28	Mon			Chemoprevention	M. James
L29	Wed	3/1	CGRC 101	Cell Cycle Regulation	B. Law
L30	Wed			Molecular Targeting	B. Law
		3/6 – 3/10		UF Spring Break	
L31	Mon	3/13	CGRC 101	Cancer Nanomedicine	C. Rinaldi
L32	Mon			Structure Based Drug Design	D. Ostrov
	Wed	3/15	CGRC 101	Section 2 Exam	

Grading:

- The grade will be assigned based on numerical performance on two examinations; one at the end of each section. Each exam will comprise 50% of the final grade.
- Lecture materials will be provided in PDF format. There is no required textbook.

Expectations:

- Students are expected to arrive before class is scheduled to begin.

Students are expected to turn off cell phones before class begins and in general are expected to behave in a respectful, mature, courteous manner toward the lecturers and toward each other.