

Spring Semester 2020

Course: GMS6065-Fundamentals of Cancer Biology

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The Course Objectives are to:

- Provide students with fundamental background knowledge of cancer, its causes, incidences, facts and figures
- Educate students in current topics of cancer research from both laboratory and clinical perspectives
- Explain methodologies employed by cancer researchers to study cancer at the molecular, cellular and host level
- Provide students with an understanding of modern technologies in cancer diagnosis and treatment
- 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 (lectures on 1/22 will be in CGRC 451).

Exams are scheduled for Wednesday 2/6 and Wednesday 3/13

Lecture	Day	Date	Room	Section 1	Faculty
L1	Mon	1/6	CGRC 101	Background and Overview	D. Siemann
L2	Mon			Gene Expression Profiling	H. Baker
L4	Wed	1/8	CGRC 101	Genetics of Cancer	M. Wallace
L5	Wed			Tumor Suppressors and Oncogenes	M. Wallace
L6	Mon	1/13	CGRC 101	Carcinogenesis	M. James
L7	Mon			Epigenetic Regulation of Tumor Cells	L. Zhou
L8	Wed	1/15	CGRC 101	MicroRNAs and Cancer	T. Schmittgen
L9	Wed			Epithelial-mesenchymal transition (EMT)	L. Wu
	Mon	1/20		Martin Luther King Holiday	
L10	Wed	1/22	CGRC 451	Apoptosis	S. May
L11	Wed			Cell Cycle Regulation	B. Law
L12	Mon	1/27	CGRC 101	Cancer Immunology	E. Sayour
L13	Mon			Cancer Cachexia	A. Judge
L14	Wed	1/29	CGRC 101	Tumor Microenvironment	D. Siemann
L15	Wed			Metastasis	D. Siemann
L16	Mon	2/3	CGRC 101	Cancer Stem Cells	B. Reynolds
L17	Mon			Microorganism and Cancer	C. Jobin
	Wed	2/5	CGRC 101	Section 1 Exam	

Lecture	Day	Date	Room	Section 2	Faculty
L18	Mon	2/10	CGRC 101	Leukemia	W. Slayton
L19	Mon			Breast Cancer	B. Law
L20	Wed	2/12	CGRC 101	Prostate Cancer	L. Rice
L21	Wed			True Disease Models	R. Milner
L22	Mon	2/17	CGRC 101	Surgery	J. Trevino
L23	Mon			Radiotherapy	R. Zlotecki
L24	Wed	2/19	CGRC 101	Radiobiology	D. Siemann
L25	Wed			Chemotherapy	B. Fletcher
L26	Mon	2/24	CGRC 101	Drug Resistance	T. Rowe
L27	Mon			Structure Based Drug Design	D. Ostrov
L28	Wed	2/26	CGRC 101	Immunotherapy	E. Sayour
L29	Wed			Chemoprevention	M. James
		3/2 – 3/6		UF Spring Break	
L30	Mon	3/09	CGRC 101	Cancer Nanomedicine	C. Rinaldi
L31	Mon			Exercise and Cancer	D. Siemann
	Wed	3/11	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 on line. There is no required textbook.

Expectations:

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