

Spring Semester 2017

Course: GMS6065-Fundamentals of Cancer Biology

Course Director: Dietmar W. Siemann, Ph.D.

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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	

