TOPICS IN MEDICAL BIOCHEMISTRY

BIOCHEMISTRY 550

2011 SYLLABUS

LEC #	Date	Topic	Lecture
1	Jan 18	Cancer	Course overview, Cancer overview
2	Jan 20	Cancer	Eukaryotic cell cycle
3	Jan 25	Cancer	Eukaryotic cell death
4	Jan 27	Cancer	Genome instability, DNA damage and repair
5	Feb 1	Cancer	Oncogenes: receptor tyrosine kinases
6	Feb 3	Cancer	Oncogenes: signal transducing molecules
7	Feb 8	Cancer	Tumor suppressors
8	Feb 10	Cancer	Tumor microenvironment: angiogenesis
9	Feb 15	Cancer	Case studies: breast cancer
10	Feb 17	Cancer	Cancer Therapy
11	Feb 22	Cancer	Discussion and Review
12	Feb 24	Cancer	EXAM 1: Cancer
13	Mar 1	HIV	Natural history and pathogenesis
14	Mar 3	HIV	Structure and life cycle
15	Mar 8	HIV	Integration and transcription
16	Mar 10	HIV	RNA structure and translation
	Mar 12-20		SPRING BREAK
17	Mar 22	HIV	Adaptive immunity to viral infection
18	Mar 24	HIV	Viral dynamics and immune system collapse
19	Mar 29	HIV	Case study: cytotoxic T cell escape
20	Mar 31	HIV	Vaccines for HIV prevention
21	Apr 5	HIV	HIV Therapy
22	Apr 7	HIV	Discussion and Review
23	Apr 12	HIV	EXAM 2: HIV
24	Apr 14		POSTER SESSION
25	Apr 19	Atherosclerosis	Lipid metabolism: cholesterol and fatty acids
26	Apr 21	Atherosclerosis	Lipid metabolism: lipoproteins and lipid uptake
27	Apr 26	Atherosclerosis	Tangier disease
28	Apr 28	Atherosclerosis	Metabolic Syndrome
29	May 3	Atherosclerosis	Type 2 Diabetes
30	May 5	Atherosclerosis	Atherosclerosis and Metabolic Syndrome Therapy
31	May 10	Atherosclerosis	EXAM 3: Atherosclerosis (**12:25** pm)

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