

Lecture Schedule

PHRM 836 - FALL 2016

12:30 to 1:20 pm Lilly Hall of Life Sciences G126

Instructor	Date	Day	Special Event	Lecture Topic
	Aug. 23	Tues	No class: Orientation	
Post	Aug. 25	Thur		Protein structure-function relationship: recognition (immunoglobulin), catalysis (serine proteases)
Post	Aug. 30	Tues		Protein structure-function relationship: allostery (hemoglobin vs myoglobin)
Post	Sept. 1	Thur	Quiz 1	Enzyme catalysis: structural basis and energetics of transition state stabilization, substrate recognition; coenzymes
Post	Sept. 6	Tues		Regulation of enzyme activity and metabolic pathways
Post	Sept. 8	Thur		Therapeutic targeting of proteins I: enzyme inhibition and selectivity
Post	Sept. 13	Tues	Quiz 2	Therapeutic targeting of proteins II: protein applications
Post	Sept. 15	Thur		Cytochrome P450 and nitric oxide synthases
Post & Ashendel	Sept. 20	Tues	No class	
Post & Ashendel	Sept. 20	Tues	Exam I 8:00-9:00pm Lilly 1-105	
Ashendel	Sept. 22	Thur		Nucleic Acid Structure
Ashendel	Sept. 27	Tues		Nucleic Acid Structure
Post	Sept. 29	Thur		Transcription factor-DNA interactions
Post	Oct. 4	Tues	Quiz 3	Membrane transporters
Ashendel	Oct. 6	Thur		Signal transduction
	Oct. 11	Tues	No class - Fall Break	
Ashendel	Oct. 13	Thur		Signal transduction
Ashendel	Oct. 18	Tues	Quiz 4	DNA replication, repair, and recombination
Post & Ashendel	Oct. 20	Thur	No class – help session	
Post & Ashendel	Oct. 24	Mon	Exam II 6:30-7:30pm Lilly 1-105	
Ashendel	Oct. 25	Tues		Transcription and post-transcription
Ashendel	Oct. 27	Thur		Transcription and post-transcription
Ashendel	Nov. 1	Tues		Translation and Post-translation; Applications in biotechnology
Ashendel	Nov. 3	Thur	Quiz 5	Advanced Carbohydrate Metabolism: Diseases and metabolism related health issues
Ashendel	Nov. 8	Tues		Advanced Lipid metabolism I – Fatty acid and Triglycerides: absorption, distribution, and regulation of metabolism
Ashendel	Nov. 10	Thur		Advanced Lipid metabolism I – Fatty acid and Triglycerides: drugs and disorders
Ashendel	Nov. 15	Tues		Advanced Lipid metabolism II – Cholesterol: transport, metabolism, and excretion; drugs and disorders
Ashendel	Nov. 17	Thur	Quiz 6	Advanced Amino Acid metabolism: One carbon metabolism, relationship to certain vitamin deficiencies, basic clinical elements (N balance, essential amino acids and nutritional protein quality, diseases, creatine and creatinine)
Ashendel	Nov. 22	Tues		Advanced Amino Acid metabolism: Specific pathways and disorders; clinical situations and protein nutrition management
Ashendel	Nov. 24	Thur	No class – Thanksgiving Holiday	
Ashendel	Nov. 29	Tues		Heme and iron metabolism and disorders
	Dec. 1	Thur	Quiz 7	Advanced Nucleotide metabolism: Disorders and drugs
Ashendel	Dec. 6	Tues		Metabolic Interrelationships: basic macro-nutrition; BMR and activity; obesity; appetite and satiety; feed-starve cycle
Ashendel	Dec. 8	Thur		Metabolic Interrelationships: metabolic syndrome, regulatory pathways, diabetes, and drugs
Ashendel	Dec. 13	Tues	Exam III 7:00 to 9:00 pm Lilly 1-105	