Chemistry, Structure, and Therapeutic Applications of Biomolecules Schedule Spring Semester 2015 Tuesday & Thursday $9{:}00~am-10{:}20~am$

Course No: 6012 Course Director: Dr. Paul R Rosevear

Textbook:

Session Number	Day	Date	Topic	Chapter	Instructor
	Tu	1-13-	Standard and Dagmonting of Water all		
1	1 u	1-13-	Structure and Properties of Water, pH,		
2	Th	1-15-	Acid-Base Equilibria, Gibbs Free Energy Molecular Forces		
2	111	1-13-	Molecular Forces		
3	т.,	1-20-	Chamistry of Amina Asida		
3	Tu		Chemistry of Amino Acids		
4	TPI	15	D (' C) (M 1 1 E		
4	Th	1-22-	Protein Structure: Molecular Forces		
_	<u> </u>	15	Insulin Structure/Function		
5	Tu	1-27-	Quaternary Structure/Allosterism		
		15			
6	Th	1-29-	Natively Disordered Proteins		
		15			
7	Tu	2-3-15	Enzyme-Diversity		
8	Th	2-5-15	Exam		
9	Tu	2-10-	Chemical Catalysis: Hammond Postulate		
		15	& Transition State Theory		
10	Th	2-12-	Principles of Catalysis		
		15	ı ,		
11	Tu	2-17-	Kinetic Isotope Effects & Steady State		
		15	Kinetics/ Multisubstate Systems		
12	Th	2-19-	Enzyme Rate Constants & pH		
		15	Dependence of Enzyme Reactions		
13	Tu	2-24-	Sterochemistry of Enzyme Reactions		
		15			
14	Th	2-26-	Dehydogenases/Proteases		
1	111	15	Benj degendses, 11etedses		
15	Tu	3-3-15	Ribonuclease/Lysozyme/Triosephosphate		
13	1 4	3 3 13	Isomerase		
16	Th	3-5-15	Enzyme - Drug Interactions		
17	Tu	3-10-	Exam		
1/	l I u	15	Evalli		
18	Th	3-12-	Carbohydrata Chamistry Pr		
10	1 11	3-12- 15	Carbohydrate Chemistry &		
10	T		Sterochemistry		
19	Tu	3-17-	Spring Break		
20	TC1	15	a · 5 · 1		
20	Th	3-19-	Spring Break		
	<u> </u>	15			
21	Tu	3-24-	Carbohydrate Structure &Conformation		

		15		
22	Th	3-26-	Protein – Carbohydrate Interactions	
		15	·	
23	Tu	3-31-	Lipids	
		15		
24	Th	4-2-15	Lipid – Protein Interactions	
25	Tu	4-7-15	Chemistry and Structure of RNA and	
			DNA	
26	Th	4-9-15	Tertiary Structure in Nucleic Acids	
27	Tu	4-14-	Protein-Nucleic Acid Interactions	
		15		
28	Th	4-16-	Nucleic Acid - Drug Interactions	
		15		
29	Tu	4-21-	Protein - DNA - Drug Interactions	
		15		
30	Th	4-23-	Review	
		15		
31		TBD	Exam Week	