

**Bio 5319 Molecular Foundations of Medicine**  
**Fall 2009**  
**Tuesdays and Thursdays, 8:30 – 10:00 a.m.**  
**Moore Auditorium**

Lecture Number	Date	Topic	Lecturer	Reading
I Tu	Aug 18	Protein Structure	Pike	Berg 2
II Th	Aug 20	Enzyme Kinetics	Pike	Berg 8
III Tu	Aug 25	Enzyme Kinetics/Allostery	Pike	Berg 10
IV Th	Aug 27	Hemoglobinopathies- small group work 302, 303 or 304 FLTC	Pike	Berg 7
V Tu	Sep 1	Systemic Glucose Homeostasis	Pike	Berg 27
VI Th	Sep 3	G proteins	Pike	Berg 14
VII Tu	Sep 8	Receptor tyrosine kinases	Pike	Berg 14 Lodish 22
VIII Th	Sep 10	Quiz 1 – in class/small group work 302, 303, or 304 FLTC	Pike	
IX Tu	Sep 15	Glycolysis	Pike	Berg 16
X Th	Sep 17	Gluconeogenesis/Glucose sensing	Pike	Berg 16 Berg 20
XI Tu	Sep 22	TCA cycle	Pike	Berg 17
XII Th	Sep 24	Fats- small group work 302, 303, or 304 FLTC	Pike	Lodish 5 Berg 12,26
XIII Tu	Sep 29	$\beta$ -Oxidation of Fatty Acids	Pike	Berg 22
XIV Th	Oct 1	Structure/Function of Mitochondria: Cardiomyopathy and aging	Lehman	Berg 18 Lodish 14
XV Tu	Oct 6	Nucleotide Metabolism	Pike	Berg 25
XVI Th	Oct 8	Quiz 2 – in class/small group work 302, 303, or 304 FLTC	Pike	
Monday	Oct 12	<b>MIDTERM EXAM 9 am– 12 noon</b>		
XVII Tu	Oct 20	Transcription	Majors	Berg 29,31 Lodish 10,11

XVIII Th	Oct 22	Translation	Majors	Berg 30
XIX Tu	Oct 27	Biosynthesis and processing of membrane proteins	Sadler	Lodish 17
XX Th	Oct 29	Folates and B12	Pike	Berg 24
XXI Tu	Nov 3	vonWillebrand disease – small group work 302, 303, or 304 FLTC	Sadler	Lodish 17
XXII Th	Nov 5	Lysosomes and proteosomes	Stahl	Lodish 17
XXIII Tu	Nov 10	Endocytosis	Stahl	Lodish 17
XXIV Th	Nov 12	Microtubule Motors and Movements	Hodzic	Lodish 19 Berg 34
XXV Tu	Nov 17	Cell-Cell and Cell-Matrix Interactions	Frazier	Lodish 22
Th	Nov 19	Quiz 3 – in class/small group work 302, 303, or 304 FLTC		
XXVI Tu	Nov 24	Apoptosis	Weber	Lodish 24
XXVII Th	Nov 26	Thanksgiving break		
XXVIII Tu	Dec 1	Cell Cycle	Weber	Lodish 13
XXIX Th	Dec 3	Oncogenes and tumor suppressors	Weber	Lodish 23
XXX Tu	Dec 8	DNA replication and repair	Burgers	Berg 28
XXXI Th	Dec. 10	DNA replication and repair-small group work 302, 303, or 304 FLTC	Burgers	
Mon	Dec. 14	<b>FINAL EXAM 9 am-12 noon</b>		