

VIII. LECTURE SCHEDULE (Biomolecular Chemistry 704 - 2009)

<u>Lecture</u>	<u>Date</u>	<u>Day</u>	<u>Title/Content</u>	<u>Lecturer</u>
1	Aug. 24	M	Introduction/Protein structure 1. (9:10 AM)	J. Keck
2	25	T	Protein structure 2. (11:10 AM)	J. Keck
3	26	W	Enzyme kinetics 1.	J. Keck
4	27	R	Enzyme kinetics 2.	J. Keck
5	28	F	Enzyme regulation. (10:10 AM)	J. Keck
	28	F	Enzyme kinetics PBE intro. (11:10 AM)	J. Keck
6	31	[§] M*	Thermodynamics.	J. Keck
	Sept. 01	T*	<i>No Lecture</i>	
7	02	W*	Protein folding & disease.	J. Keck
8	03	R*	Antibodies & collagen.	J. Keck
9	04	F*	Myoglobin & hemoglobin.	J. Keck
	07	M	Labor Day Holiday.	
	08	T*	<i>No Lecture</i>	
10	09	W*	Proteolytic enzymes & blood clotting.	J. Keck
11	10	R*	Motor proteins.	J. Keck
12	11	F*	Enzyme/drug interactions.	J. Keck
13	14	[§] M	Proteomics.	J. Keck
14	15	T	Metabolism-energetics & overview.	P. Kiley
15	16	W	Glucose transport & glycolysis.	P. Kiley
16	17	R	Pyruvate & ethanol metabolism.	P. Kiley
17	18	F	TCA cycle.	P. Kiley

*Indicates afternoon PBE.

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18	21	§M	Electron transport & oxidative phosphorylation.	P. Kiley
19	22	T	Regulation of glucose oxidation.	P. Kiley
20	23	W	Oxidative stress/reactive oxygen species. (9:10 AM)	P. Kiley
21	24	R	Oxidative stress & disease.	P. Kiley
	25	F	<i>Review 10:45AM-12:00 PM</i>	
	29	T	Biomolecular Chemistry Exam 1 10:15 -12:15	J.Keck/P. Kiley
22	Oct. 05	M	Glycogen metabolism & regulation.	P. Kiley
23	06	T	Metabolism of dietary sugars.	P. Kiley
	07	W	<i>Clinical Correlation – galactosemia (Dr. G. Rice).</i>	P. Kiley
24	08	F	Fuel utilization during feed/fast cycle.	R. Fillingame
25	09	F	Gluconeogenesis.	R. Fillingame
26	12	§M*	Lipolysis & fatty acid oxidation.	R. Fillingame
27	13	T*	Ketone bodies & fat catabolism.	R. Fillingame
	14	W*	<i>No lecture</i>	
28	15	R*	Regulation metabolism during exercise. (10:10 AM)	R. Fillingame
29	15	R*	Fatty acid synthesis & lipogenesis. (11:10 AM)	R. Fillingame
30	16	F*	Triglyceride transport & storage.	R. Fillingame
31	19	§M*	Cholesterol metabolism.	R. Fillingame
32	20	T*	Integration of cholesterol & lipoprotein metabolism.	R. Fillingame
33	21	W*	Metabolic regulation in the fed state.	R. Fillingame
34	22	R*	Metabolic regulation in the fasted state.	R. Fillingame
	23	F*	<i>Clinical Correlation - Lipoproteins, diet and cardiovascular risk (Dr. P. McBride).</i>	R. Fillingame

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35	26	§M*	Protein & amino acid metabolism.	R. Fillingame
	Oct 27	T*	<i>No lecture</i>	
36	28	W*	Amino acid catabolism.	R. Fillingame
37	29	R*	Vitamin B12 and folate metabolism. (10:10 AM)	R. Fillingame
	29	R*	Review blood glucose homeostasis; (11:10 AM) <i>Clinical correlation – Hypoglycemia (Dr. M. MacDonald).</i>	R. Fillingame
	30	F*	<i>No Lecture</i>	
38	Nov. 02	§M	Kidney, electrolyte & H ⁺ balance.	R. Fillingame
39	03	T	Metabolic disturbances of H ⁺ balance.	R. Fillingame
40	04	W	Metabolic adaptation to starvation.	R. Fillingame
	05 & 06	R & F	<i>No Lecture</i>	
	10	T	<i>Review 1:00-2:15 PM</i>	
	11	W	Biomolecular Chemistry Exam 2 1:00-3:00 PM	R. Fillingame
41	16	M	General principles of hormones.	P. Bertics
42	17	T	Pancreatic hormones-insulin.	P. Bertics
	18	W	<i>No Lecture</i>	
43	19	R	Pancreatic hormones-glucagon.	P. Bertics
44	20	F	Adrenal hormones-adrenaline and cortisol.	P. Bertics
45	23	§M	Hormonal control of metabolism/diabetes.	P. Bertics
46	24	T	Hypothalamic-releasing factors and posterior pituitary hormones.	P. Bertics
47	25	W	Water and electrolyte hormones & regulation.	P. Bertics
	26, 27	R, F	Thanksgiving holidays.	
48	30	M*	Anterior pituitary hormones 1.	P. Bertics

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49	Dec. 01	T*	Anterior pituitary hormones 2.	P. Bertics
	02	W*	<i>Clinical correlation - Diabetes mellitus (Dr. M. MacDonald)</i>	
50	03	R*	Steroid hormone biosynthesis & regulation.	P. Bertics
51	04	F*	Corticosteroid hormones.	P. Bertics
52	07	§M*	Gonadal steroid hormones.	P. Bertics
53	08	T*	Calcium regulation.	P. Bertics
54	09	W*	Thyroid hormones.	P. Bertics
	10	R*	<i>Clinical correlation - osteoporosis & kidney failure (Dr. H. DeLuca)</i>	
	11	F*	<i>No Lecture</i>	
	16	W	<i>Review 2:30-4:00 PM</i>	
	17	R	Biomolecular Chemistry Exam 3 1:00-3:00 PM	P. Bertics