

Molecular Mechanisms of Signal Transduction GPLS 616 (CRN 93591)
 Fall 2007, Tuesdays and Thursdays, 9:00 - 10:30 am
 Bressler Research Building 1-008

Lecture Topic	Dates	Lecturer
1. Polypeptide growth factor signaling via tyrosine kinase receptors	Aug. 28, 30	Qiu
2. The Ras/MAP kinase intracellular signaling cascade	Sept. 4, 6	Shapiro
3. TGF- β family signaling via serine/threonine kinase receptors and SMADs	Sep.11, 13	Zhan
4. Cytokine signaling 1: Jak/Stat pathway	Sep. 18, 20	Keegan
5. Cytokine signaling 2: TRAFs/NF- κ B pathway	Sep. 25, 27	Winkles
6. Host defense 1: Toll-like receptor signaling	Oct. 2, 4	Medvedev
7. Host defense 2: T cell antigen receptor signaling	Oct. 9, 11	Williams
Exam 1 (Lectures 1-7)	Oct. 16 or 18, your choice!	
8. G protein-coupled receptors	Oct. 23, 25	Carbonetti
9. Lipid signaling	Oct. 30, Nov. 1	Rogers
10. Calcium signaling	Nov. 6, 8	Blaustein
11. Integrin "outside-in" and "inside-out" signaling	Nov. 13, 15	Zhang
Thanksgiving Break		
12. Receptor proteolysis and signal transduction	Nov. 27, 29	Strickland
13. Nuclear hormone receptor signaling	Dec. 4, 6	Koos
14. Cell death: Extrinsic and intrinsic signaling pathways	Dec. 11, 13	Martin
Exam 2 (Lectures 8-14)	Dec. 18 or 20, your choice!	