

2025 FUNDAMENTALS OF PHARMACOLOGY 623

Time: Monday, Wednesday, and Thursday, **8:30–9:30 A.M.**

Location: 10-146 Smilow

Date	Time	Lecture Topic
2025-09-03	8:30–9:00 AM	Introduction to the course/logistics
2025-09-04	8:30–9:30 AM	Pharmacokinetics: Volume of Distribution, Clearance, and Half-life (Robinson)
2025-09-08	8:30–9:30 AM	Pharmacokinetics: Absorption and Bioavailability (Robinson)
2025-09-10	8:30–9:30 AM	Pharmacokinetics: Clinical PK and Variability (Robinson)
2025-09-11	8:30–9:30 AM	Pharmacokinetics: PK Modeling and Problem Sets (Robinson)
2025-09-15	8:30–9:30 AM	Pharmacokinetics: Drug Metabolism Phase I (Robinson)
2025-09-17	8:30–9:30 AM	Pharmacokinetics: Drug Metabolism Phase II (Robinson)
2025-09-18	8:30–9:30 AM	Pharmacokinetics: computational pharmacokinetics (Stefanovski)
2025-09-22	8:30–9:30 AM	Introduction to Kinetics and Michaelis-Menten Kinetics (Copeland)
2025-09-24	8:30–9:30 AM	Reversible Enzyme Inhibitors (Copeland)
2025-09-25	8:30–9:30 AM	Special topics: Slow-binding, tight-binding and covalent inhibitors (Copeland)
2025-09-29	8:30–9:30 AM	Paper Discussion (Copeland)
2025-10-01	8:30–9:30 AM	Exam 1 with all materials
2025-10-02	8:30–9:30 AM	Ligand-Receptor Interactions I (Ali)
2025-10-06	8:30–9:30 AM	Ligand-Receptor Interactions II (Ali)
2025-10-08	8:30–9:30 AM	GPCR Pharmacology (Ali)
2025-10-09	8:30–9:30 AM	Paper Discussion on GPCR (Ali)
2025-10-15	8:30–9:30 AM	Ion Channel/Transporters Pharmacology (Moiseenkova-Bell)
2025-10-16	8:30–9:30 AM	Paper Discussion on Transporters (Moiseenkova-Bell)
2025-10-20	8:30–9:30 AM	Lipid Signaling: Arachidonic Acid Metabolites I (Ricciotti)

2025-10-22	8:30–9:30 AM	Lipid Signaling: Arachidonic Acid Metabolites II (Ricciotti)
2025-10-23	8:30–9:30 AM	Paper Discussion on Lipid Signaling (Ricciotti)
2025-10-27	8:30–9:30 AM	RTKs: Oncogenes and Cancer (Diab)
2025-10-29	8:30–9:30 AM	RTKs: Signaling Pathways (Diab)
2025-10-30	8:30–9:30 AM	Paper Discussion on Oncogenes (Diab)
2025-11-03	8:30–9:30 AM	Exam 2 with all materials
2025-11-05	8:30–9:30 AM	Non-traditional Therapeutics (Amatullah)
2025-11-06	8:30–9:30 AM	Pharmacogenetics & Pharmacoeugenetics (Amatullah)
2025-11-10	8:30–9:30 AM	Paper Discussion Pharmacoeugenetics (Amatullah)
2025-11-12	8:30–9:30 AM	Immune System Basics (Song)
2025-11-13	8:30–9:30 AM	Antibody Engineering (Song)
2025-11-17	8:30–9:30 AM	PK/PD of Biologics (Wherry)
2025-11-19	8:30–9:30 AM	Immune Checkpoints (Apostolidis)
2025-11-20	8:30–9:30 AM	Targeted Drug Delivery (Brenner)
2025-11-24	8:30–9:30 AM	Intracellular Delivery Systems (Brenner)
2025-11-24	8:30–9:30 AM	Gene and Cell-Based Therapies (Chung/June)
2025-12-01	8:30–9:30 AM	Antibacterial Therapeutics (Planet)
2025-12-03	8:30–9:30 AM	Antivirals (Cherry)
2025-12-04	8:30–9:30 AM	Antidepressants/Antipsychotics (Berrettini)
2025-12-08	8:30–9:30 AM	Opiates (Berrettini)
2025-12-10	8:30–9:30 AM	Drug Development & Pipeline Strategy (Santiago-Walker)
2025-12-11	8:30–9:30 AM	Exam 3 with all materials