

PHARMACEUTICAL SCIENCES 718-558
Laboratory Techniques in Pharmacology
Fall Semester 2015

Course Goals: The intent of the faculty in this course is to prepare the student so he/she will have a basic understanding of experimental design and data interpretation in a laboratory setting. The students will see the application of these principles across a broad range of experiments *in vivo* and *in vitro*.

Lecture	1:10	Thursday	1116 Rennebohm Hall
Laboratory	2:00	Thursday	2341 Rennebohm Hall

Grading: Individual lab reports will count for 100% of total grade. The content of these reports will be clearly outlined by the individual instructors. Lab reports may be cumulative (combining data from more than one lab). Each instructor will assign lab reports and due dates for their labs.

<u>Grade</u>	<u>Percent</u>
A	93-100
AB	88-92
B	81-87
BC	77-80
C	70-76
D	60-69

Class	Dates	Topic	Instructor
1	9/3	Lab Orientation (Lab equipment training)/Online Ethics	Rosen
2	9/10	- Online Animal Certification - In Class radiation safety training	Rosen
3	9/17	Use of Laboratory Animals/Health and Safety (Room 185 Enzyme Institute)	Oakes/RARC
4	9/24	Detecting/Quantifying Anticonvulsant Activity	Oakes
5	10/1	Lab Introduction and Tissue Culture Techniques	Johnson/Johnson
6	10/8	Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) and Western Blot	Johnson/Johnson
7	10/15	Reverse Transcriptase-Polymerase Chain Reaction (RT-PCR) and Western Blot	Johnson/Johnson
8	10/22	Reporter Gene Assay #1	Johnson/Johnson
9	10/29	Reporter Gene Assay #2	Johnson/Johnson
10	11/5	Data Collection and Interpretation	Johnson/Johnson
11	11/12	Industry Visit Day	Oakes/Niemeyer
12	11/19	CYP2D6 genotyping using PCR-RFLP	Rosen
	11/27	No Class-Thanksgiving Break	
13	12/3	CYP2D6 phenotyping using dextromethorphan	Rosen
14	12/10	Characterizing Neurotransmitter Transporters	Rosen

Faculty List and Teaching Assistant

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Class email: 558 Students 2015 <phmsci558-1-f15@lists.wisc.edu>

Textbook: Recommended text: "Molecular Cell Biology," Lodish et. al., 7th Ed., 2012. --This book should be available at the University Book Store at HSLC and State Street. There will also be one book on reserve at Ebling library. The relevant readings are Chapters 5 and 7 (also the same chapter in the 6th Ed).

Alternatively, the combination of your Biochemistry and Genetics textbooks should also cover the relevant material.