

SYSTEMS PHARMACOLOGY (VETMM 611)

Spring 2006

Tuesdays and Thursdays 9:00-9:50 am C4 129 Veterinary Medical Center

DATE	TOPIC	LECTURER
General Pharmacological Principles		
Tues. Jan 24	1. Drug Handling by the Body I	Fewtrell
Thurs. Jan 26	2. Drug Handling by the Body II	Fewtrell
Tues. Jan 31	3. Drug Transformation	Weiland
Thurs. Feb 2	4. Pharmacokinetics	Weiland
Autonomic Pharmacology		
Tues. Feb 7	5. Peripheral Nervous System Overview	Weiland
Thurs. Feb 9	6. Cholinergic Pharmacology I	Weiland
Tues. Feb 14	7. Cholinergic Pharmacology II	Weiland
Thurs. Feb 16	8. Adrenergic Pharmacology I	Weiland
Tues. Feb 21	9. Adrenergic Pharmacology II	Weiland
CNS Pharmacology		
Thurs. Feb 23	10. CNS overview	Nowak
Tues. Feb 28	11. Inhibitory Amino Acid Receptors/Seizure Disorders	Nowak
Thurs. Mar 2	12. Excitatory Amino Acid Receptors/CNS Plasticity	Nowak
Tues. Mar 7	13. Neurotransmitters in the Pain Pathway/Analgesia	Nowak
Thurs. Mar 9	14. Pharmacology of Addiction: Opiates, Cocaine & Nicotine	Nowak
Tues. Mar 14	15. Dopamine; Motor Disorders and Schizophrenia	Nowak
Thurs. Mar 16	16. Pre-anesthesia and General Anesthesia	Nowak
<i>March 18-26</i>	<i>SPRING BREAK</i>	
Organ Pharmacology		
Tues. Mar 28	17. Cardiovascular Pharmacology I	Gilmour
Thurs. Mar 30	Mid-term Exam (Lectures 1-16) <i>Room C2 539 CPC</i>	
Tues. Apr 4	18. Cardiovascular Pharmacology II	Gilmour
Thurs. Apr 6	19. Endocrine Pharmacology I	Roberson
Tues. Apr 11	20. Endocrine Pharmacology II	Sharp
Thurs. Apr 13	21. Renal Pharmacology	Sharp
Tues. Apr 18	22. Gastric Pharmacology (H ₂ receptors and acid secretion)	Fewtrell
Pharmacology of Allergy, Inflammation, Hemostasis and Atherosclerosis		
Thurs. Apr 20	23. Immediate Hypersensitivity, Histamine and Antihistamines	Fewtrell
Tues. Apr 25	24. Eicosanoids, NSAIDs and Anti-leukotriene drugs	Fewtrell
Thurs. Apr 27	25. Inflammation, Cytokines and Immunosuppressants	Fewtrell
Tues. May 2	26. Thrombosis and Hemostasis	Fewtrell
Thurs. May 4	27. Atherosclerosis and Lipid-lowering Drugs	Fewtrell
Thurs. May 11	Final Exam (Lectures 17-27) <i>Room C2 505 CPC</i>	
Thurs. May 18	Final Essay due (no later than 12 noon)	

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Course Director: Clare Fewtrell (cmf3@cornell.edu)

Textbooks and handouts:

No textbook is required. In addition to lecture notes, most lectures will include recommended reading. There are several textbooks that may be useful for more general information:

**Pharmacology* by Rang, Dale, Ritter & Moore; Churchill Livingstone; 5th edition 2003; ISBN 0443 071454.

**Pharmacology* by Rang, Dale, Ritter & Gardner; Churchill Livingstone; 4th (American) edition 2001; ISBN 0-443-06574-8.

Medical Physiology by Boron & Boulpaep; Saunders 2003; ISBN 0-7216-3256-4.

Goodman and Gilman's The Pharmacological Basis of Therapeutics edited by Hardman, Gilman, & Limbird; McGraw Hill; 10th edition 2001; ISBN 0-07-135469-7.

The Molecular Biology of the Cell by Alberts, Bray, Lewis, Raff, Roberts & Watson; Garland Publishing; 4th edition 2002; ISBN 0-8153-3218-1.

Examinations and Grading:

The final grade for the course will be determined from two exams and a final essay. The exams will be 50-minute, in-class, short-answer, closed-book examinations; the essay will be a take-home question.

1. **The mid-term exam**, on Thursday March 30th, will cover Lectures 1-16 and will be worth **50%** of the final grade. It will take place in Room C2 539 in the Clinical Programs Center (see below for directions).
2. **The final exam**, on Thursday May 11th, will cover Lectures 17-27 and will be worth **35%** of the final grade. It will take place in Room C2 505 in the Clinical Programs Center (directions to be provided later).
3. **The final essay**, selected from a choice of several topics, will be due no later than 12 noon on Thursday May 18th, and will be worth **15%** of the final grade.

Mid-Term Exam Room:

The mid-term exam will be held in **C2 539** in the **Clinical Programs Center (CPC)**, as there is more room to spread out there. To get to this room from the room where the lectures are held in the Vet. Med. Center, go down to the lobby and along the long hallway with the class photos on each side. Turn right at the end, go past the food cart and take the first door on the left into the CPC. Turn right at the hallway and C2 539 will be the second door on the right. If you aren't sure where this is check it out *before* the day of the exam.

Faculty:

Clare Fewtrell	C3 125 VMC	253-3870	cmf3@cornell.edu
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