

PHM 480- Special Topics in Pharmacology: Neurobiology of Disease

Spring 2013, Class time 2:30- 4pm T&TH, see schedule for exceptions

Coordinator: Susan M. Barman, PhD (barman@msu.edu)

Course Assistant: Tania Iqbal (iqbalta1@msu.edu)

Office hours available by appointment

Course Description

This course will investigate the biological basis for disease of the central and peripheral nervous systems. The course includes weekly lectures on specific human nervous system diseases and a biweekly journal club involving discussion of a research paper related to a lecture topic. The course will also emphasize the need for scientists to properly communicate research, both in writing and orally.

Objectives

Students will be able to describe the basic characteristics and current treatments of a number of neurobiological diseases; Students will be able to clearly and concisely communicate their knowledge to scientists as well as to wider audiences.

Student Requirements and Grading

- 1) Attend all sessions and actively participate in journal club discussions (25% of course grade)
- 2) Complete 4 *short writing assignments (5% each, 20% of grade)
- 3) Presentation of own research (25% of grade)
- 4) Complete *term paper assignment (30% of course grade)

*More information will be given concerning each writing assignment throughout the semester.

Class use of ANGEL (angel.msu.edu)

- 1) Generally, lectures will be made available on Angel to download and bring to class. If this is not the case, the lecturer for that session will provide printed notes at the start of class.
- 2) Journal club articles will be placed on Angel the Tuesday before journal club discussion.
- 3) Student assignments should be uploaded to Angel into the Turnitin Dropbox without including identifying information (e.g. name or student number). The system will automatically show this info to faculty (Dr. Barman and Tania Iqbal) when viewing the submission, but the information will not be retained by Turnitin.

Consistent with MSU's efforts to enhance student learning, foster honesty, and maintain integrity in our academic processes, instructors may use a tool called Turnitin to compare a student's work with multiple sources. The tool compares each student's work with an extensive database of prior publication and papers, providing links to possible matches and a 'similarity score'. The tool does not determine whether plagiarism has occurred or not. Instead, the instructor must make a complete assessment and judge the originality of the student's work. All submissions to this course may be checked using this tool.

Additional Resources:

No textbook is required for this course. However, there are a number of books available at the MSU library about scientific writing. Ask Tania for more info.

Students are encouraged to attend the weekly Neuroscience Seminar Series (Thursdays, 12:30- 1:30, Biomedical and Physical Sciences Room 1425)

Tuesday**January 8**

Introduction- Dr. Atchison
(atchiso1@msu.edu)

January 15

Writing Goals- Tania Iqbal
(iqbalta1@msu.edu)

January 22

Chronic Pain- Dr. Barman
(barman@msu.edu)

January 29

Spinal Injury- Dr. Barman
(barman@msu.edu)

February 5

Eating Disorder- Dr. Hayoz
(seb@msu.edu)

February 12

Bipolar Disorders- Dr. Cobbett
(cobbett@msu.edu)

February 19

Neurogenic Hypertension-
Brad Hammond (hammon82@msu.edu)

February 26

Neuromuscular Disease- Dr. Henley
(mcgove14@msu.edu)

Spring Break**March 12**

Memory Disorders- Carmel Martin- Fairey
(Martinf3@msu.edu)

March 19

Anxiety Disorders- Dr. Ragan
(raganch1@msu.edu)

March 26

Stuttering- Jennifer Lampen
(lampenje@msu.edu)

April 2

Hearing Impairment- Dr. Purcell
(epurcell@msu.edu)

April 9

Sleep Disorders- Jennifer Lampen
(lampenje@msu.edu)

April 16

Student Presentations

April 23

Work on your paper

Thursday**January 24**

Journal Club

February 7

Journal Club

February 21

Journal Club

Spring Break**March 14**

Journal Club

March 28

Journal Club

April 11

Student Presentations

April 25

Drug Abuse- Elaine Sinclair
(sincla61@msu.edu)

Friday**February 1**

Assignment #1

February 15

Assignment #2

*Reading assignment for
next class

March 1

Assignment #3

Spring Break**March 22**

Assignment #4

Work on presentation
and final paper!

MONDAY, April 29

Final paper