

PSY 607: Optogenetics

Spring 2014

last updated Friday, April 4, 2014

Overview We will review and discuss the latest research, the latest tools, and find out how optogenetics is revolutionizing neuroscience.

Objectives

- To improve skills and gain confidence in reading, presenting, and critically discussing scientific papers.
- To learn about some of the key concepts, techniques, and outstanding questions in the application of optogenetics to systems neuroscience.

Time and Place Wednesdays 2:00–4:00 PM; 217 LISB

Instructor Mike Wehr
wehr@uoregon.edu
office hours: by appointment. 213 LISB.

Readings All course readings will be posted on the course google doc.

Grading

Presentation	75%
Class participation	25%

Format

This course will follow a seminar format. Each day we will discuss a paper. You must read the paper before class. One student will present the paper to the rest of the class. This student will also lead a group discussion of the paper following the formal presentation. Everyone is expected to participate by asking questions both during the presentation and afterwards in the discussion.

Papers:

The papers will be selected by the students. Papers should involve optogenetics or related technology (e.g. pharmacogenetics, genetically encoded calcium sensors, etc.) applied to any research area or scientific question of interest.