

Topics in Neuroscience (NEUS 635)

Fall 2012

Class Meetings:

Thursday, 4:30 –6:00 PM

Room M1443

COURSE DIRECTOR: Stefanie Kaech, BRB 405, 494-3963, kaechs@ohsu.edu

COURSE OBJECTIVES: The aim of the course is to provide practical information on important techniques used in neuroscience research. Speakers are expected to present the basic concepts used in the methodology in question and evaluate challenges and opportunities of the approach. Emphasis should be given to issues that can occur in practice and experimental controls that minimize artefactual interpretations. The course should help students better evaluate the literature, as well as boost the students' competence in assessing the value of the presented technologies for furthering their own research.

LOGISTICS: The course is required for NGP first-year students, and all students are expected to attend each session. Active participation is expected – students should use these lectures to ask questions about technical approaches they are potentially using during their doctoral work. Unexplained absences could result in a grade of NP (no pass).

NEUS 635 Topics in Neuroscience Thu 4:30pm-6pm			
Lecture#		Topic	Speaker
1	9/27/12	Culture systems	Stefanie Kaech
2	10/4/2012	Model systems	Teresa Nicolson
3	10/11/2012	Transgenics and gene targeting in mice	Chris Bond
4	10/18/2012	In vivo experiments using viruses	Jodi McBride
5	10/25/2012	Non-coding regulatory RNA molecules	Lulu Cambronne
6	11/1/2012	Gene expression analysis	Sean Speese
7	11/8/2012	Chemical biology	Michael Cohen
8	11/15/2012	Mouse behavior analysis	Jacob Raber
	11/22/2012	<i>Thanksgiving</i>	
9	11/29/2012	Antibodies	Fred Robinson
10	12/6/2012	Proteomics	Larry David