



NS302 Jan. 3:0

Topics in Molecular and Cellular Neuroscience

Instructor

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Teaching Assistant

Email:

Department: Centre for Neuroscience (CNS)

Course Time: Mon., Wed., Fri., 9:00 - 11 AM

Lecture venue: CNS Lecture Hall (First Floor)

Detailed Course Page:

Announcements

Organizational Meeting will be held on Wednesday, 4 January 2016, 09:30 am
in the CNS Lecture Hall (First floor)

Brief description of the course

This is an advanced graduate reading style course focusing on
developmental neuroscience, molecular and cellular basis of learning
and memory, and molecular and cellular approaches to understanding brain
disorders.

Prerequisites

The prerequisite for this course is successful completion of NS202: Introduction to Neuroscience (3:0) taught
in the Aug. semester

Syllabus

Neuronal development, Glial function in the nervous system, synapse function and physiology, learning and
memory.

Course outcomes

At the end of the course the students will have deeper understanding on a wide area of research in

neuroscience. They will be taught to critically read a scientific paper, assess the technical soundness and the conclusions drawn from the experiments. This will enable them to formulate hypotheses based on scientific data and design experiments to test them.

Grading policy

40% - Critical reading of the scientific papers and ability to explain the experimental approaches and conclusions of the study

30% - Scientific proposal (written part)

30% - Scientific Proposal (Oral part)

Assignments

Resources

Seminal research papers in a broad area of neuroscience will be provided for discussions.