Biology of Memory: Systems and Diseases
NEURL-UA 302 Sec 012, Monday 2-4PM

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The course will present the fundamentals of molecular approaches used to study behavioral responses at a system level. Moreover it will review and discuss the most relevant and contemporary publications in the field.

Prerequisites for this course are NEURL-UA 210 or equivalent background.

Jan 29th
Course goals and structure. Overview of memory systems

Feb 4th
Memory Consolidation: Molecular and system mechanisms in the hippocampus and cortex

Feb 11th
Memory Consolidation and emotional regulation: mechanisms in the amygdala, hippocampus and cortex- stress-related disorders including PTSD

Feb 18th
No Class- President day

Feb 25th
Memory Reconsolidation: mechanisms and functions

March 4th
Memory enhancement: mechanisms and systems- Alzheimer’s disease, ageing

Cycle 1: Memory Consolidation and relative diseases
March 11th
Student-led discussions of original papers

March 18th
No class. Spring recess

March 25th
Group sessions for project proposals

April 1st
Team presentations of project proposals

Cycle 2. Memory reconsolidation and relative diseases
Aril 8th
Student-led discussions of original papers

April 15th
Group sessions for project proposals

April 22
Team presentations of project proposals

Cycle 3. Memory enhancement and relative diseases
April 29
Student-led discussions of original papers

May 6th
Group sessions for project proposals

May 13th
Team presentations of project proposals