

**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 29 <sup>th</sup>	Course goals and structure. Overview of memory systems
Feb 4 <sup>th</sup>	Memory Consolidation: Molecular and system mechanisms in the hippocampus and cortex
Feb 11 <sup>th</sup>	Memory Consolidation and emotional regulation: mechanisms in the amygdala, hippocampus and cortex- stress-related disorders including PTSD
Feb 18 <sup>th</sup>	No Class- President day
Feb 25 <sup>th</sup>	Memory Reconsolidation: mechanisms and functions
March 4 <sup>th</sup>	Memory enhancement: mechanisms and systems- Alzheimer's disease, ageing

**Cycle 1: Memory Consolidation and relative diseases**

March 11 <sup>th</sup>	Student-led discussions of original papers
March 18 <sup>th</sup>	No class. Spring recess
March 25 <sup>th</sup>	Group sessions for project proposals
April 1 <sup>st</sup>	Team presentations of project proposals

**Cycle 2. Memory reconsolidation and relative diseases**

April 8 <sup>th</sup>	Student-led discussions of original papers
April 15 <sup>th</sup>	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 6 <sup>th</sup>	Group sessions for project proposals
May 13 <sup>th</sup>	Team presentations of project proposals