Biology of Memory: Systems and Diseases

Course Director: Cristina M. Alberini Brown 951; 998-7721; ca60@nyu.edu

The course will focus on fundamental literature about the molecular, cellular, and circuit mechanisms that underlie how memories are formed, stored, retrieved, and lost. Moreover it will review and discuss the most relevant and contemporary publications in the field.

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memory consolidation and reconsolidation mechanisms

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

hippocampus and cortex; Recent and remote memories

Feb 11th Memory enhancement: mechanisms and systems- Alzheimer's disease,

ageing

Feb 18th President day-no class

Feb 25th Memory reconsolidation and emotional regulation: mechanisms in the

amygdala, hippocampus and cortex- stress-related disorders including PTSD

March 4th Mechanisms of long-term memory in infancy

March 11th Student-led discussions of original papers

March 18th No class. Spring recess

March 25th Student-led discussion of original paper

April 1st Student-led discussions of original papers

Cycle 1: Memory Consolidation and relative diseases

Aril 8th Group sessions for project proposals

April 15th Team presentations of project proposals

Cycle 2. Memory reconsolidation and relative diseases

April 22th Group sessions for project proposals

April 29th Team presentations of project proposals

Cycle 3. Memory enhancement and relative diseases

May 6st Group sessions for project proposals

May 13th Team presentations of project proposals

May 15th-19th Exam