

INTRODUCTION

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General Course Information:

PSYC G9410.001 BEHAVIORAL NEUROSCIENCE
 W 02:10P-04:00P
 SCHERMERHORN 405

Instructor Information:

Rae Silver
 E-mail: gr@columbia.edu

Schedule of Speakers & Topics

G9410 Neuroscience and Behavior: Views of Transformative & Translational Research

Month	Date	Professor	Title
January	23	Rae Silver Frances Champagne	Introduction to the course Development of the brain
January	30	Frances Champagne	Epigenetics and chromatin remodeling: The inheritance of acquired behavior
February	6	James Curley	Evo-devo: evolutionary insights into human brain development & function
February	13	Russ Romeo	Opportunities and vulnerabilities in adolescent brain
February	20	Student Presentations	Research frontiers - two of YOUR predictions.
February	27	Daphna Shohamy	Reward and Learning: Bridging data from animal, human and modeling studies
March	5	Peter Balsam	The slippery engram: Moving around in the brain
March	12	Don Hood	Noninvasive measurement of human anatomy and physiology: examples of translational research
March	19		Spring break
March	26	Rae Silver	The trajectory from basic research to individualized drug development: Insights from the study of circadian rhythms
April	2	Carl Hart	Role of monoamines in understanding drugs of abuse
April	9	Sarah H. Lisanby	Use of electromagnetic means of modulating brain function to study and treat psychiatric disorders.
April	16	Rene Hen	Neurogenesis in learning and depression.
April	23	Fernando Nottebohm	Neurogenesis and vocal learning
April	30	Donald Pfaff	Mechanisms of Generalized CNS Arousal and the Consequences of their Damage
May	7	Student Presentations	

Course requirements:

Be ready for class! Post a comment, question or criticism about the assigned reading to the DISCUSSION BOARD in course works by 9am of each class day. You might comment on your guesses as to the future promise of this research area.

Starting in March, each class participant will be asked (once) to present their thoughts on the most important ongoing research in two topic areas in Neuroscience and Behavior (one PPT slide/topic). One of these topics can be in the area of your own lab, and the other must be in an unrelated area.