

## Molecular Neuroscience, Fall 2018 (Neurobio 206)

**Instructors:** Dr. Mathew Blurton-Jones, 3014 Gross Hall, 4-5243, [mblurton@uci.edu](mailto:mblurton@uci.edu)  
 Dr. John Guzowski, 108 Bonney Research Lab [john.g@uci.edu](mailto:john.g@uci.edu)  
 Dr. Karina Cramer, 2215 McGaugh Hall, [cramer@uci.edu](mailto:cramer@uci.edu)

**Class times:** 10:30 AM - 12:00 PM, M, W, F - 2246 McGaugh Hall

<b><u>Date:</u></b>	<b><u>Topics:</u></b>	<b><u>Instructor:</u></b>
Sept 28 F	Introduction	Blurton-Jones
Oct 1 M	Manipulating gene expression in the CNS-I	Blurton-Jones
3 W	Manipulating gene expression in the CNS-II	Blurton-Jones
5 F	<i>Discussion</i>	Blurton-Jones
8 M	Protein-protein interactions/Proteomics	Blurton-Jones
10 W	Cell trafficking + Neurological Disorders	Blurton-Jones
12 F	Neurologic Disorders + Review	Blurton-Jones
15 M	Neuronal signaling, gene expression, & synaptic plasticity	Guzowski
17 W	<i>Discussion</i>	Blurton-Jones
19 F	Exam I	Blurton-Jones
22 M	Dendritic spines: Structure and signal transduction / integration	Guzowski
24 W	Mechanisms of synaptic activity-regulated gene transcription	Guzowski
26 F	Epigenetic regulation of neuronal gene expression	Guzowski
29 M	<i>Discussion</i>	Guzowski
31 W	Post-transcriptional regulation of synaptic gene expression	Guzowski
Nov 2 F	<i>NO CLASS: SOCIETY FOR NEUROSCIENCE MEETING</i>	
5 M	<i>NO CLASS: SOCIETY FOR NEUROSCIENCE MEETING</i>	
7 W	<i>NO CLASS: SOCIETY FOR NEUROSCIENCE MEETING</i>	
9 F	Molecular mechanisms of synaptic plasticity and homeostatic scaling	Guzowski
12 M	<i>NO CLASS: VETERAN'S DAY HOLIDAY</i>	
14 W	<i>Discussion</i>	Guzowski
16 F	Exam II	Guzowski
19 M	Introduction; Neural Polarity and Induction	Cramer
21 W	Regionalization	Cramer
23 F	<i>NO CLASS: THANKSGIVING HOLIDAY</i>	
26 M	Neurogenesis and Neuronal Migration	Cramer
28 W	Neuronal Fate Specification	Cramer
30 F	<i>Discussion</i>	Cramer
Dec 3 M	Axon Guidance	Cramer
5 W	Synaptogenesis and synaptic pruning	Cramer
7 F	<i>Discussion</i>	Cramer
11 M	<b>Final Exam (10:30 – 12:30)</b>	Cramer