

2010-2011 Academic Year, Fall Semester

Neurobiology of Brain Disorders

Faculty: Eric Klann, Ph.D.
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Office hours: by appointment

Prerequisites: Students must have taken/are currently taking Cellular and Molecular Neurobiology (V80.0210001) or an equivalent course. Exceptions will be determined by the instructor.

Schedule: All classes will be held in Room 815, Meyer Hall from 9:30-11:30.

Textbook: There is no textbook for this course. The lectures will be based on the primary literature.

Grading: There will be a mid-term exam and final exam. The mid-term will count for 40% and the final exam will count for 60%.

Syllabus:

| Class # | Date | Lecture Topic and Lecturer |
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| 1 | 09/07/10 | Introduction and Behavioral Measures in Mice (Klann) |
| 2 | 09/14/10 | Basics of Cellular and Molecular Basis of Synaptic Plasticity (Klann) |
| 3 | 09/21/10 | Alzheimer's Disease (Klann) |
| 4 | 09/28/10 | Developmental Disorders: Down Syndrome (Hoeffer) |
| 5 | 10/05/10 | Developmental Disorders: Autism (Klann) |
| 6 | 10/12/10 | Developmental Disorders: Fragile X Syndrome (Klann) |
| 7 | 10/19/10 | Mid-term Exam |
| 8 | 10/26/10 | Developmental Disorders: Tuberous Sclerosis (Chevere-Torres) |
| 9 | 11/02/10 | Developmental Disorders: Angelman Syndrome (Klann) |
| 10 | 11/09/10 | Developmental Disorders: Neurofibromatosis type 1, Coffin-Lowry Syndrome, Rubinstein-Taybi Syndrome, Rett Syndrome, Wolcott-Rallison Syndrome (Klann) |

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| 11 | 11/16/10 | Schizophrenia (Klann) |
| 12 | 11/23/10 | Parkinson's Disease (Klann) |
| 13 | 11/30/10 | Drug Addiction (Klann) |
| 14 | 12/07/10 | Depression and Bipolar Disorder (Klann) |