2014-2015 Academic Year, Fall Semester

Neurobiology of Brain Disorders

NEURL-UA 302.001

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 9:00-11:00 on Thursday.

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:
• Introduction and Behavioral Measures in Mice
• Basics of Cellular and Molecular Basis of Synaptic Plasticity
• Alzheimer’s Disease
• Developmental Disorders: Down Syndrome
• Developmental Disorders: Autism
• Developmental Disorders: Fragile X Syndrome
• No Class - Fall Break
• Mid-term Exam
• Developmental Disorders: Tuberous Sclerosis
• Developmental Disorders: Angelman Syndrome
• Developmental Disorders: Neurofibromatosis type 1,
• Coffin-Lowry Syndrome, Rubinstein-Taybi Syndrome,
• Rett Syndrome, Wolcott-Rallison Syndrome
• Schizophrenia
• Parkinson’s Disease
• Drug Addiction
• Depression and Bipolar Disorder