

THE MOLECULAR BASIS OF BEHAVIOR
2nd Term 2008, 10am MWF, 100 Broad bldg.
Kai Zinn [zinn@caltech.edu] & **Paul Patterson** [php@caltech.edu]

Circadian Rhythms, Sleep, Eating

- 1/7 Intro/biological clocks [KZ]
- 1/9 Sleep & narcolepsy [KZ]
- 1/11 Eating: leptins, genetics of obesity, anorexia [KZ]

Sex

- 1/14 Sexual differentiation of the mammalian brain & behavior [PHP]
- 1/16 Hormones and birdsong; maternal behavior; monogamy [PHP]

Social behavior & aggression

- 1/18 Motor control [KZ] QUIZ

- 1/21 Holiday
- 1/23 Genes, serotonin and aggression [PHP]
- 1/25 Olfaction [KZ]

- 1/28 Fear and emotion [David Anderson]

Learning and Memory

- 1/30 Molecular biology of cognition [Alcino Silva]
- 2/1 Student Presentations QUIZ

- 2/4 Proteins involved in learning/synaptic plasticity [KZ]
- 2/6 The hippocampus and memory [Thanos Siapas] *Midterm exam out; due 2/12*
- 2/8 Student Presentations QUIZ

- 2/11 Reward & addiction [KZ]
- 2/13 Neurogenesis in the adult brain [PHP]
- 2/15 Student Presentations QUIZ

- 2/18 Holiday

Mental Illness & Neurodegeneration

- 2/20 Schizophrenia [PHP]
- 2/22 Student Presentations QUIZ

- 2/25 Student Presentations
- 2/27 Parkinson's and Huntington's diseases [PHP]
- 2/29 Student Presentations QUIZ

- 3/3 Alzheimer's disease [PHP]
- 3/5 Student Presentations QUIZ
- 3/7 Prion diseases [KZ]

- 3/10 Complex genetics of mental illness [KZ]
- 3/12 Student Presentations QUIZ *Final exam out; due 3/19 noon*

TAs: Maria Papadopoulou [papadopo@caltech.edu] & Liming Wang [lmwang@caltech.edu]