

## **Required Readings for Psy 341K Neurobiology of Behavior**

**Dr. Alcantara, Fall 2006**

### **Basic Review of Anatomy, Synaptic Communication, Neuropharmacology**

*Foundations of Physiological Psychology* (Chapters 2-4), N. R. Carlson

### **Basal Ganglia Review Chapters**

*Microcircuitry of the Neostriatum* (Chapter 1) in *Molecular and Cellular Mechanisms of Neostriatal Function*, Ariano and Surmeier

*Basal Ganglia* (Chapter 34) in *Fundamental Neuroscience*, Zigmond et al.

*Basal Ganglia* (Chapter 43) in *Principles of Neural Science*, E.R. Kandel, J.H. Schwartz and T.M. Jessell

### **Basal Ganglia Anatomy, Physiology and Neurochemistry**

*Striatal Interneurons: Chemical, Physiological and Morphological Characterization* (1995) Kawaguchi Y et al., *TINS*, 18:527-535

*Physiological, Morphological, and Histochemical Characterization of Three Classes of Interneurons in Rat Neostriatum* (1993) Kawaguchi Y, *The Journal of Neuroscience*, 13:4908-4923

### **Basal Ganglia Learning and Memory**

*Responses of Tonicly Active Neurons in the Primate's Striatum Undergo Systematic Changes During Behavioral Sensorimotor Conditioning* (1994) Aosaki T. Tsubokawa H. Ishida A. Watanabe K. Graybiel AM. Kimura, *Journal of Neuroscience*, 14(6):3969-84

### **Review Article on Addiction**

*Neural Mechanisms of Addiction: The Role of Reward-Related Learning and Memory* (2006) Hyman S.E., Malenka R. C., Nestler E.J., *Annual Review of Neuroscience* 29:565-598

\*Copies of all of these readings are provided in class