

Study Questions for lecture 4 assigned readings.

From Rosenzweig pp. 25-56:

1. Give a brief account of the process by which information is transmitted from the presynaptic cell to the postsynaptic cell. What change occurs in the postsynaptic cell?
2. What are the two parts of the neuron doctrine?
3. Write a brief description of the anatomy of the autonomic nervous system, using the following terms in your answer: autonomic ganglia, preganglionic neurons, postganglionic neurons, sympathetic nervous system, sympathetic chain, parasympathetic nervous system.
4. The hypothalamus, a collection of small nuclei, is implicated in numerous important, basic functions. Name some of these.
5. Name the parts of the basal ganglia and a major function of this system,
6. Describe the architecture and basic functions of the cerebellum and pons.
7. What is meant by a "cortical column"? Describe the size and shape of a column; what is its functional significance?
8. How many layers does the cortex have, and how do the layers vary from one another?
9. Give an outline of modern techniques for producing images of a living person's brain and the particular advantages each technique offers.