Cerebellum

Match the cells of the cerebellar cortex with the location of their cell bodies:

1. Golgi neurons
2. granular layer
3. purkinje layer
4. molecular layer
5. Basket neurons
6. Purkinje neurons
7. Stellate neurons
8. Granule neurons
9. Which of the following is the only output neuron of the cerebellar cortex?
   1. Golgi
   2. Basket
   3. Purkinje
   4. Stellate
   5. Granule

Match the following structures with their synaptic functions: (some answers may require more than one answer and some answers may be used more than once)

1. inhibit purkinje cells
2. Stellate cells
3. Purkinje cells
4. Granule cells
5. Basket cells
6. Excite purkinje cells
7. Always inhibitory to other cells
8. The only excitatory cells
9. Sensitive to alcohol intoxication
10. The only efferent cells of the cerebellum
11. Mossy fibers are AFFERENT/EFFERENT cerebellar axons. They INHIBIT/EXCITE deep cerebellar nuclei and \_\_\_\_\_\_\_\_\_\_\_\_ cells, which excite \_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells.
12. Climbing fibers are AFFERENT/EFFERENT cerebellar axons. They originate in inferior \_\_\_\_\_\_\_\_\_\_\_\_ nucleus. They INHIBIT/EXCITE deep cerebellar nuclei and \_\_\_\_\_\_\_\_\_\_\_\_ cells.
13. Which cerebellar cell gives rise to efferent axons?

Match the lobes of the cerebellum with their main sources of input

1. Input from vestibular apparatus
2. Input from limbs (via spinal cord)
3. Input from cerebral cortex
4. Anterior lobe
5. Posterior lobe
6. Flocculonodular lobe
7. What is the correct order of cerebellar nuclui from lateral to medial, biggest to smallest?
8. Which 2 deep cerebellar nuclei make up the interposed nuclei?