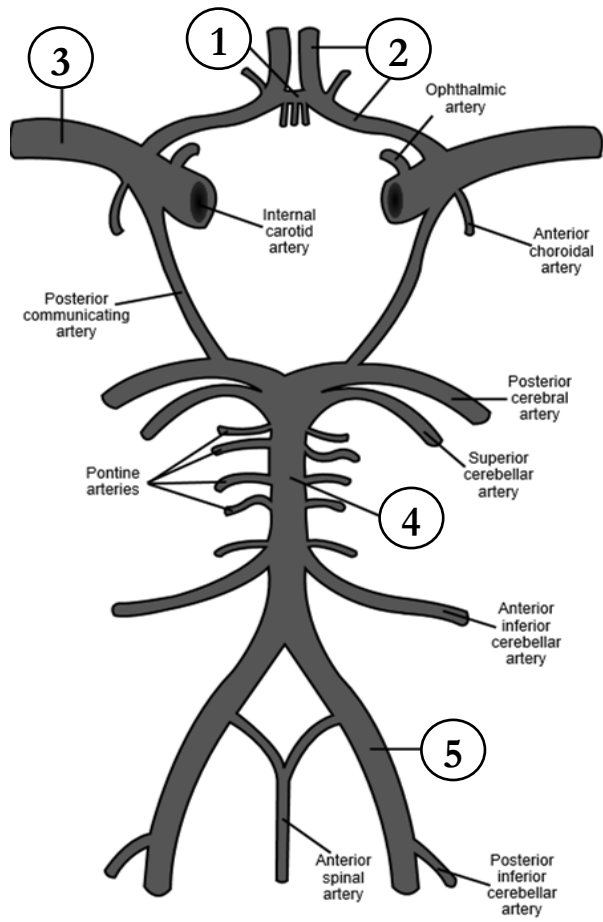


Health Education England
NW School of Psychiatry

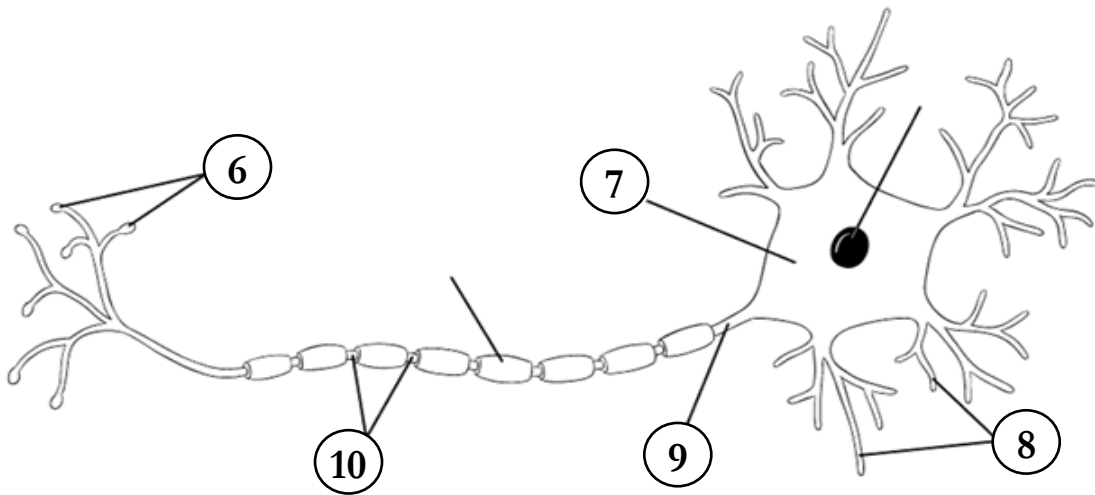
Basic Neurosciences

Workbook



Identify the structure indicated by the numbers:

- 1.
- 2.
- 3.
- 4.
- 5.



- 6.
- 7.
- 8.
- 9.

10.

Complete the following tables:

Basal Ganglia

Structures that form the basal ganglia:	Key neurotransmitters in the basal ganglia?
Conditions associated with basal ganglia pathology:	Functions of the basal ganglia:

Amygdala

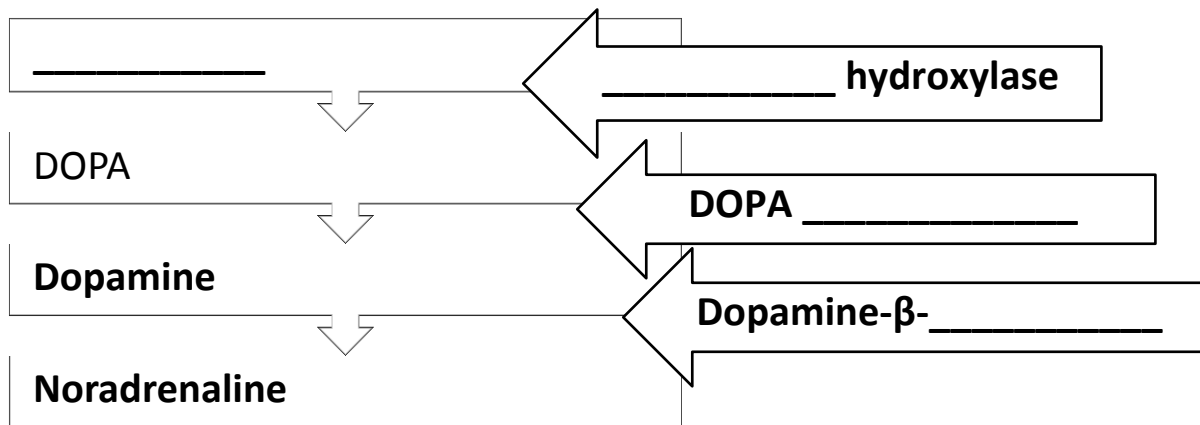
What is the role of the amygdala?

Where is the amygdala located?

What structures lie near the amygdala?

What conditions/disorders are thought to be associated with the amygdalae?

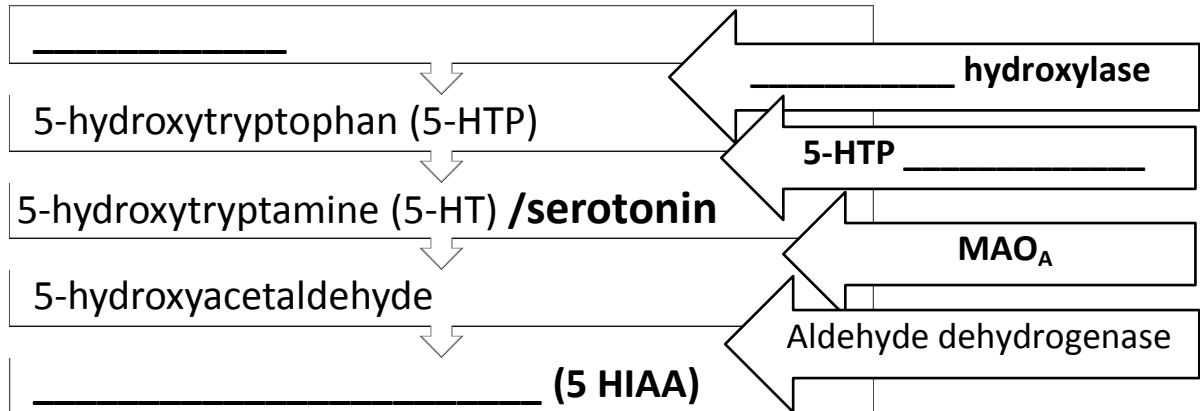
Fill in the blanks in the following neurotransmitter pathway:



The breakdown product of dopamine is:

1. Homovanillic acid (HVA)

Fill in the blanks in the following neurotransmitter pathway:



The breakdown products of noradrenaline are:

1. MHPG – 3 methoxy-4-hydroxyphenylglycol (CNS)
2. VMA – vanillylmandelic acid (peripherally)

What is the main types of pathology/proteins found in the following disorders:

bvFTD

Alzheimer's disease

Dementia with Lewy Bodies

What are the main genes AND chromosomes known to be involved in the following disorders?

Alzheimer's disease

Vascular dementia