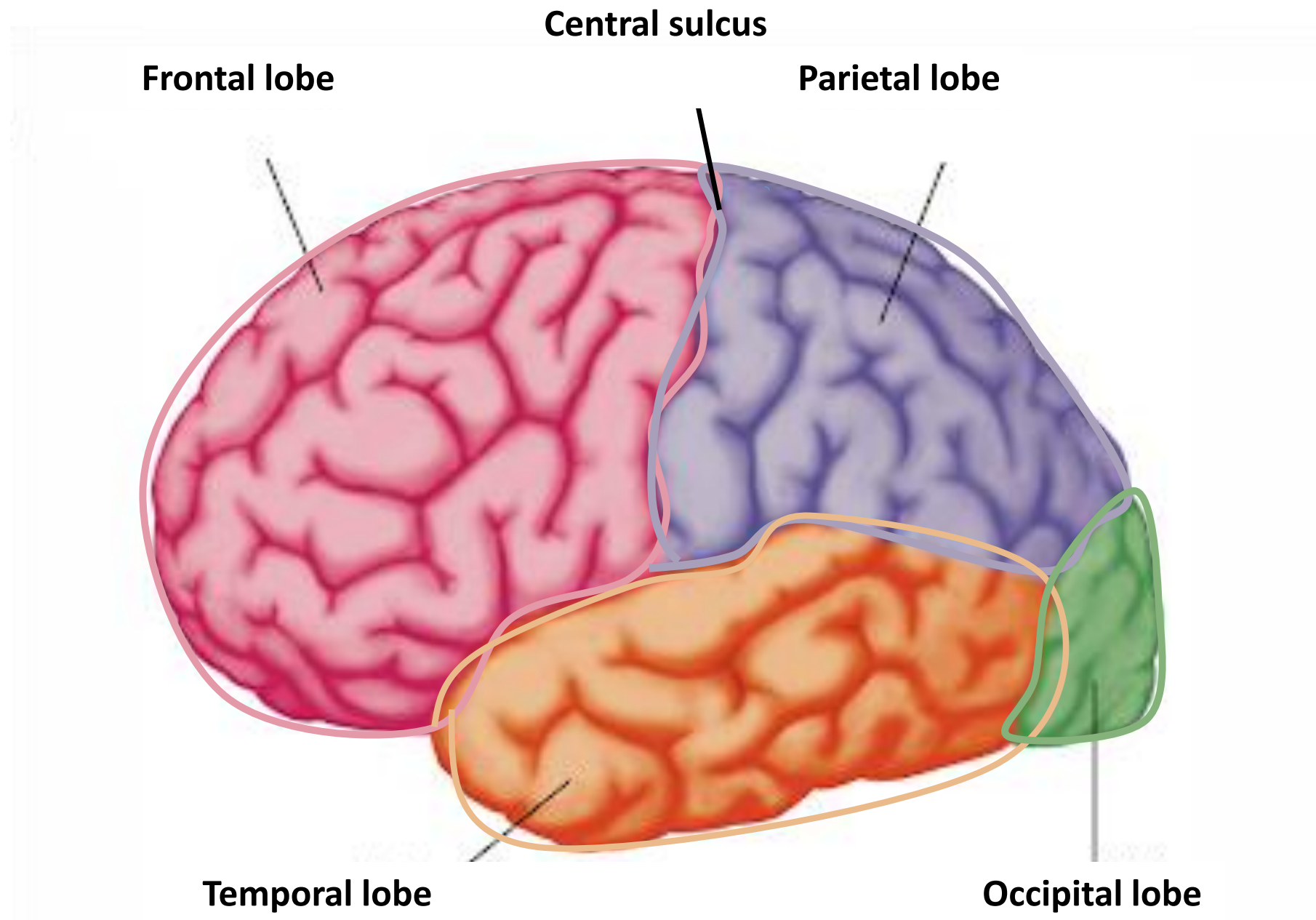
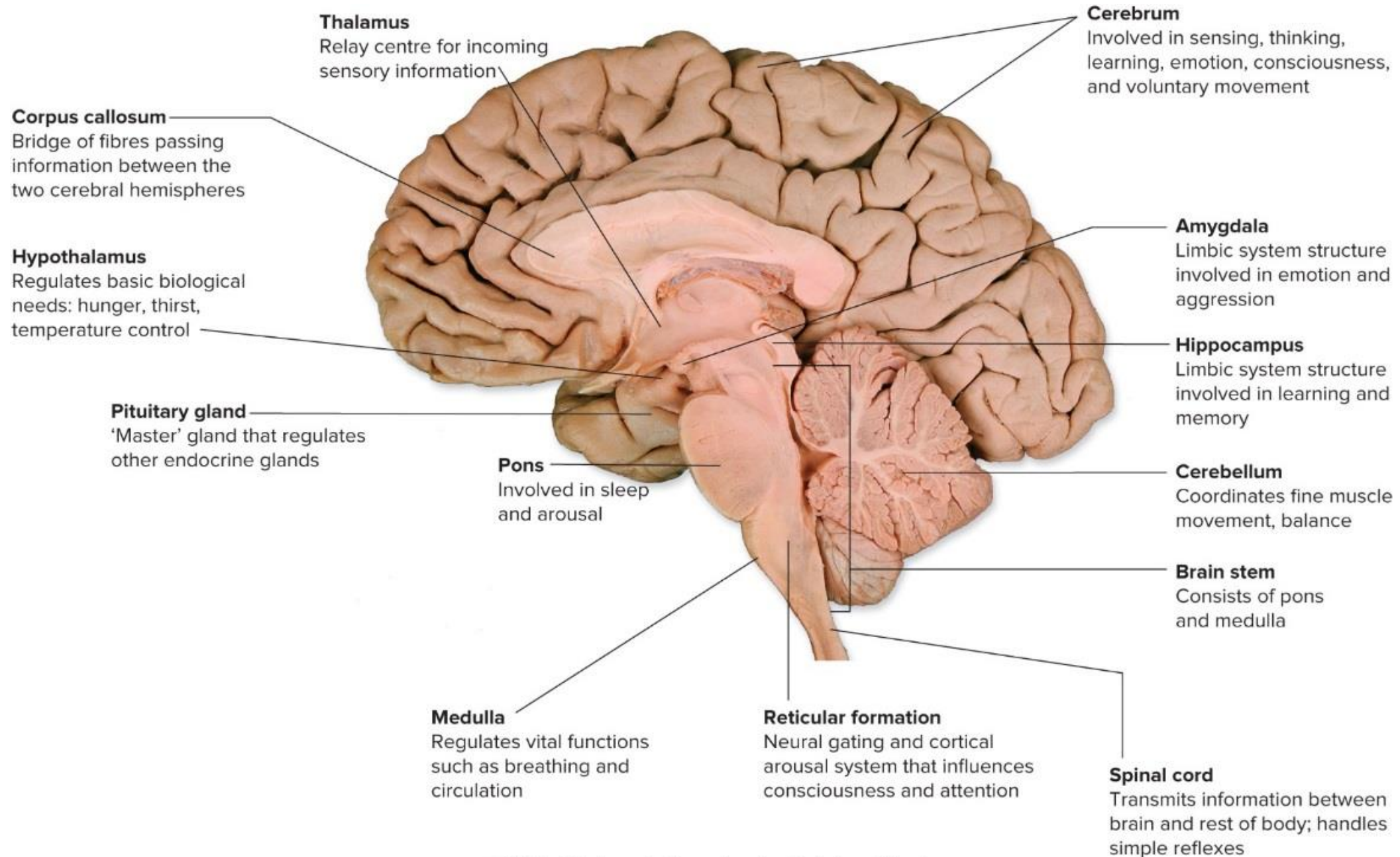


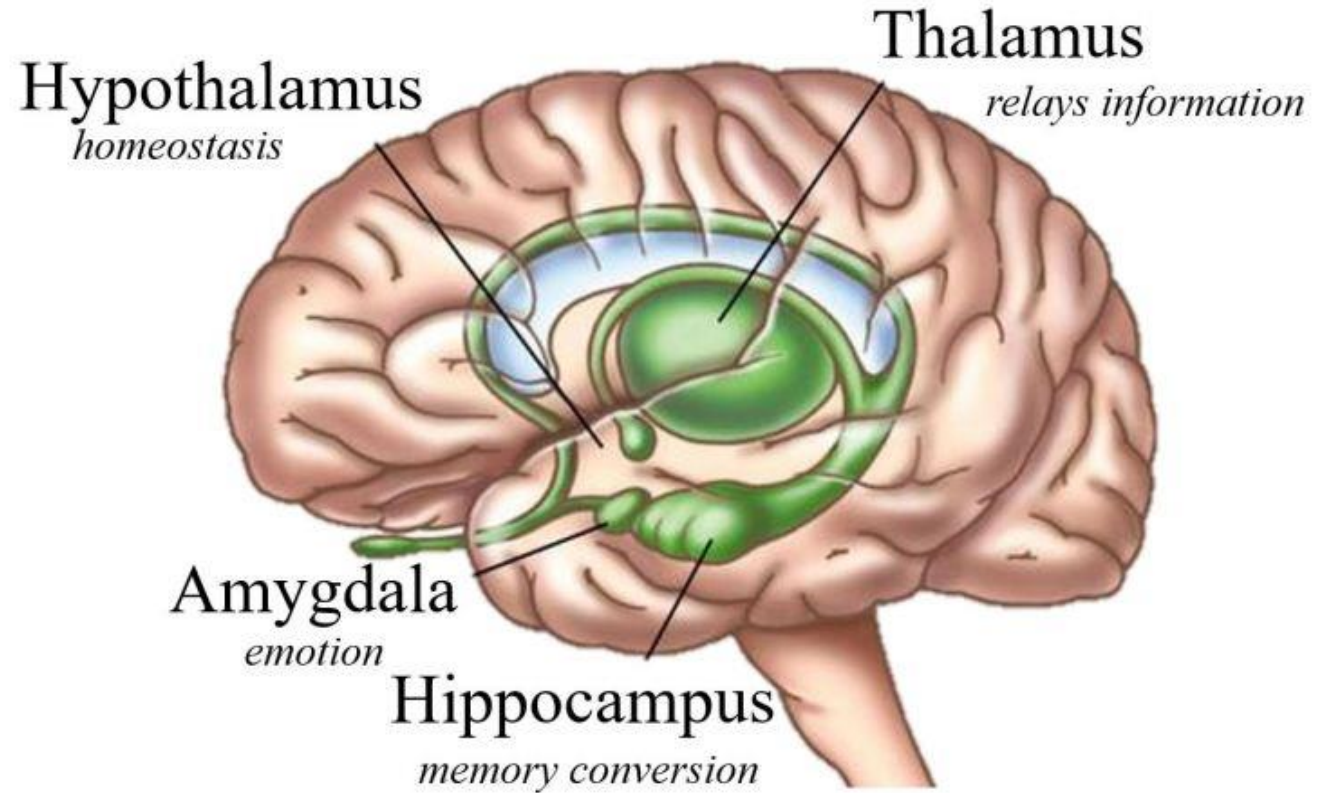
# The Limbic System







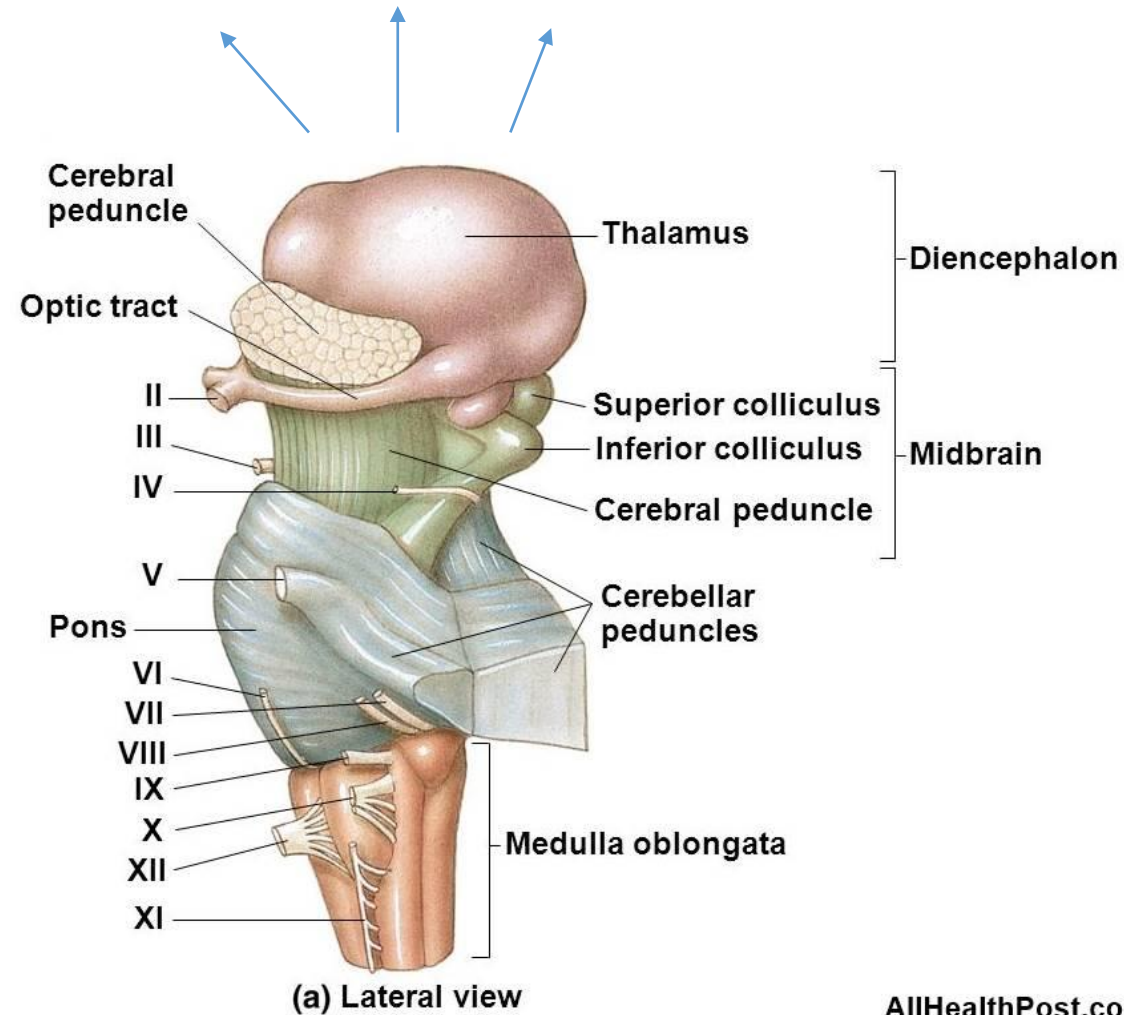
# The Limbic system



# Thalamus

The brains relay station

Different parts of the cerebral cortex





# Hippocampus

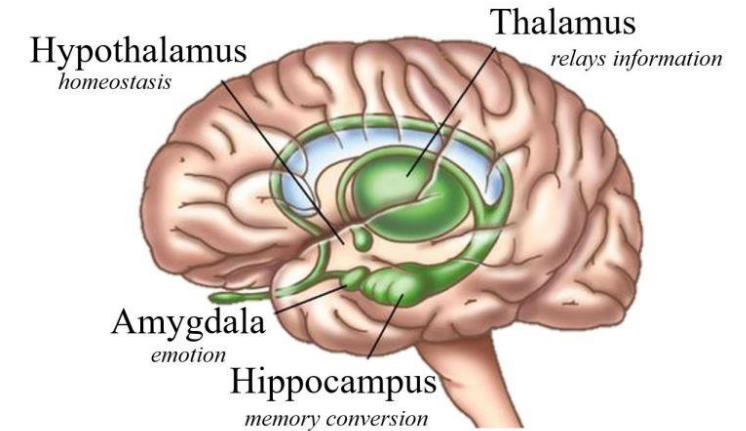
There is a hippocampus in the left and right temporal lobe

- Translated from Greek it means seahorse, presumably given this name because it looks like one

It is involved in learning associations between things

- If damaged you have serious problems learning
- The famous case of HM: bilateral hippocampus damage
  - Global amnesia – couldn't learn and recall new conscious memories
  - Did retain many motor memories
  - Could learn procedural memories
- KC (Kent Cochrane) – similar damage. Almost perfect semantic knowledge, but no episodic memory

## The Limbic System



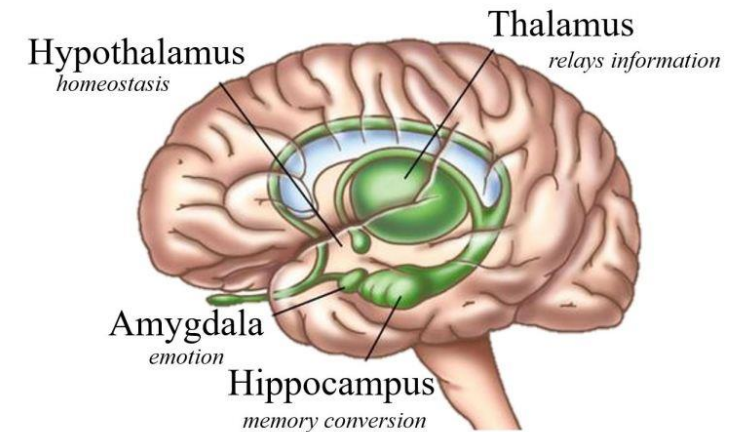
# Amygdala

The amygdala is a small almond shaped structure – there is left and right amygdala located within the temporal lobes

It is one of the emotional centres of the brain

- Anger, fear, and anxiety
- Damage:
  - Kluver-Bucy syndrome
    - Lose fear and inhibitions
    - Inappropriate sexual behaviours and social functions
    - Stick things in their mouths a lot
- Take inappropriate risks – weaker loss aversion
  - Possibly better at acting based on pure statistical outcomes

## The Limbic System



# Hypothalamus and pituitary gland

## The Limbic System

### Two main functions

- Hormones
- Homeostasis

