- Underactive: ADD
- Subdivided into 3 main parts
  - Caudate nucleus: tail
  - Putamen: shell
    - Together are known as striatum
  - Globus pallidus: pale globe
- Functional units: work with the basal ganglia, not actual basal ganglia
  - Subthalamic nucleus
  - Substantia nigra “black substance”
    - Concentration of dopaminergic neurons
- Limbic system
  - First identified for its role in sexuality
  - Emotional control and a key site of learning and memory
  - Principal structures:
    - Cingulate cortex:
      - Emotional processing and memory
    - Amygdala
      - Fear, aggression, emotional memories, and decision making
    - Hippocampus
      - Site of learning and memory
        - Particularly spatial navigation and consolidation of short to long term memory
- Brainstem
  - Control of motor function (both voluntary and involuntary) ESSENTIAL TO SUSTAIN LIFE
  - Subdivided into 3 areas:
    - Diencephalon
      - “Between brain”
      - Integrates sensory and motor information as it travels to the cortex
        - Thalamus: processes all sensory information EXCEPT smell
        - Hypothalamus: maintenance of homeostasis, regulates the production of hormones in association with the pituitary gland