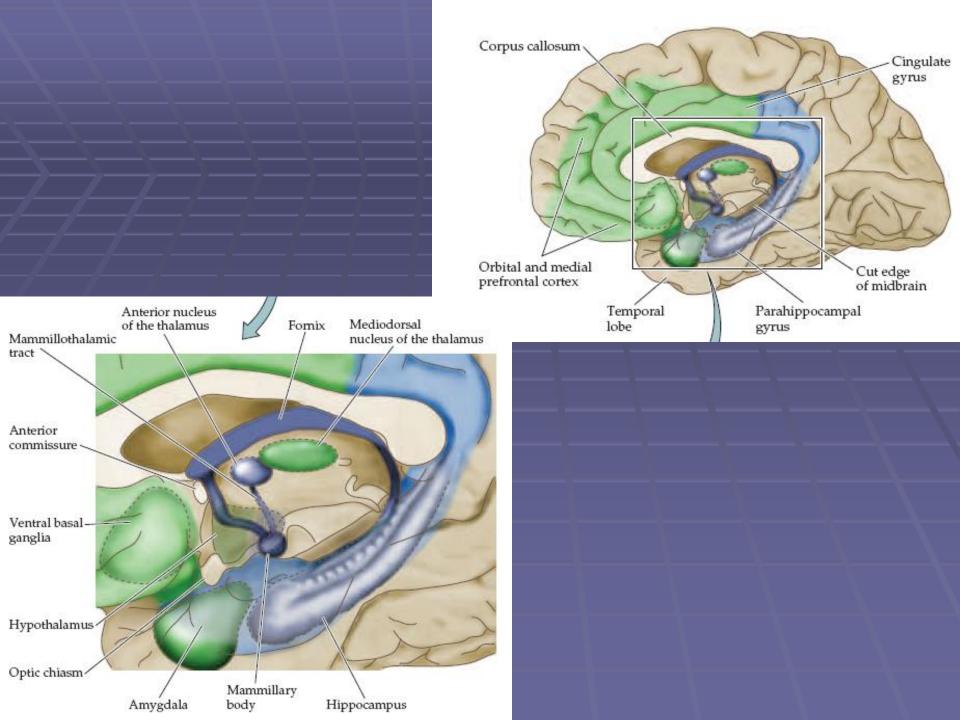
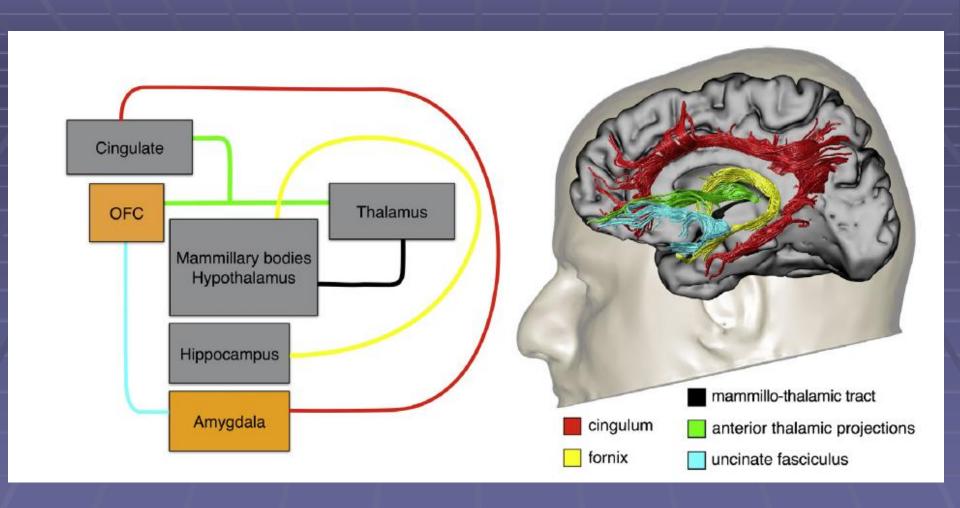
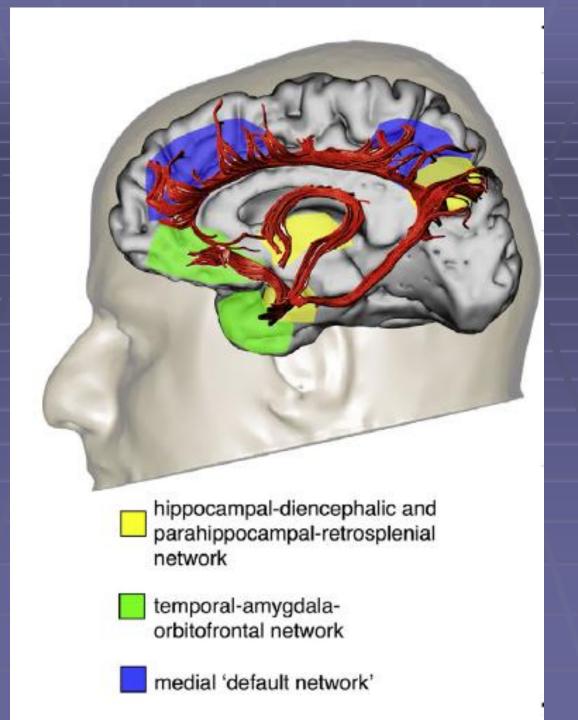
Limbic system







- Memory
- Spatial orientation
- Multimodal sensory integration
- Emotion processing
- Motivation and behavioral selection
- Self knowledge
- Default network

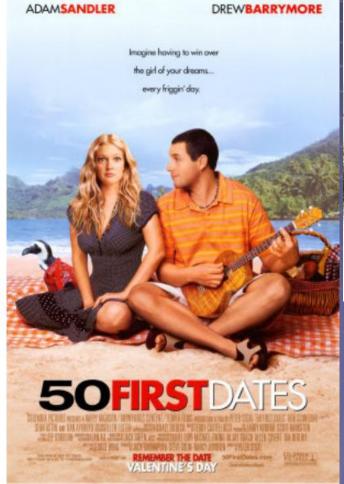
- Memory
- Spatial orientation

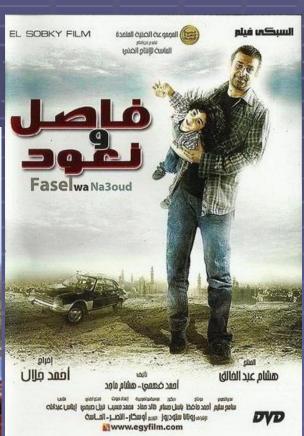
Hippocampal-dienchphalicparahippocampal- retrospinal network

- Multimodal sensory integration
- Emotion processing
- Motivation and behavioral selection
- Self knowledge
- Default network

Hippocampal-dienchphalicparahippocampal-retrospinal network

- Alzheimer's disease
- Amnesias
- Korsakoff syndrome







Henry Gustav Molaison (H.M.)



 Surgical removal of left and right medial temporal lobes (hippocampus, parahippocampal gyrus)

Anterograde amnesia

Korsakoff Syndrome

- Neuronal degeneration in the mammillary body, dorsomedial thalamic n. & hippocampus.
- Often seen in chronic alcoholics: due to thiamine deficiency.
- Both short- and long-term memory loss.
- Confabulation.
- Wernicke-Korsakoff syndrome: profound memory loss & learning difficulties.

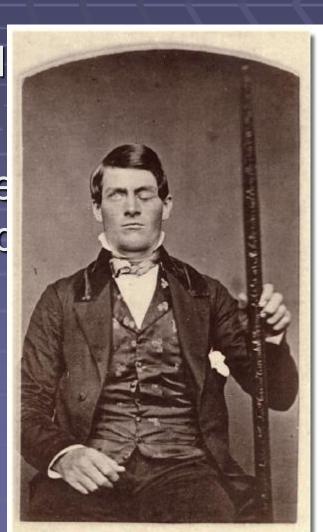
- Multimodal sensory integration
- Emotion processing
- Motivation and behavioral selection
 Temporal-amygdala-orbitofrontal
- Self knowledge
- Default network

Temporal-amygdalaorbitofrontal

- semantic deficits (semantic dementia)
- language difficulties
- personality changes and other behavioral symptoms (e.g. aggression, disinhibition)
 - Kluver-bucy syndrome
 - Psychopathy
 - Bipolar affective disorders

Temporal-amygdalaorbitofrontal

- semantic deficits (semantic d
- language difficulties
- personality changes and othe symptoms (e.g. aggression, or aggression)
 - Kluver-bucy syndrome
 - Psychopathy
 - Bipolar affective disorders



Ablation of the amygdala bilaterally

- Klüver-Bucy Syndrome
 - Hyperphagia
 - Hyperorality
 - Hypersexuality
 - Hypermetamorphosis
 - Agnosia: visual, tactile & auditory
 - Dementia

- Self knowledge
- Response selection and action monitoring
- Default network

Dorsomedial Default network