- Stimulation to posterior hypothalamus
  - sympathetic activation

- Stimulation of medial hypothalamus
  - full blown rage with sympathetic arousal

- Hippocampus
  - Plays a major role in memory
  - Lesions associated with anterograde and retrograde amnesia
  - Memories often have emotional context
  - Amygdala influences encoding and storage of memories

- The prefrontal cortex
  - Not part of the limbic system BUT made up of bidirectional links to thalamus, amygdala and other subcortical structures
  - Critical for the creation and expression of affect
  - Disruption of connections between frontal and limbic structures has been associated with affective disorders

- Case studies
  - Phineas gage
    - Emotional changes
      - Became erratic, emotionally volatile, outbursts
    - Personality changes
      - Became more impulsive, irresponsible
    - Unusual and inappropriate social behaviour
    - Does not seem to consider the consequences of his actions in the same way that you or I might

- Frontal lobotomy (Moniz, 1935)
  - Procedure effective for relieving anxiety but disastrous side effects
  - Indifference to social consequences of behaviour and feelings of others
  - Inability to make and execute plans
  - Patients aware of significance of situations only theoretically – no emotions evoked