

Anatomy and Functional Areas of the Brain

Functional Areas of the Cerebral Cortex

- 1 **Visual Area:**
Sight
Image recognition
Image perception
- 2 **Association Area:**
Short-term memory
Equilibrium
Emotion
- 3 **Motor Function Area:**
Initiation of voluntary muscles
- 4 **Broca's Area:**
Muscles of speech
- 5 **Auditory Area:**
Hearing
- 6 **Emotional Area:**
Pain
Hunger
"Fight or flight" response
- 7 **Sensory Association Area**
- 8 **Olfactory Area:**
Smelling
- 9 **Sensory Area:**
Sensation from muscles and skin
- 10 **Somatosensory Association Area:**
Evaluation of weight, texture, temperature, etc. for object recognition
- 11 **Wernicke's Area:**
Written and spoken language comprehension
- 12 **Motor Function Area:**
Eye movement and orientation
- 13 **Higher Mental Functions:**
Planning
Judgment
Emotional expression
Creativity
Inhibition
- 14 **Motor Functions:**
Coordination of movement
Balance and equilibrium
Posture



