



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 of 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**
Concentration
Planning
Judgment
Emotional expression
Creativity
Inhibition

Functional Areas of the Cerebellum

- 14 Motor Functions**
Coordination of movement
Balance and equilibrium
Posture

