

Topic - Hemispheric Asymmetry

Functional asymmetry of hemispheres

Functional asymmetry of hemispheres or lateralization of functions

Functional asymmetry of hemispheres (asymmetry) is the lateral specialization of functions of the two hemispheres of the brain. It is the division of labor between the two hemispheres. The left hemisphere is specialized for language, logic, and analytical tasks, while the right hemisphere is specialized for spatial, creative, and emotional tasks. This specialization is not absolute, as both hemispheres can perform many functions, but there is a dominant hemisphere for certain tasks. The study of functional asymmetry helps in understanding brain organization and the effects of brain damage.

① Lateralization of functions (Asymmetry in Visual Functions)

The study of lateralization of functions in visual processing shows that the left hemisphere is primarily responsible for the analysis of the spatial relationships between objects, while the right hemisphere is primarily responsible for the analysis of the objects' features. This is demonstrated by the tachistoscope experiment, where the left hemisphere is better at identifying the spatial location of a target, while the right hemisphere is better at identifying the target's features.





