

# Plasticity of the brain and its role in learning

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## **Abstract**

One of the most interesting and important findings of the cognitive neuroscience is the discovery of brain plasticity.

Especially, the human brain is highly plastic and can be shaped by experience. This experience-dependent shaping of the brain can be seen on different levels ranging from neuroanatomy (structural plasticity) to neurophysiology (functional plasticity).

This plasticity is most likely the basis for learning and provides the biological framework for the extraordinary ability to adapt to different biological and social environments.

An interesting and new aspect of brain plasticity is that it still happens in older ages.

In my talk I will describe recent findings of this research branch. In addition, the associated consequences which can (or should) be drawn from these findings will be discussed.