Limbic system

- Characteristics and Changes of Cingulate Gyrus Function and Perfusion in Patients With Anti-N-Methyl-D-Aspartate Receptor Encephalitis
- Voluntary wheel running exercise improves sleep disorder, circadian rhythm disturbance, and neuropathology in an animal model of Alzheimer's disease
- How early olfactory experiences influence brain development in mice
- Age-Related Increases in PDE11A4 Protein Expression Trigger Liquid-Liquid Phase Separation (LLPS) of the Enzyme That Can Be Reversed by PDE11A4 Small Molecule Inhibitors
- The effect of cannabidiol on neurometabolite levels in alcohol use disorder
- Modulation of Cortical and Hippocampal Functional MRI Connectivity Following Transcranial Alternating Current Stimulation in Mild Alzheimer Disease
- A comprehensive mapping of stress system interactions with pain and their contribution to chronification of musculoskeletal pain: Protocol of the STRAIN study
- The lncRNA Gas5 is an activity-responsive scaffold that mediates cAMP-dependent synaptic plasticity

The limbic system (or paleomammalian brain) is a complex set of brain structures that lies on both sides of the thalamus, right under the cerebrum.

It is not a separate system, but a collection of structures from the telencephalon, diencephalon, and mesencephalon.

Parts

It includes the olfactory bulbs, hippocampus, amygdala, anterior thalamic nucleus, fornix, columns of fornix, mammillary body, septum pellucidum, habenular commissure, cingulate gyrus, Parahippocampal gyrus, limbic cortex, and limbic midbrain areas.

Functions

The limbic system supports a variety of functions, including emotion, behavior, motivation, long-term memory, and olfaction.

It appears to be primarily responsible for emotional life, and it has a great deal to do with the formation of memories.

Some neuroscientists, including Joseph LeDoux, have suggested that the concept of a functionally unified limbic system should be abandoned as obsolete because it is grounded mainly in historical concepts of brain anatomy that are no longer accepted as accurate.

Limbic surgery

see Limbic surgery.