

Download Handbook Of Brain Connectivity

Understanding Complex Systems

A connectome (/kɒnɛktom/) is a comprehensive map of neural connections in the brain, and may be thought of as its "wiring diagram". More broadly, a connectome would include the mapping of all neural connections within an organism's nervous system. The human brain is the central organ of the human nervous system, and with the spinal cord makes up the central nervous system. The brain consists of the cerebrum, the brainstem and the cerebellum. It controls most of the activities of the body, processing, integrating, and coordinating the information it receives from the sense organs, and making decisions as to the instructions sent to the ... Pleasure is mediated by well-developed mesocorticolimbic circuitry and serves adaptive functions. In affective disorders, anhedonia (lack of pleasure) or dysphoria (negative affect) can result from breakdowns of that hedonic system. Human neuroimaging studies indicate that surprisingly similar circuitry is activated by quite diverse pleasures, suggesting a common neural currency shared by all. 2014; LeDoux J (2014) Emotion Appears To Be Generated in REM Sleep in the Absence of Sensory Input. How Does This Finding Fit with Your Stimulus-Response Model of Emotion? In: Dream Consciousness: Allan Hobson's New Approach to the Brain and Its Mind, vol. 3 (Tranquillo, N., ed), pp 157-158 Switzerland: Springer.