

Chapter 4 Concepts of Psychobiology



- The **frontal lobe** may play a role in the emotional experience, as evidenced by changes in mood and character after damage to this area. The frontal lobe may also be involved (indirectly through association fibers linked to primary sensory areas) in thinking and perceptual interpretation of information.
- The alterations include fear, aggressiveness, depression, rage, euphoria, irritability, and apathy and are likely related to a frontal lobe connection to the limbic system.
- The **limbic system** sometimes called the "emotional brain" is associated with feelings of fear and anxiety; anger and aggression; love, joy, and hope; and with sexuality and social behavior.

The Nervous System

- **Neurotransmitters** are chemicals that convey information across synaptic clefts to neighboring target cells.
- Neurotransmitters play an important role in human emotions and behavior and are the target for the mechanism of action in many psychotropic medications.
- Many neurotransmitters exist in the central and peripheral nervous systems, but only a limited number have implications for psychiatry.
- **Major categories of neurotransmitters**
 - **Cholinergic** - acetylcholine
 - **Monoamines** - norepinephrine, dopamine, serotonin, histamine
 - **Amino acids** - *Inhibitory:* GABA, glycine
-*Excitatory:* glutamate, aspartate
 - **Neuropeptides** - opioid, substance P, somatostatin

Elements Of Psychobiology

Daniel N. Robinson, William R. Uttal



Elements Of Psychobiology:

Delve into the emotional tapestry woven by Crafted by in **Elements Of Psychobiology** . This ebook, available for download in a PDF format (PDF Size: *), is more than just words on a page; it is a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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