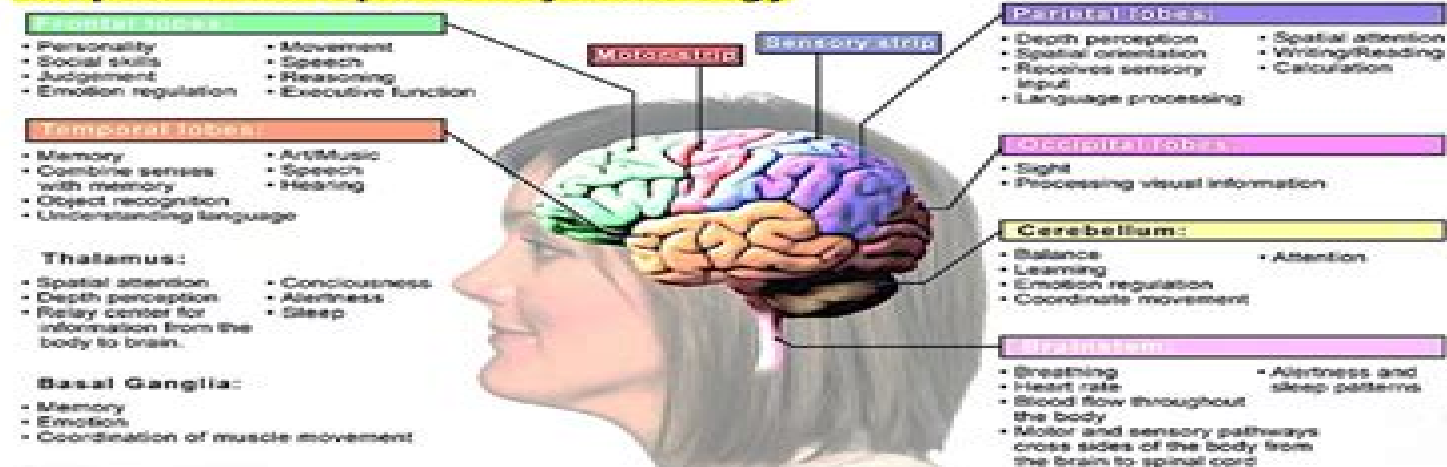


## Chapter 4 Concepts of Psychobiology



- 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

**George Kingsley Zipf**



## **Elements Of Psychobiology:**

## **Elements Of Psychobiology** Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Elements Of Psychobiology**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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