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Neuroscience: An Overview and Its Scope

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What is Neuroscience?



Neuroscience, also known as neural science, is the study of the nervous system, including the brain, spinal cord, and the networks of nerve cells (neurons) throughout the body. It seeks to understand the structure, function, development, genetics, biochemistry, physiology, pharmacology, and pathology of the nervous system. ~

Neuroscientists investigate the nervous system at multiple levels, from the molecular and cellular levels to the systems and cognitive levels. They explore how the nervous system develops, how it works to produce and regulate thoughts, emotions, behaviors, and bodily functions, and what happens when it malfunctions or is affected by disease or injury. ~

Because of the complexity of the nervous system, neuroscience is a highly interdisciplinary field that draws on knowledge and techniques from various disciplines, including: ~

- **Biology:** Studying the fundamental biological processes within the nervous system.
- **Chemistry:** Examining the molecular interactions within the nervous system. ~

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