



## Study of Neurobiology and there Aspects in Medical Field

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### DESCRIPTION

Biomedical Neuroscience is an interdisciplinary program taught by clinicians and clinical scientists as well as institutes of natural science. The program's objective is a comprehensive education in neuropsychiatric disorders and fundamental neuroscience. This encompasses both the theoretical foundation and the practical expertise necessary for commonly employed experimental strategies in clinical and basic research. Project-based scientific work in the participation institute's labs is part of the curriculum, which combines theory with hands-on instruction. Additionally, the curriculum includes management, communication, data analysis, and scientific ethics. The study of molecular and cellular neuroscience, systems and sensory neuroscience, behavioural and cognitive neuroscience, neurophysiology, and neuroanatomical is referred to as biomedical neuroscience. Basic scientists with or without a medical degree are neuroscientists. However, the majority of them hold neuroscience doctorates. The study of neurobiology focuses on the inner workings of the nervous system and brain. You will use your expertise to study these aspects and how they affect health, human behaviour, decision-making, and cognitive function as a neurobiologist. The integration of engineering principles and methods for solving problems with biology and medicine is known as biomedical engineering. Biomedicine is a branch of medicine that applies biological and physiological principles to clinical practice. It is also known as mainstream medicine, western medicine, or conventional medicine. The emphasis in biomedicine is on standard, biologically validated, evidence-based treatment that is administered by formally trained physicians, nurses, and other licensed practitioners. The study of molecular and cellular neuroscience, systems and sensory neuroscience, behavioural and cognitive neuroscience, neurophysiology, and neuroanatomical is referred to as biomedical neuroscience. The synthesis and regulation of a cell's DNA, RNA, and protein is the subject

of molecular biology. Macromolecule blotting, Gel electrophoresis, and polymerase chain reaction are just a few of the DNA manipulation methods used in molecular biology. A mixture of the desired DNA, DNA polymerase, primers, and nucleotide bases is put into a machine for the polymerase chain reaction. The machine heats up and cools down at different temperatures to break the hydrogen bonds that hold the DNA together. After the DNA is separated, the nucleotide bases can be added to the two DNA templates. Gel electrophoresis is a method for identifying DNA similarities between two unidentified samples. Preparing an agarose gel is the first step in this process. DNA can be poured into the wells on this jelly-like sheet. The DNA, which is negatively charged due to its phosphate groups, is attracted to the positive electrode by an electric current. Because some DNA fragments are larger than others, different rows of DNA will move at different speeds. Therefore, it is possible to determine that two DNA samples are identical if their patterns on the gel electrophoresis are comparable. Numerous other fields in the health and biologically related fields can also be related to biomedicine. For more than a century, it has been the medical practice of choice throughout the Western world. It covers a wide range of biomedical specialties and disciplines that typically have no prerequisites. The graduates of this program have a thorough understanding of the structure and function of the brain, from molecules and cells to large-scale circuits, behaviour, and the mechanisms and treatment strategies of various neuropsychiatric diseases.

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### CONFLICT OF INTEREST

The author's declared that they have no conflict of interest.

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