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Commentary

The neuro anatomy and behaviour in rat

Imam Hasan*

Department of Anatomy and Histology, Bangladesh Agricultural University, Mymensingh, Bangladesh.

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DESCRIPTION

The primary foundation for neurosurgical achievement is neuroanatomy. In recent years, the number of available neuroanatomy resources has increased dramatically. Ethanol exposure during development has a wide spectrum of morphological, molecular, physiological, and behavioural effects that can last a lifetime. This cluster of consequences is known as foetal alcohol spectrum disorder in humans, and it is very common in western societies. However, post-exposure experience can impact the ultimate expression of the effects of developing ethanol exposure. The substantia nigra is an important part of the limbic and motor circuits in the basal ganglia. The basal ganglia's dysfunction and degradation are key features of neurodegenerative illnesses like Parkinson's disease and Huntington's disease. Because sheep are increasingly being used to model neurological illnesses, it's important to understand the morphology and neurochemistry of these essential basal ganglia nuclei in the normal sheep brain, as well as how they compare to the human brain. As a result, researchers investigated the physical architecture, cellular morphology, and neurochemical expression patterns of the sheep substantia nigra. White matter damage caused by prenatal hypoxia–ischemia in preterm and low birth weight new borns is a high risk factor for death and chronic impairments such as sensory, motor, behavioural, and cognitive deficits. Ovarian hormones influence the pharmacological effects of psychostimulants and may increase drug addiction vulnerability. Female rats have more dopamine neurons in the midbrain and higher dopamine uptake and release rats than male rats. Cocaine enhances female rats' motor behaviour and dopamine efflux more than male rats, although the mechanisms that mediate this effect remain unknown. Individual differences in anatomic, neurochemical, and behavioural measurements were explored in female rats to see how ovarian hormones alter the relatedness of these endpoints. Interference occurs when people attempt to do two tasks at the same time, which is a core aspect of the human action and cognition system. Interference has long been researched using so-called overlapping dual tasks, which demand distinct responses to two stimuli delivered in quick succession. The narrower the delay between the two activities, the faster the reaction times on the second stimulus become. While most behavioural research looked at the temporal dynamics of interference, we employed functional magnetic resonance imaging to look at the functional neuroanatomy of overlapping dual-task performance. The huge amount of content to be acquired in biological fields necessitates maximising instructional efficiency. Learners who mastered whole anatomy and subsequently transferred to learning sectional anatomy were relatively efficient in previous work with computer-based neuroanatomy training. Continuously integrating total and sectional anatomy learning may, however, be more efficient. The human brain's structure has been widely researched. Despite all of our knowledge, direct information regarding connections in the human brain, from genesis to termination, is extremely restricted. Despite this, many people believe that human connectional neuroanatomy is well-established and validated. We look at what is known about human structural and connectional neuroanatomy in this article. Several sets of topographic terminology are used in anatomy and neuroanatomy to express orientation and position, which are commonly referred to as the body or brain axis. The axis of the CNS is sometimes misunderstood as being more or less straight, yet it always has two ventral flexures and a dorsal flexure, all of which are caused by differential growth throughout embryogenesis.

*Corresponding author. Imam Hasan, E-mail: imemhasan@bau.edu.bd