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Scientists develop first-of-its-kind tool for understanding memory, learning process

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Tools for deciphering mechanisms associated with learning and memory



A novel tool being a first of its kind in India has been developed by Prof. Suhel Parvez and his group at the Department of Toxicology, School of Chemical and Life Sciences, Jamia Hamdard (Deemed to be University), New Delhi, who established the Behavioral Tagging model for understanding the process of long-term memory (LTM) consolidation in brain.

The researchers used the In Vivo Electrophysiology Facility established at the Department of Toxicology with the support of Department of Science and Technology (DST), Govt. of India under the “Promotion of University Research and Scientific Excellence (PURSE)” program for the capturing bio-signals for developing the behavioural tagging model.

“The facility is well equipped with several neurobehavioral apparatuses for rodents to assess parameters which are analyzed by using Any-MAZE software. Also, the research on neurodegenerative disorders causing memory impairment such as Dementia, Alzheimer’s Disease, Parkinson’s Disease, and many more could utilize the findings of the work to find a direct link between the memory consolidation pathway and memory impairment mechanism in such diseased state,” said the researchers.