

Functional Peculiarities of Hippocampal Theta-Rhythm

R.M.Bagirova

Azerbaijan State Academy of Physical Culture and Sports, Department "General and sports physiology"

Baku, Azerbaijan Republic

rafiga_bagirova1@mail.ru

Abstract. The phenomenon of disappearance of the theta rhythm after lesioning of the septum and fornix has in its time stimulated a series of reports describing attempts to understand the roles of various structures in determining the electrical activity of the hippocampus and the functional significance of the theta rhythm. In chronic experiments with rabbits have shown that electrical destruction of dorsal amygdalofugal pathways leads to complete and persisted blockade of hippocampal theta rhythm in contrast to ventral one. When studies correlation between theta-rhythm and various forms of behavioral electrostimulation and destruction of dorsal and ventral amygdalofugal ways were carried out. The obtained data testify that frequency stripes of theta-rhythm seems reflects a level of activation of the brain structures.

Keywords: hippocampal theta rhythm, dorsal and ventral amygdalofugal pathway, electrostimulation, destruction, behavioral reactions, drinking conditioned reflex.