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Outpatient Department of Neurology, OUNZ, Prague 6, Czechoslovakia

Levey, A.B.
Personality factors in human conditioning.


Abstract
Adult and sexually naive male rats were individually, in repeated sessions, put into a box the floor of which had beforehand been scent-marked by oestrous females. The males of the control group were put into a box which had not been scent-marked. Although the males exposed to scent-marks showed, in two performed tests, significantly more precopulatory activities towards the passively receptive female, they were not able to initiating copulation with her. They initiated copulatory behaviour only in the test when their partner was a female exhibiting ritualized dartings.


Abstract
Use of the dynamic clusters method for automatic extraction of compressed information about recorded EEG signal is presented. The computer first divides the record into quasi-stationary segments by means of adaptive segmentation. Second, the extracted segments are classified by a method of dynamic clusters into homogeneous classes. One part of the used clustering algorithm permits to specify and draw the most
As a model of neurotic states induced by information overload experimental neurotic states were evoked in 13 dogs reared under conditions of partial social isolation by shortening the intertrial intervals in an alimentary conditioned reflex situation with delayed reinforcement. Both behavioural and autonomous disturbances were completely abolished in 4 of 5 dogs which were systematically exposed to muscular
activity. Similar protective and therapeutic effect had the muscular exercise which formed a main component of the therapy in 59 neurotic subjects.

Martiniak, J., Chavko, M., Marsala, J.
Free amino acids in the spinal cord, ganglia and ischiadic nerve of the dog after ligature of the abdominal aorta.

Abstract
The effect of occlusion of the abdominal aorta for 10, 20 and 40 minutes on the concentration of aspartic and glutamic acids, glutamine, glycine, alanine and gamma-amino butyric acid in the anterior and posterior horns of the lumbosacral spinal cord was studied in the dog, further, concentration of amino acids (except GABA) in lumbosacral spinal ganglia and in the ischiadic nerve following 40 minutes of occlusion. The changes were most marked after 40 minutes of occlusion with a rise in concentration of alanine, glutamine and glutamic acid in the dorsal part of grey matter. Striking was also the simultaneous elevated concentration of Glu and Gln in spinal ganglia. The significance of these changes is discussed from the aspect of metabolism and function of nerve cells. Under physiological conditions the free amino acid pool in the central nervous system remains essentially constant. Under pathological conditions, however, like ischemic-hypoxic states, various changes occur.

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