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DEPRESSION

Influence of electromagnetic fields on the emotional behavior of rats



1. Radiats Biol Radioecol. 2000 Nov-Dec;40(6):693-5.

[Article in Russian]

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The effects of ultra low power pulse-width + modulation electromagnetic radiation (EMR, power density 10 mc/Wt/cm², carrying frequency 915 MHz, modulating pulses with frequency 4, 6, 16 and 20 Hz, duration 10 min) on the rat emotional behavior

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and motor activity in the elevated plus-maze were studied. It was established that EMR (frequency of modulation 4 and 6 Hz) significantly decreased the emotionally negative reactions of anxiety and fear by a factor of 3.7 ($p < 0.01$) and 4.5 ($p < 0.01$) correspondingly and increased by a factor of 1.9-2.2 ($p < 0.05$) exploratory activity. On the contrary EMR (frequency of modulation 20 Hz) significantly increased by a factor of ($p < 0.05$) emotionally negative reactions of anxiety and fear and decreased by a factor of 1.8 ($p < 0.05$) the exploratory activity in rats.

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