



Short communication

Effect of two behavioral tests on corticosterone level in plasma of mice lacking the noradrenaline transporter

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Abstract:

In the present study, we investigated plasma corticosterone levels of genetically modified mice lacking noradrenaline transporter (NET^{-/-}), in response to the forced swim test (FST) and tail suspension test (TST). FST strongly increased the plasma corticosterone level in the first minute after the test (significantly only in NET^{+/+} mice), while TST was without any significant effect in both genotypes studied. A single dose of tianeptine (20 mg/kg, *ip*) shortened immobility time in both tests in NET^{-/-} mice, as well as NET^{+/+} mice subjected to FST, but not TST. The lack of effect of tianeptine in control animals (NET^{+/+}) subjected to TST is also reflected in unchanged levels of plasma corticosterone.

Key words:

tianeptine, corticosterone, PCPA, NET, knock-out mice, C57BL/6J, TST, FST
