

NEUROSCIENCE

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The Addictive behavior of addiction and the firing pattern of firing of the VTA dopamine (DA)-secreting neurons in the ventral tegmental area (VTA) are thought to be control-controlled by glutamatergic synaptic input from the prefrontal cortex (PFC). Disturbed-Interruption of functional input from the PFC to the VTA was has been shown as to decrease the addictive effects of the drugs on the addiction process. All abusive-drugs of abuse, including nicotine, activate the mesocorticolimbic system, that which plays critic critical roles in nicotine reward and reinforcement development plus and engendering triggers glutamatergic synaptic plasticity on in the DA-secretionsecreting neurons in the VTA. Nicotine <u>intaketreatment</u> may could enhance increase the α -amino-3-hydroxy-5-methyl-4isoxazolepropionic acid (AMPA)/N-methyl-D-aspartate (NMDA) ratio in VTA-DAsecreting neurons in the VTA, and this is commonly considered which is thought as a common the addiction mechanism of nicotine addiction. Therefore, In this paperstudy, we investigated whether or not the lack of glutamate transmission from the PFC to the VTA could make any change in can modulate the effects of nicotine.

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