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Metabotropic glutamate receptors and nitric oxide in dopaminergic neurotoxicity

Bashkatova V. mGluR and NO neurotoxicity

Valentina Bashkatova

Abstract

Dopaminergic neurotoxicity is characterized by damage and death of dopaminergic neurons. Parkinson's disease (PD) is a neurodegenerative disorder that primarily involves the loss of dopaminergic neurons in the substantia nigra. Therefore, the study of the mechanisms, as well as the search for new targets for the prevention and treatment of neurodegenerative diseases, is an important focus of modern neuroscience. PD is primarily caused by dysfunction of dopaminergic neurons; however, other

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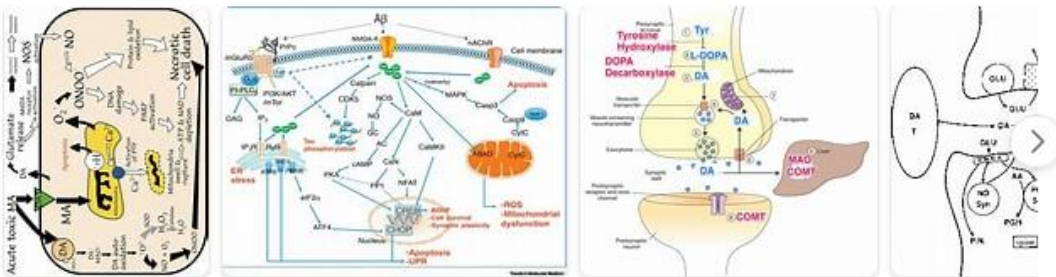
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Metabotropic glutamate receptor (mGlu)5 regulates microglia activation, which contributes to inflammation. ... Pharmacological inhibition of signaling molecules increased nitric oxide level and inducible nitric oxide synthase (iNOS), tumor necrosis factor- α , and interleukin (IL)-1 β and -6 transcript levels that were downregulated by treatment ...

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