

Part of the Neurons affected by SSRI Inhibitor/Prozac

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Part of the Neurons affected by SSRI Inhibitor/Prozac

Pharmacological Effects

SSRI selectively blocked the reuptake of 5HT through their inhibiting effects on the Na⁺/K⁺ adenosine triphosphatase (ATPase) dependant carrier in presynaptic neurons.

A standard TCA such as amitriptyline, which has about an equal tendency to block neuronal reuptake of 5HT and norepinephrine, Fluoxetine is 200 times more selective in blocking the reuptake of 5HT than of norepinephrine. Florentine

is approximately 4 times as potent as 5-HT reuptake inhibitor in vitro as is amitriptyline and paroxetine is approximately 80 times as potent an inhibitor as amitriptyline.

Of the five available SSRI's, paroxetine and citalopram appear to be the most potent 5HT uptake blockers. The reuptake blocking properties of the SSRI's enhance general serotonergic tone in at least two distinct steps. Initially the SSRI's contribute to a significant increase in the [availability](#) of 5HT in the synaptic cleft.

Serotonin (5HT) interacts with [multiple](#) brain receptors.

Three receptors subtype to influences a wide range of behaviors.

There main families of 5HT receptors (5HT₁, 5HT₂, 5HT₃) have been described which differ in their binding affinity for selective ligands their receptor effectors coupling mechanism and the [behavioral](#) processes they regulate. Manipulation of several different %HT receptor subtypes (5HT_{1A}, 5HT_{1C}, 5HT₂ and may produce anxiolytic effects; 5HT_{1A} and 5HT₂ receptors maybe involved in the etiology of major depression and the therapeutic effects of antidepressants treatment. 5HT₃ receptors have been linked to reward mechanisms and cognitive processes. These advances offer therapeutic possibilities, the ...

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