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Some serotonin molecules move towards the sending neuron. When they arrive at the receptor, serotonin is absorbed too quickly, which may result in lower levels of serotonin. When serotonin molecules are absorbed too quickly, the receiving neuron is stimulated, and the prefrontal cortex receives signals that lead to depression and appetite suppression. The neurotransmitter serotonin is pumped back into the sending neuron, which may reduce the psychoactive effect of antidepressants, such as Prozac and Paxil. Prozac, Paxil, and other selective serotonin reuptake inhibitors (SSRIs) partially block the normal transmission of serotonin. This in turn suppresses appetite, as previously mentioned. This process explains why some antidepressants can cause weight gain.

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