

## NEUROTRANSMITTERS, DRUGS, AND MENTAL ILLNESS

<b>Neurotransmitter</b>	<b>Major Functions</b>	<b>Drugs Affecting</b>	<b>Associated Mental Illnesses</b>
<b><i>Dopamine</i></b>	Reward, muscle activity, energy, attention, <b>pleasure</b> , emotional stability	All, but some more than others!	Schizophrenia, other psychosis
<b><i>Norepinephrine</i></b>	Energy, motivation, eating, attention, pleasure, alertness, assertiveness, confidence - "fight or flight"	Simulants, nicotine	Anxiety, depression
<b><i>Serotonin</i></b>	Mood stability, appetite, sleep, sexual activity, aggression, self-esteem	Stimulants, hallucinogens	Depression
<b><i>Anandamide</i></b>	Learning, memory, motor coordination, integration of sensory experience with emotion	Marijuana	
<b><i>Endorphins</i></b>	Pain control, reward, stress control	Opioids, alcohol, marijuana, PCP	Mood lability, emotional pain
<b><i>GABA</i></b>	Major inhibitory NT, muscle relaxant, controls aggression, arousal - brain's "valium"	Alcohol, benzodiazepines, barbituates, PCP	Anxiety, insomnia
<b><i>Glutamate</i></b>	Major excitatory NT, memory, learning, arousal, reward	Ketamine, PCP	Mania