

Table 6-2 Typical small neurotransmitters, their structures, and functions

Neurotransmitter	Typical effects*	Structure
Acetylcholine (ACh)	Fast excitation; slow inhibition	
Glycine (Gly)	Fast inhibition	
$\gamma$ -Aminobutyric acid (GABA)	Fast inhibition; slow inhibition	
Glutamate (Glu)	Fast excitation; slow change in postsynaptic metabolism	

\*Notice that the effect of a neurotransmitter depends on the properties of the postsynaptic cell. For most neurotransmitters, however, it is possible to identify their most probable effect.

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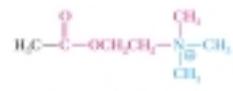
Neurotransmitter	Typical effects*	Structure
Norepinephrine (Nor-epi)	Slow excitation; slow inhibition	
Dopamine	Differs with location but causes slow postsynaptic effects	
Serotonin (5-HT = 5-hydroxytryptamine)	Slow excitation or slow inhibition	

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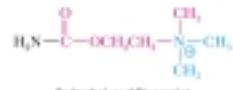
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Neurotransmitter	Typical effects*	Structure
Nitrogen oxide (NO)	Synaptic modulation	
Adenosine triphosphate (ATP)	Both fast and slow synaptic transmission	
Histamine	Slow modulation	

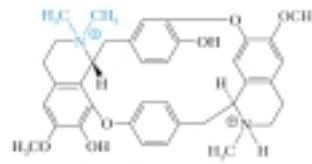
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Acetylcholine (ACh)



Dabachol, an ACh agonist



D-Tubocurarine, an ACh antagonist

