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switch from cholesterol metabolism to neuroscience, and to pursue a molecular characterization of synaptic transmission. His work initially focused on the mechanism of neurotransmitter release which is the first step in synaptic transmission, and whose molecular basis was completely unknown in 1986. Later on,

**Molecular mechanisms of neurotransmitter release**

Mechanisms of neurotransmitter release by amphetamines: A review David Sulzera,b,\* , Mark S. Sondersb,c, Nathan W. Poulsenb, Aurelio Gallid a Department of Psychiatry, Neurology and Pharmacology, New York State Psychiatric Institute, Columbia University, 650 W. 168th Street, Black Building Room 309, New York, NY 10032, USA

**Mechanisms of neurotransmitter release by amphetamines: A**

Article Molecular Mechanisms of Synaptic Vesicle Priming by Munc13 and Munc18 Highlights d Munc13-1 has a function independent from Munc18-1 d Munc13-1 and Munc18-1 cooperate to promote proper SNARE

complex assembly d Proper SNARE complex assembly yields near-physiological Ca<sup>2+</sup> sensitivity in vitro d Bypass of Munc13 in neurons with an open mutant of syntaxin is incomplete

### **Molecular Mechanisms of Synaptic Vesicle Priming by Munc13**

essential mechanisms for neurotransmitter release (21, 22). Here we focus on specializations that synchronize release and on aspects of synchronous release that provide insight into asynchronous and spontaneous release. Four mechanisms are critical for synchronous release (Figure 3). First, a nerve terminal needs

### **Molecular Mechanisms for Synchronous, Asynchronous, and**

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Almost all genes related to neurotransmitters have been cloned and the structures of the genes and the protein products have been characterized. Molecular mechanisms of neurotransmission have been elucidated by mouse molecular genetics such as transgenic or knockout mice.

### **[Molecular mechanisms of neurotransmission].**

release of neurotransmitter. The mechanisms and functions of spontaneous neurotransmitter release Ege T. Kavalali ... However, an increasing number of molecular studies have identified mechanisms that either promote or suppress spontaneous release that are dissociable from their impact on evoked release 20,21.

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