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Projections from VTA and to VTA

Recently, Sulzer et al. have argued for glutamatergic cotransmission for dopaminergic projections from VTA, based on immunostaining for glutamate in dopaminergic terminals of rat and monkey midbrain (A 9 or A10) slices, and stimulation of DA-neurons which evoked a fast glutamatergic EPSP with presynaptic inhibition by DA release [102]. If this hypothesis proves to be correct, the activity of DA-neurons in VTA would consist of a fast glutamatergic component in addition to the effects of DA release.

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