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Presynaptic effects of carbon monoxide in frog neuro-muscular junction

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Abstract

The effects of CO and zinc(II)protoporphyrin (ZnPP-9) hemoxigenase blocker on acetylcholine release in frog neuro-muscular junction are investigated and the role of guanylatecyclase in CO effects is revealed. It is found that CO, similar to NO acts as endogenic modulator in frog (and generally cold-blooded) neuro-muscular junction and the soluble guanylatecyclase is one of the main CO targets.