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Studies on Neurotransmitter Receptors and Their Ligands

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Abstract:

Structure-activity relationship studies of γ -aminobutyric acid (GABA) antagonists revealed that there are structural differences between the antagonist binding sites of houseflies and rats. The results point to the feasibility of the development of safe insecticides targeting insect GABA receptors. Studies with cockroach nerve cords demonstrated unique actions of dinotefuran and benzyldene anabaseines on insect nicotinic acetylcholine (ACh) receptors. Tyramine (TA) was shown to be a bioactive amine in the silkworm, and the structures of TA receptor ligands were disclosed.

Keywords:

GABA, acetylcholine, octopamine, tyramine, receptor, ligand

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