

Edexcel (B) Biology A-level

9.6 - Effects of drugs on the nervous system

Flashcards

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How does nicotine work?







How does nicotine work?

Absorbed in the lungs. Travels to brain via bloodstream.

Similar shape to acetylcholine = binds to cholinergic receptors.

Stimulant effect causes symptoms of sharpness & relaxation.











How does lidocaine work?











How does lidocaine work?

Absorbed through skin or injected.

Blocks voltage-gated Na+ ion channels = prevents postsynaptic neuron from depolarising.

Prevents transmission of pain signals so acts as anaesthetic.











How does cobra venom work?











How does cobra venom work?

Blocks acetylcholine receptors on diaphragm = muscle cannot contract during inhalation.

Disrupts normal breathing.





