

# Unraveling the Complexities of Addiction Neuroscience: A Journey into the Brain's Reward Circuitry

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## Abstract

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results in reducing cravings and preventing relapse (Table 1).

As technology advances and our understanding of the brain deepens, addiction neuroscience continues to evolve. Emerging techniques like optogenetics and advanced brain imaging provide new insights into the neural mechanisms underlying addiction. Moreover, personalized medicine approaches, guided by genetic profiling,

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