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# Dopamine D1 and D3 receptor polypharmacology as a potential treatment approach for substance use disorder

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**Highlights:**

- Drugs of abuse enhance dopaminergic transmission in the mesocorticolimbic system.
- We review the unique roles of DA receptor subtypes in addiction-related phenomena.
- Compounds that target D1 receptor activity alter the rewarding effects of drugs.
- D3 receptor agents can reduce drug incentive and behavioral responses to drug cues.
- The discovery of D1-D3 heteromers may transform addiction intervention research.

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