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## Nasal drug delivery: Recent innovations and future directions

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The nasal mucosa is a promising locus for drugs with low oral bioavailability and for treating conditions that require a rapid onset of drug action. This route is also being explored for the possibility of targeting drugs directly from the nasal cavity to the CNS. Appreciable technological expertise and information have been gathered over the years from investigations done by various excellent research groups in academia and industry. Ground-breaking approaches to design efficient nasal delivery systems for variety of drugs are currently in various stages of research and development. The technologies include novel excipients as penetration enhancers and powder-based mucoadhesive formulations for enhanced nasal delivery, design of carriers that stall drug degradation by mucosal enzymes, modulate drug release, improve retention in the nasal cavity and advanced delivery devices for targeting specific site in the nasal cavity. Although a lot of advancement is made for improved and efficient nasal drug delivery, the scientific community is still working to capitalize on crossing the blood–brain barrier via the nerves that innervate the nasal cavity.

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