

# Biochemical studies of opiate action

## - - Biochemical and pharmacological studies on the opiate receptors from human placenta

Opioid Receptor Effect	Opioid Receptor Type
Agonist Morphine	Mu, OP3, MOP, $\mu$
Antagonist Naloxone	Delta, OP1, DOP, $\delta$
Partial Antagonist Buprenorphine	Kappa, OP2, KOP, $\kappa$
	Nociceptin
Mu ( $\mu_1$ )	analgesia, euphoria, sedation
Mu <sub>2</sub> ( $\mu_2$ )	constipation, respiratory depression
Kappa	spinal analgesia, dysphoria
Delta	spinal and supraspinal analgesia

Description: -

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### Molecular Mechanisms of Opioid Receptor

Crystal HA, Hamon S, Randesi M, Cook J, Anastos K, Lazar J, Liu C, Pearce L, Golub E, Valcour V, Weber KM, Holman S, Ho A, Kreek MJ. Reports include KOR-mediated reductions on dopamine release, along with p38-dependent modulation of serotonergic output ;. Endogenous enkephalin levels correlate well with the endogenous dopamine content in various brain areas.

### Opioid Research Findings Funded by NIDA

This effect occurs in several brain regions as well as in the spinal cord and myenteric plexus.

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Molecular Mechanisms of Opioid Tolerance To date, the molecular and cellular mechanisms mediating the development of tolerance to morphine remain controversial.

### Opioid regulation of CNS dopaminergic pathways: a review of methodology, receptor types, regional variations and species differences

Summary of Opioid Receptor Signaling Cartoon depicting opioid receptor signal transduction and trafficking. This polymorphism highlights the conflicting results obtained from genetics studies of opioid receptor genes and drug dependence. ORL1 internalization appears to be more rapid than the other opioid receptors with some groups reporting internalization after only two minutes of agonist exposure in CHO cells.

## Related Books

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- [150 jaar stedelijk onderwijs te Antwerpen, 1819-1969. - \(Gedenkboek\).](#)
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