# Intracellular messengers

## Pergamon Press - Molecular action of hormones and intracellular messengers



Description: -

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Signal Transduction.

G proteins.

Second messengers (Biochemistry)

Cellular signal transduction. Intracellular messengers

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section 139

International encyclopedia of pharmacology and therapeutics

;Intracellular messengers

Notes: Includes bibliographical references and index.

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### Intracellular Signal Transduction by G protein coupled receptor 'GPCR Signalling'

When signaling occurs, ligand-gated calcium ion channels allow the higher levels of Ca 2+ that are present outside the cell or in intracellular storage compartments to flow into the cytoplasm, which raises the concentration of cytoplasmic Ca 2+. Digital Library Federation, December 2002.

## **Understanding Second Messenger Systems**

These physiological effects are exerted through binding to a number of proteins which includes cyclic nucleotide dependant protein kinases, cyclic nucleotide gated channels and cyclic nucleotide-regulated phosphodiesterases. Zhang J, Campbell RE, Ting AY, Tsien RY.

#### **Intracellular Signaling Cascades**

Third, to elaborate the detailed molecular mechanisms by which the drugs produce the altered biochemical and electrophysiological phenotypes.

#### Reactome

These are made available by the action of the other second messenger — IP 3. J Cell Biol 171: 303—312, 2005.

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