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The histamine receptors are of
4 types: H₁R H₃R H₄R
~~H₂R~~ ~~H₂R~~ ~~H₂R~~ ~~H₂R~~

(1)

H₃R

(2)

H₄R

(3)

H₁R

(4)

H₂R

histamine receptors are metabotropic
G-protein coupled receptors.

They belong to G-protein coupled
receptors

- H₁-R receptor drives cellular migration, nociception, Vasodilation and broncodilation.
- H₂-R receptor modifies gastric acid secretion, airway mucus production, and vascular permeability.
- The H₃-R receptor plays an important role in neuro-inflammatory diseases.
- Histamine H₄-R receptor is a pertussis toxin sensitive GPCR predominantly expressed on cells of immune system, including MCs, monocytes, eosinophils, dendritic cells, T cells and natural killer cells. It is expressed mainly on various immune cells.