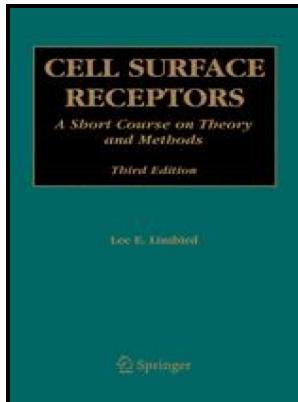


Short history of the drug receptor concept

Palgrave Macmillan - A brief history of the development of antidepressant drugs: from monoamines to glutamate

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Notes: Includes bibliographical references and index.
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Drug

The binding can be specific and reversible. Several monoamine-based pharmacological drug classes have been developed and approved for the treatment of MDD; however, remission rates are low often less than 60% and there is a delayed onset before remission of depressive symptoms is achieved.

Receptor theory

NMDA, AMPA, kainate and metabotropic i. Likewise, there are enzymes that catalyze components in a signal transduction pathway leading to increased signal transduction and amplification as well.

A Short History of the Drug Receptor Concept

As the image shows, endocytosis involved the internalization of a receptor preventing it from carrying out signal transduction. Rang, Editor, Drug Receptors, Macmillan Press 1973 , pp. Amoxicillin inhibits the synthesis of cell wall mucopeptide by the bacteria that cause the infection, and cimetidine inhibits gastric acid secretion by its antagonist action on histamine H₂ receptors.

16. Receptor Regulation

Fortunately, chemical research on the active glycosides of digitalis, and development of analytical methods, soon rendered all digitalis bioassays obsolete. Drug Discovery: The Evolution of Modern Medicines; Wiley: New York, 1985.

Receptor theory

As knowledge of human biochemistry and molecular biology advances, pharmacology zeroes in more often on enzymatic action and receptors. An

interesting example of the use of humans for testing occurred in the 1940s.

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