

Molecular Recognition Mechanisms

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Molecular Recognition Mechanisms

A ribosome is a biological machine that utilizes protein dynamics on nanoscales to translate RNA into proteins. Molecular recognition plays an important role in biological systems and is observed in between receptor-ligand, antigen - antibody, DNA - protein, sugar - lectin, RNA - ribosome, etc. An important example of molecular recognition is the antibiotic vancomycin that selectively binds with the peptides with terminal D-alanyl-D-alanine in bacterial cells through five hydrogen bonds.

Molecular recognition - Wikipedia

Molecular Recognition Mechanisms 1st Edition by M. Delaage (Editor) ISBN-13: 978-0471187851. ISBN-10: 0471187852. Why is ISBN important? ISBN. This bar-code number lets you verify that you're getting exactly the right version or edition of a book. The 13-digit and 10-digit formats both work. ...

Molecular Recognition Mechanisms: Delaage, M ...

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The current review looks at the molecular recognition mechanisms of existing and emerging agents in the physiological context of the surrogate markers. The imaging of caspase activities using substrate-derived agents has the advantage of high selectivity and can potentially allow the dissection of individual apoptotic pathways in vivo.

Molecular Recognition Mechanisms for Detecting Cell Death ...

Covers molecular recognition as being the key to the development of successful drugs in fighting diseases such as AIDS, arthritis and others. Another aspect covered is the use of monoclonal antibodies as diagnostics in the design of new drugs and other pharmaceutical products.

Molecular recognition mechanisms (Book, 1991) [WorldCat.org]

Molecular mechanism of NPF recognition by EH domains. Tonny de Beer 1, Andrew N. Hoofnagle 2, Jennifer L. Enmon 2, Rebecca C. Bowers 1, Montarop Yamabhai 3

Molecular mechanism of NPF recognition by EH domains ...

Molecular recognition mechanisms of thrombin Multiple functions of thrombin in hemostasis. Thrombin has been the focus of intense study since its discovery in the... Structural features of thrombin. Thrombin is a trypsin-like member of the chymotrypsin family of serine proteases; Method. In dealing ...

Molecular recognition mechanisms of thrombin - HUNTINGTON ...

1. J Thromb Haemost. 2005 Aug;3(8):1861-72. Molecular recognition mechanisms of thrombin. Huntington JA(1). Author information: (1)Department of Haematology, Cambridge Institute for Medical Research, Division of Structural Medicine, Thrombosis Research Unit, University of Cambridge, Cambridge, UK. jah52@cam.ac.uk Thrombin is the final protease generated in the blood coagulation cascade, and is ...

Molecular recognition mechanisms of thrombin.

Activity-regulated gene expression and coordinated development of glutamatergic and GABAergic synapses. While genetically pre-specified molecular recognition mechanisms may be important in connecting specific synaptic partners, neural activity-regulated gene expression programs appear to play a key role in orchestrating the assembly of neural circuits, which contain synaptic connections among ...

Molecular mechanisms underlying neural circuit formation

Intermolecular interactions are central to cellular processes. Molecular recognition — the detection of particular biological entities by cognate molecules, including signaling factors — regulates communication within cells and tissues, forming the foundation, e.g., of immune responses and hormone control. As intermolecular interactions can also be modulated by artificial intervention, the ...

Frontiers in Molecular Biosciences | Molecular Recognition

Mollicutes lack typical bacterial PAMPs (e.g., lipoteichoic acid, flagellin, and some lipopolysaccharides) and consequently the exact molecular mechanisms of Mycoplasmas' recognition by the cells of the immune system is the subjects of several researches for its pathogenic implications.

Mycoplasmas-Host Interaction: Mechanisms of Inflammation ...

By accurately defining ligand-binding sites, these KCNQ2 structures not only reveal different ligand recognition and activation mechanisms, but also provide a structural basis for drug ...

Molecular basis for ligand activation of the human KCNQ2 ...

The evolutionary selection of oligomeric clusters improves the stability of proteins against proteolytic degradation, increases local protein concentration, enables allosteric cooperativity, and...

Molecular recognition of human islet amyloid polypeptide ...

Molecular recognition and response in pollen and pistil interactions. Many bisexual flowering plants possess a reproductive strategy called self-incompatibility (SI) that enables the female tissue (the pistil) to reject self but accept non-self pollen for fertilization. Three different SI mechanisms are discussed, each controlled by two separate, highly polymorphic ge

Molecular recognition and response in pollen and pistil ...

Structure and Molecular Recognition Mechanism of IMP-13 Metallo-β-Lactamase. March 2020; Antimicrobial Agents and Chemotherapy 64(6) DOI: 10.1128/AAC.00123-20. Authors: Charlotte A. Softley.

(PDF) Structure and Molecular Recognition Mechanism of IMP ...

The mechanisms by which this information is put into action will be discussed next. Epithelial Reaction to Bacteria: NF-κB, MAPK and IRF Pathways. The binding of a pattern recognition receptor(s) with its cognate PAMP(s) results in the activation of cytoplasmic signaling circuits.

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