

Molecular Recognition Mechanisms

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Molecular Recognition Mechanisms

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. ...

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Molecular Recognition Mechanisms for Detecting Cell Death ...

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. Soffley.

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

Probing Binding Landscapes and Molecular Recognition Mechanisms of Atypical Antipsychotic Drugs towards the Selective Targeting of D 2 Dopamine Receptor Patrick Appiah-Kubi. Molecular Bio-computation and Drug Design Laboratory School of Health Sciences, University of KwaZulu-Natal, Westville Campus, Durban, 4001 South Africa ...

Probing Binding Landscapes and Molecular Recognition ...

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 ...

I. 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 ...

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Molecular Recognition and Docking Algorithms | Annual ...

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.

Frontiers in Molecular Biosciences | Molecular Recognition

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]

Elucidation of molecular recognition in biological contexts is covered in the reviews of Sites (protein–protein interactions), Robertson and Murphy (protein conformational stability), Davidson and Regen (interlipid interactions in membranes), Mader and Bartlett (mechanisms of protein-based catalysis, i.e., recognition of transition states), and Ma and Dougherty (cation– π interactions in model systems and in biological systems).

Introduction: Molecular Recognition | Chemical Reviews

Molecular events in apoptosis and necrosis are a source of valuable surrogate markers for the detection of cell death. Two classes of imaging agents are being developed for imaging caspase activities and redistribution of membrane phospholipids, respectively. The current review looks at the molecular recognition mechanisms of existing and emerging agents in the physiological context of the surrogate markers.

Molecular recognition mechanisms for detecting cell death ...

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