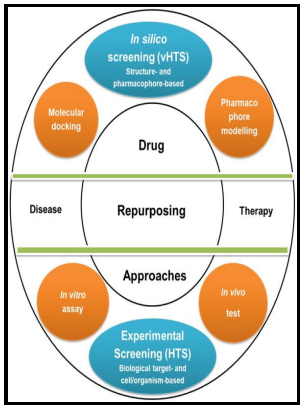
Peptide therapeutics - applications in the treatment of human disease

D & MD Publications - Metabolic actions of natriuretic peptides and therapeutic potential in the metabolic syndrome



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Notes: Includes bibliographical references.
This edition was published in 2004

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Animal protein toxins: origins and therapeutic applications

Recently, many mechanisms have been developed to overcome the limitations of these therapeutic peptides. The development of biotechnology methods enabled production of large quantities of bioactive proteins and peptides that are derived from components of animal venoms at a lower cost and in a relatively easier manner.

Metabolic actions of natriuretic peptides and therapeutic potential in the metabolic syndrome

Thus, the inhibited ACE fails to produce AngII a vasoconstrictor and cleave bradykinin, finally resulting in the decrease of blood pressure. Neurodegeneration can be triggered by genetic mutation, protein misfolding, oxidative stress, mitochondrial damage, neuro-inflammation, glutamatergic excitotoxicity, aging, aggregate formation, and apoptosis. Keywords: Anti-Cancer; Enzymes; Neurodegenerative disorders; Peptide based vaccine; Peptides; Stability.

Evaluation of the use of therapeutic peptides for cancer treatment

Subsequently, the structural features, mechanisms of action, limitations, and therapeutic applications of these peptides are explained. In addition to the peptides mentioned above, various studies have shown that antimicrobial peptides derived from amphibian skin such as Caerin and temporin have antiviral properties. Bradykinin-potentiating peptide b BPPb , which is from the Cantil snake venom, is a well-known toxin for the decrease of blood pressure, where the toxin targets an enzyme on tissue surfaces, and is the blocker of human angiotensin-1 converting enzyme ACE.

Animal protein toxins: origins and therapeutic applications

Four major venomous snake families include Hydrophiae, Elapidae, Viperidae, and Crotalidae Matsui et al. The anticancer effects are achieved mainly via regulating the expression of ion channels, e.

Development and Regulatory Challenges for Peptide Therapeutics

A family of the AMPs that their antiviral activity has been well studied is temporins.

New Peptide Could Improve Treatment for Vision

Subsequently, the structural features, mechanisms of action, limitations, and therapeutic applications of these peptides are explained.

Metabolic actions of natriuretic peptides and therapeutic potential in the metabolic syndrome

As an instance, some AVPs mimic sialic acid behavior and are recognized by the receptor-binding site of the viral Hemagglutinin HA. Viral proteases are important targets for the production of antiviral drugs. Among them, toxins having high specificity and selectivity on the targets can be used as drug candidates.

Peptide therapeutics: current status and future directions

Elastin-like polypeptides ELPs are biopolymers that contain a pentapeptide Val-Pro-Gly-Xaa-Gly repeat sequence. An example of a CPP is the trans-activator of transcription Tat. As described below, peptide 5A has several potential advantages over the use of recombinant apoA-1.

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