

Use of therapeutic peptides for cancer treatment

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Peptides are formed by combinations of amino acids linked by peptide bonds, and they play a major role in the treatment of various diseases, like cardiovascular diseases, cancer, allergic diseases, etc. They have considerable advantages over proteins, such as easy availability, simple purification and storage. They have given some good results in the treatment of cancer due to their high specificity and ability to penetrate cell membranes. In the treatment of cancer, therapeutic peptides have been classified into three main groups, such as pore forming peptides, cell permeable peptides and tumour targeting peptides. Pore forming peptides target the cancer cell membrane and induce cell death either by necrosis or apoptosis. An example includes buforins. S-permeable peptides translocate through cell membranes and carry small molecules, providing a good mechanism and way for drug delivery. For example, that peptide. Finally, tumour targeting peptides target certain receptors which are expressed on the cell membrane of the tumour; they can deliver drugs to the tumours to kill it. An example of this peptide is NGR (asparagine-glycine-arginine). According to researchers's findings and studies, cancer treatment using therapeutic peptides will provide better cancer therapy.

Keywords: Peptides, Cardiovascular Diseases, Tumor, Cell Membrane, Permeable, Cancer

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