Drug Delivery Methods, Applications and New A Horizon of Conjugated Drugs
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Abstract

Diseases and drugs are an inevitable part of our lives. People used several techniques to make the drug efficient. Molecular biological devices are used to control the release and manage the delivery rate in drug therapy. Several molecules are conjugated with drugs. Before a drug can reach the final destination, many obstacles have to be overcome. This obviates the need for delivery systems that can transport the drug efficiently into the target cell. These systems are called delivery systems. Poly Arginine containing peptide drug attached on cell membranes and inside the cells.

Introduction

Conjugation technology is used very often in nanotechnology. Now it's application has started for drug delivery purposes. Some plant molecules are chiral molecules; such as proteins, sugars, fats, hormones etc. Most of the market available drugs are chiral drugs. Diseases and drugs are an inevitable part of our lives. People used several techniques to make the drug efficient. Biological Conjugation enables the drug to stay stable in the blood stream for long time. The carbon atoms of fullerene do not attach with surrounding carbon atoms, these characteristics make it a good vehicle for drugs. Peptides can be attached with drugs for better penetration into cells or for stability. Amino acid Arginine helps with cell penetration. Poly Arginine containing drug attached on cell membranes and inside the cells. Poly Arginine containing peptide drug attached on cell membranes and inside the cells.

Methods

• Peptide bombardment method was used to deliver drug candidates in vivo.
• Point mutation was used to check the functionality of that gene with positive and negative control.
• Cell Culture took place with nano particles.
• Peptide conjugated drug delivery tested through regular cell culture. Data collected at 24, 48, 72 and 96 hours.
• DNA and nanoparticle conjugated drug delivery in cell was done dependent. DNA conjugated drug delivery also takes place with heat shock micro-injection.
• Slow drug delivery through F allotted.
• Glycine or chitosan attached drug delivery through cell culture.
• DNA purification takes place by column chromatography.
• Candidine drug get purified by RP-HPLC; HPLC- Tandem Mass Spectroscopy.

Discussion

Neutral drug delivery vehicles are the good sources for future study. 9 carbon hydrophobic attract easily with cell membranes. Arginine and other amino acids helps to penetrate cells when they are attached with drugs. Phenol containing natural compounds showed anti microbial and antimicrobial activity.

Conjugated drugs are in time now. Researchers are using various approach to deliver drugs effectively. Such as Quantum dot conjugated magnetic nano particle, carbohydrate conjugated nano particle. Redox molecules are conjugated with DNA and with other conjugation techniques. These molecules are used in drug delivery. The conjugation technique is used to control the release level in the cells. The conjugation technique is used to control the release level in the cells. The conjugation technique is used to control the release level in the cells. The conjugation technique is used to control the release level in the cells.

Results

• Peptide attached drug has good percentage of uptake in the human body.
• Gold nanoparticles conjugated with DNA or drug is a good delivery system for particle delivery.
• Fluorescent microscopy images shows internalization of drugs.
• Poly Arginine tail helps to attach peptide with cells and helps to internalize drugs.
• Carbodiimide attached drugs get absorbed in the system. Human body absorbs natural molecule fast.
• DNA purification take place by columns chromatography.

Works Cited