

PHSC-707: Cancer Targeting Approaches for Drug Delivery Applications

This course essentially deals with the ways and mechanisms of active targeting to tumors. The different active targeting methods and chemistries used in drug delivery systems/applications are discussed. Specifically, we discuss examples of drug targeting to tumors using the pH differential of the tumor microenvironment and endosomes, drug targeting and release mechanisms via enzymes such as proteases for drug targeting, and selective targeting to receptors overexpressed on the surface of cancer cells. Primary literature is the sole resource used in this course and students are encouraged to interact and discuss these principles in a practical manner.

Credits: 3

Program: Pharmaceutical Science