

Wednesday, December 12, 2018

LSC 3 | 12:00 - 1:00PM



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“Molecular Engineering of Macromolecular Therapeutics”

This talk will focus on molecularly engineered systems for the delivery of peptide and protein drugs. However, their main drawback is a short half-life, which dictates multiple and frequent injections. I will discuss two molecular engineering approaches in this talk that solve this problem. The first delivery system, is a recombinant fusion of peptide and protein drugs to a thermally sensitive polypeptide that forms an insoluble depot upon subcutaneous injection and provides sustained and tunable release of the drug from the injection site. The second class of sustained delivery system involves the conjugation of biologics with a next-generation hyperbranched PEG-like polymer that has the same long circulation as a linear PEG conjugate but without the intrinsic antigenicity of PEG, which has recently emerged as a serious problem with PEG conjugates of biologics.

Live Online Seminar Viewing:

<https://meet.ubc.ca/hana.kim/YGHMR41Q>

