

Seminar #11

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Barriers to Nanoparticle Delivery to Solid Tumours

Warren C. W. Chan

Institute of Biomaterials & Biomedical Engineering (IBBME)
Donnelly Centre for Cellular and Biomolecular Research (CCBR)



One of the main functions of nanoparticles is to deliver therapeutic agents to targeted diseased site. The therapeutic nanoparticle can kill or chemically alter sick cells. However, nanoparticles interact with a number of organs, tissues, and cells when they administered into the body. These biological entities sequester them and prevents the nanoparticles from being delivered at a high enough concentration to the diseased site to function effectively. In this presentation, I will discuss current and re-analysis of the mechanisms of nanoparticle transport in the body. These mechanism impact the design of nanomaterials for cancer targeting. Finally, I will discuss the future state in engineering of nanotechnology for cancer imaging and therapy.



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