

Wednesday, March 6, 2019

LSC 3 | 12:00 - 1:00PM



Dr. Dmitri Simberg

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Co-Director, Colorado Center for Nanomedicine and Nanosafety

Guest Chair Professor, Jilin University, China

“The 99%: Mechanisms of Immune Clearance of Nanomaterials after Systematic Administration”

Nanoparticles, just like any other pathogens, are efficiently recognized and neutralized by the immune system. I will present our research on mechanisms of immune recognition and biodistribution of nanoparticles, including clinically approved liposomes. I will focus on the role of complement and discuss new emerging mechanisms of complement activation by nanosurfaces, and the biomimetic strategies to inhibit immune recognition and uptake. Lastly, I will present new data on mechanisms of accumulation of therapeutic liposomes in the skin.

Live Online Seminar Viewing:
<https://meet.ubc.ca/hana.kim/YGHMR41Q>