

IEM SEMINAR SERIES

TUESDAY
OCTOBER 13th, 2015

The Role of the Protein Corona in Mediating Nanoparticle Targeting



Institute for
Engineering in Medicine

UNIVERSITY OF MINNESOTA
Driven to DiscoverSM

DR. WARREN C. W. CHAN

Professor, Institute of Biomaterials & Biomedical Engineering (IBBME)
Donnelly Centre for Cellular and Biomolecular Research (CCBR)
Materials Science and Engineering
Chemical Engineering, Chemistry
University of Toronto



FREE event, no registration
required.

Pizza and drinks will be
provided.

12:00PM - 1:00PM
Nils Hasselmo Hall
Room 4-101

For additional information
on Dr. Chan's presentation,
please contact:
scot0353@umn.edu

The Institute for Engineering in Medicine (IEM) is pleased to announce the IEM Seminar by Dr. Warren C. W. Chan, "The Role of the Protein Corona in Mediating Nanoparticle Targeting."

Nanotechnology involves the engineering of structures, materials, and particles in the size range of 1 to 100 nm. These nanostructures have unique biological, optical, electronic and magnetic properties that are directly related to their size, shape, and surface chemistry. As a result of these properties, nanotechnology is currently exploited in medicine for diagnosing and treating diseases. In this presentation, the properties of nanomaterials and challenges associated with using them for cancer targeting will be discussed. Specifically, the discussion will focus on how biological fluids and serum proteins influence the morphology, surface chemistry, and targeting ability of the nanoparticles in cells outside and inside the body.

Dr. Chan is currently a Professor in the Institute of Biomaterials and Biomedical Engineering at the University of Toronto. Dr. Chan received his B.S. degree from the University of Illinois in 1996, Ph.D. degree from Indiana University in 2001, and post-doctoral training at the University of California (San Diego). He moved to Toronto in 2002 to lead the Integrated Nanotechnology/Biomedical Sciences Laboratory. His research interest is in the development and translation of nanotechnology for diagnosing and treating cancer and infectious diseases. He has received NSERC E. W. R. Memorial Steacie Fellowship, the BF Goodrich Young Inventors Award, Lord Rank Prize Fund award in Optoelectronics (England), and Dennis Gabor Award (Hungary). He is currently an Associate Editor of ACS Nano. Finally, he is also affiliated with a number of different departments at the University of Toronto: Department of Materials Science and Engineering, the Terrence Donnelly Center for Cellular and Biomolecular Research Chemistry, Chemistry and Chemical Engineering.

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