Cancer nanotheranostics combines nanobiotechnology and cancer biology, aiming for early diagnosis, accurate molecular imaging, and precise treatment at the right timing and proper dose, followed by real-time monitoring of treatment efficacy. This talk provides an overview of the state-of-the-art of cancer nanotheranostics from the design of nanobiosensors for ultrasensitive biomarker detection in vitro, application of molecular imaging techniques for in vivo measurement of cancer hallmarks, image-guided cancer interventions, to nanoparticle platforms for co-delivery of imaging labels and therapeutic genes and drug molecules. The challenges of clinical translation of cancer nanotheranostic are also discussed.

CBC SEMINAR ANNOUNCEMENT

Professor Shawn Chen
National Institute of Biomedical Imaging and Bioengineering

Cancer Nanotheranostics

Date: 5th August 2015 (Wednesday)
Time: 10:30am–12:00pm
Venue: NTU SPMS MAS Executive Classroom 1
Host: Assoc Professor Xing Bengang