



SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Prof. Wang Yue:

Date: 20 August 2014, Wednesday

Time: 10:00AM – 11:00AM

Venue: Level 3, IMCB Seminar Room 3-46, Proteos, Biopolis

Speaker: Dr Huilin Shao, Postdoc Research Fellow, Massachusetts General Hospital, Harvard Medical School, USA

Title: Biosensor Platforms for Molecular Analyses of Circulating Cancer Biomarkers

Solid cancers often shed (sub)cellular materials into the circulation, such as circulating tumor cells and extracellular vesicles (exosomes). Mounting evidence supports that these circulating materials could serve as surrogate cancer markers for classifying primary tumors, stratifying patients for targeted therapies, assessing treatment efficacy, and achieving clinical benefits. A sensor platform capable of sensitive and portable detection of circulating cancer markers would thus be an invaluable tool, that will advance our understanding of tumor biology as well as clinical outcomes. In this talk, I will describe various systems that I have developed for quantitative analyses of circulating cancer biomarkers. By enabling rapid, sensitive and cost-effective detection of circulating cancer markers, these developed platforms could significantly expand the reach of preclinical and clinical cancer research, in informing therapy selection, rationally directing trials, and improving sequential monitoring to achieve better clinical outcomes.

Biography:

Huilin Shao received her B.A. from Cornell University in 2007, with a double major in Biological Sciences and in Physics. In 2013, she completed her Ph.D. degree in Biophysics from Harvard University under the guidance of Profs. Ralph Weissleder, Hakho Lee and Robert S. Langer. Concurrently, she finished her dual Ph.D. program in Medical Engineering and Medical Physics, Harvard-MIT Health Sciences and Technology (HST). During her research tenure at Harvard Medical School, she focused on developing novel nanotechnology-based platforms for molecular analyses of circulating biomarkers. Her research has been highlighted in major reviews and popular news media such as *Nature Review Cancer*, *Nature Review Clinical Oncology*, F1000 and BBC News. In recognition of Huilin's scientific contributions and achievements, she has received several awards. She is a recipient of the National Science Scholarship (NSS BS-PhD) from the Agency for Science, Technology and Research.

ALL ARE WELCOME (No registration required)