

SEMINAR ANNOUNCEMENT

We would like to invite you to attend this seminar hosted by Dr. Tan Yee Joo:

Date: 13 June 2018, Wednesday

Time: 2:00PM - 3:00PM

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

Speaker: Dr. Hongshan Li, Marketing Applications Manager, Pall ForteBio

Title: Cell-Based Assay Using Biosensor-captured Red Blood Cells

Cell-based Bio-Layer Interferometry assays (cBLI) use biosensors to capture both adherent and suspension cells. Different from current plate-based cellular assays, the bound cells on disposable Dip and Read[™] biosensors have more cell surface exposed to surroundings compared to cells with the aid of gravity at the bottom of a plate well. The optical detection signal is from a combination of both reflected light and scattered light, which makes the assay capable of detecting cell response changes easily. Therefore, cBLI could potentially be beneficial to a variety of phenotypic pre-screens, not only for whole cell bindings, receptor signaling studies and cell-cell interactions, but also for lead generation and optimization, ADME and toxicity screening. This presentation will discuss assay design and best practices for cell-based assays using red blood cells on the Octet system, as well as considerations for assay optimization, data acquisition and analysis. The developed cBLI methods offer users the ability to assess cell response in a versatile, high throughput, label-free, and easy-to-use format.

Biography:

Dr. Hongshan Li has many years of experience in the development and optimization of bioassay platforms. Currently he is Marketing Applications Manager at Pall ForteBio and his focusing is on novel cell-based assay development by using BLI technology. Previously Dr. Li was senior application specialist in Quanterix to support Simoa technology platform for single molecule detection. From 2011 to 2013, Dr. Li was a global technical support specialist for BioScale AMMP (Acoustic Membrane MicroParticle) technology. Before BioScale, Dr. Li was technical Lead and Senior Principal Scientist at Pall Corporationand was responsible for the development and execution of research projects for proteomics, diagnostics tool, chromatography products and applications development. Prior to joining Pall, he was Senior Application Specialist at Corning Life Sciences providing instrumentation and application of Epic label-free technology for HT drug screening. He also served as a program manager of Ciphergen applying genomics/proteomics research experience and hardware/software expertise to provide international technical support to both industry and academia. Dr. Li obtained his Ph.D. in Food Chemistry and Nutrition at Beijing Agricultural University in 1996.