Technology Seminar

Multiplexed high content assays for predictive screening using induced pluripotent stem cells: Highlighting accelerated discovery with Molecular Devices solutions

Speaker: Grischa Chandy, PhD
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8 May 2012 (TUE)
14:30 – 16:00
L9-53, Conference Room, 9/F, Laboratory Block
21 Sassoon Road, Pokfulam

All are Welcome!

A large percentage of drugs fail in clinical studies, or are withdrawn from the market due to toxicity. Recently, there is great interest in using stem cells in compound screening during early drug development. Here we examine how the ImageXpress® Micro XL HCS system can accelerate drug discovery by tripling the throughput of imaging assays. Combined with the MetaXpress software program, various image processing algorithms, including cell scoring, live-dead, granularity and neural network analysis; provide multiple outputs that enable proper characterization of phenotypic changes. Moreover, multi-parametric read-outs allow simultaneous assessment of membrane permeability, metabolic activity, lipid accumulation, cytoskeleton integrity and length of neurite outgrowth.

Any enquiry, please contact: corefac@hku.hk