



## **Technology Seminar for**

# **QuantiGene & Procarta: Single and Multiplex Solutions for RNA, DNA and Protein Quantification**

QuantiGene measures RNA and DNA levels directly from cell lysates and tissue homogenates utilizing a sandwich nucleic acid hybridization assay followed by a unique approach for quantification by amplifying a reporter signal using branched DNA (bDNA) technology. As a result, variations or errors inherent to extraction, reverse transcription and amplification of target molecules are avoided. QuantiGene can be configured as either a 96-well single plex assay (QuantiGene) or bead-based multiplex assay (QuantiGene Plex), which quantifies up to 36 genes per well of a microwell plate. We have also developed a novel approach to compound screening that substantially increases gene and sample throughput. Applications including **compound and RNAi screening**, **DNA Copy Number Variation (CNV)** and **biomarker analysis** using tissue, blood, and Formalin Fixed Paraffin Embedded (FFPE) archived samples will be discussed.

QuantiGene ViewRNA is a novel mRNA in situ hybridization solution, based on patent-pending probe set design and proprietary signal amplification methodology that offers single-copy mRNA sensitivity in single cells in a multiplex assay format. This new technology enables transcriptional profiling of individual cells within a population, and has broad applicability in research areas including biomarker validation and in vitro and in vivo RNAi delivery and knockdown. Moreover, the automation-friendly, simple assay workflow is suitable for high-throughput applications such as phenotypic or reporter gene screening.

Procarta Multiplex Protein Profiling Assays (cytokines, growth factors, transcription factors, SH-domains) enable simultaneous monitoring of inter- and intracellular protein signaling pathways in a 96-well plate format. A brief discussion of this broad family of assays, designed to measure protein expression and monitor protein modification/activation states in diverse matrices, will also be presented.

Date: 18 June 2010 (Thursday)  
Time: 2:45 - 4:00 pm  
Venue: Room 407, 4/F,  
Li Ka Shing Medical Sciences Building, CUHK  
Prince of Wales Hospital  
Speaker: Dr Hao Zhang  
Field Application Scientist, Panomics Inc.

All interested are welcome! For registration, please contact **Mr Ringo Lau at 2896 6283** or email to **[ringo\\_lau@genehk.com](mailto:ringo_lau@genehk.com)**

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