



Fluidigm Technical Seminar

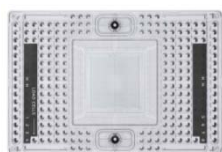
Date: Monday, 19 Oct 2015 Time: 14:00 – 15:00 Room: Lab1 C015

Single-Cell analysis by Fluidigm C1 and Biomark HD Systems

Speaker: Wataru Kai Ph.D.
Fluidigm Application Scientist

Systems biology aims to understand the molecular interactions that underlie biological responses by using multidimensional approaches. A weak point of many systems biology study designs has been reliance on data from large numbers of pooled cells, with the resultant global population averaging of interrogated parameters. Individual and distinct cells within the pooled cells often incite significant biological cascades; however, their contributions to measurements are masked. Therefore, single-cell analytical approaches are required for understanding systems biology models on such important subpopulation. Recent advances in integrated fluidic circuitry have enabled the development of specialized technology for single-cell study.

The Fluidigm C1 system integrates single-cell isolation and generation of templates for both of qPCR and NGS analysis. In addition, the C1, coupled with the Fluidigm Biomark HD system, streamlines gene and miRNA expression analysis seamlessly to support up to 96 individual cells across 96 targets. A combination of both systems provides ready and easy access to the data of genomics, transcriptomics, miRNA and epigenomics and becomes powerful tools for systems biology investigations.



C1 IFC



C1 system



Biomark system

Contact person: Yoshiyuki Yoshida
Fluidigm K.K.
Tel: 03-3662-2150 /080-9023-8940