The 32nd iCeMS
SEMINAR

Tue 06 Oct 2009
16:00-17:30

Lecturer: **Ken-ichiro Kamei, Ph.D.**
California NanoSystems Institute, UCLA

Microfluidic Image Cytometry:
Quantitative Multiparametric Analysis of Phenotype/Cell Signaling in Individual Human Pluripotent Stem Cells, and Glioblastoma

Venue: 2nd floor Seminar Room (#A207)
Main Building iCeMS Complex 1, Kyoto University

Dr. Kamei and his colleagues developed Microfluidic Image Cytometry (MIC) Technology, a multiparametric quantitative cell-based assay based on microfluidic technology. This technology allows quantifying molecular expression/localization and cellular features in individual cells with the advantages of small sample/reagent usage, scalability and precise fluidic delivery. Thus, MIC technology can provide a powerful tool for acquiring a better understanding in the key mechanisms of cell behavior.

In this seminar, Dr. Kamei will introduce a MIC technology for (i) quantitative phenotyping and cell signaling analysis of hPSC self-renewal and differentiation, and (ii) quantitative molecular diagnosis of glioblastoma patients.

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