

The 48th iCeMS SEMINAR

2010 3. 31 (水)
16:30-17:30

演 題: **A High Throughput Cell-Based Assay
for Identifying Inhibitors of AP-1
from NCI Compound Repositories**

講演者: **Moon-IL Kang, Ph.D.**

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場 所: 京都大学 アイセムス本館 2 階 (東一条北西角)
セミナー室 (A207)

Transcription factor AP-1 activity is required both to induce and to maintain tumor phenotype in carcinogenesis. The high throughput cell-based assay is designed to screen compound targeting AP-1 by using FRET (Fluorescence Resonance Energy Transfer) substrate to quantify the activity of β -lactamase reporter. Synthetic compound libraries and the National Cancer Institute natural product extract were screened to identify AP-1 hit, and the optimized screening was coupled with cytotoxicity assay in the same wells without having to do it in parallel. Several natural and synthetic compounds have been confirmed they could be promising candidates as anti-cancer drug having potential therapeutic activity for cancer treatment or prevention.

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