

Genetic Engineering of Cells and Animal Models using Zinc Finger Nuclease Technology

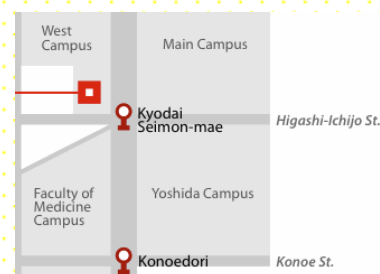
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Date: Feb 3rd (Fri) 2012 16:30-18:00

**Venue: Seminar Room (#A207)
2nd Floor of the Main Building
iCeMS Complex 1, Kyoto University**



Language: English

Zinc Finger Nucleases (ZFNs) are a class of engineered DNA binding proteins that enable targeted modification of the genome by creating site-specific double-strand DNA breaks. The cell's natural DNA repair processes are then harnessed and controlled to create the desired genomic modification. This approach enables highly efficient targeted gene knockout, point mutation and gene insertion at endogenous loci. ZFN technology has been applied to a broad array of cell types for many purposes including understanding basic protein function, creating isogenic cell line models of human disease, tagging of endogenous genes with fluorescent markers. Recent advances in ZFN technology and how it can be applied are opening further opportunities for sophisticated genomic engineering.

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Co-hosted by: Sigma Aldrich Japan
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