CDB SEMINAR

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Friday, July 13, 2012
16:30~17:30 A7F Seminar Room

Dissecting the route of human cellular reprogramming

Summary

The latent pluripotency of somatic cells can be recaptured by the transduction of such transcription factors as $OCT_{3/4}$, SOX_2, KLF_4 and c-MYC for a few weeks. However, both the detailed dynamic state of reprogramming cells and the route of reprogramming still remain unsolved because large numbers of non-reprogrammed cells, which are caused by the low efficiencies of certain reprogramming methodologies, have been identified in certain analyses. We herein show an improved reprogramming cell capture system, using a pluripotent cell-specific surface antigen called TRA_{-1-60}, and also elucidate that reprogramming cells share common features with early mammalian development.

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