



CDB SEMINAR

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Tuesday, October 18, 2016

16:00~17:00 Seminar Room A7F

Human naïve pluripotent stem cells and early embryogenesis

Summary

Human naïve pluripotent stem cells (PSC) have more similarity to pre-implantation epiblasts of blastocysts and mouse ES/iPS cells, compared to conventional human PSC from the views of cell signalling, metabolism, gene expression and DNA methylation. Human naïve PSC, additionally, form functional transcriptional circuitry similar to mouse naïve PSC.

Due to their early developmental stage, we expect naïve PSC become a useful source to analyse the human embryogenesis of the pre-implantation stage which could not be accessed by conventional PSC, developmentally more advanced cells. We have just started analysing a path of early human embryogenesis including epiblasts and extra embryonic tissues at the pre-implantation stage up to the post-implantation stage, using human naïve PSC.

At this seminar I would like to discuss our future direction as well as the current understanding of human naïve PSC and their epigenome.

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*This seminar is a part of RIKEN Epigenetic Seminar Series 2016.

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