部門公開セミナー

共催：新学術領域研究「配偶子インテグリティ」

Chromatin based control of germ cell and early embryonic development in mice

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In mammals, fusion of two highly differentiated gametes gives rise to a totipotent zygote capable of developing into a whole organism. The switch in cell fate coincides with translation and degradation of maternally provided transcripts, initiation of global transcription and “epigenetic reprogramming” of germline chromatin states into an embryonic state. Changes in chromatin are dynamic and occur in part in a parent-of-origin specific manner. I will discuss our ongoing efforts to unravel the role of Polycomb group proteins in epigenetic inheritance between generations, and in modulating chromatin states, nuclear organization and transcription in oocytes and early embryos.

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