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医療分野国際科学技術共同研究開発推進事業
戦略的国際共同研究プログラム (SICORP カナダ)
事後評価結果コメント

研究開発課題名	多能性幹細胞と栄養外胚葉幹細胞の運命を分ける転写因子とエピジェネティクスの階層性
研究開発機関名	熊本大学
研究開発代表者名	丹羽　仁史

Final Review Report (Rossant-Niwa team)

Project's Name	Genetic and Epigenetic Hierarchies Distinguishing Pluripotent and Trophoblast stem cells
Comments	This group has investigated the gene regulatory and epigenetic networks underlying the transition from pluripotent embryonic stem (ES) cell state to the extraembryonic trophoblast stem (TS) cell state. They performed omics analyses and obtained genetic hierarchies inferred from them that may regulate the ES-TS transition. They also extended their study to human and Cynomolgus monkey systems. These are very important works accomplished by close collaboration between world-leading groups. As a joint project, this team fostered excellent interactions and collaborations and made a good progress toward their goal. They proceeded the project essentially as originally proposed, and the key results have been obtained. However, the overall data have not been integrated well and the joint effort has not been published yet. The initial proposal might be a little narrow or too much focused. Future prospect of study on trophoblast stem cells should be discussed in more detail by including the toti-potent stem cells.

以上