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演 題 : **Systems Approach to Stem Cell Biology**

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To establish stem cell based regenerative medicine with reliability, we have to understand behaviors of cells as a system. "Systems Biology" is a concept to understand biological system as system, and a vital systems biology can be organized only if both high resolution biology and precise computational methodology come together, and positive feed back loop is formed between them. Toward this goal, we first established an open platform "Gene Expression Commons" for definitive gene expression profiling by meta-analysis of large scale gene expression microarray data collection. Then this framework has been extended to other layers of biological mechanisms such as epigenetic regulation for further understanding of stem cell system.

主 催 : 京都大学 物質-細胞統合システム拠点 (iCeMS =アイセムス)

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