



Fumi Kano Lab

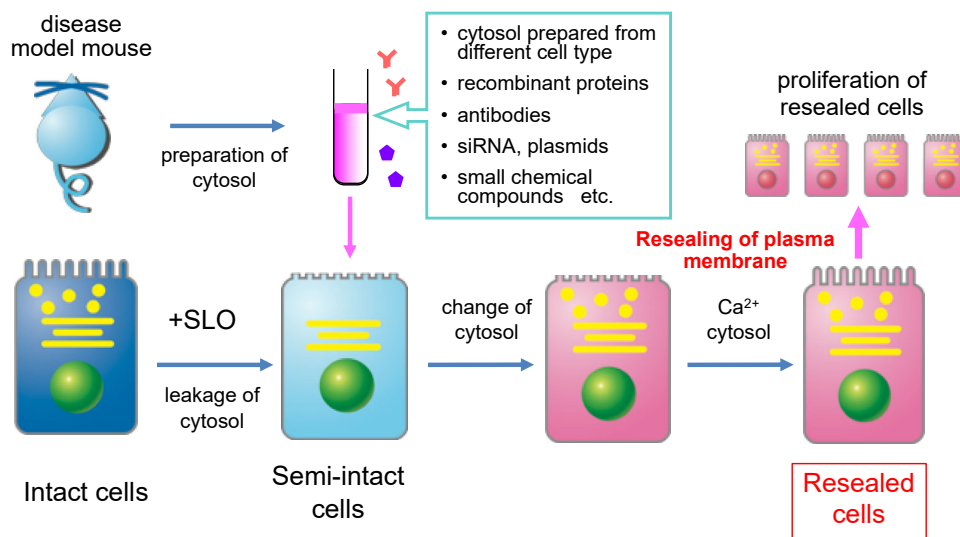
Cell editing technology to create the cells with novel functions and values

Cell Biology Center

<http://kanolab.rcb.iir.titech.ac.jp>



Our research aim is to develop the innovative **cell-editing technology** using human iPS cells

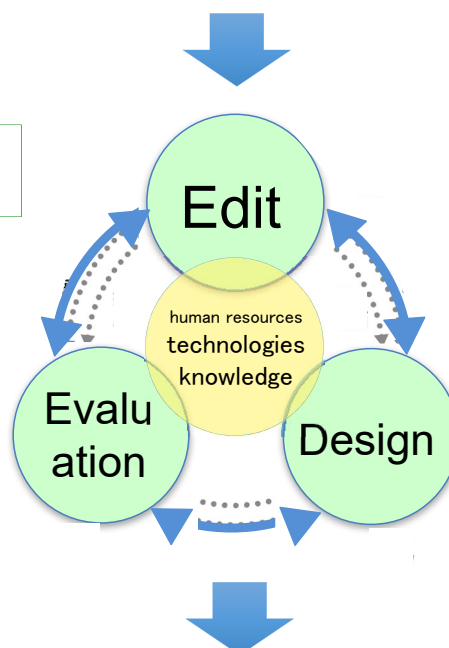


【Semi-intact cell system and cell-resealing technique】

A method to introduce molecules into cells for changing the intracellular environment and cellular functions

Cell-based Design Laboratories

A platform to develop the novel cell-based technologies for "Design", "Edit", and "Evaluation" of cells



"Edit" process is done by cell-resealing technique along with other editing technologies such as genome editing. "Design" and "Evaluation" are performed by a novel image-based network analysis based on the quantitative data from the fluorescent images of the cells (collaboration with Prof. Masayuki Murata at The University of Tokyo).

Creation of cells with novel functions and values

e.g. cells for regenerative medicine, production of functional biological materials, and so on