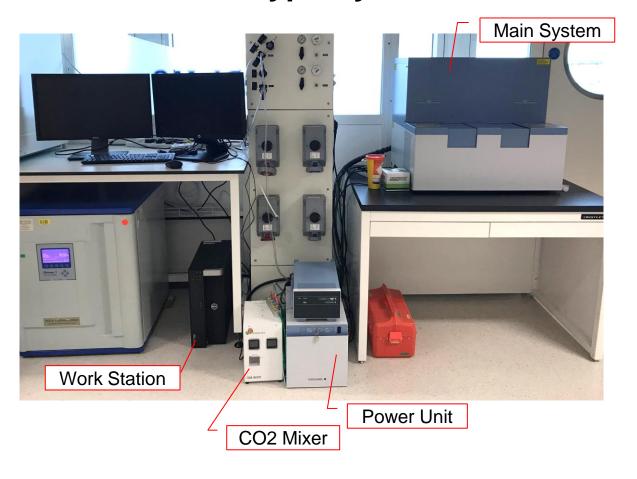
Automated *single-cell* and *sub-cellular* Sampling System

Yokogawa Electric Corporation Life Business Europe

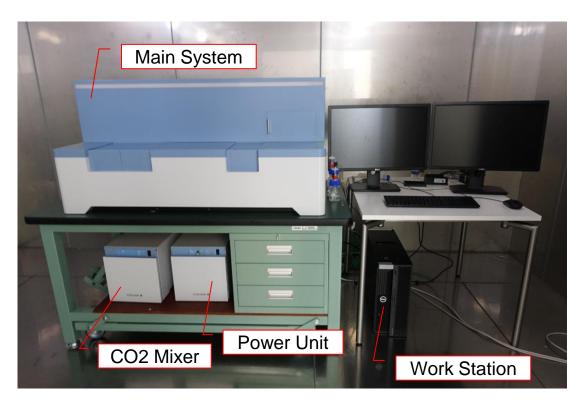


Appearance

Prototype System



Automated Sampling System



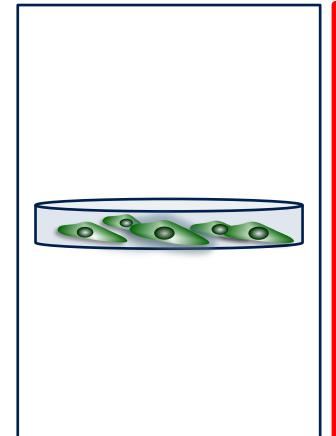
To be commercialized

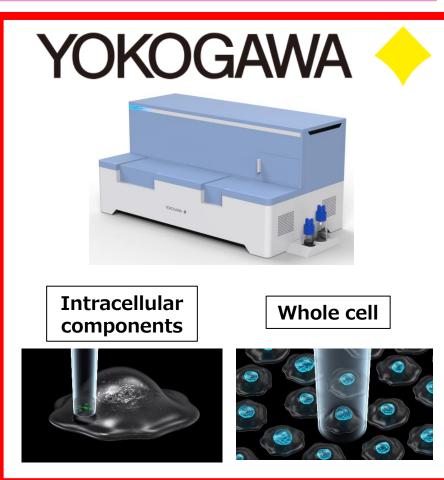


Cell preparation

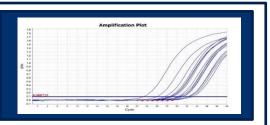
NEW system (Cell sampling)

Analysis

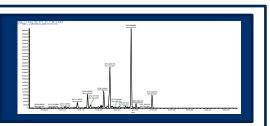




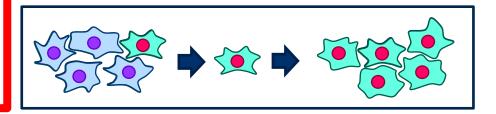
Genetic analyses



Mass spectrometry

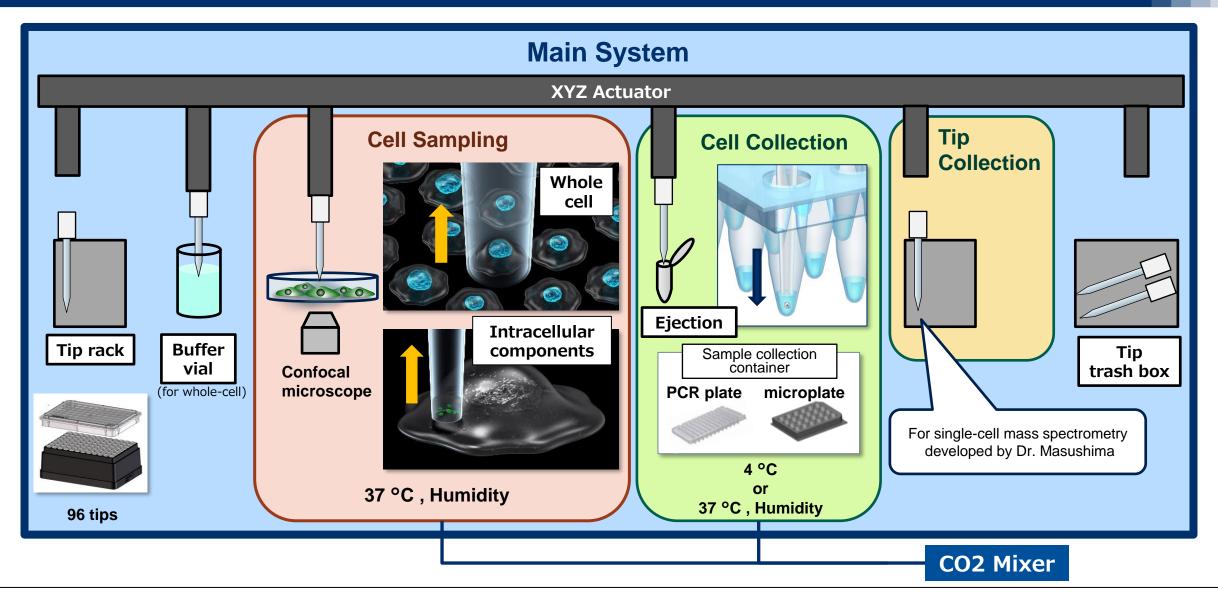


Single cell cloning



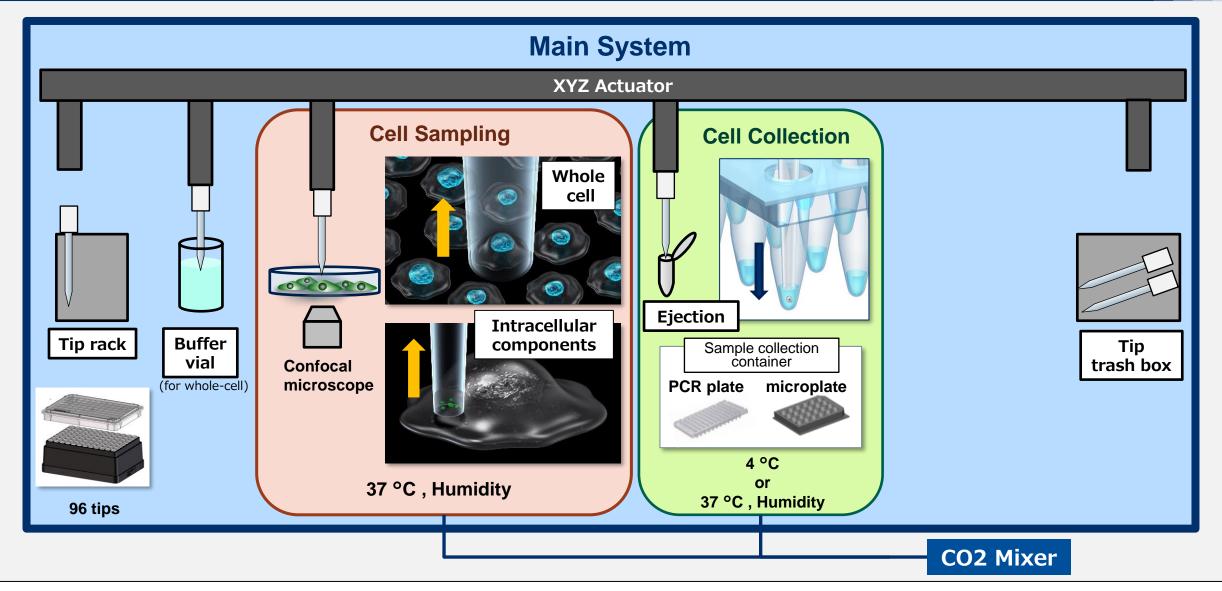


System configuration



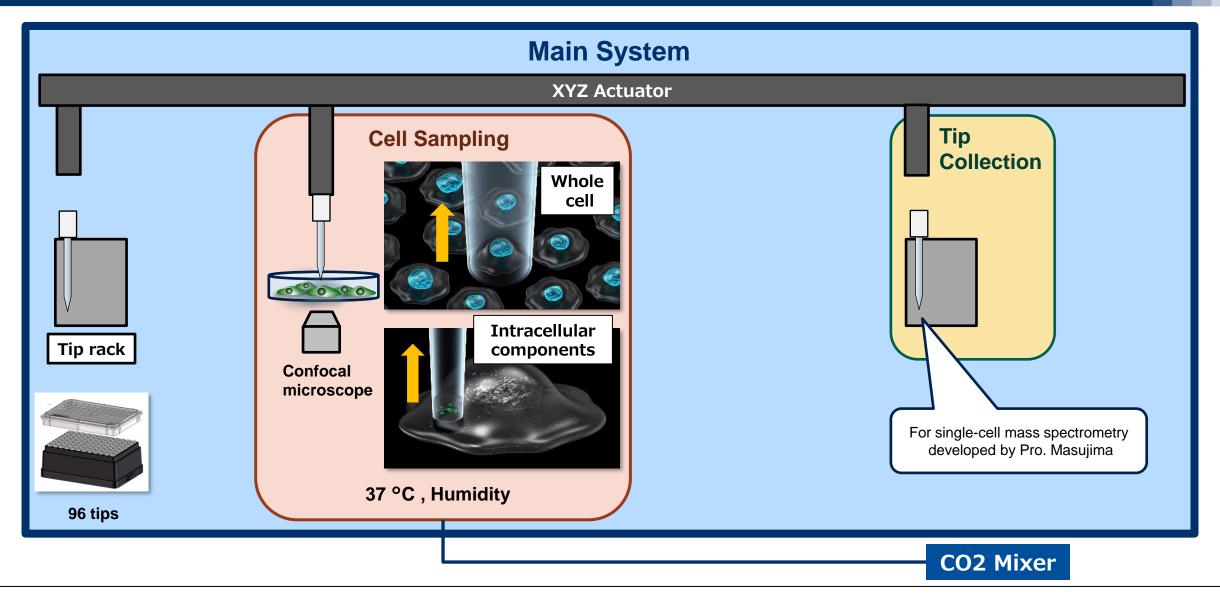


System configuration (Cell Collection)





System configuration (Tip Collection)





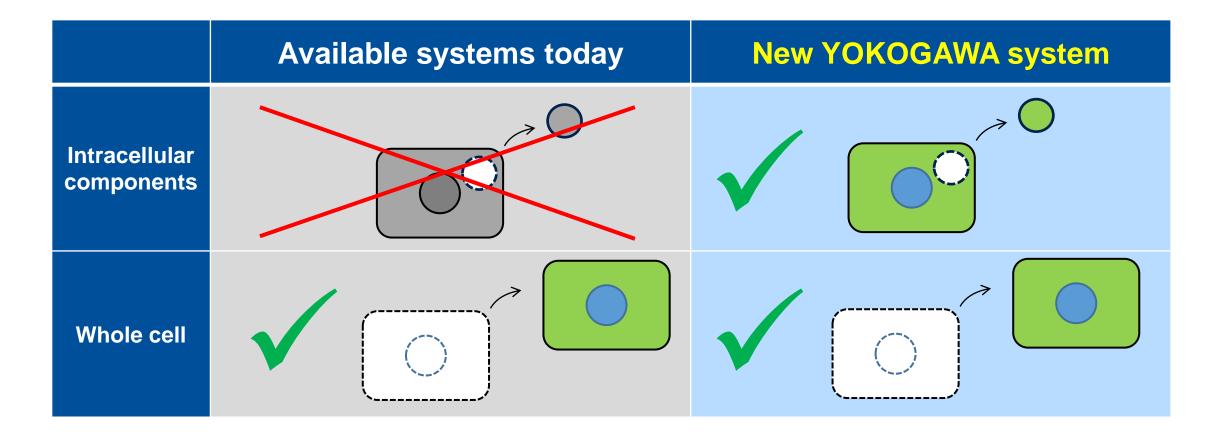
Advantages

- 1. Automated single-cell or intracellular components sampling
- 2. New system can sample while retaining location and morphology information
- 3. No need for proficient skills



Advantage 1

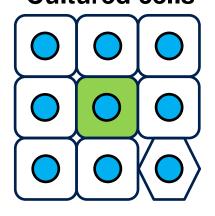
Automated single-cell and intracellular component sampling



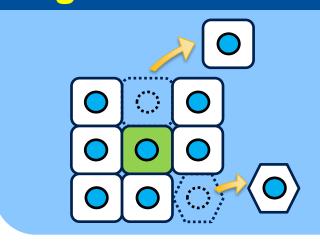


New system can sample while retaining location and morphology information

Cultured cells



Yokogawa confocal microscope- based sampling system



- Small amount of sample
- location information
- morphological information

General sampling system





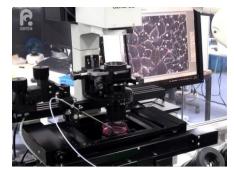




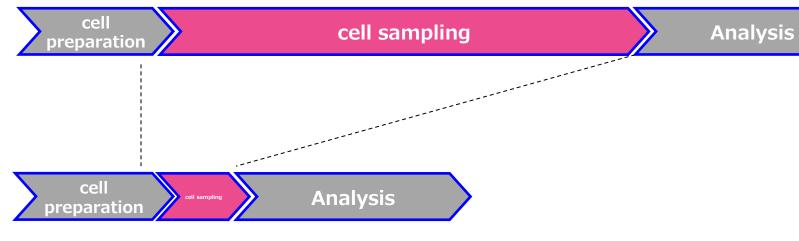
- Large amount of cells
- No location Information
- No morphological information

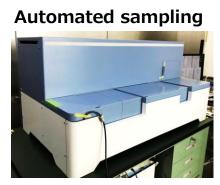
No need for special skills

manual sampling



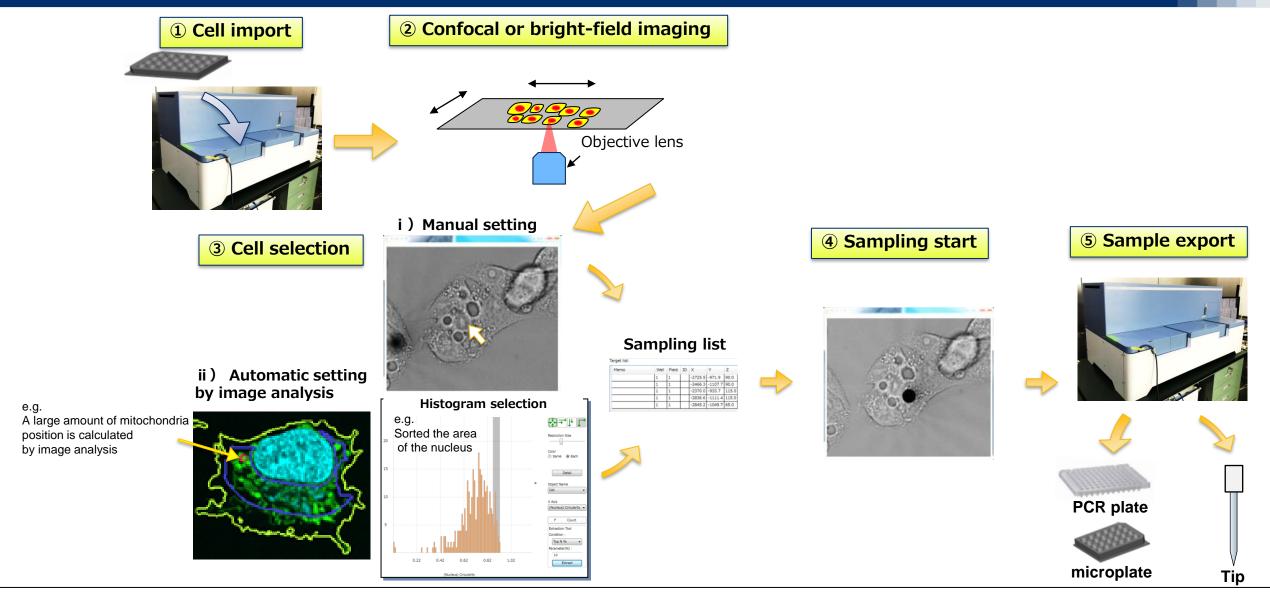
Requires special skills





No special skills required

Sampling procedure



Co-innovating tomorrow TM



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