

CellRaft Technology for Core Labs

Access New Investigators:

- **Easy setup and user-friendly software** requires minimal training to image, sort and isolate cells
- **Imaging-based sorting** allows evaluation of more sophisticated phenotypes (e.g. morphology, subcellular localization, cell-cell interactions, etc.)
- **High viability applications** improved with gentle sorting and isolation
- **No minimum input requirement**, enabling investigators with small samples (dozens to hundreds of cells) to isolate single cells

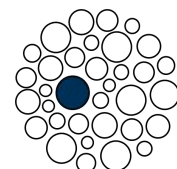
Low Cost of Operation:

- **Competitive instrument pricing** with 12-month service program included
- **No dedicated reagents** required, allowing flexibility and integration into any workflow
- **Favorable price per run** and virtually no hands-on setup of system prior to use



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Flow Cytometry and Sorting Core Benefits:

No minimum input	Isolate at least 96 cells from samples with < 500 cells
No waste of cells	Gating of fluorescent signals is performed using the cells seeded on the array; no cells are wasted to set up gates
Minimal set-up	Cell culture consumable goes into the system; no specific set-up for cell size or type
Flexible collection	Collect in 96-well plates or PCR strip tubes in as low as 2.5 μ L
Efficient	Isolation efficiency >95%
High Viability	Isolated colonies have improved viability compared to flow sorted cells

Genomics Core Benefits:

Connect images to Genomic Data	Imaging data can be linked to genomic data on a cell-by-cell basis
Flexible for any workflow	Compatible with a range of sample preparation kits for each workflow (RNA-Seq; CNVs, Single nucleus sequencing, etc.)
Reduce appearance of aberrant phenotypes	Gentle release-and-transfer method prevents appearance of stress-induced phenotypes
Reduce opportunities for cross-contamination	Cells remain alive and intact throughout the imaging, sorting and isolation process

Gene Editing Core Benefits:

Track clonal colony formation	Monitor single cells propagation time course to verify clonality
Grow colonies in the array	Using the array as a cell culture consumable, allow colonies to grow within array microwells
Isolate colonies one at a time	Colonies can be collected without disturbing other colonies growing on the array (i.e. eliminate trypsin-based isolation of colonies <i>en masse</i>)
Monitor cell phenotypes	For CRISPR screening, monitor cell phenotypes by imaging and release cells of interest for genomic characterization