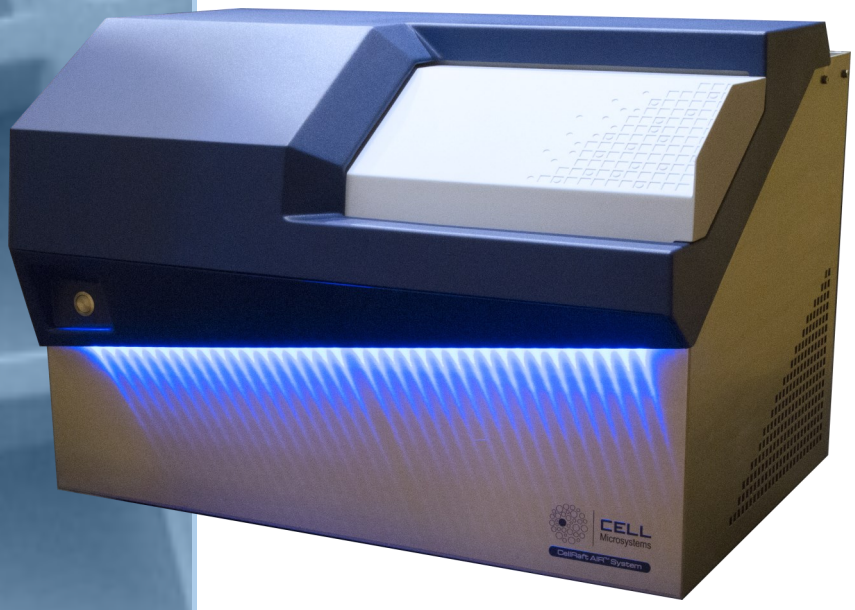
Benefits of Single Cell Isolation Using the AIR™ System in a Core Laboratory

Access New Investigators:

- **No minimum input requirement**, enabling investigators with small samples (dozens to hundreds of cells) to isolate single cells
- **Easy set-up and user-friendly software interface** for imaging, sorting and isolation of cells requiring minimal training
- **Imaging–based sorting** allows evaluation of unique criteria (e.g. morphology, subcellular localization, cell-cell-interactions, etc.)

Low Cost of Operation:

- **Competitive instrumentation cost** with 12 month service program included
- **No dedicated reagents** are tied to the consumable allowing integration into any workflow
- **Favorable per-cell costs** with virtually no set-up or customization of instrumentation prior to use



CELL Microsystems

CellRaft AIR™ System

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Flow Cytometry Core Benefits

Flow Cytometry Core Benefits	
No minimum input	Isolate at least 96 cells from samples with as few as 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 µL
Efficient	Isolation efficiency of 95% in 96-well plates and 90% in PCR strip tubes

Genomics Core Benefits

Genomics Core Benefits	
Connect imaging 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 with no dedicated reagent kits associated with each genomics workflow (RNA-Seq; CMVs, Single nucleus seqeuncing, 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

Genome Editing Core Benefits

Genome Editing Core Benefits	
Track clonal colony formation	Monitor transfection-positive single cells for clonal colony propagation
Grow and isolate colonies from the CytoSort 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 released from a given CellRaft without disturbing other colonies growing on the array (i.e. eliminate trypsin-based isolation of colonies *en masse)*
Monitor cell phenotypes	For CRISPR screening, monitor cell phenotypes by imaging and release cells of interest for genomic characterization

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