

# CellRaft AIR System

## Functional Cell Sorting

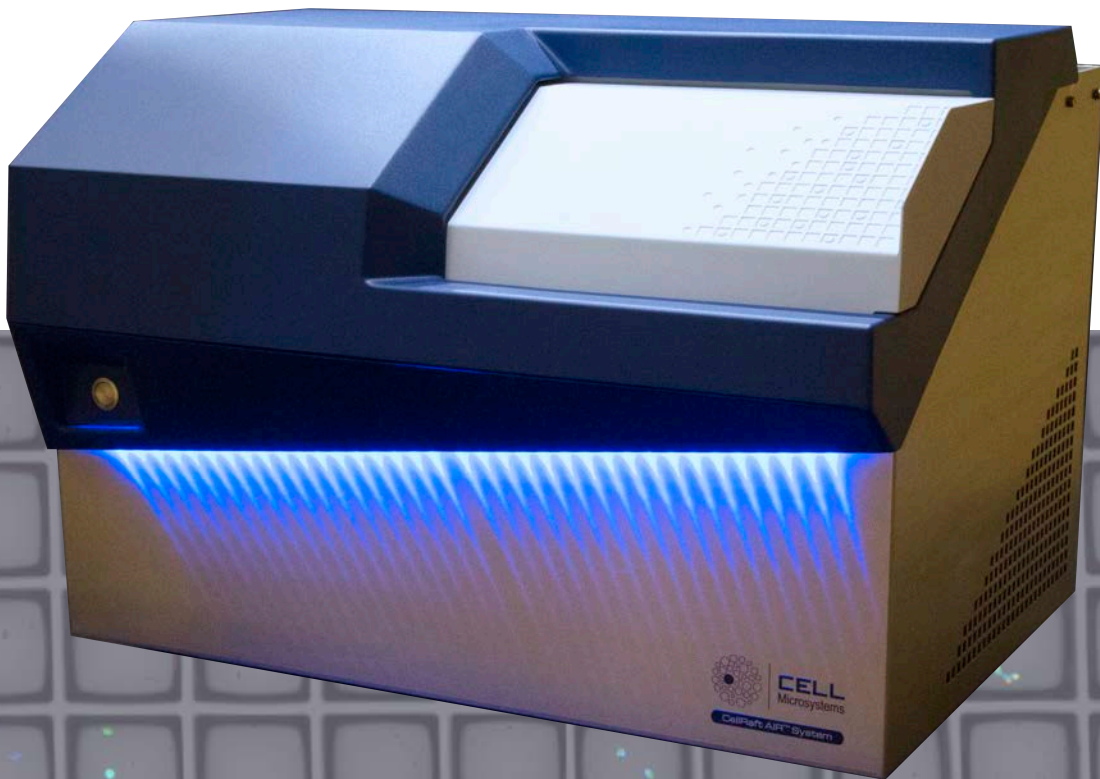
Imaging-based sorting to identify cell subpopulations by functional phenotypes

## Verified Single Cell Isolation

Track cell deposition in cell culture plates or tubes for molecular analysis

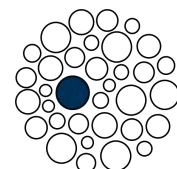
## Viable Clonal Colony Growth

Gentle cell isolation supporting iPSC colony growth and isolation



[cellmicrosystems.com](http://cellmicrosystems.com)

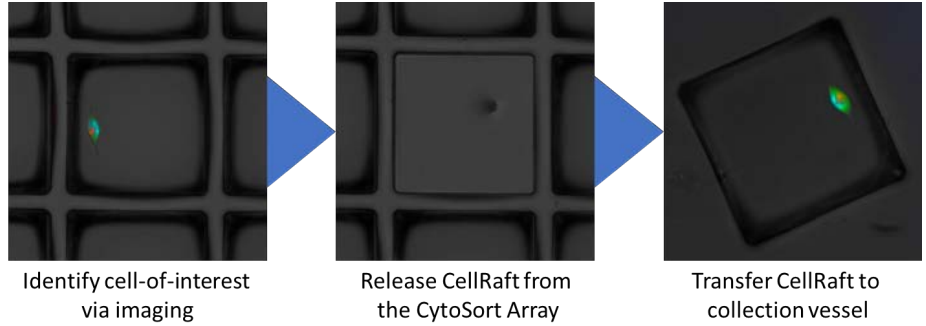
 @CellMicrosys



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# AIR Applications

- Single-cell genomics
- CRISPR gene editing
- Stem cell culture

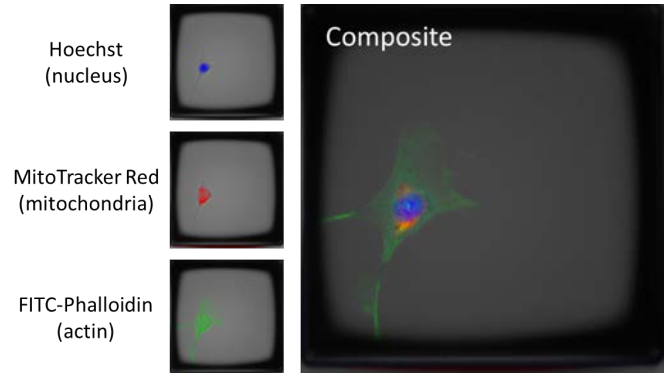


# AIR Imaging

• Cell can be imaged on the CytoSort Array using the automated CellRaft AIR™ System or on standard laboratory microscopes.

• Excitation-emission specifications below

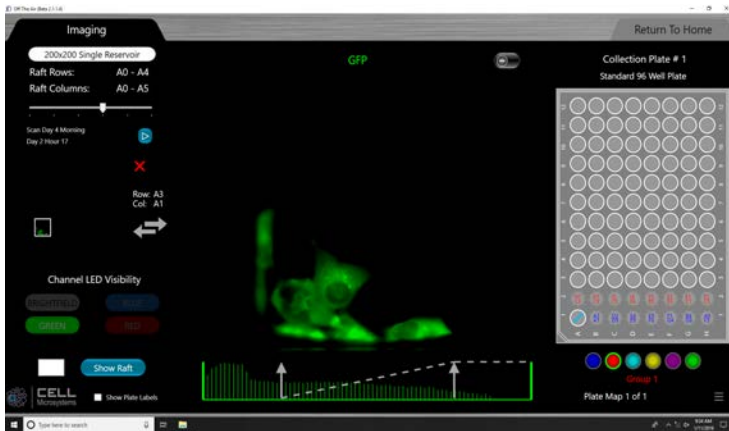
Channel	Representative Dyes	Excitation	Emission
Blue	Hoechst	378-401 nm	412-453 nm
Green	FITC	460-490 nm	497-548 nm
Red	Texas-Red	559-591 nm	602-805 nm



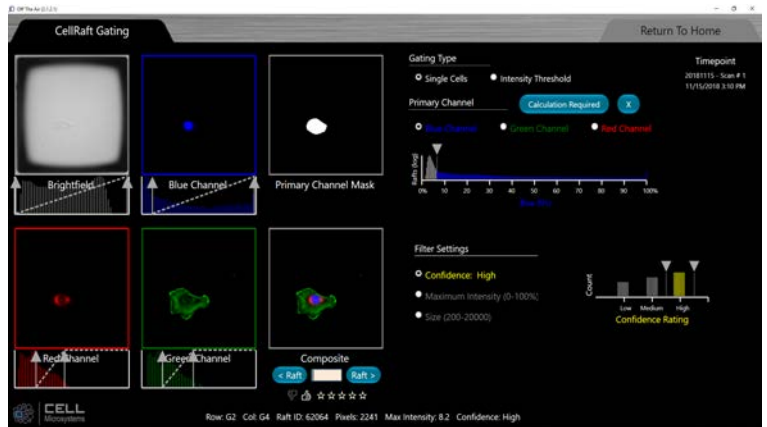
# AIR Software

- Optimize imaging parameters
- Data is collected in a database for off-line analysis

- Use imaging to verify colony clonality
- Automated sorting by fluorescent or brightfield imaging



*Zoom in on a given CellRaft and select for collection*



*Sort cells based on fluorescent or brightfield images*

# AIR Specifications

- Bench-top instrument
- Attached computer
- Optional stage-top incubation system
- Start-up kit comes with CytoSort Arrays and Accessories

Size	20" High; 20" Deep; 27" Wide
Weight	125 lbs
Magnification	8X Total (10X objective; 0.7X AI tube)
Camera	1.2 X 1.4 mm field of view; 14-bit; 6 MP
Power	115 VAC, 8/4 A, 60 Hz
Certifications	ISO 61010, FCC emissions

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