

Alpha Technologies launches the latest technology in **single & rare** cell manipulation & analysis.

Research Will Never Be The Same With...

“ **The DEPArray™ Platform** ”



DEPArray™ V1

Now you can **Array, Analyse, Image & Sort** every **one** of your rare & precious live cells.

Cells remain **Pure, Single & Viable!!**

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The **DEPArray™** is a patented technology developed by **Silicon Biosystems**, it exploits microelectronics and the principles of dielectrophoresis to isolate and manipulate cells in a suspension matrix.

This innovative technology offers the unique possibility of controlling individual cells and micro-particles inside a disposable cartridge.

The **DEPArray™** platform makes it possible to sort, image, select, move and collect individual rare cells .

### **The DEPArray™ Applications**

- ◆ Rare-cell Sorting
- ◆ Cell-sorting of small cell-loads
- ◆ Investigation of cell-cell interaction
- ◆ Single cell immunophenotyping
- ◆ Drug delivery

### **The DEPArray™ Disciplines**

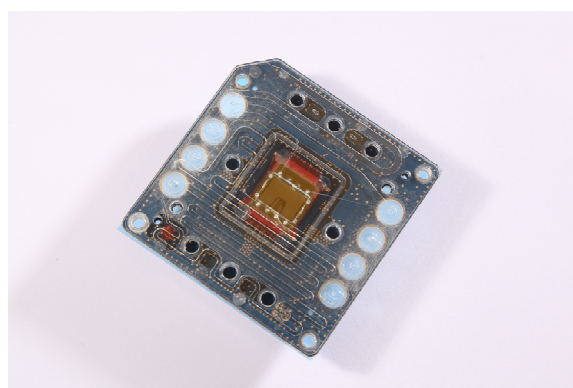
- ◆ Oncology
- ◆ Immunology & Rheumatology
- ◆ Stem cell biology
- ◆ Neurobiology
- ◆ Drug Development

### **The DEPArray™ Benefits**

- ◆ Unprecedented Selectivity.
- ◆ Sorting cells on multiple parameters & real images.
- ◆ Individual cell operation for increased flexibility.
- ◆ Can recover individual cells or groups of cells multiple times.
- ◆ Works with small cell suspension
- ◆ No sticking due to contactless cell manipulation inside the microchamber
- ◆ No clogging as the DEPArray does not rely on capillaries or micromachined channels.
- ◆ Cells remain pure & viable.
- ◆ Easy to use as the DEPArray is highly automated.

### **The DEPArray™ Specifications**

- ◆ Single cell resolution - Active 0.35µm CMOS
- ◆ Active area over 300,000 Electrodes
- ◆ Optimal cell load range 0-100,000
- ◆ Manipulation of live & fixed cells
- ◆ Compatible with PBS & culture media



**DEPArray™ A300K Chip**