

Using Cellenion's unique single-cell isolation and dispensing technology enables high throughput automated dispensing of individual beads from bead suspensions onto a substrate of your choice.



Two different PolyAn beads arrayed as single beads using CellenONE® technology.

Fluorescence encoded, monodisperse PMMA (poly methyl methacrylate) beads :

- Purple beads:  
12.8 µm PolyAn Red5  
Excitation: 490–680 nm  
Emission: 660–730 nm
- Orange beads:  
21 µm PolyAn Orange  
Excitation: 470–540 nm  
Emission: 520–580 nm

Biocompatible PMMA beads for live cell applications .

A collaboration between:

**cellenion**  
ENHANCING LIFE

[www.cellenion.com](http://www.cellenion.com)

**PolyAn**  
molecular  
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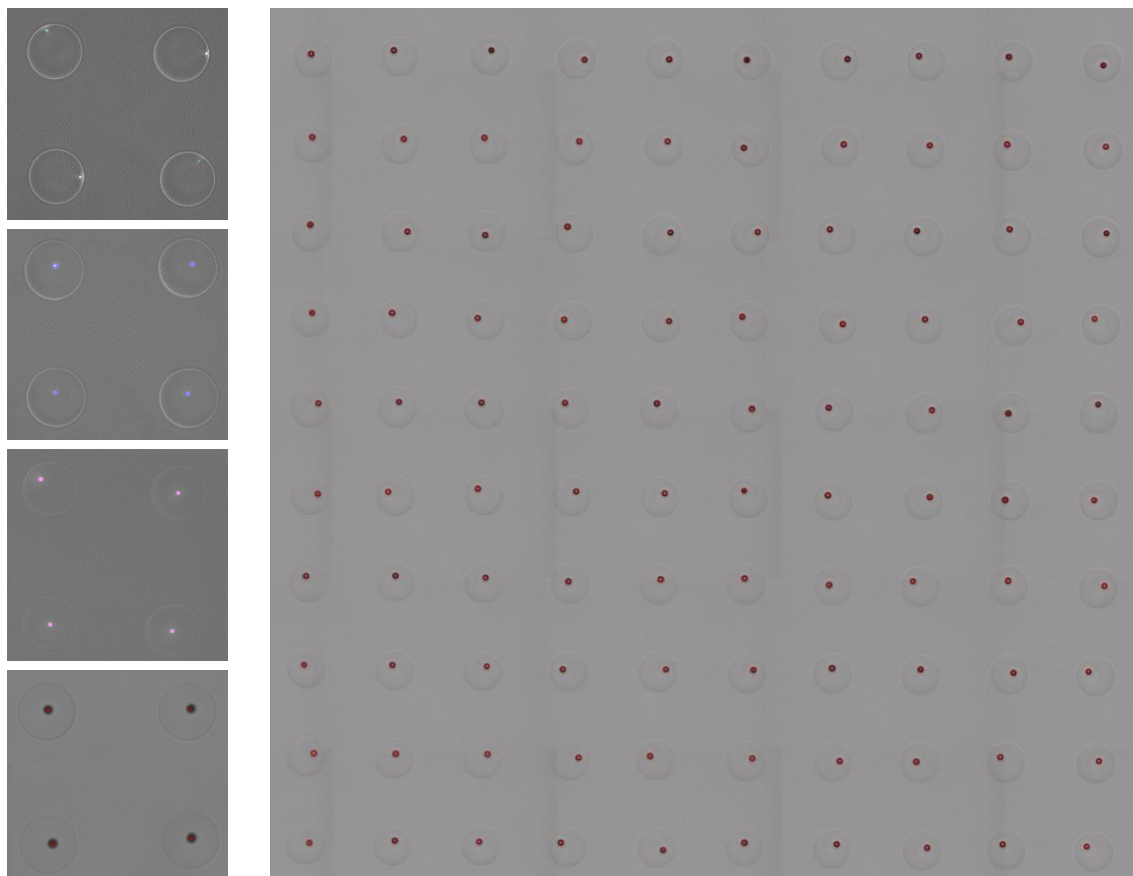
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CellenONE® allows the isolation and dispensing of a wide variety of microbeads sizes with diameters ranging from 2µm to 21µm.



(Left) example of sub array printed with different microbeads (from top to bottom: 2.2 µm PolyAn Green Beads, 4.3 µm PolyAn Blue Beads, 6 µm PolyAn Spectrum Calibration Beads and 9.45 PolyAn Orange Beads).

(Right) An array of 10 x 10 single 21µm PolyAn Orange beads printed onto a microscope slide (merged images from phase contrast and relevant fluorescent filter).

## Benefits

- ✓ **Accurate:** up to 100% single-bead isolation (forget Poisson distribution)
- ✓ **Fast:** isolate and dispense 100 single beads in less than 4 minutes.
- ✓ **Open platform:** dispense into/onto any type of multiwell plates (96, 384 or 1536) or microwells
- ✓ **Versatile:** works with a range of bead sizes, concentrations and solution composition