





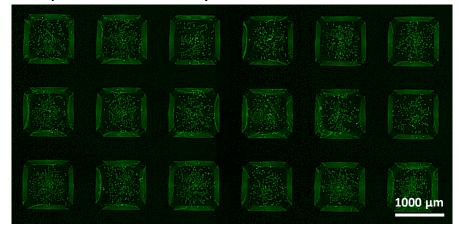
Droplet-Microarray Technology

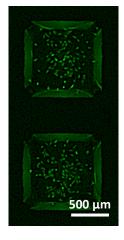
The Droplet Microarray platform enables highly miniaturized high throughput screenings of live cells in nanoliter droplets. All types of cells (cell lines, stem cells, primary cells of adherent and suspension nature) can be cultured and treated in droplets followed by analysis using conventional microscopy-based read-out assays. In addition to conventional 2D cell culture, the Droplet Microarray platform is compatible with screening of cells in 3D environments by means of spheroids and scaffold-based cell culture models.

Dispensing cells using Certus FLEX (Fritz Gyger AG)

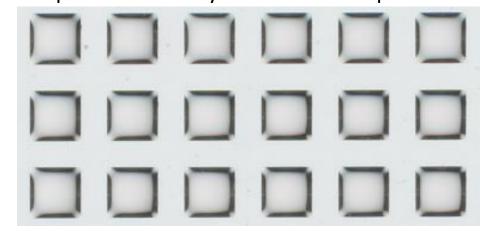
HeLa-CLL2 cells were dispensed on Droplet Microarray with Certus FLEX (Fritz Gyger AG) using 0,20/0,10 mm 21769, 23686 valve. Dispencing of an array of **672 droplets** of **150 nL** containing **100 cells** with 1 valve took **52 seconds**. Number of cells per droplet was estimated using microscopy and viability of cells was analysed 20 hours after dispensing. Distribution of cells across the slide was homogeneous and viability of cells was 93±4%.

Droplet - Microarray with HeLa cells stained with Calcein





Droplet - Microarray with 150 nL droplets



Direction of printing

Number of cells per droplet

