dragonfly® discovery

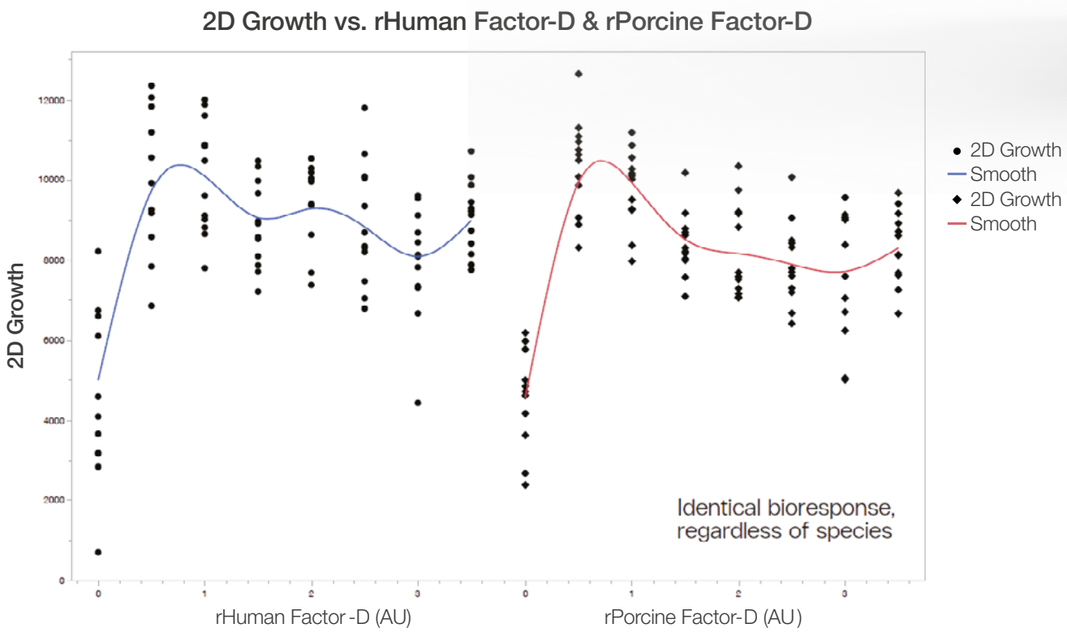
Precision designed for cell-based workflows

- Gentle cell handling
- Reproducibility across plates and users
- Intuitive user-friendly software
- Maintenance-free

Accelerate media optimisation

Independent 10-head dispensing enables ptimisation of multiple conditions simultaneously.

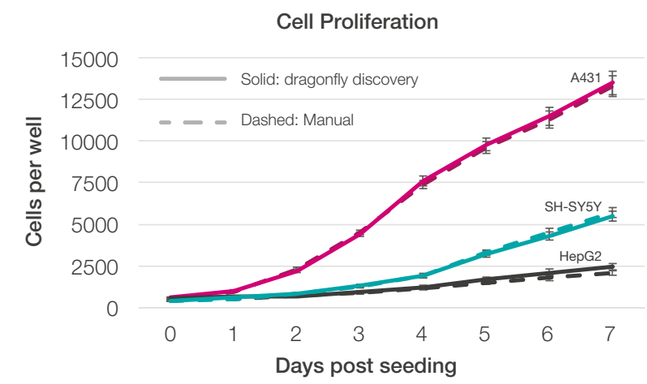
Save cost and time without compromising experimental design.



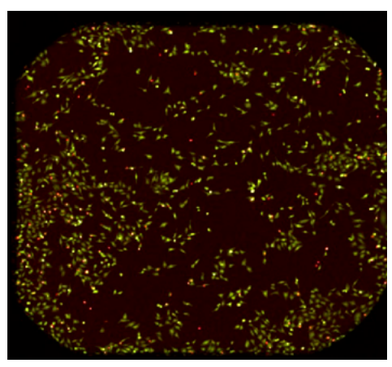
Three different concentration gradients of four media growth factor supplements were analysed in parallel in 384-well plate format. Optimized media formulation results in cost-saving of over 1000x compared with commercially available media.

Gentle Cell Dispensing in 96-, 384- and 1536-

Proven high viability across a range of cell types for continued healthy cell proliferation. Auto-feed reservoirs (AFRs) maintain cells in gentle circulation for homogeneous and consistent plating, even at high-density.



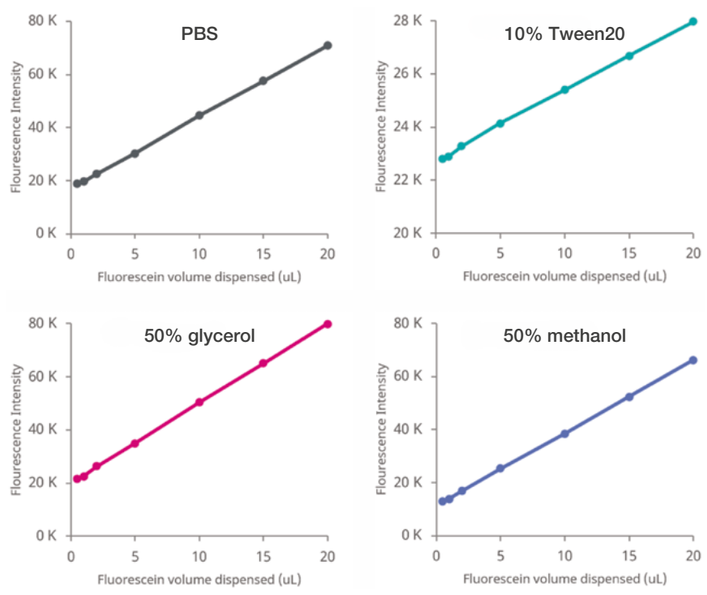
Cell proliferation was monitored for 7 days post-seeding (manual and dragonfly discovery) and showed equivalent growth kinetics across multiple cell lines.



HeLa cells were seeded into 384-well plates and incubated for 16 h The cells were stained with 0.5 µM calcein-AM/ 1.5 µM propidium iodide and analysed for viability.

Reproducible results for variety of end-point assays

Reliable setup for downstream assays and treatment workflows through consistent dispensing across diverse liquid classes. No liquid-specific optimization, no clogs, no drips – just reproducible experiments with minimal effort.

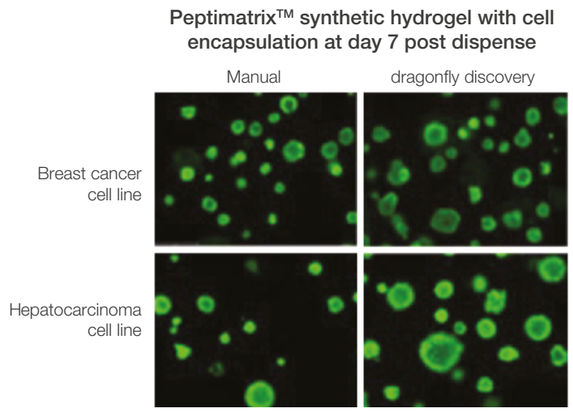


PBS, glycerol, Tween20 and methanol dispensed in parallel without complex optimization of settings. Very good linear correlation between volume of fluorescein dispensed and fluorescence intensity recorded.

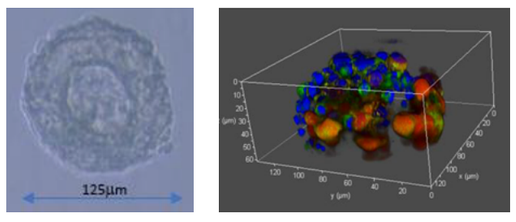
Automation in 3D

Validated in collaboration with leading organoid researchers: consistent organoid setup for results that reflect biology, not assay set up.

- Controlled dispense speeds
- Sterile
- Uniform droplets/domes
- Chilled reservoir for optimal handling of Matrigel



Peptimatrix™ synthetic hydrogel with cell encapsulation at day 7 post dispense



Representative images of organoids dispensed by dragonfly discovery.
Far left: Phase contrast image.
Left: 3D confocal image of fluorescently labelled cells within an organoid.

dragonfly discovery – precision dispensing for complex biology