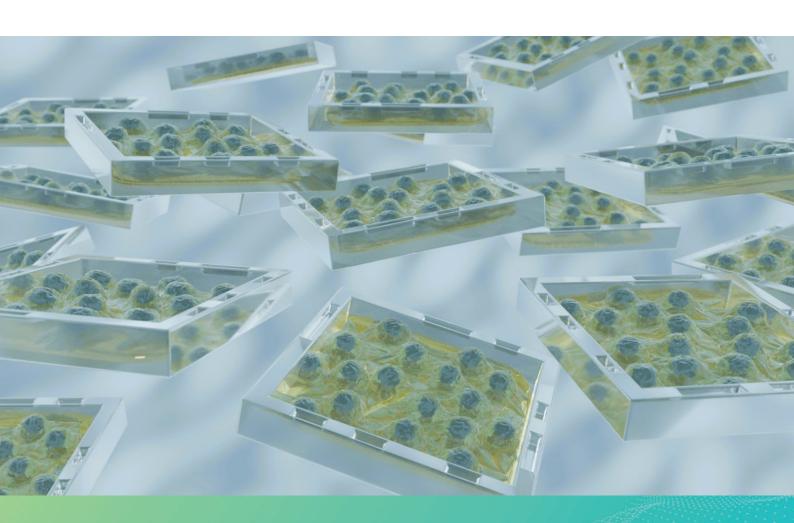


Flexibility for Adherent Cell Assays



## SemaCytes for More Powerful Assaying Workflows

Our proprietary SemaCyte® microcarrier platform leverages novel materials physics to move and barcode adherent cells. Our approach introduces flexibility, miniaturisation, and multiplexing into existing drug discovery workflows. This novel approach to cell assays makes it possible to produce better drug data, faster.



SemaCyte® assaying microcarriers function as ultra-miniaturized, barcoded wells which can carry small colonies of adherent cells.

These materials can be moved with liquid handling tools and their orientation can be magnetically controlled.

The SemaCyte® products include SemaDishes and peripherals which integrate seamlessly with read-out equipment such as plate readers and microscopes.

Our Semalyse software can digitally isolate the microcarriers and deconvolute barcodes.

This unique approach enhances existing research workflows and enables novel methodologies.

## SemaPure

magnetic purifie

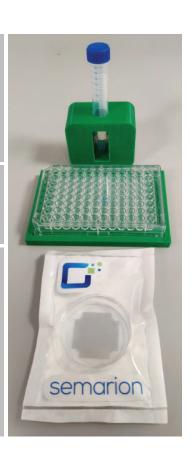
## SemaPlate

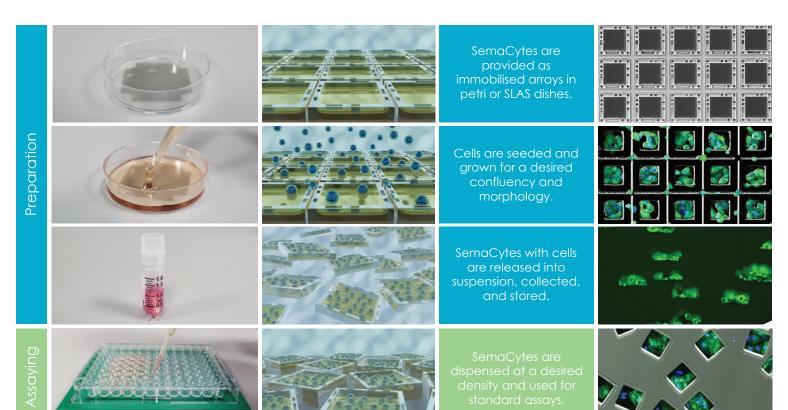
magnetic orientator

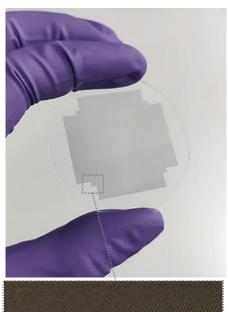
## SemaDish-20

20 cm<sup>2</sup> seeding dish

Alternative









Cell Attachment Polymer Functionalizable Gold Cap

Magnetic Heterostructure

Structural Photopolymer with Anti-Stick Coating

Non-stick Layer

Smart Release Polymer

SemaCyte® microcarriers are made using microchip fabrication, allowing for a high degree of control over their shape, properties, and features.

Our most common SemaCyte® microcarriers have a 100x100 µm<sup>2</sup> growth area and contain a syntehtic fibronectin-mimetic exctracellular matrix.



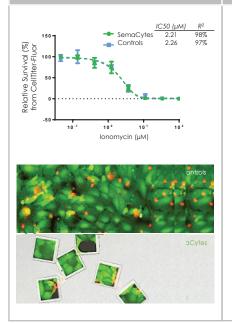
Increase Workflow Flexibility: 2-10x more data per experiment Freeze-and-Thaw Adhered Cells: 2-20x faster data generation Controllably Dispense Adhered Cells: 5-100x less cells used per assay

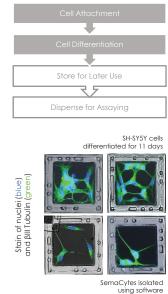


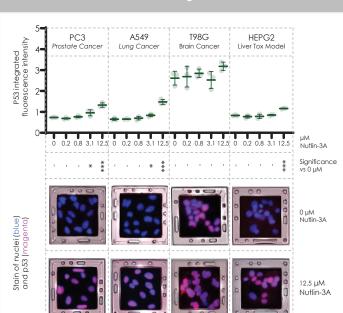


Optical barcode and combine different cell types

Multiplex Cell Models: 2-10x less time and cost for cell panel screening Multi-Cell Co-Cultures: 5x increase co-culturing capacity









To learn more about our **Early Access Programme**, contact us at info@semarion.com.

Let us enhance your cell assay workflows

