INVENTIA

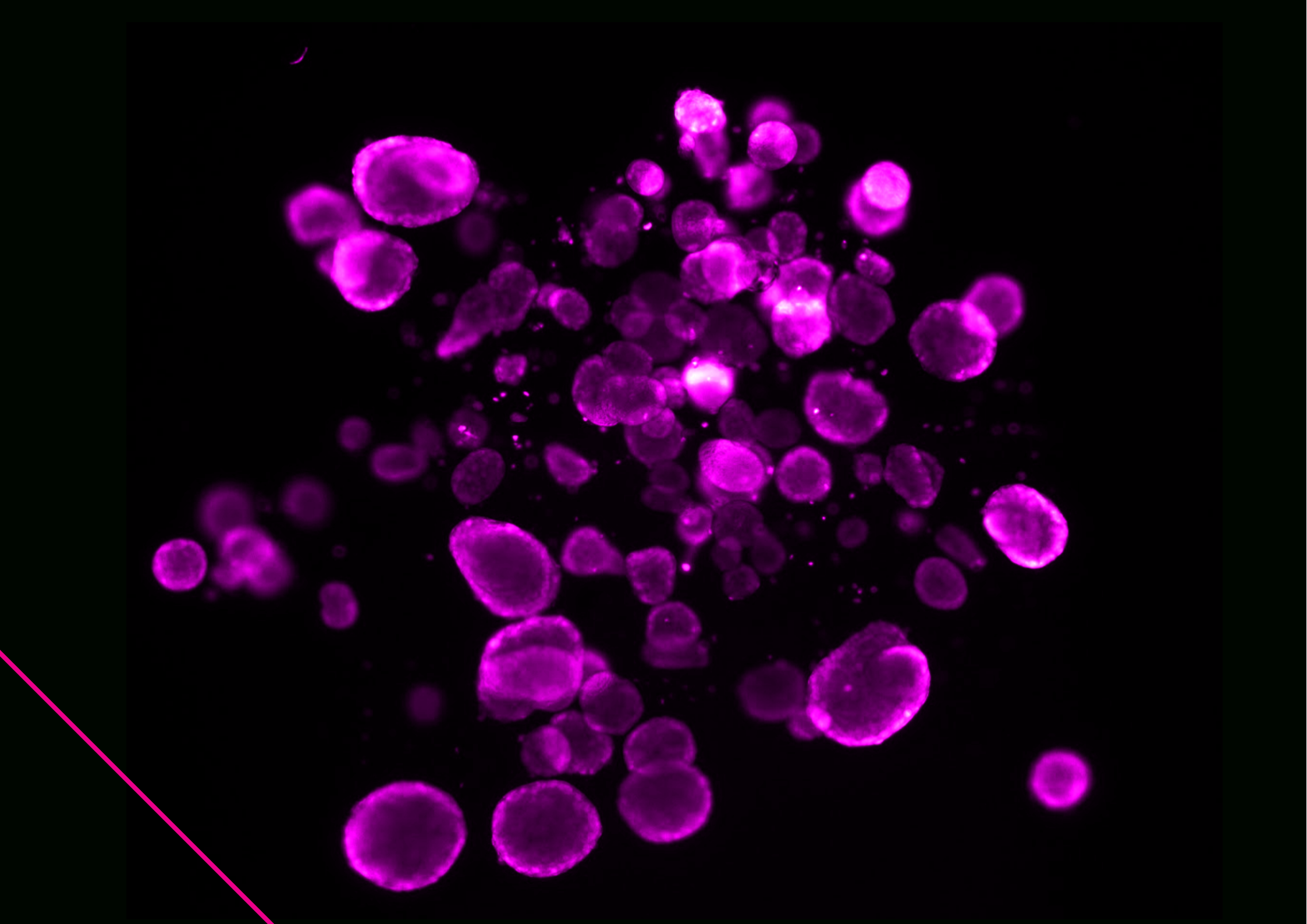
Inspiring Science

An ideal 3D cell model should be complex. Creating it should be simple.

The age of 2D cell culture is over.

3D cell models better represent human tissues and can replicate biological processes and drug responses more accurately.

Implementing physiological 3D cell models in your lab will accelerate discovery and help generate high-impact research. But adopting 3D cell culture has not been easy... until now.



RASTRUM

This is not your average approach to 3D bioprinting.

With its unique technology, RASTRUM places individual cell types and matrix components drop-by-drop and layer-by-layer to build a 3D cell model, giving you capability like never before to recreate in vivo biology.

We've spent years perfecting digital bioprinting technology for fast, scalable and reproducible generation of 3D cell models that you can trust.


RASTRUM
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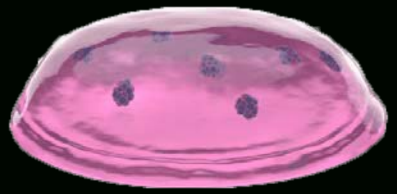
The future of biomedical research.

RASTRUM is built for 3D cell biology, accelerating drug discovery and biomedical research with the power of digital bioprinting.

The art of simplifying complexity

1. Design

Design your experiment without the need for 3D modeling or hydrogel engineering



2. Print

Easy and automated printing workflow to create your 3D cell model efficiently and reproducibly.

3. Use

Printed 3D cell models are compatible with standard culture and analysis.

Discover more with the ideal cell model for your experiments

RASTRUM 3D cell models provide meaningful data by using matrices that are:

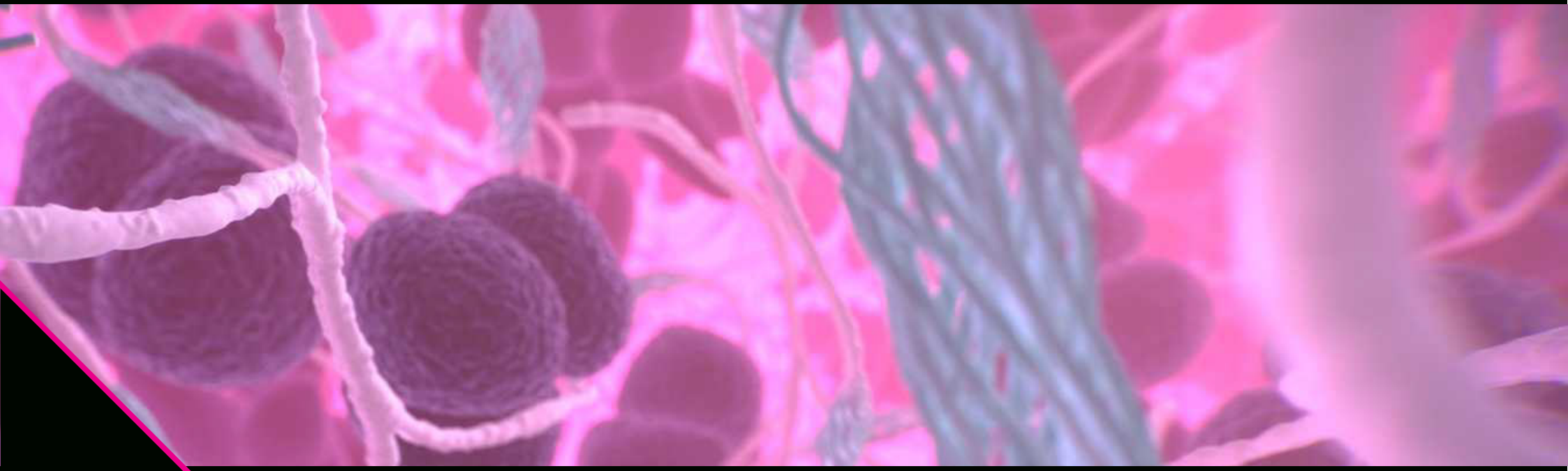
- Consistent batch-to-batch
- Permeable to antibodies, growth factors and small molecules
- Dissolvable to enable cell extraction

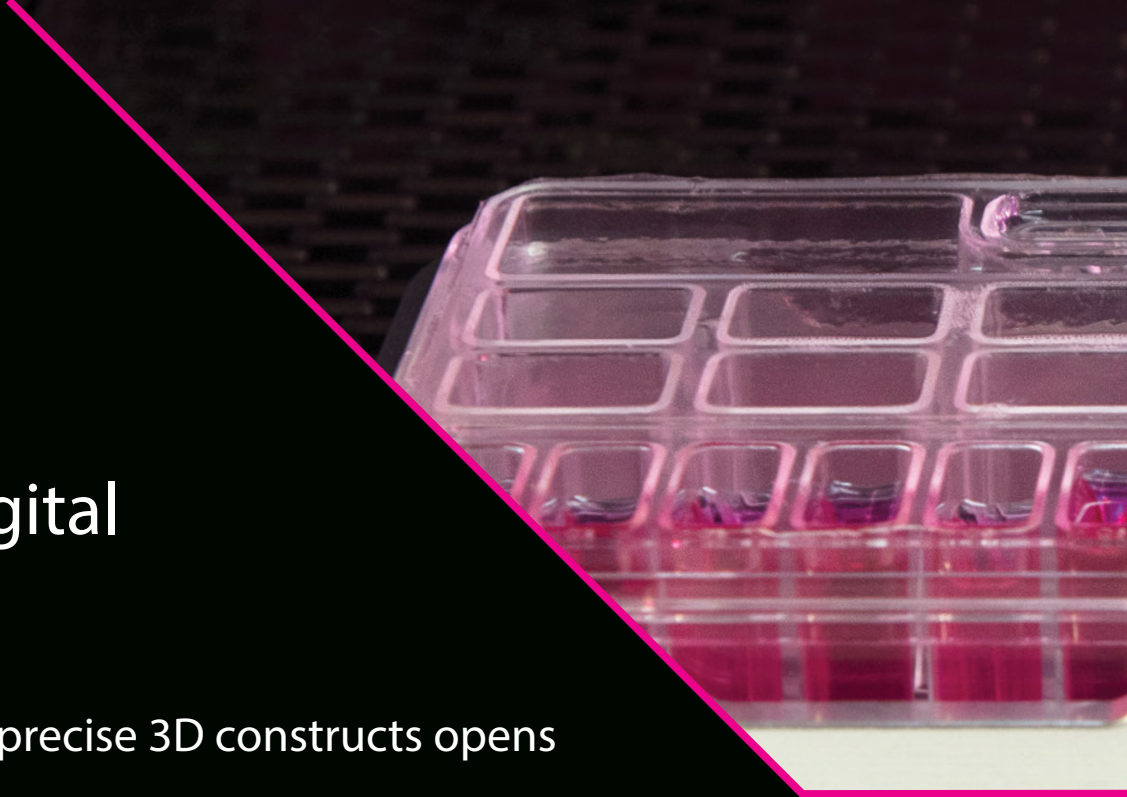
Tunable stiffness to provide physiologically relevant environments

Full-length proteins enriched in nautral extracellular matrices (i.e. laminin and collagen)

Modifiable adhesion peptides for mediating integrin binding

MMP-sensitive sites to enable cleavage of the matrix by cell-secreted proteases





Accelerate your research with digital bioprinting

The power to place cell and matrix components in precise 3D constructs opens up new experimental possibilities:

Fundamental biology

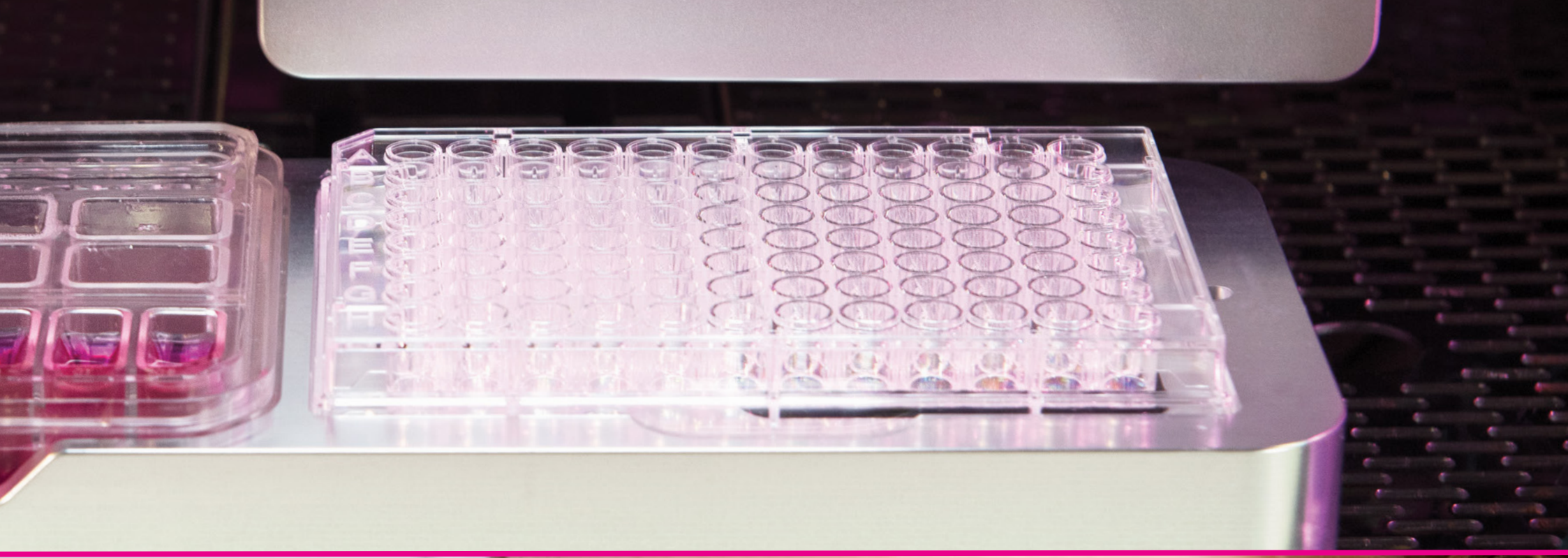
Improving your biological models using drop-on-demand bioprinting with synthetic modifiable matrix systems.

Drug discovery

Compatibility with standard analysis techniques to enable high-throughput cell imaging and quantification.

Personalised screening

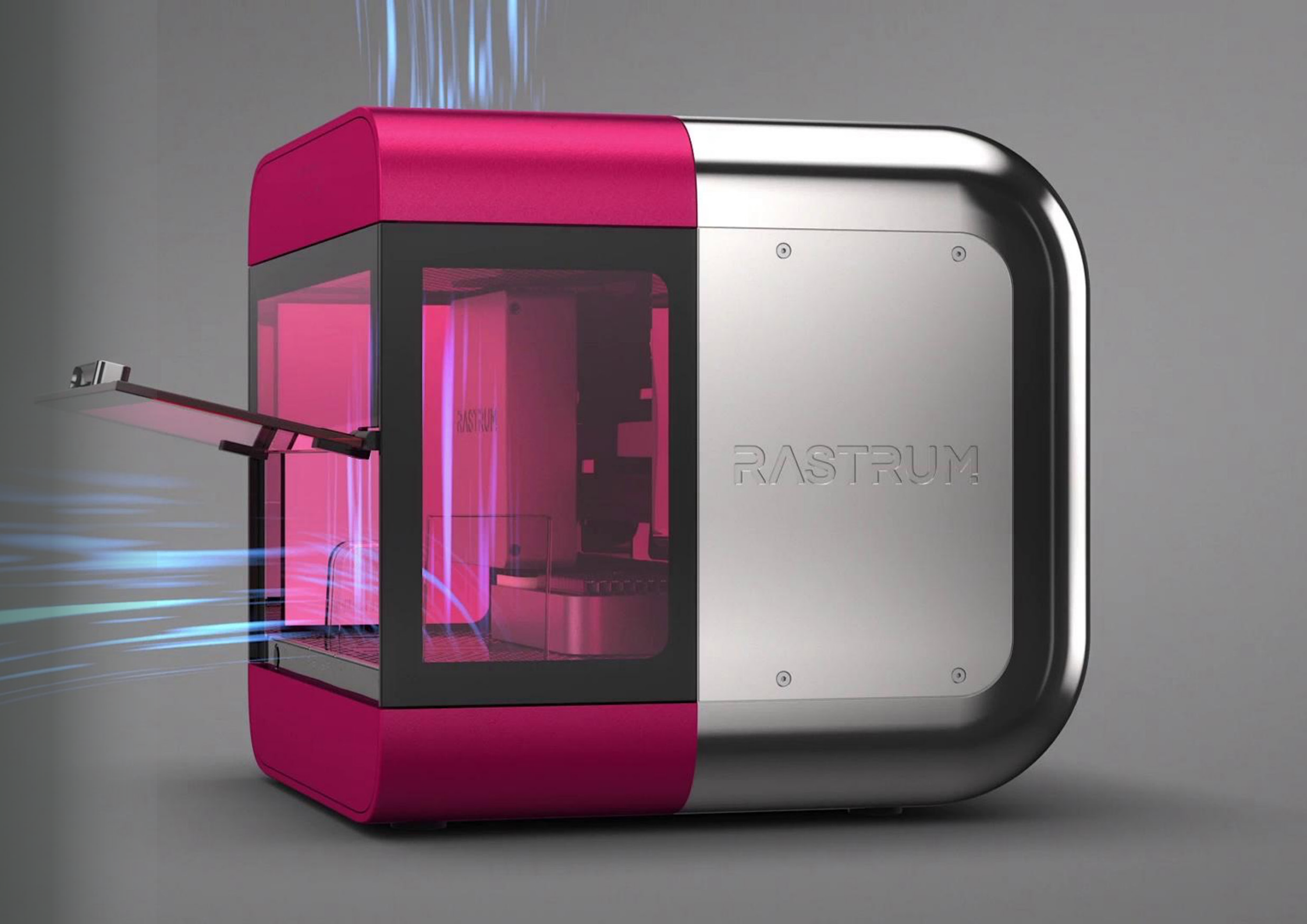
Achieving high quality patient 3D cell models easily with precise droplet control of matrix components and gentle deposition of cells with no loss in sample.



Turn your scientific ideas into reality

RASTRUM is compatible with your existing experimental workflow:

- Compact form factor for benchtop use
- Integrated clean chamber with dual HEPA filtration
- Low volume handling with negligible loss of precious samples


RASTRUM

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