

# 300MICRONS

Flexible 3D Cell Culture Solutions

## Flexible 3D Cell Culture Solutions

### Customer Statements

*“We will be able to offer more innovative screening assays. 300MICRONS products enable us to run unique high-content/ high-throughput-assays of adherent 3D cell cultures.”*

Dr. Rainer Class, Head of In Vitro Toxicology, Pharmacelsus GmbH



*„300MICRONS microcavity arrays are a very promising tool for three-dimensional cultivation of liver cells since all determined organotypic parameters show a far better performance in 3D than compared to monolayers.”*

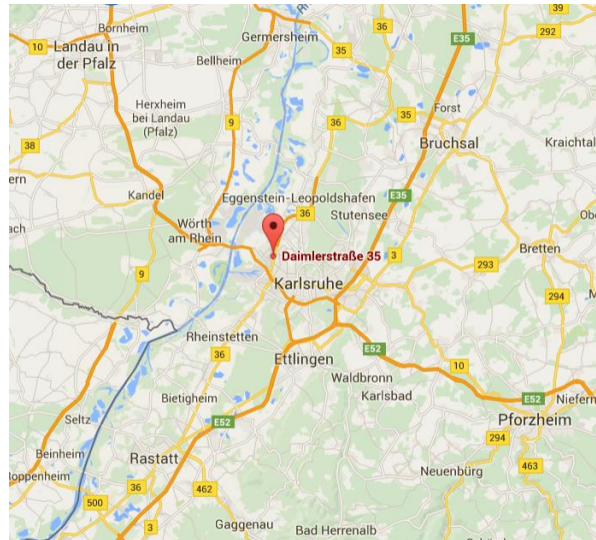


Prof. Dr. Andreas Nüssler, Head of Siegfried-Weller-Institut, BG Unfallklinik Tübingen

*“The microcavity arrays of 300MICRONS are ideally suited for co-culture of human hematopoietic stem cells with mesenchymal stromal cells (MSC) under active medium flow in a closed bioreactor.”*

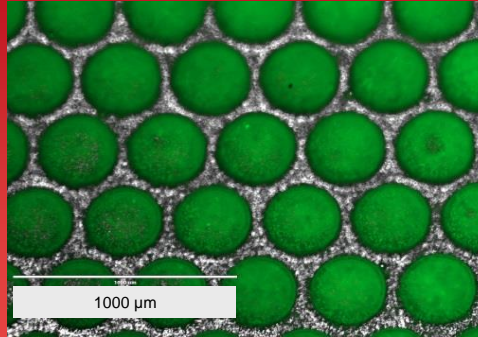
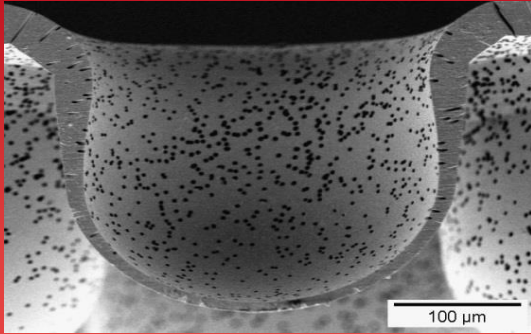
Dr. Patrick Wuchter, Medical [UniversitätsKlinikum Heidelberg](#) Clinic V, Heidelberg University Hospital

### Contact



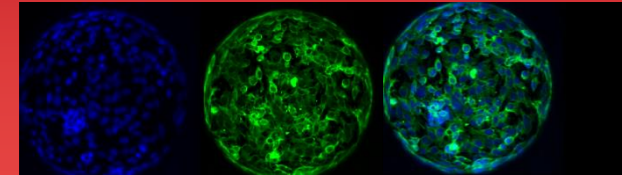
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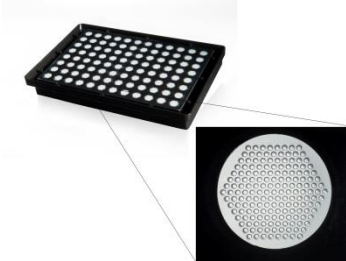


## Unique 3D Cell Culture Systems

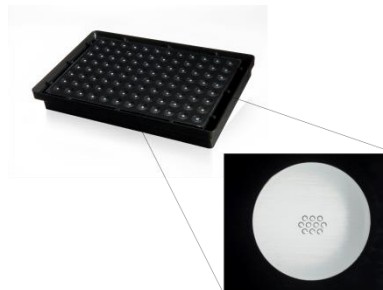
- Defined 3D cell culture micro arrays: more **organotypic** and thus more **relevant cell culture data**
- Defined size: **defined number of cells**
- Defined position of Microcavities: facilitates **simplified, reproducible retrieval in automatic screening**
- Flexible Microcavity size 20-1.000 μm: **optimized 3D conditions for each cell type**, single cell analysis possible
- Scaffold-free: **high microscopic quality** without diffraction artefacts, **easy RNA/ DNA extraction** for downstream analysis
- Cells & CRO services upon request.

## Microtiter Plates

96 Wells, 169 Microcavities/well Ø 300 μm: ideally suited for significant 3D cell culture production and robust read-outs



96 Wells, 10 Microcavities/well Ø 300 μm: ideally suited for optimized usage of precious primary cells



## Applications

- Spheroid generation
- High-Throughput-/ High-Content-Screening of adherent 3D aggregates
- Organoid culture, ...
- Toxicity assays (liver, tumor invasion)
- Stem cell maintenance and differentiation
- Regenerative Medicine
- In vivo research/ organism screening

## Therapeutic Areas:

- Diabetes (pancreatic islet cells)
- Neuroscience (neurotransmitter)
- Oncology (stem cell differentiation)