

# Upgrade Your Cell-based Assays to 3D

Work smarter with better biology

## 3D Microtissues: to make or buy

InSphero's scaffold-free 3D Microtissues are multicellular spheroids, which are morphologically and functionally very similar to native tissue. Easily amenable to standard biochemical assays, imaging and immunostaining, they are widely used for pre-clinical toxicity and efficacy studies to improve biological relevance. Close cell-cell contacts, a gene expression profile closer to in vivo and an intact endogenous extracellular matrix make them ideal models to improve in-vitro cell-based assays.

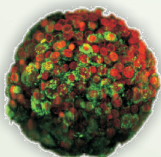
InSphero is the only supplier on the market that gives you the freedom of choice: You can use our assay-ready 3D InSight™ Microtissues in your lab or decide to out-source your compound profiling to our skilled team as a fee-for-service project. And, if you do not find a suitable 3D Microtissue in our catalog, use our patented GravityPLUS™ Hanging-Drop Platform to make your own. All global top 15 pharmaceutical companies use our technology today. When do you upgrade to 3D?

## insphero 3D-Cell-Based-Assay Continuum

### In-house Compound Profiling

#### 3D InSight™ Microtissues

- Assay-ready 3D Microtissues in 96-well format for predictive toxicity and efficacy testing
- Easy to use in your lab using our robust protocols
- Highly functional and standardized
- Liver, tumor, cardiac and many more tissues available



### Expert 3D Screening Services

#### 3D InSight™ Services

- Let our team profile your compounds using our patented technology
- Flexible high-quality service with fast turn-around times
- Custom 3D Microtissue and assay development for tailored solutions



### Cell Biology Research

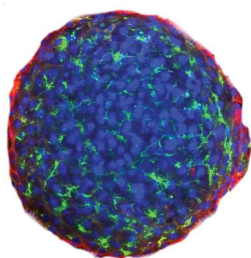
#### GravityPLUS™ Hanging-Drop System

- The leading 96- and 384 cell-culture solution for developing scaffold-free 3D Microtissues
- GravityTRAP™ Plates allow long-term culture and imaging
- 3D InSight™ Cell-Culture Media for perfect results



## Assay-ready 3D InSight™ Microtissues

InSphero offers a portfolio of highly functional, standardized 3D Microtissues delivered assay-ready in the GravityTRAP™ plate. These include tumor microtissues for oncology drug research, as well as human and animal liver microtissues for toxicology made with primary hepatocytes and non-parenchymal cells.



InSphero 3D microtissue facts:

- Best-in-class functionality
- Long culture time over weeks
- Scaffold-free, no unwanted matrix effects
- Highly uniform, less than 5% size variation possible
- Automation-compatible
- Available weekly

### Applications

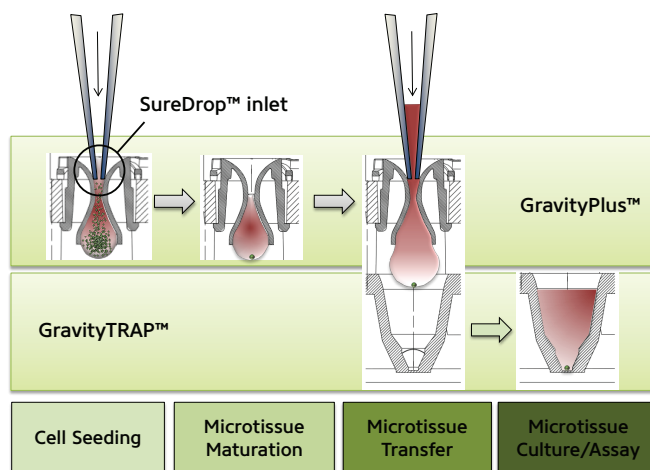
- Acute and long-term toxicity testing
- Predictive efficacy screening using organotypic co-culture models
- Target validation in 3D
- Stem-cell culture and differentiation
- Innovative high-content assays

## 3D InSight™ Cell-Based Assay Services

If you prefer to let InSphero's team of application experts handle compound testing and profiling for you, we offer a full range of flexible and reliable services at fast turn-around times. A wide spectrum of 3D-qualified readouts is available for toxicity and efficacy testing including biochemical assays, histology, high-content analysis, expression analysis and metabolic profiling. InSphero's scientists also develop custom 3D Microtissues and assays for your tailor-made solution!

## Patented GravityPLUS™ Platform

If you need to develop your own 3D Microtissues not available in InSphero's 3D InSight™ catalog, we offer our patented GravityPLUS™ Platform for scalable formation of uniform, scaffold-free 3D Microtissues in standard 96- and 384-well formats. You start from cell lines, primary cells or stem cells and – once formed – transfer the microtissues into the GravityTRAP™ receiver and assay plate which is designed for long-term cultivation and optical analysis. Compound testing with standard biochemical assays can be performed directly in the GravityTRAP™ plate.



*"With InSphero, affordable and robust 3D cell-based assays became a reality for compound screening. Today, all global top 15 pharmaceutical companies rely on our technology."*

*Dr. Jens Kelm  
President & Co-Founder*

For pricing and details, visit us at [www.insphero.com](http://www.insphero.com) or contact our local branch offices and authorized distributors.



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