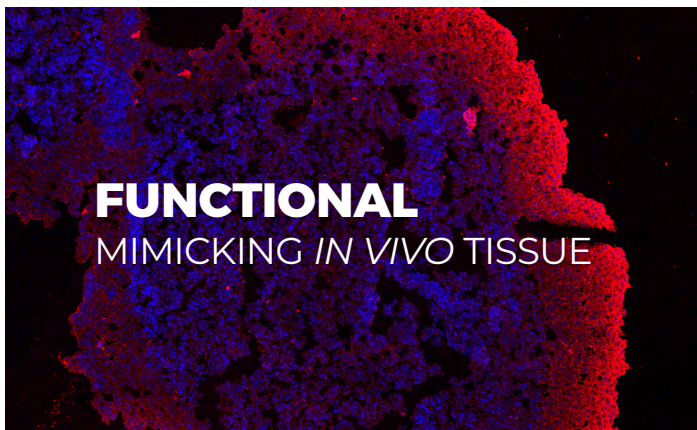


# TISSUE MODELS - UNLIMITED!

3D CELL CULTURE TECHNOLOGY MIMICKING  
*IN VIVO* PERFORMANCE

The ClinoStar™ grows cells in 3D with tissue-like structure and *in vivo* functionality. Low shear forces, good gas and nutrient exchange, create reproducible organoids and spheroids.



Cells become functional while they self assemble into tissue-like structures.

Primary cells retain and immortal cell lines regain ultrastructure and functionality of their parental tissue.

**Your model becomes relevant!**



Produce large numbers of uniform spheroids for your research

EACH CLINOREACTOR™ CAN HOST

350

UNIFORM SPHEROIDS

EACH CONSISTING OF

85.000

+/- 22 % CELLS\*

Toxicology Research; 2(2) 123-135; 2013

## PLUG N GROW

The transition from 2D to 3D is simple. You can continue to use the same media and environment in our system as you do now.



2D Culture



Same media  
Same conditions  
Better results!



3D Culture



**CELVIVO**  
STRESS-FREE 3D™

## CLINOSTAR™

THE CLINOSTAR ENABLES YOU TO CULTURE CELLS IN 3D

Intuitive software controls the temperature, CO<sub>2</sub> levels and each of the 6 clinostat motors independently.

Cameras allow you to see your experiments without opening the door. Leaving your cultures undisturbed.



## CLINOREACTOR™

THE ALL-IN-ONE BIOREACTOR

The inbuilt humidification system minimises the risk of infections.

Ports allow easy media exchange and multiple sampling.

Clear materials enable you to monitor and use a microscope for imaging.

## CONTROL UNIT

**The software allows you to:**

Define the environmental conditions (CO<sub>2</sub>, temperature and rotation).

See and capture images of your cultures.

Control up to 50 ClinoStars™.



Find out more about our products, the science behind them and the applications at [www.celvivo.com](http://www.celvivo.com)

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