

# 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.**



**FUNCTIONAL**  
MIMICKING IN VIVO TISSUE

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!**



**REPRODUCIBLE**  
ALLOWING YOU TO TRUST  
YOUR RESULTS EVERY TIME!

Produce large numbers of uniform spheroids for your research

EACH  
CLINOREACTOR™  
CAN HOST

**350**  
UNIFORM  
SPHEROIDS

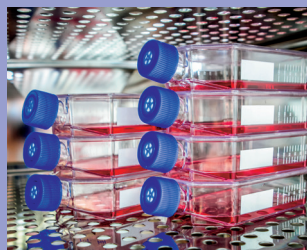
EACH CONSISTING OF

**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



**CEL VIVO**  
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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**CELVIVO**  
STRESS-FREE 3D™