

BioSpherix

# XVIVO SYSTEM

Closed Cell Incubation and Processing



Cells are totally isolated in closed system.



Incubators and other equipment open only into optimized and aseptic workspace.

## XVIVO SYSTEM

- *Controlled environment: temperature, CO<sub>2</sub>, O<sub>2</sub>*
- *more consistent phenotype*

### **Better Contamination Control**

- *Closed protects cells from people and room*
- *Closed protects people from cells*

REPRESENTED BY:



**BCASCIENTIFIC**  
INCORPORATED

3395 Brett Road, Mississauga, ON, L5L 4N7

[www.BCAScientific.com](http://www.BCAScientific.com)

Phone:905-820-6125 / Fax:905\*820\*8958



Cycentric Cell Incubation and Processing Systems®

# Xvivo System® X3



Physiologic environments for cells



Operator-friendly



Modular and customizable



Learn more!



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[Youtube.com/@cytocentric](https://www.youtube.com/@cytocentric)



[sales@biospherix.com](mailto:sales@biospherix.com)

BioSpherix LLC | 25 Union St, P.O. Box 279 Parish, NY 13131

### Xvivo System® X3

#### Physiologic environments for cells

- Control temperature, CO<sub>2</sub>, O<sub>2</sub>
- Incubator opens into a controlled cell handling space
- Reproducible, physiologic conditions

#### Operator friendly

- Soft, flexible glovefront
- Full-range of motion
- Ability to customize gloves

#### Modular and customizable

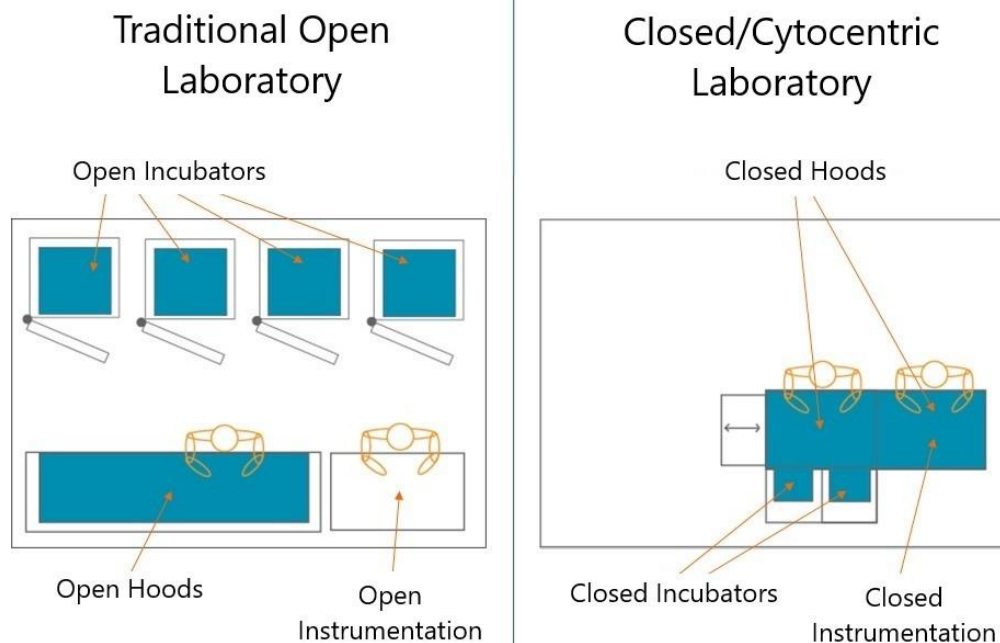
- Adaptable to changing needs
- Accommodates third-party equipment
- Control different conditions simultaneously
- Customizable to your needs



## THE NEW, QUALITY APPROACH TO CELL-BASED RESEARCH

### WHY IS IT BETTER?

1. Getting the most relevant, reliable, actionable information from cell-based research by physiologic simulation of temperature, CO<sub>2</sub>, pH, O<sub>2</sub>, and redox potential, not only at the point of analysis but, more importantly, over the entire cell workflow prior to analysis. Of course, many other factors have to be physiologic as well, but these critical cell process parameters are universal for all cells.
2. Generating data with the smallest standard deviation by (1) eliminating fluctuations in and transient suboptimal exposures to critical cell process parameters of temperature, CO<sub>2</sub>, pH, O<sub>2</sub>, and redox potential **over the entire cell workflow**, (2) eliminating antibiotics to avoid variable injury to cell mitochondria function by keeping aseptic conditions **over the entire cell workflow**, (3) eliminating overt and covert (ie. mycoplasma) microbial contaminations by keeping aseptic conditions **over the entire cell workflow**, (4) eliminating insidious and variable cell toxicities from unintentional fumes or residuals of microbial biocides by keeping aseptic conditions **over the entire cell workflow** without biocides (patented).

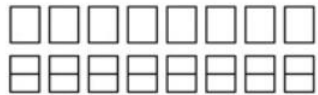


## MODULAR & UPGRADEABLE

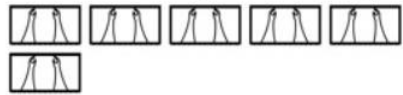
In contrast to conventional cell culture and processing in open incubators and open hoods, the Xvivo Platform® consists of modular sets of closed incubators and closed hoods, all integrated together as co-chambers and sub-chambers. Modularity allows an infinite variety of different configurations. All are completely closed, with aseptic conditions throughout, and advanced controls wherever needed (including dynamic control). Microscopes, analyzers, sorters, and all other common cell tools can be integrated as well. **For the first time, cell needs can be met by one efficient system.**

### Standard Xvivo Modules Library

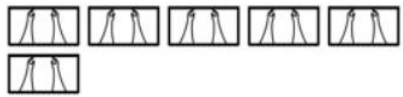
Buffer Chambers/ Air-locks



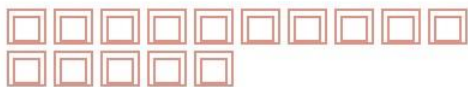
Closed Hoods/ Processing Modules



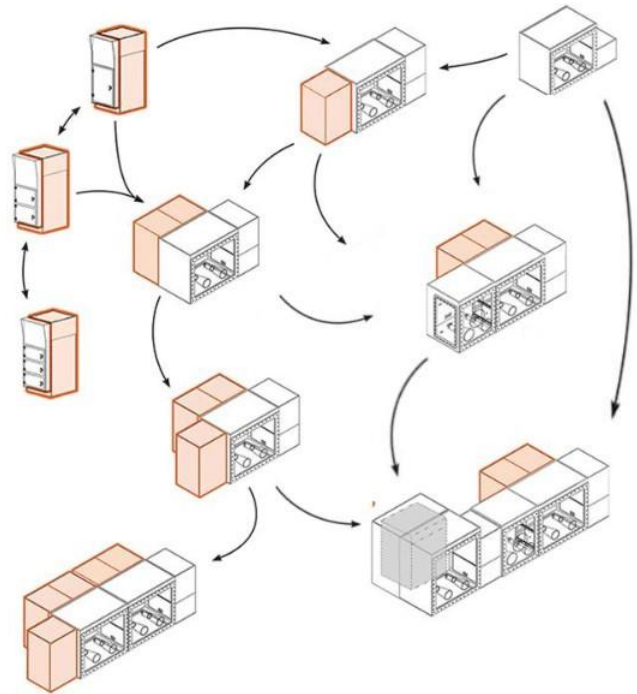
3rd-Party Equipment Modules (Plate reader, analyzer, microscopes, etc.)



Incubation Modules

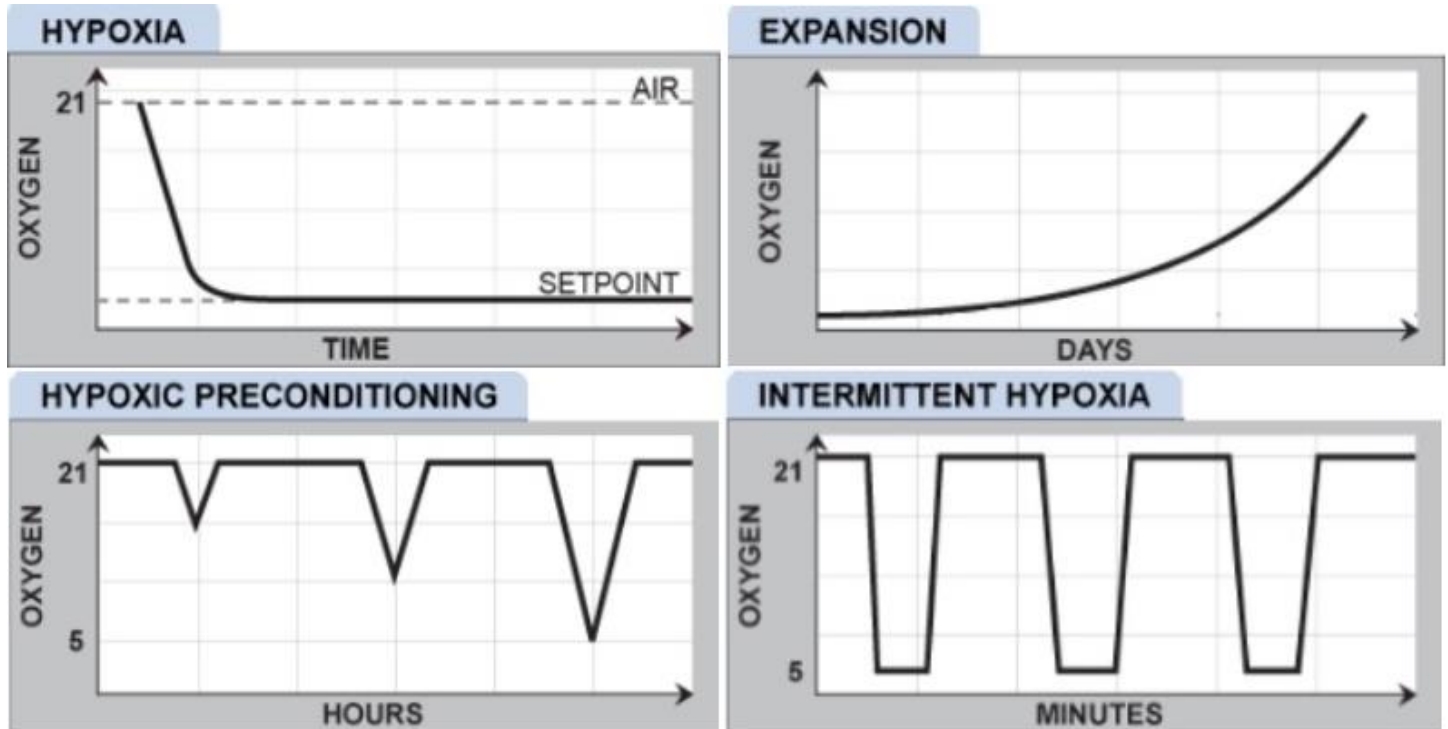


### Limitless Configurations/ Upgrades



## DYNAMIC

Our incubators are integrated into the hoods where you need them, and open only into the hood. In addition, **some or all** of the incubators can be equipped with **dynamic control** to keep up with the changing dynamics of any cell population.



## IN SUMMARY:

- Cells are NEVER exposed to dirty room air. Only aseptic. No need for antibiotics in the media or harsh biocides for cleaning.
- Cells are NEVER exposed to room air O<sub>2</sub>, CO<sub>2</sub>, or temperature. Physiologic relevance, reproducibility, and predictability – maximized.
- Start with what fits your budget, space, and requirements now. Upgrade later as your needs change.
- Equip some or all incubation with dynamic/ pre-programmable gas controls for intermittent hypoxia, hypoxic pre-conditioning, expansion protocols, etc.



EXAMPLE SYSTEMS:



