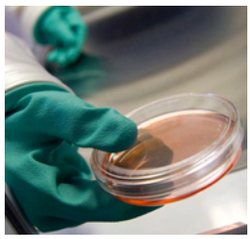
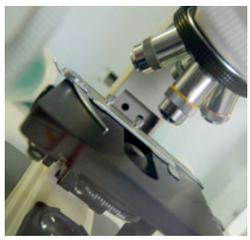
BioSpherix

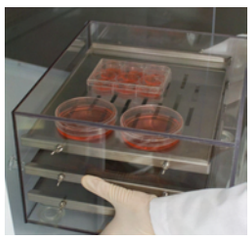
Xvivo Workstation

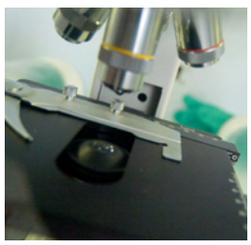
WORLD'S MOST POWERFUL CELL CULTURE INCUBATION SYSTEM

The ***Xvivo System*** is a new concept in aseptic cell culture and processing. Dedicated incubation chambers have been integrated into "hoods". However, instead of open hoods they are closed. The incubation chambers open only inside a hood. The entire system is closed. The critical cell environment inside the system is not only aseptic, but is also controlled at the optimal conditions known to be best for cells. Cells are never exposed to suboptimal conditions or contaminants or the people in the room.







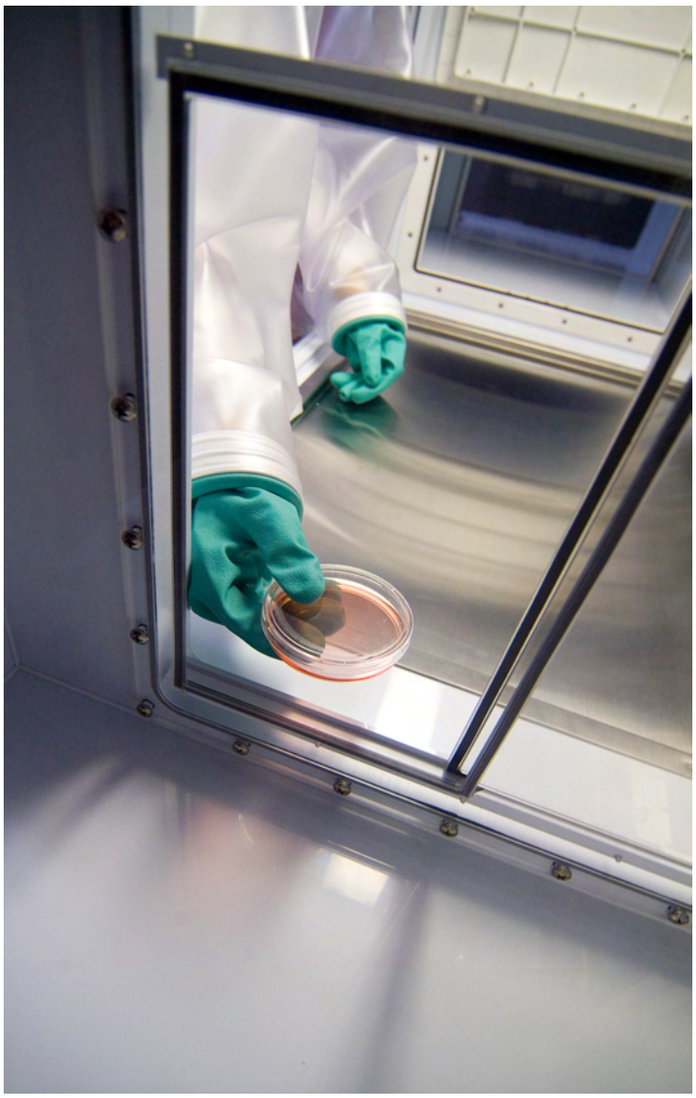


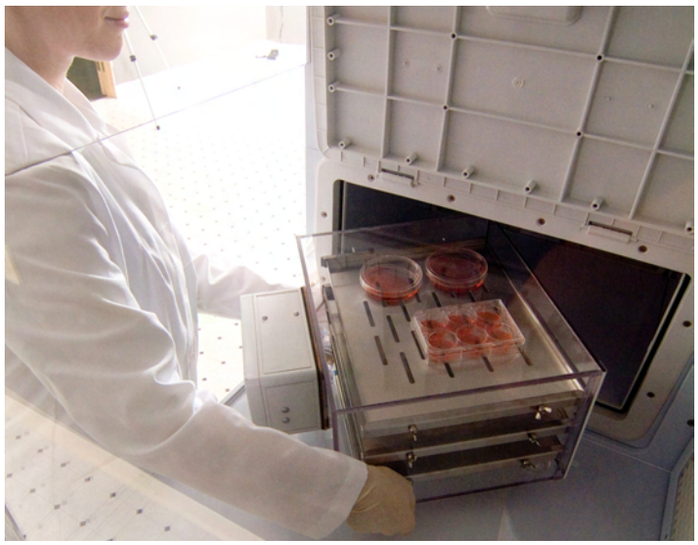
NOT YOUR TYPICAL INCUBATOR

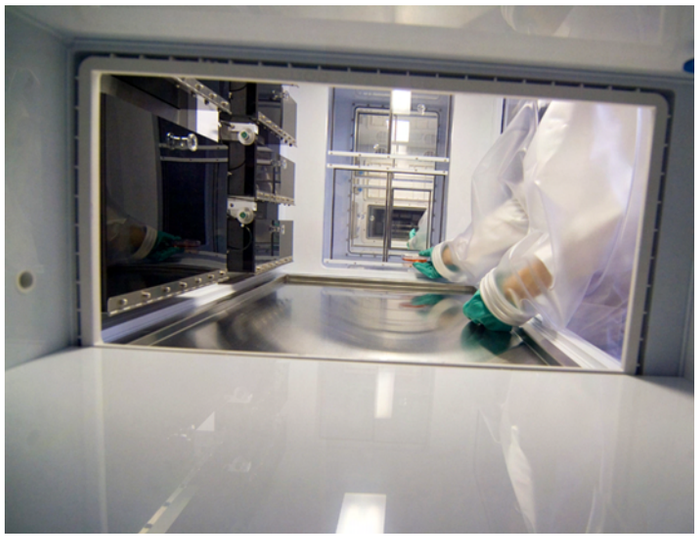
Multiple independent high performance O_2/CO_2/CO/NO incubation chambers can be integrated in any number and any combination of sizes into the system. “High performance” means unprecedented new ability to manipulate cell phenotype. Each chamber can be dedicated to one culture, or multiple cultures can be grown in the same chamber. Each different chamber can have a different set of conditions at the same time (eg. different oxygen tensions), and any single chamber can have dynamic programmable changes in conditions over time. Regardless of conditions inside any given chamber, the hood or workspace outside the chamber can replicate the same conditions before that chamber is opened. This makes it possible for the first time to never expose cells to anything but optimal conditions, even during lengthy processing procedures.

MICROSCOPES AND OTHER CELL PROCESSING EQUIPMENT

Not only are the incubation chambers integrated, but any equipment used to culture and process cells can be integrated inside as well. Modular interconnected processing chambers functionalized for various equipment can be added to the system for virtually any processing need. This frequently includes microscopes and centrifuges, but can also include cell sorters, cell counters, chromatography columns, bioreactors, filtration systems, water baths, etc. During processing inside these equipment modules the cells remain under optimal and aseptic conditions, isolated from the people and room outside. If required, the entire laboratory can be put inside the system.







CELL BASED THERAPIES

The U.S. Department of Health and Human Services estimates the market for Regenerative Medicine will be $500 billion. However, before this market can be realized, a lot of research and development must be accomplished. The Xvivo System has the power to accelerate research by a large factor.

As cell candidates are discovered that have therapeutic potential a reliable production process must then be developed. The Xvivo System has the versatility and expandability to evolve into a practical and economical mini production facility for pre-clinical and clinical studies. It offers a superior quality product over traditional open hoods and open incubators in open clean rooms. It offers huge savings in time, money, and risk compared to the traditional bricks-and-mortar clean room alternative, especially for autologous therapies near the point of care.

Finally, it offers an enabling vehicle for the rollout and commercialization of such therapies that prove effective.

Authorized Representative

ABOUT US: Since 1982 we've been making unique tools for bio medical scientists. Our tools help you manipulate and control biologically active gases (O_2, CO_2, NO, CO, O_3, H_2S, etc.) in both ***in vitro*** and ***in vivo*** applications. We build controllers, chambers, partial systems, and complete systems. We can even "soup up" any existing third party equipment. If necessary, we can customize to ***exactly*** fit your needs. We guarantee solutions.

"We make biological atmospheres, and make them work for you"

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