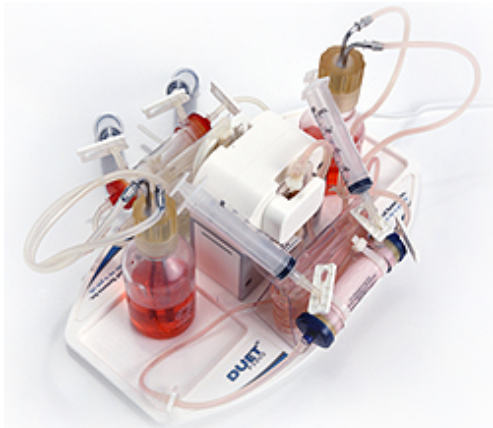




EXPRESSIONS

Obtain 100x Greater Cell Culture Productivity with FiberCell® Systems Hollow Fiber Bioreactors

AUGUST 2015



Request your **FREE**
Video Instruction Manual

Phone: (301) 471-1269

Email: info@fibercellsystems.com

Web: www.fibercellsystems.com

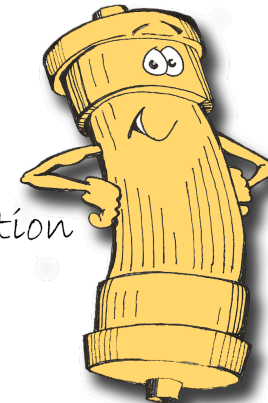
Welcome to the summer edition of the Expressions Newsletter from FiberCell Systems. It's been a beautiful summer so far, we are hoping you all have been enjoying it. When we haven't been relaxing by the pool or paddling around in a kayak we have been very busy!

New! FiberCell Laboratories Inc. Your bioproduction partner.



We are most excited to announce that we have formed a new partner company to FiberCell Systems Inc. For 15 years FiberCell Systems has been the leading supplier of laboratory scale hollow fiber bioreactors. FiberCell Laboratories was established as your bioproduction partner serving as an extension of your laboratory. We can now provide you with all the power of a hollow fiber bioreactor without any capital investment. FiberCell Laboratories can perform monoclonal antibody production, recombinant protein production, exosome production, and conditioned medium generation in our labs, for you. Maybe you have a protein or antibody you wish to

Your
Bioproduction
Partner



Look for us at these events:

September 14-16
World Congress and Exhibition on Antibiotics
Las Vegas, Nevada

September 17-21
ICAAC 2015 Interscience Conference of Antimicrobial Agents and Chemotherapy
San Diego, Ca.

September 20-24
Protein Expression in Animal Cells Conference
San Diego, Ca.

produce but don't have the time or the capital budget to invest in a hollow fiber bioreactor system. Let FiberCell Labs do it for you!

FiberCell Laboratories
YOUR BIOPRODUCTION PARTNER

Request a Quote 303-471-1269
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FiberCell Laboratories is your bioproduction partner for contract manufacturing of cell derived products.

FiberCell Laboratories makes our experience your advantage. We have over 20 years of laboratory experience in the use of hollow fiber bioreactors for easy cell culture scale up with up to 100X greater productivity. Almost any cell that can be grown in a flask can be cultured in a hollow fiber bioreactor. Our experience can be your advantage to obtaining high quality product of interest.

Contract Services

- Monoclonal Antibody Production
- Recombinant Protein Production
- Exosome Production
- Conditioned Medium
- Virus and Vaccine Production
- Growth Factor Production

Hollow Fiber Advantages

- Secreted products concentrated up to 100X
- Complete and uniform post-translational modifications
- Reduction in contaminating DNA and intracellular proteins
- Easy adaptation to our protein free, chemically defined, animal component free cDM
- FDA Compliant serum replacement, CDM-HD
- Continuous production over many months can yield gram quantities of protein and antibody

Request a Quote
Call 303-471-1269

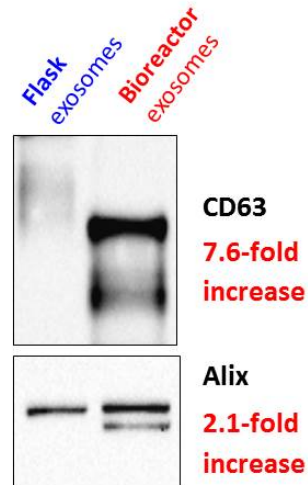
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www.fibercelllabs.com

Exosome production

Hollow fiber bioreactors are the ideal method for producing exosomes. They can culture large numbers of cell under in vivo like culture conditions and concentrate the secreted exosomes to a high degree. There is no need for serum starvation as serum containing medium can be circulating through the insides of the fibers but the endogenous exosomes cannot cross the fiber. Our poster from the ISEV meeting is on our [website](#) but the production data is summarized in the following chart.

Bioreactor is a rich source of exosomes



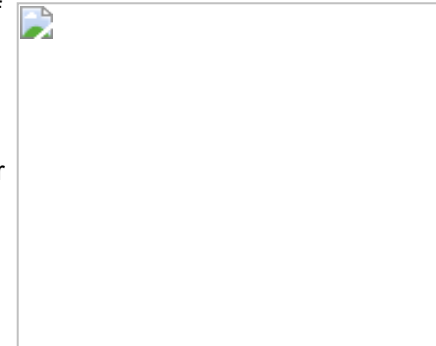
Sample	µg yield per ml sup
Conventional culture EVs (comparison protocol)	2.7 ± 0.4
Bioreactor EVs (comparison protocol)	33 ± 3
Bioreactor EVs (optimized protocol)	54 ± 2

>10-fold increase in exosome yield from bioreactor supernatants

*Dionysios C. Watson, Jenifer Bear, George N. Pavlakis
National Cancer Institute, USA*

TECH TIP! New glucose meter for cell culture

For many years we have recommended the use of a Roche Accucheck or Accucheck Plus glucose meter to monitor the glucose consumption of your cell culture. In June we learned that this particular chemistry has been discontinued. The GM-100 portable glucose meter from Bioreactor Sciences is a hand-held, economical glucose meter deigned for measuring glucose levels in cell culture medium. It is simple to use, quick reading and requires a very small sample size.



New Insight into Evolution!

While the debate still rages in Texas we provide the following proof that hollow fiber cell culture is the most evolved way to culture cells.



Request a FREE Hollow Fiber Video Instruction Manual (on CD-ROM)

The CD we will send to you includes the complete FiberCell® Systems User Manual, instructional video clips, our bibliography and more. There is no obligation. [Click here to proceed to the request form...](#)

CONNECT WITH US!



FiberCell Systems Instructional Videos



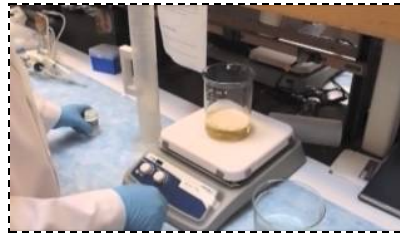
Setting up a FiberCell Systems Hollow Fiber Bioreactor: Demonstrating the first steps in setting up a hollow fiber bioreactor for pre-culture. [\[WATCH VIDEO\]](#)

Operation of a FiberCell Systems Duet Pump: Demonstrates the proper use and operation of the FiberCell Systems Duet pump. [\[WATCH VIDEO\]](#)



Harvesting 1.5 x 10⁹ 293 Cells from a FiberCell Systems Hollow Fiber Cartridge: It has long been

thought the it is not possible to harvest large numbers of cells from a hollow fiber bioreactor. [\[WATCH VIDEO\]](#)



CDM-HD, Chemically Defined Medium for High Density Cell Culture: CDM-HD is a chemically defined, protein free, animal component free cGMP compliant serum replacement optimized for use in hollow fiber bioreactors. This demonstrates the rehydration process. [\[WATCH VIDEO\]](#)

www.fibercellsystems.com
CALL TO ORDER: (301) 471-1269

www.fibercellsystems.com, FiberCell® Systems Inc.,
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