BIOTECHNOLOGY AREA

PLATFORM FOR CELL AND TISSUE CULTURE WITH CONCENTRICAL MOVEMENT

Device with a rotational movement that allows *in vitro* proliferation of cells.

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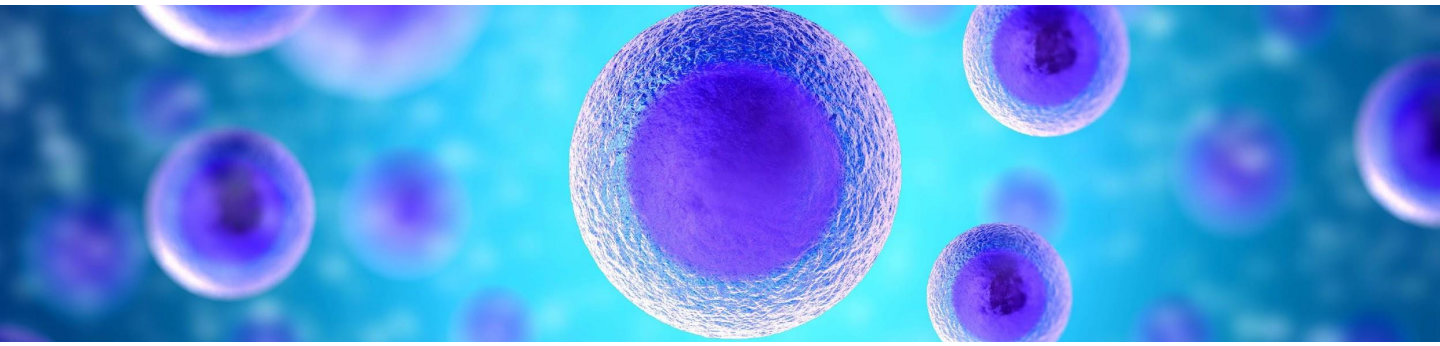

BACKGROUND

Cell culture is a basic tool in biotechnology processes, and is a key segment in the value chain of the stem cell market. Only the laboratory supplies (reagents, equipment) for stem cell management have a market size of $ 1.5 Billion USD (2010, global). The use of platforms for the growth and differentiation of stem cells has become a crucial factor for the research and development of new therapies based on cells and drugs.

TECHNOLOGY

It is a device with a concentrical rotational movement platform that allows proliferation cells *in vitro*. This device generates growth or expansion of cells in dynamic conditions which can favor higher percentage of cellular growth vs. traditional cell culture methods.

KEY BENEFITS

- Higher cell production performance vs typical agitation systems
- Optimizes cell culture production times.
- It can be used inside a cell culture incubator.
- Independent cell cultures can be grown on the same platform
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DEVELOPMENT STATUS

- Proof of concept has been done with CD133+ stem cells, CHO cells and prostate cancer cells.

TECHNOLOGY READINESS LEVEL: 3/9

INTELLECTUAL PROPERTY

Patent Number: MX 335003

This technology is available for licensing. More opportunities on our website: http://redottec.com

Tecnológico de Monterrey

Av. Eugenio Garza Sada No.427, Col. Altavista
Monterrey, Nuevo León, México. C.P. 648449
(81)8358-2000 Ext. 5626
ott.mty@itesm.mx

OTT - Oficina de Transferencia de Tecnología del Tecnológico de Monterrey
OTT ITESM MTY
OTT Tecnológico de Monterrey