

CELLS

Cryopreservation of genetic material

| Nowadays

The current development of technologies applied to medicine is assuming a daunting revolution to come in the field of health care. For years researchers have managed to extract and preserve stem cells from blood and umbilical cord tissue of newborns to be used years later in the healing process of various diseases in the same patient, which turns out to be a natural remedy with spectacular results in many cases.

Stem cells extracted from the umbilical cord of the newborn in many cases involve a kind of "genetic insurance" for the individual.

Difficulties arise when we need to preserve these cells so they can be used at the right time. Today the facilities to address this need are usually very expensive and complex and necessarily include shipment to a public or private bank of umbilical cord blood samples for storage.

80

| DISEASES |

Currently cured with stem cells and that number grows every year

26.000

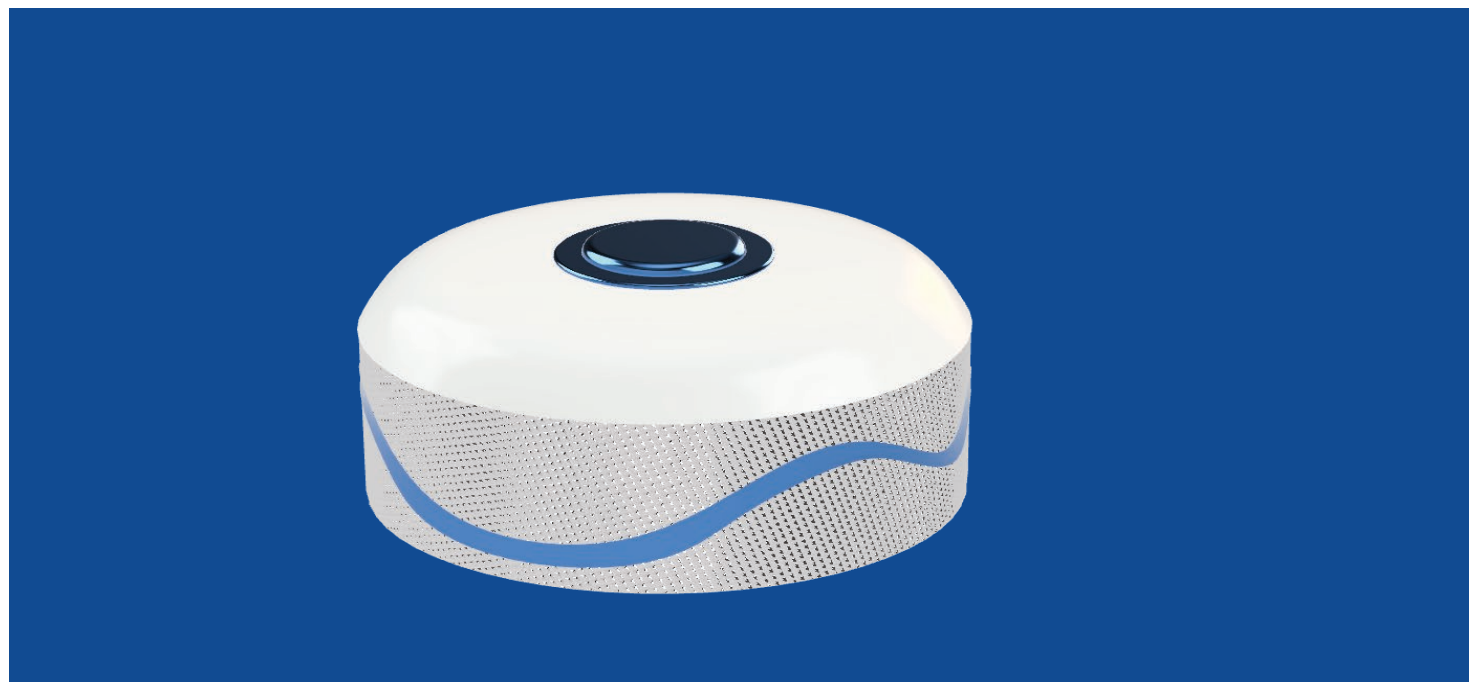
| PEOPLE |

Cured in Europe each year with stem cell treatments

15.000

| CHILDREN |

Born each year through assisted fertilization in Spain



| The Family Genetic Kit

This FGK (Family Genetic kit) manufactured and developed by the company GIBiomed, addresses these needs by offering an affordable alternative to the existing demand. On one hand, the device drastically reduces the costs of the process of cryopreservation, and secondly, being a small appliance to be installed in the household, eliminating the need for shipping and storage at public banks and/or private. The person himself (or the family) is the custodian of their genetic material, controlling at all times the location where it is deposited.

The product is a small appliance containing a number of vials which are housed with their timely cryoprotectors within the apparatus and cryopreserved by applying liquid nitrogen, at temperatures near to minus -196°C^* .



| Feeding liquid nitrogen

The device contains a generator of liquid nitrogen capable of producing the required amount of LN2 for the cryopreservation of the genetic material and that for safety reasons can be coupled with a triple electro-valve to a gas bottle with a LN2 solenoid, except that in the power supply network interruption generator for prolonged periods.

Otherwise the user will not have to worry about maintaining it, because the device is connected to the mains and hence it obtains the energy required for operation.

In the case of a power failure or the need for a shift, the product has the said auxiliary system that ensures operation at least for a certain period since the power outage suffered electric power.

PRODUCTS 2016

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CELLS

Cryopreservation genetics for everyone

| Vials

GIBiomed distributes from April 2016 a Brand new system of patented vials (straws) and sealants thereof designed to cryopreservation of ovules, sperm, embryos and blastocysts and later use in assisted reproduction techniques.

They are provided with their own seal device, the soluted means (free of protein of human or animal origin), the suction system (3 possible methods) and the container.

The main novelty of this product is the percentage of oocyte survival (about 95%) than for sealed straws provides an excellent percentage.

Most countries require the use of sealed straws in the whole process, currently having such a smaller percentage of oocyte survival in open straws.

The product is sold in kits of 10 individually sterilized and packaged straws, with five colors available for easy identification in clinic: yellow, pink, green, orange and blue. Each kit is of a single color. It comprises a capillary ultrathin straw assembly formed by 6 parts and an outer protective layer.

Our products help to solve the difficulties at this time to promote the safety and proper preservation of genetic materials including tissues that are cryopreserved. In the most simplified version of this device it is in practice a small appliance, which -with an affordable price- allows the user to keep it at home.

The device is a FGK (family genetic kit) that allows to have an effective cryopreserved remedy for doctors in the future to fight certain diseases of genetic root or other that the person can get over their lifetime. This device may, therefore, imply a small practical revolution within the context of health.

Today it is possible to preserve stem cells and other tissues in certain institutions, even though the process costs are very high, along with the difficulties and the practical accessibility limitations make them only available to few.

GIBiomed vision is that this device should be available to everyone. Thus, the process costs are drastically reduced, and it ensures that preserved cryo cells or tissues are then to be used -if necessary- for the end user and his/her family who guards it in their own cryo preservation unit.

We know that both the use of stem cells, and other tissues will be very important to fight a lot of serious illnesses. And it is equally true for the increasing demand in connection with assisted fertilization related to the preservation of ovules, embryos, semen and other tissues.

Such preservation is not reserved only to humans, but has a relevant weight in the animal kingdom, where the same techniques are practiced of breeding and selection are added.

The FGK genetic kit is a technological device including the production of liquid nitrogen, to have its own built-in generator. Thus, the device does not need to constantly replenish this essential element for cryopreservation - except in the event of an emergency- and it is fully autonomous. It incorporates a system of constant synchronization of all maintenance, which allows us to visualize these in real time, anytime, anywhere, through an ad hoc app accessible from this device.

At present there is no any appliance in the market with these features and it constitutes undoubtedly a small revolution in devices within the context of preventive health and medicine.

Main features of FGK

