

# OOZOA Biomedical, Inc.

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## PRODUCTS UPDATE – October 2008

As part of its ongoing support of past and current clients, Oozoa will periodically send updates on products or materials that were recommended either during an Operational Performance Review or as part of an ongoing consultancy relationship.

### HD Scientific launches a new generation of IVF workstations at ESHRE 2008

The IVF Chamber that we have been using since the early 1990s was recently replaced by a new generation of workstation, the *emCell*. This new version has several significant advantages over the original:

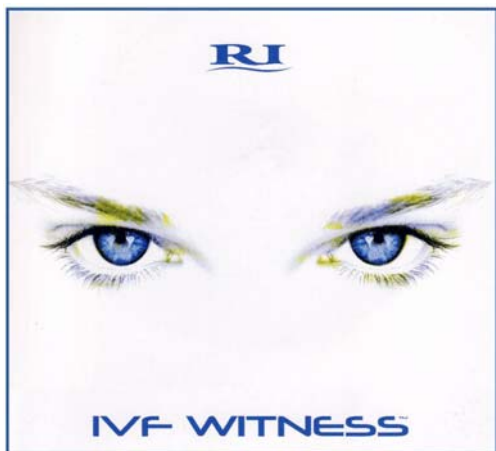
- Provides a temperature-, humidity- and CO<sub>2</sub>-controlled environment.
- Internal atmosphere is both HEPA- and VOC-filtered.
- 2 models: *emCell-s* for stereozoom microscopes (fibre optic light source) or *emCell-i* model for inverted microscopes.
- Operator can work seated either at a fixed location or using a height-adjustable mobile base.
- Delay start timer to conserve power & gas, or for morning start-up.

The *emCell-s* is strongly recommended for all operations where oocytes, zygotes or embryos are being handled or examined in bicarbonate-buffered media outside a CO<sub>2</sub>-incubator. The *emCell-i* is ideal for performing more detailed assessments using an inverted microscope – or a full ICSI rig can be installed into the *emCell-i*.

For more information on the *emCell* chambers see [www.hdscientific.com.au/products/cell\\_biology/emcell\\_i/](http://www.hdscientific.com.au/products/cell_biology/emcell_i/) or contact Dieter Regel at HD Scientific <[Dieter.Regel@HDScientific.com.au](mailto:Dieter.Regel@HDScientific.com.au)>.



### Research Instruments *IVF Witness*



After several years in development, the RFID-based *IVF Witness* system from Research Instruments has become a powerful tool that should be given serious consideration by all assisted conception laboratories. *IVF Witness* helps reduce the opportunities for human error during all laboratory procedures by:

- eliminating sample identification errors and mix-ups;
- tracking patient samples throughout the IVF procedure;
- automated sample matching with 100% read reliability;
- removing the need for double-witnessing; and
- generating witness reports at the touch of a button.

In addition, reader stations incorporate a heated stage for dish temperature control during sample identification.

The system is customizable and allows the user to determine the level of detail at which witnessing is applied.

Clients for whom Oozoa is designing new or refurbished laboratories will be offered the opportunity to “future-proof” their new facility by incorporating provision for *IVF Witness* workstations in their electrical and data cabling.

For more information on *IVF Witness* (including customer testimonials) see [www.ivfwitness.com/](http://www.ivfwitness.com/) or contact Justin Retallack at Research Instruments <[justin@research-instruments.com](mailto:justin@research-instruments.com)>.

## Planer Assure24seven monitoring / alarm system

Laboratory and equipment monitoring system systems are appearing in increasing numbers of ART laboratories, especially in jurisdictions where the regulatory authority requires more comprehensive monitoring of equipment and/or the working environment. Depending on the sensors installed, they can offer far more than a simple “dial-out” equipment alarm system. The *Assure24seven* system from Planer includes the following functionality:

- Monitoring of:
  - incubators: sensors for temperature, CO<sub>2</sub> and O<sub>2</sub> concentrations and relative humidity;
  - refrigerators and freezers: temperature sensors;
  - cryotanks: sensors for low LN<sub>2</sub> level and temperature; and
  - ambient air: sensors for particulates and volatile organic compounds (VOCs).
- Logging: maintaining a constant record of all measurements, along with details of any alerts, alarms, operator actions, etc.
- Alerting when problems occur, by conventional visual and audible annunciators, as well as “direct” options including telephone messages, e-mail, text (SMS) messages.
- Reporting: via graphical and written reports for easy visualization of data, events and trends.
- Accessibility: since the system has a web-based interface it can be accessed remotely from anywhere via the Internet.
- Security of the system’s operation and integrity via “all’s-well” messages.
- Being computer network-based, the system has inherent expansion capability (e.g. additional sensors to monitor incubator door openings, or cryotank lid openings).



Cost-benefit analyses have shown that these systems could pay for themselves within 2 years, even for small laboratories, when their capabilities are used to the full (see Mortimer & Di Berardino, Alpha Newsletter, October 2008).

Clients for whom Oozoa is designing new or refurbished laboratories will be offered the opportunity to “future-proof” their new facility by incorporating provision for the *Assure24seven* system in their electrical and data cabling.

For more information on the Assure24seven system, see [www.assure24seven.com/](http://www.assure24seven.com/) or contact Ravi Dattani at Planer <[RDattani@planer.co.uk](mailto:RDattani@planer.co.uk)>.

## CBS High Security Vitrification Kit

We have been using and recommending CryoBioSystem’s *High Security Straws* for cryopreservation of human gametes and embryos for more than 10 years due to their physical robustness (even at cryogenic temperatures) and the ability to achieve total biocontainment. More recently CBS have released a vitrification packaging device, the *HSV Kit*, with the same characteristics.

For clients who wish to vitrify specimens rather than cryopreserve them, we strongly recommend that they should consider using the HSV Kit in order to achieve maximum biocontainment of vitrified samples.

For more information on the HSV kit see [www.cryobiosystem-imv.com/](http://www.cryobiosystem-imv.com/) and click on “Vitrification” under the A.R.T. banner, or contact Philippe Clairaz at CryoBioSystem <[ph.clairaz@cryobiosystem-imv.com](mailto:ph.clairaz@cryobiosystem-imv.com)>. For full information on the range of high security products from CBS, as well as a basic cryobiology primer, download the free monograph at [www.cryobiosystem-imv.com/Portals/3/PDF/Monograph.pdf](http://www.cryobiosystem-imv.com/Portals/3/PDF/Monograph.pdf).



## Alltech Hydrocarbon Traps for Incubator Gas Lines

We have been recommending the use of Alltech’s hydrocarbon traps in gas lines to incubators and IVF Chambers for more than 10 years. However, Alltech is now part of Grace Davison Discovery Sciences, and the URL given to clients previously is now incorrect. The new URL to download the catalogue for these products is [www.discoverysciences.com/uploadedFiles/Site\\_for\\_Catalog\\_2008/gc/GC\\_Accessories/Gas\\_Purification/gas\\_purification.pdf](http://www.discoverysciences.com/uploadedFiles/Site_for_Catalog_2008/gc/GC_Accessories/Gas_Purification/gas_purification.pdf)