

# Cryo-Storage of Adult Stem Cells From Fat

Bio-Medicine.Org

PF AFFIKON, Switzerland, May 21, 2010 /PRNewswire/ --

- Europe's Leading Stem Cell Bank Launches Innovative Service for Liposuction Market

Cryo-Save today announced the European introduction of Cryo-Lip, a new product that allows the collection, processing and storage of a rich mixture of adult stem cells from liposuction aspirate (fatty tissue that is normally discarded). A novel cryopreservation process for fatty tissue has been developed and submitted as an international patent by Cryo-Save.

### Adult Stem Cells

The primary roles of adult stem cells are to maintain and repair the tissue in which they are found. There are two main types: Hematopoietic Stem Cells (HSCs), forming all blood cells and Mesenchymal Stem Cells (MSCs), able to differentiate into multiple cell types such as bone, fat, muscle and cartilage.

Fat or adipose tissue is an ideal source of adult stem cells: - It is very rich in MSCs, for example a 500 times higher concentration than in bone marrow - It is readily available; the 50ml needed for Cryo-Lip can easily be obtained from a liposuction - It is autologous, adult tissue, and hence no ethical or immunological issues - It is normally discarded anyway

### Clinical Applications

The use of Adipose-derived Stem Cells (ASCs) promises much as testified by the exponential increase in both peer-reviewed medical publications and ongoing clinical trials.

Professor Marco Gasparotti, an eminent Plastic and Reconstructive Surgeon from Rome and the pioneer of the superficial lipos

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