



Candidate for liposuction?

preserve your **stem cells** now...

Save your Life tomorrow!

**COLLECTION AND PRESERVATION
OF STEM CELLS FROM ADIPOSE TISSUE**

Preserve your Health Now

You can still preserve stem cells for your future health. It is already known that adipose tissue is a rich source of stem cells useful in regenerative medicine applications.

In the future, people who have preserved their own stem cells will have an advantage in health issues.

Biohellenika, the largest Stem Cell Bank in Greece, provides to you exclusively the opportunity to preserve adipose derived stem cells.

Biohellenika has established the first adipose-derived stem cell isolation and cryopreservation laboratory in Europe. The cells can be either used immediately or cryopreserved for future applications.

Preserve your Own Stem Cells

Now is the time. Studies have shown that stem and regenerative cells lose some of their abilities by aging. As the potential need for regenerative medicine increases, it seems necessary to collect and preserve your cells as soon as possible. Your doctor may safely collect your cells either during an outpatient visit or during a scheduled procedure. Afterwards, Biohellenika will safely preserve them and deliver them immediately whenever you need them.

New clinical trials study the use of stem and regenerative cells from adipose tissue for many therapeutic applications, including cardiovascular diseases, plastic surgery, skeletal reconstruction and gastrointestinal track diseases.





Analytically, the preservation of adipose-derived stem cells now is important because:

- The cells can be used immediately and without surgical procedures when needed.
- The cells are young, vivid and disease-free, and may not be as healthy when they are needed.
- The cells should not be discarded after liposuction or a surgical procedure.

Adipose-Derived Stem Cells Applications

Adipose-derived stem cells **HAVE ALREADY BEEN USED SUCCESSFULLY** in patients for:

- Tissue repair in breast reconstruction after surgery
- Tissue reconstruction after necrosis due to radiation
- Calvarial repair after a serious injury
- Healing of fistulas: tracheaomediastinal, Crohn's disease and perianal.
- Treatment of complications after allogeneic bone marrow transplantation.
- Treatment of skin aging.

Experimental studies have shown that in the near future these cells will also be useful for the treatment of:

- Ischemic and hemorrhagic stroke.
- Tetraplegia and paraplegia due to spinal cord injury.
- Parkinson's disease.
- Pneumonic emphysema.
- Urinary incontinence.
- Acute renal tubular failure.
- Osteoarthritis.
- Liver cirrhosis.
- Diabetes.
- Acute and chronic ischemic myocardial disease.

These cells can also be used to regenerate:

- Intervertebral disks
- Muscles
- Tendons
- Bones
- Periodontium
- Cornea

Ways of collecting Adipose-Derived Stem Cells

- During a liposuction surgery for aesthetic reasons
- During a surgical procedure, where removal of adipose tissue is necessary (consult your doctor)
- During another surgical procedure after confirmation from your doctor
- From liposuction performed especially for this reason

5 Steps to the Future of your Health

- Attain the special collection and transportation kit from Biohellenika.
- Biohellenika will communicate with your doctor regarding the collection procedure.
- On the surgery day, Biohellenika's representative will collect your kit from the hospital.
- Biohellenika will inform you about the successful collection and processing.
- After the financial settlement for the provided service, you will receive the "Certificate for Stem Cell CryoPreservation".





Why Preservation is Important

Whoever has an active role in healthcare and welcomes the idea of regenerative medicine should inform and suggest the preservation of adipose-derived primitive and regenerative cells. Scientific studies have shown that these cells have the potential to play an important role in personalized regenerative medicine.

Consult your doctor and ask for more information regarding the next steps. We also invite you to visit our website www.biohellenika.gr for further information.

Biohellenika's Certifications

Biohellenika is certified according to ISO 9001:2008 by Lloyd's Register Quality Assurance for the process, quality test and cryopreservation of autologous cell population from adipose tissue.

The function of separation and cryopreservation laboratories is adjusted to the NATIONAL LEGISLATION demands, the European Instructions, the AABB regulations, JACIE and Netcord, and the ISO 9001, 13485, 14644, 15189 και 27001. The equipment used carries the CE badge, while all materials are approved for human therapeutic use (EOF). Biohellenika has received all permits demanded by Greek legislation, thus always functioning legally, the laboratories abide by all relevant international regulations and are under evaluation for the AABB (American Association of Blood Banks) certification .

Biohellenika has today 8 clean rooms, 5 in Thessaloniki and 3 in Athens, that are specially designed for the processing of the cord stem cells. The clean rooms are certified according to the GMP and ISO 14644-5 και VDI 2083 standards. The company follows all ISO 13485 safety regulations (medical equipment) and ISO 27001 (data safety).

The Advantages of **Biohellenika**

Biohellenika, one of the biggest Greek Stem Cells Bank in Europe, offers high quality, scientifically proven innovative services which derive from the long experience and research of distinguished scientists. Get to know Biohellenika, a company of high standards and strict operation criteria, where science is the foundation of human life.

Biohellenika is the only company today that uses the latest technologically advanced equipment that follows a Certified Procedure that guarantees safety during the whole procedure.

Within the frame of unique benefits, Biohellenika's innovative services are offered at special prices with favourable financial settlement terms.



Bibliography

1. **Adipose Tissue-Derived Stem Cells. Characterization and Potential for Cardiovascular Repair**
Madonna R, Geng YJ, De Caterina
Arterioscler Thromb Vasc Biol. 2009 Jul 23
2. **[Regenerative medicine for anti-aging]**
Ebisawa K, Kagami H, Kato R, Yamada Y, Ueda M.
Nippon Rinsho. 2009 Jul;67(7):1402-6
3. **Human adipose derived stem cells contribute to chondrogenesis in co-culture with human articular chondrocytes**
Hildner F, Concaro SE, Peterbauer A, Wolbank S, Danzer M, Lindahl A, Gatenholm P, Redl H, van Griensven M.
Tissue Eng Part A. 2009 Jul 8
4. **Early translation of adipose-derived cell therapy for cardiovascular disease**
Sanz-Ruiz R, Fernandez-Santos E, Domvnguez-Mupoa M, Parma R, Villa A, Fernandez L, Sanchez PL, Fernandez-Avilis F.
Cell Transplant. 2009;18(3):245-54
5. **Clinical study of the efficiency of combined cell transplant on the basis of multipotent mesenchymal stromal adipose tissue cells in patients with pronounced deficit of the maxillary and mandibular bone tissue**
Kulakov AA, Goldshtein DV, Grigoryan AS, Rzhaniyeva AA, Alekseeva IS, Arutyunyan IV, Volkov AV.
Bull Exp Biol Med. 2008 Oct;146(4):522-5
6. **A new bronchoscopic treatment of tracheomediastinal fistula using autologous adipose-derived stem cells.**
Alvarez PD, Garcva-Arranz M, Georgiev-Hristov T, Garcva-Olmo D.
Thorax 2008
7. **Adipose-Derived Stem Cells and Their Secretory Factors as a Promising Therapy for Skin Aging**
Park BS, Jang KA, Sung JH, Park JS, Kwon YH, Kim KJ, Kim WS
Dermatol. Surg. 2008
8. **Clinical treatment of radiotherapy tissue damage by lipoaspirate transplant: a healing process mediated by adipose-derived adult stem cells.**
Rigotti G, Marchi A, Galiè M, Baroni G, Benati D, Krampera M, Pasini A, Sbarbati A.
Plastic and Reconstructive Surgery 2007
9. **Treatment of resistant pure red cell aplasia after major ABO-incompatible bone marrow transplantation with human adipose tissue-derived mesenchymal stem cells**
Baijun Fang, Yongping Song, Robert Chunhua Zhao, Qin Han, Ying Cao
American Journal of Hematology 2007
10. **Human adipose tissue-derived mesenchymal stromal cells as salvage therapy for treatment of severe refractory acute graft-vs.-host disease in two children**
Fang B, Song Y, Lin Q, Zhang Y, Cao Y, Zhao RC, Ma Y
Pediatric Transplantation 2007
11. **Adipose-Derived Cells**
Emanuele Meliga, Brian M. Strem, H.J. Duckers and Patrick W. Serruys
Cell Transplantation Review 2007
12. **Multipotential differentiation of adipose tissue-derived stem cells**
Brian M Strem, Kevin C Hicok, Min Zhu, Isabella Wulur, Zeni Alfonso, Ronda E Schreiber, John K Fraser and Marc H Hedrick
The Keio Journal of Medicine 2005
13. **Human Adipose Tissue Is a Source of Multipotent Stem Cells**
Patricia A. Zuk, Min Zhu, Peter Ashjian, Daniel A. De Ugarte, Jerry I. Huang, Hiroshi Mizuno, Zeni C. Alfonso, John K. Fraser, Prosper Benhaim and Marc H. Hedrick
Molecular Biology of the Cell 2002

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