

Advantages of Autologous Tissue Suspension:

- Tissues remain viable and sterile because they are not exposed to external environment.
- No waiting time; preparation time is 40 minutes.
- It's usually applied together with skin-stimulating technologies for elastin-collagen triggering.
- %100 Otolog (chemicals-free)
- Only one session
- Enzyme-Free
- Mechanical System
- Closed System
- Applicable in outpatient clinic
- No Operating Room
- No Anesthesia Team

Indications



Some Results For Hair Loss













[1] 'Stem Cells in Skin R ound Healing, and Their Clinical Applic astar, M. Canic, O. Stojadinovic, Int. J. Mol. Sci. Doi: 10.3390/ijms161025476.

[2] 'Characteriz tem cell-en-inded human hair follicle bulge cells', M. Ohyama, A. Terunuma, C. L. Tock, M. F. Radonovich, C. A. Pise-Masison, S. B. Hopping, J. N. Brady, M. C. Udey, J. C. Vogel, The Journal of Clinical Inves olume 116, Number 1, January 2006.

[3] 'Balacteriz tem cell-en-inded human hair follicle stem cells, but lack or cells', L. A. Garza, C. Yang, T. Zhao M. Lee, H. He, D. C. Stanton, L. Carrasco, J. H. Spiegel, J. W. Tobias, G. Cotsarelis, The Journal of Clinical Inves olume 121, Number 2, February 2011.

[4] 'Bioengineering the Hair Follicle', K. Stenn, S. Parimoo, Y. Zheng, T. Barrows, M. Boucher & K. Washenik, Organogenesis, 3:1, 6-13, DOI: 10.4161/org.3.1.3237, 2007.

[5] 'Hair Follicle Stem Cells', R. M. Lavker, T. Sun, H. Oshima, Y. Barrandon, M. Akiyama, C. Ferraris, G. Chevalier, B. Favier, C. Jahado, D. Dhowilly, A. A. Pantekyev, A. M. Christano, The Society for Inves ology, 2003 Jun;8(1):28-38.

[6] 'Drug discovery for alopecia gone today, hair tomorrow', Z. Santos, P. A e of Health, PMC 2016 March 01.

Upynamics between Stem Cells, Niche, and progeny in the hair Follicle', Y. Hsu, H. A. Pasolli, E. Fuschs, H. Hughes, Cell. 2011 January 7; 144(1): 92-105. doi:10.1016/j.cell.2010.11.049
Hair Follicle Terminal Differen trated by Dis arly and Late Matrix Progenitors', A. L. Mesler, N. A. Veniaminova, M. V. Lull, S. Y. Wong, Mesler et al., 2017, Cell Reports 19, 809-821 April 25, 2017.

1) The Tcl 1 oncogene deSnes secondary hair germ cells differen atagen—t ects stem-cell marker CD34 expression , G. Ragone, A. Bresin, F. Piermarini, C. Lazzeri, M. C. Picchio, D. R ang, M.D. Cooper, C.M. Croce, M.G. Narducci, G. Russo, published online 26 January 2009.

11] To evaluate the effect of combining phot elet t of ost . B. Freitag, A. Barnard, Freitag JB, et al. BMJ Case Rep 2013. doi:10.1136/bcr-2012-007463. 12] 'Phot ed platelet . Freitag, A. Barnard, A. Rotstein, Freitag J, et al. BMJ Case Reports 2012. doi:10.1136/bcr-2012-006858.

13] 'Hyaluronan Binding by Cell Surface CD44', J. Lesley, V. C. Hascall, M. Tammi, R. Hyman, Sep. 2000, The Journal of Biological Chemistry. 14] 'Recons tem cell in the ear perichondrium', S. Kobayashi, T. Takebe, M. Inui, S. Iwai, H. Kan, Y. Zheng, J. Maegawa, H. Taniguchia, PNAS, August 30, 2011, vol. 108, no. 35.

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Mastocytes

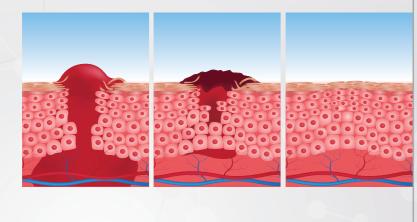
Various Types of Stem Cells

Lymphocytes (White Stem Cells)

derived stem cells are viable.

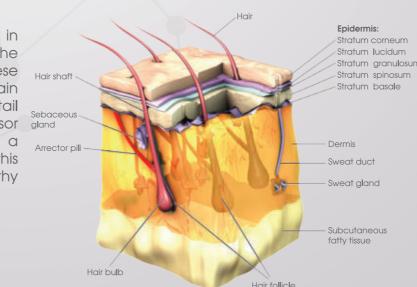


GCell Autologous Tissue Suspension is a new technique based on capillary vessel and tissue regeneration therapy in tissue regeneration. In this technique, 'a tissue suspension consisting of one's own autologous cells' is used to regenerate tissues.



GCELL Autologous Tissue Suspension Technology is a single-session treatment method performed using a specially prepared cell cocktail concentrated after several procedures conducted using specially - manufactured kits and device. This procedure is performed using the patient's own cells. It does not contain any chemicals.





GCell Technology For Hair Treatment

Autologous Tissue Suspension Method is a safe and effective new technique developed in recent years to combat androgenetic alopecia and other hair loss problems. It's performed in a single session.

GCell kits manufactured for this application, which is used not only for regeneration of hair but also regeneration of tissues in the body in general, are a device specially

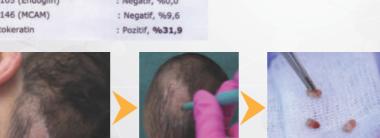
designed for application of the tissues taken from the patients themselves in the clinical environment for the regeneration

This technique has been developed as a result of numerous clinical studies based on the presence of a large number of follicle cells in the tissues and of stem cells and supportive cells supporting these cells.

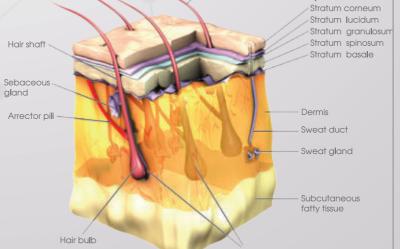


YÜZEY BELİRTECLERİ

(CD45' hücreler üzerinde analiz vanilmış ve değerlendirilmi CD34 (Kök hücre belirteci) CD45 (Pan Lökosit Belirteç) : Negatif, %10,4 CD73 (Endo_5_nükleotidaz) CD90 (Thy-1) Pozitif, %36.0 CD105 (Endoglin) Negatif, %0,0 CD146 (MCAM) : Negatif, %9,6



One of the areas rich in progenetor cells in our body is 'Neural Crest', i.e., tissue of the hape of the neck between our ears. These tissues have the ability to always remain young and preserve their vitality. A cocktail of epithelial and mesenchymal precursor gland stem cells can be obtained by injecting a Arrector pill cocktail of micro-grafts removed from this tissue by punch method into the unhealthy



GCell SVF Technology

Mesenchymal cells are regenerating, repairing and rejuvenating cells, which can differentiate into other specialized cells such as skin, connective tissue, muscle, bone tissue. They are the main types of cells that make up all tissues and organs and capable of regenerating themselves. These cells enable regeneration and repair of cells and tissues.

Characteristics of Mesenchymal Cells

- 1. They can find an optimal growth environment for themselves and settle in.
- 2. They can multiply and turn into the type of cells needed in that region.
- 3. They can differentiate into other types of cells and produce species that are continuance of those cells.
- 4. They can regenerate themselves or ensure continu ance of their own cell community.
- 5. They have the ability to repair the damaged tissue in any part of the body and make it functional.

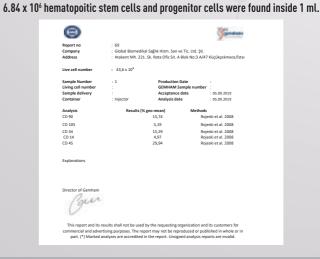
GCell Autologous Tissue Suspension Technology does not replicate Epithelial and Mesenchymal Cells but separate them. This separation process is performed autologously (mechanically). The mechanism contains 50 micron-diameter filters and blades. The required epithelial and mesenchymal cells are obtained during separation by these filters and blades. During the process, some proteins remain below 50 micron needles and do not go down to the bottom mixture. After the process, only required cellular components measuring 50 microns and below are made available.







2.83 x 106 mesenchymal-originating cells were found inside 1 ml.





Cellular componentsmeasuring 50 microns and below;

Mesenchymal stem cells are made available for injection after the procedure. Approximately 92% of

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