

Cellular acoustics and Meso-Forte technology,
as a breakthrough in anti-aging medicine

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In a series of our experiments (1996-1998), it was shown that some of the sound frequencies can activate, while other frequencies suppress the activity of cell cultures in vitro [12]. This is how a new scientific field called cell acoustics was born. This term was proposed in 1999 [1]. The main goal of cellular acoustics was determined in the direction of studying the patterns of musical-acoustic influences with the search for regulating frequencies for their use in medicine and biology.

After a series of successful experiments in 2003, cellular acoustic research has focused on working with blood in an acoustic field. in vitro, in particular, with leukocytes and stem cells.

This is how a special activating algorithm for musical-acoustic exposure, the use of which allowed only for one hour increase the number of total white blood cells in vitro on average 4.7 times. This exposure also increased the level of neutrophils by 4.7 times, lymphocytes by 3.9 times and immature granulocytes (ImGr) by 18.3 times ($P < 0.001$). Obviously, the leukocyte mass grows both due to the acoustic activation of mature blood cells and hematopoietic stem cells, causing their intensive proliferation.

We had every reason to believe that direct acoustic exposure to the skin could also increase cell activity, as it happened in various experimental models. in vitro, and activate the process of skin regeneration.

The data from previous research has been creatively reworked into an innovative anti-aging technology called Meso Forte Therapy (MTF), which was invented in 2009.

MTF is realized in the form of a combination of contact musical-acoustic effects on skin zones with synchronous listening to the same music-therapeutic program [3]. To increase the anti-aging effects in this technology, you can simultaneously use reparative cosmetics for the skin.

To implement the ITF, the anti-aging hardware and software complex "Bonnie-Grand" was developed. The software includes music therapy programs (38 pr.) With special acoustic parameters. Special technical devices such as amplifiers, headphones, and a magnetic mask provide more than 100 anti-aging technologies [4].

The duration of each ITF procedure is 20-25 minutes. Improvement of complexion and lips, reduction of wrinkles and visible skin improvements occur after the 1st session.

After a general course of at least 10 procedures, the results last from 6 months to one year.

There are several factors that give MTF such a quick and powerful anti-aging effect:

1) activation of skin microcirculation and regenerative capacity of stem cells and fibroblasts as a result of direct acoustic exposure in complex combination with cosmetic substances;

2) optimization of the level of hormones in the blood of the reactions of the central nervous systems as a result of the auditory reception of musical therapy programs that create a favorable psychosomatic background: improve mood, relax and relieve vascular spasms.

All information is convincingly confirmed clinically and protected by 5 patents.

Cellular acoustics and MPT are a breakthrough in restorative technologies that allow a fundamentally new look at the unique possibilities of using acoustic effects in the most important areas of medicine and biology.

Literature

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