

MicroCurrent: ATP HEALING

PENETRATING WAVELENGTH KILLS BACTERIA THAT CAUSES BREAKOUTS AND REDUCES INFLAMMATION. RESULTS WITHIN WEEKS



Although many factors are associated with the healing process, ATP (Adenosine Triphosphate), or the lack thereof, is at the top of the pyramid as defined when discovered by Karl Lohman in 1929 and supported by Fritz Lipman in 1941 citing ATP as the primary energy transfer molecule of the human body. This supports the fact that without power and an ample supply thereof, the system of the human body will not function effectively and eventually deteriorate. Having said this, preventative and improved health begins with creating environments that support and maximize the

synthesis of ATP. This includes the foods and supplements that we eat, the professional skin care technology that we use, and the topical products that we apply to our skin.

Since the body cannot survive without ATP, you would think that it would build up and store an ample supply so that the body could function at optimum levels, all the time. However, the body does not “store” ATP, rather it manufactures it on an “as needed” bases via ATP



Synthesis (ATP Synthase). To a certain degree, you can think of this a bit like our process of obtaining and storing food and liquids. Although we need food and liquids to survive, we are not packing around 100 pound bags of food and liquids in preparation for our long term needs, as our body can only utilize so much at a time. We do however, require an environment that supports and allows a ready supply.

Glycolysis

The second way that the body synthesizes ATP is via glycolysis. This is referred to as your anaerobic form of ATP synthesis, as no oxygen is required to realize this process. The glycolysis method of synthesizing ATP works by utilizing the energy stored in the glucose molecule in the muscles. Unlike the phosphocreatine method of synthesizing ATP, the glycolysis method takes a bit longer to kick into gear and therefore could be thought of as taking over where the phosphocreatine method of energy production leaves off. Glycolysis is the dominant form of energy used for strenuous activities that last more than ten seconds and less than two minutes.

ATP and the Mitochondria

The long term and most consistent form of energy or ATP synthesis is generated in the mitochondria of the cell and is sometimes referred to as the aerobic pathway, as it requires oxygen for the synthesis process to be complete. The more aerobic exercise that one performs has an impact and effect on how rapidly the body and especially the muscles can use oxygen, and therefore synthesize ATP. We often hear the comment that frequent exercise gives a person more energy; this is completely true! Individuals in excellent aerobic shape maintain the best environment for ATP synthesis, and as a result, generally look and feel fantastic, as well as maintain a near bullet proof immune system.

So now that we know a little bit about ATP and the current of life, how does this affect our skin, and what can we do to enhance our ATP production to assist our health, well being, and our appearance?

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Device Energy and ATP

From a technology standpoint, there are a few types of devices applicable to the skin therapist that can help enhance the synthesis of ATP. LED technology has been proven to enhance ATP synthesis as well as other cellular activity. As ATP is responsible to power all functions of life, it would be fair to assume that the increases in collagen, elastin, as well as many of the healing benefits that LED is best known for, are made possible due to the enhancement of ATP energy that facilitate these functions.

MicroCurrent and ATP

Our Bio-**Ultimate Platinum** microcurrent system, which uses less than 400 Ua (microamperes), has been proven to stimulate ATP production by as much as 500%. This stimulation in ATP synthesis is more significant than anything else known to date, making low levels of specific Suzuki Sequencing™ microcurrent the single most powerful tool to maximize ATP energy potential.

Studies indicate that our microcurrent applications, as with LED, have significant side benefits of ATP synthesis that include increases in collagen (more than 12% in 20days), elastin (more than 48% in 20 days), and blood circulation (more than 39% in 20 days). And the healing benefits of microcurrent are simply unmatched; ranging from soft tissue injuries, bone regeneration, to skin rejuvenation.

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