

Nano Silver Activates Stem Cells

Studies conducted over decades at the College of Physicians and Surgeons, Columbia University revealed that the minimum bactericidal concentration of silver required for biocidal activity against bacteria in pure water was 0.1ng/mL or 0.1 ppb.

A project begun in the early 1970's by Robert Becker, an orthopedic surgeon, involved a silver nylon product. This project was instigated in order to find an electromagnetic shield. Instead, it lead to the revolutionary discoveries by Becker of silver's unique properties to increase the rate of tissue regeneration in diseased or damaged tissues and his discovery that **silver ions could induce fibrocytes to dedifferentiate into stem cells and back again.** Becker also addressed the fact that children under 4 years of age could regenerate fingertips with silver. His extensive studies suggest that the regeneration effect initiated by silver appears to be similar to that seen in salamanders, which regenerate lost parts.

While at the Upstate Medical Center, University of Syracuse, Syracuse, New York, Becker developed a technique that released large quantities of silver ions from silver electrodes via small electric currents of approximately 0.9 volts. Electrically driven silver ions were found to consistently penetrate one centimeter within 20 minutes into local proteins at a wound site and were effective in treating osteomyelitis, similar infectious diseases, and the silver proved to be a stimulus for reconstruction of tissue in large wounds.

There is a lot of talk today about harvesting umbilical cord stem cells from the left overs of the birth process. It is easy to create them from nearly any cells of the body, using Becker's almost 40 year old technology. This information has been widely available in Becker's best selling book and is confirmed by some giants in the field of medical research. Yet... they continue to try to reinvent the wheel.

Its almost like medical science does not want this incredible knowledge known. It actually heals people instead of keeping them on drug maintenance while they slowly die. If they can find new ways to generate stem cells, more power to them. Now lets get this technology into the clinics and hospitals where it can relieve some pain and suffering.

The Miraculous Stem Cell **Produces -Fast - Scar Free Healing**

Medical studies indicate silver produces Stem Cells within your own body with your own DNA when needed!

Stem Cells

Stem cells are commonly making head lines these days and for good reason. They are commonly healing cancers, heart conditions, wounds that will not heal, stroke damage, etc. They are also very controversial because they are sometimes being taken from a “mother” intentionally getting pregnant in order to abort the baby as a source of stem cells of a DNA as close to that of the father, mother or existing child as possible. A primary objection has been that it provides financial incentives to doctors and hospitals to abort a fetus, especially late term abortions. Abortions are becoming more and more profitable. The parts of late term abortions are being sold for very high prices in many cases.

President Bush has refused to fund medical studies of stem cells for these reasons and has set strict guidelines for any medical studies in the field. Still the studies continue all over the world. One reason for this is that they have absolutely amazing healing qualities in many applications throughout the body, where sufficient healing is otherwise not possible.

Strictly speaking, a stem cell is a cell from an embryo or from an umbilical cord. However, in more recent times, the term is used very loosely to include undifferentiated cells and dedifferentiated cells. The difference between these three is confusing to the public. Most cells can only reproduce their own kind. Thus a skin cell can only produce a skin cell and then only of its own layer of skin. A heart cell can only reproduce a heart cell, a liver cell only a liver cell etc. However, a stem cell or undifferentiated cell or a dedifferentiated cell can become any cell that is needed when it is needed.

The difference in these cells is that the stem cell comes from a donor, usually an embryo or umbilical cord and has the DNA of the donor. An undifferentiated cell is usually of the patient and usually comes from the bone marrow, usually the femur. It has the DNA of the patient. It can be turned into any cell needed. Like a stem cell, it has never been differentiated. A dedifferentiated cell has been differentiated, and has been a skin cell, or a muscle cell, heart cell, liver cell or some other specific kind of cell. Like an undifferentiated cell, it has the DNA of the person it was produced in. It usually is dedifferentiated from cells near where it is needed, often from a scab over a wound etc. After being dedifferentiated, it is like a stem cell only it has the patients DNA. So, all are really very similar and often spoken of simply as “stem cells”. However, stem cells used in someone other than it was produced in have a foreign DNA.

Very recently scientists are reporting experimentally modifying the DNA to match the DNA of the patient. How close it may be possible to match these is still not known and

exactly what additional changes are made in the cells may never be completely known. Furthermore, the process will always be very expensive.

Some medical centers are collecting the stem cells from the patient and freezing them for future use, especially when it is believed they will be needed. This is a very expensive process and requires repeated hospitalization, sometimes for a period of time.

For simplicity, stem cells, dedifferentiated cells and undifferentiated cells will all be referred to here as “stem cells”.

All of our bodies produce undifferentiated stem cells in a very limited number for healing. It is when there are insufficient stem cells available that scarring and slow healing occurs, both internally and topically.

Usually, in order to use the stem cells from an embryo with a foreign DNA, the immune system must be suppressed to prevent rejection. Since the stem cells become cells of the patient's body with their foreign DNA and eventually replace themselves when worn out, it is probable that the problems of a foreign DNA in our body will stay with us for the rest of our life. In most conditions where stem cells are used, the immune system is already very low and it is when the immune system is most needed and desperately needs to be raised that the stem cells are also most needed. The object for a healthy body is always to build a healthy immune system, not to destroy it. Therefore the stem cell treatments from a donor are at odds to the long term health of the body.

Fortunately medical research indicates that in the presence of ionic colloidal silver, the body can produce all of the stem cells it needs. This is supported by the work of Dr. Robert Becker way back in 1970. In recent times amazing treatments of difficult body conditions have been reported from around the world using stem cells in very expensive treatments. Every little development in the creation or use of stem cells makes the headlines. That is, of course with the exception of silver. If the public ever becomes aware of the potentials of silver in the production of stem cells, the big drug companies will lose billions. Medical studies and user reports indicate the resulting healing of serious burns, wounds, surgery, cancer and many other things that are amazing when stem cells are produced by silver. Where heavy scarring would normally result, no scarring usually develops.

There is good reason to believe that before the land was farmed out, silver was much more abundant in the soil and in the food raised on the soil. Thus stem cells were then probably produced in sufficient quantities

After seven years of research in the regeneration of missing body parts; famous research scientist, Robert O. Becker made the following statement on page 175 of his book, "The Body Electric"; "Whatever its precise mode of action may be, the electrically generated silver ion can produce enough (stem) cells for human blastemas; it has restored my belief that full regeneration of limbs, and perhaps other body parts, can be accomplished in humans." This is not to insinuate ionic silver will do so, but rather that it will produce the needed stem cells to do so. Following is a very interesting example of an amazing healing as reported by Dr Robert O. Becker, in his best seller, "The Body Electric".

Dr. Robert O. Becker's Research

A patient was referred to him as a last resort with a broken right tibia and fibula, both of which refused to heal and continued to get worse after a year and a half of effort. The patient was given no choice but amputation. After a year and a half of treatment with every available antibiotic, he talked Dr. Becker into trying his new methods on his leg. Dr. Becker describes the wound as being "...a veritable zoo (of microbes)...no single antibiotic could fight all of John's germs. Even a mixture would probably create a greater problem than it solved, for any bacteria resistant to the mix would spread like wildfire when the others competing against them were removed." The unhealed bone was still receding. Dr. Becker had proven in earlier experiments with stainless steel, platinum and titanium electrodes that a very small negative current helped bone growth. However, he had recently found that positive silver electrodes killed off bacteria. He felt he had to make a choice between killing the infections and healing the bone and was afraid if he treated the infections first he would destroy even more of the little bone that was left.

Still, if he treated the bone first the infections would continue to spread and prevent the bone growth, probably consuming some more of the bone. He had to make a choice and decided the infection had to be taken care of first. He "...told John that six months after we got the wound to heal over with skin, I would bring him back into the hospital and use the negative current to stimulate whatever is left." A long slow and risky process.

"...I debrided the wound, removing the dead tissue and all grossly infected or dead bone. There wasn't much left afterward. It was an enormous excavation running almost from his knee to his ankle. In the operating room we soaked a big piece of silver nylon in saline solution and laid it over the wound...wrapped the leg, and connected the battery unit. By the end of the week...all of our bacterial cultures were sterile (1)(2)."[4] The battery attached to the silver nylon produced ionic silver, as Dr. Becker later explained. In a few days the ionic silver quickly killed off every kind of bacteria all the antibiotics had failed to kill in a year and a half!

Dr. Becker continues: "The soft healing tissue, called granulation tissue, was spreading out and covering the bone. In two weeks, the whole base of the wound, which had over eight square inches of raw bone, was covered by this friendly pink carpet. The skin was beginning to grow in too, so we could forget about the grafts we thought we'd need to do (1)(2)(7)(10)."[4] All of this indicates an abundance of dedifferentiated cells (stem cells) as Dr. Becker then explained.

"I decided to take an X-ray to see how much bone he'd lost." Dr. Becker was expecting the bone to be withdrawing due to the positive electrical current: "I could hardly believe the picture. There was clearly some bone regrowth! I removed the cast, felt the leg, and found that the pieces were all stuck together. John watched, and when I was done he lifted his leg into the air triumphantly. I'd never so much enjoyed being wrong (1)(7)." That is, he was expecting the bone to recede and the process to take about a year to accomplish what he largely accomplished in two weeks.

For complete paper on Stem Cell Dedifferentiation (2002) by Dr. Robert Becker:
<http://www.space-age.com/StemCellDedifferentiation.pdf>