

Stem Cell Science And Your Health

*The New Benefits That Stem Cell
Technology Brings to
Your Everyday Life*

A Free Report courtesy of Laurie Morse

Additional Info: www.LaurieMorse.StemTechBiz.com

What is a Stem Cell?

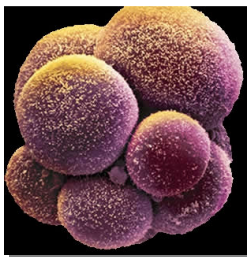
The National Institutes of Health defines a stem cell in this way:

“Stem cells have the remarkable potential to develop into many different cell types in the body. Serving as a sort of repair system for the body, they can theoretically divide without limit to replenish other cells as long as the person is still alive. When a stem cell divides, each new cell has the potential to either remain a stem cell or become another type of cell with a more specialized function, such as a muscle cell, a red blood cell, or a brain cell”.



The First Creation of Life

When the sperm fertilizes the egg the first creation is a stem cell. It then divides into



Early stem cells

more stem cells which continue to divide until they begin to differentiate (or change), becoming specific types of cells that will go on to form all of the different parts of the body. These are the embryonic stem cells that are the focus of the media's attention.

But after birth, and throughout life, stem cells continue to be made in the body. And as science has recently discovered, *these adult stem cells are the body's primary system of renewal and restoration.*

Adult Stem Cells

Adult stem cells are predominantly formed in the bone marrow. And, just as in the beginnings of life, adult stem cells can literally change into any type of cell in the body throughout life. These adult stem cells are released from the bone marrow into the circulation of the bloodstream to seek out problem areas, then renew and restore those areas.



Adult stem cell in bone marrow

Example: The Heart

When circulating stem cells find the heart in reduced health, they exit the bloodstream, attach to the heart and actually become brand new heart muscle cells, analogous to the original cells that created the infant's heart. They then begin dividing into still more new heart muscle cells. The same with the liver, the kidneys, the brain, the skin, eyes, any organ, tissue, muscle, bone, connective tissue, literally any part of the body that is in need of restoration.

What is StemEnhance™?

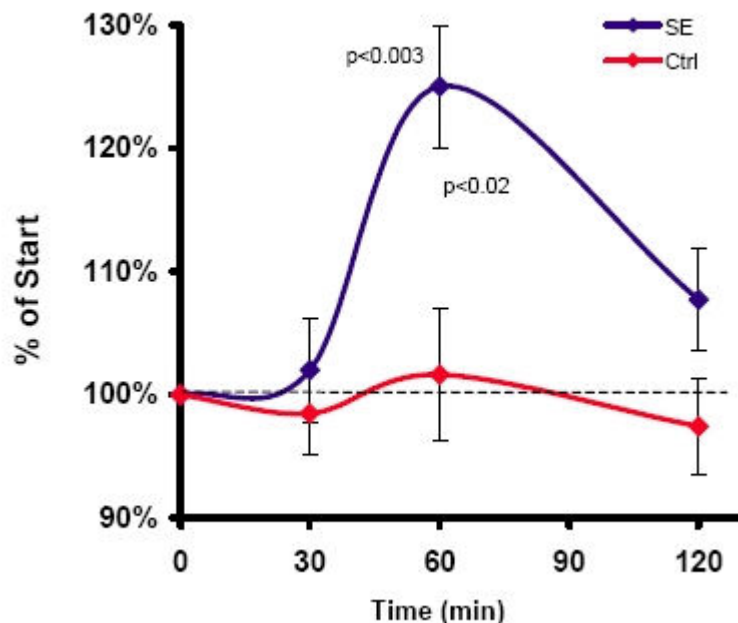
StemEnhance™ is a blend of two compounds extracted from an aqua botanical (water plant) called Aphanizomenon flos-aquae, or AFA. These compounds are extracted through a process that uses no chemicals or harsh agents. One extract supports the release of stem cells from the bone marrow. The other extract may support the migration of stem cells out of the blood into tissues.



What Does StemEnhance™ Do?

The effectiveness of StemEnhance™ was demonstrated in a triple-blind study. Volunteers rested for one hour before establishing baseline levels. After the first blood samples, volunteers were given StemEnhance™ or placebo. Thereafter, blood samples were taken at 30, 60 and 120 minutes after taking the consumables.

The number of circulating stem cells was measured by analyzing the blood samples using a scientific method called Fluorescence-Activated Cell Sorting (FACS). The chart shows the placebo group in red, the StemEnhance™ group in blue. **Consumption of**



StemEnhance™ triggered a significant 25-30% increase in the number of circulating stem cells.

This corresponds to approximately 3.5 million new circulating stem cells from just one dose!

Recommended dosage: 2 capsules, taken once or twice daily.
US Patent #6,814,961. A second patent is pending.

Why Do We Need StemEnhance™?

Why do kids seem to recover so quickly, when adults take much longer? A child gets



a cut and it's healed in three days. We get a cut and it takes a couple of weeks to get better. Well, for reasons scientists have yet to discover, as we get older these stem cells get 'clogged up' in the bone marrow and don't release as readily as they did when we were kids.

A child recovers so quickly primarily because their system of stem cell release into the bloodstream is functioning at optimal levels. The older we get, the fewer and fewer stem cells are released into the bloodstream and the more easily we succumb to health problems, injury and aging.

Additional Notes

- We need vitamins, antioxidants, good food, doctors and sometimes medication. But none of them rebuild the body. None of them can actually bring back new tissue, bone, organs, or any part of the body. Science has just recently discovered that the only system known that actually rebuilds the body is your own adult stem cells. If they are not releasing into the bloodstream as they should, you suffer degradation in health.
- Traditional health supplements nourish existing cells. They do not create new cells.
- Medicines alter or aid the body's response to health issues. But, they do not rebuild any part of the body.

Stem cells are the only known source for rebuilding the body and renewing health by restoring lost or degraded cells.

What Do Stem Cells Mean for My Health?

The **National Institute of Health** identifies 74 treatable diseases using adult stem cells in therapy. These costly and complex therapies typically deliver a massive quantity of adult stem cells to the area undergoing treatment. Most require that stem cells be harvested from the patient or an adult donor, programmed in a lab to become a specific type of cell, and then injected into the body. For treatment of disease these therapies are the best method of recovery, producing truly remarkable results. But, most of us don't have health issues that require these extensive procedures.

For those of us just wanting to maintain optimal health or address the effects of aging, injury, or day to day wear and tear, ***a smaller but steady release of our existing stem cells into the bloodstream can produce considerable health benefits.*** When StemEnhance™ is used as a daily supplement over time, the stimulation of billions of additional stem cells in the bloodstream could be one of the safest and most efficient methods for maintaining optimal health that science has yet discovered.



Adult stem cells in the bloodstream

The following is a collection from research articles, science papers and medical publications that factually illustrate the functions of the body's adult stem cell system. Many of these are described in greater detail on the website of The President's Council on Bioethics at this web address:
http://www.bioethics.gov/background/prentice_paper.html

Scientific and Medical Research Facts on Adult Stem Cell Function

- **Stem cells can form cartilage and bone**
-*Science (The world's leading journal of original scientific research)* 284, 143-147; 2 Apr 1999
- **Stem cell patients showed significant improvements in nerve conduction velocities, and showed maintenance or slight improvement in bone mineral density**
-*Bone Marrow Transplant* 215-222; Aug 2002, published by the NIH
- **Bone marrow-derived stem cells appear able to form neuronal tissues**
-*Science* 290, 1775-1779; 1 Dec 2000
- **Bone marrow stem cells can form liver, skin, and digestive tract cells**
-*New England Journal of Medicine* 346, 738-746; 7 March 2002
- **Bone marrow stem cells can also participate in cutaneous healing, contributing to repair of wound healing**
-*Journal Of Cellular Physiology* 196, 245–250; 2003
- **Stem cells participate in the generation of new neurons within the human brain**
-*Proceedings of the National Academy of Sciences USA* 100, 1364-1369; 4 Feb 2003
- **Bone marrow stem cells have also been shown to contribute to Purkinje cells** (Purkinje cells are brain cells that science had believed are not generated after birth)
-*Proceedings of the National Academy of Sciences USA* 100, 2088-2093; 18 Feb 2003
- **Mobilized stem cells have also been used in renewal of cardiac tissue** (Mobilized stem cells are those that have released into the bloodstream)
-*Journal of Clinical Investigation* 107, 1395-1402; June 2001
- **Bone marrow stem cells have also shown the ability to participate in renewal of retinal tissues**
-*Nature Medicine* 8, 1004-1010; Sept 2002

Scientific and Medical Research Facts on Adult Stem Cell Function

- **Human marrow stem cells have been shown to form cartilage cells**
-Proceedings of the National Academy of Sciences USA 99, 4397-4402; 2 Apr 2002
- **Bone marrow derived stem cells have also been shown capable of renewing muscle tissue**
-Science 279, 1528-1530; Mar 6, 1998
- **Bone marrow stem cells can participate in restoring kidney tissue**
-Journal of the American Society of Nephrology 14, S48-S54; 2003
- **Repopulation of liver cells from bone marrow stem cells could take place in humans**
-Nature 406, 257; 20 July 2000
- **Bone marrow derived stem cells have also demonstrated the ability to induce renewal of the pancreas**
-Bone Marrow Transplant 215-222; Aug 2002
- **Bone marrow derived stem cells can renew cardiac tissue and improve cardiac performance in humans**
-Nature Medicine 7, 430-436; April 2001 and many more
- **Studies indicate evidence that bone marrow stem cells can renew lung tissue**
-Development 128, 5181-5188; December 2001
- **Stem cells can home to lung tissue, then participate in renewal of lung tissue and reduction of inflammation**
-Proceedings of the National Academy of Sciences USA 100: 8407-8411; 8 July 2003
- **Bone marrow derived stem cells have been shown to contribute to renewal of gastrointestinal tissue in human patients**
-Archives of Dermatology 137, 1071-1072; Aug 2001 and many more

PubMed.gov - from the National Library of Medicine and the National Institutes of Health

The documentations of adult stem cell function by mainstream science and medical research are virtually endless. The previous are just a fraction. To find more, just visit the science and medical community's online source for retrieving such papers and



A service of the National Library of Medicine and the National Institutes of Health

articles, www.PubMed.gov. Type *stem cell* in the search box and have access to more than 150,000 studies. *Adult stem cell* will yield 30,000+ papers.

To search for a specific condition simply search for:

Adult Stem Cell + Your Specific Condition

Be sure to use the plus sign (+) with a space before and after to maximize your search.

Adult Stem Cells- The Best Anti-Aging System Ever Known



Knowing what adult stem cells do in the human body, doesn't it make sense that having more of them in the bloodstream will undoubtedly have profound effects on your health and well-being?

StemEnhance is proven to increase the number of circulating stem cells by up to 30%, and has a patent to back it up. Now, that is powerful.

