Why is Stem Cell 100™ the Best Anti-Aging Supplement Available?

- Adult stem cell function declines with age. *Rejuvenating your stem cells is the key to cell renewal, recovery from disease and injury, and longevity.* Stem Cell 100™ is an innovative first-in-its-class stem cell activator.

- Stem Cell 100™ was designed as a synergistic herbal supplement for stimulating your stem cells at the molecular level. Stem Cell 100™ has special pharmaceutical grade components and is backed by as a successful clinical field trial and multiple genetic studies on both animals and humans.

- As part of its multi-pathway activity, Stem Cell 100™ also detoxifies the body and lowers inflammation that promotes disease and inhibits stem cell function. Most supplements can only act on one nonessential pathway and are often based on marketing hype.

Stem Cell 100™ – “The precision of science and the balance of nature”™

All the organs and differing tissues of the body appear to have adult stem cells available for regenerating cells in case of injury or disease. It was recently discovered that even brain neurons and heart muscle cells (previously thought to be non-dividing and irreplaceable in adults) have their own reservoirs of adult stem cells for regeneration. Unfortunately, as we age most adult stem cell populations either decline in number and/or lose the ability to differentiate into functional tissue-specific cells. For example, cardiac muscle stem cells exist but old folks have only one half the number of cardiac stem cells found in young people. Thus, adult stem cells become more and more dysfunction with age, which progressively increases organ and tissue dysfunction with age.

There are many examples revealing the role of adult stem cells in aging. First, the outer surface of your skin continuously sloughs off dead cells, so that adult stem cells must continuously replenish the dying skin cells to maintain the skin as an effective protective barrier to the outside world. With age, there are progressively fewer functional skin stem cells, so cell turnover in the skin slows, leading to thinner, dryer skin that loses its elasticity and youthful beauty. Second, hair also thins and goes grey, as functional follicle stem cell decline and the adult stem cells generating hair color also decline. Third, the differing adult stem cells that maintain the tissues composing skeletal muscle, pancreas, heart, bone, liver, kidney, and the immune system lose functional capacity, raising the potential for decline in tissue function or outright failure with age. As a final example, the five senses of sight, hearing, smell, taste, and touch slowly wane with age, as the declining stem cell populations responsible for maintaining these functions are unable to fully replenish the sensory neurons after injury and random cell death.

Help Rejuvenate Your Body by Boosting Your Own Stem Cells

As a child, we are protected from the ravages of aging and can rapidly recover from injury or illness because of the ability of the young regenerative stem cells of children have a superior ability to repair...
and regenerate most damaged tissues. As we age, our stem cell populations become depleted and/or slowly lose their capacity to repair. Moreover, the micro-environment (i.e. niches) around stem cells becomes less nurturing with age, so cell turnover and repair are further reduced. This natural progression occurs so slowly that we are barely aware of it, but we start to notice the body changes in our 20s, 30s, 40s, and especially after 50 years of age. Stem Cell 100™ helps adults regain their youthful regenerative potential by stabilizing stem cell function.

**Stem Cell 100™ works differently than other stem cell products on the market**

You may have seen a number of products that are advertised as stimulating or enhancing the number of stem cells. Each person only has a limited number of stem cells so using them up faster may not be a good strategy. Stem Cell 100™ is about improving the effectiveness and longevity of your stem cells as well as preserving the stem cell micro-environment. The micro-environment declines with age due to declines in capillary density and to increases in basal inflammation, fibrosis, toxic waste products, and fat cells. An effective stem cell therapy must address the declines in micro-environment, as stem cells will not respond well in a harmful or toxic micro-environment. That is exactly what Stem Cell 100™ is designed to do and what other stem cell products cannot do.

**Stem Cell 100™ Extends Drosophila (Fruit Fly) Lifespan**

In extensive laboratory testing Stem Cell 100™ greatly extended both the average and maximum lifespan of Drosophila fruit flies. The study (see Charts below) included three cages of Drosophila fruit flies that were treated with Stem Cell 100™ (Cages T1 to T3) and three cages which were untreated controls (Cages C1 to C3). Each cage started with 500 fruit flies including 250 males and 250 females. The experiment showed that median lifespan more than doubled with a 123% increase. While fruit flies are not people they are more like us than you might think. Drosophila have a heart and circulatory system, and often die of heart failure. Like humans and other mammals (e.g. mice), it is difficult to increase their lifespan significantly. These observed results outperform every lifespan enhancing treatment ever tested – including experiments using genetic modification and dietary restriction.

The longest living Drosophila receiving Stem Cell 100™ lived 89 days compared to the longest living untreated control which lived 48 days. It is possible that the single longest living fruit fly lived longer for other reasons such as genetic mutation, however, there were many others that lived almost as long so it was not just an aberration. The oldest 5% of the treated fruit flies lived 77% longer than the oldest 5% of the control group. It is also important that other studies (not shown) indicated that Stem Cell 100™ treated Drosophila have an improved ability to survive stress and illness at all ages and not just during old age.
Frequently Asked Questions About Stem Cell 100™

1. What is the preferred dose of Stem Cell 100™ and when should it be taken?
If you are 125 pounds or less or in your 20s, then it may be best to only take one capsule of Stem Cell 100 per day preferably after lunch. For those over 125 pounds and over 30 years of age, we recommend two capsules per day preferably taken at breakfast and dinner. Note that the recommendation to take Stem Cell 100 at meals is not due to any problems with taking the supplement on an empty stomach. Rather, the pterostilbene in Stem Cell 100 acts as an insulin sensitizer to help glucose cross into your cells and thus reduces the spike in glucose and insulin that routinely occurs after a meal. It is also best to take the two capsules at different meals, as the 105 minute half-life of pterostilbene in the blood stream means that less of the insulin sensitizer is around after 4 hours and even less after 8 hours. That said, if you are one of the many people who can only remember to take your pills once per day, then it is best to take two capsules at the same time, preferably at one of your meals.

2. What improvements might I experience taking Stem Cell 100™?
Some of the benefits of Stem Cell 100 such as a slowing of the aging process may not be immediately apparent. While the number of people that have taken Stem Cell 100 for years is small, we have received many reported longer term beneficial effects including:
- Lowering of LDL cholesterol and significant increases in the good HDL cholesterol
• Lowering of blood pressure for those in the normal range
• Reduction of fasting blood sugar for those in the normal range
• Loss of belly fat that was resistant to other efforts
• Younger looking, smoother and more elastic skin
• Better memory and coordination
• General mood elevation
• Sinus clearing and better breathing
• Improvement in gum health
• Improvement in vision
• More endurance during vigorous workouts
• Gray hairs returning to their youthful color
• Reduction in leg edema

Skin elasticity can be tested easily at home without equipment using the pinch test. One 60+ male on Stem Cell 100 claims that he went from 7-8 sec on the pinch test to 2-3 sec in less than two years.

We do not make any medical claims for Stem Cell 100, however, you might find it interesting to do before and after blood tests with your doctor and monitor LDL and HDL cholesterol, fasting glucose, fasting insulin and C-Reactive Protein (CRP) which is an indicator of chronic inflammation. Another test you may want to periodically check yourself is blood pressure. Note that Stem Cell 100 is not meant as a treatment or preventive for hypertension, cholesterol problems, diabetes, or inflammation. But Stem Cell 100 can help with keeping these blood parameters at more healthful levels for those already in the normal range.

3. How does Stem Cell 100™ compare to the widely available antiaging supplement resveratrol?

Much research has been done on resveratrol and it has been in the news during the past few years. While the original experiment treating mice with resveratrol did generate somewhat longer lived mice, later experiments have given mixed results in extending mouse lifespan, as is also the case with longevity experiments in worms and fruit flies. One likely reason for these variable results is that resveratrol is a very unstable compound with only a 14 minute half-life in the blood stream. In contrast, pterostilbene, a close resveratrol analog, has a half-life of 105 minutes (7.5 fold higher) and is one of the principle components found in Stem Cell 100. This means that by the time you have lost 50% of pterostilbene, you have lost more than 99% of resveratrol! Moreover, the key to a substance’s activity in cells is its bioavailability. Pterostilbene is 95% bioavailable, whereas resveratrol is only 20% bioavailable. While the pterostilbene is the most prevalent resveratrol analog in Stem Cell 100, there is another potent resveratrol analog in Stem Cell 100 called marsupsin, which acts synergistically with pterostilbene.

4. In picking the herbal extracts for Stem Cell 100™, were ingredients chosen that affect the same genes that differed in the Methuselah flies?
The method used to pick the ingredients chosen for Stem Cell 100 is described in Fine-Turn Your Longevity Genes. The gene expression changes in Methuselah flies did give us many targets for intervention into the aging process. The surprise was that there were so many genes that changed in Methuselah flies. This naturally led to the idea that many targets would have to be hit simultaneously if one were to succeed in inducing a major change in the rate of aging. That was the genesis of the wide spectrum Stem Cell 100, which may finally have the potential to target a critical threshold of the genes involved in aging. While the selection of ingredients for Stem Cell 100 had many constraints beyond targeting Methuselah genes, the final product was found to alter many of the highest scoring Methuselah genes using our proprietary AI software. This fact plus our fly longevity data gave us high confidence that we were on the right track. Our subsequent human Field Trial showed many positive results which are all independent measures of long healthspan and lifespan.

5. What are the potential interactions between Stem Cell 100™ and medications?
If you are taking any of the following drugs, then you should consult your physician before taking Stem Cell 100. It may be necessary to monitor and adjust some of the medications as needed.
- Cholesterol lowering drugs
- Blood thinners (Plavix, Coumadin, etc.)
- Blood pressure lowering drugs (Beta Blockers, ACE inhibitors, ARB drugs, and/or diuretics)
- Anti-depressants

6. How safe is Stem Cell 100™ and what are the side effects?
All of the individual herbal extracts in Stem Cell 100 have 40 years or longer history of human use without significant reported side effects. Moreover, both animal and human trials have been published on the safety and effectiveness of the individual herbal extracts. If you believe you have experienced any side effects while using Stem Cell 100 please report them to us using our Contact Form.

Beneficial Effects of Stem Cell 100™ based on the literature of its components:

1. Adult stem cell rejuvenation [1-4, 48-49]
2. Promotes stem cell self-renewal [55]
3. A healthy cardiovascular system [5-8]
4. Healthy blood glucose levels for those already in the normal range [9-13]
5. Healthy blood pressure levels for those already in the normal range [14-15]
6. Healthy cholesterol levels for those already in the normal range [9, 16-17]
7. Younger looking skin [18-24]
8. Better learning and focus [25-30]
9. More endurance with vigorous exercise [31-35]
10. A healthy immune system [31-32, 36-39]
11. Healthy breasts, colon, pancreas, and prostate [40-46]
12. Increases tissue-type plasminogen activator (t-PA) synthesis [49]
13. Down-regulates the expression of plasminogen activator inhibitor type 1 [49]
14. Increases M-cholinergic receptor density in senile rats [50]
15. Promotes cyto-protective autophagy [51]
16. Has neuro-protective effects with selective binding to glutamate receptors [52-54]

References


