

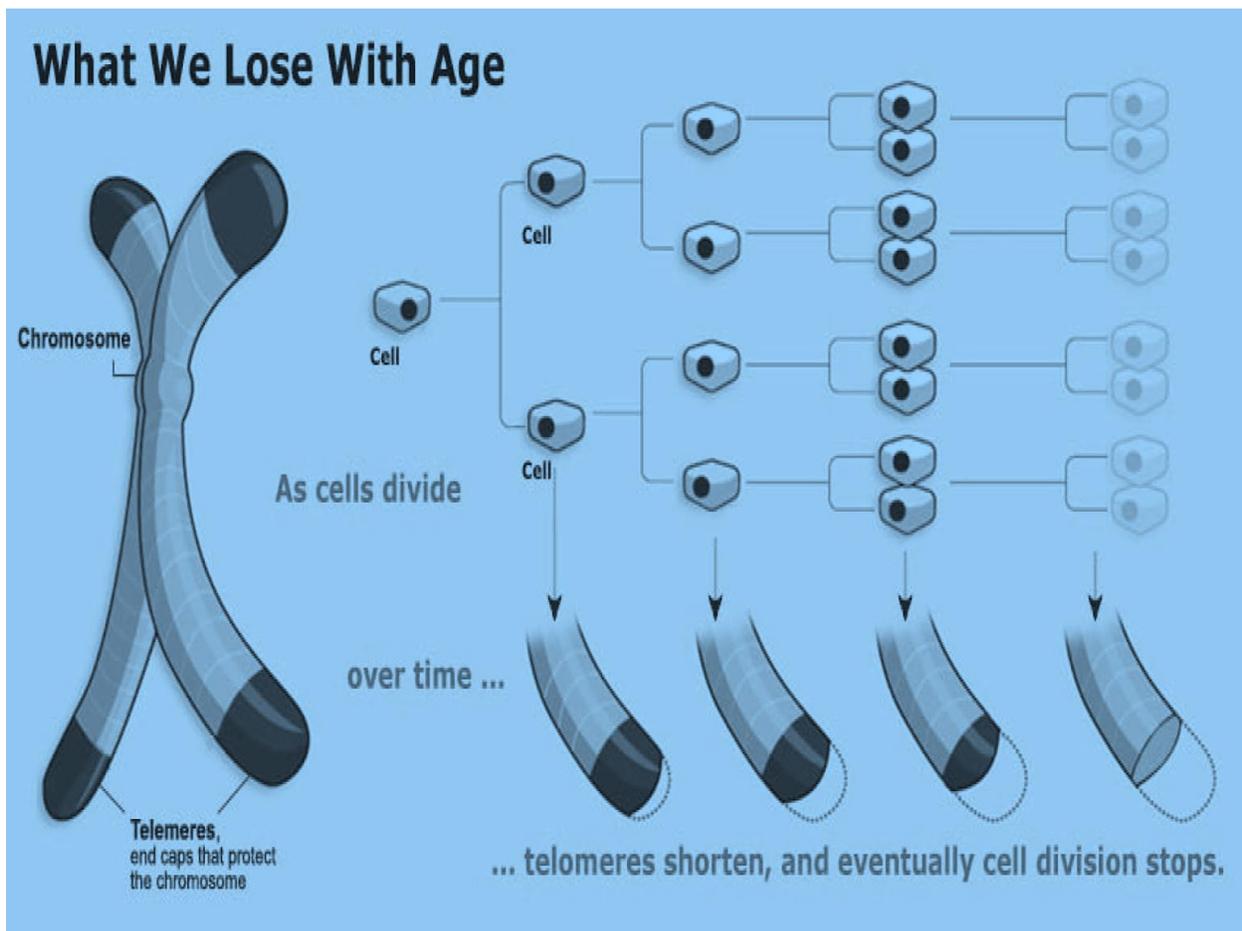
## EMBRYONIC PLANT EXTRACTS EXTEND THE HAYFLICK LIMIT/PHENOMENON

By

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The Hayflick limit is the number of times a normal human cell population will divide until the cell division (mitosis) stops. Skin cell's reproduction will divide about 60 times and then dies. Empirical evidence shows that the telomeres are associated with each cell's DNA and will get slightly shorter with each new cell division until they shorten to a critical length. **Whereas, cancer cells are immortal and out of control.** Genes build up into a mushy glue, and cellular errors and mistakes increase.

Premature aging syndromes, including Werner syndrome, Ataxia telangiectasia, Ataxia-telangiectasia like disorder, Bloom syndrome, Fanconi anemia and Nijmegen breakage syndrome are associated with short telomeres as well. However, the genes that have mutated in these diseases all have roles in the repair of DNA damage, and the increased DNA damage may, itself, be a factor in the premature aging.



Embryonic plant extracts (EPE) versus any one single isolated chemical compound are Nature's answer. These **expert's complex chemicals composition** can address all the necessary mechanisms by which you **accelerate cellular** and **tissue repair renewal** to prevent or at the very least **slow down senescence** (aging process) and increase life

span and quality of life. EPE **will selectively increase telomeres** and thus repair our DNA while not causing cancer like that of some single isolated compounds for increasing telomeres. Some EPE **are expert's inhibitors of mistranslating defective genes**. Other EPE are selective apoptosis (program death cells) inducers for malignant cancer cells to commit suicide as they should do. Embryonic plant extracts also contain embryonic plant stem cells (PSC®) and embryonic plant hormones, which all play a role in slowing down the senescence process. Furthermore, EPE contains more **Omega-3 antiinflammatory fatty acids** than do adult's plants, which like adult human beings have more **pro-inflammatory Omega-6**. More importantly anti-aging is not only about targeting one thing like that of cell renewal or telomerase lengthening but the body homeostasis (equilibrium). EPE addresses the many chemical imbalances found in humans, whereas single narrow-minded isolated approaches do not and are often the result of homeostatic (imbalance) in the first place.

What are the unique properties of all embryonic stem cells?

Stem cells differ from other kinds of cells in the body. All stem cells regardless of their source have three general properties:

1. Capable of dividing and renewing themselves for long periods
2. Initially unspecialized
3. Give rise to specialized cell types.

**Stem cells can give rise to specialized cells.** When unspecialized stem cells give rise to specialized cells, the process is called differentiation. While differentiating, the cell usually goes through several stages, becoming more specialized at each step of the way. We are just beginning to understand the signals inside and outside cells that trigger each step of the differentiation process. The internal signals are controlled by a cell's genes, which are interspersed across long strands of DNA and carry coded instructions for all cellular structures and functions. The external signals for cell differentiation include chemicals secreted by other cells, physical contact by neighboring cells, and other molecules in the microenvironment. The interaction of signaling during the process of differentiation causes the cell's DNA to acquire epigenetic marks that restrict DNA expression in the cell and can be passed on through cell mitosis. Many questions regarding stem cell differentiation still remain unanswered.

**How do I know why embryonic plant extracts extend the hayflick limit?** A simple answer is that in the last forty years, anyone taking these embryonic plant extracts looks at least 10 years younger than their age, and this is observed across every person taking these extracts. Taking before and after pictures has demonstrated this physiologically.

Increasing cellular and tissue repair will remain elusive to the single minded isolated chemist or even practitioner, this is due to the simple facts that none of this is possible until you have effectively detoxified the body burden (toxins). You can never paint a house on top of debris. Nor can you hope for a roof to hold up unless you have a **sound foundation**, like that of common sense.

Each EPE has its own unique chemical composition and pharmacological – biological activities. Medicinal plants are a very rich source of novel therapeutic agents, which remains to be explored, discovered, and evaluated phytochemically or biologically

speaking. The qualitative and quantitative analysis of any plant extracts, significantly depend on the species, plant organ tissue and most importantly the time of harvest for which it is known to contain the highest concentration of biologically active compounds. To date, plants are the most important, least understood and ***most taken for granted of all living matters.***

Unless you have studied any one given plant, in its *entire chemical composition* do not assume you know what this plant can or cannot do base on a fractionated study in addition to the study of their *interactions*. The need for a physician to include environmental medicine as part of today clinical practice and conduct toxicological testing on their patients to see if the body burden is real or not. Until then refrain from telling me that detoxification is not a necessary part of any physician's clinical practice in today's increasingly polluted world. The need to evaluate the body burden caused by endogenous sources, including the increase use of synthetic drugs needs to be evaluated beyond that of just a liver panel only, please. Beware that most physicians know very little about drug interactions from other specialties, yet they so freely dispense despite their far-reaching long-term side effects and consequences. Furthermore, physicians are insufficiently trained in nutritional sciences, which is criminal in my view and results in lack of care.

Sincerely,

Dominique