



Bluecosig Formula is designed for blood signaling and transcription adjustment where aging reversal or rejuvenation via blood signaling to all cells, can be realized. It contains phytotherapeutic extracts of: *Caulophyllum thalictroides*, *Panax quinquefolius*, *Scutellaria baicalensis*, and *Curcuma longa*. This formula is based on a synergistic herbal analog to the allopathic drugs underlying research that effected two key determinants as the causal factors for aging: TGF-beta which activates ALK5/pSmad 2,3 and goes up with age, and oxytocin (OT) which activates MAPK and diminishes with age.

Advances in the regulation of young and old tissue stem cells suggests an acceleration of the development of therapies to address age-related tissue degenerative pathologies. Strategies which may utilize herbal analogs of synthetic molecular structures indicate that rejuvenation of multiple old organs represent progress toward attenuating or even reversing human tissue aging.

It is hypothesized that a few morphogenic pathways account for most of the phenotypes of aging. In heterochronic parabiosis, a young and old animal are surgically connected to share a common blood circulation. Experiments in mice showed this shared circulatory milieu restored tissue health and regeneration of the old partner; and at the same time, the young partner experienced a regenerative decline in a number of tissues [1-5]. From the viewpoint of tissue maintenance and regeneration, it is postulated that these arise from changes in tissue growth and homeostasis and specifically in key signaling networks regulating stem cells and their differentiated niches. In support of this idea, pathway modifier-based approaches for the enhancement of aged tissue repair and maintenance have been reported, for example, by systemic delivery of OT which induces MAPK/pERK signaling, by forced activation of Notch-1, by antagonism of TGF-beta/pSmad signaling [14], or by antagonism of the Jak/Stat pathway.

Caulophyllum thalictroides, Blue Cohosh is a known oxytocin synergist with a long history of use in traditional herbal medicine.

Panax quinquefolius, ginseng extract demonstrated the inhibition of the expression of TGFβ1, Smad2,3.

Scutellaria baicalensis, decreases expression of TGF-β isoforms, TGF-β receptors, and SMADs. The herb effectively inhibited basal and TGF-β1-induced cancer cell proliferation.

Curcuma longa, increased the ability of human epidermal keratinocytes to differentiate during replicative senescence. It has anti-inflammatory and antioxidant properties and can mitigate symptoms of ageing.

Bluecosig is uniquely extracted from organic herbs using organic cane alcohol and deep ocean mineral water, as the extraction solvent. Utilizing advanced all-glass apparatus **Bluecosig** undergoes hours of reflux extraction that applies heat and ethanol to enhance the bioavailability of the resultant extraction.

- **Highly bio-available due to heat and alcohol reflux extraction**
- Made from the extraction of **organic sourced herbs**.
- **Organic**, Non-GMO, Gluten free
- Extracted with **Maui-grown organic sugarcane alcohol** and deep ocean mineral water.