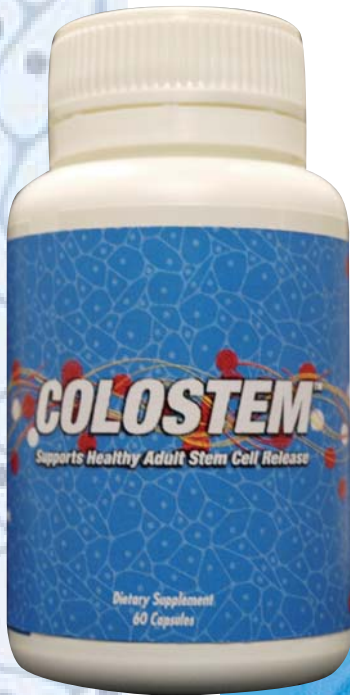


Colostem

supporting healthy adult stemcell release

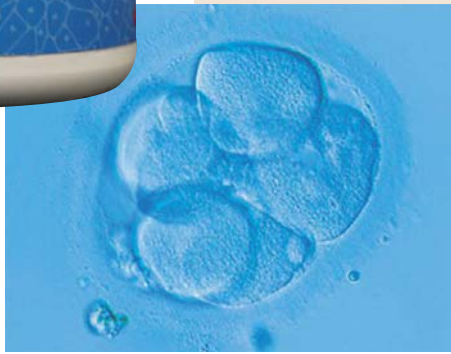


New Image have developed their First Generation stem cell product by combining 3 key ingredients that support a healthy stem cell population:

Colostrum 400mg

Fucoidan 40mg

Resveratrol 25mg



What are stem cells?

Stem cells are “original” cells, the cells that all other cells stem from.

Stem cells are un-specialised cells – they can turn into many different cell types in the body (heart, brain etc)

They can potentially divide without limit to replenish other cells – they are anti-ageing

ADULT STEM CELLS

Adult stem cells are made in the bone marrow and get released to circulate in the blood of adults when required for tissue repair.

Adult stem cells are NOT embryonic stem cells which come from the fertilised egg and developing embryo.

Adult stem cells are the body’s source of regenerating new tissue cells to re-build old, worn out and damaged tissues.

Stem cell levels decline with age – link to ageing

Stem cell therapies are the hottest medical research area in anti-ageing and regenerative medicine



Colostem

a health benefit you can't afford to miss !



Breast milk contains stem cells?

Published in Science Network, Australia (11 February 2008) (*Dr Mark Cregan, University of Western Australia*)

Perth scientists discovered that breast milk contains stem cells.

Link this to the fact that colostrum contains factors that activate stem cells, and the knowledge of cell based immunity and.... What a powerful proposition colostrum could be for supporting a healthy adult stem cell population

Other natural products contained in Colostem

FUCOIDAN

Brown seaweed (Angel's Hair) extract-sulphated polysaccharide, discovered by Dr Kyosuke Owa who noted similarities to fucoidan polysaccharide and human breast milk and called it "the plant equivalent of mothers milk"

Fucoidan is a multi-functional nutrient from the sea. Sea water is the closest material to human body fluid and it is probable that the origin of mammals is from the sea.

The benefits of fucoidan are:

It defends against degenerative diseases, it is an anti-oxidant against premature ageing, it has an anti-coagulant effect, it inhibits abnormal cell growth, normalises blood pressure, blood sugar, and cholesterol, improves stomach upsets and improves immune ability

FUCOIDAN AND STEM CELLS

Cells have a sticky patches called ligands that help cell to cell recognition. Leukocytes have a ligand call L-selectin. L-selectin acts as a "homing receptor" for leukocytes – it slows leukocyte trafficking through the blood. The receptor is commonly found on the cell surfaces of T-cells. Fucoidan sticks to L-selectin. Significant increase in stem cells (CD34) with homing receptor

RESVERATROL

The fastest growing nutritional ingredient in the world Resveratrol is produced naturally by several plants when under attack by pathogens such as bacteria or fungi. Resveratrol is found in red grape skins and in Japanese knotweed. It is a longevity ingredient – thought to be a factor in the French Paradox

In mouse and rat experiments, anti-cancer, anti-inflammatory, blood-sugar-lowering and beneficial cardiovascular effects have been reported. Experiments have shown that resveratrol treatment extended the life of fruit flies, nematode worms and short living fish. Endurance of mice was substantially increased by resveratrol

The benefits of resveratrol are:

Resveratrol mimics effects of calorie restriction. Calorie restriction is the only intervention proven to prolong maximum life span and produce anti-ageing effects in a variety of organisms. French researchers suggested that resveratrol might help control weight gain by enhancing energy expenditure, and help prevent degenerative diseases such as Alzheimer's and Parkinson's which are age related.. Resveratrol supports blood vessel health decreases oxidation of LDL, platelet aggregation and relaxes arterioles. Resveratrol may help fight cancer – trials in-vitro and in rats show promising reductions in incidence of certain cancers.

RESVERATROL AND STEM CELLS

Resveratrol Inhibits Myeloma cell growth *Patrice Boissy et al, Cancer research, 2005, 65, 9943-9952*

Resveratrol protects bone marrow stem cell derived chondrocytes from inhibitory effects of interleukin-1 *Ming Lei et al; Acta Pharmacologica Sinica (2008), 29, 1350-1356*

Enrichment of Stem Cells using Resveratrol - *Erdman, Christopher Paul et al; Georgia Tech Institute, Biomedical Engineering, 2009*

COLOSTRUM & STEM CELL RELEASE

Evidence for colostrum effects on stem cells

Colostrum is known to be a source of bioactive factors that affect immune cells, cytokines, interleukins, interferons, growth factors, peptides (PRP), Antibodies – IgG, IgA, IgM.

Growth factors in colostrum are known to help activate stem cells GH, IGF-1 and IGF-2, TGF- α , Epidermal GF, fibroblast-GF, platelet derived GF, granulocyte colony stimulating factor (CSF)

