

## Haelan 951's® "Mechanisms of Action" (short version)

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### **Haelan 951® - A fermented soy, organic, non-GMO nutritional aid**

\*\*This comprehensive list is compiled off of independent research from a variety of trustworthy sources. However, Haelan 951 is a food and not a drug, meaning it cannot treat any diseases nor should it take the place of any disease treatment. This list is our educated compilation of potential benefits from compounds, isoflavones, protease inhibitors, saponins, phytoestrogens, and phytic acids that are found in abundantly within fermented soy (the base of Haelan 951).\*\*

\*\*The term "Clinical Implication" does not mean Haelan 951 was tested in a clinical trial. This is meant to be an "If... then..." statement (i.e. If soy isoflavones help your cells with Apoptosis, then your body will experience appropriate cell death with your cancer cells). If it is listed below, there is research and tests to support that these mechanisms are found within Haelan 951.\*\*

### **Mechanisms of Action**

This product contains all 5 super foods discovered in 1991 by the National Cancer Institute after their \$20 million study searching for natural anti-cancer properties found in fruits and vegetables (Journal of the Nation Cancer Institute April 17, 1991):

- Isoflavones
- Protease Inhibitors
- Saponins
- Phytoestrogens
- Phytic Acid Compounds

### **Benefits of Haelan 951**

Below are the vast array of nutritional benefits which we expect will result from your taking ½ bottle of Haelan 951 twice daily.

#### **Apoptosis is allowed to proceed**

Clinical Implication: Apoptosis is the healthy, appropriate cells death which occurs at the right time after a cell has lived its full normal life. In contrast, cancer cells resist apoptosis and live eternally thereby threatening the wellbeing and health of the the cancer patient.

#### **DNA Repair is enhanced.**

Clinical Implication: DNA Damage is the hallmark of cancer. If DNA is repaired, a cell can stop being cancerous.

#### **Reactivates P-53 Tumor Suppressor Gene**

Clinical Implication: This raises levels of P-21 in breast, ovarian and prostate cancer cell and there suppresses cancer and allows apoptosis.

#### **P-21 Gene activity is increased**

Clinical Implication: This lifesaving gene is derived from the anti-cancer gene P-53 and allows the cancer cell death.

### **Anti-angiogenesis**

Clinical Implication: Angiogenesis is the creation of a blood supply to tissues low in oxygen life cancer. Without this new blood supply, cancer cells cannot grow. The drug Avastin stops blood coming to the tumor by destroying the angiogenesis signal VEGF (vascular endothelial growth factor) however this is fatal as your healthy blood vessels (to your heart and brain etc.) need VEGF! Mechanisms found within Haelan 951 can stop angiogenesis without destroying VEGF.

### **Reduces exosomes**

Clinical Implication: These are particles that inhibit immune defense against cancer; they inhibit both NK ("Natural Killer") cell function and gamma interferon.

### **Increases BAX 500%**

Clinical Implication: This is a gene which kills cancer cells via allowing apoptosis. Decreases BCL2 200%

Clinical Implication: This is a gene which allows cancer cells to thrive by evading apoptosis.

### **Improves Anti-apoptotic Ratio BAX/BCL2**

Clinical Implication: This means that the genes are now fighting cancer by enhancing apoptosis.

### **Reduces Estrogen Levels**

Clinical Implication: This is an anti-cancer effect since it also reduces ER-a

### **Increased Estrogen receptor-beta receptors – EB-B**

Clinical Implication: These kill cancers by allowing the action of natural chemo-toxic agents like 2-methoxyestradiol.

### **Decreased Estrogen receptor-alpha receptors – ER-A**

Clinical Implication: These receptors allow cancer cells to thrive and metastasize so they must be suppressed for your health.

### **Improves Ratio – ER-A/ER-B**

Clinical Implication: This allows for appropriate apoptosis and restoration of low cancer risk.

### **Decreases the matrix metalloproteinases enzyme**

Clinical Implication: This enzyme erodes collagen surrounding the tumor and frees cancer stem cells to spread throughout the body creating metastatic disease.

### **Produces Anti-Cancer metabolites**

Clinical Implication: Some of the most important of these are 3-Beta Adiol and 2-Methoxyestradiol which hunt down and kill cancer stem cells. Note the tragic and little reported facts that 1) chemotherapy and radiation do NOT kill stems cells and 2) 99% of the cells in a cancerous tumor a NON-cancerous

### **Prevents Protein Calorie Malnutrition (cachexia or starvation)**

Clinical Implication: This reversal of cachexia is life-saving since cachexia is the cause of 80% of cancer patient deaths. We must, at all costs, avoid the situation where you starve (no appetite!) while the cancer gorges itself.

### **Shuts Down NF-kB Mutation Pathway**

Clinical Implication: Cancer cells are smart and they try to mutate using the NF-kB pathway in order to escape death when the immune system or the chemotherapy is applied.

### **Enhances tumor necrosis factor (TNF)**

Clinical Implication: TNF is a pillar of our immune system required to fight cancer.

### **Decreases Viral and Bacterial Burdens**

Clinical Implication: Mechanisms within Haelan 951 can clean house and allow the immune system to work without distraction.

### **Increases function of GADPH gene expression**

Clinical Implication: This gene expression is one way to measure cancer die off.

### **Gives clear margins for surgical removal of tumors**

Clinical Implication: If surgery is indication, the goal is 1) to remove the cancerous cells and 2) to cut away leaving a "clean margin" meaning leaving no residual cells.

### **Overcomes depression and improves quality of life**

Clinical Implication: When the soul and spirit are less troubled, the immune system thrives.

### **Non-Specific Immune Stimulation Increased 700%**

Clinical Implication: The symbiosis of taking a product offering the 5 super foods (Haelan 951) and the myriad benefits described above amount to a huge immune boost.

### **Why you may want to stop drinking Haelan 951 despite its incredible potential benefits:**

The bitter taste is not pleasant. But we have a solution: we have found that mixing Haelan 951 (1/2 bottle) with Naturally Sweet (1/2 packet) and Ola Loa orange (1 packet) and whatever amount of cold water you desire is a workable solution to the taste issue!

### **Disclaimer**

**We are not medical professionals and any suggestions listed are not intended to be considered as prescribing or indicate a level of medical expertise. The information provided is intended for educational purposes only, and should not be considered a replacement for the expert advice of a qualified health practitioner. These statements have not been evaluated by the Food and Drug Administration. This information is not intended to diagnose, treat, or cure any disease.**



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