



# HOMEOVITALITY

*The merging of multi-disciplinary  
biomedical and scientific research*

## INTRODUCTION.

After many years of research, Dr. Peter H Kay, world renowned scientist, molecular pathologist, immunologist and geneticist developed the Homeovitality micro-DNA therapy system. He developed it to enable everyone to benefit from emerging scientific discoveries that may be used to optimize health, protect against disease and promote natural super-health. The Homeovitality system delivers these benefits by taking advantage of the same proven high dilution healthcare technology that is used in Micro-Immunotherapy.

Currently available Homeovitality products have been designed to target genetic systems that have been scientifically proven to slow down the aging process, help people live longer, support heart health, kidney health, lower blood pressure, maintain effective cell mediated immunity that helps to avoid development of rheumatoid arthritis, protect against bone fracture, especially in post-menopausal women, boost memory and IQ, help people to lose weight more quickly and then maintain a healthy BMI.

Some of the genes targeted by Homeovitality system also have the potential to suppress growth of breast cancer cells, symptoms of hyperactive thyroid disease, progression of Alzheimer's disease and resolve disorders such as osteoporosis and type 2 diabetes.

## THE HUMAN GENOME PROJECT.

In 2003, one of the most ambitious scientific projects ever undertaken, sequencing of the human genetic blueprint (the Human Genome Project) was completed. Since then, scientists have learned much more about genes that cause disease, genes that prevent and cure disease, genes that affect cognitive functions, genes that combat cancer, genes that control weight gain, genes that neutralise toxins and genes that promote different forms of natural super-health.

With regard to disease, scientists are discovering that similar disease symptoms can be caused by quite different genes in different people. For example, a particular vital cellular function may depend on the interaction of a receptor on the surface of the cell with a specific hormone. Loss of that cell's vital function, manifest by disease, may be brought about by either a deficiency of the hormone or its cell surface receptor; two completely different biological defects, involving quite separate genes. Rather than the conventional pharmacological approach which is to suppress symptoms common to each of the different forms of the disease, specific gene targeting methods such as Homeovitality will be of great benefit to resolve each of the different underlying causes of the same disease.

## ADVANCES IN HEALTHCARE DELIVERY SYSTEMS.

High dilution technology has been used successfully for many years to help alleviate disease. Using sophisticated molecular biological techniques, Sunila and colleagues have recently proven in the laboratory that highly diluted substances can, in fact, activate various genes or different parts of the genetic blueprint [19].

As indicated above, many genes can cause and even worsen disease. So, to increase the specificity and safety of gene targeting technology using highly diluted substances, Dr. Marichal developed the micro-Immunotherapy system. This system uses highly diluted DNA molecules with precise nucleotide sequences to target genes that are involved in immunity. His system proved highly successful. As indicated, the Homeovitality system uses exactly the same approach to target genes that have been proven to promote health or correct specific disease processes.

So, how could highly diluted DNA molecules promote gene activity through their sequences?

Two remarkable new properties of DNA have recently been discovered. They provide clues to a mechanism for micro-Immunotherapy and micro-DNA therapy.

### **Telepathic DNA.**

Firstly, Baldwin and colleagues discovered that DNA molecules are able to communicate with each other through sequence identity [20]. It appears that DNA molecules have some way of emitting signals that can be recognized by other DNA molecules with the same sequence. This newly discovered sequence-specific DNA molecule signal recognition system can be thought of in the same way that sequences of numbers can be used to communicate between people via the telephone system.

Is anything known about a possible DNA molecular interactive signalling system? Yes, there is. Montagnier and colleagues have recently discovered another remarkable novel property of DNA [21] which helps to explain how highly diluted DNA molecules with precise nucleotide sequences may be used to target specific genes.

### **DNA electromagnetic signals.**

Montagnier and his fellow scientists have demonstrated that DNA molecules have the capacity to emit electromagnetic signals that are unique to the sequence of each DNA molecule. The signals can be recognised by other DNA molecules with the same sequence.

Importantly, emission of the electromagnetic signals can be induced when DNA molecules have been stimulated mechanically, or by exposure to DNA molecules that are already emitting electromagnetic signals. These findings may explain why potentization is a necessary part of the preparation of molecules used in Micro-Immunotherapy. Interestingly, Montagnier and colleagues' work [21] showed that optimum DNA electromagnetic stimulation and signal emission is restricted to a fairly narrow dilution range approximately equivalent to homeopathic 5C or 6C ( $10^{-10}$  or  $10^{-12}$ ). That is why Homeovitality products are used exclusively at a dilution of 6C.

## **THE FUTURE OF HOMEOVITALITY.**

In the years to come, as new information about genes and their potential to promote super-health, improve general health and well-being or treat diseases comes to hand, the most beneficial ones will be incorporated into the Homeovitality range.

A number of new products are under currently under development. One of them will target the important wound healing gene CCN1. This gene also combats cancer [22].

Another product under development is designed to target a remarkable gene that Prof. Prado describes as "A restless warrior against allergies, infections and cancer".

Scientists at Emory University have recently identified a gene that plays an important role in suppressing prostate cancer. At the University of Texas, researchers have just discovered another gene that has very important anti-cancer properties.

Another exciting product under development is designed to combat premature hair loss in males. It is now known that the hormone involved in the most common form of hair loss in males is dihydrotestosterone (DHT). DHT causes premature hair loss by binding to special receptor sites on the cells of the hair follicles. Binding of DHT to hair follicles reduces hair growth.

The enzyme aromatase or CYP19A1, decreases the formation of DHT, therefore, increasing aromatase activity using the Homeovitality system will help to reduce the formation of DHT and slow down premature hair loss in males.

Usually, new discoveries and pharmacologically based medications that follow take at least ten to fifteen years before they can be of benefit to the community. The Homeovitality system provides an alternative safer way of delivering health benefits immediately.



## SAFETY OF micro-DNA THERAPY.

The safety of Homeovitality micro-DNA therapy products is assured because they are designed to target only genes that have been proven to promote health, protect against disease or correct disease. Unlike other remedial systems that use high dilution technologies, they cannot cause aggravations or symptoms of disease in healthy subjects. The products are sterile and remain sterile after opening. It is perfectly safe to take more than one product at a time because each one targets a completely separate part of the genetic blueprint.

## MANUFACTURERS

Presently, Homeovitality products are manufactured in compliance with standards set down by the Australian Therapeutic Goods Administration (TGA) in an Australian laboratory licensed by the Australian Department of Health, (TGA Licence No 50725) to produce medicines to a GMP standard accepted by the World Health Organisation. The gene targeting DNA molecules were prepared, purified and sequenced by the Melbourne laboratory Genetic Technologies (GTG), one of Australia's leading and internationally recognised genetics laboratories.

## HOW TO USE HOMEOVITALITY PRODUCTS.

Homeovitality products are supplied in liquid form. Preferably, daily, 8 drops are to be placed in a little clean water. The mixture is then swished round the mouth on a clean palate and swallowed. The client should not eat, drink or smoke for 15 minutes before and after taking the product. The 8 drops may also be taken directly under the tongue on a clean palate. Suitable for everyone including children aged 4 and over.

## REFERENCES.

1. Matsumura et al., Identification of the human klotho gene and its two transcripts encoding membrane and secreted klotho protein. *Biochem. Biophys. Res. Commun.*, 242:626, 1998.
2. Kuro-o et al., Mutation of the mouse klotho gene leads to a syndrome resembling ageing. *Nature*, 390:457, 1997.
3. Arking et al., Association between a functional variant of the KLOTHO gene and high-density lipoprotein cholesterol, blood pressure, stroke, and longevity. *Circ. Res.*, 96:41, 2005.
4. Rosenblatt & Kuro-O. Klotho, an aging suppressor gene. *Horm. Res.*, 67:191, 2007.
5. Witkowski et al., Klotho- a common link in physiological and rheumatoid arthritis-related aging of human CD4+ lymphocytes. *J. Immunol.*, 178:771, 2007.
6. Wolf et al., Klotho: a tumour suppressor and a modulator of the IGF-1 and FGF pathways in human breast cancer. *Oncogene*, 27:7094, 2008.
7. Zhao et al., Cloning and sequence analysis of the human SNAP25 cDNA. *Gene*, 145: 313, 1994.
8. Hou et al., SNAP-25 in hippocampal CA3 region is required for long-term memory formation. *Biochem. Biophys. Res. Commun.*, 347: 955, 2006.
9. Zhou et al., Structure of the human M(2) muscarinic acetylcholine receptor gene and its promoter. *Gene*, 271: 87, 2001.
10. Dick et al., Association of CHRM2 with IQ: converging evidence for a gene influencing intelligence. *Behav. Genet.*, 37: 265, 2007.
11. <http://www.foodnavigator.com/Science-Nutrition/Leptin-replacement-therapy-to-fight-obesity>.
12. Blain et al., Serum leptin level is a predictor of bone mineral density in postmenopausal women. *J. Clin. Endocrinol. & Metab.*, 87:1030, 2002.
13. Hedbacker et al., Antidiabetic effects of IGF2BP2, a leptin regulated gene. *Cell Metab.*, 11:11, 2010.
14. Suh et al., Adipose is a conserved dosage-sensitive antiobesity gene. *Cell Metab.*, 6: 195, 2007.
15. Lai et al., WDR33, the ortholog of Drosophila adipose gene, associates with human obesity, modulated by MUFA intake. *Obesity*, 17: 593, 2009.
16. [www.dancewithshadows.com/business/pharma/adipose-obesity-gene.asp](http://www.dancewithshadows.com/business/pharma/adipose-obesity-gene.asp).
17. Gorn et al., Expression of two human skeletal calcitonin receptor isoforms cloned from a giant cell tumor of bone. *J. Clin. Invest.*, 95: 2680, 1995.
18. Taboulet et al., Calcitonin receptor polymorphism is associated with a decreased fracture risk in post-menopausal women. *Hum. Molec. Genet.*, 7: 2129, 1998.
19. Sunila et al., Dynamized preparations in cell culture. *Evidence-Based Comp. Alt. Med.*, 6:257, 2009.
20. Baldwin et al., DNA double helices recognize mutual sequence homology in a protein free environment. *J. Phys. Chem.* 112:1060, 2008.
21. Montagnier et al., Electromagnetic signals are produced by aqueous nanostructures derived from bacterial DNA sequences. *Interdiscip. Sci. Comput. 2009, Life Sci.* DOI:10.1007/s12539-009-0036-7.
22. Jun et al., The matricellular protein CCN1 induces fibroblast senescence and restricts fibrosis in cutaneous wound healing. *Nature Cell Biology* 12: 676, 2010.



## The Homeovitality Range.



### Super Heart, HoV-KLO

Uses:  
**Anti-aging**  
**Heart health**  
**Kidneys**  
**Immunity**  
**Hypertension**  
**Cancer**  
**Arthritis**

KLOTHO (KLO) is one of the most important health promoting genes ever discovered. It was first characterised by Matsumura and colleagues over a decade ago [1]. It encodes a type-I membrane protein that is related to the beta-glucosidases.

Since its discovery, and after many years research, scientists have confirmed that the KLO gene plays a very important role in slowing down the ageing process, helping to keep the heart and kidneys healthy and protecting against the development of many diseases [see references 2, 3 and 4]. More recently, Witkowski and co-workers showed that reduced KLO activity is associated with impaired immunity and increased susceptibility to development of rheumatoid arthritis [5]. Unfortunately, KLO activity declines with age.

KLO also helps to fight cancer. Wolf and colleagues have recently discovered that increased KLO activity suppresses the growth of breast cancer cells [6].



### Super Weight Loss, HoV-LEP/ADP

Uses:  
**Weight loss**  
**Overweight**  
**Diabetes**  
**BMI maintenance**  
**Thyroid**

Major advances have been made with respect to understanding the genetic control of weight gain. For example, leptin, the hormone produced by the LEP gene [11], has been shown to play an important role in appetite suppression.

Leptin promotes new bone formation in a dose dependent manner [12]; so, low leptin activity is also associated with reduced new bone development. Leptin can also correct late onset diabetes independently of its role in weight loss. [13].

Another important discovery regarding genetic control of weight gain involves the ADP gene. ADP is referred to as "the anti-obesity gene" because it plays an important role in reducing fat accumulation [14].

Recently, scientists at Tufts University discovered that most of us have inherited a sluggish ADP gene that slows down the way that fat is burnt off or turned into energy [15]. It has even been suggested that the sluggish ADP gene is directly responsible for development of late onset diabetes associated with obesity [16]. For more information regarding the significance of the genes targeted by the Homeovitality Super Weight Loss product please access the link <http://www.positivehealth.com/article-view.php?articleid=2913>



### Super Memory/IQ, HoV-CM2/S25

Uses:  
**Memory loss**  
**IQ**  
**Dementia**  
**Alzheimer's disease**  
**Lack of attentiveness**

In recent years, scientists have identified genes that play an important role in memory recall, intelligence and attentiveness.

The gene SNAP-25, located on human chromosome 20, was discovered by Zhao and colleagues [7]. It is expressed in the brain and encodes synaptosomal-associated protein, 25kDa, a presynaptic plasma membrane protein involved in the regulation of neurotransmitter release. Reduced SNAP-25 gene activity results in memory loss [8].

Another gene that affects mind processes was discovered a few years ago. It is called CHRM2. The fine structure of the CHRM2 gene was determined by Zhou and colleagues [9]. It encodes a cholinergic receptor, muscarinic 2, that belongs to a larger family of G protein-coupled receptors. In contrast to SNAP-25, CHRM2 is located on chromosome 7. CHRM2 has been proven to be a key promoter of intelligence [10].



### Super Strong Bones, HoV-CTR

Uses:  
**Prevent bone fracture**  
**Osteoporosis**

With age, women become more susceptible to bone fracture. A few years ago, Gorn and colleagues [17] were the first to completely characterise the gene that encodes the calcitonin receptor (CTR). The calcitonin receptor is a cell membrane component that acts as a receptor for the hormone calcitonin.

Calcitonin and its receptor have been shown to play an important role in bone formation.

Importantly, Taboulet and colleagues [18] discovered that post-menopausal women are less likely to fracture their bones through a process involving the CTR gene.

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