SKIN CARE

INTRODUCTION

Our skin, especially the face, is a mirror of our age, and the first signs of aging are valible as early as after the age of 30. While time cannot be stopped, many of its effects on the skin can cert, inly he showed down. The most effective method is prevention.

Skin aging depends on two main factors: chrono-aging, a natural process taked to the passage of time and based on one's genetics, and photo-aging, which is the action of sun raiss on the ckin, as well as lifestyle factors such as diet, physical activity, smoking, drugs, etc.

However, the negative impact of time on the skin is not the same for all individuals, as it depends on predisposing factors written in our DNA. The presence of variants (SNPs) in the genes involved in these physiological processes can modulate individual susceptibility, determining different responses to environmental agents and, consequently, influencing the skin aging process. The concept of personalized prevention is based on this premise: if we know the characteristics of our body through the study of DNA, we can act in the most effective way to make it function optimally.

Genetic testing allows us to highlight the main areas of weakness in the fundamental components of the skin structure.

WHAT THE REPORT INCLUDES:

- Detailed Explanation of the specific test conducted and recommendations to follow.
- Summary Table showing the list of metabolic areas investigated for each test and the summary of the respective results obtained from the analysis of your DNA, providing a quick overview of your general situation and highlighting any compromised areas.
- Bibliography containing the scientific references of the test.

HOW TO INTREPRET THE RESULTS:

Low Risk Indicates that the variants identified in the analysis do not unfavorably alter the enzymatic activity of the proteins they encode and/or do not increase the risk associated with contain authologies.

Joden te Risk: Indicates that the variants identified in the analysis slightly unfavorably a ter the enzymatic activity an u/or lightly increase the risk associated with some disorders of pathologies.



High Risk: In a cates to at the variants ic entries, in the analysis significantly unfavorably alter the enzymetric activity, resulting in a higher risk of developing certain associated disorders or pathologies.

The illustrated results, along with the considered and lice upons and explanations contained in the following pages of this booklet, should not be considered a medical diagnosis. It is important to remember that genetic information is only part of the total information necessary for a complete uncontaining of a person's health. Therefore, the data reported here serve as a tool for the creating do for to make a corruct evaluation of the patient's physiological state and suggest an appropriate personalized are timent.

SKIN AGING BASIC

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SKIN AGING BASIC

1. PHOTOAGING

The test evaluates the risk of skin aging with respect to extrinsic factors, namely:

SUSCEPTIBILITY TO ULTRAVIOLET RAYS: UVA AND UVB

Sensitivity to the harmful effects of ultraviolet radiation is heritable. Numerous large-scale studies have identified genetic variations that increase sensitivity to the sun and the tendency to suffer from sunburn (erythema). Some people's sum is therefore 3-4 times more vulnerable to sun damage. In these cases, there is a tendency to develop in ackees, a greater propensity not to tan easily, and to suffer sunburn.

RECOMMENDED SOLUTIONS:

- Use tight protection creates (pre-scably with added vitamin A).
- Lyno e yourself to the sun for a limited time every day and prefer the sun in the first part of the morning or the second part of the affronce.
- Protect the area round the eyes y ry we , usi g sunglasses.

Failure to follow these preclutions with great discipline fill almost inevitably lead to rapid skin aging, in the form of loss of skin elas icity, and the appearance of premature blemishes and wrinkles. The genetic analysis examines the following gene:

• Gene responsible for the risk of ext. nsic sum aging: ASIP (.gouti Signaling Protein)

Repeated exposure to ultraviolet radiation vOV, UVP causes premating skinlaging. The effect is achieved through DNA damage to epidermal cells, persistenc information, and originative cress. The analysis of two variants of a point in this gene reveals whether the individual examined falls into the category of those who have skin that is more sensitive than the general population to environmental insults, promatic solar radiation and UV emissions from tanning lamps, and therefore a greater rendency to skin aging. In the European population, 55% of individuals fall into this category.

The information acquired allows us to formulate a correct strategy to protect the kin from premature aging.

YOUR RESULTS:

Lab ID	Gene	Allelic variants	Genotype		Predisposition				
EXTRINSIC SKIN AGING									
GTS005	ASIP	G	G	6	1014				
(Agouti Signaling Protein)		Т	G	G	LOW				
WHAT YOUR GENETICS SAY									
There is a LAVON ABLE ger Lic profile for the analyzed gene									
VZ O									



2. ANTIOXIDANT CAPACITY

The test evaluates the risk of skin aging with respect to intrinsic factors, namely:

SUSCEPTIBILITY TO DAMAGE CAUSED BY FREE RADICALS

An essential enzyme for the removal of free radicals (SOD2), which is less functional (with half the efficiency) when not localized in its natural site of action, the mitochondrion, exposes a person to the possibility of greater damage from free radicals produced physiologically by all the cells of their organism. This will have a "visible" effect, especially at the epidermis level, with a greater tendency towards skin aging, presenting as thin, atrophic, pale, loose skin extensively furrowed by wrinkles and inelastic.

RECOMMENDED SOLUL ONS

- Druy and continuous errorints to of strong antioxidant nutraceuticals. Alpha-tocopherol and lipoic acid are non-mended, as the nave well-documented effect as scavengers of oxygen radicals produced as the respiratory chain level
- A hearthy on balanced diet includer the intake of many foods' rich in antioxidants such as fruits and vegetable . In fare cular, the intrake of vitamics A, C, and E, and beta-carotene is essential. The best foods against free radicals are:
 - Blueberries and ed function rich vitamin A, that in C and anthocyanin glycosides
 - Carrots, rich in bet carotone and vitamin C
 - Kiwis and citrus fruits rich in vita ning
 - Beets rich in vitamin B9, vitamin ar I potassium
 - Goji berries, real antioxidant, upe loop
 - Dark chocolate rich in flavonoids
 - Green tea and white tea, rich in polyp enol and catechins
 - Oilseeds and nuts

The genetic analysis examines the following gene:

• Gene responsible for intrinsic skin aging risk: SOD2 (SuperOxide Asmutase type 2)

The antioxidant activity of the cells of the epidermis is the main way in which they defend themselves from the damage of ultraviolet radiation, other environmental factors such as air polluants and smoke, and from free radicals that are normally produced within the cells themselves. Antioxida is activity depends on various genes, among which the one for the SOD2 protein stands out, which is found in the mitochondria, the energy centers of the cells where most intrinsic free radicals are produced. SOD2 is so important that life is not possible in its absence. The analysis of the variant of a point of this gene allows us to understand whether it will have its correct localization and action in the mitochondria. Consequently, it indicates its greater or lesser activity. Those with lower SOD2 activity than the general population will consequently be more exposed to damage from free radicals.

The information acquired allows us to formulate a correct strategy to support the antioxidant activity of epithelial cells with targeted food supplements and cosmeceutical creams.

YOUR RESULTS:

Gentras ID	Gene	Allelic variants	Genotype		Predisposition				
INTRINSIC AGING									
GTS006	SOD2	т							
(SuperOxide Dismutase type 2)		С	С	C	HIGH				
	0								
WHAT YOUR GENETICS SAY									
There is an On-AVC (ALLE genetic provide for the analyzed gene, we recommend the use of antioxidant									
nutraceutices (place see above).									
			M_						
		4.							
S.									
ÚX									
\mathbf{C}									