

FOOD INFLAMMATION PROFILE WITH GENETIC COMPONENT

MEDICAL REPORT





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♂ John Smith, 67 years

GEK Lab

### GENIC COMPONENT

### **TNFSF13B GENE**



We have analysed from your DNA one particular gene of chromosome 13 (TNFSF13B) related to BAFF's production. The results showed that:

the gene corresponds to the most frequent variant present in the population (BAFF-wt)\*

(\*) The gene variant TNFSF13B BAFF-var was examined with the Custom TaqMan SNP Genotyping test (Assay ID: ANZTJ7R) (Applied Biosystems, California, USA) performed with Real-Time PCR Rotor-Gene Q (Qiagen, Germany). The allelic discrimination analysis was carried out with the Rotor-Gene Q Series Software 2.1.0 (Qiagen, Germania).

### Absence of a genetic predisposition to the development of higher BAFF levels

The analysis of your DNA did not detect the presence of the specific variant in the gene encoding BAFF. This is certainly a favourable result that, in case of high levels of this cytokine, indicates that the control of lifestyle, including nutrition, physical activity and personalized integration, can effectively modulate these levels.

BAFF production depends on the immunological response to external stimuli as well as endogenous ones. Among these, as explained by Lied<sup>(F3)</sup>, nutrition has a primary role, and repeated contact with the same foods contributes to keeping high levels of the inflammatory cytokine. BAFF is involved in most of the body's defensive processes and is strongly implicated in the regulation of antibodies production. An unjustified increase in BAFF can lead, for example, to the excessive synthesis of autoantibodies, favouring the development of autoimmune diseases. BAFF itself can play a role in many of the most common and frequent diseases and disorders, involving the skin, joints, muscles, endocrine system, and metabolism.

Controlling the increase of BAFF is a reliable clinical significant tool for the proper and effective prevention of these diseases. Therefore the levels of BAFF measured and currently present in your organism depend mostly on environmental factors and your diet has a decisive role. BAFF rises when food or groups of immunologically similar foods are consumed in excess or repeated over time<sup>(F1-F3)</sup>. The suggested dietary approach will, therefore, allow modulating inflammatory responses and the correlated BAFF levels.



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### DIAGNOSIS OF THE INFLAMMATION LEVELS





The integrated reading of the values found in your plasma confirms the presence of a moderate level of inflammation, probably related to food. We advise rebalancing your diet.

**BAFF** is produced both in immune cells and in different body tissues. The interaction with food can induce the production of BAFF, which, in turn, stimulates the immune system to produce antibodies.

**PAF** is a lipid mediator that acts as an indicator of inflammation triggered by different sources, including the inflammatory response related to food and allergic reactions.

BAFF and PAF are important cytokines that activate the immune system and are also involved in numerous immunological reactions; they are not solely related to the nutritional aspect. However, an effective dietetic approach can typically reduce PAF and/or BAFF levels, as well as the resultant inflammation.

If necessary, you can analyse these values in the future, based on your current results.

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### DIAGNOSIS OF FOOD PROFILE

### **The Great Food Groups**

The IgG values have indicated an excessive or repeated use of the foods present in the groups of:







### Pay attention to

WHEAT and GLUTEN-FREE DIET - A consistent level of IgG for gluten may persist physiologically even for long periods after starting a gluten-free diet and a careful evaluation of the possible contaminations that could be the cause of the production of specific antibodies is required. Alternatively, it could indicate an excessive consumption of products based on deglutenized flours (which contain other protein antigens in addition to gluten).

### ALLERGIES (IgE)

The antibodies evaluated in this test are Immunoglobulins G, whose level can decrease to almost zero when a food has not been consumed in a long time. Anyone who has experienced IgE-mediated allergies to certain foods, or who has had anaphylactic reactions after eating certain foods, should NOT include them in their dietary plan (even if indicated in the report), except in the case of direct medical supervision.

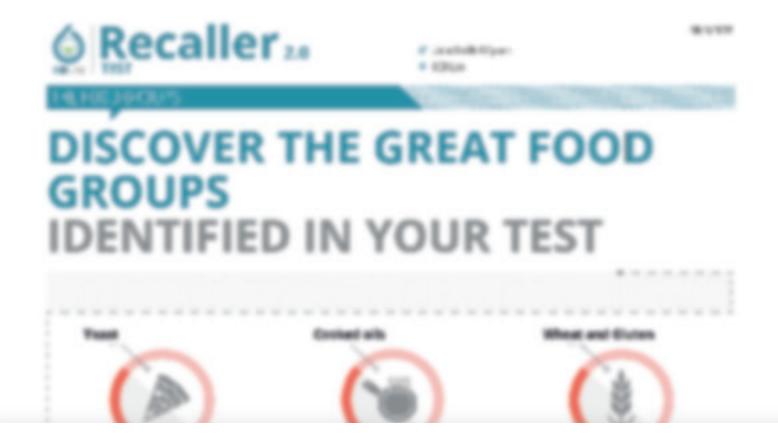






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### THE FOOD GROUPS



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When oil is used for cooking, the structure of its forming fat molecules changes in different ways. This happens when oil is used for frying, to grease the cooking pan, or when it is one of the ingredients of the recipe (regardless of its industrial or home-made origin).

In order to set up the correct rotation dietary plan, we must avoid industrial foods and cook at home without oil. We can add water during the preparation; in this way the cooking temperature never reaches 100 °C and the natural food oils are conserved. The preferred type of oil can be added afterward, raw, at the end of the cooking process.

These simple instructions will confer a more homogenous taste to the dish, while retaining its nutritional properties and the flavor of the used oil. For example, the Omega-3 fatty acids in fish are preserved much better during a gentle and low-temperature preparation.

Each oil type, depending on the antioxidant content, reacts differently to physical agents; including heat.

The oils that best maintain their properties at high temperatures are extra-virgin olive oil and peanut oil (the latter is able to withstand higher temperatures compared to others). Both should be "cold-pressed", in this way we make sure that the structural modifications caused by cooking did not occur during the extraction of the product. Extra-virgin olive oil and peanut oil should be used on free days, or when it is absolutely necessary to "grease" the pan or the oven tray.

It is always advisable to limit the cooking time with oils and to cook at the lowest possible temperatures.

### ATTENTION!

The roasting process of oilseeds irreversibly modifies their content of polyunsaturated fats; so the consumption of nuts or roasted oilseeds should be avoided during diet days.



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### **ROTATION DIET**

### The rotation diet

You can begin your new nutritional approach with the understanding that, as with infant weaning, over the course of a few months, food-related inflammation will be under control with a marked improvement in your overall health and well-being.



### **Diet meals**

Conform your meals with foods from the always allowed food list.



### **Free meals**

Incorporate all the foods that you usually eat, including also those on the list of food to avoid during the diet meals.

### Standard rotation: the first 8 weeks

The initial nutritional scheme must be applied every day, except for a midweek day (generally Wednesday) and 4-weekend meals (usually Saturday's dinner and all Sunday).

	mon	tue	wed	thu	fri	sat	sun
Breakfast	0	0	ü	0	0	0	ü
Lunch	0	0	ü	0	0	0	ü
Dinner	0	0	ü	0	0	Ü	ü

### Standard rotation: the following 8 weeks

Follow-up rotation diet.

	mon	tue	wed	thu	fri	sat	sun
Breakfast	0	0	Ü	0	0	Ü	ü
Lunch			ü	0	0	Ü	ü
Dinner		$\ddot{c}$	ü			ü	$\ddot{c}$

### **Maintenance**

	mon	tue	wed	thu	fri	sat	sun
Breakfast	Ü	0	ü	ü	0	ü	ü
Lunch	Ü	0	ü	Ü	0	ü	ü
Dinner	Ü		ü	Ü	0	ü	ü

### Special rotation diet (children under 14, holidays)

The following diet is indicated for children under 14 years of age, who need a more varied food intake, and for adults during holidays or vacation periods.

	mon	tue	wed	thu	fri	sat	sun
Breakfast	Ü	0	Ü	Ü	0	Ü	ü
Lunch	Ü	0	ü	ü	0	Ü	ü
Dinner	ü	0	ü	ü	0	Ü	ü



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