

GENETIC TESTING









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X CONTAINS GLUTEN

Buckwheat, amaranth, millet, quinoa, rice, oats (must state that they are not produced in a factory that produces gluten goods), fruit and vegetables, beans, seeds, legumes, nuts, potatoes, eggs, dalry, oils and vinegar, fish, lean red meat, chicken and seafood. Rum, tequila and wine are generally gluten free, as are some

Barley, bulgur, cats (processed in factories that produce gluten-containing grains), rye, seltan, couscous, cracked wheat, durum, einkorn, fu (common in Asian foods), gliadin matzo, semolina, spelt, pastas, breads, crackers and many, seasonings and spice mixes including soy sauce, MSG, marinades, preservatives and stabilisers. Most beer unless specifically brewde to be glutten free. Some whiskeys





What is DNA?

DNA is your body's instruction manual, controlling every single function from when you were only made up of a few cells, until now. It looks like a twisted ladder, made up of two halves - you inherit one half from your mother, the other from your father. This combination is what makes you, you.

Each 'rung' of the ladder contains two letters of DNA code called nucleotides which bond together in pairs: **A(adenine)** and **T(thymine)** bond together, as do **C (cytosine)** and **G (guanine)**. **Genes** are portions of the ladder of which use combinations of the nucleotide code to perform specific functions.







WHAT ARE WE TESTING?

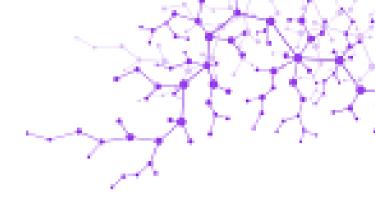
You have an estimated 20- 25,000 different genes. Coding for the colour of your eyes to our immune system, to whether you like the taste of coriander or not.

We are testing around 25 of the most useful genes in relation to our health and wellbeing. We can then use this information to help shape your nutrition, your lifestyle and your supplements to optimise your health outcomes. Focusing on supporting areas where you may have a genetic weakness, and capitalising on the areas where you are strong.

This is truly personalised nutrition and lifestyle.







RESULTS

Your results are shown by a combination of the letters ATCG along with a traffic light system to indicate if your result is good, neutral, or bad.

Genetic variants are known as SNP's (single nucleotide polymorphism). Once we can see which SNP you have - we all have some - we can start to see a pattern and help you make adjustments to support.

	GENE DESCRIPTION	RESULT	IMPACT & ADVICE
	GENE CODE - Gene Effect Explanation of the role the gene plays and what effect genetic variants might have, symptoms etc.	GG	An explanation of your result, how you might be affected along with specific diet and lifestyle advice
A green result indicates either no variants or a positive genetic variant An amber result usually indicates one genetic variant present and a mildly negative impact A red result indicates a negative impact either due to both variants being present or a "wild type" result that is not as beneficial as the variant	GENE CODE - Gene Effect Explanation of the role the gene plays and what effect genetic variants might have, symptoms etc.	AG	An explanation of your result, how you might be affected along with specific diet and lifestyle advice
	GENE CODE - Gene Effect Explanation of the role the gene plays and what effect genetic variants might have, symptoms etc.	AA	An explanation of your result, how you might be affected along with specific diet and lifestyle advice





THE 8 ELEMENTS OF HEALTH



DIGESTION



Find out if you have lactose or gluten digestion issues.

SLEEP



We can test genes such as the CLOCK gene to find out if you are an early bird or night owl? Then learn how to make changes to help you sleep better.

EXERCISE



From testing your COL1A1 and GSTM1 genes to find out how well you recover from exercise. Then make adjustments to your training and supplements to improve performance.

STIMULANTS



Find out how well you tolerate caffeine and alcohol by testing genes ADH1B CYP1A2.

METABOLISM



Understand how your genes affect your hunger and satiety by testing FTO and LEPR

STRESS



Work out how well you regulate stress hormones such as cortisol, and how this might affect your blood pressure. By testing ACE and FKBPS

IMMUNITY



Are you more prone to allergic reactions? We can test your DAO and HNMT to find out what your genetic disposion is.

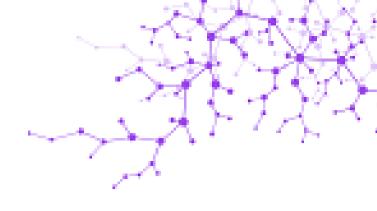
NUTRIENTS



Understand how well your body processes nutrients from your food. This will work out whether you need to adjust your diet or add supplementation







Your Dashboard

1. Digestion



- FUT2 Gastrointestinal infections
- HLA-DQA1 Gluten intolerance
- LCT Lactose intolerance

4. Immunity



- DAO Histamine
- HNMT Allergies
- TNF-a Inflammation

5. Nutrients



- FTO Protein
- TCF7L2 Carbohhydrates
- NOS3 Omega-3

8. Sleep



- CLOCK Early bird / night owl
- MTNR1B Melatonin receptivity
- PER Circadian rhythms

2. Metabolism



- FTO Obesity & T2D
- LEPR Appetite / Satiety
- TCF7L2 Insulin Secretion

3. Stress



- ACE Blood Pressure & Electrolytes
- COMT Anxiety, Pain, Stress
- FKBP5 Cortisol Regulation

5. Nutrients



- BCMO Vitamin A
- MTHFR Vitamin B9
- FUT2 Vitamin B12

5. Nutrients



- SLC23A1 Vitamin C
- GC Vitamin D • VDR - Vitamin D

6. Stimulants



- ADORA2A Adenosine detoxification
- ADH1B Alcohol sensitivity
- CYP1A2 Caffeine metabolism

H-

7. Excercise

- ACE- Endurance Vs Power
- COL1A1 Tendon, ligament injury risk
- GSTM1 Recovery





WHAT CAN YOU LEARN FROM YOUR GENES?

some examples

HDL-DQA1 - Gluten is the main protein found in various grains such as wheat, barley and rye and is known to cause an immune reaction in people with coeliac disease. A variant on the HLA-DQA1 gene will mean you have a familial predisposition to either coeliac or gluten intolerance.

LCT- Lactose is the natural sugar found in dairy products. After the age of 5 over 65% of the population have a reduced ability to digest lactose. Find out whether lactose is driving your digestive issues.

COL1A1 - What is your genetic risk of tendon and ligament injury? Collagen is the key ingredient in healthy tendons and joints. Reduced ability to synthesise will increase injury risk.

LEPR - Helps to regulate appetite and satiety, telling your body when you are full. It also contributes to energy expenditure. Discover if you have a tendency to overeat and naturally conserve energy.







Once you have received your results I am sure you will have lots of questions - thats why the support of a Nutritional Therapist is so important.

Your personalised report

We will send you the link to access your report as soon as it is available - it is hosted on YourGutMap and you can access this at any time in the future - you do not need to remain a client to see your information.

Once your results are available we will send you a link to book your interpretation call.

Decoding the report

During your interpretation call I will share my thoughts on the results along with answering any questions you may have.

We will always be lead by your health goals and current symptoms.

We will create a personalised protocol that may included additional supplements and lifestyle recommendations.

Further consultations

Feel that you need a bit of extra support, or you have a complicated medical history. We can arrange for additional calls, or why not book a package that includes full support and testing?

Email: wendy@hillstart.me.uk

Call: 07726 378500

You can book a free call and I will answer any questions you have about the testing.



