



WHAT ARE MASTER INGREDIENTS?

A group of ingredients that influence "master genes" in the body. These master genes can significantly impact how we...

- Manage inflammation and damage to the body
- Support detoxification
- Handle blood sugars
- Handle fat





Quick recap

- Genes are our blueprint for life
- A gene is a distinct stretch of DNA that determines something about who you are
- Genes manage the orchestra of life by making proteins
- Each gene is essentially a recipe for a making a certain protein
- Proteins build, regulate and maintain the human body
- Examples of how proteins work: become bone, muscle, a hormone Proteins are the fabric of our body









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How food works with genes

- · Bioactives can set in motion the process by which genes make proteins
- Once proteins are formed, they needs vitamins and minerals (cofactors) to do their work
- · Food provides bioactives and cofactors
- Food provides the ignition for genes and the nutrient support for the proteins they produce
- Which bioactives and which cofactors genes and their proteins need, depends on the health outcome we are targeting
- In the Genomic Kitchen we look at specifically at how genes help manage oxidative stress, inflammation and metabolism





What's the difference?

- Antioxidants like Vitamin A, C and E which you get from your diet, put out the fire like a teacup of water
- They extinguish the fire on a 1:1 ratio



Master Influencer Ingredients

- Turn on the Nrf2 gene which signals the production of antioxidant enzymes (proteins) that act like a firehose in the cell
- They extinguish at a rate of millions per second
- The body works with both the teacup and the firehose to extinguish fires in our cells
- The Nrf2 "Firehose" system is the most effective
- Fires that rage out of control cause oxidative stress. Oxidative stress leads to inflammation
- Oxidative stress and inflammation are at the root of disease

























Master Influencer foods can reduce the spark that ignites the fire.

At the same time, they can help extinguish fires if they get started.





Master Gene # 4 SIRT-1

• Like NrF2 and NfkB – SIRT-1 is a Master Gene.

- It influences many processes
- Think of it as sitting at the hub of many genes that influence metabolism

It helps to

Manage inflammation

Create smooth as smooth silk blood sugars. SIRT-1 helps improve the efficiency of the blood sugar master hormone: insulin

- Helps the body more effectively use and store fat
- Works closely with the CLOCK gene and your natural circadian rhythm











