Mike, this is your sport



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# 1. Introduction

#### 1. Introduction

This report is a fundamental tool for athletic activity, both amateur and professional. For example you will see your genetic propensity to, for example, suffer injuries, have a lower heart rate, and your capacity for muscle regeneration.

Your genes determine your sport profile, the metabolic and even the overall benefit of the sport for your body. Thanks to the sequencing of your DNA done by us, and its subsequent analysis, you can optimize your workouts, discovering what types of exercise your body is best prepared for and for which ones you have to take special care if you want to avoid certain injuries.

Here are the sections you will find

- Sports Performance

In this section, we tell you at out the sporting potential stored in your genetics. Your capabilities in terms of your sporting efficiency range from your power to your muscular response to strength training, including training your zerobic repacity.

- Physical Exercise and Health

Every day, when you decide to start or resume bur sports routine, you subject your muscles to different impacts. That's why knowing your genetic ask for injuries such as bone fracture becomes so essential.

- Metabolic profile

The food you eat daily is vital, but knowing how your body transforms those nutrients into energy, too. In this section of the report, we tell you, among many other things, how genetics influences your body's ability to control your glucose or cholesterol levels with energies.

- Cardiac characteristics:

Your heart is the engine of your body; it moves you and allows you to train. Given its importance, our multidisciplinary scientific team decided to dedicate a complete section to our most important organ, where you will find parameters as necessary as your genetic tendencies in terms of heart rate or the morphology of your aortic root.

Special section: Sudden Death

We dedicate a special section to this type of natural death, given its implications at a sporting/genetic level. We typically define sudden death as natural and unexpected death from cardiac arrest within one hour of the onset of collapsing symptoms. Broader definitions of premature death are also used but do not generally apply to the sporting situation.



Most causes are related to cardiovascular disease, congenital or acquired, with no symptoms observed before the fatal event. It is important to note that our tests do not sequence the entire genome but analyze 700,000 of the total 3.2 billion genetic links. Therefore, not finding any mutation does not mean that we are not carriers since the mutations may be found in the rest of our genome, which we are not analyzing.

Likewise, we do not analyze all the genetic information related to each disease. Specifically, in this section, we study on average slightly less than half of the pathogenic markers reported for pathologies or syndromes associated with sudden death in the databases consulted, so we could have mutations in the other half and not see them in this report.

The mutations we are looking for are reported in some of the most critical genetic databases worldwide, manly OMIM and ClinVar. It is important to note that if you need a diagnosis of a particular disease, genetic tests analyze the entire gene or genes involved in that disease and are valid for clinical use. Wherefore, if you have a family history, we recommend that you consult your doctor or geneticist to study the test's needs.

As usual in our reports, in the distributes you will find an iconographic summary of each of the analyzed values, which we develop more orgadly in later pages. We remind you that any changes you want to make in your diet or your heath theatheater should be guided by health professionals.

Any doubts you have about any genetic text should be checked against health personnel who are experts in Genetic Diagnosis or Specialized Chysicians.

# 1.1. Frequently Asked Questions

#### Do my genes determine everything?

Your genes are very important and determine the warning predisposition of your body, but there are many other factors that influence it: lifestyle, exercise die ... In any case, knowing yourself well, helps you to treat your body in the most appropriate way. That is what genetics gives you: information and, consequently, knowledge.

#### Can there be more features than those in my report?

Every day, new research is published worldwide that allows us to expand the knowledge we have in the field of genetics. This research is constantly analysed to incorporate it into our algorithm and improve it, with the aim of obtaining more relevant information from your DNA data. This means that your report may evolve and offer more data than you currently have, in which case we will contact you to notify you.

#### Are all sports genetic tests the same?

Not all sports genetic testings are the same. There are not too many biotech companies with the capacity to perform these complex analyses and most of them give very poor conclusions in terms of the number of results. Thanks to our test, with some 700,000 genetic markers and our complex algorithms, we can offer what we believe is to date, the most comprehensive sports



genetic study on the market. The genetic information provided by us is valid for research, information and educational purposes. Under no circumstances is it valid for clinical use.

#### What are our tests based on?

Our tests are developed based on countless genetic studies with the highest recognition and acceptance by the international scientific community. The scientific studies are published, through prestigious institutions and organisations in certain databases, as long as there is a certain level of consensus. These validated studies are used to create and update our algorithm, which is applied to our clients' genetic data.

#### If I have a low predisposition to injury, am I sure I won't get injured?

Absolutely not, not having a greater genetic predisposition is not a guarantee of not suffering injuries. These studies are normally carried out on the basis of statistical data obtained from a sufficiently large sample of profile, in which the genetic differences between people who have a certain pathology and those who do not are studied. The type of conclusion that is usually reached is that people who have a genetic alteration have a greater predisposition to suffer from a certain pathology. However, this does not mean that 100% of people with that alteration will have that pathology. Equally, it does not mean that 100% of people who do not have this alteration cannot suffer from this pathology.

Example of some studies that support our ports genetics test

- Collins M et al; The COL1A1 gene and acute soft tissue ruptures; Br J Sports Med; 2010 Jun 11.
- Posthumus M et al; Components of the transforming growth factor-beta family and the pathogenesis of human Achilles tendon pathology—a genetic association study; Rheumatology; 2010 Apr 1.
- Posthumus M et al; The COL5A1 gene is associated with increased risk of anterior cruciate ligament ruptures in female participants; Am J Sports Med; 2009 Nov;37(11):2234-40.
- Raleigh SM et al; Variants within the MMP3 gene are associated with Achilles tendinopathy: possible interaction with the COL5A1 gene; Br J Sports Med; 2009 J 11,+3(X):514-20.
- September AV et al; Variants within the COL5A1 gene are associated with Achilles tendinopathy in two populations; Br J Sports Med; 2009 May;43(5):357-65.

The information provided in this report is valid only for research, information and educational uses. It is not valid for clinical or diagnostic use.



# 2. Summary

# Sport profile



Resilience

# Resistance Response to Strength training

## Muscle Profile



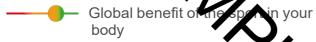
Skeletal wascle Performance

Muscle rigeneration capacity

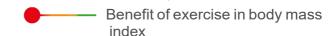


— Muscular fatigue

# **Metabolic Profile**



Benefits of Exercise in Chalestero



Sensitivity

Benefit of Exercise in Insulin



# Injury Risk

General risk of injury

Risk of overload fracture



# Cardiovascular profile

Response of blood pressure to sports

#### Caption:

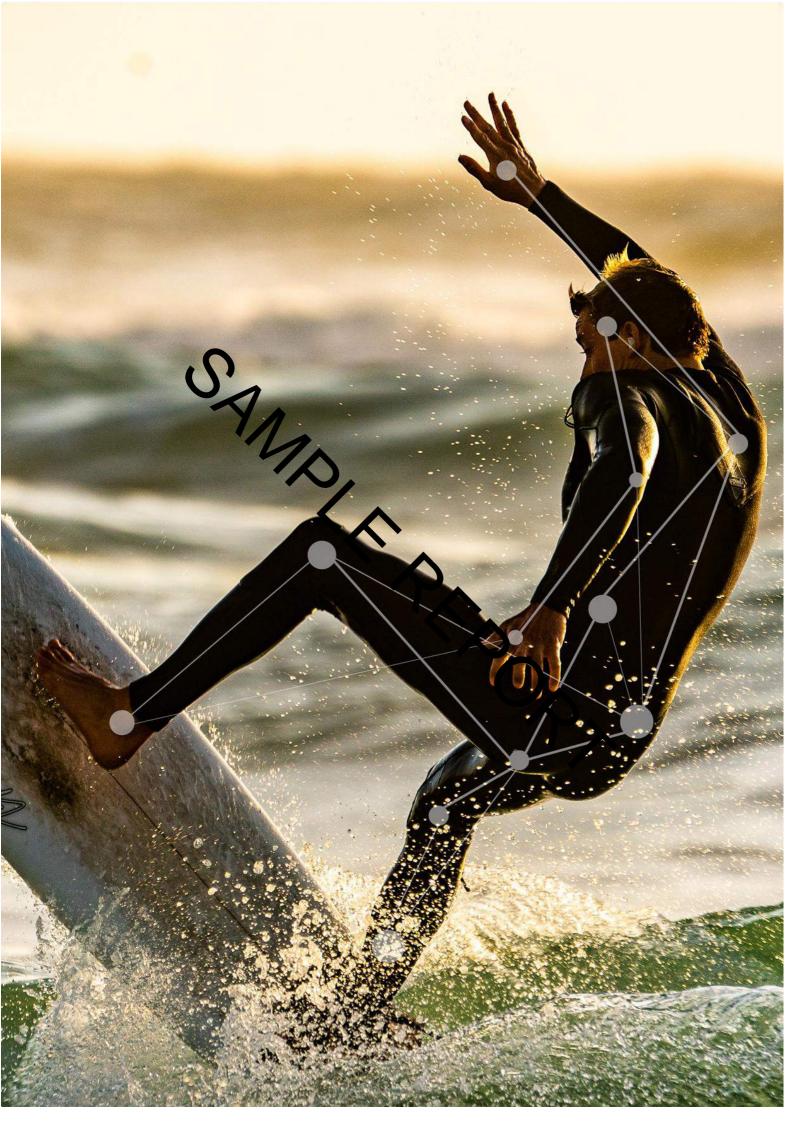
Your analyzed genotype is favorable.

Your analyzed genotype is a little favorable.

———Your analyzed genotype doesn't particularly affect you.

Your analyzed genotype is a little unfavorable.

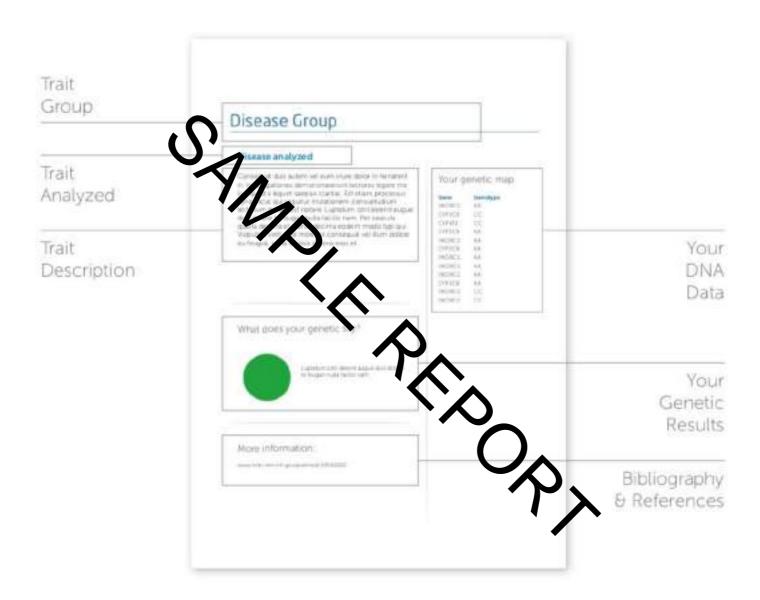
Your analyzed genotype is unfavorable.





# 3. Genetic Results

# 3.1. How to understand your report?



# 3.2. Your genetic results



## **Strength**

Muscle strength measures the maximum amount of force that can be exerted over a limited period of time. Rapid shrinkage fibres generate a relatively high amount of force over a short period of time. They are characterised by great strength, power and speed, but they fatigue faster. They are less able to obtain aerobic energy, lower oxygen levels, and higher levels of glycogen, so at first they get energy from glycolysis (anaerobic respiration) for muscle contraction.

This process is very fast, but it is also quite inefficient at producing energy; and a produces lactic acid, which favours muscular fatigue. This explains why fast-twitch fibres tire faster.

It is estimated that power is 80% wherited, depending on the specific type of muscle (isometric strength of the knee, hand strength, elbow flexion). To assess the power predisposition profile, genetic markers have been used that have been associated with power sports.

### Your genetic map

Gene	Genotype
ACE	GG
IGF2BP2	TG
NOS3	AA
PPARG	CC
AGT	GG
PPARA	CG
VEGFA	GG
VDR	AA
PPARGC1A	CC
HIF1A	CC

# What do your genetics tell us?

Your propensity to develop strength is moderate.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2658665/



#### Resistance

Resistance training is defined as a low-intensity activity performed over a long period of time. Muscle endurance measures your ability to sustain an activity for a time period without feeling tired.

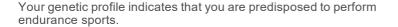
If your muscular structure favours endurance, you have the potential to thrive at sports that depend on this ability. The intrinsic ability to perform resistance exercise is influenced by several First, resistance depends on the twitch fibres of skeletal muscle. These proportion of are also known a fibres because they contain more myoglobin, a protein t res oxygen, and they have their own energy source, can maintain their strength longer. Second, it has been ed that the top athletes usually have what have been called rathon genes".

Studies have identified genetic variants associated with a high proportion of these fibres and a ligh supply of oxygen to muscle tissue.

### Your genetic map

Gene	Genotype
PPARGC1A	CC
ACE	GG
NFIA AS2	GG
HIF1A	CC

# What do your genetics tell us?



#### More information:



# **Aerobic capacity**

Maximum aerobic capacity (or maximum volume of oxygen, VO2max) is the maximum volume of oxygen a athlete's muscles can use for one minute to produce maximum physical effort. This measure reflects the person's aerobic physical condition and determines their power during prolonged exercise. The benefits of having good aerobic fitness are low pressure, low cholesterol, and reduced risk of obesity, type-2 diabetes and cardiovascular disease. VO2max min, but is more commonly expressed in is measured in order to equitably compare athletes mL of O2/kg/ whose body mass different. Absolute VO2max figures are usually 40-60% hig men than in women.

Beginning at age 30 lung capacity begins to decline, and at age 50 may be half of what it was. This decrease means that less oxygen enters our cells, leading to reduced respiration and endurance, and increased susceptionary to respiratory diseases with age. Numerous genetic variants have been associated with aerobic capacity.

### Your genetic map

Gene	Genotype
NFIA AS2	GG
RGS18	GG
ACSL1	GG

# What do your genetics tell us?



Your genotype does not tend to endow you with an enhanced lung capacity, but you can improve it, so your muscles can convert oxygen into energy more efficiently. Perform intense exercise, increasing your heart rate to 70-85%.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4314597/



## Response to Strength training

With regards to physical condition, we will define strength as the capacity to overcome resistance through the contraction produced by muscles; that is, their capacity to perform a physical task.

The quality of strength is determined by the muscular structure itself: it depends on the orientation and types of muscle fibres, the length of the muscle, and temperature: muscle contraction is more rapid and potent when the ature is slightly higher than normal; and by internal tempe the osteoarticular m: strength depends on the type of lever that makes the m ent; and, finally, age and gender. Training is another imp tor because it improves the factors that impact muscula th: metabolism and fuel deposits that increase muscle fib niskness, the number of myofibrils, and a delay in the appearance of muscle fatigue.

In addition, genetic factors have keen associated with greater benefits in the form of increased strangth after training.

### Your genetic map

Gene Genotype
INSIG2 GG

# What do your genetics tell us?



Strength training is less beneficial for people with your genotype, as you are likely to gain fat mass. Moderate training is recommended.

#### More information:



#### Resilience

Prolonged exercise involves muscle lengthening and may result in structural muscle disruption, deterioration of the excitation-contraction process, inflammation, and the breakdown of muscle proteins.

This process is known as exercise-induced muscle damage, and although a certain amount of muscle damage is required for adaptation to occur, excessive damage or inadequate recovery from muscle damage may increase the risk of injury.

After performing physical exercise, some people recover quickly and are ready to make a physical effort again after a brief rest. Other people do not recover as quickly, and need more rest time. Research has been that certain genetic variants are associated with slover recovery after hard exercise. People with these marken should take special care with their training plan.

### Your genetic map

Gene	Genotype
IL6	CC
CRP	CC
SOD2	GG

# What do your genetics tell us?



Your genotype is associated with high levels of inflammation and low levels of antioxidants, which predisposes you to slower recovery after exercise.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4983298/



# Muscular strength

Muscle strength is the amount of force a muscle can exert in a single contraction. Muscles have two types of fibres: fast and slow. Fast-twitch fibres provide explosive energy; to lift weights, or run fast, for example. Slow-twitch fibres are for more endurance-related exercises.

Developing fast-twitch fibres requires aerobic activity, whereas for the development of slow-twitch fibres anaerobic exercise is required, to gain strength. Muscle strength is describined by fast fibres, which provide rapid explosions of energy

Studies with relatives have down that up to 90% of the variation in muscle mass, and up to 60% of variation in muscle strength, are heritable. Good variations have been associated with muscle strength.

## Your genetic map

Gene	Genotype
HFE	CC
IGF1	GG
HIF1A	CC
GDF8	TT
IGF1	TC
SLC30A8	TC
CCL2	AA

# What do your genetics tell us?



You do not enjoy an extra benefit in terms of a tendency to greater strength and muscle mass.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4696732/



## Muscle response to resistance training

Workouts featuring resistance training are recommended at least two days a week. Systematic, long-term resistance training increases skeletal muscle size and strength in men and women of different ages, as well as the aerobic capacity of fast-twitch fibres.

There are studies that show that almost all people benefit from endurance exercises, although gains in muscle size and strength are highly variable amongst individuals, and depend on gender, age, general health, nutrition and personal genetics.

Several studies have reported association between certain genetic variations and murcle size and strength. Some people gain more strength and resche size in response to the same training as others.

### Your genetic map

Gene	Genotype
BMP2	CC
IL15RA	TT
INSIG2	GG

What do your genetics tell us?

Your genotype indicates that you are prone to easily increasing your muscle through resistance-based exercise.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4147943/



#### **Skeletal Muscle Performance**

Muscles such as biceps, pectorals and quadriceps are skeletal muscles that are attached to the skeleton to generate movement. Skeletal muscle is composed of elongated, thin cells, which include all the organelles necessary for cellular functions. More than 90% of the total volume of skeletal muscle cells is composed of muscle proteins, including actin and myosin contractile proteins.

When a musq is activated by a nerve impulse, the interaction ctin and myosin generates a contraction. The t rce depends on the sum of all the nultaneously in a muscle cell. contractions that occ Skeletal muscle is one ree main types of muscles, oth muscle. The UCP2 the others being the heart and UCP3 proteins can negative regulate mitochondrial ATP synthesis (energy that muscles use), thereby influencing physical performance. One study has ound that genetic variants in these genes are associated with improved skeletal muscle performance through training.

### Your genetic map

Gene Genotype

UCP2 TT

# What do your genetics tell us?

You present an increase in the efficiency of muscle contraction through training.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3330832/



# Muscular fatigue

Muscle fatigue occurs when muscles cannot exert normal strength, or when it takes more effort than normal to achieve a desired level of strength. Late-onset muscle pain describes a phenomenon of muscle pain or stiffness that is felt 12-48 h after exercise, particularly when starting a new training program, after a change in sports activity, or after a considerable increase in the duration or intensity of exercise.

The proteins of an injured muscle are released into the blood. A higher concentration of these proteins means greater damage to muscle fibres and a greater likelihood of muscle fatigue.

In addition to exercise, geneals condition is another cause of muscle fatigue. There are studies that relate certain genetic variants with enhanced resistance to muscular fatigue.

## Your genetic map

Gene	Genotype
HNF4A	GG
NAT2	AA

# What do your genetics tell us?



#### More information:



# Muscle regeneration capacity

Muscles are important for exercise and, after it, need between 24 and 48 hours to repair and rebuild. Making them work again too soon simply leads to tissue breakdown.

Are you one of those people who needs a lot of time to recover after muscle damage? Prolonged and tiring exercise, such as high-intensity training, activates inflammatory factors. Genetic variations in several genes improve the inflammatory response that allows for the slow repair of muscle damage after exercise.

A person with a high redisposition to inflammation will benefit from less frequent percise and longer recovery periods. If the body is not fully recovered, it can suffer damage due to overexertion and excessive training. This is particularly important for high-intensity athletes and bodybuilders.

## Your genetic map

**Gene Genotype** IL1B AG

# What do your genetics tell us?

Your muscles recover more easily, according to your genetic results.

#### More information:

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1665272/



# Global benefit of the sport in your body

The benefits of exercise and regular physical activity are well known, and all people, regardless of age, sex or physical ability can notice its benefits. Exercise can prevent weight gain and help prevent many health problems, such as heart attacks, metabolic syndrome, type-2 diabetes, depression, various cancers, and arthritis.

Exercise releases exygen and nutrients to tissues and helps the cardiovascular system work more efficiently. When the heart and lungs are healthier, the body has more energy.

Some people experience the benefits of exercise more quickly than others, but may use require dietary changes. People with certain genetic variants experience rapid results, such as lower cholesterol, trigger and blood pressure.

### Your genetic map

Gene	Genotype
CETP	CC
BDNF	TC

# What do your genetics tell us?

Based on your genotype, to note the benefits of regular exercise you should also make changes in your diet.

#### More information:



# **Benefit of Exercise in Insulin Sensitivity**

Insulin helps control changes in glucose levels (commonly known as sugar) in the body. Insulin sensitivity refers to the body's ability to respond to these changes.

Having a greater sensitivity to insulin means that the body is better able to process glucose. Insulin resistance, on the other hand, is an alteration that impedes the proper regulation of glucose, and is associated with obesity and type-2 diabetes. Vally people can benefit from exercise to increase insulin sensitivity.

According to one study, resple with the beneficial genotype in a marker of the LIFC gene benefit more in the form of increased insulin sensitivity

### Your genetic map

Gene Genotype
LIPC CC

# What do your genetics tell us?

You enjoy increased benefits from exercise in the form of better insulin sensitivity. This is especially important if you are diabetic, are overweight, or have a metabolic syndrome.

#### More information:



#### **Benefits of Exercise in Cholesterol**

One of the benefits of exercise is improved cholesterol levels. HDL cholesterol is known as good cholesterol, and having high levels of HDL is beneficial. Many people can improve their HDL levels through exercise.

Research has shown that exercise stimulates enzymes that help move bad cholesterol from the blood to the liver, allowing it to be excreted with bile. It has also been stipulated that exercise increases the size of protein particles that carry chalesterol through the blood, reducing the possibility that small particles clog arteries.

Individuals with certain demonstrate variants will do well to increase their good cholester of Levels while exercising, while carriers of other genetic variants are less likely to lower their bad cholesterol levels through exercise alone.

## Your genetic map

Gene	Genotype
CETP	CC
PPARD	TT

# What do your genetics tell us?



Your genotype is not associated with a greater capacity to regulate your cholesterol levels through exercise.

#### More information:



# Benefit of exercise in body mass index

Exercise is part of weight loss plans, and is a crucial tool for maintaining a healthy weight. Physical activity is beneficial for all people, regardless of their genetics, but exercise is especially recommended for people at increased risk of being overweight.

People with a certain variant in the genetic marker of the FTO gene are more likely to be overweight, have an increased Body M ss Index, and waist circumference. However, a large-scale study has shown that genetic susceptibility to obesity-induced variants in the FTO gene can be changed by adopting an active lifestyle.

In fact, people who are more susceptible to obesity experience greater weight less by exercising at moderate intensities.

### Your genetic map

Gene	Genotype
FTO	GG
FTO	AC

# What do your genetics tell us?



Your genotype is not associated with easier weight loss through exercise.

#### More information:



## **Metabolic efficiency**

Metabolism refers to the chemical processes that the body undergoes to convert food into energy, and a concept related to the way in which each body uses nutrients.

Physical fitness is a very complex phenotype, influenced by numerous genetic and environmental factors that contribute to inter-individual variation. Sports genomics studies the genetic components that determine sports performance.

Variations in various games play an important role in how bodies respond to different types of physical activity, as these genes have a physiological impact on sports performance. Some genes stalysed are involved in the metabolism of fatty acids whose expression can improve the oxidative capacity of skeletar needs during exercise; i.e. different variants result in a more oxiess efficient acquisition of energy from fatty acids and other nutrients.

### Your genetic map

Gene	Genotype
AMPD1	GG
PPARA	CG
ADRB2	GG
PPARD	TT
PPARGC1A	CC

# What do your genetics tell us?



You are predisposed to exhibit lower metabolic efficiency, associated with diminished athletic performance.

#### More information:



# **General risk of injury**

Exercise has numerous health benefits, but we must be careful to avoid injuries that occur when we perform exercises incorrectly. Although injury is always a risk when we engage in any exercise, some people are more likely to injure themselves than others, in part due to their genetics.

Scientific evidence has shown that certain genetic variations can affect vulnerability to injury. People at increased risk should adjust their training plans.

The genetic risk of highly is calculated taking into account variations in the genes radited to general inflammation, as when suffering from soft its an injuries, inflammation levels may affect recovery. This inframation allows you to get recommendations about which exercises to do and which to avoid.

### Your genetic map

Gene	Genotype
GDF5	AA
COL1A1	CC
IL6	CC
CRP	CC

# What do your genetics tell us?



You are at a high risk of injury to your tendons, ligaments and muscles.

#### More information:



# Risk of injury to joints

Many sports-related injuries involve joint damage. The most common are wrist or ankle sprains, excessive elbow extension, and damage to the knee ligaments.

When exercising you are at higher risk of injury from the excessive use of joints, but you can strengthen and avoid injury by doing the exercise correctly, and stretching. Risk of joint damage is associated with an increased genetic predisposition to estimate our predisposition to estimate the exercise correctly.

Knowing personal as it important to adjust the duration and intensity of one's training ressions. Sports and high-impact activities can lead to cardiago injuries and damage to the joints. Your risk of injury is calculated based on genetic variations that are associated with pirit problems.

## Your genetic map

Gene	Genotype
GNL3	AG
FTO	TT
SUPT3H	AA
IL1A	GG

# What do your genetics tell us?

You are not prone to joint injuries.

#### More information:



#### Risk of overload fracture

Overload fractures are small cracks in the bone caused by repetitive force or repetitive movements, such as running long distances or jumping repeatedly. They can also be caused by normal use of a weakened bone.

Anyone can suffer an overload fracture, but some people have a greater predisposition, which is associated with lower bone density. Overload fractured are a common injury in athletes, and alled up to 20% of athletes, particularly women. The hair factor affecting one's risk to overload fractures is bone density, which has a genetic component (up to 85% of the variability is explained by genetic variations).

Using information from various greatic variants, the risk of overload fractures is estimated. Some variations increase risk while playing a protective role.

### Your genetic map

Gene	Genotype
FUBP3	AG
RIN3	CC
C17ORF53	AA
MEPE	GG
ZBTB40	GG

# What do your genetics tell us?



Your predisposition to suffering stress fractures is very great.

#### More information:



# Risk of ruptured tendons and ligaments

Ligaments are designed to stabilise the joints. Strong tendons and ligaments minimise injuries, although overuse induces changes that make them vulnerable.

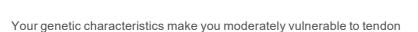
Anterior Cruciate Ligament (ACL) tears are one of the most severe injuries, and are very common among high-intensity athletes whose sports call for sudden deceleration, jumping, and advancing while the knee is flexed. ACL injuries usually occur along with damage to other structures of the knee, such as articular cartilage, the meniscus, or other ligaments. Achilles tendon injuries meanwhile, are a major obstacle to any athlete's performance they affect athletes in a wide variety of sports (up to 20% a runners) and can often take months to heal.

Individuals with favourable genetic variations may have stronger ligaments and tendons than the general population, decreasing their risk of injury. Knowing your genetic susceptibility to specific injuries will help you customise your exercise and choose prevention strategies.

## Your genetic map

Gene	Genotype
COL1A1	CC
MMP3	TC
GDF5	AA
COL12A1	TT

# What do your genetics tell us?



#### More information:

and ligament injuries.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5432363/



# Cardiovascular profile

## Response of blood pressure to sports

High blood pressure, known as hypertension, is a common health issue. It is estimated that most people will have hypertension at some point in their lives.

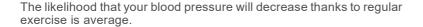
Exercise has been shown to lower blood pressure. In fact, aerobic training is generally recommended as a therapy to prevent, treat, and control hypertension. An hour and a half of low-intensity aerobic exercise per week helps to lower blood pressure. There is great variability in the interindividual response to the antihypertensive effects of exercise, and much of mis variation is explained by genetic predisposition.

People more prone to controlling their hypertension see their blood pressure drop more glickly than the average person. For these people the benefits of 30 minutes of exercise a day are more noticeable than for the general population.

### Your genetic map

Gene	Genotype
EDN1	GG
NOS3	AG
GNAS	TT
ADD1	GG

# What do your genetics tell us?



#### More information: