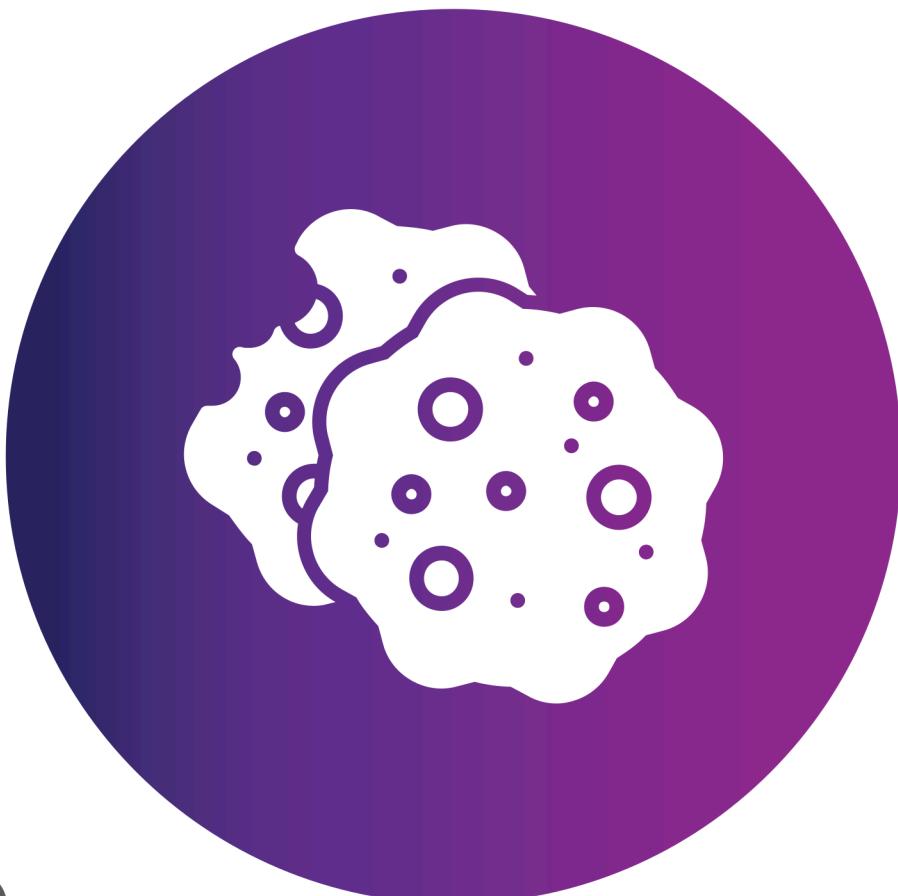




Pathway Diagnostic
Laboratories

CANCER GENOMICS TESTING

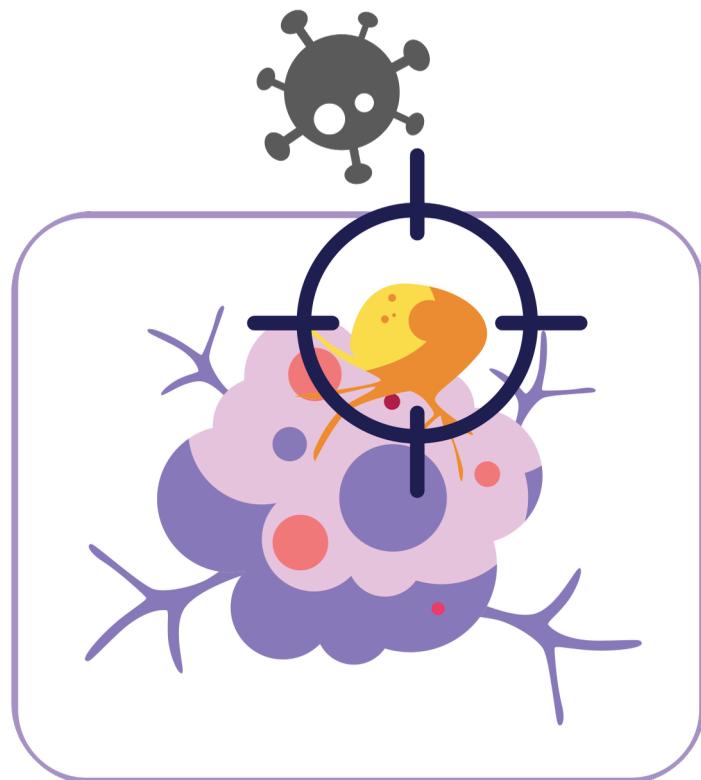


PATHWAY DIAGNOSTICS LABORATORIES

CANCER GENOMICS TESTING

Understanding Your Tumor at the Molecular Level

Cancer is a complex disease that affects millions of people around the world. Despite advances in treatment, cancer remains a significant public health challenge. However, recent breakthroughs in cancer genomics have given us a new way to understand tumors at the molecular level. Cancer genomics testing is a cutting-edge diagnostic tool that helps doctors personalize treatment plans for their patients.



What is **CANCER GENOMICS TESTING?**

Cancer genomics testing is a type of diagnostic testing that uses advanced genetic sequencing technology to identify the specific genetic mutations that drive cancer growth. This testing is performed on a sample of the patient's tumor tissue, and it can provide valuable information about the genetic characteristics of the cancer.

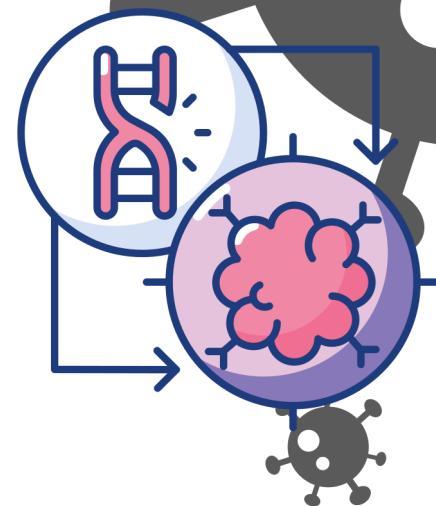
How is **CANCER GENOMICS TESTING** Performed?

At Pathway Diagnostics Laboratories, cancer genomics testing involves the sequencing of DNA from the patient's saliva. The DNA is then analyzed to identify any genetic mutations that may be present. These mutations are compared to a database of known cancer-related mutations to determine which mutations are driving the cancer growth. This information can then be used to guide treatment decisions and to identify family members who may be at risk for developing cancer.

Benefits of **CANCER GENOMICS TESTING**

Cancer genomics testing has many benefits, including:

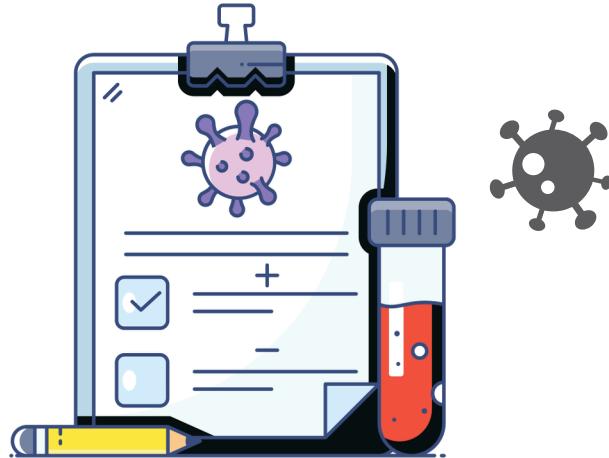
- Improved accuracy in diagnosis and treatment planning
- Identification of potential targeted therapies based on the specific genetic mutations present in the tumor
- Identification of family members who may be at risk for developing cancer
- Improved outcomes for patients by tailoring treatment to the individual genetic characteristics of their cancer



Why Should You Consider **CANCER GENOMICS TESTING?**

Cancer genomics testing is an important tool that can help patients and doctors make more informed decisions about cancer treatment. By understanding the specific genetic mutations that are driving the growth of a tumor, doctors can tailor treatment plans to each individual patient.

This can lead to better outcomes, fewer side effects, and a higher quality of life for cancer patients.



Cancer genomics testing is a powerful tool that can provide important information about the genetic characteristics of a patient's cancer. This information can be used to guide treatment decisions and to identify family members who may be at risk for developing cancer.

If you have been diagnosed with cancer or if you have a family history of cancer, talk to your doctor to see if cancer genomics testing may be right for you.

How does **PATHWAY DIAGNOSTICS LABORATORIES** make a difference in **GENETIC TESTING?**

ACCURACY AND RELIABILITY:

Pathway Diagnostics Laboratories utilizes state-of-the-art technology and a team of highly trained experts to ensure the accuracy and reliability of their tests. This is crucial when it comes to cancer genomics testing, as the results can have a significant impact on a patient's diagnosis and treatment plan.

QUICK TURNAROUND TIME:

Pathway Diagnostics Laboratories prides itself on its fast turnaround time for test results. This means that doctors can receive the information they need to make treatment decisions quickly, which can be especially important in cases where time is of the essence.

EXCELLENT CUSTOMER SERVICE:

Pathway Diagnostics Laboratories has a reputation for providing excellent customer service. Their team is available to answer questions and provide support throughout the testing process, which can be reassuring for both doctors and patients.

PERSONALIZED TREATMENT OPTIONS:

With the information provided by Pathway Diagnostics Laboratories cancer genomics testing, doctors can develop personalized treatment plans for their patients. This can lead to better outcomes and improved quality of life for cancer patients.

Types of **CANCERS** can be identified:

- **Breast Cancer**
- **Melanoma (Skin Cancer)**
- **Ovarian Cancer**
- **Prostate Cancer**
- **Pancreatic Cancer**
- **Colorectal Cancer**
- **Stomach Cancer**
- **Lung Cancer**
- **Bladder Cancer**
- **Lynch Syndrome**

Gene panel for **HEREDITARY CANCER GENOMICS** **TESTING** Risk (38 - Gene Panel)

BRCA1, BRCA2, PTEN, ATM, APC, PMS2, PALB2, TP53, CDK4, MSH6, MUTYH, BMPR1A, POLE, GJB2, GJB6, BLM, FBN1, GREM1, CDH1, RAD51D, COL1A1, BRIP1, NFI, RAD51C, SMAD4, STK11, POLD1, EPCAM, MSH2, BARD1, CHEK2, CHEK2, MITF, BAP1, KIT, TERT, NBN, CDKN2A

TEST SPECIFICATIONS

Acceptable sample requirements
Buccal Swab or Saliva

Turnaround time - 2-3 weeks
Coverage $>96\%$ at 20x

Reporting
Likelypathogenic and Pathogenic variants

Customization
Customizable Gene List



Genetic testing plays a significant role in cancer society, as it can provide important information about an individual's risk for developing certain types of cancer. The testing can identify specific genetic mutations that are associated with an increased risk of developing certain cancers, such as breast cancer or colon cancer.

If a person is found to have a genetic mutation that increases their risk for cancer, they can take steps to reduce their risk through increased surveillance, lifestyle changes, or preventative measures such as prophylactic surgery. In addition, their family members may also be at risk for the same genetic mutation and can undergo testing and take preventative measures as well.



Genetic testing can also help guide treatment decisions for individuals who have been diagnosed with cancer. For example, certain genetic mutations can influence the effectiveness of certain cancer treatments or increase the risk of recurrence. By identifying these mutations, doctors can personalize treatment plans and improve outcomes for patients.

However, genetic testing also has ethical, legal, and social implications that need to be carefully considered. For example, some people may experience anxiety or depression if they receive news that they are at increased risk for cancer, and there is a risk of discrimination in insurance or employment based on genetic test results.

Overall, genetic testing has the potential to greatly benefit individuals and their families in the prevention, diagnosis, and treatment of cancer, but it should be used in a responsible and informed manner, with proper counseling and support.



UNLOCKING THE SECRETS OF YOUR GENETIC HEALTH COMPREHENSIVE GENETIC TESTING AT **PATHWAY DIAGNOSTICS LABORATORIES**

**PATHWAY DIAGNOSTICS LABORATORIES MAY BE A GOOD CHOICE
FOR GENETIC TESTING FOR SEVERAL REASONS:**

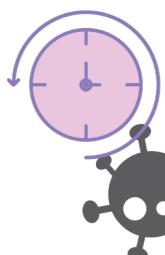


HIGH-QUALITY TESTING

Pathway Diagnostics Laboratories uses advanced technology and have experienced technicians to ensure that the testing is performed to the highest standards



FAST TURNAROUND TIME



Pathway Diagnostics Laboratories has a fast turn around time for test results. This means that doctors can quickly get the information they need to make informed decisions about their patients' treatment.



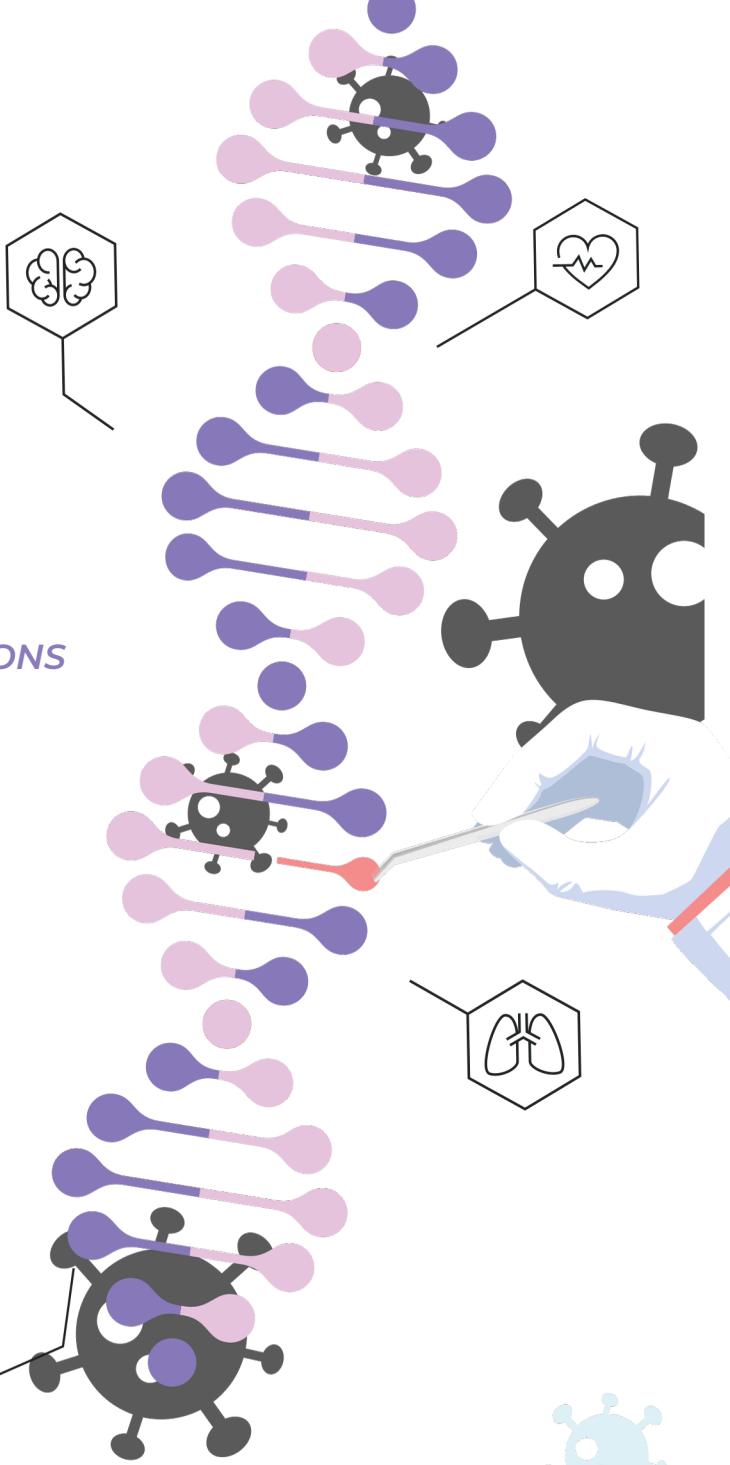
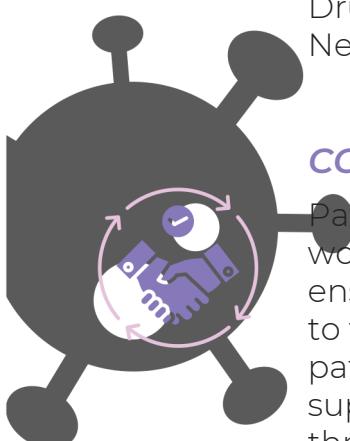
COMPREHENSIVE TESTING OPTIONS



We offer a wide range of genetic testing options, including tests for Diabetes predict, Cancer genetics, Cardiovascular, Drug-Gene Interactions and Neurological

COLLABORATIVE APPROACH

Pathway Diagnostics Laboratories works closely with doctors to ensure that the testing is tailored to the specific needs of each patient. They provide personalized support and guidance throughout the testing process.



DECODING THE MYSTERY OF GENETIC TESTING: A PATIENT'S ROADMAP TO BETTER HEALTH

Genetic testing is a medical test that examines your DNA to identify any changes or mutations that may be associated with a specific disease or condition. This guide aims to provide you with an overview of genetic testing, its significance, testing outcomes, and how it could be beneficial to you and your family members.

WHAT IS **GENETIC TESTING?**

DNA is the genetic material that contains the instructions for the development, growth, and function of all living organisms. Genetic testing can provide information about inherited diseases or conditions, predispositions to certain diseases, and the likelihood of passing these conditions onto your children.

WHY IS **GENETIC TESTING SIGNIFICANT?**

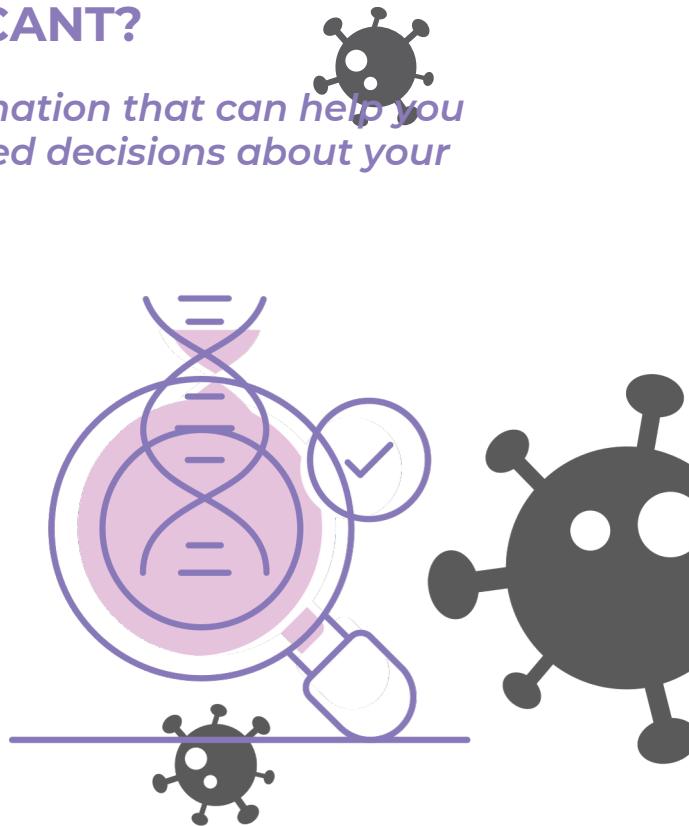
Genetic testing can provide valuable information that can help you and your healthcare provider make informed decisions about your health. It can help to:

DIAGNOSE GENETIC DISEASES:

Genetic testing can identify changes or mutations in genes that are associated with specific diseases or conditions. This information can help healthcare providers diagnose genetic diseases and develop appropriate treatment plans.

INFORM REPRODUCTIVE DECISIONS:

Genetic testing can help individuals and couples make informed decisions about family planning. If a genetic mutation is identified, it can be used to determine the likelihood of passing the condition onto future children.



DETERMINE THE RISK OF DEVELOPING A DISEASE:

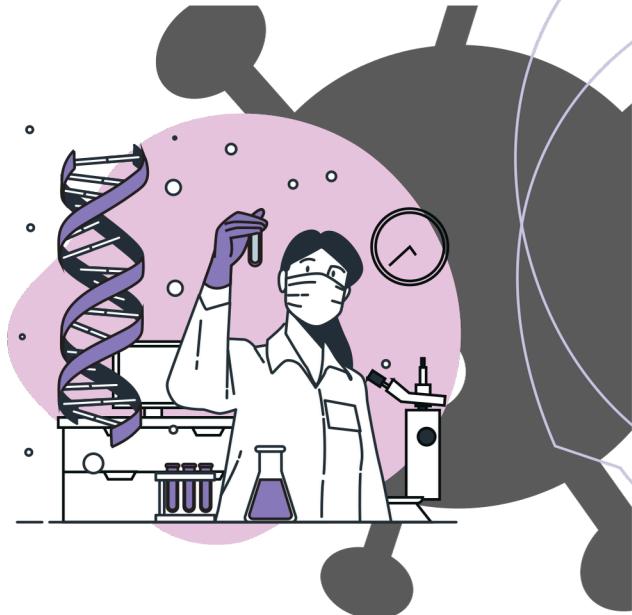
Some genetic mutations are associated with an increased risk of developing certain diseases or conditions. Genetic testing can help identify these mutations, allowing for early intervention or prevention.

PERSONALIZE TREATMENT PLANS:

Genetic testing can provide information about how an individual may respond to certain medications or treatments. This information can help healthcare providers personalize treatment plans for better outcomes.

TESTING OUTCOMES

The results of genetic testing can be positive, negative, or uncertain. A positive result indicates that a genetic mutation associated with a specific disease or condition was identified. A negative result means that no mutations were identified. An uncertain result means that the test did not provide a definitive answer and further testing may be necessary.

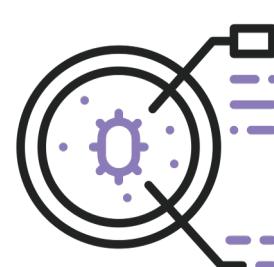
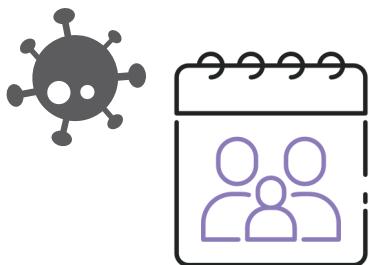


HOW CAN GENETIC TESTING BE BENEFICIAL TO YOU AND YOUR FAMILY MEMBERS?

Genetic testing can be beneficial to you and your family members in several ways, including:

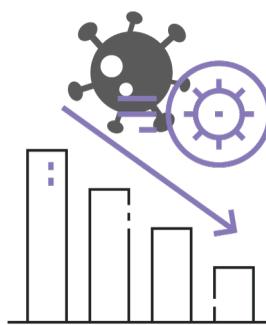
EARLY DETECTION AND TREATMENT:

Genetic testing can help identify conditions at an early stage, allowing for earlier treatment and better outcomes.



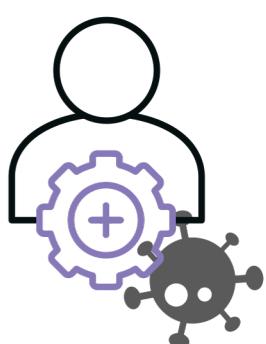
FAMILY PLANNING:

Genetic testing can help individuals and couples make informed decisions about family planning, such as whether to have children or how to manage the risk of passing on a genetic condition.



RISK REDUCTION:

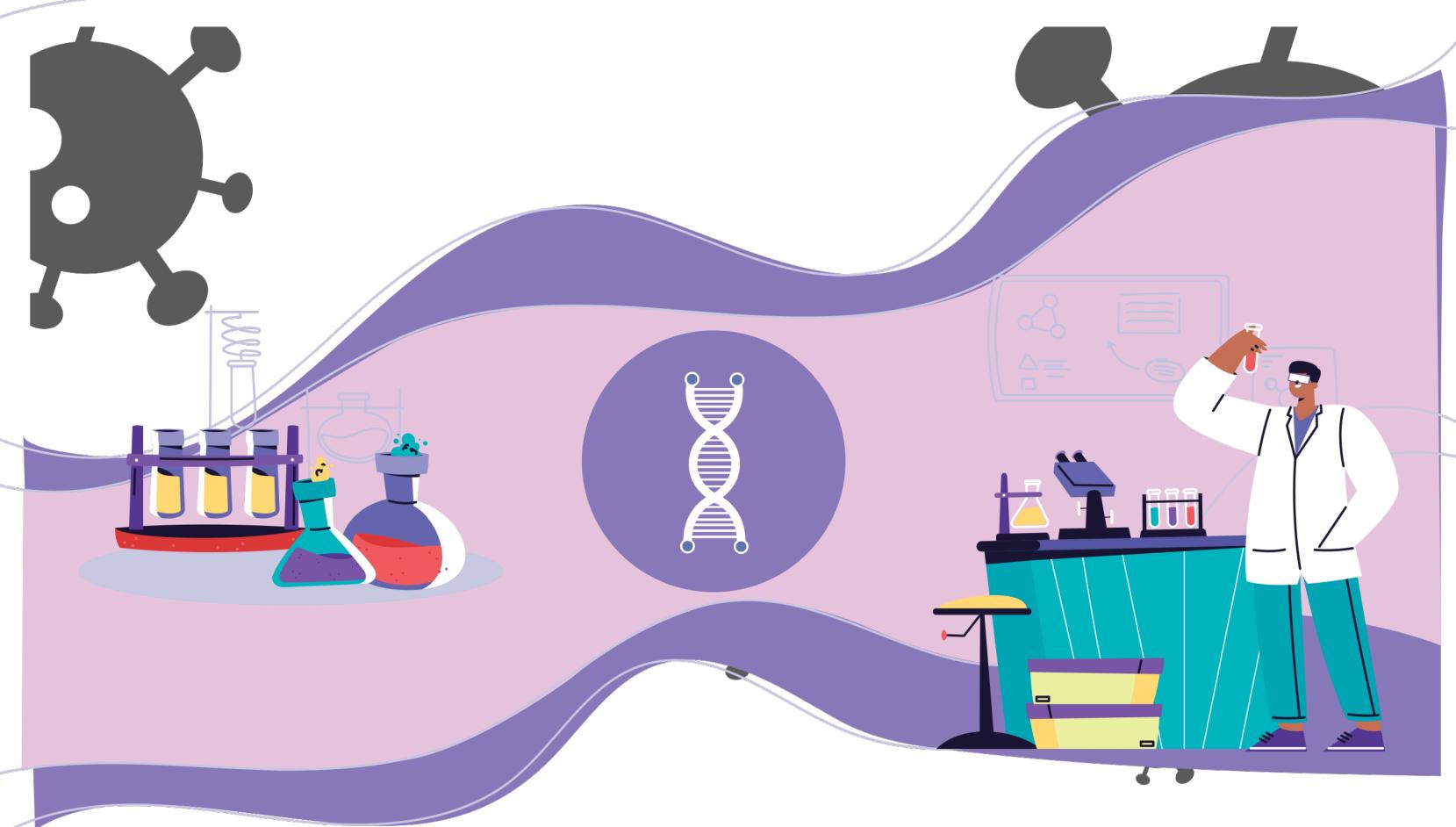
Genetic testing can help identify individuals at increased risk for certain diseases or conditions, allowing for early intervention and lifestyle changes to reduce the risk.



PERSONALIZED TREATMENT:

Genetic testing can provide information about how an individual may respond to certain medications or treatments, allowing for personalized treatment plans for better outcomes.





IF YOU ARE CONSIDERING GENETIC TESTING, IT IS IMPORTANT TO CHECK WITH YOUR HEALTH INSURANCE PROVIDER TO DETERMINE YOUR COVERAGE.

YOU CAN DO THIS BY:

REVIEWING YOUR INSURANCE POLICY:

Check your insurance policy or contact your insurance provider to see if genetic testing is covered and under what circumstances.

CONSULTING WITH YOUR HEALTHCARE PROVIDER:

Talk to your healthcare provider about whether genetic testing is medically necessary and covered by your insurance.

SEEKING PRIOR AUTHORIZATION:

Some insurance plans may require prior authorization for genetic testing, which means your healthcare provider will need to submit a request to your insurance provider for approval.