



**CANCER  
GENOMICS**

**AEON**  
GLOBAL HEALTH

Know better. Live better.

# CANCER GENOMICS

## Genetic Testing for Hereditary Cancer

Recent studies have revolutionized our understanding of the genomic underpinnings of cancer development and progression. This knowledge has led to new methods of diagnosing and treating cancer. Emerging clinical applications of cancer genomics include monitoring treatment responses and indicating ways of resistance. With advancement in DNA analysis, the scope of genetic testing has widened in different areas, mainly in pharmacogenomics, predictive testing, and prenatal testing. Genetic testing also enhances the early detection of breast cancer.

### CGX Advantage<sup>®</sup>

At AEON, we are committed to providing physicians with genomic insights and understanding that will assist in the prevention, early detection, and personalized treatment of a broad variety of cancers. Our cancer genomics testing - CGX Advantage Profile - is designed to provide physicians with clinically actionable information based on the individual genomic profile of each patient. Our test analyzes mutations in a patient's DNA known to be associated with an increased risk of hereditary cancer.

We understand that as physicians, you must continually seek out ways to enhance the care you provide to each of your patients. Our Cancer Genomics tests provide information that will enhance your ability to offer personalized care and therapy based on each patient's specific genomic mutation and associated cancer.



**Genomic testing is  
the future of  
cancer treatment**

# Who can Benefit from Cancer Genomics Testing?

Cancer Genomics testing is appropriate for patients who have a personal or familial history of cancer. Physicians most often offer this testing to:

- An individual with more than one cancer
- An individual who has multiple close family members with a cancer diagnosis under the age of 50
- An individual with three or more close family members with different types of cancer
- An individual with family members who have taken cancer genetic tests and mutations were identified

## Why AEON?



### Wide Range of Panels

We offer cancer risk panels for a variety of inherited conditions including breast, pancreatic, renal and others. Currently, AEON offers an analysis of 37 genes covering 18 different cancers.



### Use of Latest Technology

At AEON, the use of latest next generation sequencing (NGS) technology helps analyze patient samples in a rapid and accurate manner. Specimens can be processed utilizing either saliva or cheek swab samples. We also work with healthcare providers to ensure that medical necessity is met before specimen is processed, which reduces unnecessary testing. Our fully equipped, next generation laboratories are able to handle high volumes of testing from physician customers in every region of the country.



### Effective Quality Controls

To ensure accuracy and speed, we employ robotic testing systems for precision: each step is automated to avoid human error. This approach enables AEON to provide fast and reliable turnaround times. At AEON, every test result is reviewed at least twice while the final report is reviewed by a senior scientist before being released. We offer double the industry standards for quality control measures with 20x read depth.



### Highly Trained Scientists

Our experienced management team and Ph.D. scientists position us well to achieve better results and improved performance. All patient samples are handled with the greatest care by highly trained genetic scientists in our state-of-the-art facility. The scientists are also available for in-depth consultations. AEON also has a strong, internationally renowned, cross-functional scientific advisory board that positions us as a leading player in scientific innovation in the areas of clinical diagnostics and healthcare technology.



### Easily Interpreted and Clinically Actionable Reports

Our testing reports are comprehensive and easy-to-understand; in each testing protocol the outcomes are produced in simple formats delivered via a secured portal, fax or EMR. AEON also provides professional assistance in the interpretation of results; trained genetic scientists are on-hand to help physicians understand the results and integrate them into a patient's overall treatment plan.



### Exceptional Customer Service

We know that our work impacts the lives of people. We focus on providing exceptional customer service by providing our partner healthcare professionals with customized service plans to maximize the effective delivery of care for patients.

# The Testing Process



## Cancer Detect Profile Chart

Cancers/ Genes	Breast	Colorectal	Central Nervous System	Thyroid	Liver	Pancreatic	Prostate	Ovarian	Stomach	Gastric	Melanoma	Kidney	Leiomyomas	Pheochrom- ocytoma	Brain	Leukemia	Duodenal	Uterine
APC		●	●	●	●	●			●						●		●	
ATM	●					●												
NBN	●							●										
BRCA1	●						●	●										
BRCA2	●					●	●	●										
BRIP1	●					●	●	●			●							
RAD51C	●							●										
RAD51D	●							●										
BMPRI1A		●							●									
SMAD4		●							●									
CDH1	●	●							●	●								
CDK4									●		●							
CDKN2											●							
ACHEK2	●	●																
FH												●	●					
FLCN												●						
MAX														●				
MLH1		●			●	●		●	●					●	●			●
MSH2		●			●	●		●	●					●	●			●
MSH6		●			●	●		●	●					●	●			●
PMS2		●			●	●		●	●					●	●			●
EPCAM		●			●	●		●	●					●	●			●
MUTYH	●	●																
NF1	●		●											●		●		
PALB2	●					●												
PTEN	●	●		●							●	●						●
RET				●										●				
SDHAF2														●				
SDHB												●		●				
SDHC												●		●				
SDHD												●		●				
TSC1			●		●							●						
TSC2			●		●							●						
STK11	●	●				●		●	●									●
TMEM127														●				
TP53	●		●			●								●	●			●
VHL			●			●						●		●				