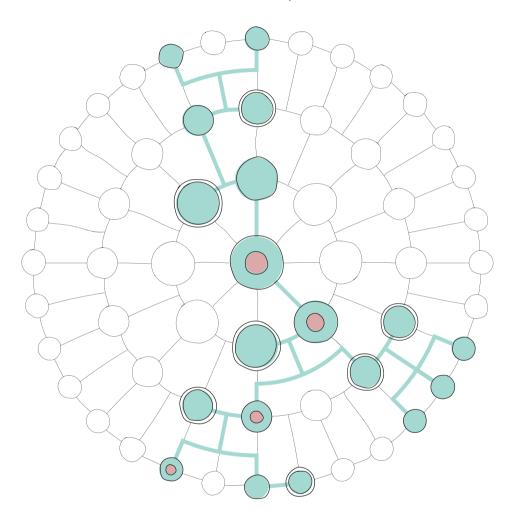


Physician's booklet



Shaping Science Improving Lives











About Heredi GENIE®

The HerediGENE® test is a certified (CE-IVD) diagnostic test that analyzes 83 genes (including *BRCA1 & BRCA2*) which are involved in cancer susceptibility, 17 of which are related to the Homologous Recombination (HR). The content of the analysis covers the most important genes associated with hereditary cancer predisposition, such as breast, ovarian, colorectal, prostate, pancreatic, endometrial, gastric, renal-kidney, polyposis, melanoma, pheochromocytomas, paragangliomas and other cancers.

Many individuals harboring an inherited pathogenic mutation identified from the HerediGENE® analysis will receive results that inform therapeutic decision-making and guide risk management strategies in both affected patients and their at-risk relatives according to international guidelines.

Who should be tested?

The latest guidelines from the American Society of Breast Surgeons suggest that a genetic test should be performed for each case of breast cancer.

Nevertheless, individuals who have a personal and/or family history that meet one or more of the following criteria may be considered as candidates for HerediGENE Assay:

- » Early stage of onset of any type of cancer
- » Individuals with multiple primary tumors
- » Bilateral cancers
- » Same type of cancer occurring in close relatives
- » Cancer incidence in multiple generations of a family
- » Rare tumor occurrence at any age

Hereditary Cancers and NCCN Guidelines

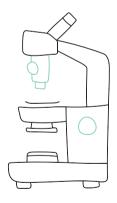
Hereditary cancers	NCCN Guidelines criteria	HerediGENE genes
Breast	Personal history of breast cancer at age ≤50 Breast cancer at any age with: Treatment indication for PARP inhibitors (e.g., metastatic setting or adjuvant olaparib for high-risk, HER2-negative cancer) Triple-negative breast cancer Multiple primary breast cancers (synchronous or metachronous) Lobular breast cancer with personal or family history of diffuse gastric cancer Male breast cancer Ashkenazi Jewish ancestry Family history	ATM, BARD1, BRCA1, BRCA2 BRIP1 CDH1, CHEK2, NBN, NF1 PALB2 PTEN, RAD50, RAD51C, RAD51D, SLX4, STK11 TP53, XRCC2
Ovarian	Personal history of epithelial ovarian cancer, including fallopian tube or peritoneal cancer (any age) Personal history of non-epithelial ovarian cancer, such as SCTAT or SCCOHT (any age) Family history	ATM, BARD1, BRCA1,2, BRIP1, EPCAM, MLH1, MSH2, MSH6, PALB2, PMS2, RAD51C, RAD51D, STK11
Pancreas	All individuals diagnosed with exocrine pancreatic cancer including acinar cell carcinoma Family history	APC, ATM, BRCA1,2, CDKN2A, EPCAM, MLH1, MSH2, MSH6, NF1, PALB2, STK11, TP53, MLH1, MSH6, PMS2, NBN

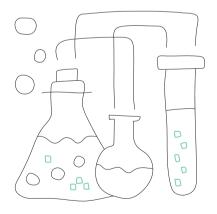
Prostate	Personal history of metastatic (Stage IVB), node-positive (Stage IVA), or high-/very high-risk prostate cancer Ashkenazi Jewish ancestry Family history	ATM, BRCA1,2, CHEK2, MLH1, MSH2, MSH6, PALB2, PMS2 (PRSS1*, SPINK1*) *PRSS1 and SPINK1 are genes associated with hereditary pancreatitis, a genetic condition characterized by recurrent inflammation of the pancreas starting at a young age. Over time, this chronic inflammation significantly increases the risk of developing pancreatic cancer, particularly in adulthood.
Colon	Personal history of LS-related cancer (e.g., colorectal or endometrial) diagnosed before age 50, or with synchronous/metachronous LS-related cancers, or a first-/second-degree relative with LS-related cancer diagnosed before 50, or two or more first-/second-degree relatives with LS-related cancers at any age. Family history Personal history of CRC, EC, or of other tumor with MMR deficiency determined by PCR, NGS, or IHC diagnosed at any age	APC, ATM, AXIN2, BAP1, BLM, BMPR1A, EPCAM, GREM1, KIT, MLH1, MSH2, MSH3, MSH6, MUTYH, NTHL1, PDGFRA, PMS2, POLD1, POLE, PTEN, RNF43, SMAD4, SDHA, SDHB, SDHC, SDHD, TP53, STK11
Gastric	Suspicious of Hereditary Cancer Predisposition Syndromes Associated with an Increased Risk for Gastric Cancers (Lynch Syndrome, Juvenile Polyposis Syndrome, Peutz-Jeghers Syndrome, Familial Adenomatous Polyposis)	APC, ATM, BAP1, BMPR1A, GREM1, KIT, NF1, PDGFRA, RNF43, SDHA, SDHB, SDHC, SDHD, SMAD4, STK11, TP53

Melanoma	Personal history of multiple primary melanomas Family history of two or more relatives with melanoma or pancreatic cancer Personal or family history of melanoma along with other cancers associated with hereditary cancer syndromes (e.g., pancreatic cancer, breast cancer) Individuals from families with known pathogenic variants in melanoma susceptibility genes (e.g., CDKN2A, CDK4) Family history	BAP1, BLM, BRCA2 , CDK4, CDKN2A, MITF, PTEN, TP53
Endometrial	Diagnosis before age 50 Synchronous or metachronous Lynch syndrome-related cancers Family history of Lynch syndrome-related cancers, especially if diagnosed before age 50 or involving first- or second-degree relatives Tumors showing mismatch repair deficiency (MMR-D) or microsatellite instability (MSI)	EPCAM, MLH1, MSH2, MSH6, NTHL1, PMS2, POLD1, POLE, PTEN, STK11
Endocrine Pheochromo- cytomas Paraga- ngliomas	-Patients with duodenal/pancreatic neuroendocrine tumor at any age -Genetic testing may be a consideration for patients with other combinations of tumors or cancers in the patient and/or their family members	APC, BAP1, BRCA2, CDKN1C, CTR9, FLCN, FH, EGLN1, EGLN2, EPAS1, EPCAM, KIF1B, KMT2D, MAX, MDH2, MEN1, MITF, MLH1, MSH2, MSH6, NF1, PMS2, PTEN, REST, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, SC1/ TSC2, TMEM127, TRIM28, TTP53, VHL

Renal Cell Carcinoma	Diagnosed at age ≤46 years Bilateral or multifocal kidney tumors At least one first- or second-degree relative with RCC Personal or family history of mesothelioma or uveal melanoma Tumor histology features suggesting hereditary RCC	APC, BAP1, BRCA2, CDKN1C, CTR9, EGLN1, EGLN2, EPCAM, EPAS1, FLCN, FH, KIF1B, KMT2D, MAX, MDH2, MEN1, MITF, MLH1, MSH2, MSH6, NF1, PMS2, PTEN, REST, RET, SDHA, SDHAF2, SDHB, SDHC, SDHD, TMEM127, TP53, TRIM28, TSC1/TSC2, VHL
Rare Cancer Types		ATRX, CDKN1C, CTR9, EXT1, EXT2, HRAS, RB1, RECQL4, REST

According to International Guidelines each genetic testing procedure should include pre-test counseling and post-test counseling.

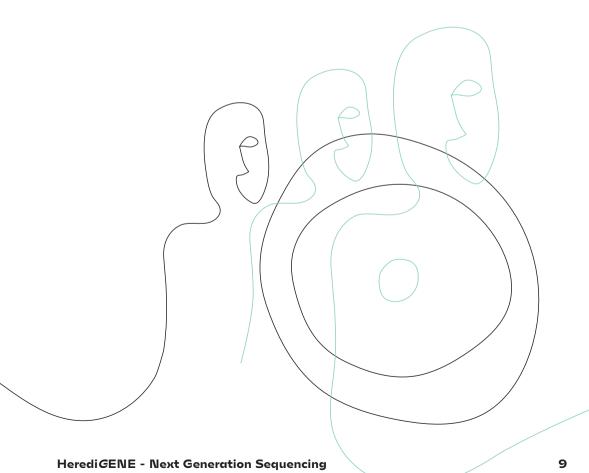




Targeted Therapies based on NCCN Guidelines

Cancer types	Treatment implications based on NCCN Guidelines	Targeted therapies
Breast	Adjuvant breast cancer TNBC -if 1) ≥pT2 or ≥pN1 disease after adjuvant chemotherapy -or 2) residual disease after preoperative chemotherapy HR-positive, HER2-negative tumors -if 1) ≥4 positive lymph nodes after adjuvant chemotherapy (category 2A) -or 2) residual disease after preoperative therapy and a clinical stage, pathologic stage, estrogen receptor status, and tumor grade (CPS+EG) score ≥3 (category 2A). Metastatic breast cancer	Olaparib Talazanarib
	Assess for germline BRCA1/2 mutations in all patients with recurrent or metastatic breast cancer to identify candidates for PARP inhibitor therapy (category 1)	Olaparib, Talazoparib (g <i>BRCA</i>) Olaparib (gPALB2)
Ovarian	Maintenance therapy	Olaparib, Niraparib (g/ s <i>BRCA</i>) Rucaparib
Pancreas	Metastatic Disease (Maintenance Therapy) • Patients who have response or stable disease after 4–6 months of chemotherapy may undergo maintenance therapy.	Olaparib (g <i>BRCA</i>) Rucaparib (g/s <i>BRCA</i> or <i>PALB2</i>) Useful in Certain Circumstances (off-label)
Prostate	Patients with mCRPC who have an HRR mutation Patients with mCRPC who have a BRCA mutation	Olaparib, Talazoparib Niraparib, Rucaparib

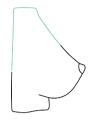
Uterine sarcoma	Consider PARP inhibitors for <i>BRCA2</i> - altered uLMS	Olaparib, Rucaparib, Niraparib Off-label
Various cancer types (HRD)	ATM, ATR, BAP1, BARD1, BRCA1, BRCA2, BRIP1, CHEK2, MRE11, NBN, PALB2, RAD50, RAD51B, RAD51C, RAD51D	Sensitivity to poly (ADP ribose) polymerase (PARP) inhibitors Off-label



It's a family issue...

A positive finding in an individual affects the whole family.

Sharing the results with the family members is a matter of high importance. Any at-risk relative must be tested for the same alteration. The possibility that this alteration is passed in the next generation is 50%. In case of a positive result, the physician will suggest the proper management for each case specifically.







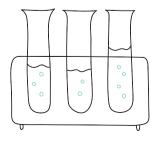


In any case, in order to reduce the likelihood of transmitting the risk of inherited cancer syndromes to a next generation, individuals should discuss available individualized management options with their treating physician, who is now able to manage the patient based on his or her genetics' background and not exclusively from his personal or family history.

Why is HerediGENE® one of the most trusted genetic tests for hereditary cancer?

HerediGENE® Test provides you with:

- » The NGS analysis of 83 genes, most of which are included in NCCN guidelines, and 17 of them are involved in Homologous Recombination
- » A comprehensive analysis: The assay targets all coding regions of the genes analyzed and 20 base pairs of flanking intronic sequences. Copy number variation (CNV) analysis is also included in genes ATM, BARD1, BRCA1, BRCA2, BRIP1, CHEK2, EPCAM, MLH1, MSH2, MSH6, MUTYH, RAD50, RAD51C, RAD51D and TP53. Based on the patient phenotype and the reason for referral, CNV analysis in other genes may be included (CDKN2A, CDH1, MEN1, NF1, RET, STK11, VHL).
- » Confirmation of all pathogenic findings through alternative, goldstandard methodologies (Sanger Sequencing, MLPA)
- » Constant updates and 6-month VUS reclassifications according to international guidelines from an expert scientific team
- » An experienced, dedicated team with numerous international publications on hereditary cancer and constant participation in international oncology conferences
- » The most robust and up-to-date databases curated by Genekor's bioinformatics department
- » A detailed recording of family medical history and genetic counseling before, during, and after the genetic test by our experienced scientific team at no additional charge
- **» State of the art equipment** for fast and reliable results



Clinical Utility

The HerediGENE® assay provides valuable information that can be used to reduce the risk of developing cancer.

- » It helps physicians to individualize patients' treatment.
- » It detects family members who belong to the increased risk category and who can benefit from a personalized risk reduction program.
- » It identifies relatives who are not at risk in order to avoid the stress of developing cancer but also to avoid possible unwanted interventions.

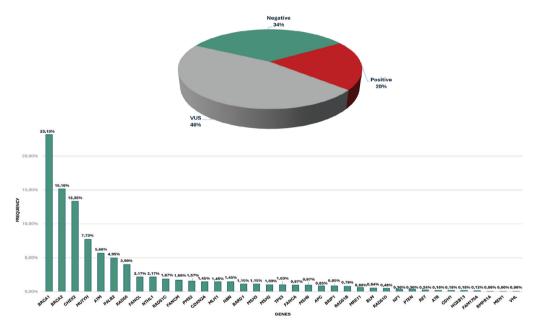


Figure. A) Results from the panel testing conducted on 8,216 individuals. Positive outcomes pertain to instances where a pathogenic variant/likely pathogenic variant was detected. VUS: Variant of unknown significance, B) Percentage of pathogenic/likely pathogenic findings identified in each gene

Publication: Tsoulos N, Agiannitopoulos K, Potska K, Katseli A, Ntogka C, Pepe G, Bouzarelou D, Papathanasiou A, Grigoriadis D, Tsaousis GN, Gogas H, Troupis T, Papazisis K, Natsiopoulos I, Venizelos V, Amarantidis K, Giassas S, Papadimitriou C, Fountzilas E, Stathoulopoulou M, Koumarianou A, Xepapadakis G, Blidaru A, Zob D, Voinea O, Özdoğan M, Ergören MÇ, Hegmane A, Papadopoulou E, Nasioulas G, Markopoulos C. The Clinical and Genetic Landscape of Hereditary Cancer: Experience from a Single Clinical Diagnostic Laboratory. Cancer Genomics Proteomics. 2024 Sep-Oct;21(5):448-463.

International Guidelines For //\ulti-Gene Testing

International Guidelines for Multigene Panels							
Selected All Patients							
NCCN®		\					
ASCO®	-						
American Society of Breast Surgeons (ASBrS)		/					
ESMO	—						

- 1. The National Comprehensive Cancer Network. Genetic/Familiar High Risk Assessment: Breast, Ovarian and Pancreatic
- 2. Robson, Mark E., et al. American Society of Clinical Oncology policy statement update: genetic and genomic testing for cancer susceptibility. Journal of Clinical Oncology 3660-3667.
- 3. Manahan ER, et al. Consensus Guidelines on Genetic Testing for Hereditary Breast Cancer from the American Society of Breast Surgeons. Ann Surg Oncol. 3025–3031.
- 4. Paluch-Shimon, S., et al. Prevention and screening in BRCA mutation carriers and other breast/ovarian hereditary cancer syndromes: ESMO Clinical Practice Guidelines for cancer prevention and screening. Annals of Oncology 27.suppl_5 v103-v110.

The Scientific Team of Genekor Medical S.A. consists of certified Clinical Geneticists with many years of experience in Cancer Genetics, having taken part in multiple clinical trials and having performed a large number of tests for Hereditary Cancer.

Technical Information

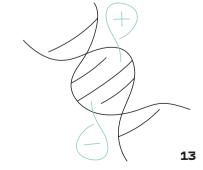
It utilizes next-generation sequencing (NGS) technology and sequencing is carried out in a DNBSEQ-T7 by MGI. This platform is an advanced high-throughput next-generation sequencing (NGS) platform designed to meet the demands of large-scale genomic studies. Utilizing MGI's proprietary DNBSEQTM technology, the system offers exceptional throughput, speed, and flexibility. All detected variants are classified with the most robust and up-to-date databases curated by Genekor's bioinformatics department. Confirmation of all pathogenic findings, including SNVs and CNVs, takes place using gold standard methodologies (Sanger, MLPA).

Sample Requirement

2 Vials of peripheral blood (EDTA) or buccal Swab

Turnaround Time

15 business days (from the day sample arrives to lab)



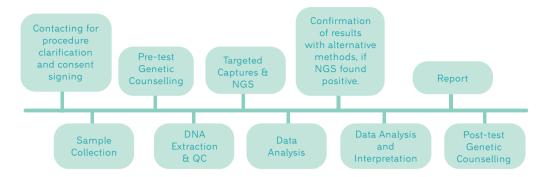
	Colon	Breast	Pancreas	Ovarian	Gastric	Melanoma	Endometrial	Endocrine	Renal
Genes									
APC	APC		APC		APC			APC	
ATM		ATM	ATM	ATM					
AXIN2	AXIN2								
ATRX									
BAP1	BAP1					BAP1		BAP1	
BARD1		BARD1		BARD1					
BLM	BLM					BLM			
BMPR1A*	BMPR1A				BMPR1A				
BRAF*									
BRCA1*			BRCA1	BRCA1					
BRCA2		BRCA2	BRCA2	BRCA2		BRCA2			
BRIP1	BRIP1			BRIP1					
CDH1		CDH1			CDH1				
CDK4						CDK4			
CDKN1C								CDKN1C	CDKN1C
CDKN2A			CDKN2A			CDKN2A			
CHEK2*		CHEK2							
CTR9								CTR9	CTR9
EGLN1								EGLN1	
EGLN2								EGLN2	
EPAS1								EPAS1	
EPCAM	<i>EPCAM</i>		<i>EPCAM</i>	<i>EPCAM</i>			<i>EPCAM</i>		
EXT1									
EXT2									
FGFR1									
FH								FH	FH
FLCN								FLCN	FLCN
GREM1	GREM1								
H3-3A									
HRAS									
IDH2									
KIF1B								KIF1B	KIF1B
KIT	KIT				KIT				
KMT2D								KMT2D	KMT2D
MAX								MAX	MAX
MDH2								MDH2	
MEN1								MEN1	
MERTK									
MET								MET	MET
MLH1			MLH1				MLH1		
MRE11A									
MSH2	MSH2		MSH2	MSH2					
MSH3	MSH3								

D 1.1	Б Т	T I 1	LIDD	
Prostate	Rare Tumors	Thyroid	HRD	Associated Phenotype
				Familial adenomatous polyposis
ATM			ATM	Breast cancer, Ataxia-Telangiectasia
7 17 11			7.17.77	Colorectal cancer
				Alpha-thalassemia myelodysplasia syndrome
			BAP1	Colorectal cancer, Uveal Melanoma
			BARD1	Breast cancer
			B) II (B)	Bloom syndrome
				Polyposis, juvenile intestinal
				LEOPARD syndrome, Noonan syndrome
				Pancreatic cancer, Breast-ovarian cancer, familial, Fanconi anemia
				Fanconi anemia, Medulloblastoma, Glioma susceptibility, Pancreatic cancer,
BRCA2			BRCA2	Wilms tumor, Breast-ovarian cancer, familial
			BRIP1	Fanconi anemia, Breast cancer
				Hereditary diffuse gastric cancer
				Melanoma, cutaneous malignant
				Beckwith-Wiedemann syndrome, Wilms Tumors, Neuroblastoma, Hepatoblastoma
				Melanoma, familial, Melanoma-pancreatic cancer syndrome
CHEK2			CHEK2	Breast cancer
	CTR9			Myeloid Malignancies, Wilms Tumor
	EGLN1			Paraganglioma or Pheochromocytoma
	EGLN2			Paraganglioma or Pheochromocytoma
	EPAS1			Paraganglioma or Pheochromocytoma
				Colorectal cancer, hereditary nonpolyposis
	EXT1			Multiple cartilagenious exostoses 1
	EXT2			Multiple cartilagenious exostoses 2
				Hereditary leiomyomatosis and renal cell cancer
				Birt-Hogg-Dube syndrome,
				Hereditary mixed polyposis syndrome
	HRAS			Costello syndrome
				Pheochromocytoma, Neuroblastoma
				Gastrointestinal stromal tumor
				Neuroblastoma, Wilms Tumor
				Pheochromocytoma
				Paraganglioma or Pheochromocytoma
		MEN1		Hyperparathyroidism, Multiple endocrine neoplasia
				Renal cell carcinoma
MLH1				Lynch Syndrome
			MRE11A	Ataxia-telangiectasia-like disorder-1
				Lynch Syndrome
				Colorectal adenomatous polyposis

	Colon	Breast	Pancreas	Ovarian	Gastric	Melanoma	Endometrial	Endocrine	Renal
Genes									
MSH6	MSH6		MSH6	MSH6			MSH6		
MTAP									
MUTYH	MUTYH								
NBN		NBN							
NF1*		NF1	NF1		NF1			NF1	NF1
NF2								NF2	
NTHL1	NTHL1						NTHL1		
PALB2		PALB2	PALB2						
PDGFRA	PDGFRA				PDGFRA				
PMS2			PMS2				PMS2		
POLD1	POLD1						POLD1		
POLE	POLE						POLE		
PRSS1			PRSS1						
PTEN*	PTEN	PTEN				PTEN	PTEN	PTEN	PTEN
RAD50		RAD50							
RAD51C		RAD51C							
RAD51D		RAD51D							
RB1									
RECQL4									
REST								REST	REST
RET								RET	RET
RNF43	RNF43								
SDHA*	SDHA				SDHA			SDHA	SDHA
SDHAF2								SDHAF2	SDHAF2
SDHB	SDHB				SDHB			SDHB	SDHB
30110	JUILD				JUITE			30110	30110
SDHC					SDHC			SDHC	SDHC
SDHD#	SDHD				SDHD			SDHD	SDHD
SLX4									
SMAD4	SMAD4				SMAD4				
SPINK1			SPINK1						
SQSTM1									
STK11	STK11	STK11	STK11				STK11		
TMEM127								TMEM127	TMEM127
TDEO	7050	TD50	TOSA		7050	TD50		7550	TDEO
TP53	TP53	TP53	TP53		TP53	TP53		TP53	TP53
TRIM28								TRIM28	TRIM28
TSC1								TSC1	TSC1
TSC2								TSC2	TSC2
VHL								VHL	VHL
WT1								WT1	WT1
		XPCC2						VVII	VVII
XRCC2		XRCC2							

Prostate	Rare Tumors	Thyroid	HRD	
1 lostate	raic famors	Triyroid	TIND	Associated Phenotype
MSH6				Lynch Syndrome
Wiellie				Eynen Syndrome
				Familial adenomatous polyposis, Colorectal adenomatous polyposis
				Breast cancer, Nijmegen breakage syndrome
				Neurofibromatosis, Neurofibromatosis-Noonan syndrome
				Neurofibromatosis
				Familial adenomatous polyposis 3
				Fanconi anemia, Pancreatic cancer, Breast cancer
				Gastrointestinal stromal tumor
PMS2				Lynch Syndrome
1 1002				Colorectal cancer
				Colorectal cancer
				Hereditary Pancreatitis
				Cowden syndrome
			RAD50	-
				Nijmegen breakage syndrome-like disorder
			RAD51C	Fanconi anemia, Breast-ovarian cancer
	004		RAD51D	Breast-ovarian cancer
	RB1			Retinoblastoma
	RECQL4			Skin Cancer, Osteosarcoma
				Fibromatosis, Wilms tumor
	RET	RET		Pheochromocytoma, Medullary thyroid carcinoma, Multiple endocrine neoplasia
				Polyposis cancer syndrome
				Gastrointestinal stromal tumor, Paragangliomas
				Paragangliomas
				Paraganglioma and gastric stromal sarcoma, Pheochromocytoma, Gastroin- testinal stromal tumor, Paragangliomas, Cowden-like syndrome
				Paraganglioma and gastric stromal sarcoma, Gastrointestinal stromal tumor, Paragangliomas
				Paraganglioma and gastric stromal sarcoma, Pheochromocytoma, Paragangliomas, Carcinoid tumors, intestinal, Cowden syndrome
	SLX4			Fanconi anemia
				Juvenile polyposis
				Hereditary Pancreatitis
				Peutz-Jeghers syndrome
				Pheochromocytoma
TP53	TP53			Colorectal cancer, Li-Fraumeni syndrome, Ependymoma, intracranial, Choroid plexus papilloma, Breast cancer, familial, Adrenocortical carcinoma, Osteogenic sarcoma, Hepatoblastoma, Non-Hodgkin lymphoma
				Wilms Tumor
	TSC1			Tuberous sclerosis
	TSC2			Tuberous sclerosis
				Pheochromocytoma, Von Hippel-Lindau disease
				Wilms tumor
				Fanconi anemia, Breast cancer

Workflow



Genekor's Validation Studies

- » Tsoulos N, Agiannitopoulos K, Potska K, Katseli A, Ntogka C, Pepe G, Bouzarelou D, Papathanasiou A, Grigoriadis D, Tsaousis GN, Gogas H, Troupis T, Papazisis K, Natsiopoulos I, Venizelos V, Amarantidis K, Giassas S, Papadimitriou C, Fountzilas E, Stathoulopoulou M, Koumarianou A, Xepapadakis G, Blidaru A, Zob D, Voinea O, Özdoğan M, Ergören MC, Hegmane A, Papadopoulou E, Nasioulas G, Markopoulos C. The Clinical and Genetic Landscape of Hereditary Cancer: Experience from a Single Clinical Diagnostic Laboratory. Cancer Genomics Proteomics. 2024 Sep-Oct;21(5):448-463.
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