

Genetic Mutations and Their Known Associated Cancers

GENES	BREAST	OVARIAN	COLORECTAL	UTERINE	PANCREATIC	PROSTATE	STOMACH	MELANOMA	OTHERS
APC			✓		✓				✓
BMPR1A			✓				✓		
BRCA1	✓	✓			✓	✓			✓
BRCA2	✓	✓			✓	✓		✓	✓
CDH1	✓						✓		✓
CDKN2A					✓			✓	✓
CDK4								✓	✓
EPCAM		✓	✓	✓	✓	✓	✓		✓
MLH1		✓	✓	✓	✓	✓	✓		✓
MSH2		✓	✓	✓	✓	✓	✓		✓
MSH6		✓	✓	✓	✓	✓	✓		✓
MUTYH biallelic	✓		✓	✓					
PMS2		✓	✓	✓	✓	✓	✓		✓
PTEN	✓		✓	✓				✓	✓
SMAD4			✓				✓		
STK11	✓	✓	✓		✓				✓
TP53	✓	✓	✓	✓	✓	✓	✓	✓	✓

GENES	BREAST	OVARIAN	COLORECTAL	UTERINE	PANCREATIC	PROSTATE	STOMACH	MELANOMA	OTHERS
ATM	✓				✓	✓			
BRIP1	✓	✓							
CHEK2	✓	✓	✓			✓			✓
GREM1			✓						
NF1	✓								✓
PALB2	✓	✓			✓	✓			
POLD1			✓						
POLE			✓						
RAD51C	✓	✓							
RAD51D	✓	✓				✓			
TP53	✓	✓	✓	✓	✓	✓	✓	✓	✓

Source: Ambry Genetics 2020