



	GENE(S)	ASSOCIATED CANCER RISKS
PancNext	<i>BMPR1A/SMAD4</i>	Colorectal (40-50%), stomach (up to 21%)
	<i>CDH1</i>	Diffuse gastric (67-83%), female lobular breast (39-52%), colorectal
	<i>GREM1</i>	Colorectal
	<i>MUTYH</i>	Biallelic mutations: colorectal (up to 80%), stomach, duodenal, uterine, breast Monoallelic mutations: breast, colorectal (up to 2 fold)
	<i>POLD1/POLE</i>	Colorectal
	<i>PTEN</i>	Breast (25-85%), thyroid (10-35%), uterine (5-28%), melanoma (up to 6%), other
	<i>EPCAM*</i>	Colorectal (52-82%), uterine (12-55%), possibly prostate, other
	<i>MLH1*</i>	Colorectal (52-82%), uterine (25-60%), stomach (6-13%), ovarian (4-12%), prostate (2 fold), other
	<i>MSH2*</i>	Colorectal (52-82%), uterine (25-60%), stomach (6-13%), ovarian (4-12%), prostate (2 fold), other
	<i>MSH6*</i>	Colorectal (20-44%), uterine (up to 44%), prostate (2 fold), other
	<i>PMS2*</i>	Colorectal (15-20%), uterine (15%), possibly prostate, other
	CancerNext	<i>APC</i>
<i>STK11</i>		GI cancers (up to 57%) breast (up to 45%), pancreatic, other
<i>TP53</i>		Breast, sarcoma, brain, adrenocortical, leukemia, other
<i>ATM</i>		Breast (2-4 fold), pancreatic, prostate
<i>CDKN2A</i>		Melanoma (28-67%), pancreatic (17-25%), brain
<i>BRCA1</i>		Female breast (57-87%), ovarian (39-40%), pancreatic, melanoma, prostate, male breast
<i>BRCA2</i>		Female breast (45-84%), ovarian (11-18%), pancreatic, melanoma, prostate (15%), male breast (>6%)
<i>PALB2</i>		Breast (33-58%), pancreatic, ovarian, possibly prostate, male breast
<i>BARD1</i>		Breast, possibly ovarian
<i>BRIP1</i>		Ovarian (up to 9%), breast
<i>CDK4</i>		Melanoma (up to 74% by age 50)
<i>MRE11A</i>		Breast, possibly ovarian
<i>NBN</i>	Breast, possibly ovarian, brain, prostate	
<i>NF1</i>	Breast (3-5 fold), malignant nerve sheath tumors (8-13%), PGL/PCC (up to 7%), brain, other	
<i>RAD50</i>	Breast, possibly ovarian	
<i>RAD51C</i>	Ovarian (5-9%), breast	
<i>RAD51D</i>	Ovarian (10-12%), breast, prostate	
<i>SMARCA4</i>	Ovarian (small cell carcinoma, hypercalcemic type), brain, other	

*Lynch syndrome