

Supplementary Table S1. 30 Genes Panel covering most of the relevant genes for mutations that could increase risk for Breast, Ovarian, Uterine, Colorectal, Melanoma, Pancreatic, Stomach, Prostate

30 Genes Panel					
BRCA1	BRCA2	MLH1	MSH2	MSH6	PMS2***
EPCAM**	APC	MUTYH	MITF**	BAP1	CDKN2A
CDK4**	TP53	PTEN	STK11	CDH1	BMPR1A
SMAD4	GREM1**	POLD1**	POLE**	PALB2	CHEK2
ATM	NBN	BARD1	BRIP1	RAD51C	RAD51D

** Only positions known to impact cancer risk analyzed: CDK4: only chr12:g.58145429-58145431 (codon 24) analyzed, EPCAM: only large deletions and duplications including 3' end of the gene analyzed, GREM1: only duplications in the upstream regulatory region analyzed, MITF: only chr3:g.70014091 (including c.952G>A) analyzed, POLD1: only chr19:g.50909713 (including c.1433G>A) analyzed, POLE: only chr12:g.133250250 (including c.1270C>G) analyzed.

*** PMS2: Exons 12-15 not analyzed.