

Supplemental table 1. DNA repair SNPs and PUFA intake interaction and colorectal cancer risk

SNPs	Total n-6 PUFA		Total n-3 PUFA		Marine n-3 PUFA	
	Low	High	Low	High	Low	High
OGG1 codon 326						
Ser/Ser						
N (co/ca)	93/16	90/19	86/19	97/16	84/15	99/20
OR ¹ (CI)	1.0 ^{ref}	1.4 (0.6-3.0)	1.0 ^{ref}	0.7 (0.3-1.5)	1.0 ^{ref}	1.1 (0.5-2.3)
Ser/Cys & Cys/Cys						
N (co/ca)	454/123	522/145	481/134	495/134	487/128	489/140
OR ¹ (CI)	1.6 (0.8-2.8)	1.8 (1.0-3.2)	1.1 (0.6-2.0)	1.2 (0.7-2.2)	1.4 (0.8-2.6)	1.5 (0.8-2.6)
<i>P</i> for interaction		0.687		0.286		0.961
PARP codon 762						
Val/Val						
N (co/ca)	191/42	190/51	181/45	200/48	172/40	209/53
OR ¹ (CI)	1.0 ^{ref}	1.4 (0.8-2.2)	1.0 ^{ref}	1.0 (0.6-1.6)	1.0 ^{ref}	1.1 (0.7-1.6)
Val/Ala & Ala/Ala						
N (co/ca)	366/98	426/116	393/108	399/106	406/103	386/111
OR ¹ (CI)	1.2 (0.8-1.9)	1.4 (0.9-2.1)	1.1 (0.7-1.6)	1.1 (0.7-1.7)	1.1 (0.7-1.6)	1.2 (0.8-1.8)
<i>P</i> for interaction		0.552		0.781		0.695
PARP codon 940						
Lys/Lys						
N (co/ca)	527/129	870/152	542/138	572/143	548/130	566/151
OR ¹ (CI)	1.0 ^{ref}	1.2 (0.9-1.5)	1.0 ^{ref}	1.1 (0.8-1.4)	1.0 ^{ref}	1.1 (0.8-1.5)
Lys/Arg & Arg/Arg						
N (co/ca)	26/11	25/12	27/13	24/10	26/11	25/12
OR ¹ (CI)	1.6 (0.7-3.6)	2.6 (1.2-5.7)	2.1 (1.0-4.3)	1.8 (0.8-4.3)	2.0 (0.9-4.4)	2.0 (0.9-4.4)
<i>P</i> for interaction		0.574		0.769		0.86
XPD codon 312						
Asp/Asp						
N (co/ca)	513/126	561/148	521/140	553/134	521/131	553/143
OR ¹ (CI)	1.0 ^{ref}	1.2 (0.9-1.6)	1.0 ^{ref}	1.0 (0.7-1.3)	1.0 ^{ref}	1.0 (0.8-1.3)
Asp/Asn & Asn/Asn						
N (co/ca)	43/12	51/15	50/11	44/16	56/10	38/17
OR ¹ (CI)	1.1 (0.6-2.3)	1.3 (0.7-2.6)	1.0 (0.5-2.0)	1.3 (0.7-2.5)	0.7 (0.4-1.5)	1.8 (0.9-3.4)
<i>P</i> for interaction		0.981		0.503		0.082
XPD codon 751						
Lys/Lys						
N (co/ca)	475/120	523/131	491/129	507/122	492/119	506/132
OR ¹ (CI)	1.0 ^{ref}	1.1 (0.8-1.5)	1.0 ^{ref}	1.0 (0.7-1.3)	1.0 ^{ref}	1.1 (0.8-1.4)
Lys/Gln & Gln/Gln						
N (co/ca)	76/21	89/31	78/23	87/29	80/23	85/29
OR ¹ (CI)	1.1 (0.6-2.0)	1.8 (1.1-2.9)	1.3 (0.7-2.2)	1.5 (0.9-2.5)	1.2 (0.7-2.1)	1.6 (1.0-2.7)
<i>P</i> for interaction		0.341		0.646		0.577

XRCC1 codon 194

Arg/Arg						
N (co/ca)	280/73	306/88	285/79	301/82	287/81	299/80
OR ¹ (CI)	1.0 ^{ref}	1.2 (0.8-1.7)	1.0 ^{ref}	1.1 (0.7-1.6)	1.0 ^{ref}	1.0 (0.7-1.4)
Arg/Trp & Trp/Trp						
N (co/ca)	273/68	303/76	284/74	292/70	283/61	293/83
OR ¹ (CI)	0.9 (0.6-1.3)	1.0 (0.7-1.5)	0.9 (0.6-1.3)	0.9 (0.6-1.3)	0.8 (0.5-1.2)	0.9 (0.6-1.4)
<i>P for interaction</i>		0.954		0.750		0.526

XRCC1 codon 399

Arg/Arg						
N (co/ca)	282/81	325/86	287/85	320/82	294/80	313/87
OR ¹ (CI)	1.0 ^{ref}	1.1 (0.7-1.6)	1.0 ^{ref}	1.0 (0.7-1.4)	1.0 ^{ref}	1.0 (0.7-1.5)
Arg/Gln & Gln/Gln						
N (co/ca)	247/55	266/72	262/64	251/63	262/60	251/67
OR ¹ (CI)	0.8 (0.6-1.2)	1.1 (0.7-1.6)	0.9 (0.6-1.3)	0.9 (0.6-1.4)	0.9 (0.6-1.3)	1.0 (0.7-1.4)
<i>P for interaction</i>		0.528		0.641		0.724

¹ORs obtained from logistic regression models adjusted for age at interview(continuous), year at interview(continuous), sex (dichotomous), dialect (Cantonese and Hokkien), level of education (tertiles), body mass index (categorical), family history of colorectal cancer (present, absent), total alcohol drinks/week (none,<7,>7), smoking index (never, light, heavy), physical activity (low, high), total caloric intake

²Fat intake values are expressed as nutrient densities and dichotomized into low and high using the median among controls

^{Ref}Reference group