

Supplemental Table S1. Descriptive characteristics of study populations in the GECCO and CORECT model building dataset

<b>Study Name</b>	<b>Short Name</b>	<b>Design</b>	<b>Country</b>	<b>Cases</b>	<b>Controls</b>	<b>Mean Age (range)</b>	<b>Female (%)</b>
<b>Hawaii Colorectal Cancer Studies 2 and 3</b>	Colo2&3	Case/Control	U.S.	48	70	64 (38-84)	49
<b>Cancer Prevention Study II</b>	CPS2	Cohort Study	U.S.	279	275	75 (58-94)	49
<b>Darmkrebs: Chancen der Verhütung durch Screening</b>	DACHS	Case/Control	Germany	1187	1092	68 (33-99)	40
<b>Diet, Activity and Lifestyle Study</b>	DALS	Case/Control	U.S.	579	570	65 (30-79)	44
<b>Health Professionals Follow-up Study</b>	HPFS	Cohort Study	U.S.	74	57	70 (50-89)	0
<b>Kentucky Case-Control Study</b>	Kentucky	Case/Control	U.S.	505	586	65 (21-95)	53
<b>Melbourne Collaborative Cohort Study</b>	MCCS	Cohort Study	Australia	125	226	68 (45-87)	48
<b>Multi-Ethnic Cohort</b>	MEC	Cohort Study	U.S.	120	187	70 (47-89)	46
<b>Molecular Epidemiology of Colorectal Cancer</b>	MECC	Case/Control	Israel	540	393	72 (25-95)	48
<b>Newfoundland Case-Control Study</b>	NFCCR	Case/Control	Canada	99	234	62 (23-76)	38
<b>Nurses' Health Study</b>	NHS	Cohort Study	U.S.	118	273	66 (46-83)	100
<b>Prostate, Lung, Colorectal and Ovarian Cancer Screening Trial</b>	PLCO	Cohort Study	U.S.	426	414	70 (55-87)	42
<b>VITamins And Lifestyle</b>	VITAL	Cohort Study	U.S.	151	138	70 (51-83)	49
<b>Women's Health Initiative</b>	WHI	Cohort Study	U.S.	624	776	72 (52-89)	100