

Supplement Table 1. Age- and sex-adjusted Pearson correlation coefficient between all investigated meat-related variables in the PLCO Cancer Screening Trial participants (n =99,579)

	Red meat	Processed meat	Grilled/ BBQ	Pan- fried	Oven- broiled	Sautéed/ microw/ baked	Rare done	Very- well done	OMA	MeIQx	DiMeIQx	PhIP	B(a)P	Heme Iron
Red meat	1.0	0.55	0.39	0.52	0.11	0.11	0.39	0.39	0.50	0.59	0.36	0.41	0.43	0.82
Processed meat	0.55	1.0	0.21	0.39	0.08	0.08	0.20	0.30	0.31	0.37	0.20	0.24	0.25	0.60
Grilled/ BBQ	0.39	0.21	1.0	0.12	-0.03	0.008	0.45	0.47	0.57	0.41	0.45	0.58	0.62	0.48
Pan-fried	0.52	0.39	0.12	1.0	-0.08	0.004	0.31	0.53	0.49	0.70	0.38	0.28	0.21	0.48
Oven- Broiled	0.11	0.08	-0.03	-0.08	1.0	0.04	0.03	-0.06	0.04	-0.05	-0.07	0.21	0.006	0.13
Sautéed/ microw/ baked	0.11	0.08	0.008	0.004	0.04	1.0	0.05	-0.05	0.02	0.03	-0.08	0.04	0.02	0.15

Rare done	0.39	0.20	0.45	0.31	0.03	0.05	1.0	0.04	0.15	0.17	0.11	0.26	0.27	0.41
Very-well done	0.39	0.30	0.47	0.53	-0.06	-0.05	0.04	1.0	0.84	0.79	0.73	0.59	0.47	0.44
OMA	0.50	0.31	0.57	0.49	0.04	0.02	0.15	0.84	1.0	0.83	0.78	0.82	0.59	0.62
MeIQx	0.59	0.37	0.41	0.70	-0.05	0.03	0.17	0.79	0.83	1.0	0.72	0.59	0.54	0.64
DiMeIQx	0.36	0.20	0.45	0.38	-0.07	-0.08	0.11	0.73	0.78	0.72	1.0	0.59	0.44	0.43
PhIP	0.41	0.24	0.58	0.28	0.21	0.04	0.26	0.59	0.82	0.59	0.59	1.0	0.61	0.55
B(a)P	0.43	0.25	0.62	0.21	0.006	0.02	0.27	0.47	0.59	0.54	0.44	0.61	1.0	0.56
Heme Iron	0.82	0.60	0.48	0.48	0.13	0.15	0.41	0.44	0.62	0.64	0.43	0.55	0.56	1.0
