



Supplementary Material

Table S1. Factor loadings of food groups in dietary patterns identified using principle component analysis.

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Food group	Balanced diet		Western-style diet		Rice-based diet	
Rice	-7		-5		90	*
Grain	6		6		-86	*
Noodles	-1		61	*	9	
Breads	10		57	*	-7	
Cakes	9		33		2	
Cookies	53	*	7		-4	
Beans	48	*	11		-9	
Potatoes	42	*	-1		5	
Kimchi	30		19		-2	
Eggs	1		77	*	1	
Fast foods	79	*	2		0	
Green vegetables	74	*	4		7	
Mushroom	61	*	-2		-4	
White vegetables	56	*	13		5	
Fatty fish	64	*	14		8	
White fish	42	*	19		11	
Crabs	23		8		-1	

Nutrients **2020**, 12, 3534

Processed meats	32		38		21	
Red meats	12		66	*	5	
Soups	23		37		15	
Chickens	59	*	2		-6	
Seaweeds	36		7		-8	
Milk	33		9		0	
Beverages	-1		13		20	
Coffee	5		21		20	
Tea	42	*	0		-13	
Fruit	41	*	4		10	
Pickle	-1		11		16	
Nuts	26		12		-15	
Variance Explained by Each Factor	4.46		2.35		1.85	
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Printed values are multiplied by 100 and rounded to the nearest integer. *Values greater than 0.4.

Nutrients **2020**, 12, 3534

Table S2. Adjusted odds ratios for age-related cataract according to the polygenetic risk scores of the best model (PRS) for gene-gene interaction after covariate adjustments.

	Model 1			Model 2		
	Low-PRS	Medium-PRS	High-PRS	Medium-PRS	High-PRS	
	(n = 6.877)	(n = 23,800)	(n = 9,784)	(n = 23,800)	(n = 9,784)	
BMI	1	0.95 (0.90-1.01)	0.97 (0.90-1.03)	0.93 (0.85-1.01)	0.97 (0.88-1.07)	
Fasting serum glucose (>126 mg/dL)	1	1.05 (0.95-1.16)	1.11 (0.99-1.24)	1.07 (0.91-1.26)	1.13 (0.95-1.35)	
HbA1c	1	1.18 (0.96-1.45)	1.17 (0.94-1.46)	1.14 (0.93-1.41)	1.12 (0.90-1.40)	
Hypertension	1	1.01 (0.95-1.08)	1.01 (0.93-1.08)	1.04 (0.96-1.14)	1.04 (0.94-1.15)	
Plasma LDL cholesterol	1	0.99 (0.92-1.07)	0.98 (0.91-1.07)	0.98 (0.89-1.08)	1.01 (0.90-1.13)	
Plasma HDL cholesterol	1	1.03 (0.97-1.09)	1.03 (0.95-1.10)	1.05 (0.96-1.15)	1.08 (0.98-1.20)	
Plasma TG	1	0.96 (0.91-1.02)	0.95 (0.89-1.02)	0.92 (0.85-1.01)	0.94 (0.85-1.03)	

Values represent odd ratios and 95% confidence intervals. PRSBM including 5 SNPs selecting from GMDR was divided into 3 categories (0-5, 6-7, and \geq 8) by tertiles as the low, medium and high groups, respectively. Low-PRSBM was the reference for both model 1 and model 2. *Significantly different from low PRSBM in logistic regression analysis at * P<0.05, ** P<0.01, *** P<0.001. Model 1: adjusted for age, gender, residence area, survey year, body mass index (BMI), education, job, and income. Model 2: adjusted for age, gender, residence area, survey year, smoking, alcohol, education, job, income, energy, activity, hypertension, milk, fat percent intake, carbohydrate percent intake, and arthritis and dermatitis medicine intake.



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