**S3 Table** Associations between sex-specific Genetic Scores and M-Index.

	Males			Females		
	$R^2$	β	P	$R^2$	β	P
Whole Model	0.367			0.448		
Age	0.008	-0.001	< 0.001	0.074	-0.001	0.01
WAA	0.233	0.175	< 0.001	0.292	0.216	< 0.001
Genetic Score <sup>1</sup>	0.126	0.892	< 0.001	0.082	0.607	< 0.001

Weighted sex-specific Genetic Score was calculated using top three SNPs, rs2470102 (*SLC24A5*), rs16891982 (*SLC45A2*), and rs1800404 (*OCA2*) associated with M-Index.