Table S10. Partitioning contribution of androgen- (AR) and estrogen- (ER) responsive genes and of conserved regions to male and female heritability in GIANT anthropometric traits.

Trait	AR			ER			Conserved regions		
	$M h^2_g (SE)^{}$	$F h^2_g (SE)^{}$	$h^2{}_{g\mathrm{CORR}}$ (SE)^^	$M h^2_g (SE)^{}$	$\mathbf{F} h_g^2 (SE)^{}$	$h^2_{g  \text{CORR}}$ $(SE)^{\wedge}$	$M h^{2}_{g} (SE)^{}$	$\mathbf{F} h_g^2 (SE)^{}$	$h^2_{g  \text{CORR}}$ $(SE)^{\land,\$}$
BMI	9% (1%)	7% (1%)*	0.42 (0.28)*	3% (1%)	5% (1%)	0.72 (0.32)	47% (7%)****	40% (6%)****	0.63 (0.10)***
HIP	11% (2%)	10% (2%)	0.57 (0.22)*	3% (1%)	6% (1%)	-	51% (9%)****	32% (6%)****	0.59 (0.13)***
HIP-a	14% (2%)	16% (2%)	0.77 (0.16)	5% (1%)	5% (1%)	0.55 (0.28)	30% (7%)**	37% (6%)****	0.81 (0.17)
WC	09% (2%)	08% (1%)	0.91 (0.44)	4% (0%)	6% (1%)	0.66 (0.39)	54% (9%)****	44% (8%)****	0.52 (0.12)****
WC-a	02% (2%)	16% (3%)	0.72 (0.13)*	6% (1%)	9% (2%)	0.74 (0.22)	44% (7%)****	40% (8%)****	-
WHR	09% (2%)	12% (3%)	0.59 (0.22)*	07% (2%)	5% (2%)	0.61 (0.48)	55% (8%)****	53% (9%)****	0.46 (0.12)****
WHR-a	14% (3%)	16% (3%)	0.42 (0.13)****	09% (2%)*	6% (2%)	0.48 (0.28)*	46% (9%)****	47% (9%)****	-
HEIGHT	18% (2%)*	18% (2%)*	0.66 (0.12)**	5% (1%)	6% (2%)	0.83 (0.28)	35% (6%)****	35% (6%)****	-
WEIGHT	13% (2%)	09% (2%)	0.26 (0.14)****	2% (1%)***	6% (1%)	-	44% (8%)****	41% (7%)****	0.67 (0.15)

Abbreviations:  $h_g^2$  heritability;  $h_{gCORR}^2$  genetic correlation.

p-value on the coefficient of enrichment measured jointly with 51 known functional categories (including genic and regulatory)

<sup>^</sup> p-value on the observed genetic correlation being different from 1.0

<sup>§</sup> reported if significant after accounting for 51 annotations tested

 $<sup>\%</sup> h_g^2$  computed as  $(h_g^2$  in category) /  $(h_g^2$  total) with corresponding standard error estimated using delta method AR and ER genes covered 6% and 3% of SNPs, respectively.