

The effect of inbreeding on BMI and height

May 20, 2013

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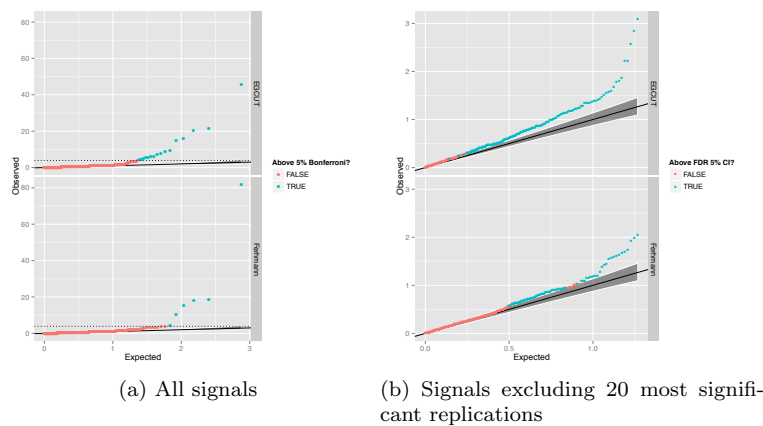


Figure 1: Q-Q plots of interaction p-values from replication dataset

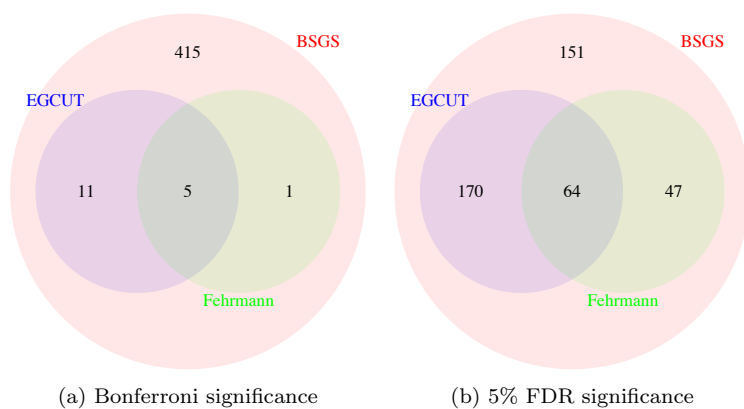


Figure 2: Overlap in signals between replication datasets

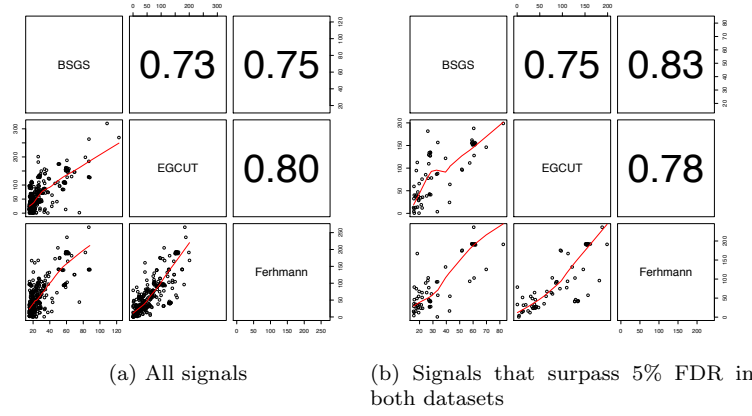


Figure 3: Full genetic effects correlate between datasets (8d.f. p-values)

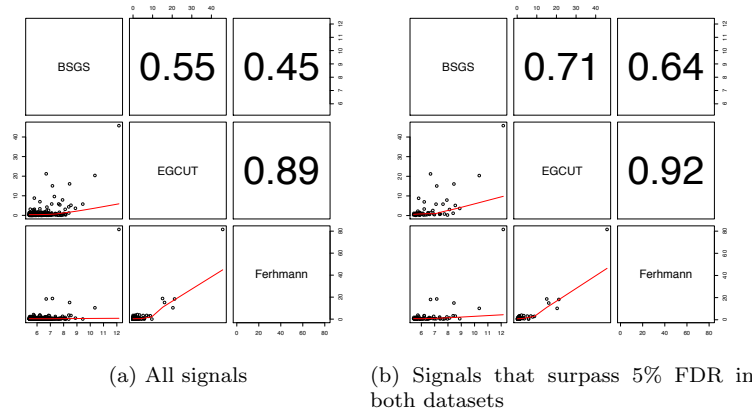


Figure 4: Full genetic effects correlate between datasets (8d.f. p-values)

Probe gene	SNP1	SNP2	Replication	Type	Previous associations
ADK (chr10)	rs2395095 (chr10)	rs10824092 (chr10)	Ferhmann* + EGCUT*	cis-cis	known-known
C8ORF59 (chr8)	rs7152284 (chr14)	rs2896452 (chr8)	Ferhmann	trans-cis	new-known
CEACAM21 (chr19)	rs4803481 (chr19)	rs2421050 (chr5)	Ferhmann	cis-trans	known-new
CTSC (chr11)	rs7930237 (chr11)	rs556895 (chr11)	Ferhmann* + EGCUT*	cis-cis	known-known
GPR177 (chr1)	rs12532999 (chr7)	rs12065581 (chr1)	Ferhmann	trans-cis	new-known
HMBOX1 (chr8)	rs4765451 (chr12)	rs8180944 (chr8)	EGCUT	trans-cis	new-known
HMBOX1 (chr8)	rs8180944 (chr8)	rs4553956 (chr3)	Ferhmann	cis-trans	known-new
MBNL1 (chr3)	rs218671 (chr17)	rs13069559 (chr3)	EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs2030926 (chr6)	rs13069559 (chr3)	EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs11981513 (chr7)	rs13069559 (chr3)	EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs4392535 (chr4)	rs13069559 (chr3)	EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs4735830 (chr8)	rs13069559 (chr3)	EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs7710738 (chr5)	rs13069559 (chr3)	Ferhmann + EGCUT*	trans-cis	new-known
MBNL1 (chr3)	rs2614467 (chr14)	rs13069559 (chr3)	Ferhmann*	trans-cis	new-known
MBNL1 (chr3)	rs16864367 (chr3)	rs13069559 (chr3)	Ferhmann* + EGCUT*	cis-cis	known-known
NAPRT1 (chr8)	rs2123758 (chr8)	rs3889129 (chr8)	Ferhmann* + EGCUT*	cis-cis	known-new
NAPSB (chr19)	rs1405655 (chr19)	rs7577137 (chr2)	Ferhmann	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs471728 (chr11)	EGCUT	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs7213338 (chr17)	EGCUT	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs2351458 (chr4)	EGCUT*	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs9509428 (chr13)	EGCUT*	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs10937361 (chr3)	Ferhmann	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs17719594 (chr14)	Ferhmann	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs1401098 (chr12)	Ferhmann	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs1843357 (chr8)	Ferhmann + EGCUT	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs6718480 (chr2)	Ferhmann + EGCUT*	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs6926382 (chr6)	Ferhmann + EGCUT*	cis-trans	known-new
TMEM149 (chr19)	rs8106959 (chr19)	rs914940 (chr1)	Ferhmann + EGCUT*	cis-trans	known-new
TMEM149 (chr19)	rs807491 (chr19)	rs7254601 (chr19)	Ferhmann* + EGCUT*	cis-cis	known-known
XAF1 (chr17)	rs1533031 (chr17)	rs12591171 (chr15)	Ferhmann	cis-trans	known-new

Table 1: The 20 most significant interaction terms from both replication sets. * denotes Bonferroni level significance in the named data set.