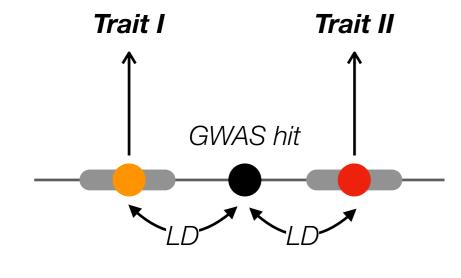
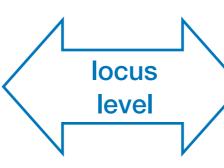
A Linkage "Spurious" pleiotropy

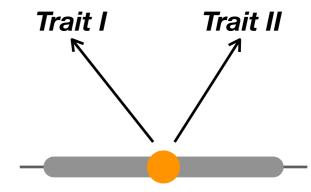
GWAS hit is in LD with causal variants in two distinct loci (pathway is different).





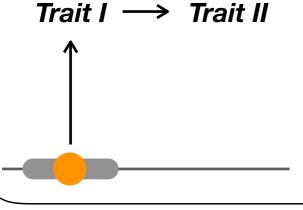
C Biological "True" pleiotropy

Causal variant(s) colocolizes in same locus.

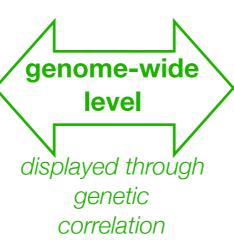


B Causality "Mediated" pleiotropy

Mediated pleiotropy



A causal variant effects trait B through an effect on trait A.



Confounding

Pleiotropy through shared confounding

