## **EWAS** and GWAS of same trait With great power comes great correlation No correlation expected **SNPs SNPs** EWAS and GWAS EWAS and GWAS CpGs CpGs trait trait No correlation expected **SNPs** Confounder **EWAS** and GWAS CpGs trait **EWAS and GWAS of different traits** With great power comes great correlation -No correlation expected scenario unlikely!!! Confounder and SNP EWAS trait or **GWAS** trait CpG confounder CpG **EWAS** trait SNP **GWAS** trait Little correlation expected EWAS trait or CpG confounder Many other traits **SNP GWAS** trait