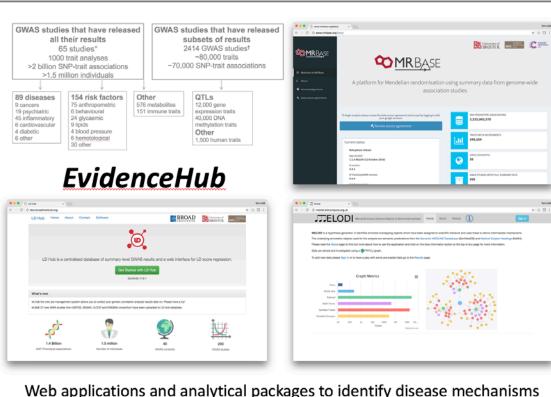


## Jean Golding Institute for data-intensive research

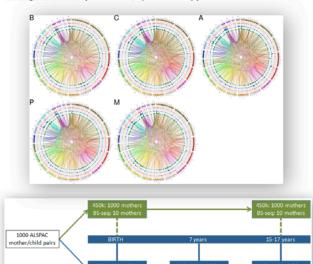


**Genetics of DNA methylation** 8,000,000 genetic variants vs 395,625 methylated CpGs



- ⇒ 3 trillion tests
- ⇒ 3400 CPU hours

Bonferonni p=0.05/(3x1012)p=1.7x10-14



Web applications and analytical packages to identify disease mechanisms and causal pathways using results from large-scale genetic studies.



Tom Gaunt, Reader in Bioinformatics MRC Integrative Epidemiology Unit

