

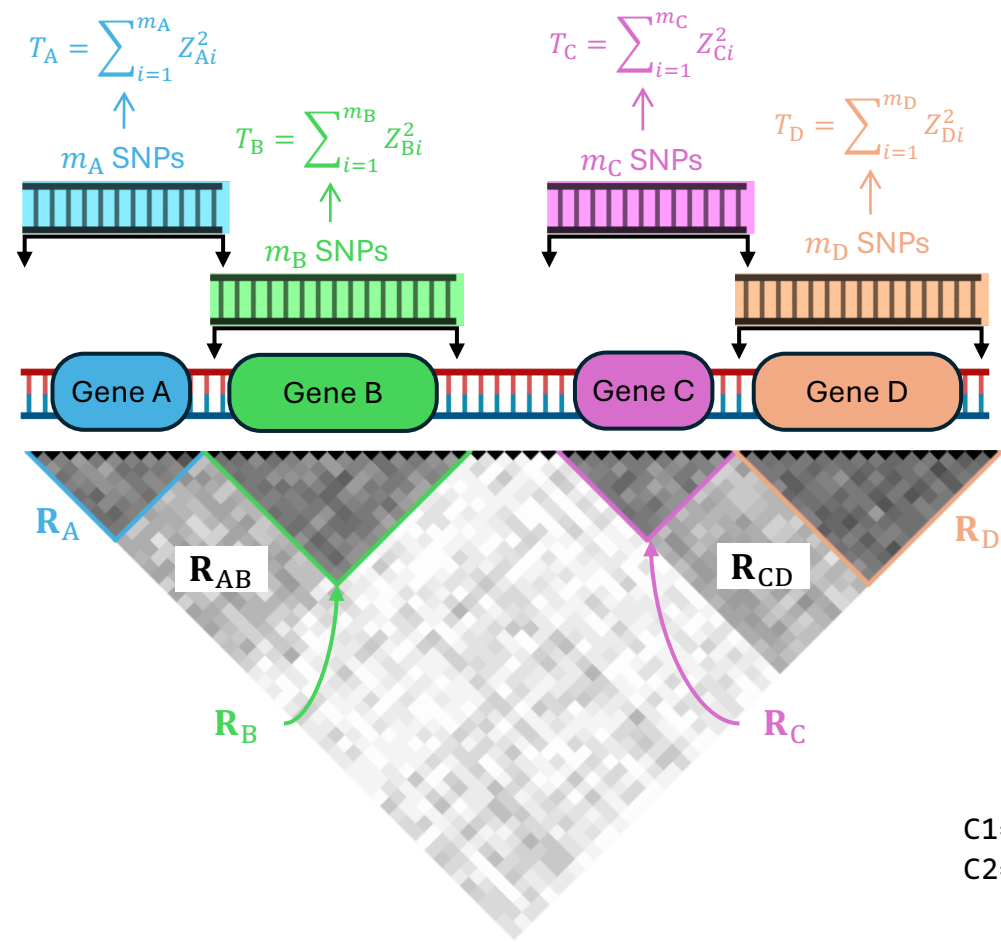


Phenotype 1

SNP	Z-statistic	EA
rs1	1.2	G
rs2	0.5	A
rs3	-2.3	G
...
rs99	5.6	T

Phenotype 2

SNP	Z-statistic	EA
rs1	0.6	G
rs2	1.1	T
rs3	-1.1	C
...
rs99	2.4	A



trait1

Gene	pval	m	gent_sigma2_h0	gent_test_statistic
A	5E-3	m_A	$2\text{trace}(\mathbf{R}_A \mathbf{R}_A)$	T_A
B	2E-1	m_B	$2\text{trace}(\mathbf{R}_B \mathbf{R}_B)$	T_B
C	7E-10	m_C	$2\text{trace}(\mathbf{R}_C \mathbf{R}_C)$	T_C
D	6E-12	m_D	$2\text{trace}(\mathbf{R}_D \mathbf{R}_D)$	T_D
...

trait2

Gene	pval	m	gent_sigma2_h0	gent_test_statistic
A	2E-2	m_A	$2\text{trace}(\mathbf{R}_A \mathbf{R}_A)$	T_A
B	1E-3	m_B	$2\text{trace}(\mathbf{R}_B \mathbf{R}_B)$	T_B
C	6E-8	m_C	$2\text{trace}(\mathbf{R}_C \mathbf{R}_C)$	T_C
D	9E-5	m_D	$2\text{trace}(\mathbf{R}_D \mathbf{R}_D)$	T_D
...

