

Single Nucleotide Polymorphism Spectral Decomposition (SNPSpD) - RESULTS

Matrix of pairwise LD correlations for your markers:

	1	2	3	4	5	6	7
1	1	0.99	0.83	0.99	0.59	-0.61	0.58
2	0.99	1	0.82	0.98	0.58	-0.60	0.57
3	0.83	0.82	1	0.82	0.69	-0.71	0.69
4	0.99	0.98	0.82	1	0.61	-0.63	0.60
5	0.59	0.58	0.69	0.61	1	-0.86	0.81
6	-0.61	-0.60	-0.71	-0.63	-0.86	1	-0.94
7	0.58	0.57	0.69	0.60	0.81	-0.94	1

Original (total) number of marker loci (M):

7

For factor 1 to M, original eigenvalues associated with the LD correlation matrix:

1 5.4433
2 1.0652
3 0.2104
4 0.2009
5 0.0496
6 0.0231
7 0.0074

Variance of the observed eigenvalues:

3.9753

Effective number of independent marker loci [Meff]:

3.5926

Experiment-wide significance threshold required to keep Type I error rate at 5%:

0.0139175361883280

SELECT A SUBSET OF SNPs WHILE OPTIMISING INFORMATION:

For factor 1 to M, Eigenvalues and Proportion of Variance, after Varimax Rotation:

1 3.2469 0.4638
2 2.4722 0.3532
3 0.5970 0.0853
4 0.6016 0.0859
5 0.0516 0.0074
6 0.0231 0.0033
7 0.0076 0.0011

Principal component coefficients for varimax-rotated matrix:

- Columns represent factors (principal components) 1 to M

- Rows represent SNP 1 to M

	SNP	1	2	3	4	5	6	7
1	t-5491c	-0.9302	0.2761	-0.1856	0.1379	-0.0060	0.0006	0.0702
2	a-5466c	-0.9306	0.2684	-0.1753	0.1364	-0.0068	-0.1030	-0.0438
3	t-3892c	-0.6147	0.4071	-0.6495	0.1857	-0.0044	0.0007	0.0001
4	a-240t	-0.9191	0.3040	-0.1578	0.1572	-0.0051	0.1116	-0.0274
5	t-1237c	-0.3071	0.6602	-0.1735	0.6631	-0.0049	0.0009	0.0001
6	g2215a	0.3291	-0.8843	0.1646	-0.2256	0.1781	-0.0007	-0.0002
7	4656ct	-0.3004	0.9208	-0.1671	0.1193	0.1404	0.0020	-0.0002

Factor "loadings" after varimax rotation:

- Columns represent factors 1 to M

- Rows represent SNP 1 to M

- SNPs contributing the MOST to each rotated factor are designated by a "1"

	SNP	1	2	3	4	5	6	7
1	t-5491c	0	0	0	0	0	0	1
2	a-5466c	1	0	0	0	0	0	0
3	t-3892c	0	0	1	0	0	0	0
4	a-240t	0	0	0	0	0	1	0
5	t-1237c	0	0	0	1	0	0	0
6	g2215a	0	0	0	0	1	0	0
7	4656ct	0	1	0	0	0	0	0

=> Select one SNP to represent either:

i. each factor,

ii. the factors with the largest Meff eigenvalues, or

iii. the factors explaining a selected proportion of variance.

If there are no results between the above two lines there must be a problem with your "ldmax" input files => please re-check. However, if you are 100% confident that your .pre and .map files are correct but cannot get any results, please email me, detailing your problem.

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