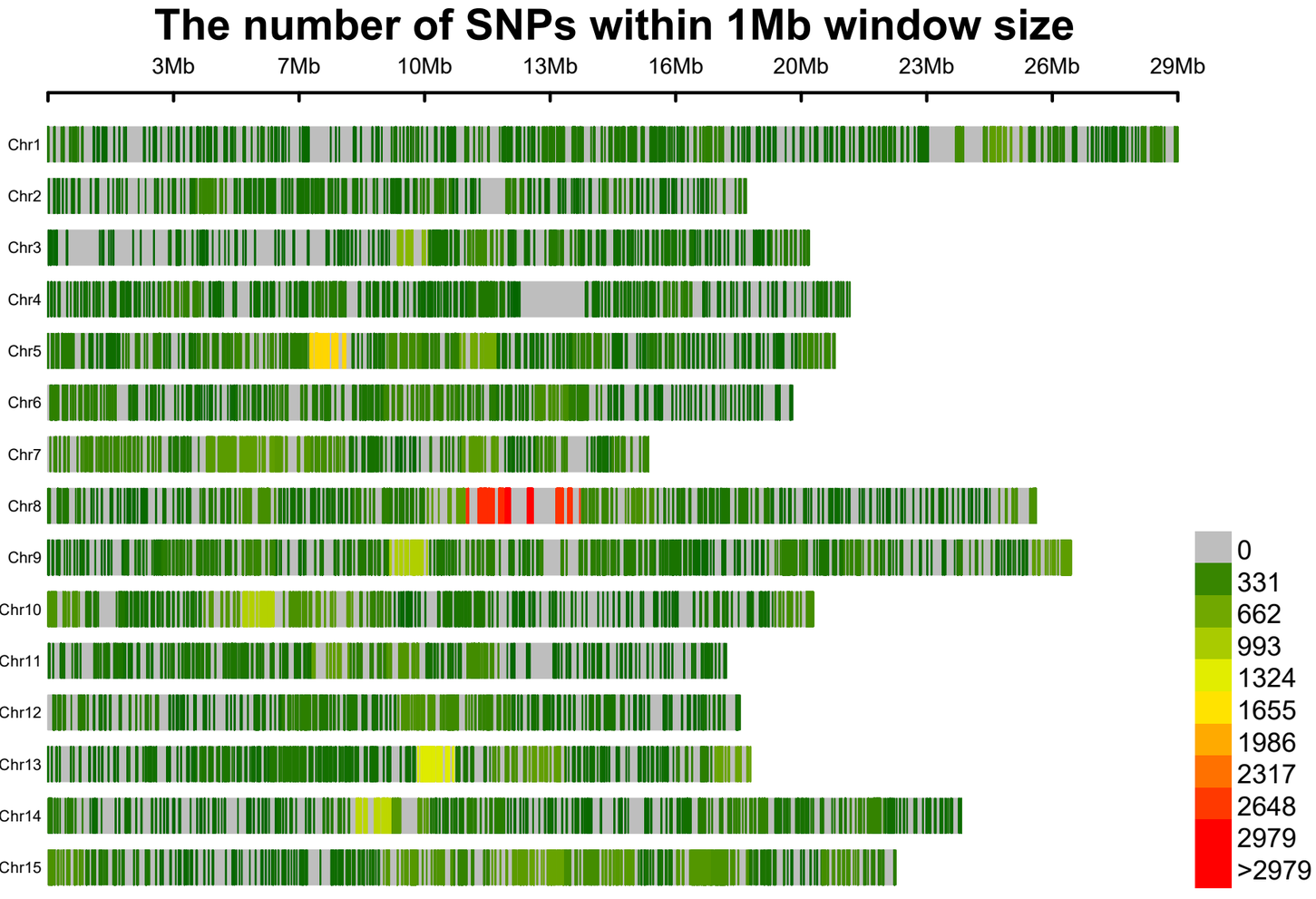
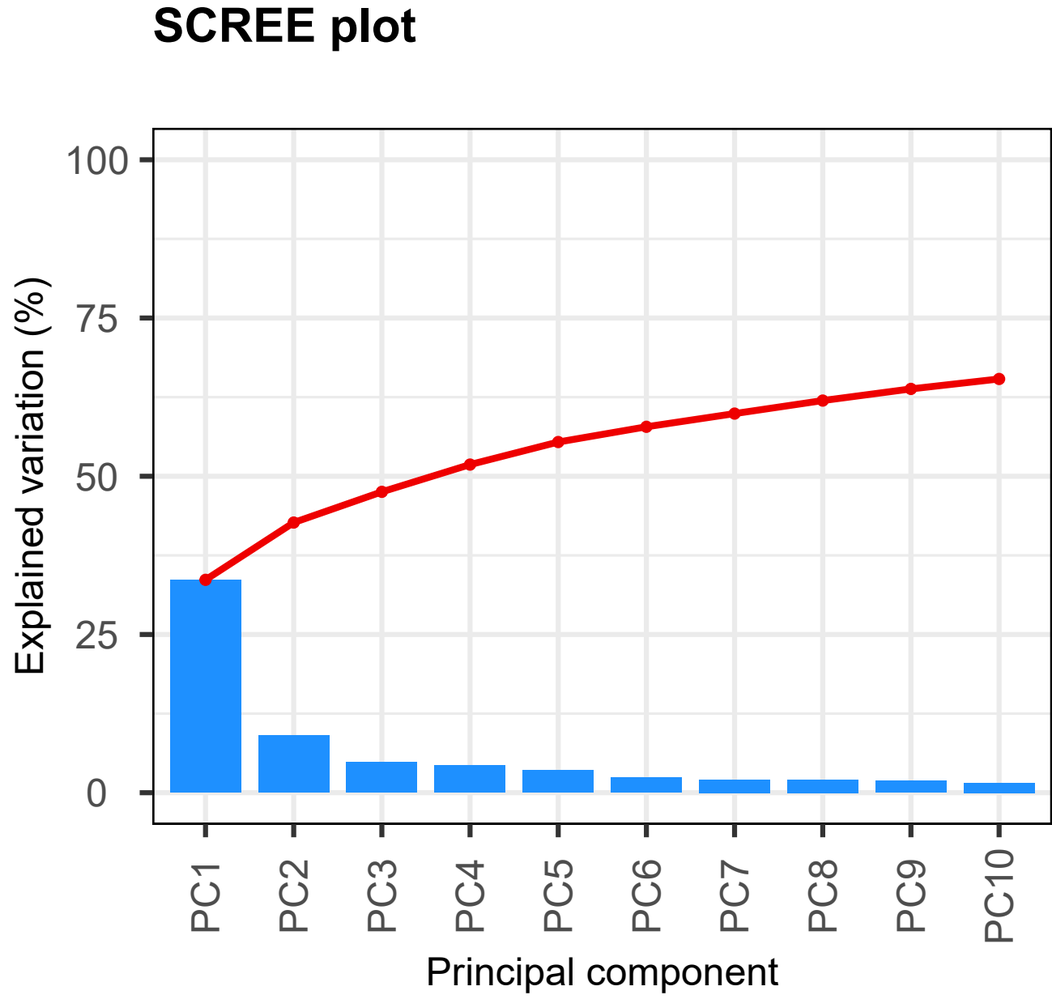
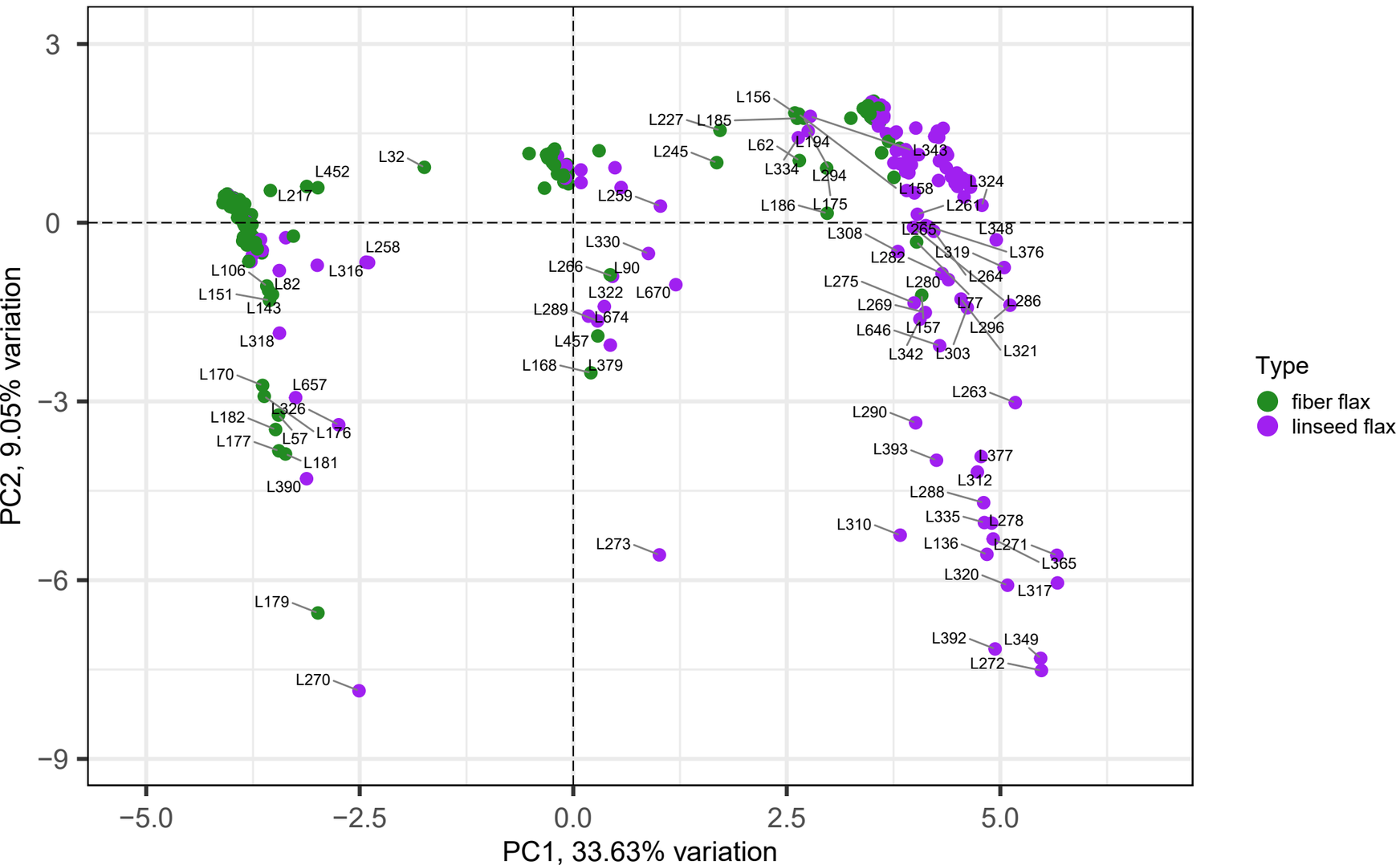
a)


The number of SNPs within 1Mb window size
3Mb
7Mb
10Mb
13Mb
16Mb
20Mb
23Mb
26Mb
29Mb
Chr1
Chr2
Chr3
Chr4
Chr5
Chr6
Chr7
Chr8
Chr9
Chr10
Chr11
Chr12
Chr13
Chr14
Chr15
0
331
662
993
1324
1655
1986
2317
2648
2979
>2979

b)


SCREE plot
Explained variation (%)
100
75
50
25
0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
Principal component

c)


PC2, 9.05% variation
PC1, 33.63% variation
3
0
−3
−6
−9
−5.0
−2.5
0.0
2.5
5.0
L156
L227
L185
L62
L194
L245
L343
L334
L294
L158
L324
L259
L186
L175
L261
L265
L348
L308
L319
L376
L282
L264
L275
L280
L269
L77
L286
L646
L157
L296
L342
L303
L321
L330
L266
L90
L322
L670
L289
L674
L457
L168
L379
L32
L452
L217
L258
L316
L106
L82
L151
L143
L318
L170
L657
L326
L182
L176
L177
L57
L181
L390
L273
L179
L270
L263
L290
L393
L377
L312
L288
L335
L278
L310
L136
L271
L365
L320
L317
L392
L349
L272
Type
fiber flax
linseed flax