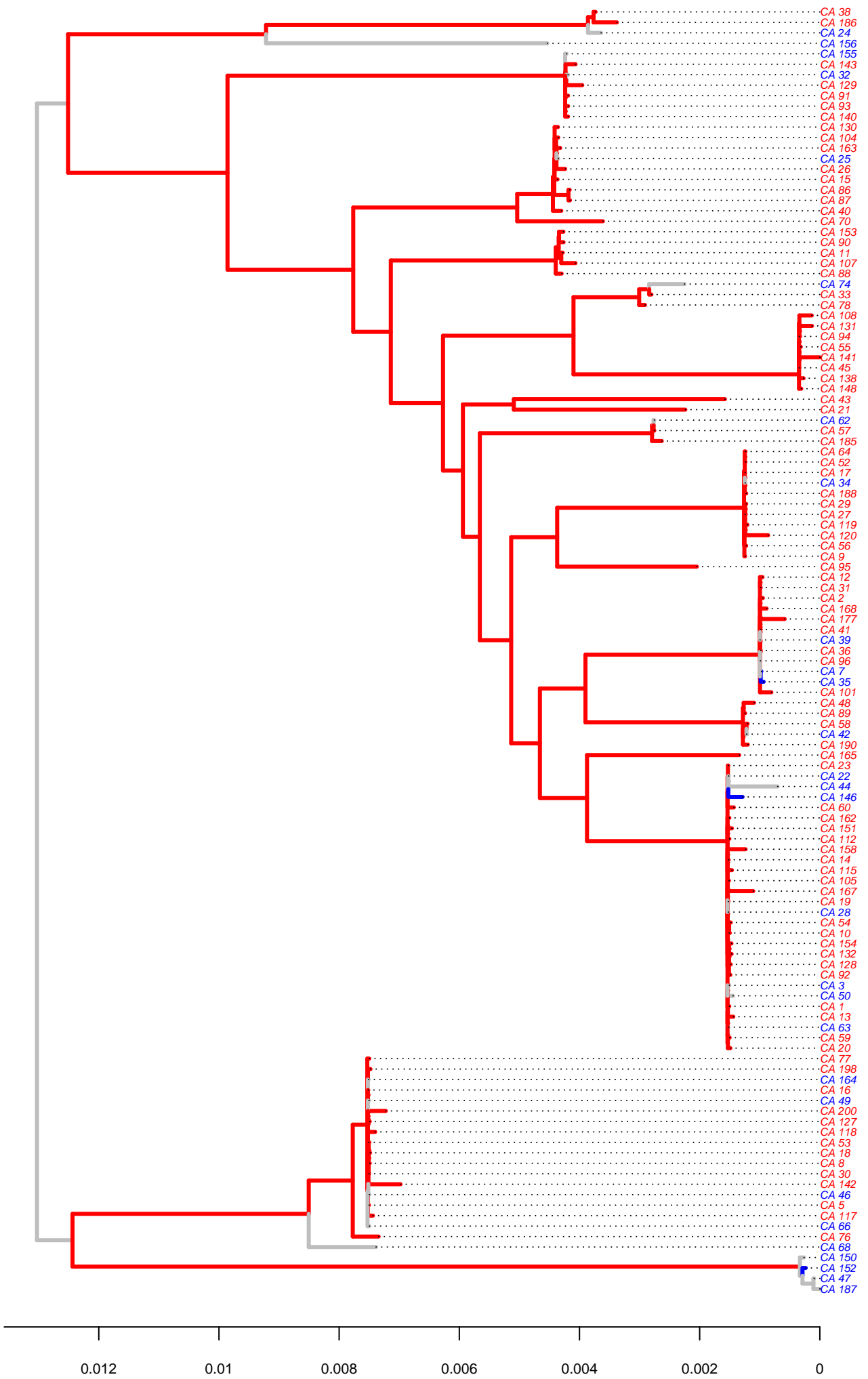# Phylogenetic tree

Manhattan plot
(terminal score)

genetic loci

terminal score

**Null distribution
(terminal score)**

no significant SNPs found

Empirical distribution
(terminal score)

no significant SNPs found

Density
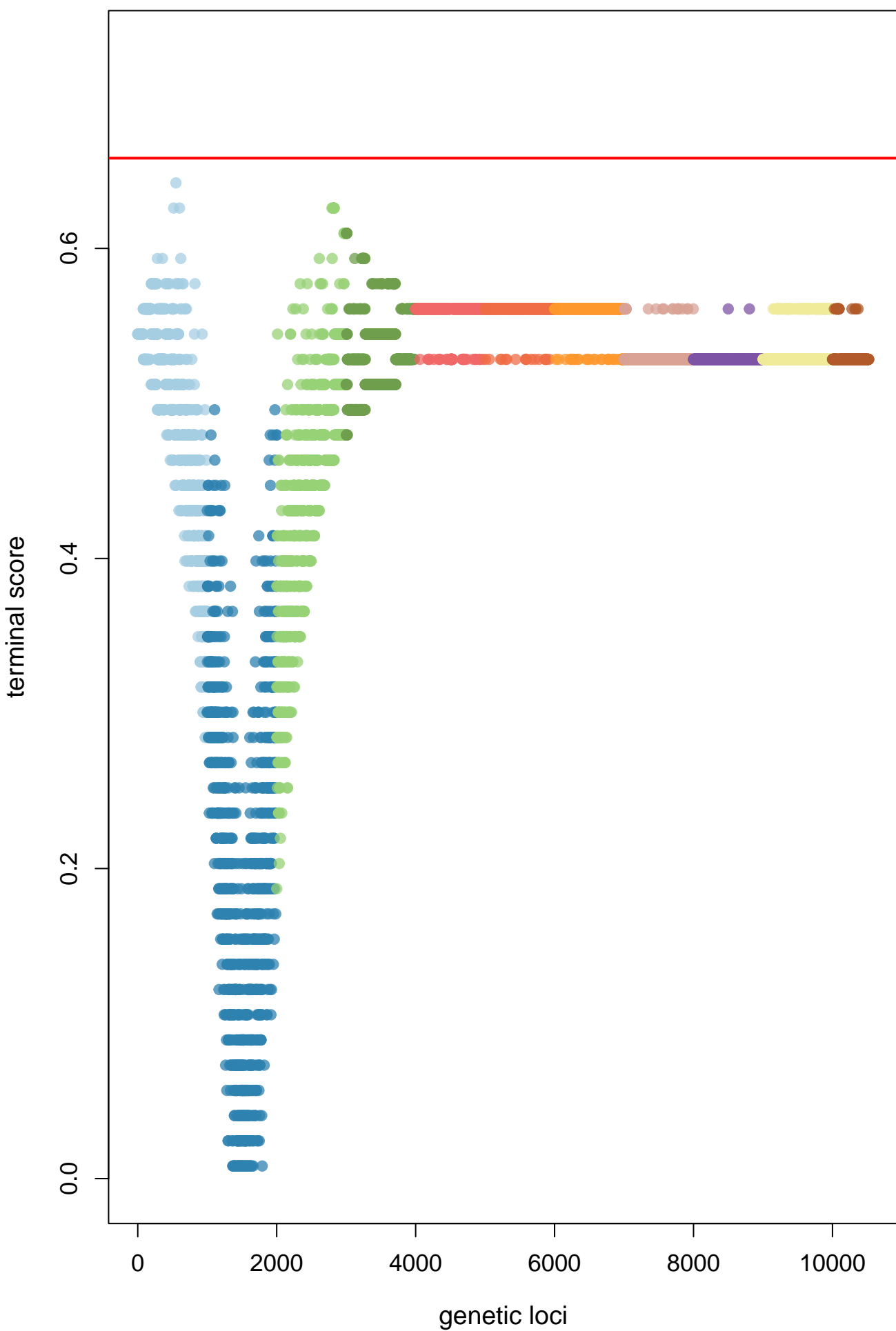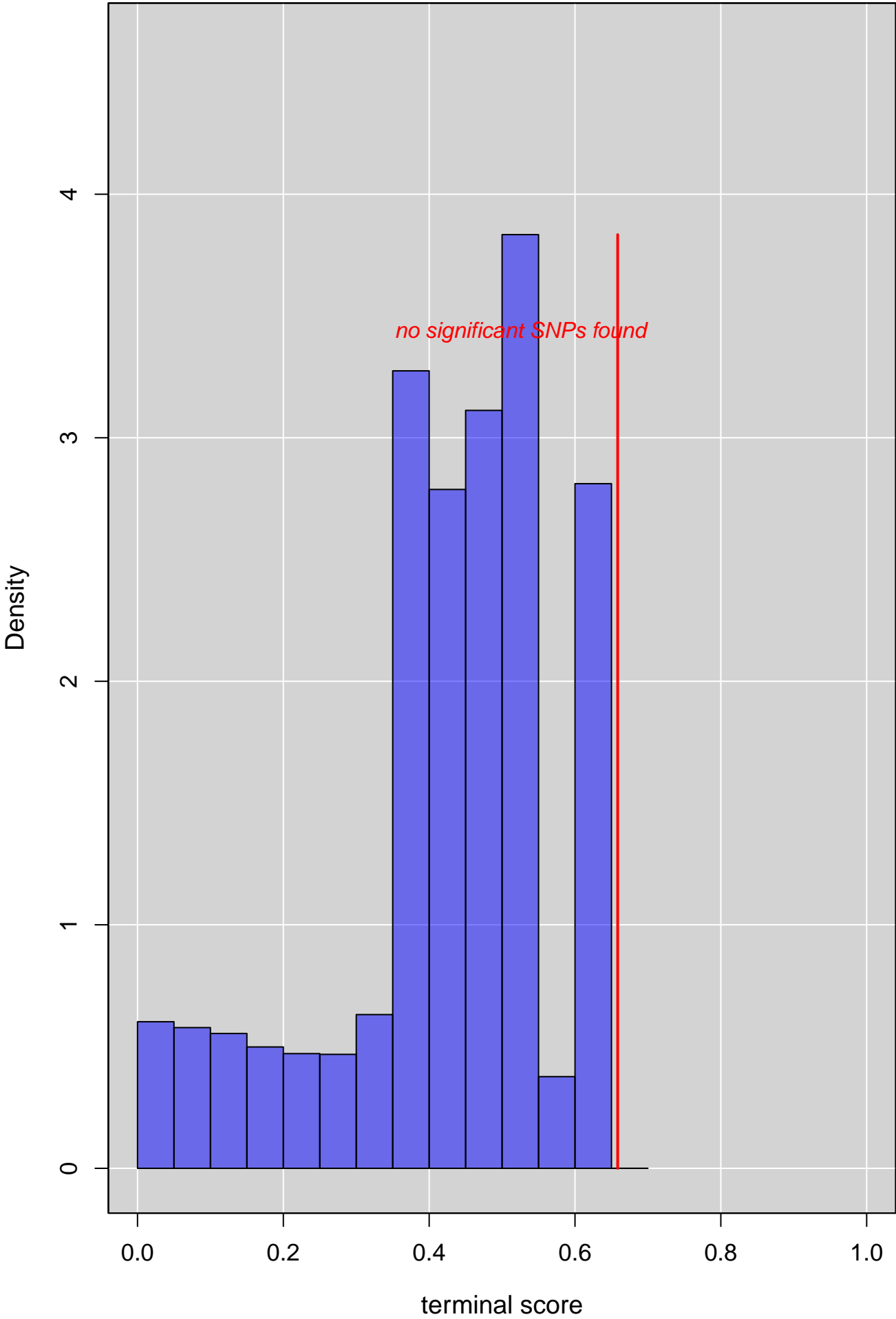
terminal score
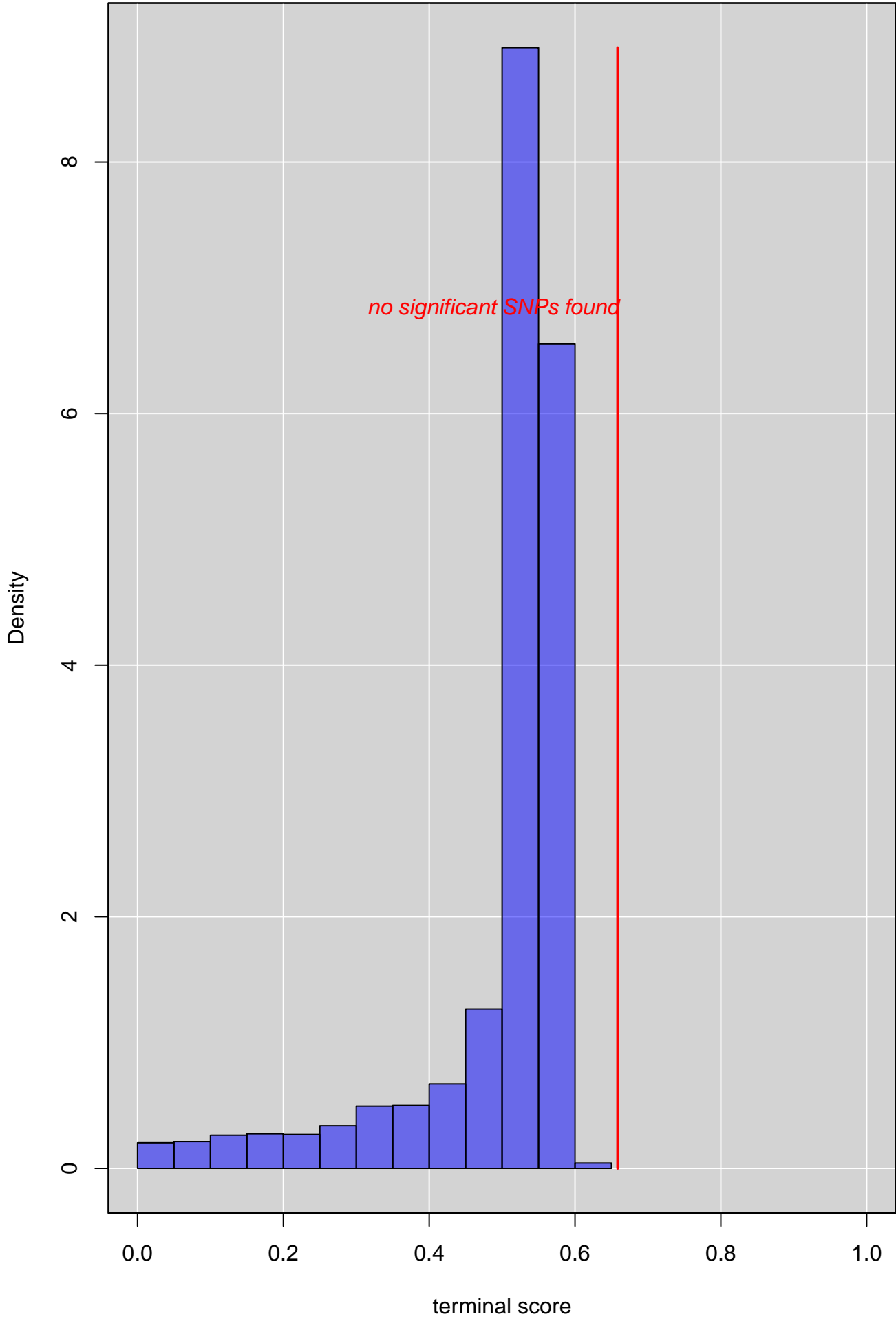
Manhattan plot
(simultaneous score)

**Null distribution
(simultaneous score)**

group_1815

group_5979

ktrB_2

group_27

group_1150

hlb_2

rhaR

group_2303

group_4077

pnp_2

group_1056

der

group_4307

hisC_2

ymcA

group_5977

group_359

guaC

gph

sdrD

Density
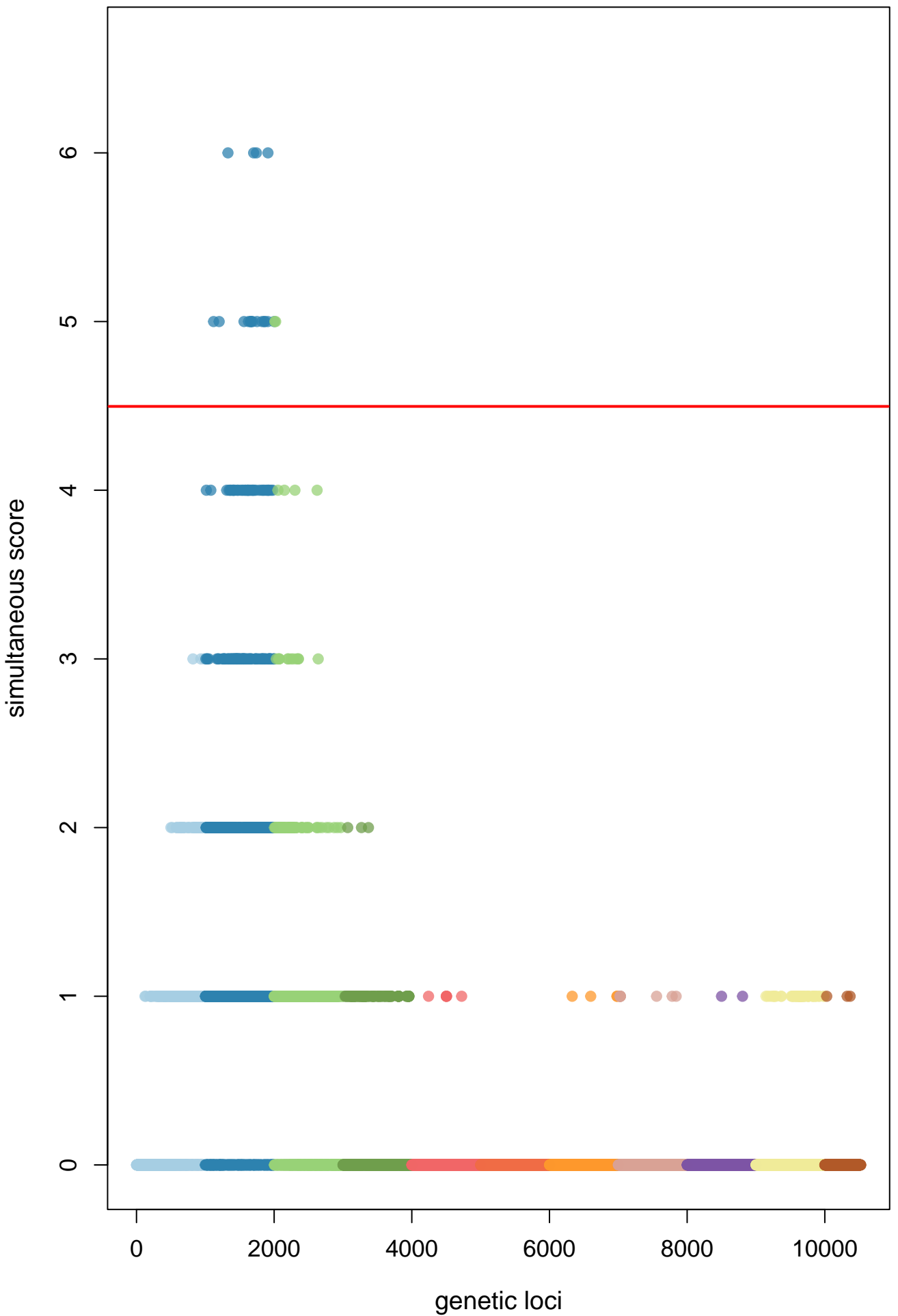
simultaneous score

**Empirical distribution
(simultaneous score)**

Density

simultaneous score

group_1815
group_5979
ktrB_2
group_27
group_1150
hlb_2
rhaR
group_2303
group_4077
pnp_2
group_1056
der
group_4307
hisC_2
ymcA
group_5977
group_359
guaC
gph
sdrD
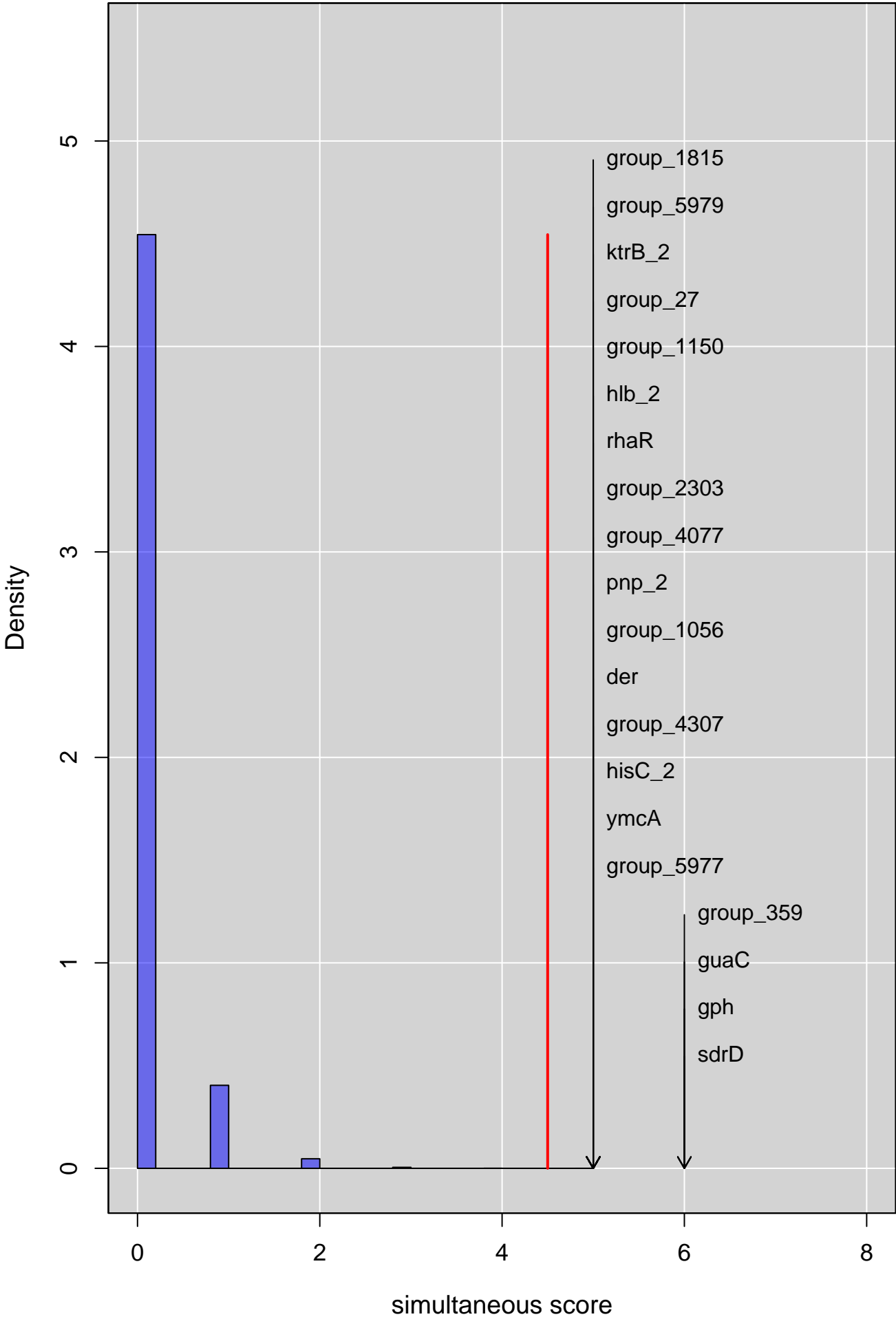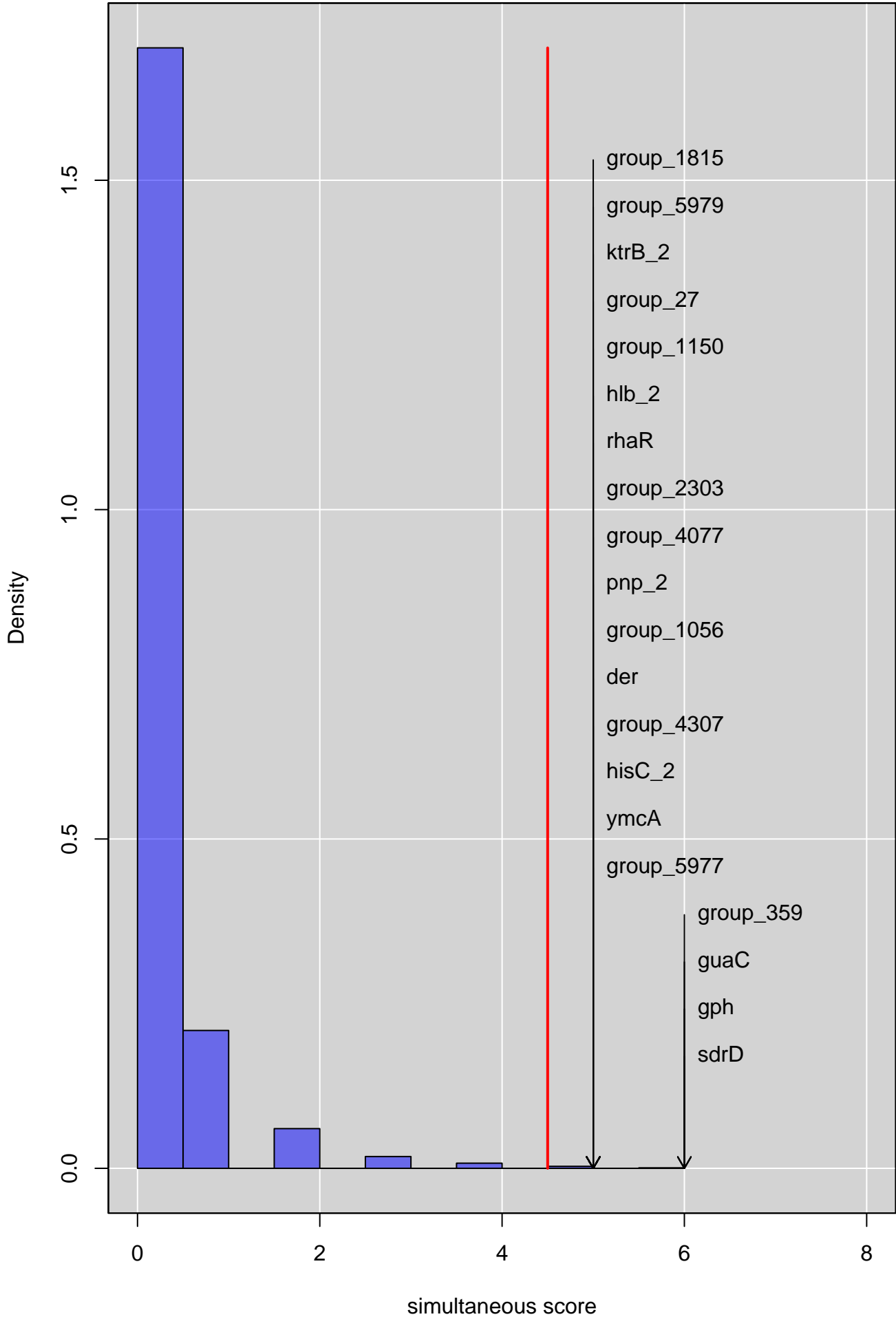
Manhattan plot
(subsequent score)

Null distribution
(subsequent score)

no significant SNPs found

Density

subsequent score

Empirical distribution
(subsequent score)

no significant SNPs found

Density

subsequent score