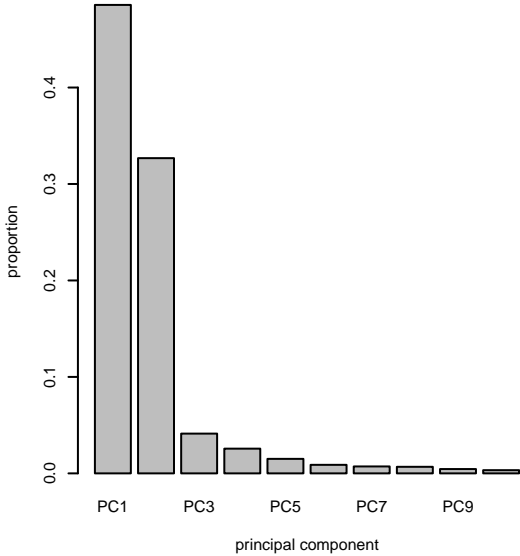


All autosomes

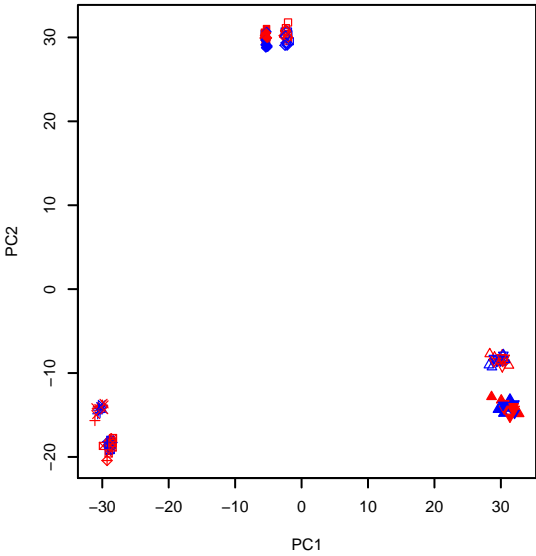
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, autosomes



all auto, PC1 vs PC2

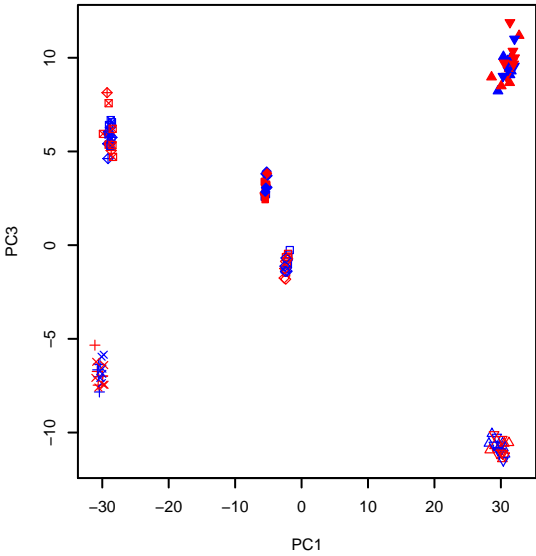


All autosomes

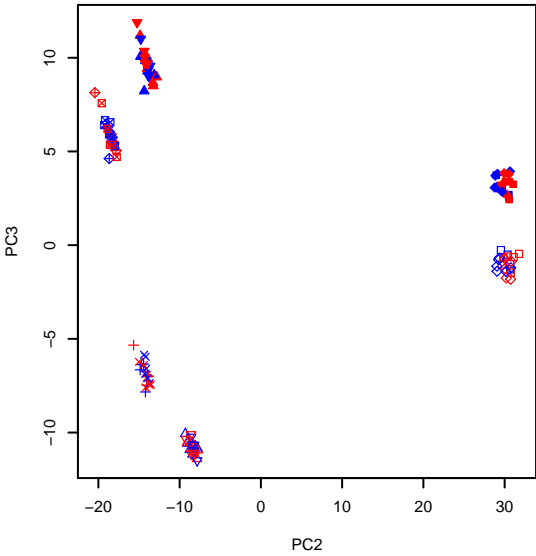
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

all auto, PC1 vs PC3



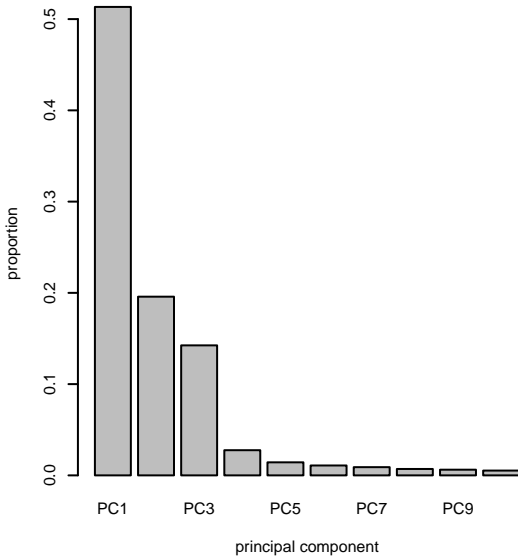
all auto, PC2 vs PC3



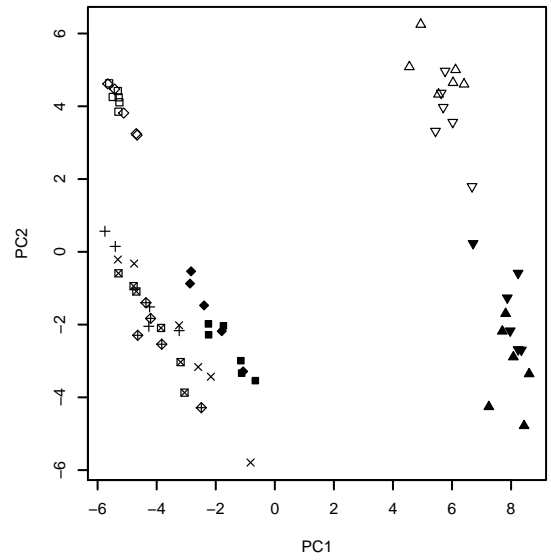
X chromosome

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, X chromosome

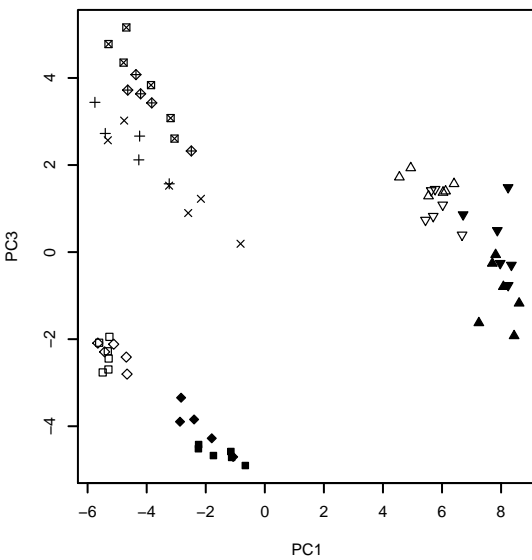


PC1 vs PC2

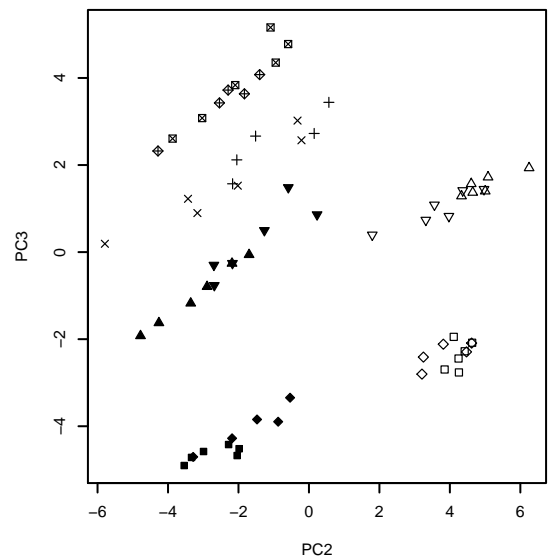


□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3



PC2 vs PC3

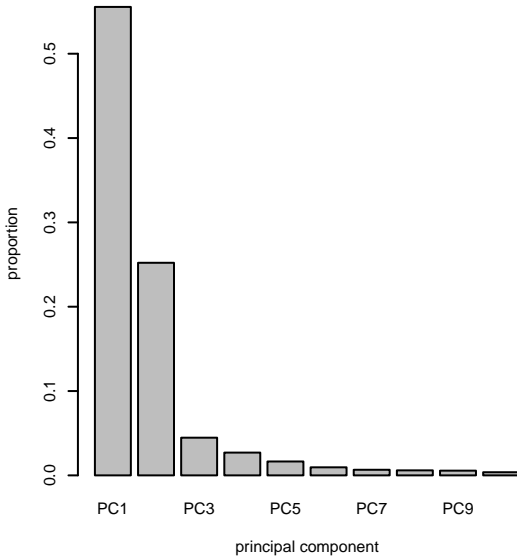


chr1 chromosome

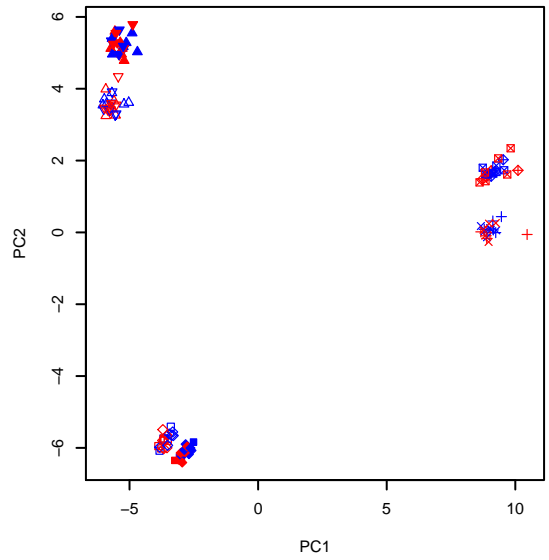
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr1



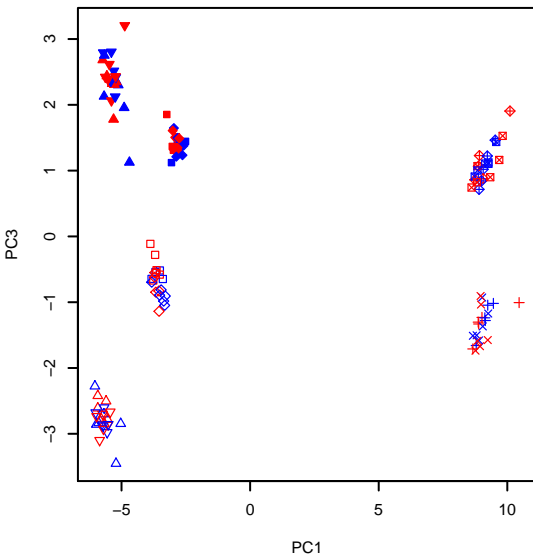
PC1 vs PC2, chromosome chr1



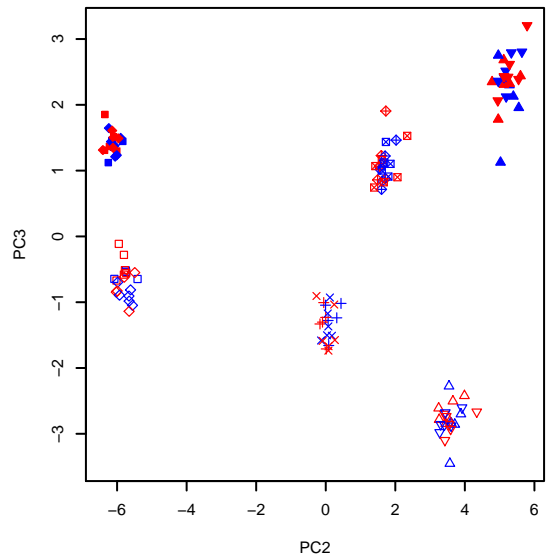
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr1



PC2 vs PC3, chromosome chr1

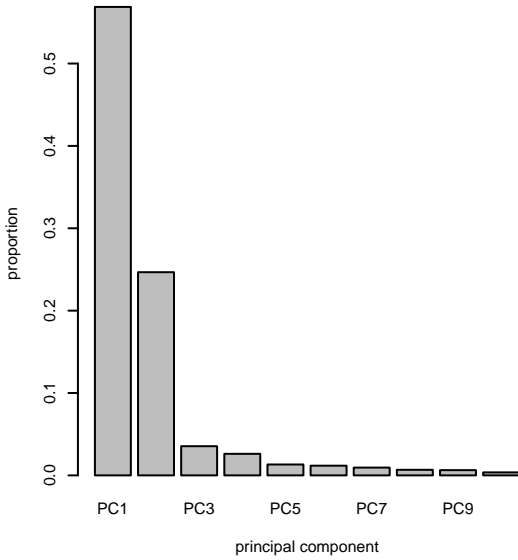


chr2 chromosome

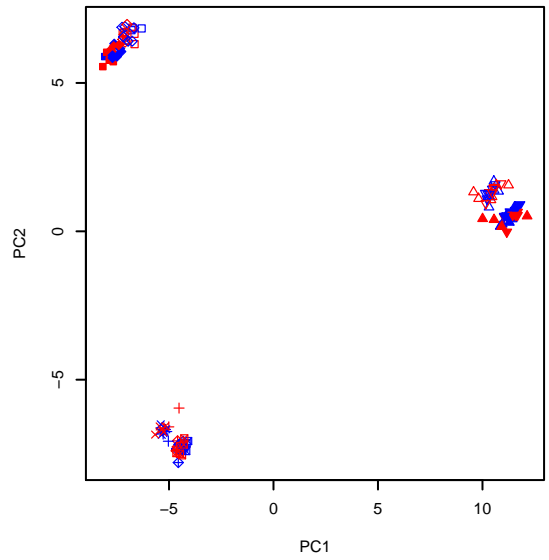
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr2



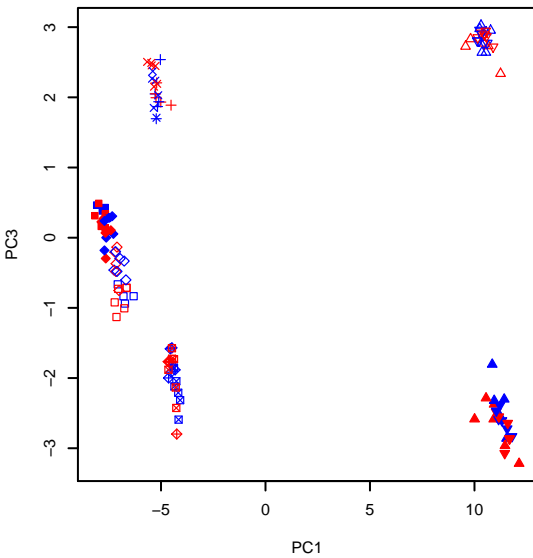
PC1 vs PC2, chromosome chr2



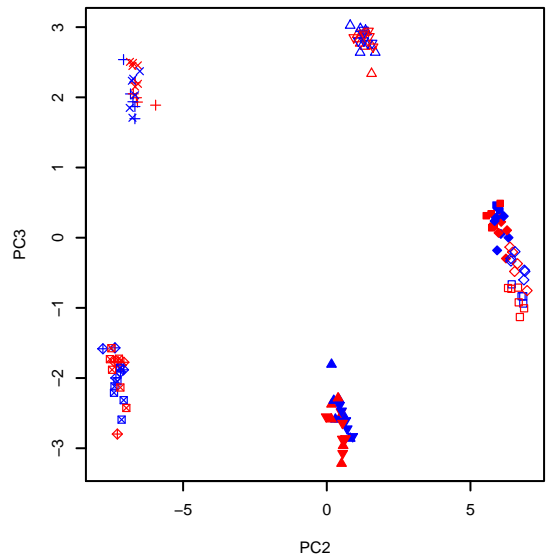
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr2



PC2 vs PC3, chromosome chr2

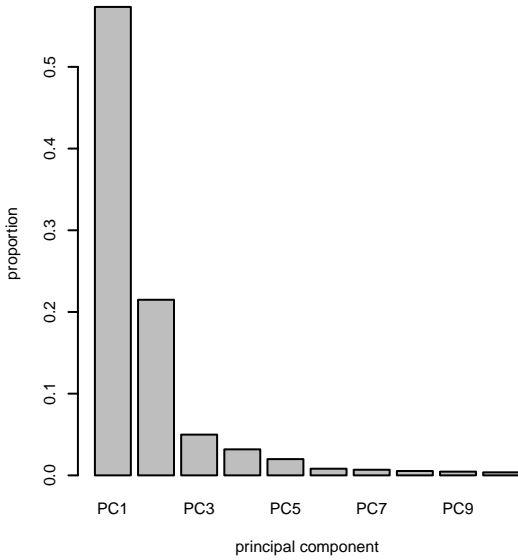


chr3 chromosome

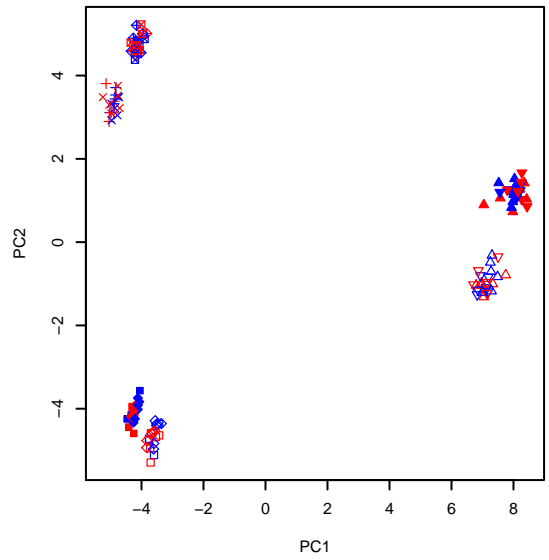
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr3



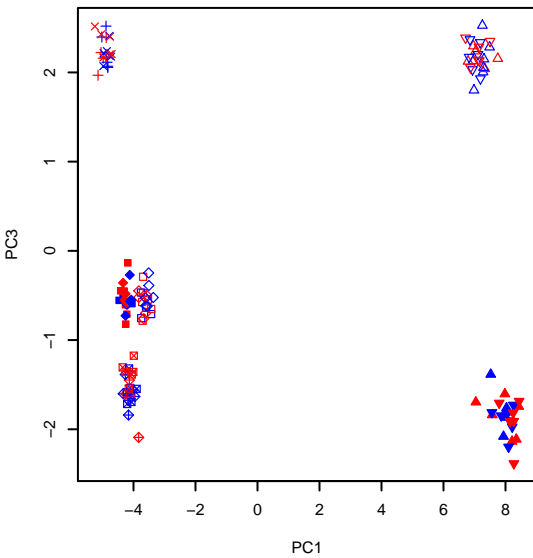
PC1 vs PC2, chromosome chr3



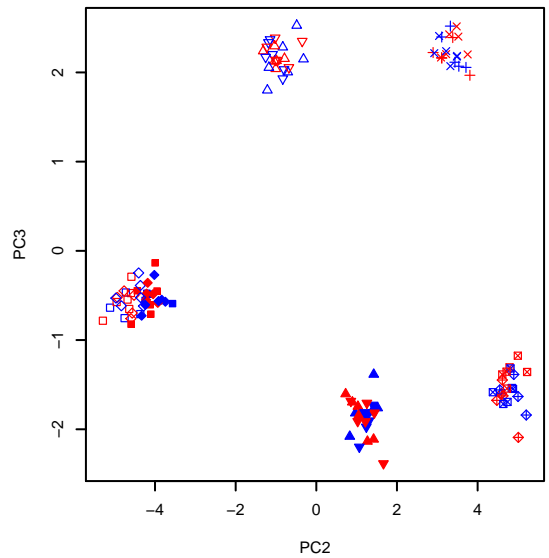
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr3



PC2 vs PC3, chromosome chr3

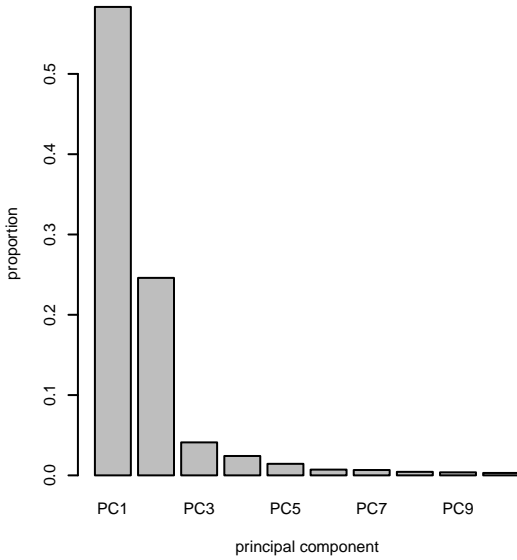


chr4 chromosome

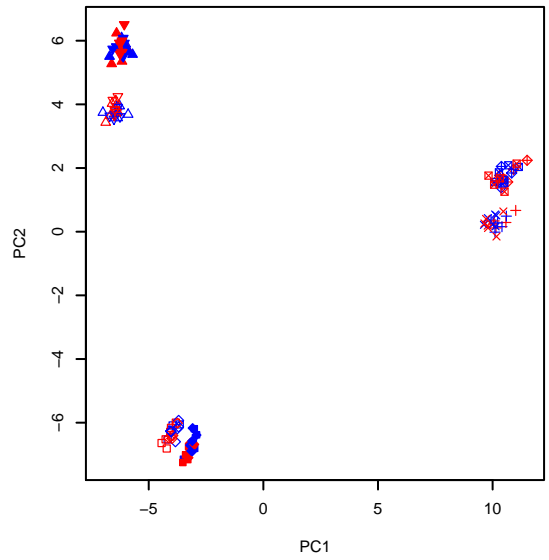
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr4



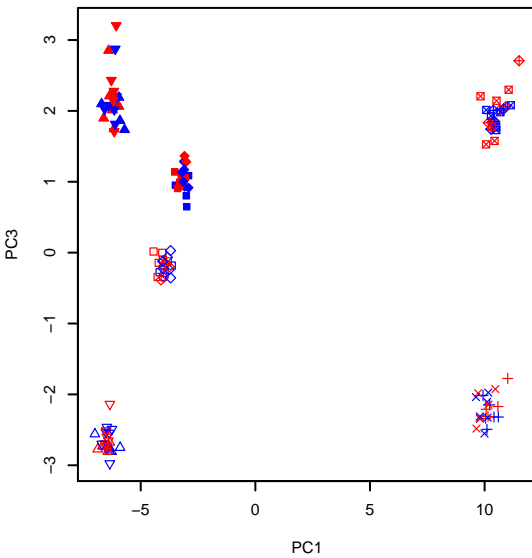
PC1 vs PC2, chromosome chr4



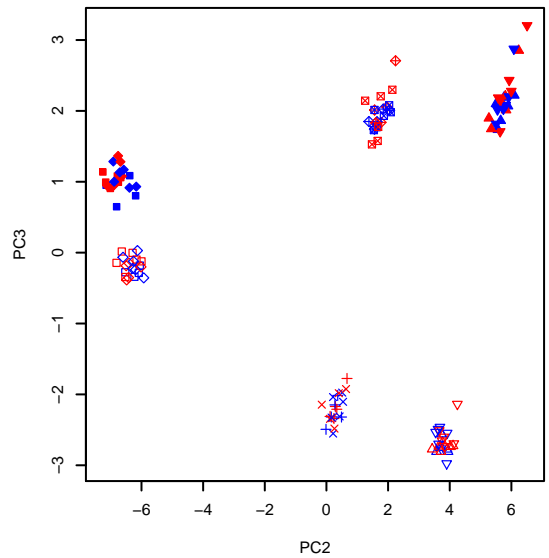
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr4



PC2 vs PC3, chromosome chr4

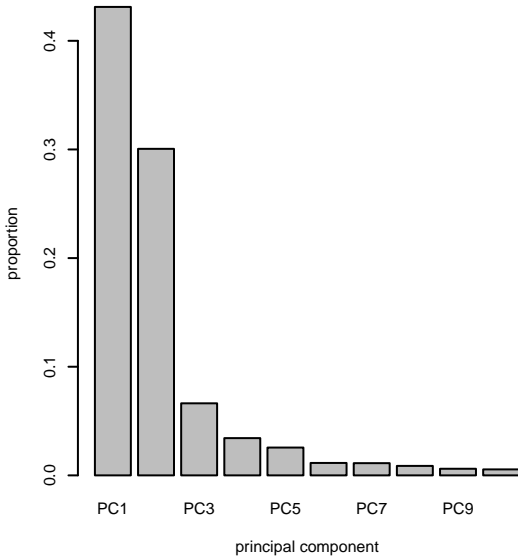


chr5 chromosome

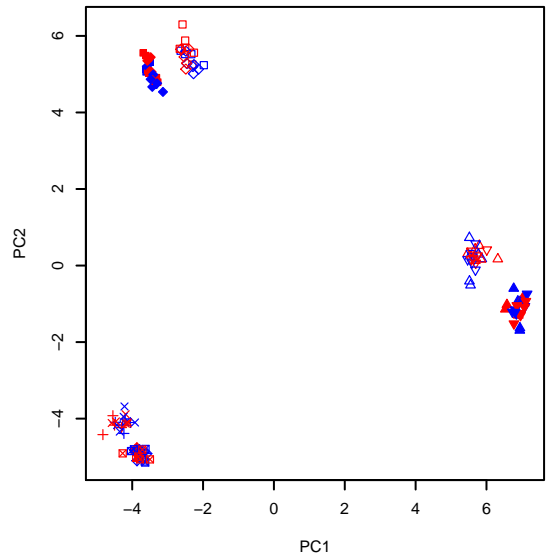
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr5



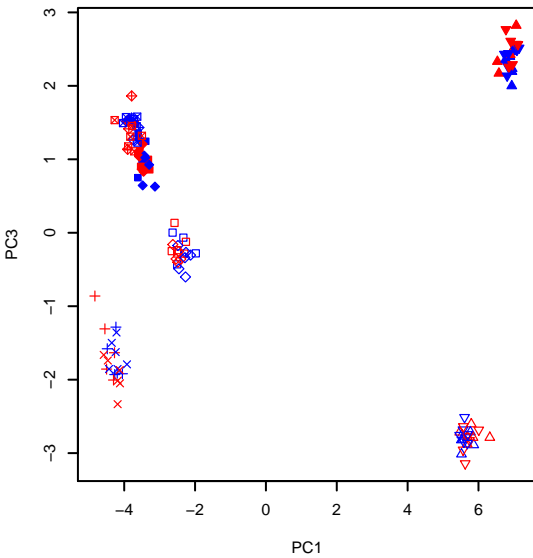
PC1 vs PC2, chromosome chr5



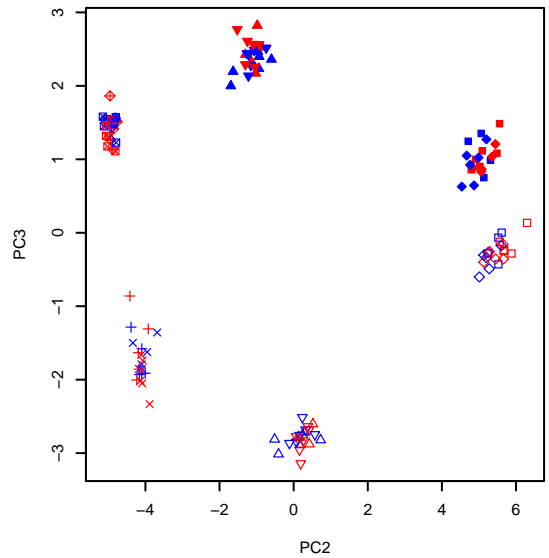
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr5



PC2 vs PC3, chromosome chr5

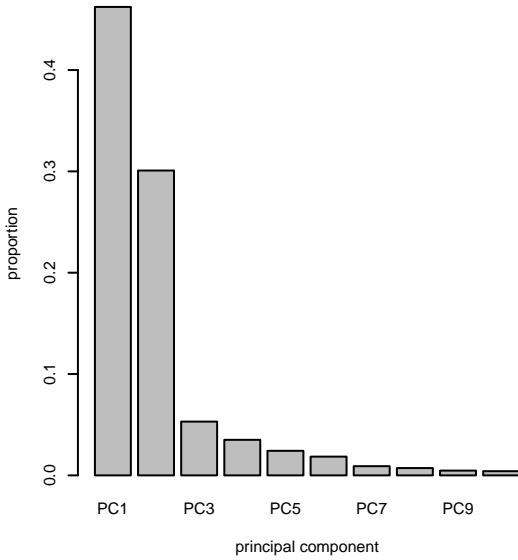


chr6 chromosome

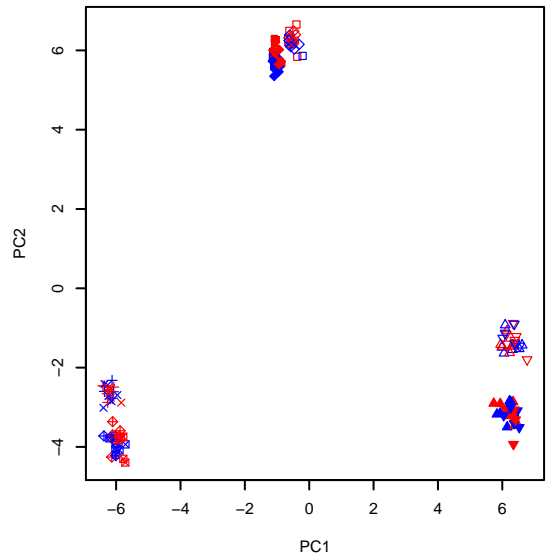
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr6



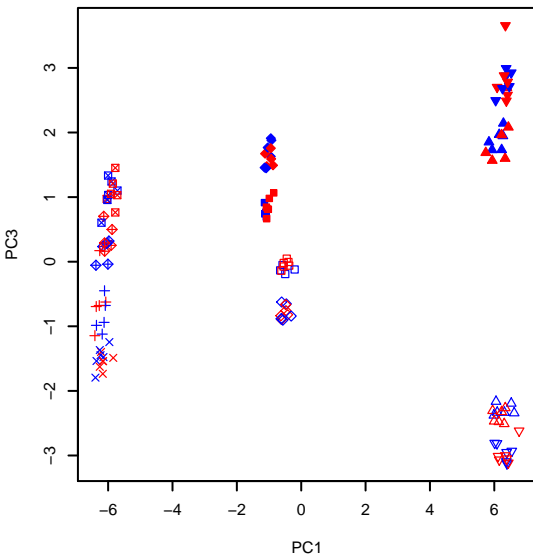
PC1 vs PC2, chromosome chr6



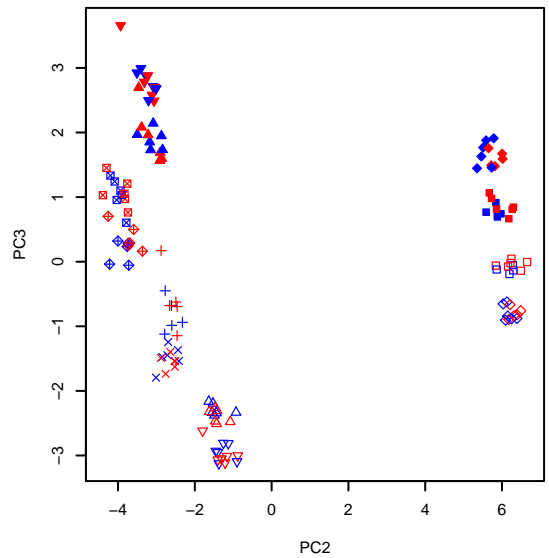
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr6



PC2 vs PC3, chromosome chr6

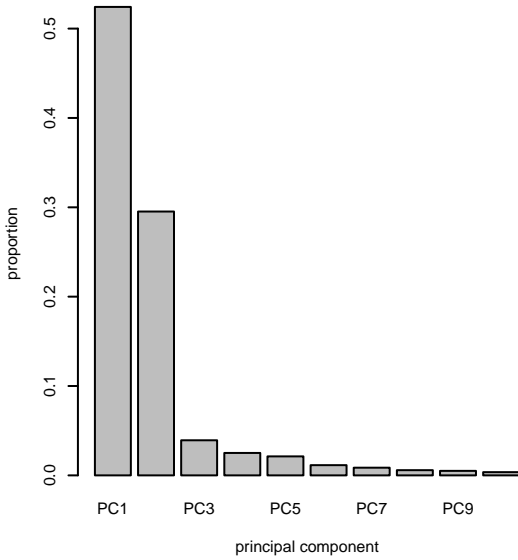


chr7 chromosome

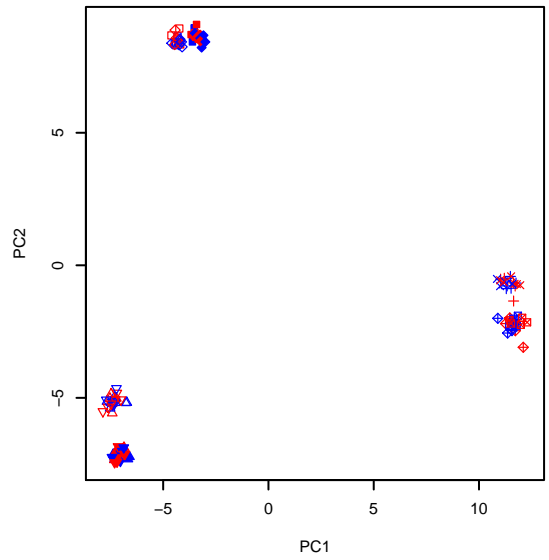
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr7



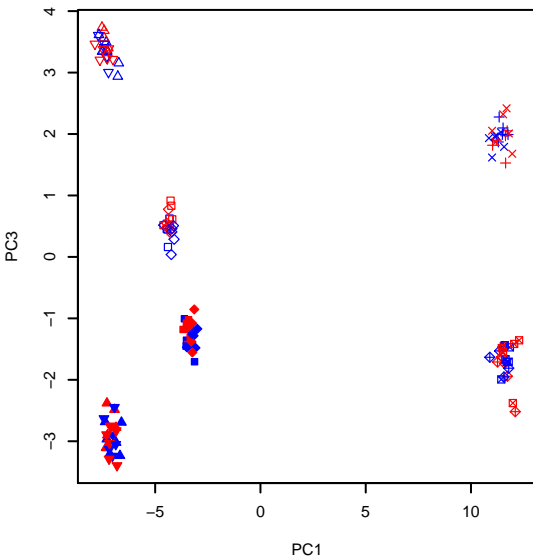
PC1 vs PC2, chromosome chr7



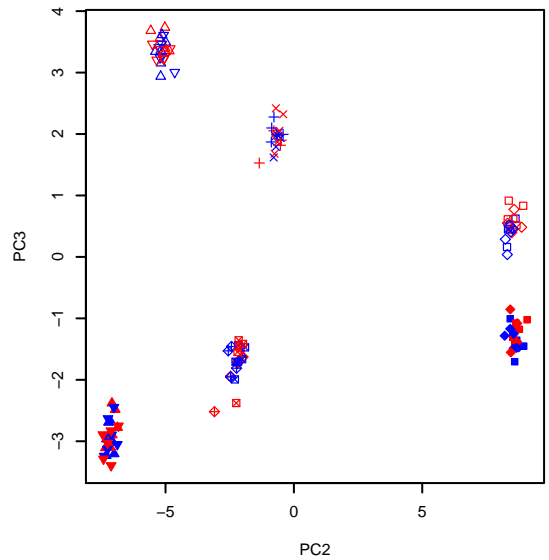
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr7



PC2 vs PC3, chromosome chr7

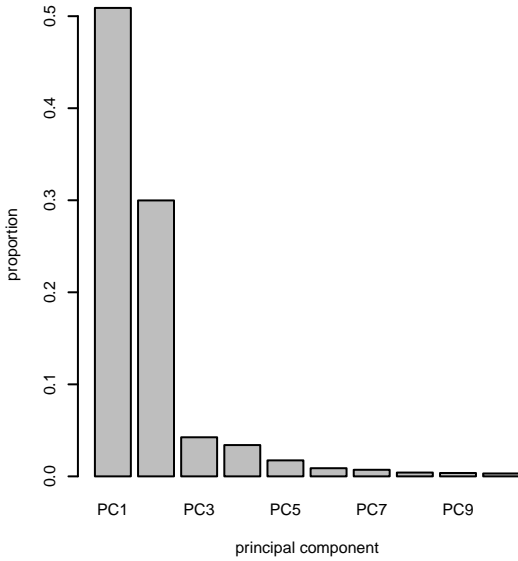


chr8 chromosome

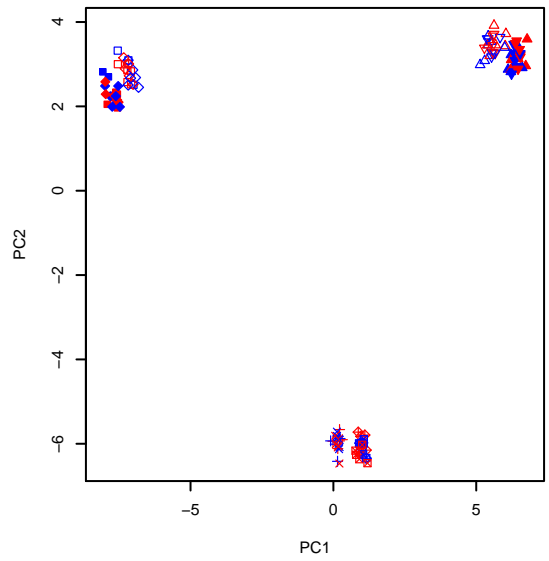
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr8



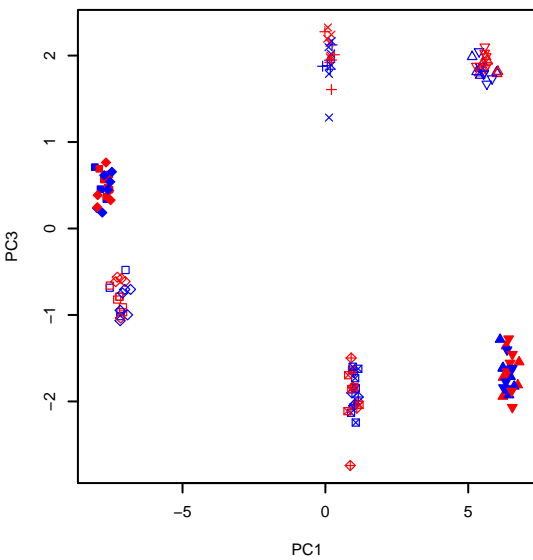
PC1 vs PC2, chromosome chr8



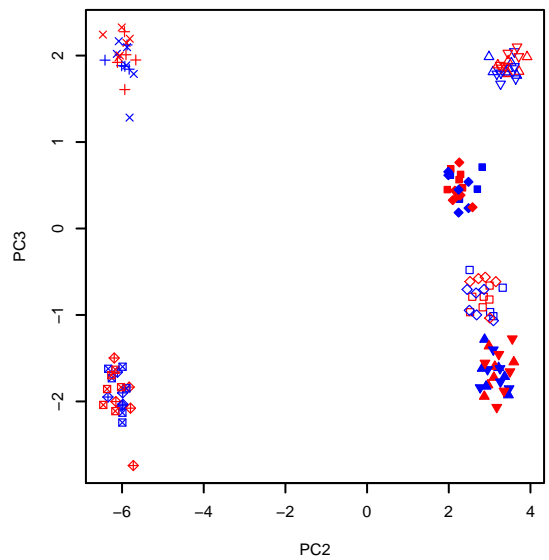
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr8



PC2 vs PC3, chromosome chr8

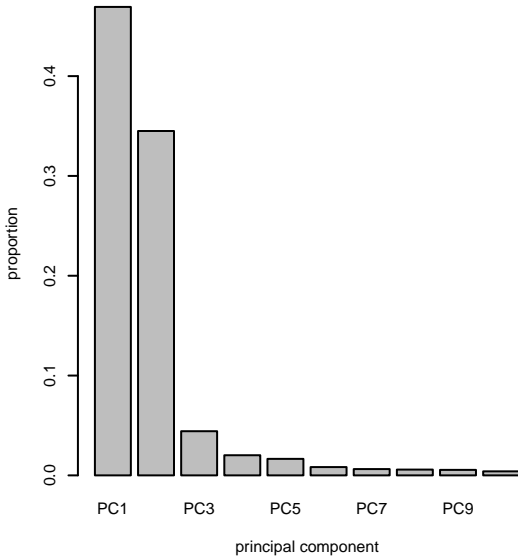


chr9 chromosome

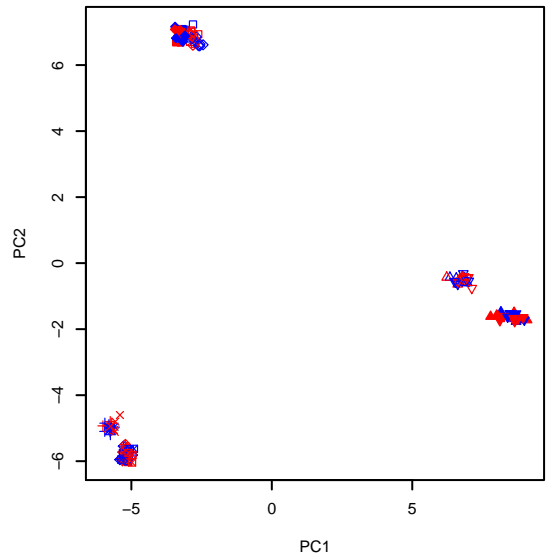
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr9



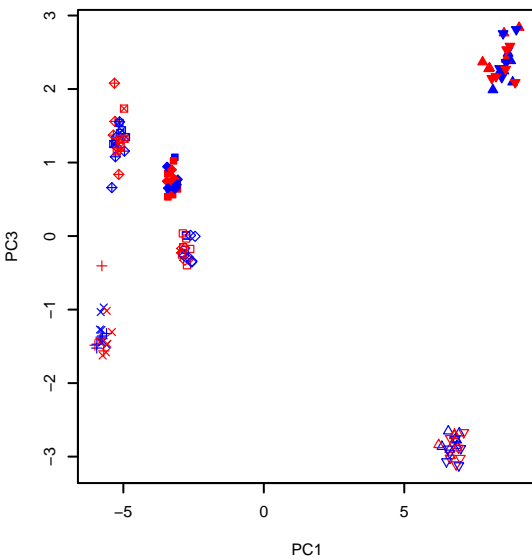
PC1 vs PC2, chromosome chr9



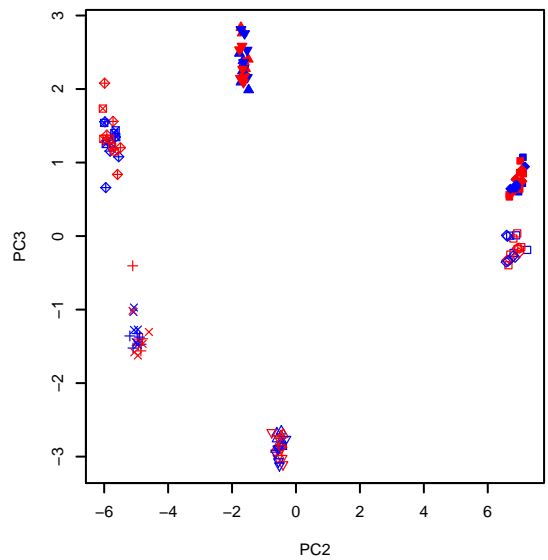
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr9



PC2 vs PC3, chromosome chr9

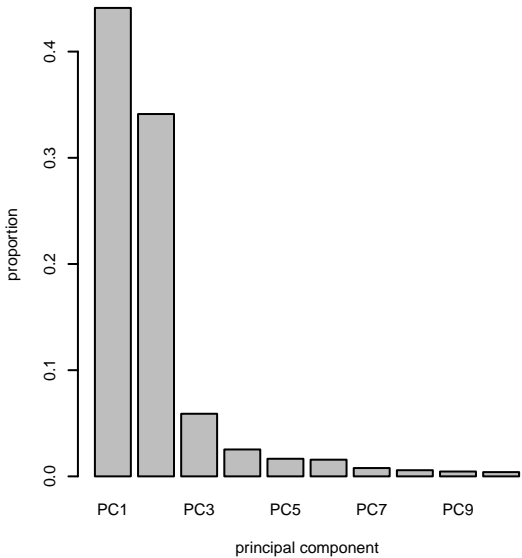


chr10 chromosome

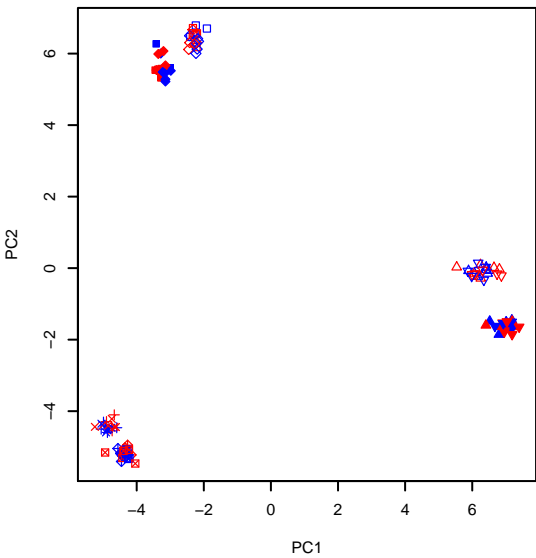
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr10



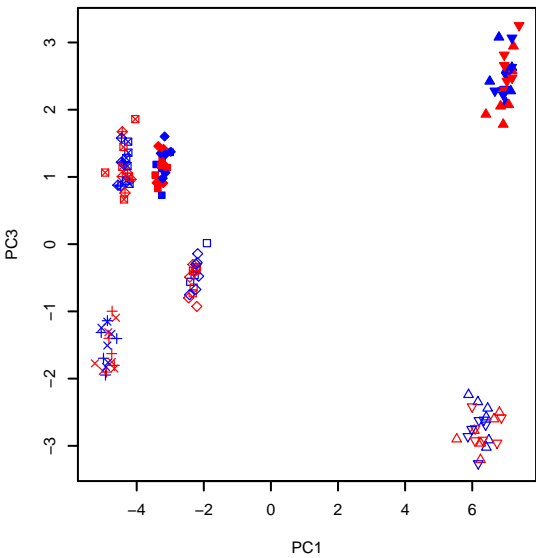
PC1 vs PC2, chromosome chr10



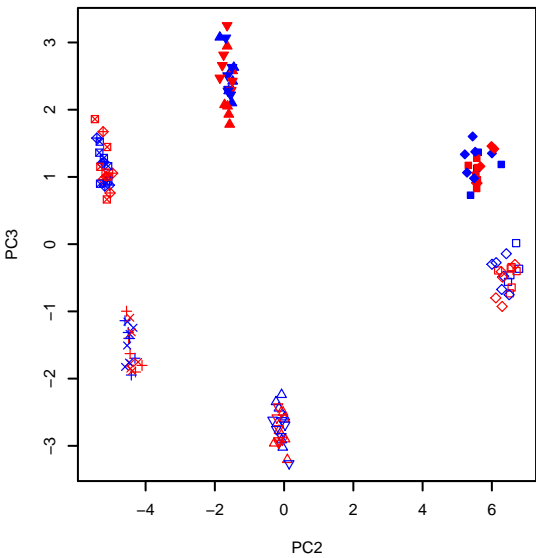
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr10



PC2 vs PC3, chromosome chr10

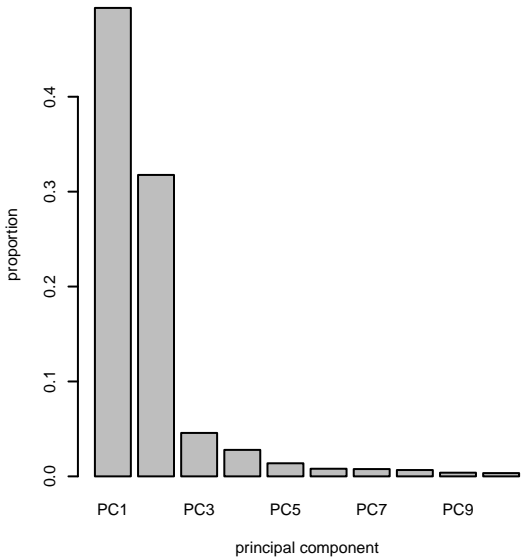


chr11 chromosome

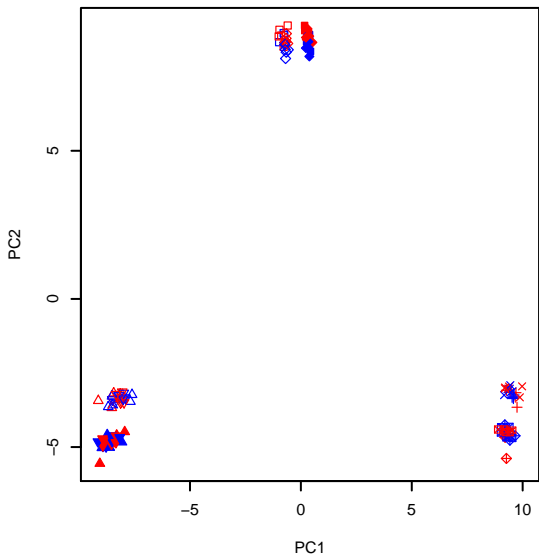
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr11



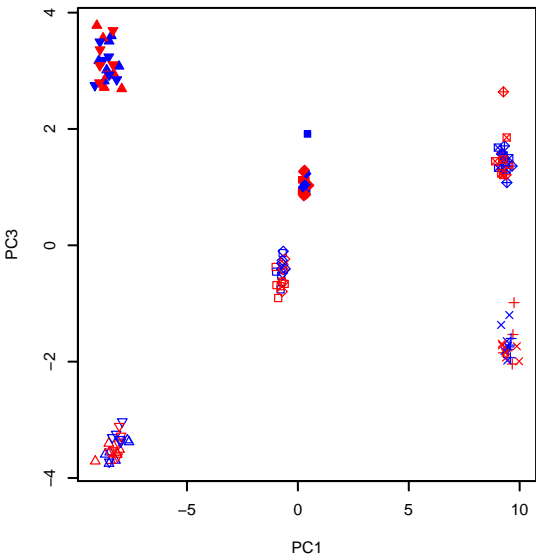
PC1 vs PC2, chromosome chr11



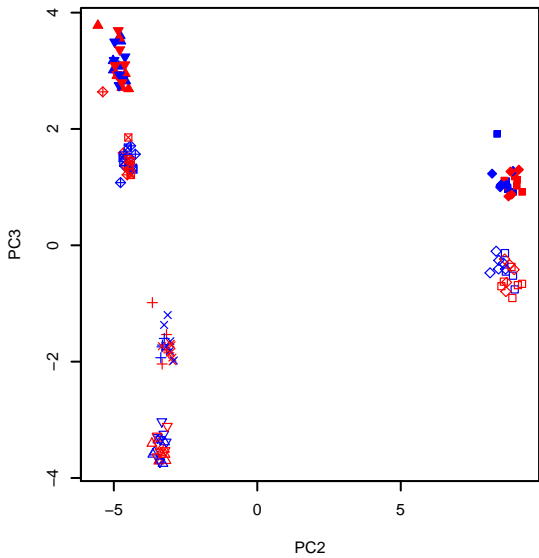
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr11



PC2 vs PC3, chromosome chr11

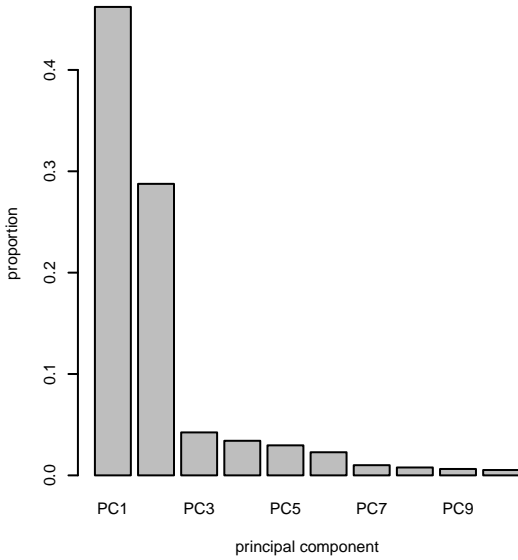


chr12 chromosome

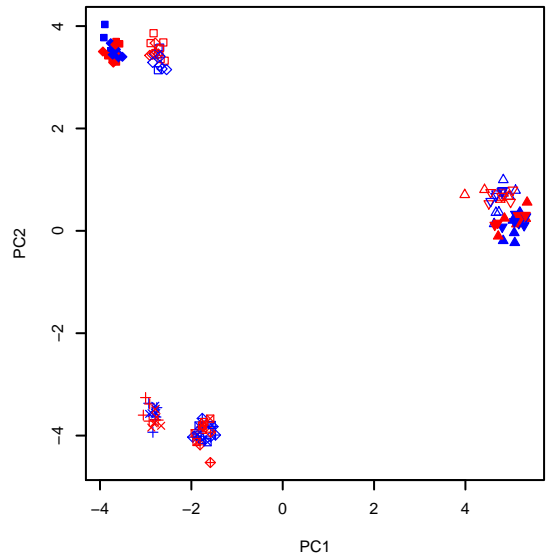
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr12



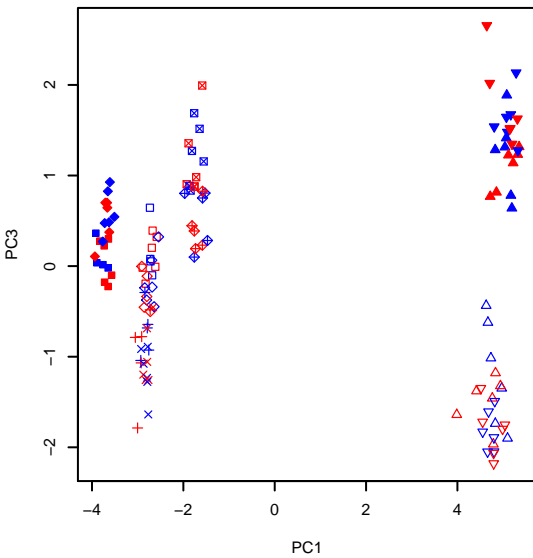
PC1 vs PC2, chromosome chr12



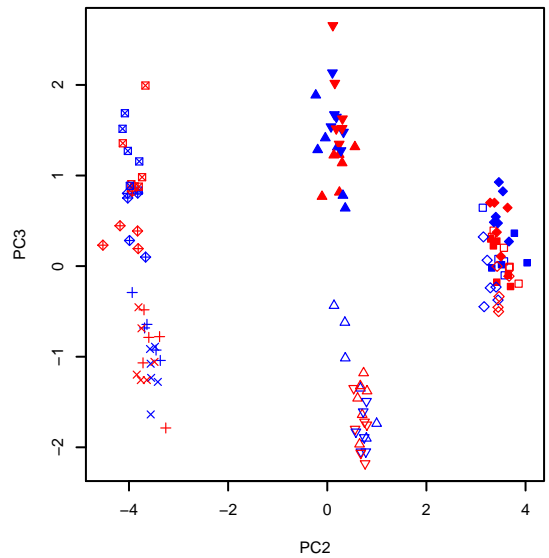
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr12



PC2 vs PC3, chromosome chr12

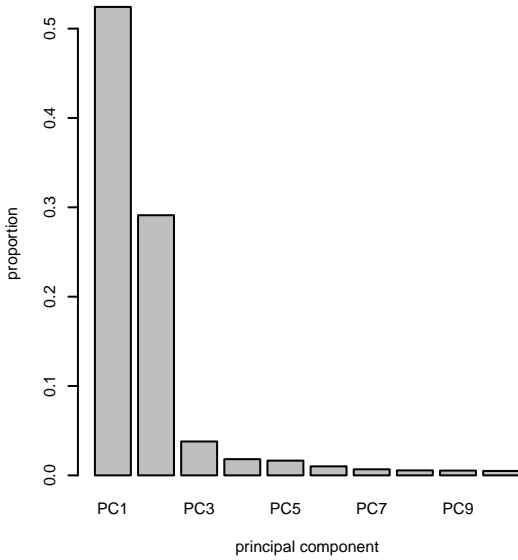


chr13 chromosome

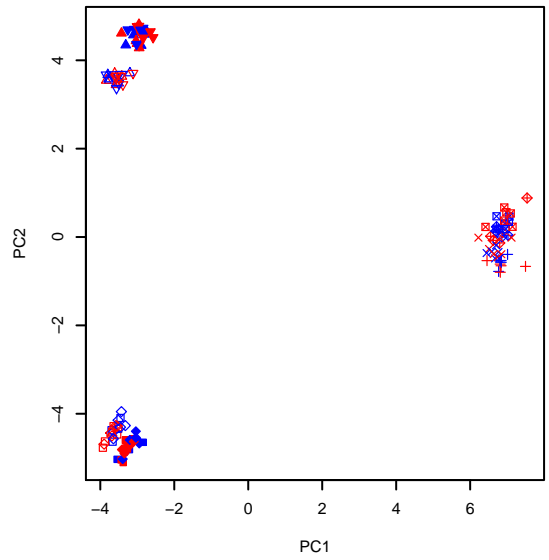
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr13



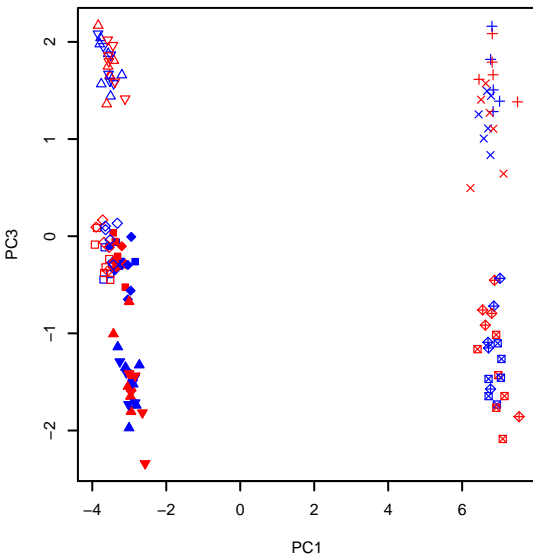
PC1 vs PC2, chromosome chr13



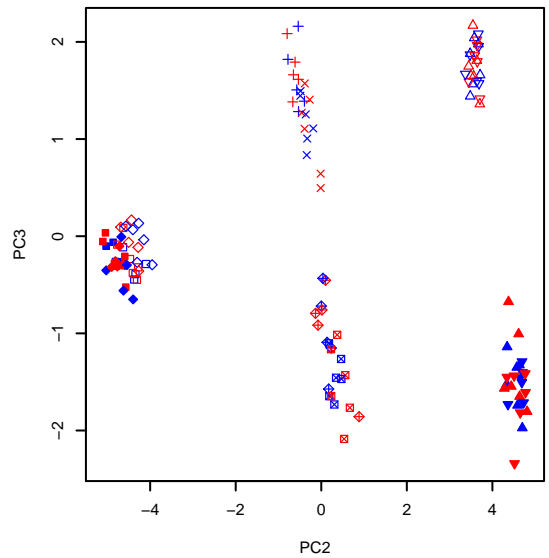
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr13



PC2 vs PC3, chromosome chr13

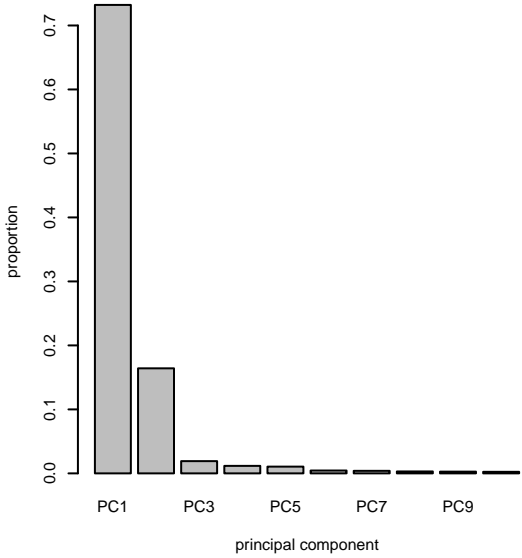


chr14 chromosome

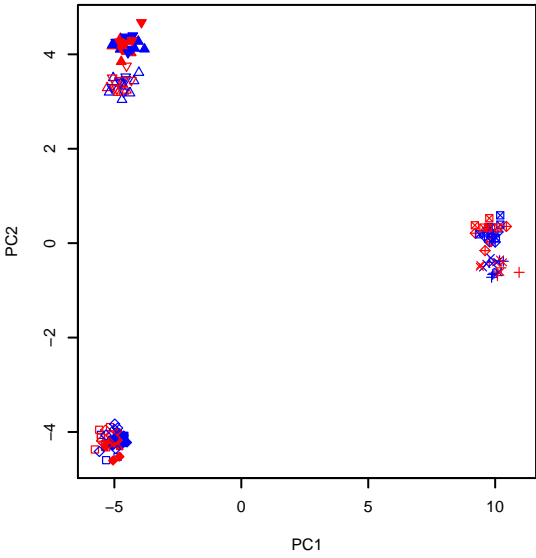
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr14



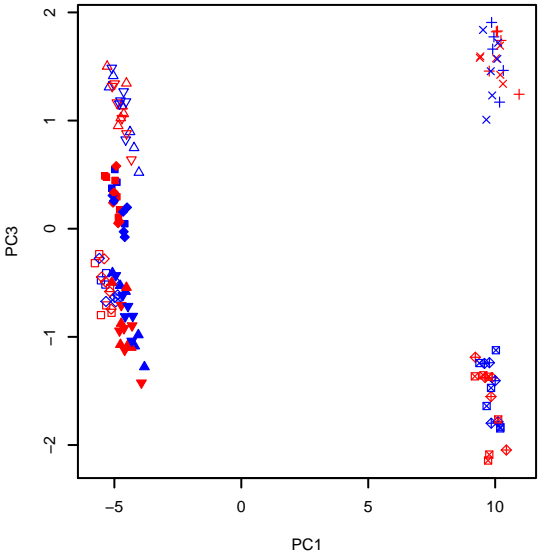
PC1 vs PC2, chromosome chr14



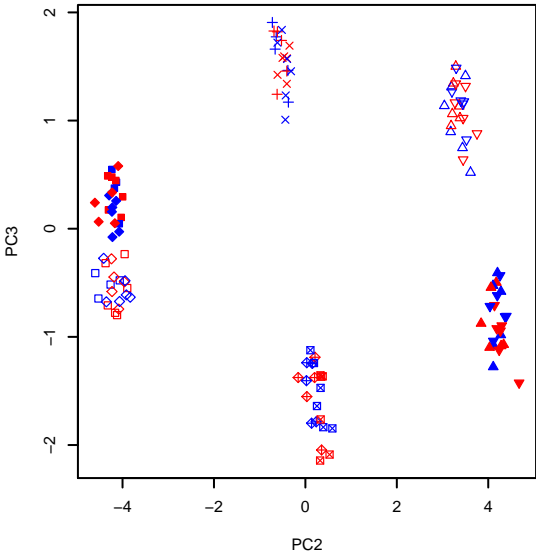
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr14



PC2 vs PC3, chromosome chr14

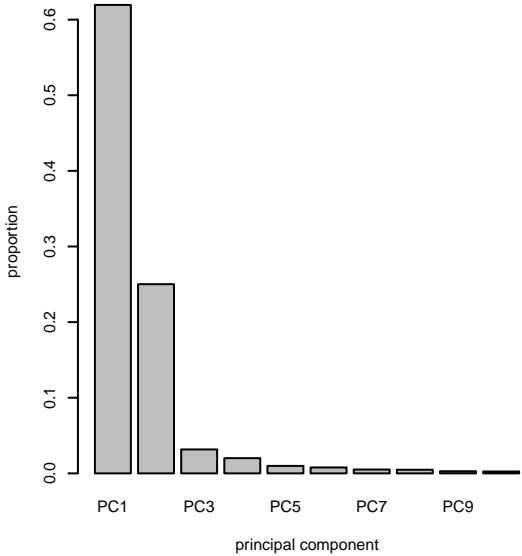


chr15 chromosome

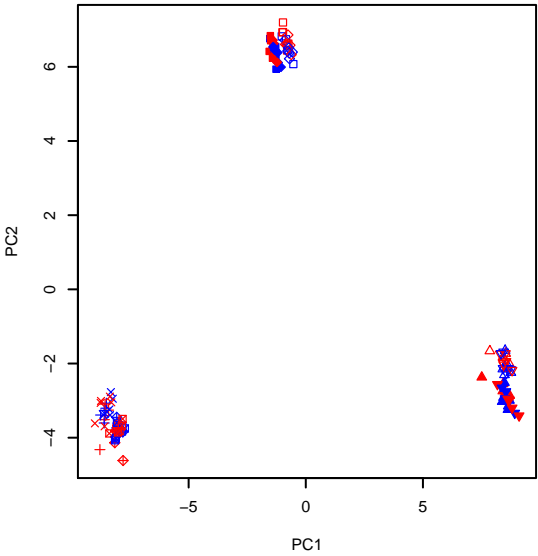
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr15



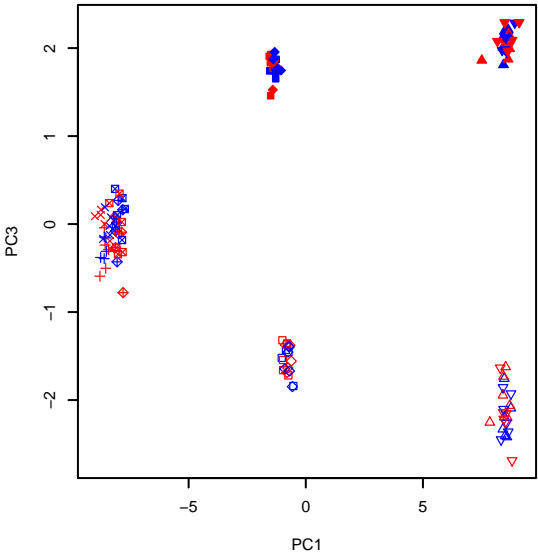
PC1 vs PC2, chromosome chr15



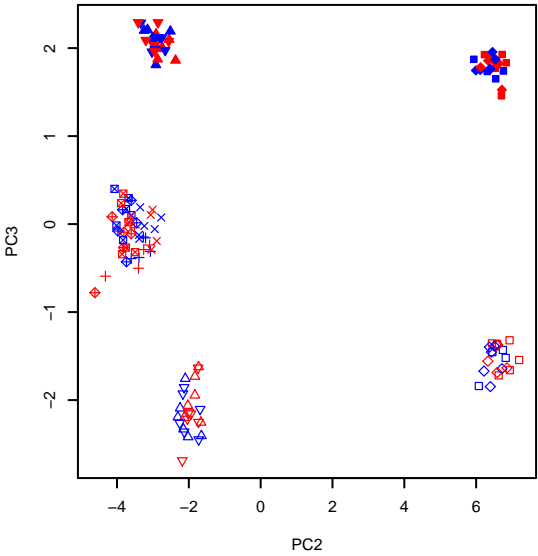
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr15



PC2 vs PC3, chromosome chr15

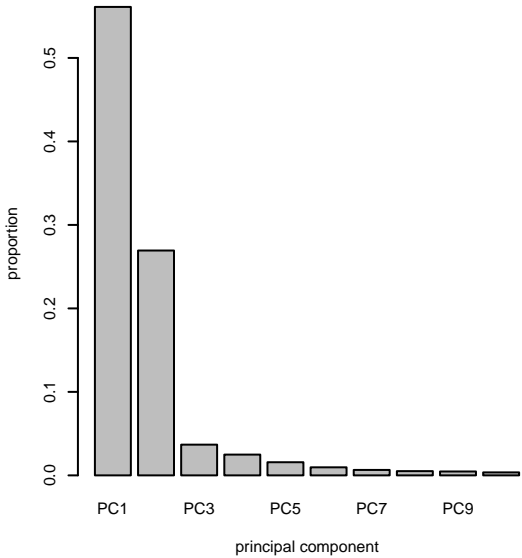


chr16 chromosome

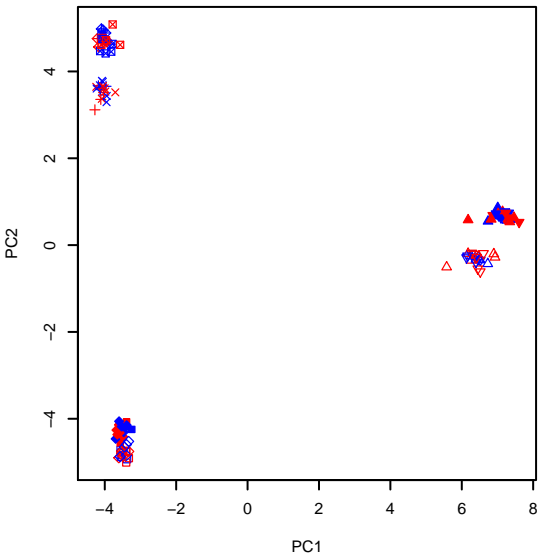
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr16



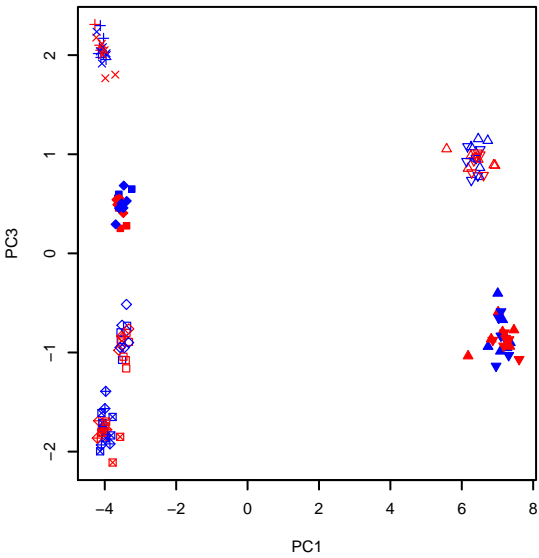
PC1 vs PC2, chromosome chr16



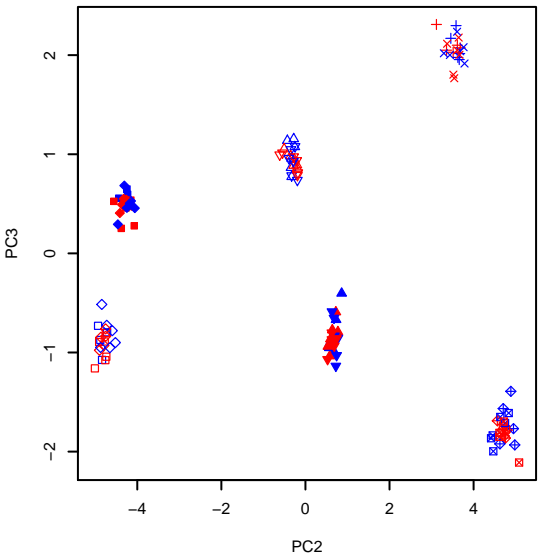
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr16



PC2 vs PC3, chromosome chr16

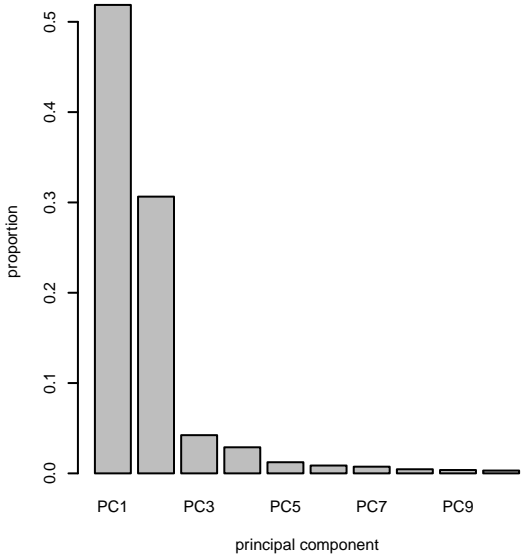


chr17 chromosome

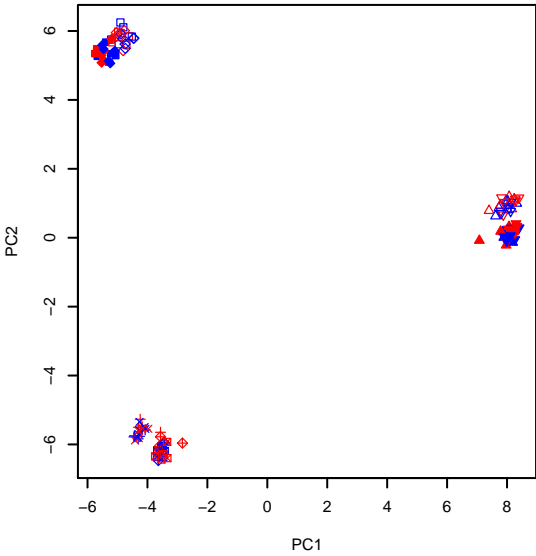
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr17



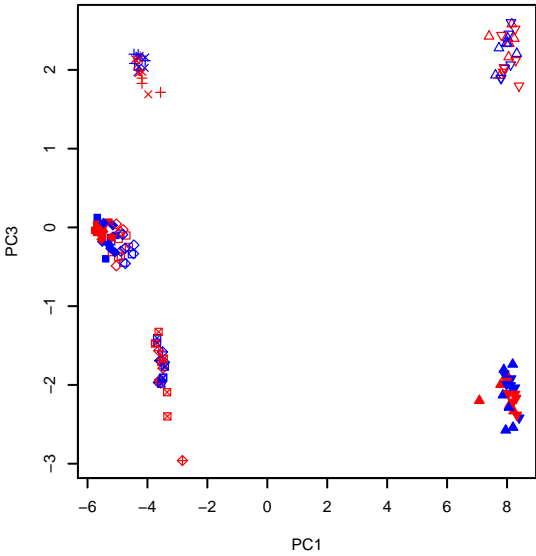
PC1 vs PC2, chromosome chr17



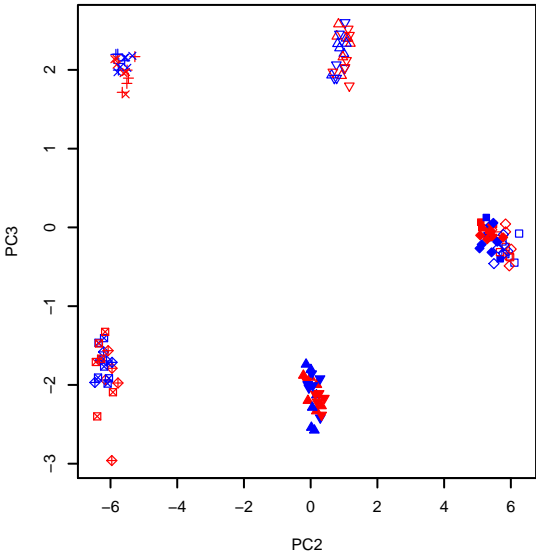
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr17



PC2 vs PC3, chromosome chr17

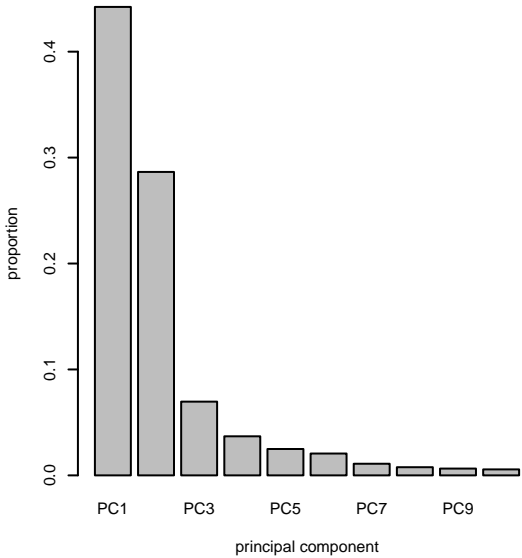


chr18 chromosome

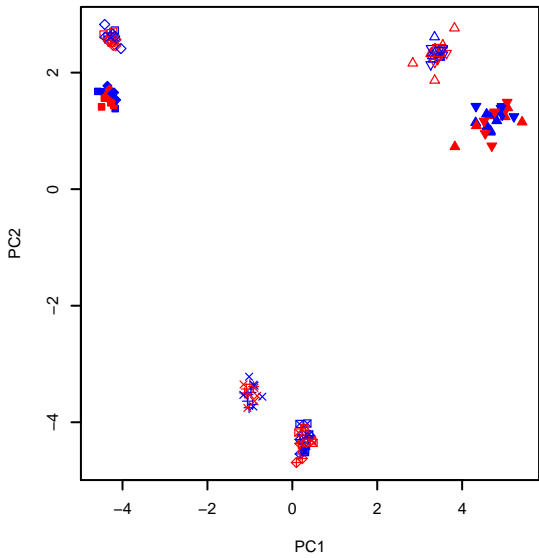
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr18



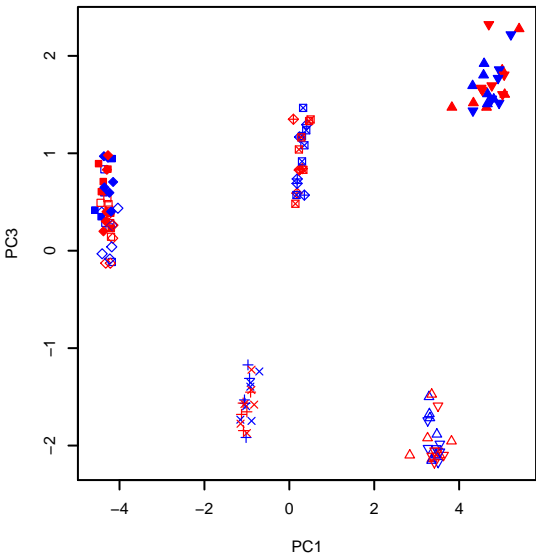
PC1 vs PC2, chromosome chr18



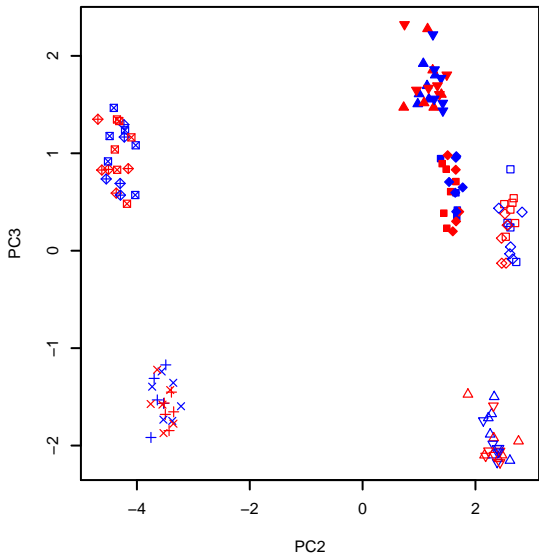
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr18



PC2 vs PC3, chromosome chr18

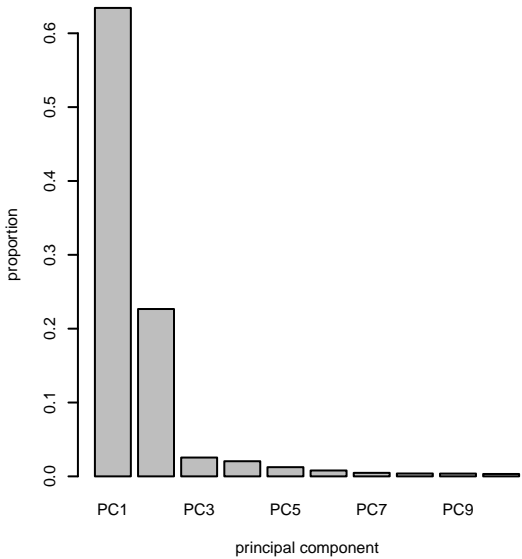


chr19 chromosome

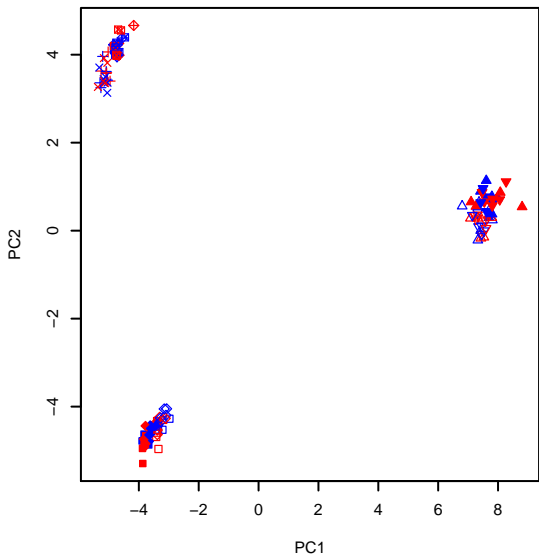
female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

Proportion of variance explained, chr19



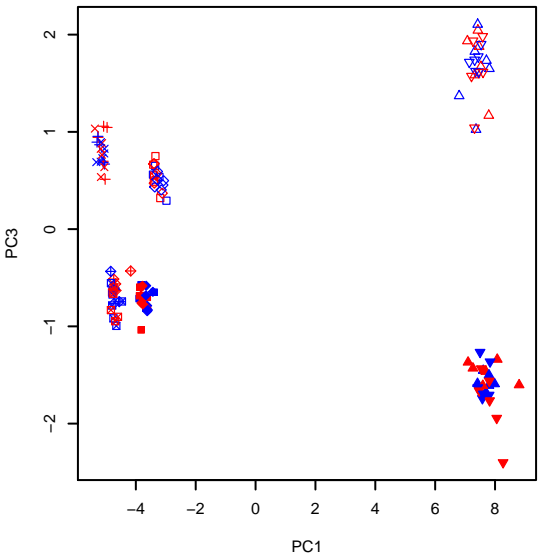
PC1 vs PC2, chromosome chr19



female – red male – blue

□ FG_F ■ FG_G ◇ GF_F ◆ GF_G △ FH_F ▲ FH_H ▽ HF_F ▼ HF_H + GH_G ◆ GH_H × HG_G ▣ HG_H

PC1 vs PC3, chromosome chr19



PC2 vs PC3, chromosome chr19

