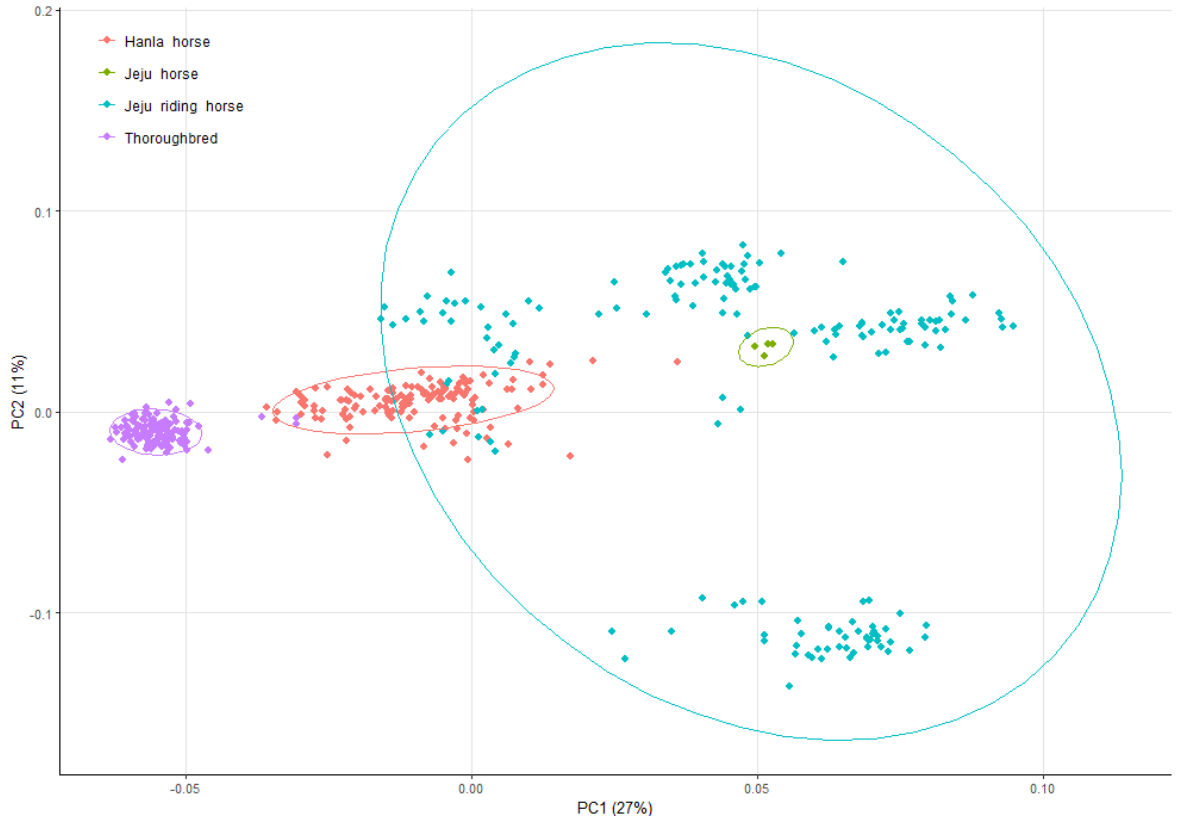
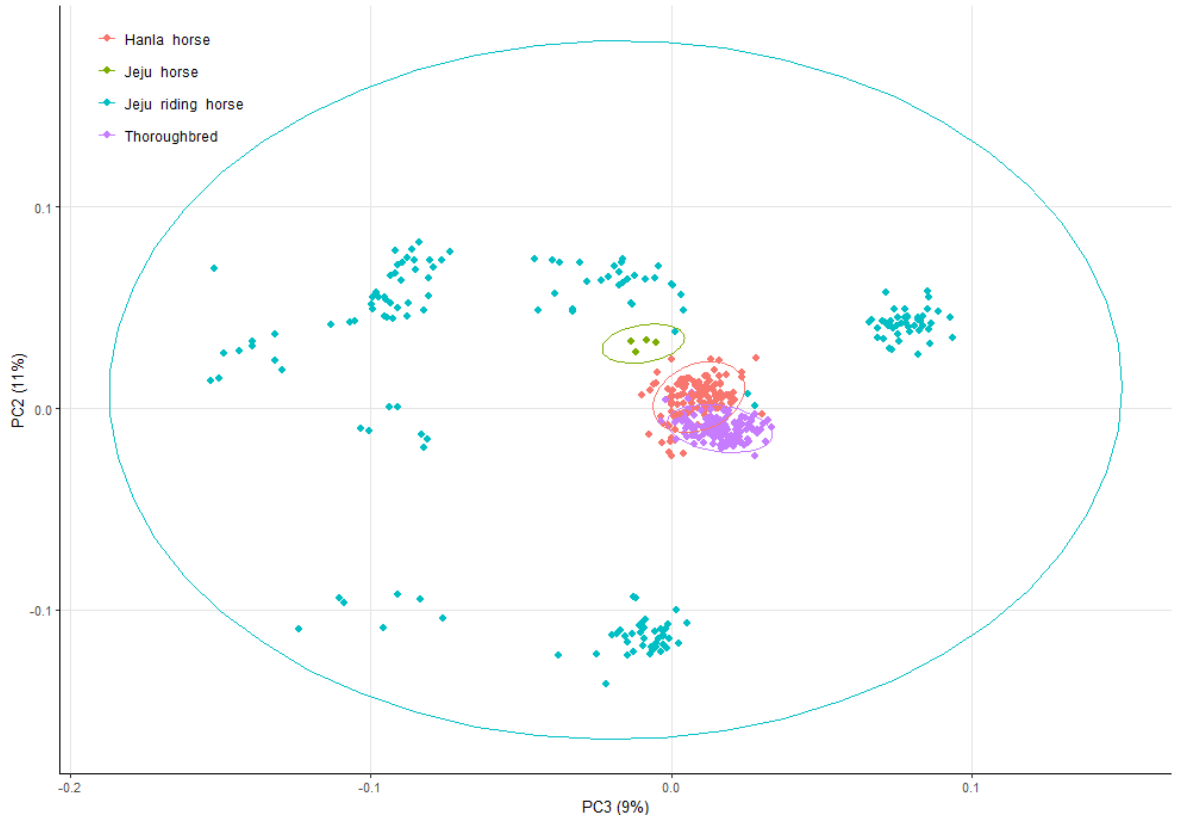
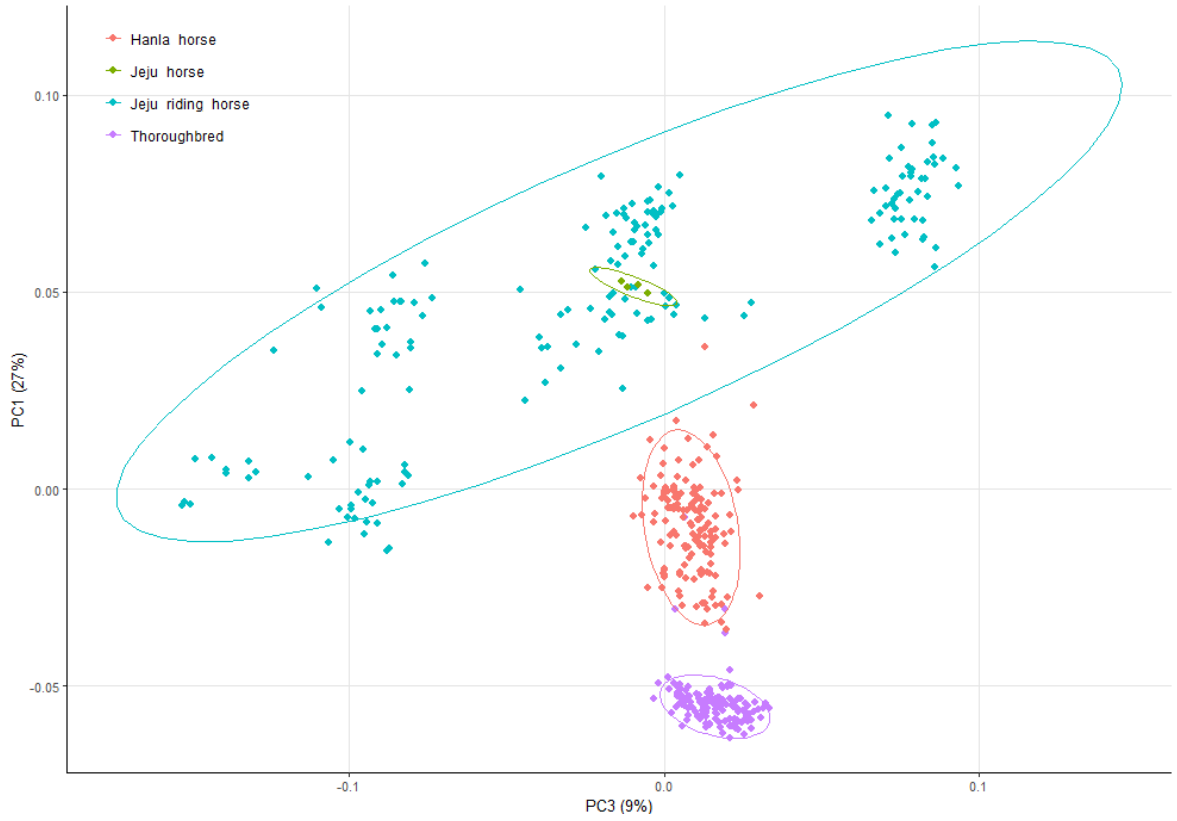
(a)


Hanla horse
Jeju horse
Jeju riding horse
Thoroughbred
PC2 (11%)
PC1 (27%)
0.2
0.1
0.0
-0.1
-0.05
0.00
0.05
0.10

(b)


Hanla horse
Jeju horse
Jeju riding horse
Thoroughbred
PC2 (11%)
PC3 (9%)
0.1
0.0
-0.1
-0.2
-0.1
0.0
0.1

(c)



(d)

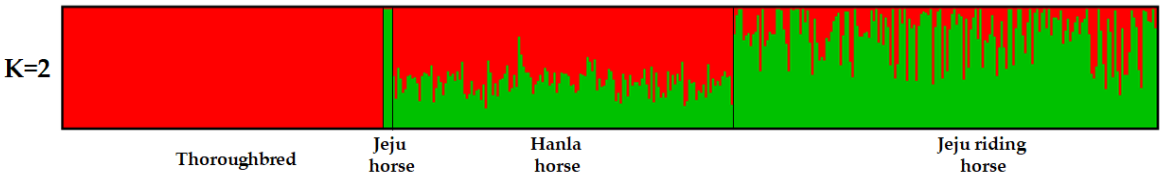


Figure S1. PCA and admixture analysis results of four horse breeds. (**a**) PCA analysis of PC1 vs. PC2; (**b**) PCA analysis of PC3 vs. PC2; (**c**) PCA analysis of PC3 vs. PC1; (**d**) Admixture analysis (K = 2)

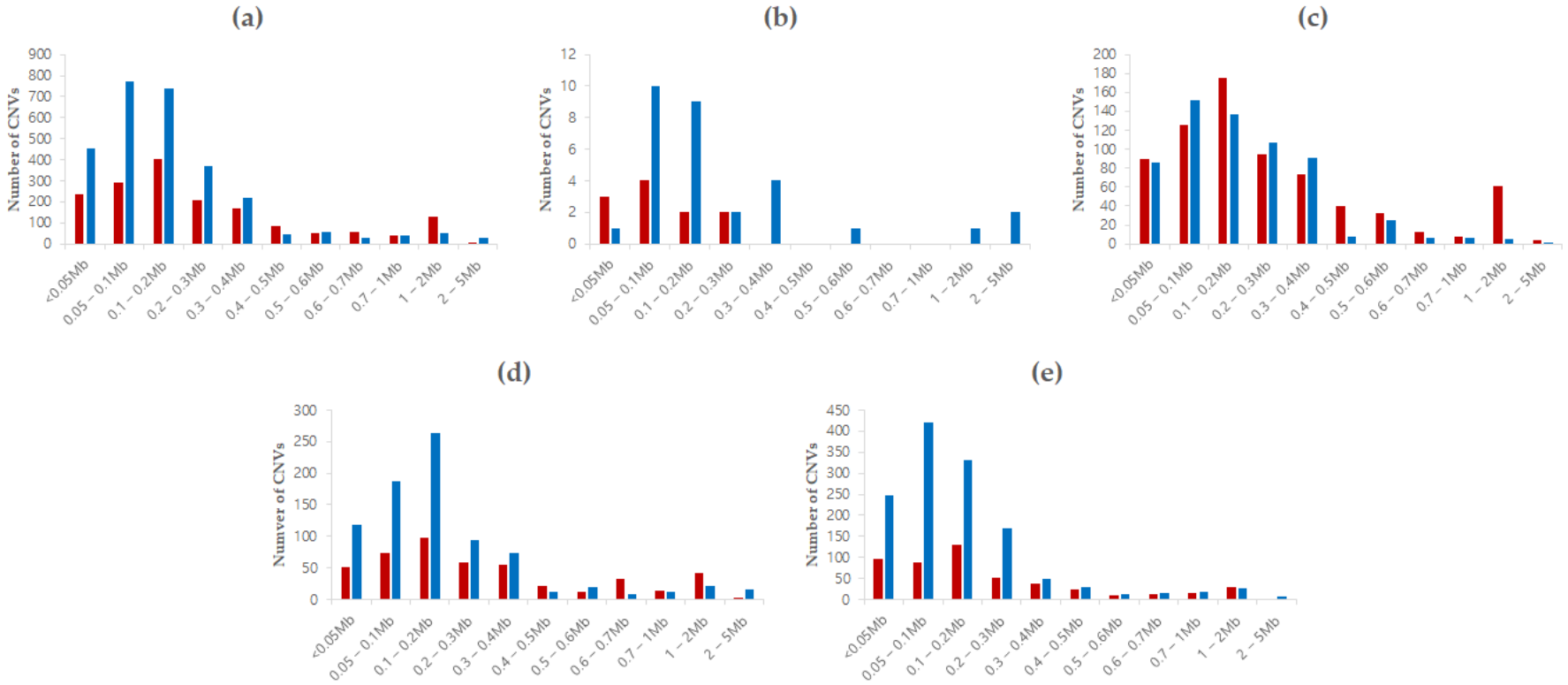


Figure S2. Gain and loss distribution by length of copy number variation (CNV) in four horse breeds in South Korea. (**a**) Total CNV distribution; (**b**) Jeju horse CNVR distribution; (**c**) Thoroughbred CNVR distribution; (**d**) Jeju riding horse CNVR distribution; (**e**) Hanla horse CNVR distribution. Red and blue represent losses and gains respectively.