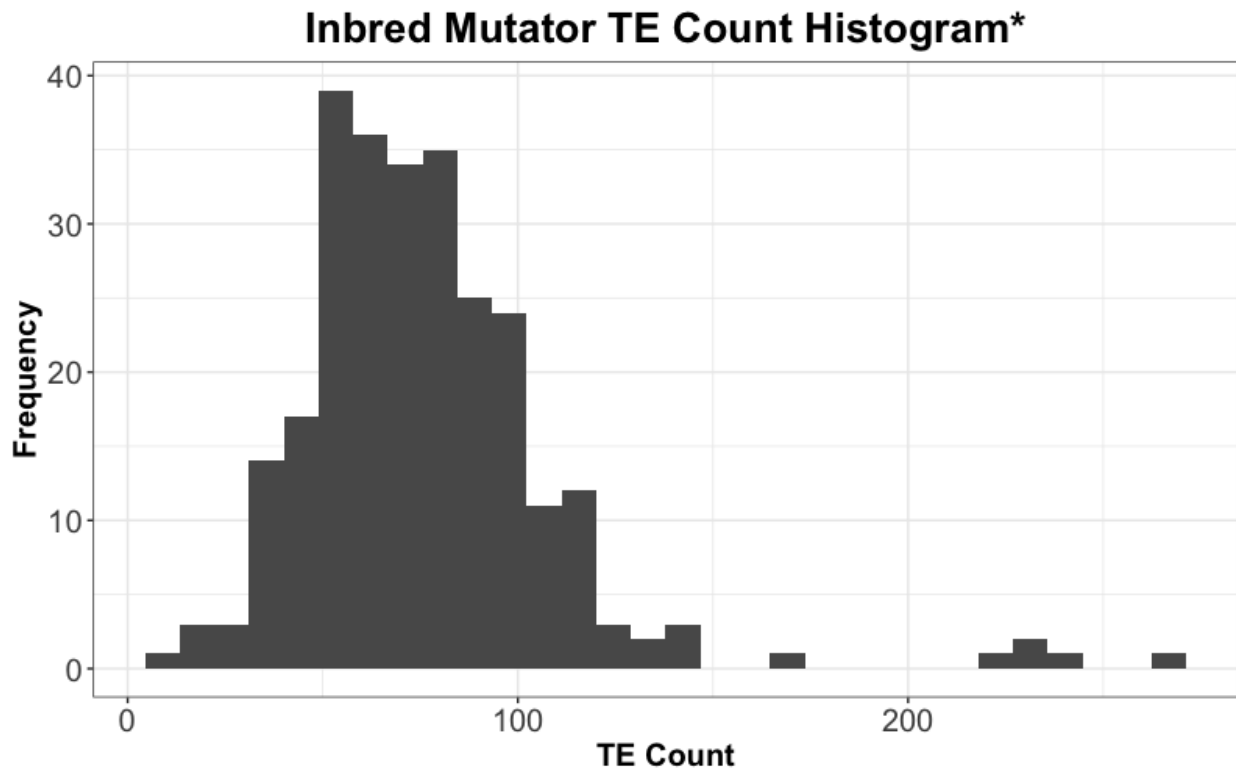


TE count histogram

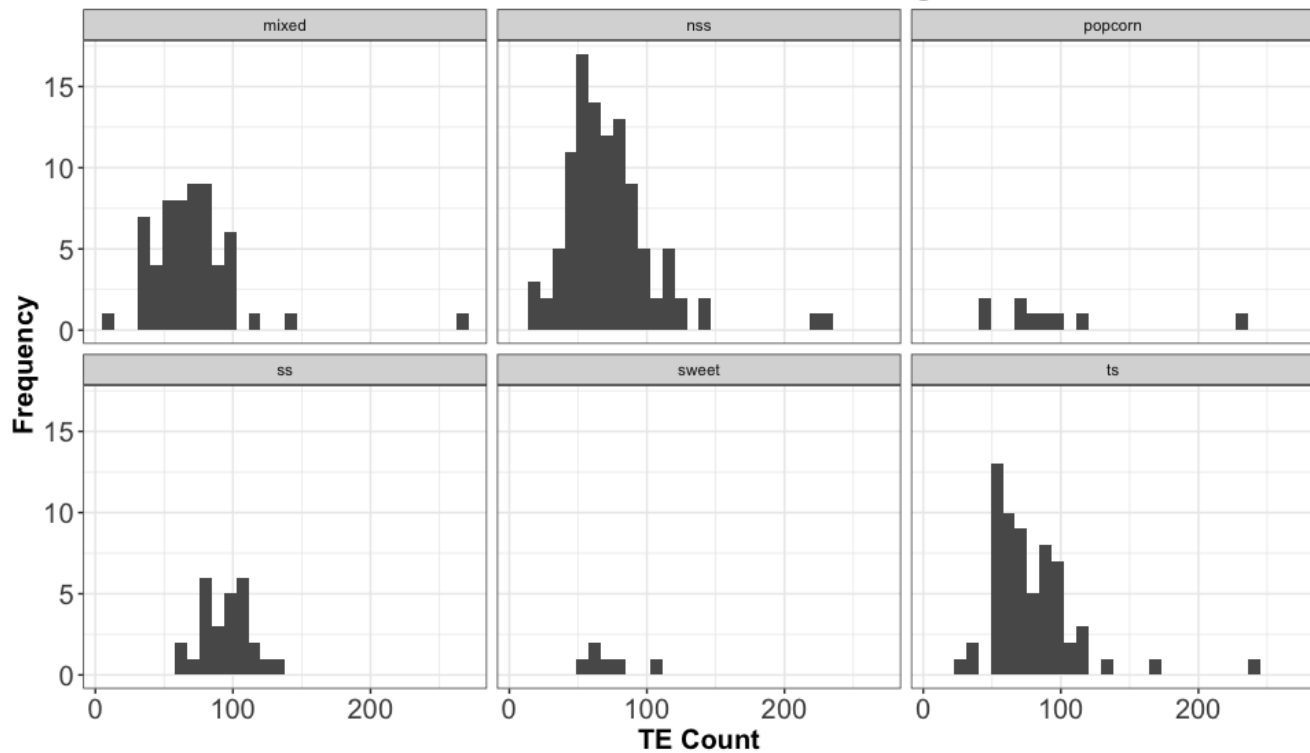


*histogram does not include Inbreds with insertions >300, as they had 500-1000 insertions
* "A6" "B57" "VaW6" excluded from barchart

```
> summary(adj_gene_region_summary$te_count_assigned)
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  8.00  55.75   72.00   76.77  92.00  266.00
```

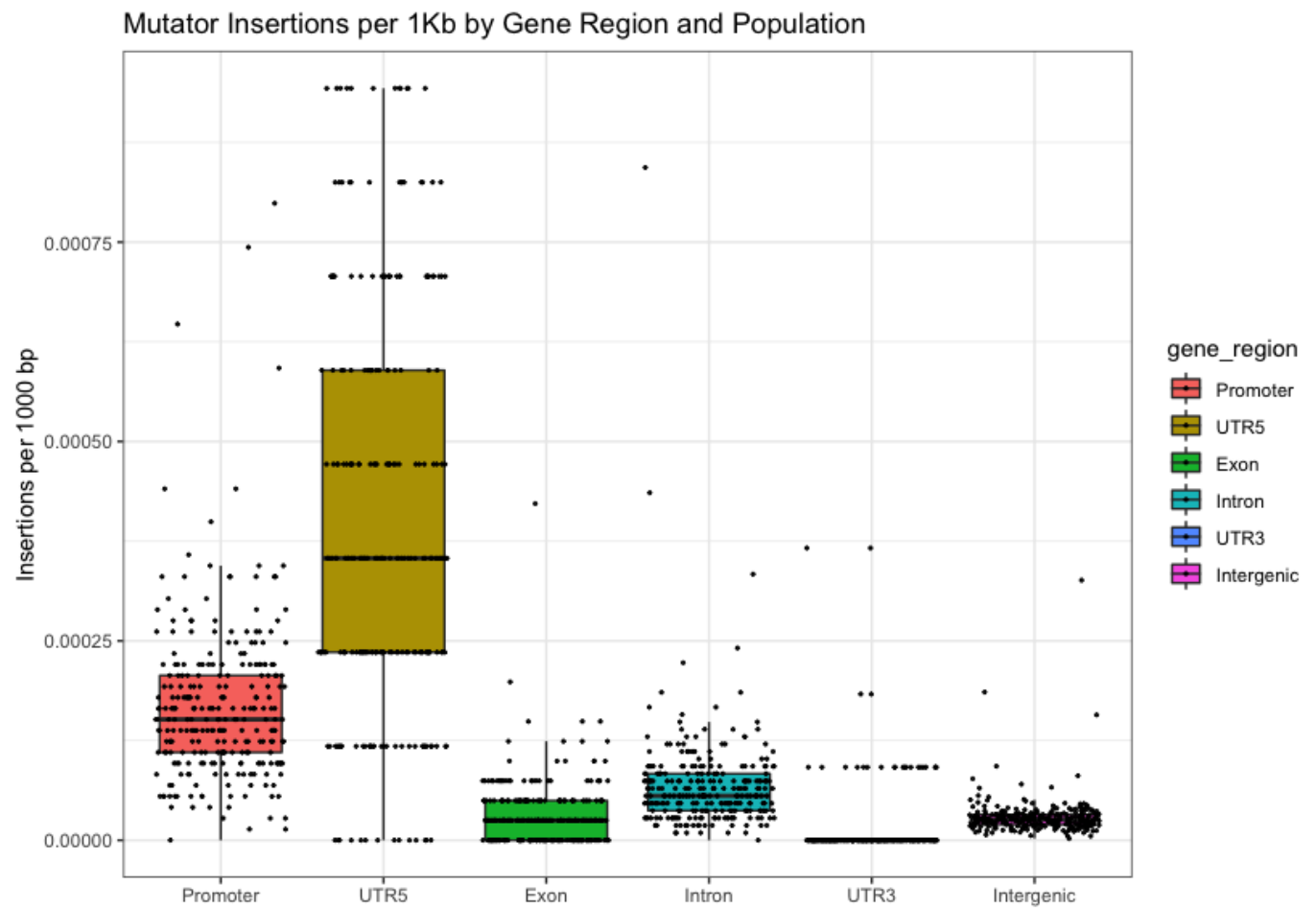
TE Count Histogram by Population

Inbred Mutator TE Count Histogram*



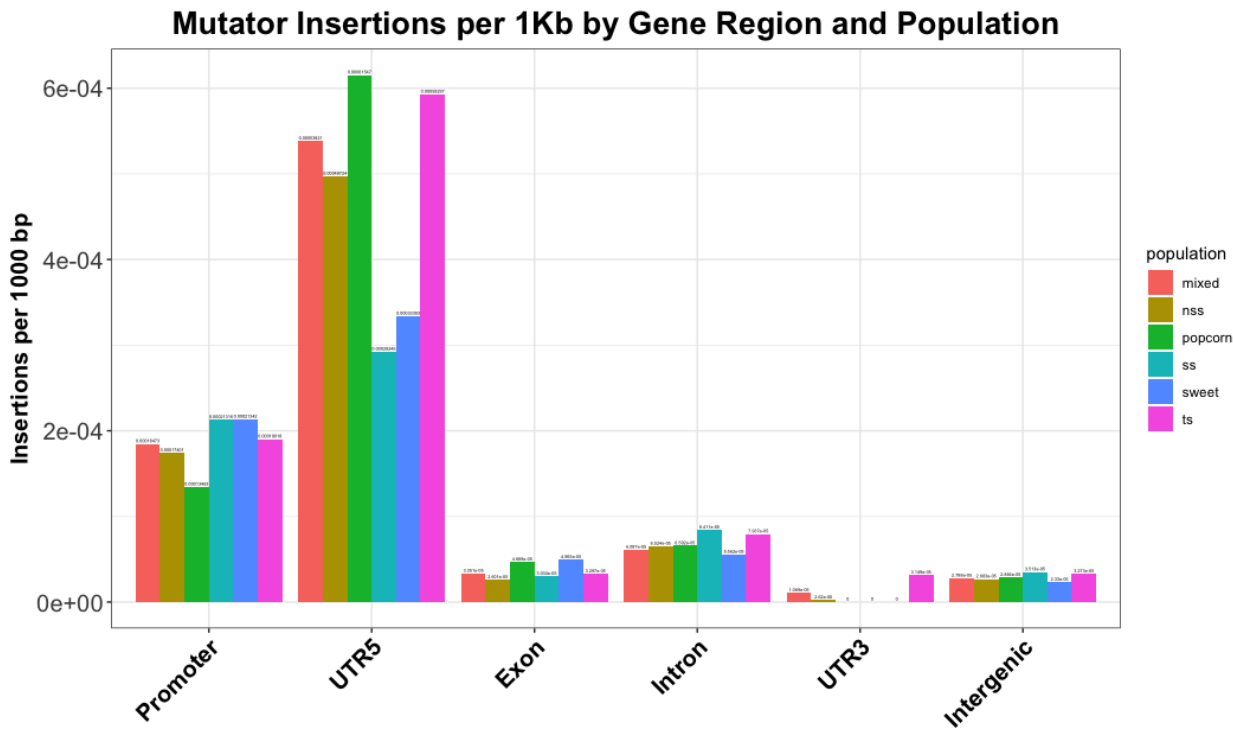
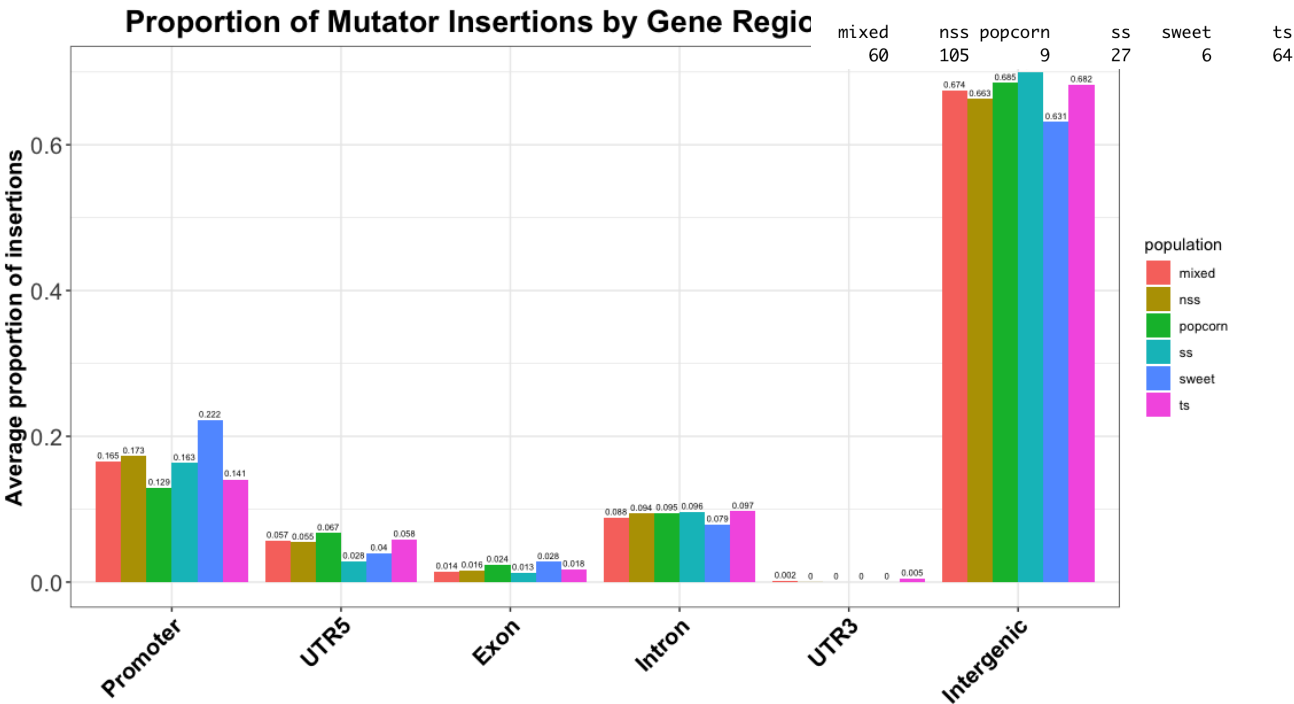
```
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "mixed"),]$te_count_assigned)
 0%  25%  50%  75% 100%
8.00 53.75 67.50 83.25 570.00
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "nss"),]$te_count_assigned)
 0%  25%  50%  75% 100%
15  52  67  85 406
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "popcorn"),]$te_count_assigned)
 0%  25%  50%  75% 100%
42  70  80  97 232
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "ss"),]$te_count_assigned)
 0%  25%  50%  75% 100%
61.0 82.5 95.0 108.5 133.0
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "sweet"),]$te_count_assigned)
 0%  25%  50%  75% 100%
53.00 61.00 65.50 76.75 105.00
> quantile(gpi_gene_region_summary[which(gpi_gene_region_summary$Subpopulation == "ts"),]$te_count_assigned)
 0%  25%  50%  75% 100%
25.00 57.75 72.50 93.25 937.00
```

ins/1kb by gene region



ins/kb by pop + gene region

```
> table(gpi_gene_region_summary$Subpopulation)
```



linear model summaries

```
Call:
glm(formula = promoter_ins_prop ~ te_count_assigned + Subpopulation,
     data = gpi_gene_region_summary)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-0.139129 -0.037436 -0.004487  0.033055  0.240547

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   1.635e-01  8.798e-03  18.579  <2e-16 ***
te_count_assigned  2.299e-05  5.157e-05   0.446  0.6562
Subpopulationnss  7.313e-03  9.749e-03   0.750  0.4538
Subpopulationpopcorn -3.630e-02  2.154e-02  -1.685  0.0931 .
Subpopulationnss -2.519e-03  1.398e-02  -0.180  0.8571
Subpopulationssweet  5.723e-02  2.579e-02   2.219  0.0273 *
Subpopulationnts -2.491e-02  1.084e-02  -2.298  0.0224 *
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for gaussian family taken to be 0.003626671)

    Null deviance: 1.03101  on 270  degrees of freedom
Residual deviance: 0.95744  on 264  degrees of freedom
AIC: -744.9

Number of Fisher Scoring iterations: 2

Call:
glm(formula = utr5_ins_prop ~ te_count_assigned + Subpopulation,
     data = gpi_gene_region_summary)

Deviance Residuals:
    Min       1Q   Median       3Q      Max
-0.058020 -0.022797 -0.003975  0.019066  0.082943

Coefficients:
              Estimate Std. Error t value Pr(>|t|)
(Intercept)   5.683e-02  4.637e-03  12.256  < 2e-16 ***
te_count_assigned  1.328e-06  2.718e-05   0.049  0.961059
Subpopulationnss -2.394e-03  5.138e-03  -0.466  0.641586
Subpopulationpopcorn 1.005e-02  1.135e-02   0.885  0.376912
Subpopulationnss -2.888e-02  7.368e-03  -3.920  0.000113 ***
Subpopulationssweet -1.726e-02  1.359e-02  -1.270  0.205354
Subpopulationnts  1.097e-03  5.713e-03   0.192  0.847840
---
Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1

(Dispersion parameter for gaussian family taken to be 0.001007347)

    Null deviance: 0.28832  on 270  degrees of freedom
Residual deviance: 0.26594  on 264  degrees of freedom
AIC: -1092

Number of Fisher Scoring iterations: 2
```

Ins matrix PCAs

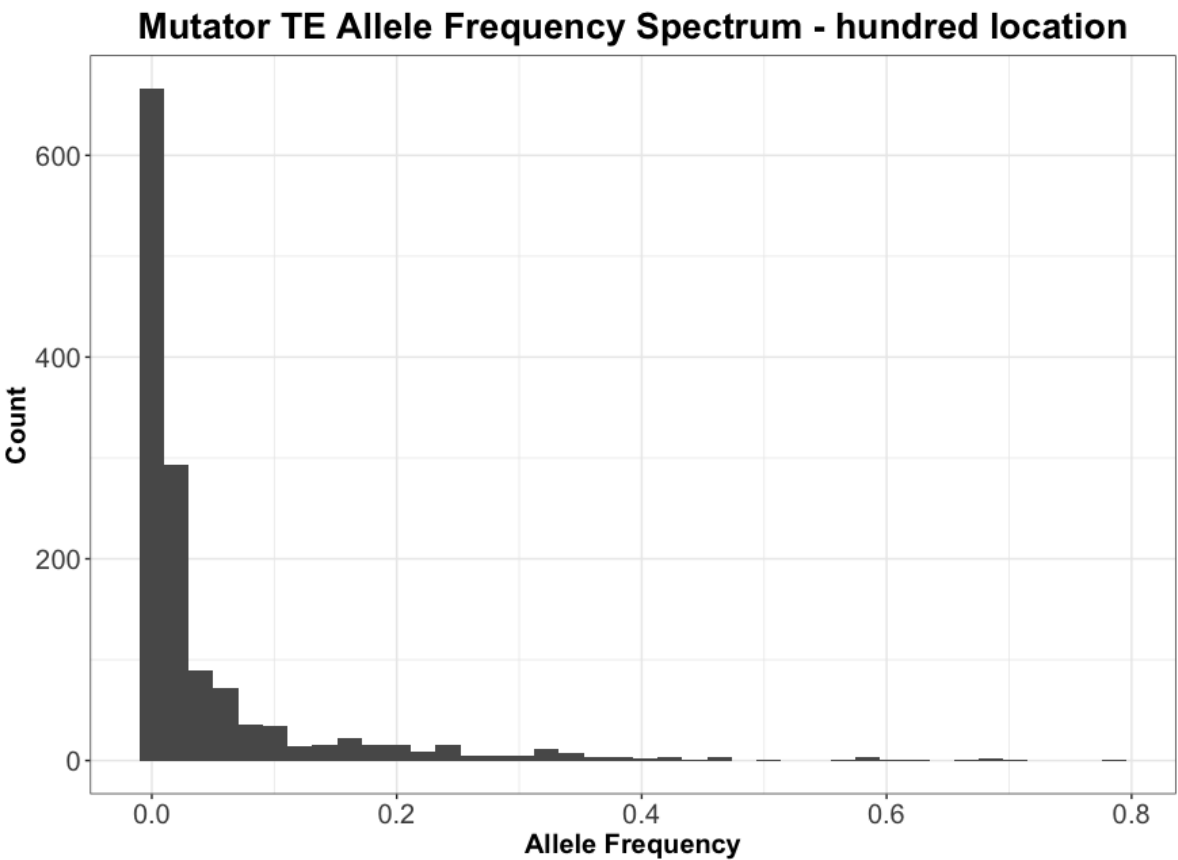
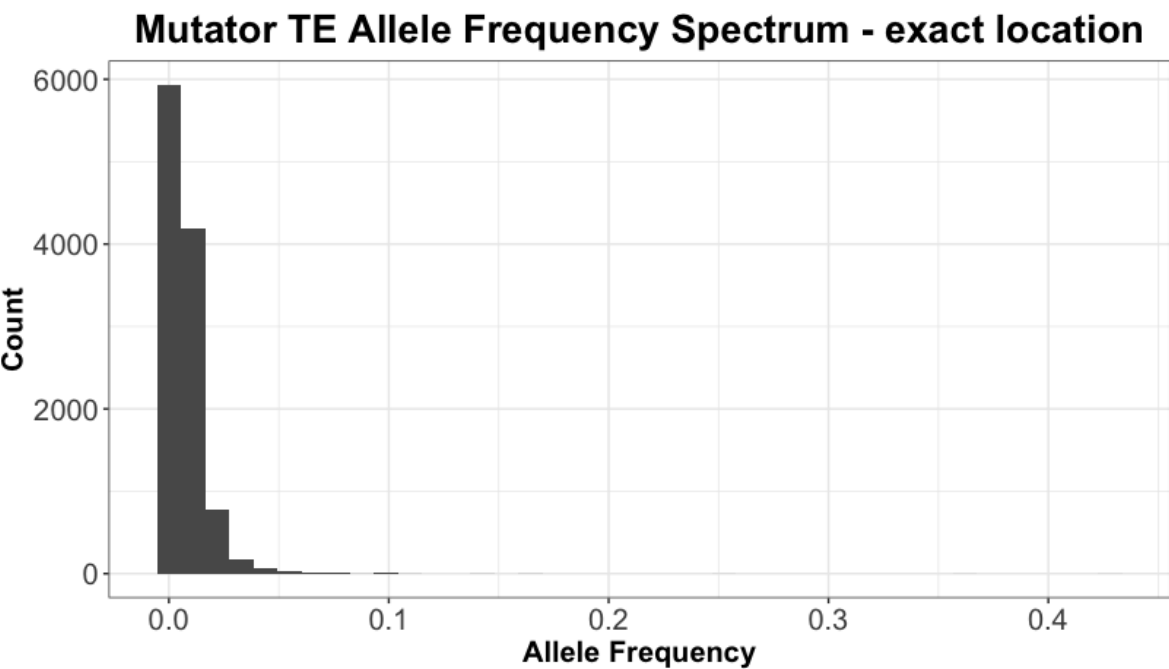
[Folder with all PCAs](#) - each PCA plot has a version without inbred label and with inbred label

Exact - ins matrix based on ins within 18 bp

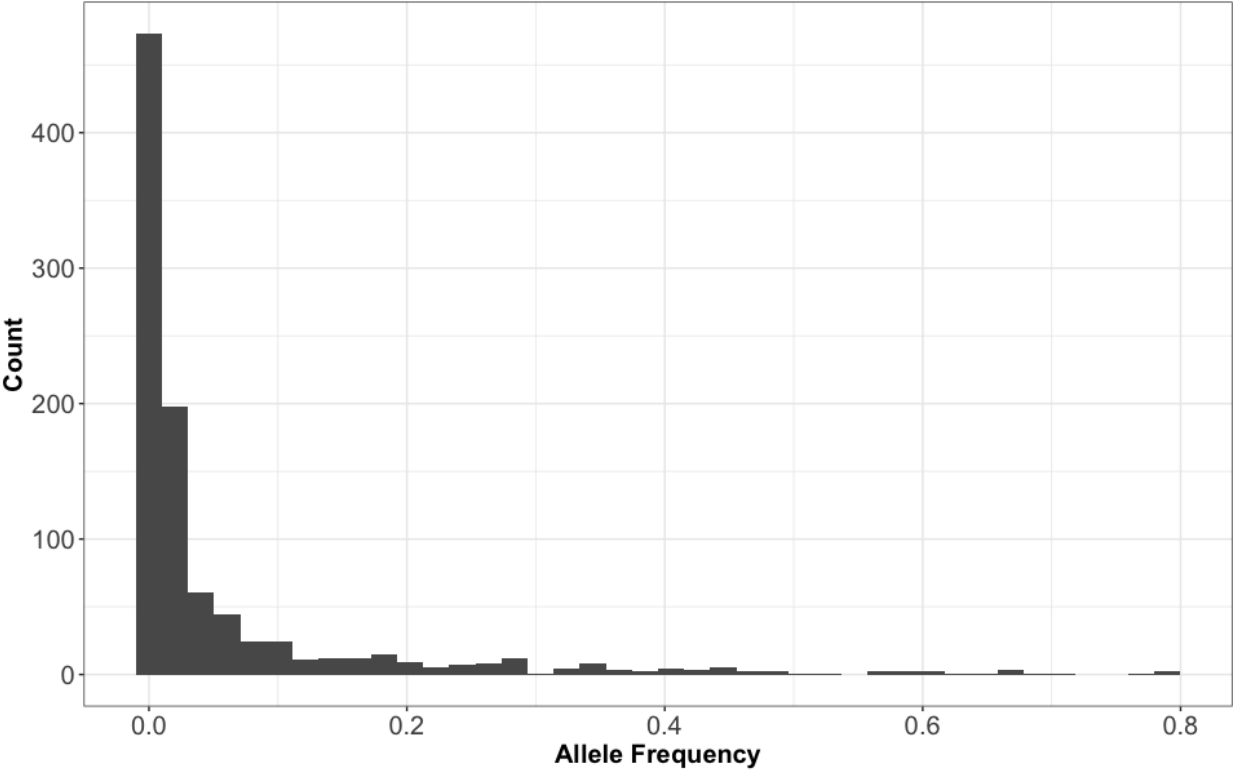
Hundred - ins matrix based on ins rounded to nearest 100

Thousand - ins matrix based on ins rounded to nearest 1000

Allele freq spectrum hist

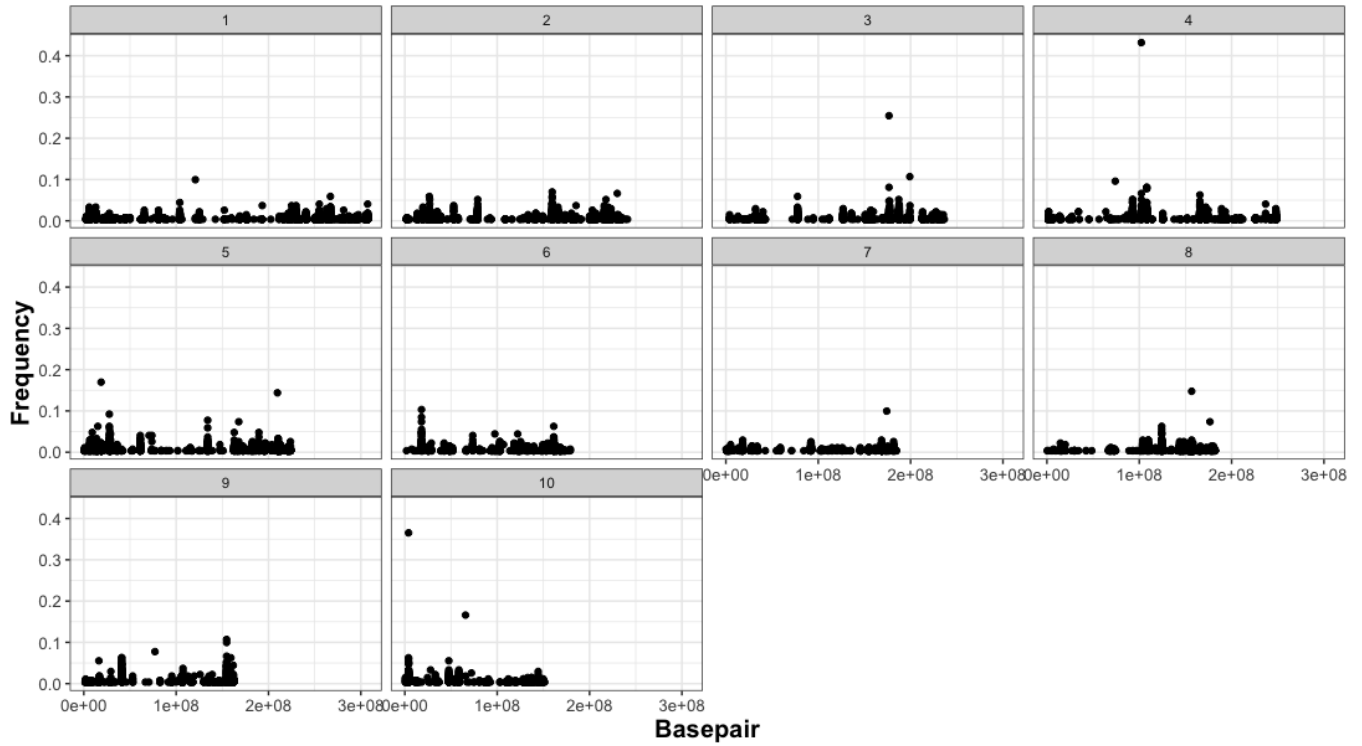


Mutator TE Allele Frequency Spectrum - thousand location

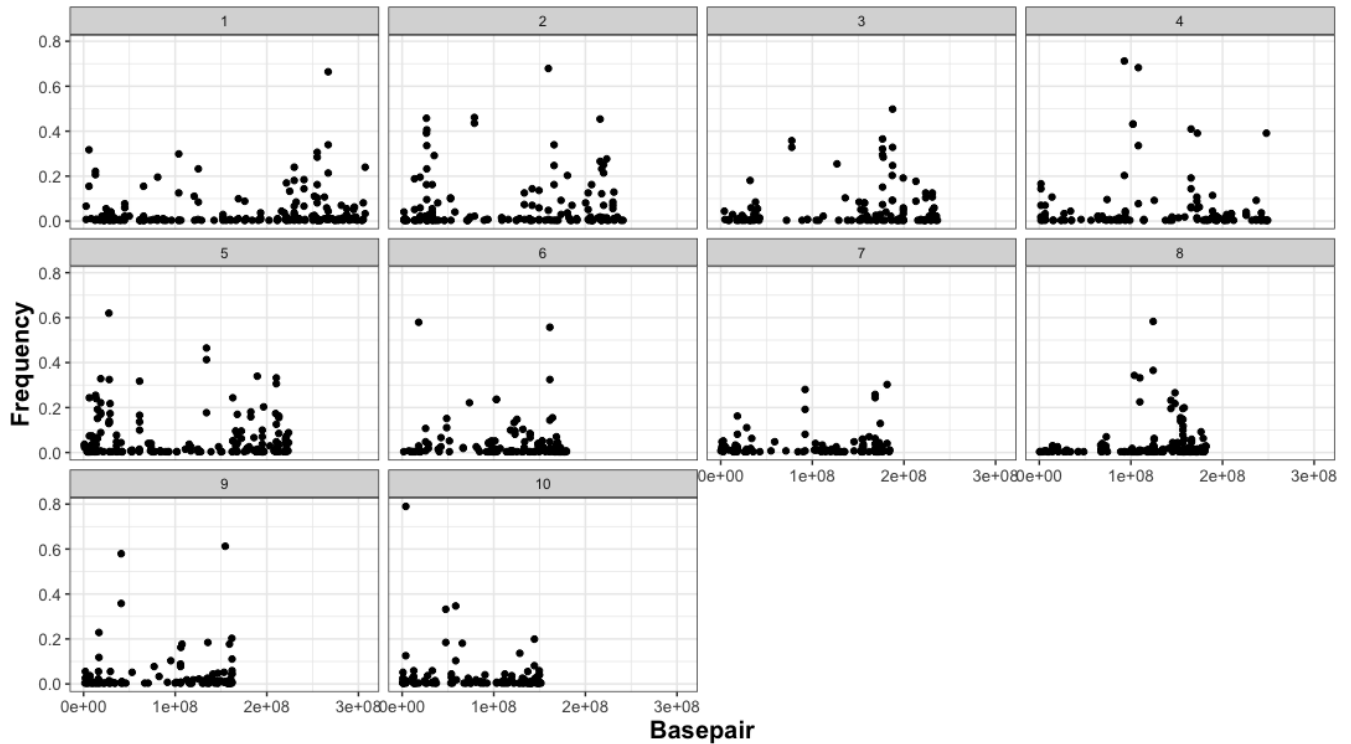


Allele freq by chrom hist

Mutator TE Allele Frequency by chromosome and bp location - exact location



Mutator TE Allele Frequency by chromosome and bp location - hundred location



Mutator TE Allele Frequency by chromosome and bp location - thousand location

