balselrexample

2024-02-18

```
library(balselr)
#Read In the VCF File
read_vcf(x=system.file(package="balselr", "example.vcf"))
```

```
##      CHR   POS ID REF ALT QUAL FILTER
##   1:   1    92  .   A   C 1000   PASS
##   2:   1   177  .   C   A 1000   PASS
##   3:   1   283  .   T   C 1000   PASS
##   4:   1   289  .   C   G 1000   PASS
##   5:   1   327  .   G   T 1000   PASS
##  ---
## 834:   1 29734  .   A   T 1000   PASS
## 835:   1 29761  .   T   C 1000   PASS
## 836:   1 29795  .   A   T 1000   PASS
...
```

```
#Parse the VCF Files
ncd1imput <-parse_vcf(infile=system.file(package="balselr", "example.vcf"), n0=108, type="ncd1")
```

```
##      CHR   POS ID REF ALT QUAL FILTER
##   1:   1    92  .   A   C 1000   PASS
##   2:   1   177  .   C   A 1000   PASS
##   3:   1   283  .   T   C 1000   PASS
##   4:   1   289  .   C   G 1000   PASS
##   5:   1   327  .   G   T 1000   PASS
##  ---
## 834:   1 29734  .   A   T 1000   PASS
## 835:   1 29761  .   T   C 1000   PASS
## 836:   1 29795  .   A   T 1000   PASS
...
```

```
#Run ncd1 Test
ncd1(ncd1_input)
```

```
##      Win.ID SegSites IS  tf     MidMaf MidSNP      NCD1
##   1:      1       10 10 0.5 0.00462963    398 0.3906102
##   2:      2       12 12 0.5 0.38425926    627 0.4094693
##   3:      3       15 15 0.5 0.31018519    956 0.4236469
##   4:      4       16 16 0.5 0.02314815   1155 0.4265262
##   5:      5       17 17 0.5 0.01388889   1336 0.4270404
##  ---
## 191:    191       19 19 0.5 0.24537037  29259 0.4167113
```

```
## 192:    192       18 18 0.5 0.27314815  29377 0.4134089
## 193:    193       15 15 0.5 0.24537037  29734 0.4096756
...
```