Classes SNPExperiment and CNVExperiment: Derivatives of SummarizedExperiment for use with genotype and intensity data in package trioClasses

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```
> library("trioClasses")
> library("snpStats")
> library("vcf2R")
> data(targets)
> data("BMP4-european-all.sm")
> df <- DataFrame(dx = rep(1, 10), sex = rep(1, 10), row.names = paste0("sub",
     1:10))
> class(df)
[1] "DataFrame"
attr(,"package")
[1] "IRanges"
> class(sm)
[1] "SnpMatrix"
attr(,"package")
[1] "snpStats"
> logR <- matrix(runif(130), nrow = 13, ncol = 10)
> baf <- matrix(runif(130), nrow = 13, ncol = 10)</pre>
> se <- SummarizedExperiment(assays = SimpleList(geno = sm[1:13,
     1:10], logR = logR, baf = baf), colData = df, rowData = targets.gr)
> ste <- new("SNPTrioExperiment", se, pedigree = ped.df)
> ste
class: SNPTrioExperiment
dim: 13 10
exptData(0):
assays(3): geno logR baf
rownames(13): IRF6 MAFB ... FGFR2 PTCH1
rowData metadata column names(0):
colnames(10): sub1 sub2 ... sub9 sub10
colData names(2): dx sex
pedigree(10): FAMID ID FID MID SEX DX
```

- > class(ste@pedigree)
- [1] "data.frame"
- > class(geno(ste))
- [1] "SnpMatrix"
 attr(,"package")
 [1] "snpStats"

- > class(logR(ste))
- [1] "matrix"
- > class(baf(ste))
- [1] "matrix"