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

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January 24, 2013

```
> library("trioClasses")
> library("vcf2R")
> data(targets)
> data("BMP4-european-all.sm")
> df <- DataFrame(dx = rep(1, 10), sex = rep(1, 10), row.names = pasteO("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)
> snpEx <- new("SNPTrioExperiment", Pedigree = data.frame(1:10),
     assays = SimpleList(geno = sm[1:13, 1:10], logR = logR,
         baf = baf), colData = df, rowData = targets.gr)
> show(snpEx)
class: SNPTrioExperiment
dim: 13 10
exptData(0):
assays(3): geno logR baf
rownames(13): IRF6 MAFB ... FGFR2 PTCH1
rowData values names(0):
colnames(10): sub1 sub2 ... sub9 sub10
colData names(2): dx sex
> class(assays(snpEx)[[1]])
```

[1] "SnpMatrix"
attr(,"package")
[1] "snpStats"