```
Today is November 26, 2012.
```

```
> library("vcf2R")
> library("GenomicRanges")
> file = "/home/sgy/jhsph/targeted-sequencing/repo/vcf2R/inst/extdata/snvs.fixed_header.hwe"
> hwe.df <- hwe2R(file = file)</pre>
> head(hwe.df)
  chr
                  chi.sq p.value homo.major het homo.minor
           pos
   1 18772169 0.000056 1.000000
                                        4494
                                               1
   1 18772190  0.000223  1.000000
                                        4493
                                               2
                                                          0
   1 18772191 15.727310 0.053862
                                        4464 30
                                                          1
  1 18772203 0.000223 1.000000
                                                          0
                                        4493
                                               2
  1 18772218  0.000223 1.000000
                                        4493 2
                                                          0
   1 18772236  0.016134  1.000000
                                        4478 17
                                                          0
> file = "/home/sgy/jhsph/targeted-sequencing/repo/vcf2R/inst/extdata/snvs.fixed_header.frq"
> pos.df <- frq2pos(file)</pre>
> with(pos.df, table(chr))
chr
   1
         10
               14
                     17
                           20
                                  4
                                        8
44713 29857 1559 29486 18740 2444 27639 20751
> pos.gr <- with(pos.df, GRanges(segnames = paste("chr",
     chr, sep = ""), ranges = IRanges(start = pos, end = pos),
     strand = "+"))
> pos.gr
GRanges with 175189 ranges and 0 metadata columns:
           seqnames
                                  ranges strand
              <Rle>
                               <IRanges> <Rle>
       [1]
               chr1 [18771811, 18771811]
               chr1 [18771817, 18771817]
       [2]
       [3]
               chr1 [18771849, 18771849]
       [4]
               chr1 [18771875, 18771875]
       [5]
               chr1 [18771893, 18771893]
       [6]
               chr1 [18771920, 18771920]
       [7]
              chr1 [18771931, 18771931]
       [8]
              chr1 [18772013, 18772013]
       [9]
              chr1 [18772069, 18772069]
                . . .
       . . .
  [175181]
              chr20 [39614777, 39614777]
             chr20 [39614783, 39614783]
  [175182]
              chr20 [39614798, 39614798]
  [175183]
             chr20 [39614826, 39614826]
  [175184]
  [175185]
             chr20 [39614830, 39614830]
  [175186]
              chr20 [39614868, 39614868]
              chr20 [39614885, 39614885]
  [175187]
```

chr20 [39614940, 39614940]

[175188]

Histogram of p.value

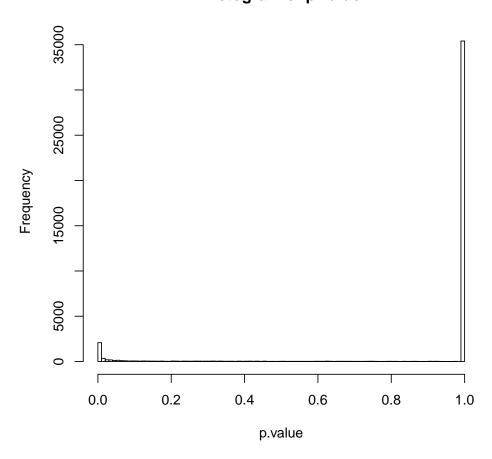


Figure 1: Histogram of Hardy-Weinberg p-values

[175189] chr20 [39614945, 39614945] +

seqlengths: