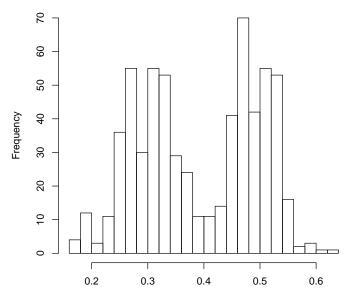
## listogram of trans.vec <- rowSums(TU.mat[, c(1, 3)])/rowSums(TU

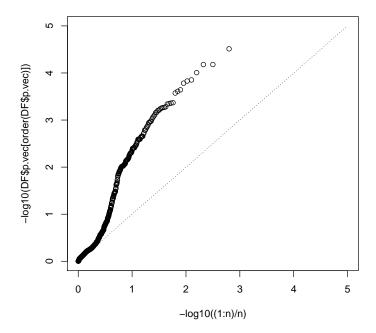


trans.vec <- rowSums(TU.mat[, c(1, 3)])/rowSums(TU.mat)

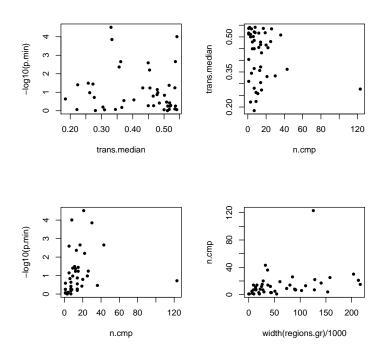
# > c(length(DF\$grange), length(reduce(DF\$grange)))

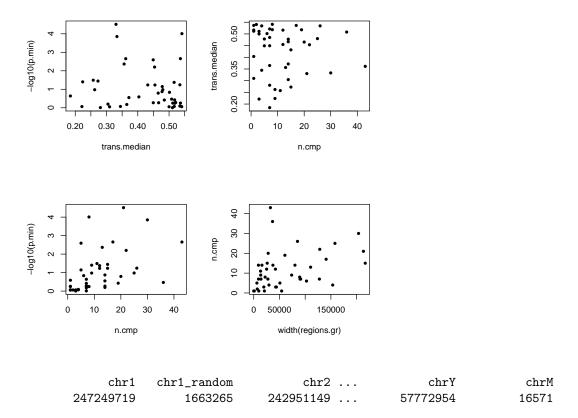
## [1] 632 45

			,				1.
	seqnames	start	end	wiath	strand	p.min	p.median
1	chr15	19768826	19982036	213211	*	3.072890e-05	0.0013693170
2	chr7	141419097	141441259	22163	*	9.833931e-05	0.0006589259
3	chr15	19341464	19545168	203705	*	1.406718e-04	0.0012756571
4	chr8	39356825	39497557	140733	*	2.204028e-03	0.0123763747
5	chr6	32611466	32643872	32407	*	2.219750e-03	0.0150874888
6	chr6	32059186	32065343	6158	*	2.559934e-03	0.0068369823
7	chr15	19095051	19205581	110531	*	4.306767e-03	0.0150366480
8	chr17	41785962	41914286	128325	*	6.285804e-03	0.0109696610
9	chr6	32094298	32107594	13297	*	3.234971e-02	0.0462509861
10	chr6	32066939	32093133	26195	*	3.593753e-02	0.3073202023
11	chr6	32650822	32664356	13535	*	3.960053e-02	0.0660979881
12	chr16	33778130	33820307	42178	*	4.223034e-02	0.3164738758
13	chr11	55124465	55209499	85035	*	5.743147e-02	0.5299039325
14	chr3	75502426	75719139	216714	*	5.824234e-02	0.3020937569
15	chr14	18347035	18372086	25052	*	5.876744e-02	0.4131212565
16	chr5	97074222	97125076	50855	*	7.162678e-02	0.0854169058

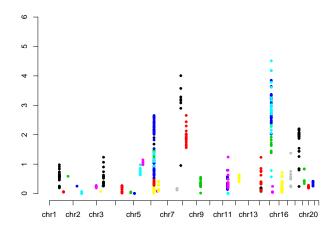


```
17
       chr1 103941535 104099390 157856
                                             * 1.051024e-01 0.2673147358
18
       chr5
            69359352 69433008 73657
                                             * 1.057531e-01 0.1806520425
19
       chr6
            31388080
                       31397263
                                   9184
                                             * 1.339235e-01 0.3760967641
            20404485
20
      chr19
                       20507068 102584
                                             * 1.456802e-01 0.3730938842
21
      chr11 48890168
                       48918267 28100
                                             * 1.614379e-01 0.4851229715
22
      chr16
            32404517
                       32530051 125535
                                             * 1.906860e-01 0.6826270270
23
      chr12 36404411
                       36532019 127609
                                             * 2.296317e-01 0.3155882184
24
       chr1 195087039 195087039
                                             * 2.583597e-01 0.2583597159
                                      1
       chr9 43594114
                       43674189 80076
                                             * 2.810095e-01 0.4630093877
   trans.median n.cmp
1
      0.3303571
                   21
2
                    8
      0.5410959
3
                   30
      0.3333333
4
                   17
     0.5363128
5
     0.3614458
                   43
6
                   5
     0.4492754
7
      0.3563218
                   13
8
                   22
      0.4536878
9
      0.2575758
                   11
10
      0.2727273
                   15
11
      0.2238806
                    9
12
      0.5162338
                   12
13
      0.5345796
                   26
14
      0.4319249
                   15
15
                   12
      0.4548281
16
      0.4782609
                   5
17
      0.4800000
                   25
18
      0.2622951
                    9
19
      0.4776119
                   14
20
      0.5013089
                    6
21
      0.4652926
                   20
22
      0.2768730
                  123
23
      0.1846154
                   7
24
      0.4035088
                    1
25
      0.3715278
                   14
GRanges with 1 range and 4 metadata columns:
      seqnames
                             ranges strand |
                                                          p.min
         <Rle>
                           <IRanges> <Rle> |
                                                       <numeric>
         chr16 [32404517, 32530051]
                                          * | 0.190686032146876
  [1]
               p.median
                             trans.median
                                               n.cmp
              <numeric>
                                 <numeric> <integer>
  [1] 0.682627027049546 0.276872964169381
  seqlengths:
```

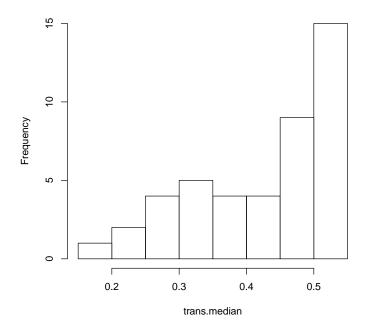


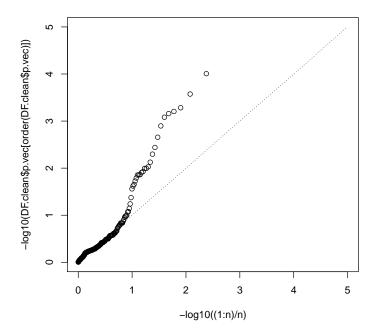


The outlier is on chromsome 16. It is a region with 123 components, and has width 125.535 kB. chr16:32404517-32530051. If we remove the outlying region on chromsome 16 we see the following.

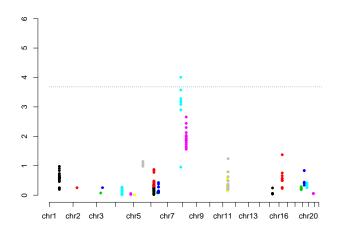


## Histogram of trans.median





> DF.clean <- DF[queryHits(findOverlaps(DF\$grange, regions.gr.clean)),
 ]</pre>



# Histogram of p.min

