

IGC Proportion

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Function for IGC proportion

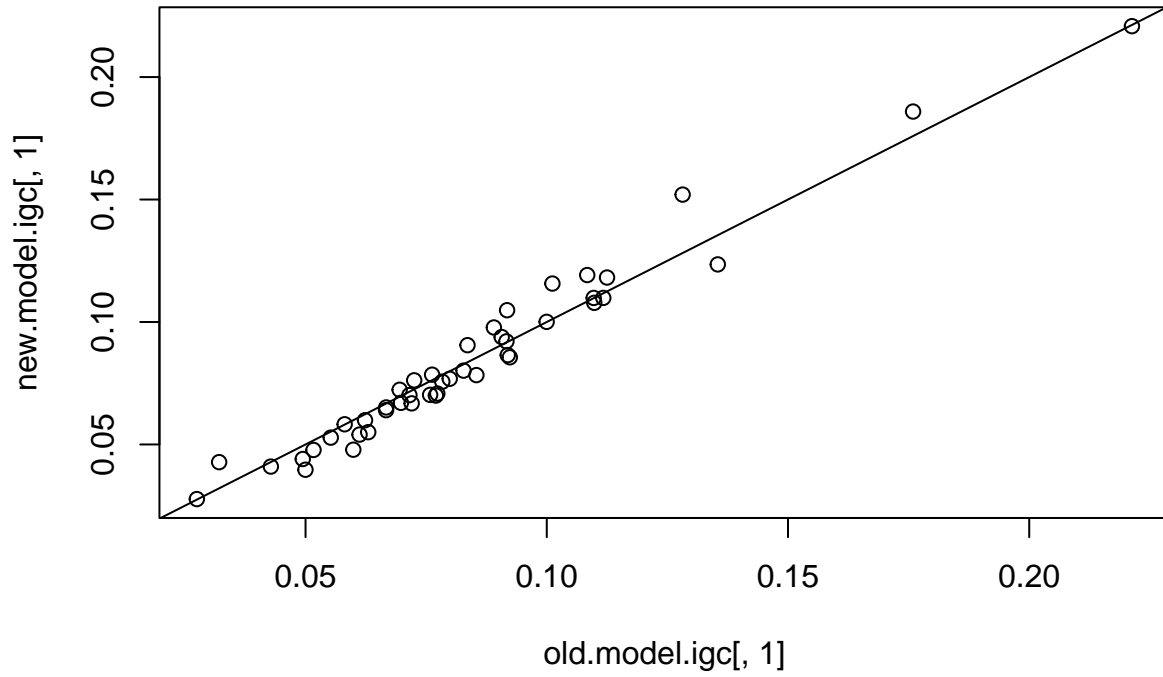
```
# Calculate proportion
igc.proportion <- function(dataset){
  out = c()
  namelist <- colnames(dataset)
  one2two <- c()
  two2one <- c()
  mut <- c()
  for(i in namelist){
    if(str_detect(i,"1->2")){
      if (str_detect(i,"NO")==FALSE){
        one2two <- append(one2two,i)
      }
    }

    if(str_detect(i,"2->1")){
      if (str_detect(i,"NO")==FALSE){
        two2one <- append(two2one,i)
      }
    }

    if(str_detect(i,"mut")){
      if (str_detect(i,"NO")==FALSE){
        mut <- append(mut,i)
      }
    }
  }
  for(j in 1:dim(dataset)[1]){
    one2twoSum <- sum(dataset[j, one2two])
    two2oneSum <- sum(dataset[j, two2one])
    mutSum <- sum(dataset[j, mut])
    num <- sum(one2twoSum, two2oneSum)
    den <- sum(num, mutSum)
    p = num/den
    out = rbind(out,c(rownames(dataset)[j], p))
  }
  out = data.frame(out, row.names = 1)
  names(out) = "proportion"
  out[,1] = as.numeric(out[,1])
  return(out)
}
```

```
}
```

```
old.model.igc=igc.proportion(IGC1_Full)  
new.model.igc=igc.proportion(IGC1_Full_igc0mega)  
plot(x=old.model.igc[,1],y=new.model.igc[,1])  
abline(a=0,b=1)
```



```
kable(new.model.igc)
```

	proportion
Pillar211	0.1191720
Pillar214	0.0784932
Pillar222	0.0651162
Pillar223	0.0756352
Pillar337	0.0855885
Pillar479	0.0440612
Pillar521	0.1235124
Pillar526	0.0478522
Pillar561	0.1078409
Pillar735	0.0905368
Pillar755	0.1098247
Pillar852	0.0707888
Pillar1050	0.0409776
Pillar1053	0.0527847
Pillar1215	0.0277038
Pillar2129	0.0701458
Pillar2158	0.1181557
Pillar2210	0.1098382
Pillar2214	0.0540358
Pillar2321	0.0702481
Pillar2358	0.0427820
Pillar2371	0.0396780
Pillar2382	0.0598994
Pillar2861	0.0761867
Pillar3278	0.0977675
Pillar3295	0.0864831
Pillar3309	0.1520163
Pillar3337	0.0801520
Pillar3346	0.0938545
Pillar3347	0.1156968
Pillar3390	0.0669940
Pillar3994	0.2207843
Pillar4025	0.0550147
Pillar4031	0.0477575
Pillar4063	0.1859297
Pillar4268	0.0582426
Pillar4287	0.0783140
Pillar4494	0.1000613
Pillar4553	0.1048092
Pillar4570	0.0768184
Pillar4932	0.0667739
Pillar5153	0.0699683
Pillar5233	0.0920953
Pillar5316	0.0640027
Pillar5550	0.0723260