dist_pval vs anova_centroid,mean-DE genes, cor -0.352 **dist_pval vs anova_centroid,var-DE genes, cor -0.213** **dist_pval vs anova_centroid,disp-DE genes, cor -0.349** **dist_pval vs anova_centroid,mult-DE genes, cor -0.127** **dist_pval vs anova_centroid,non-DE genes, cor -0.271**

dist_pval vs tukey_median,mean-DE genes, cor -0.381 **dist_pval vs tukey_median,var-DE genes, cor -0.207** **dist_pval vs tukey_median,disp-DE genes, cor -0.352** **dist_pval vs tukey_median,mult-DE genes, cor -0.135** **dist_pval vs tukey_median,non-DE genes, cor -0.275**

dist_pval vs anova_median,mean-DE genes, cor -0.381 **dist_pval vs anova_median,var-DE genes, cor -0.207** **dist_pval vs anova_median,disp-DE genes, cor -0.352** **dist_pval vs anova_median,mult-DE genes, cor -0.135** **dist_pval vs anova_median,non-DE genes, cor -0.275**

dist_pval vs anova_centroid,mean-DE genes, cor -0.369 · **dist_pval vs anova_centroid,var-DE genes, cor -0.463** · **dist_pval vs anova_centroid,disp-DE genes, cor -0.476** · **dist_pval vs anova_centroid,mult-DE genes, cor -0.414** · **dist_pval vs anova_centroid,non-DE genes, cor -0.431**

dist_pval vs tukey_median,mean-DE genes, cor -0.372 · **dist_pval vs tukey_median,var-DE genes, cor -0.435** · **dist_pval vs tukey_median,disp-DE genes, cor -0.435** · **dist_pval vs tukey_median,mult-DE genes, cor -0.402** · **dist_pval vs tukey_median,non-DE genes, cor -0.409**

dist_pval vs anova_median,mean-DE genes, cor -0.372 · **dist_pval vs anova_median,var-DE genes, cor -0.435** · **dist_pval vs anova_median,disp-DE genes, cor -0.435** · **dist_pval vs anova_median,mult-DE genes, cor -0.402** · **dist_pval vs anova_median,non-DE genes, cor -0.409**

Row 1: pval of mean-DE genes, dist method | pval of var-DE genes, dist method | pval of disp-DE genes, dist method | pval of mult-DE genes, dist method | pval of non-DE genes, dist method

Row 2: pval of mean-DE genes, anova_median_pval<=0.05 | pval of var-DE genes, anova_median_pval<=0.05 | pval of disp-DE genes, anova_median_pval<=0.05 | pval of mult-DE genes, anova_median_pval<=0.05 | pval of non-DE genes, anova_median_pval<=0.05

Row 3: pval of mean-DE genes, anova_median_pval>0.05 | pval of var-DE genes, anova_median_pval>0.05 | pval of disp-DE genes, anova_median_pval>0.05 | pval of mult-DE genes, anova_median_pval>0.05 | pval of non-DE genes, anova_median_pval>0.05

Row 4: pval of mean-DE genes, tie>2 | pval of var-DE genes, tie>2 | pval of disp-DE genes, tie>2 | pval of mult-DE genes, tie>2 | pval of non-DE genes, tie>2

Row 5: pval of mean-DE genes, tie<=2 | pval of var-DE genes, tie<=2 | pval of disp-DE genes, tie<=2 | pval of mult-DE genes, tie<=2 | pval of non-DE genes, tie<=2

Top row (left to right): pval of mean-DE genes,dist method | pval of var-DE genes,dist method | pval of disp-DE genes,dist method | pval of mult-DE genes,dist method | pval of non-DE genes,dist method

Second row: pval of mean-DE genes,tukey_centroid | pval of var-DE genes,tukey_centroid | pval of disp-DE genes,tukey_centroid | pval of mult-DE genes,tukey_centroid | pval of non-DE genes,tukey_centroid

Third row: pval of mean-DE genes,anova_centroid | pval of var-DE genes,anova_centroid | pval of disp-DE genes,anova_centroid | pval of mult-DE genes,anova_centroid | pval of non-DE genes,anova_centroid

Fourth row: pval of mean-DE genes,tukey_median | pval of var-DE genes,tukey_median | pval of disp-DE genes,tukey_median | pval of mult-DE genes,tukey_median | pval of non-DE genes,tukey_median

Fifth row: pval of mean-DE genes,anova_median | pval of var-DE genes,anova_median | pval of disp-DE genes,anova_median | pval of mult-DE genes,anova_median | pval of non-DE genes,anova_median

Bottom row: dist_pval vs tukey_centroid,mean-DE genes, cor −0.506 | dist_pval vs tukey_centroid,var-DE genes, cor −0.412 | dist_pval vs tukey_centroid,disp-DE genes, cor −0.472 | dist_pval vs tukey_centroid,mult-DE genes, cor −0.357 | dist_pval vs tukey_centroid,non-DE genes, cor −0.369

pval of mean-DE genes,dist method	pval of var-DE genes,dist method	pval of disp-DE genes,dist method	pval of mult-DE genes,dist method	pval of non-DE genes,dist method
pval of mean-DE genes,tukey_centroid	pval of var-DE genes,tukey_centroid	pval of disp-DE genes,tukey_centroid	pval of mult-DE genes,tukey_centroid	pval of non-DE genes,tukey_centroid
pval of mean-DE genes,anova_centroid	pval of var-DE genes,anova_centroid	pval of disp-DE genes,anova_centroid	pval of mult-DE genes,anova_centroid	pval of non-DE genes,anova_centroid
pval of mean-DE genes,tukey_median	pval of var-DE genes,tukey_median	pval of disp-DE genes,tukey_median	pval of mult-DE genes,tukey_median	pval of non-DE genes,tukey_median
pval of mean-DE genes,anova_median	pval of var-DE genes,anova_median	pval of disp-DE genes,anova_median	pval of mult-DE genes,anova_median	pval of non-DE genes,anova_median
dist_pval vs tukey_centroid,mean-DE genes, cor −0.476	dist_pval vs tukey_centroid,var-DE genes, cor −0.384	dist_pval vs tukey_centroid,disp-DE genes, cor −0.403	dist_pval vs tukey_centroid,mult-DE genes, cor −0.408	dist_pval vs tukey_centroid,non-DE genes, cor −0.445

dist_pval vs anova_centroid,mean–DE genes, cor –0.476 | dist_pval vs anova_centroid,var–DE genes, cor –0.384 | dist_pval vs anova_centroid,disp–DE genes, cor –0.403 | dist_pval vs anova_centroid,mult–DE genes, cor –0.408 | dist_pval vs anova_centroid,non–DE genes, cor –0.445

dist_pval vs tukey_median,mean–DE genes, cor –0.446 | dist_pval vs tukey_median,var–DE genes, cor –0.385 | dist_pval vs tukey_median,disp–DE genes, cor –0.392 | dist_pval vs tukey_median,mult–DE genes, cor –0.376 | dist_pval vs tukey_median,non–DE genes, cor –0.434

dist_pval vs anova_median,mean–DE genes, cor –0.446 | dist_pval vs anova_median,var–DE genes, cor –0.385 | dist_pval vs anova_median,disp–DE genes, cor –0.392 | dist_pval vs anova_median,mult–DE genes, cor –0.376 | dist_pval vs anova_median,non–DE genes, cor –0.434

dist_pval vs anova_centroid,mean-DE genes, cor -0.532 | **dist_pval vs anova_centroid,var-DE genes, cor -0.356** | **dist_pval vs anova_centroid,disp-DE genes, cor -0.439** | **dist_pval vs anova_centroid,mult-DE genes, cor -0.439** | **dist_pval vs anova_centroid,non-DE genes, cor -0.444**

dist_pval vs tukey_median,mean-DE genes, cor -0.503 | **dist_pval vs tukey_median,var-DE genes, cor -0.347** | **dist_pval vs tukey_median,disp-DE genes, cor -0.406** | **dist_pval vs tukey_median,mult-DE genes, cor -0.445** | **dist_pval vs tukey_median,non-DE genes, cor -0.429**

dist_pval vs anova_median,mean-DE genes, cor -0.503 | **dist_pval vs anova_median,var-DE genes, cor -0.347** | **dist_pval vs anova_median,disp-DE genes, cor -0.406** | **dist_pval vs anova_median,mult-DE genes, cor -0.445** | **dist_pval vs anova_median,non-DE genes, cor -0.429**

dist_pval vs anova_centroid,mean-DE genes, cor -0.371 | **dist_pval vs anova_centroid,var-DE genes, cor -0.366** | **dist_pval vs anova_centroid,disp-DE genes, cor -0.409** | **dist_pval vs anova_centroid,mult-DE genes, cor -0.307** | **dist_pval vs anova_centroid,non-DE genes, cor -0.382**

dist_pval vs tukey_median,mean-DE genes, cor -0.358 | **dist_pval vs tukey_median,var-DE genes, cor -0.367** | **dist_pval vs tukey_median,disp-DE genes, cor -0.384** | **dist_pval vs tukey_median,mult-DE genes, cor -0.342** | **dist_pval vs tukey_median,non-DE genes, cor -0.373**

dist_pval vs anova_median,mean-DE genes, cor -0.358 | **dist_pval vs anova_median,var-DE genes, cor -0.367** | **dist_pval vs anova_median,disp-DE genes, cor -0.384** | **dist_pval vs anova_median,mult-DE genes, cor -0.342** | **dist_pval vs anova_median,non-DE genes, cor -0.373**

Row 1: pval of mean-DE genes,dist method | pval of var-DE genes,dist method | pval of disp-DE genes,dist method | pval of mult-DE genes,dist method | pval of non-DE genes,dist method

Row 2: pval of mean-DE genes,tukey_centroid | pval of var-DE genes,tukey_centroid | pval of disp-DE genes,tukey_centroid | pval of mult-DE genes,tukey_centroid | pval of non-DE genes,tukey_centroid

Row 3: pval of mean-DE genes,anova_centroid | pval of var-DE genes,anova_centroid | pval of disp-DE genes,anova_centroid | pval of mult-DE genes,anova_centroid | pval of non-DE genes,anova_centroid

Row 4: pval of mean-DE genes,tukey_median | pval of var-DE genes,tukey_median | pval of disp-DE genes,tukey_median | pval of mult-DE genes,tukey_median | pval of non-DE genes,tukey_median

Row 5: pval of mean-DE genes,anova_median | pval of var-DE genes,anova_median | pval of disp-DE genes,anova_median | pval of mult-DE genes,anova_median | pval of non-DE genes,anova_median

Row 6: dist_pval vs tukey_centroid,mean-DE genes, cor −0.257 | dist_pval vs tukey_centroid,var-DE genes, cor −0.219 | dist_pval vs tukey_centroid,disp-DE genes, cor −0.213 | dist_pval vs tukey_centroid,mult-DE genes, cor −0.264 | dist_pval vs tukey_centroid,non-DE genes, cor −0.256

dist_pval vs anova_centroid,mean-DE genes, cor -0.257 · **dist_pval vs anova_centroid,var-DE genes, cor -0.219** · **dist_pval vs anova_centroid,disp-DE genes, cor -0.213** · **dist_pval vs anova_centroid,mult-DE genes, cor -0.264** · **dist_pval vs anova_centroid,non-DE genes, cor -0.256**

dist_pval vs tukey_median,mean-DE genes, cor -0.224 · **dist_pval vs tukey_median,var-DE genes, cor -0.177** · **dist_pval vs tukey_median,disp-DE genes, cor -0.202** · **dist_pval vs tukey_median,mult-DE genes, cor -0.241** · **dist_pval vs tukey_median,non-DE genes, cor -0.237**

dist_pval vs anova_median,mean-DE genes, cor -0.224 · **dist_pval vs anova_median,var-DE genes, cor -0.177** · **dist_pval vs anova_median,disp-DE genes, cor -0.202** · **dist_pval vs anova_median,mult-DE genes, cor -0.241** · **dist_pval vs anova_median,non-DE genes, cor -0.237**

dist_pval vs anova_centroid,mean-DE genes, cor -0.442
dist_pval vs anova_centroid,var-DE genes, cor -0.414
dist_pval vs anova_centroid,disp-DE genes, cor -0.459
dist_pval vs anova_centroid,mult-DE genes, cor -0.383
dist_pval vs anova_centroid,non-DE genes, cor -0.44

dist_pval vs tukey_median,mean-DE genes, cor -0.422
dist_pval vs tukey_median,var-DE genes, cor -0.409
dist_pval vs tukey_median,disp-DE genes, cor -0.411
dist_pval vs tukey_median,mult-DE genes, cor -0.346
dist_pval vs tukey_median,non-DE genes, cor -0.412

dist_pval vs anova_median,mean-DE genes, cor -0.422
dist_pval vs anova_median,var-DE genes, cor -0.409
dist_pval vs anova_median,disp-DE genes, cor -0.411
dist_pval vs anova_median,mult-DE genes, cor -0.346
dist_pval vs anova_median,non-DE genes, cor -0.412

pval of mean-DE genes,dist method	pval of var-DE genes,dist method	pval of disp-DE genes,dist method	pval of mult-DE genes,dist method	pval of non-DE genes,dist method

pval of mean-DE genes,tukey_centroid	pval of var-DE genes,tukey_centroid	pval of disp-DE genes,tukey_centroid	pval of mult-DE genes,tukey_centroid	pval of non-DE genes,tukey_centroid

pval of mean-DE genes,anova_centroid	pval of var-DE genes,anova_centroid	pval of disp-DE genes,anova_centroid	pval of mult-DE genes,anova_centroid	pval of non-DE genes,anova_centroid

pval of mean-DE genes,tukey_median	pval of var-DE genes,tukey_median	pval of disp-DE genes,tukey_median	pval of mult-DE genes,tukey_median	pval of non-DE genes,tukey_median

pval of mean-DE genes,anova_median	pval of var-DE genes,anova_median	pval of disp-DE genes,anova_median	pval of mult-DE genes,anova_median	pval of non-DE genes,anova_median

dist_pval vs tukey_centroid,mean-DE genes, cor −0.401	dist_pval vs tukey_centroid,var-DE genes, cor −0.345	dist_pval vs tukey_centroid,disp-DE genes, cor −0.405	dist_pval vs tukey_centroid,mult-DE genes, cor −0.336	dist_pval vs tukey_centroid,non-DE genes, cor −0.384

Row 1:
- pval of mean-DE genes,dist method
- pval of var-DE genes,dist method
- pval of disp-DE genes,dist method
- pval of mult-DE genes,dist method
- pval of non-DE genes,dist method

Row 2:
- pval of mean-DE genes,tukey_centroid
- pval of var-DE genes,tukey_centroid
- pval of disp-DE genes,tukey_centroid
- pval of mult-DE genes,tukey_centroid
- pval of non-DE genes,tukey_centroid

Row 3:
- pval of mean-DE genes,anova_centroid
- pval of var-DE genes,anova_centroid
- pval of disp-DE genes,anova_centroid
- pval of mult-DE genes,anova_centroid
- pval of non-DE genes,anova_centroid

Row 4:
- pval of mean-DE genes,tukey_median
- pval of var-DE genes,tukey_median
- pval of disp-DE genes,tukey_median
- pval of mult-DE genes,tukey_median
- pval of non-DE genes,tukey_median

Row 5:
- pval of mean-DE genes,anova_median
- pval of var-DE genes,anova_median
- pval of disp-DE genes,anova_median
- pval of mult-DE genes,anova_median
- pval of non-DE genes,anova_median

Row 6:
- dist_pval vs tukey_centroid,mean-DE genes, cor −0.491
- dist_pval vs tukey_centroid,var-DE genes, cor −0.447
- dist_pval vs tukey_centroid,disp-DE genes, cor −0.532
- dist_pval vs tukey_centroid,mult-DE genes, cor −0.557
- dist_pval vs tukey_centroid,non-DE genes, cor −0.461

pval of mean-DE genes,dist method	pval of var-DE genes,dist method	pval of disp-DE genes,dist method	pval of mult-DE genes,dist method	pval of non-DE genes,dist method
pval of mean-DE genes,anova_median_pval<=0.05	pval of var-DE genes,anova_median_pval<=0.05	pval of disp-DE genes,anova_median_pval<=0.05	pval of mult-DE genes,anova_median_pval<=0.05	pval of non-DE genes,anova_median_pval<=0.05
pval of mean-DE genes,anova_median_pval>0.05	pval of var-DE genes,anova_median_pval>0.05	pval of disp-DE genes,anova_median_pval>0.05	pval of mult-DE genes,anova_median_pval>0.05	pval of non-DE genes,anova_median_pval>0.05
pval of mean-DE genes,tie>2	pval of var-DE genes,tie>2	pval of disp-DE genes,tie>2	pval of mult-DE genes,tie>2	pval of non-DE genes,tie>2
pval of mean-DE genes,tie<=2	pval of var-DE genes,tie<=2	pval of disp-DE genes,tie<=2	pval of mult-DE genes,tie<=2	pval of non-DE genes,tie<=2

Row 1: pval of mean-DE genes, dist method; pval of var-DE genes, dist method; pval of disp-DE genes, dist method; pval of mult-DE genes, dist method; pval of non-DE genes, dist method

Row 2: pval of mean-DE genes, tukey_centroid; pval of var-DE genes, tukey_centroid; pval of disp-DE genes, tukey_centroid; pval of mult-DE genes, tukey_centroid; pval of non-DE genes, tukey_centroid

Row 3: pval of mean-DE genes, anova_centroid; pval of var-DE genes, anova_centroid; pval of disp-DE genes, anova_centroid; pval of mult-DE genes, anova_centroid; pval of non-DE genes, anova_centroid

Row 4: pval of mean-DE genes, tukey_median; pval of var-DE genes, tukey_median; pval of disp-DE genes, tukey_median; pval of mult-DE genes, tukey_median; pval of non-DE genes, tukey_median

Row 5: pval of mean-DE genes, anova_median; pval of var-DE genes, anova_median; pval of disp-DE genes, anova_median; pval of mult-DE genes, anova_median; pval of non-DE genes, anova_median

Row 6: dist_pval vs tukey_centroid, mean-DE genes, cor −0.403; dist_pval vs tukey_centroid, var-DE genes, cor −0.366; dist_pval vs tukey_centroid, disp-DE genes, cor −0.436; dist_pval vs tukey_centroid, mult-DE genes, cor −0.312; dist_pval vs tukey_centroid, non-DE genes, cor −0.407

Row 1:
- pval of mean-DE genes, dist method
- pval of var-DE genes, dist method
- pval of disp-DE genes, dist method
- pval of mult-DE genes, dist method
- pval of non-DE genes, dist method

Row 2:
- pval of mean-DE genes, tukey_centroid
- pval of var-DE genes, tukey_centroid
- pval of disp-DE genes, tukey_centroid
- pval of mult-DE genes, tukey_centroid
- pval of non-DE genes, tukey_centroid

Row 3:
- pval of mean-DE genes, anova_centroid
- pval of var-DE genes, anova_centroid
- pval of disp-DE genes, anova_centroid
- pval of mult-DE genes, anova_centroid
- pval of non-DE genes, anova_centroid

Row 4:
- pval of mean-DE genes, tukey_median
- pval of var-DE genes, tukey_median
- pval of disp-DE genes, tukey_median
- pval of mult-DE genes, tukey_median
- pval of non-DE genes, tukey_median

Row 5:
- pval of mean-DE genes, anova_median
- pval of var-DE genes, anova_median
- pval of disp-DE genes, anova_median
- pval of mult-DE genes, anova_median
- pval of non-DE genes, anova_median

Row 6:
- dist_pval vs tukey_centroid, mean-DE genes, cor −0.4
- dist_pval vs tukey_centroid, var-DE genes, cor −0.323
- dist_pval vs tukey_centroid, disp-DE genes, cor −0.419
- dist_pval vs tukey_centroid, mult-DE genes, cor −0.342
- dist_pval vs tukey_centroid, non-DE genes, cor −0.396

Row 1:
- dist_pval vs anova_centroid,mean-DE genes, cor −0.4
- dist_pval vs anova_centroid,var-DE genes, cor −0.323
- dist_pval vs anova_centroid,disp-DE genes, cor −0.419
- dist_pval vs anova_centroid,mult-DE genes, cor −0.342
- dist_pval vs anova_centroid,non-DE genes, cor −0.396

Row 2:
- dist_pval vs tukey_median,mean-DE genes, cor −0.384
- dist_pval vs tukey_median,var-DE genes, cor −0.31
- dist_pval vs tukey_median,disp-DE genes, cor −0.387
- dist_pval vs tukey_median,mult-DE genes, cor −0.343
- dist_pval vs tukey_median,non-DE genes, cor −0.383

Row 3:
- dist_pval vs anova_median,mean-DE genes, cor −0.384
- dist_pval vs anova_median,var-DE genes, cor −0.31
- dist_pval vs anova_median,disp-DE genes, cor −0.387
- dist_pval vs anova_median,mult-DE genes, cor −0.343
- dist_pval vs anova_median,non-DE genes, cor −0.383

dist_pval vs anova_centroid,mean-DE genes, cor −0.321
dist_pval vs anova_centroid,var-DE genes, cor −0.402
dist_pval vs anova_centroid,disp-DE genes, cor −0.432
dist_pval vs anova_centroid,mult-DE genes, cor −0.361
dist_pval vs anova_centroid,non-DE genes, cor −0.412

dist_pval vs tukey_median,mean-DE genes, cor −0.314
dist_pval vs tukey_median,var-DE genes, cor −0.372
dist_pval vs tukey_median,disp-DE genes, cor −0.397
dist_pval vs tukey_median,mult-DE genes, cor −0.348
dist_pval vs tukey_median,non-DE genes, cor −0.413

dist_pval vs anova_median,mean-DE genes, cor −0.314
dist_pval vs anova_median,var-DE genes, cor −0.372
dist_pval vs anova_median,disp-DE genes, cor −0.397
dist_pval vs anova_median,mult-DE genes, cor −0.348
dist_pval vs anova_median,non-DE genes, cor −0.413