

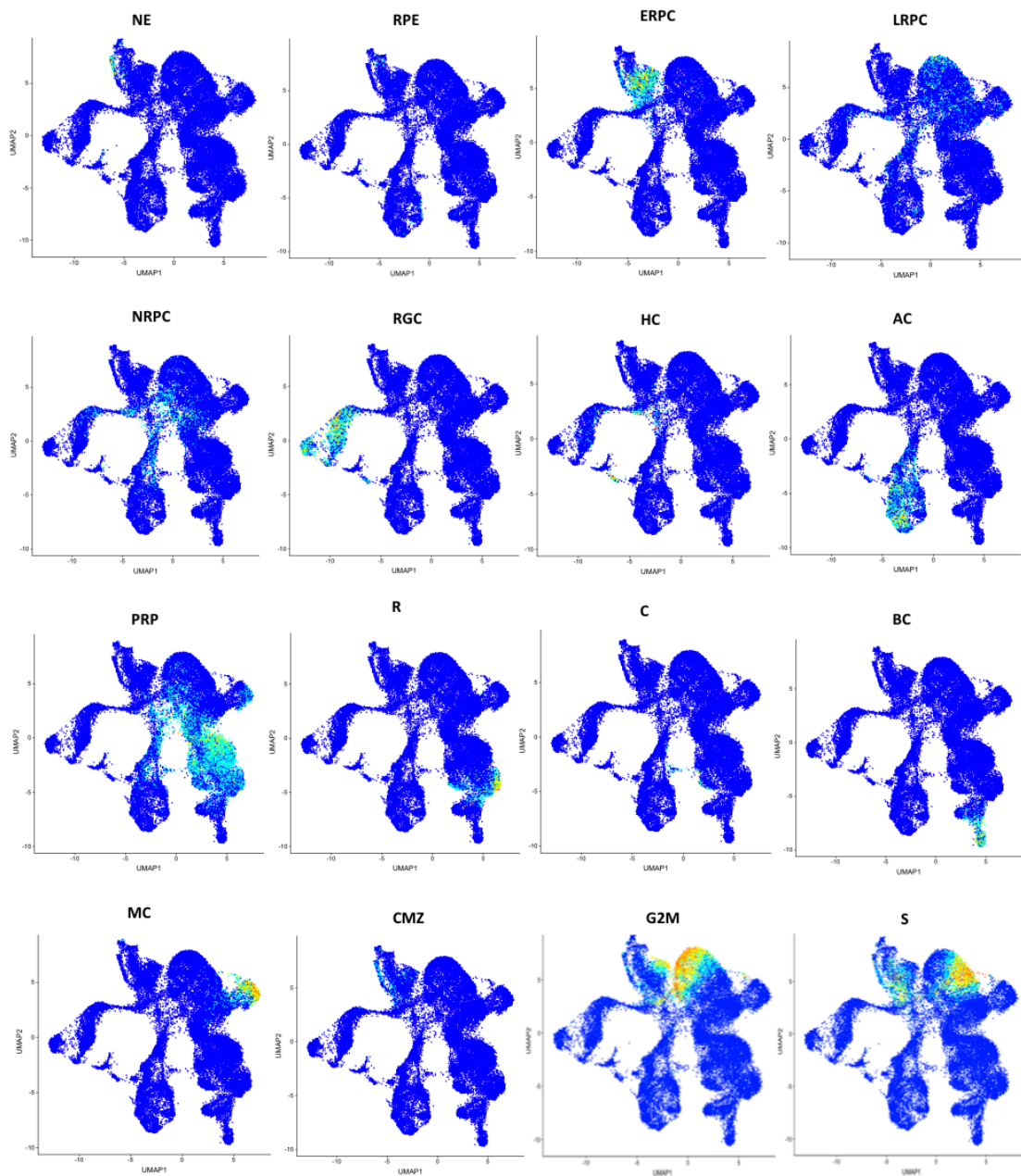
Supplemental Material

Combined analysis of single cell RNA-Seq and ATAC-Seq data reveals regulatory toggles operating in native and iPS-derived retina.

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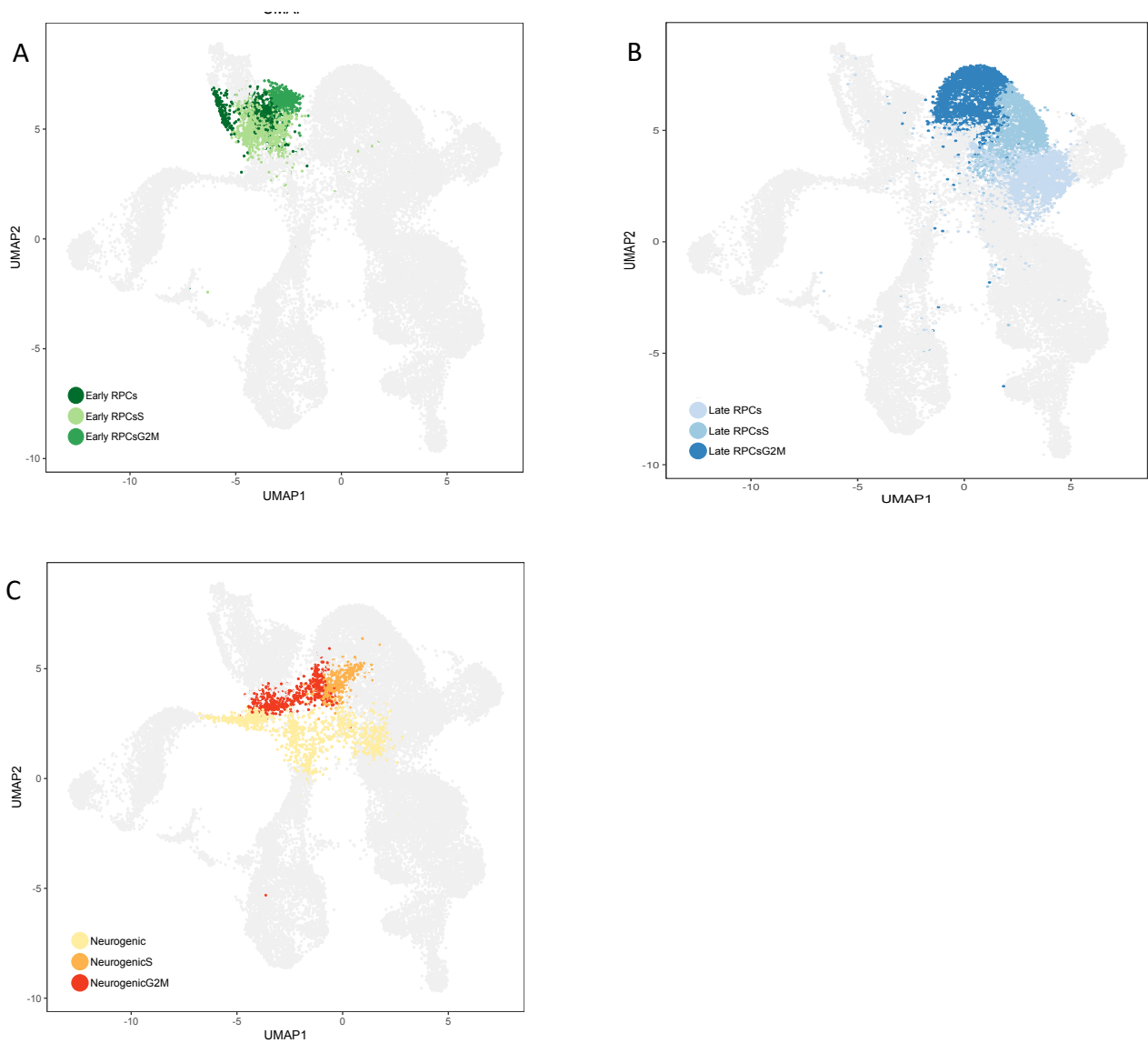
¹GIGA Stem Cells, GIGA Institute, University of Liège, Belgium. ²Department of Ophthalmology, Faculty of Medicine and CHU University Hospital, University of Liège, Belgium. ³GIGA Medical Genomics, GIGA Institute, University of Liège, Belgium. ⁴GIGA Genomics Platform, GIGA Institute, University of Liège, Belgium. ⁵Laboratory for Retinal Regeneration, Center for Developmental Biology, RIKEN, Japan. ⁶Digital Business, HEC Management School, University of Liège, Belgium. ⁷Senior Visiting Scientist, Laboratory for Retinal Regeneration, Center for Biosystems Dynamics Research, RIKEN, Japan.

Supplemental figure 1:



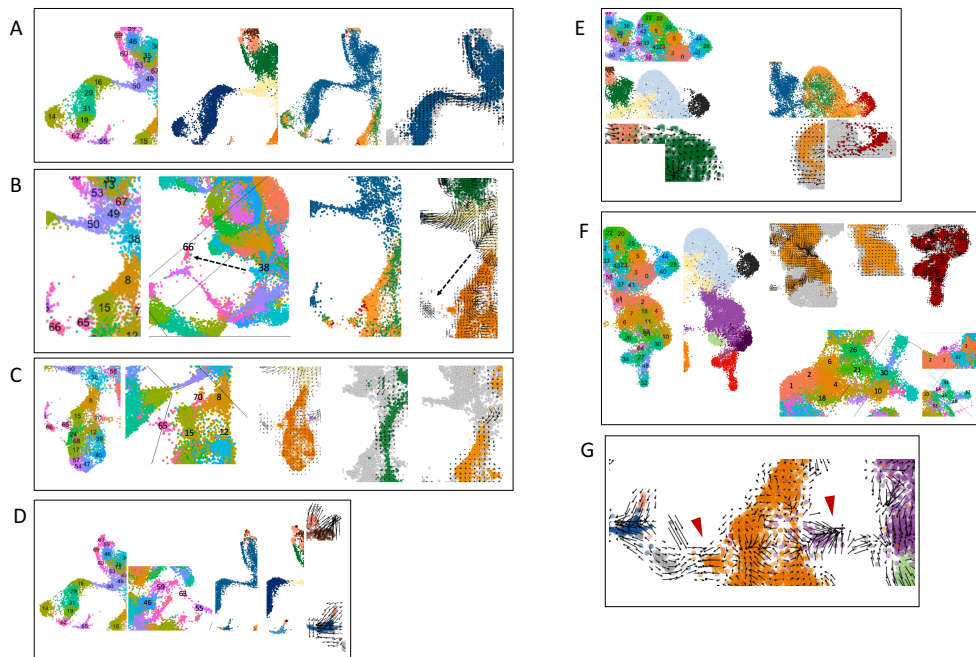
UMAP manifolds showing (from upper left to lower right): (i) gene expression signatures for 13 previously recognized retinal cell types: NE, RPE, ERPCs, LRPCs, NRPCs, RGC, AC, HC, PRP, R, C, BC and MC; (ii) gene expression signature typical of the NE/ciliary marginal zone (CMZ), and (iii) gene expression signatures specific for the S and G2-M phases of the cell cycle. The genes underlying each signature are as in Suppl. Table 3.

Supplemental figure 2



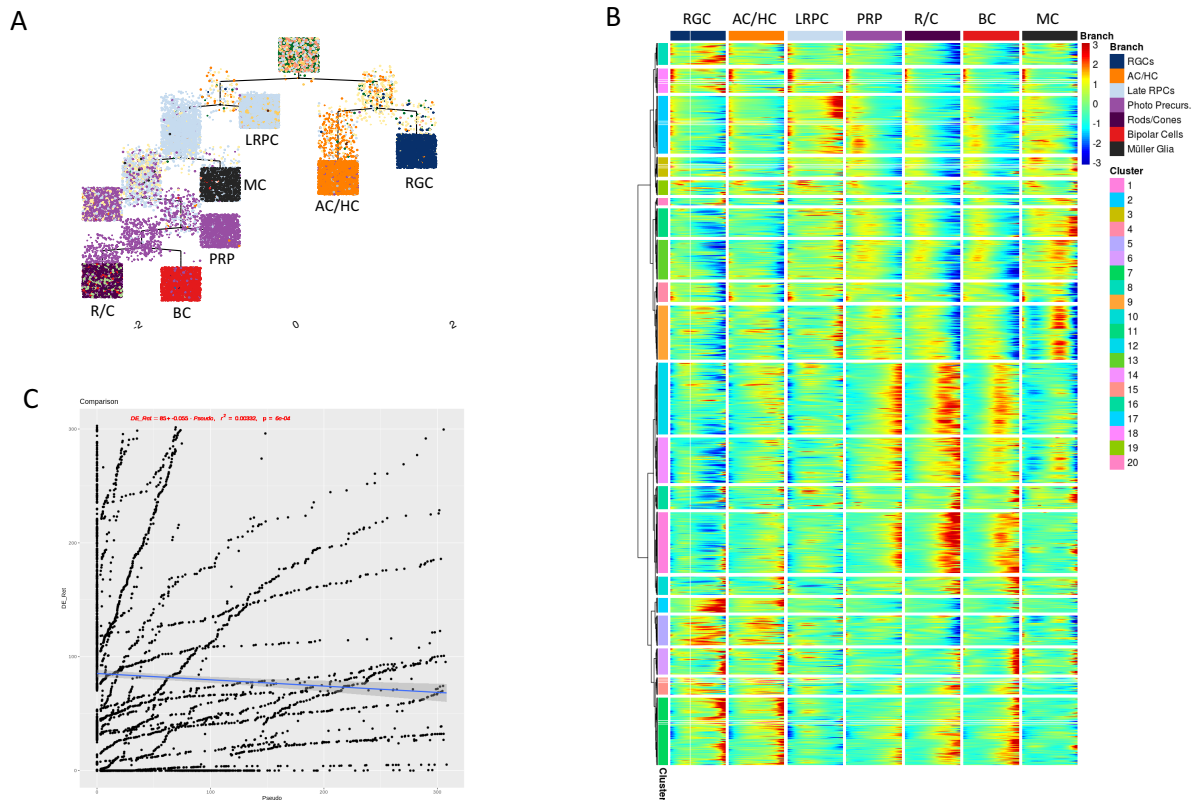
Separating dividing early (ERPC) (A), late (LRPC) (B) and neurogenic (NRPC) (C) retinal precursor cells by cell cycle stage (G1, S, G2M) based on the expression of genes that are specific for the S and G2M stage (Tirosh et al, 2016).

Supplemental figure 3



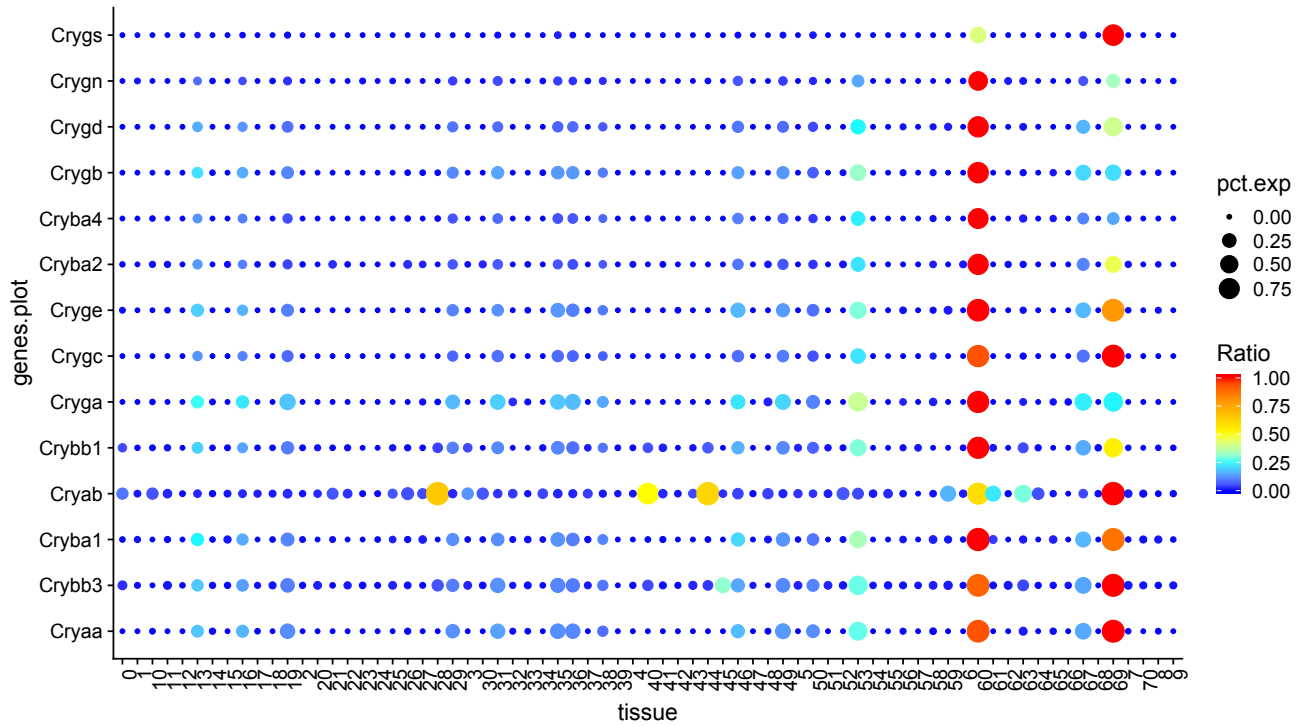
Combining information from (i) the cells' developmental stage, (ii) RNA velocity analyses, and (iii) the 3D UMAP manifold, to deduce developmental trajectories for (A) RGC; (B) HC; (C) AC; (D) Tbr1⁺RGC and RPE; (E) NE, ERPC, LRPC, NRPC and MC; (F) PRP, R, C and BC; (G) red arrows show "re-specification" of AC into HC and into PRP. Consult videos (<http://www.sig.hec.ulg.ac.be/giga>) for visit in 3D.

Supplemental figure 4



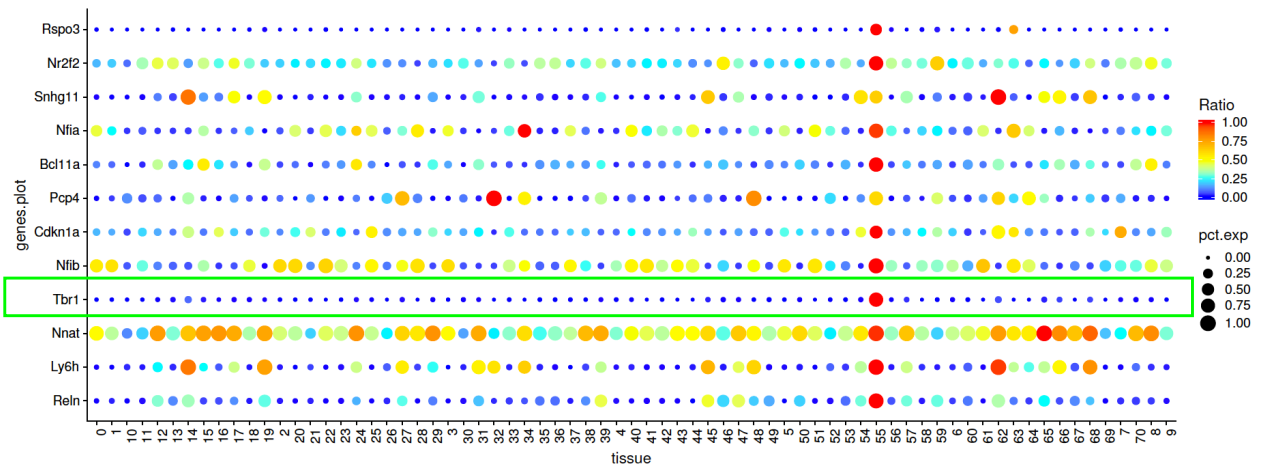
(A) Developmental trajectory obtained without supervision with Monocle 2 (Trapnell et al., 2014) using NaR cells only. Colors correspond to “cliques” as defined in the main text and color-coded as in the main figures. As expected, terminal leaves correspond to terminally differentiated cell types (from left to right: R/C, BC, MC, AC/HC and RGC) or to niches of progenitor cells (LRPC, PRP). **(B)** Expression levels (in pseudo-color) along the seven branches of the Monocle 2 tree (X axis) of 10,269 genes that are dynamically regulated as a function of pseudo-time ($q < 0.0001$) and grouped in 20 clusters according to their expression pattern (Y axis). **(C)** $\log(1/p)$ values of all genes in the differential expression analysis (each clique versus all others; see main text) (X axis) and the Monocle 2 analysis (Y axis), showing the strong concordance between the two approaches

Supplemental figure 5:



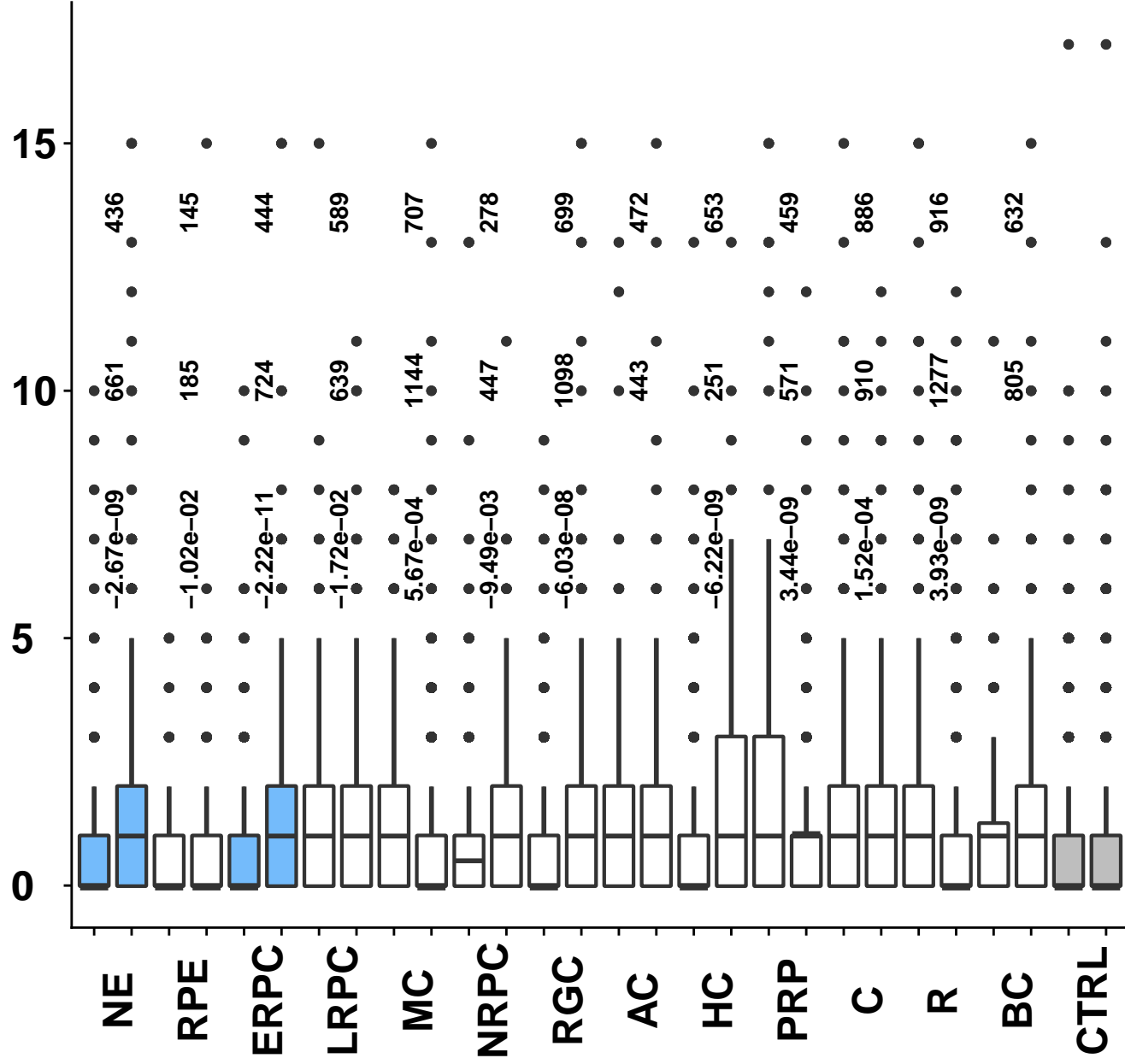
Level of expression in all 70 clusters of 14 crystallin genes. The 14 chosen crystallin genes are the ones ranked amongst the top 24 genes differentially expressed in the CMZ (=cluster 60 + cluster 69) compared to all other cliques.

Supplemental figure 6:

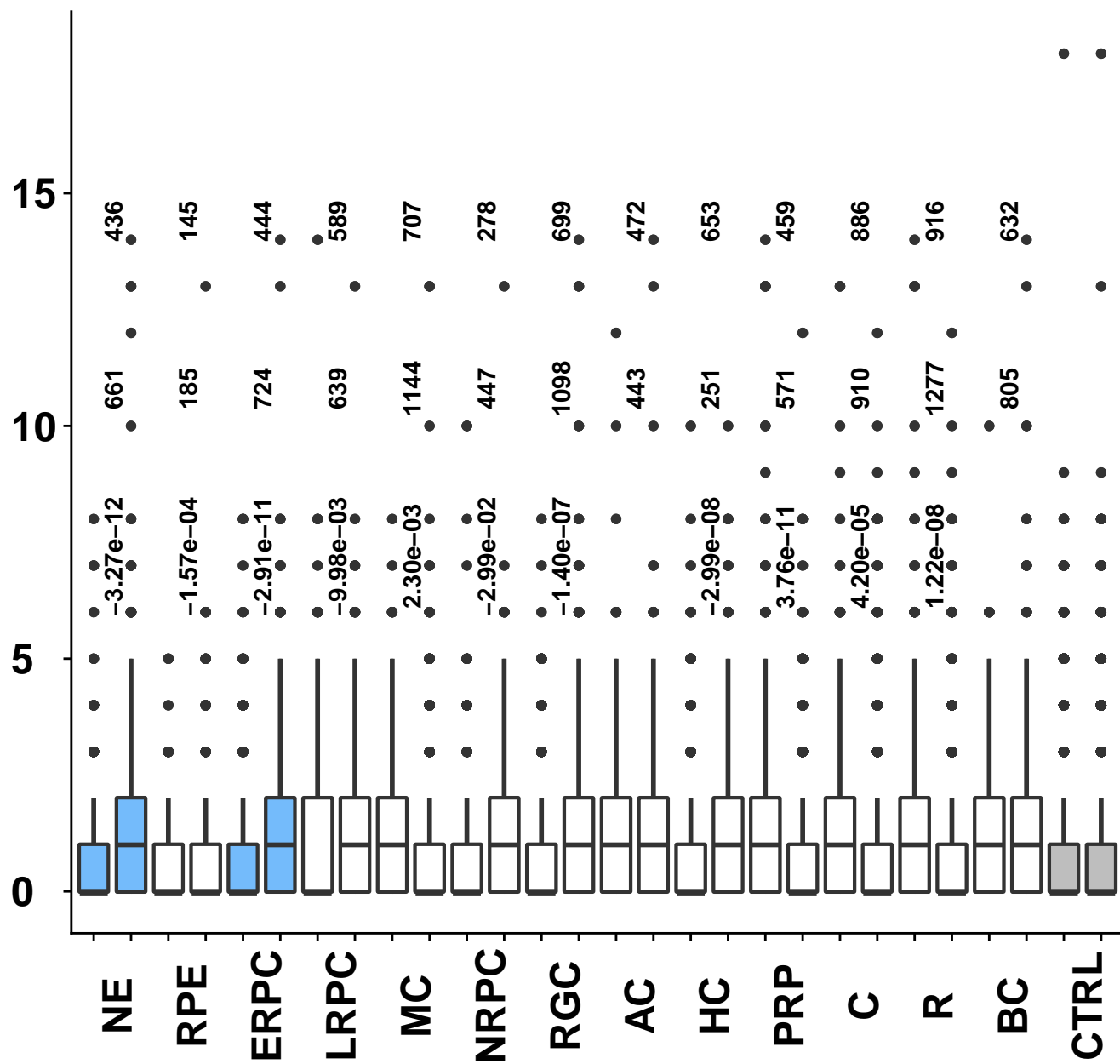


Level of expression in all 70 clusters of the top-ranked genes differentially expressed in Tbr1+RGC clique (=cluster 55) compared to all other clusters. Tbr1 transcription factor is exclusively expressed cluster 55 hence identifying it as a recently described subgroup of Tbr1⁺RGC.

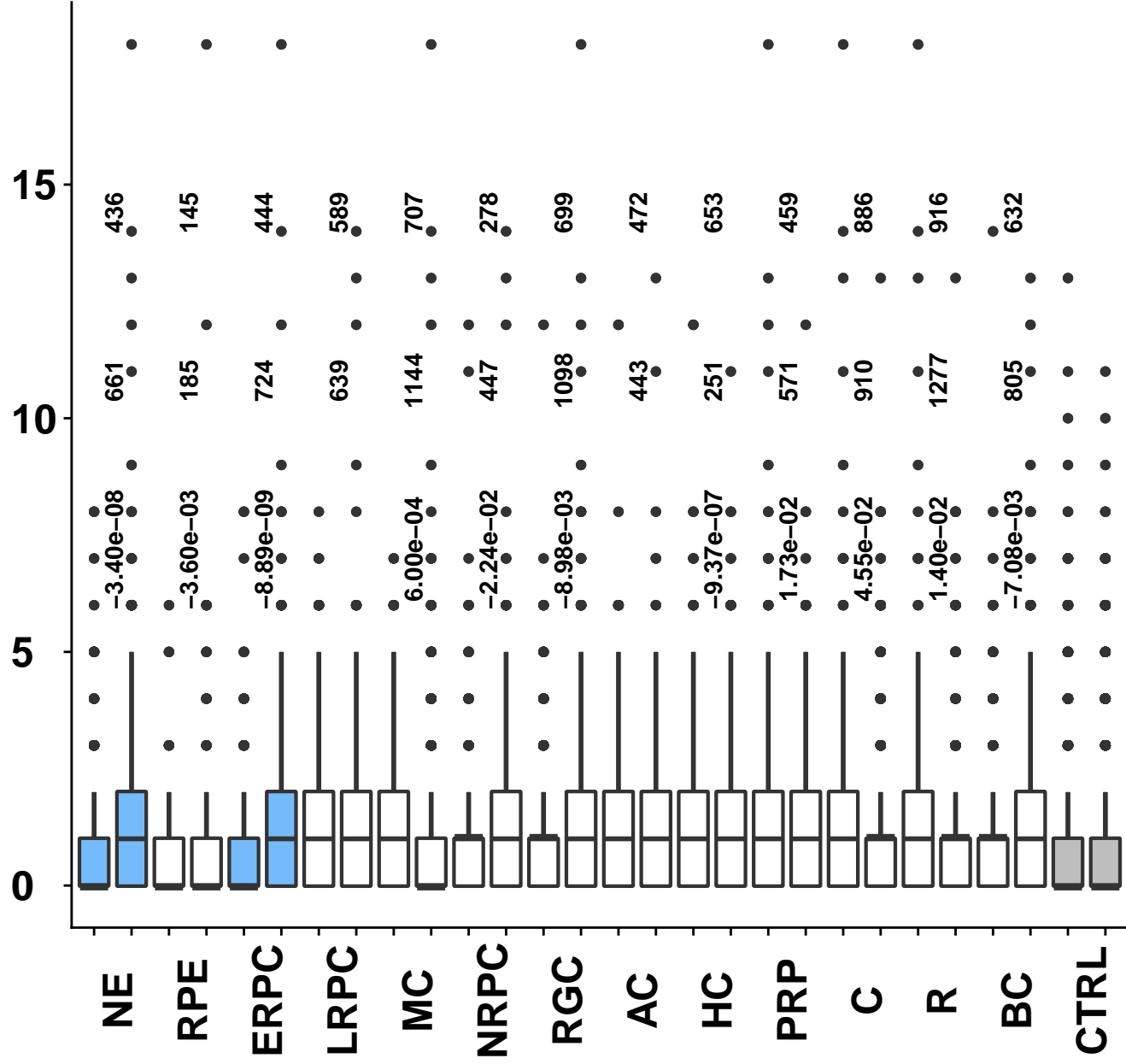
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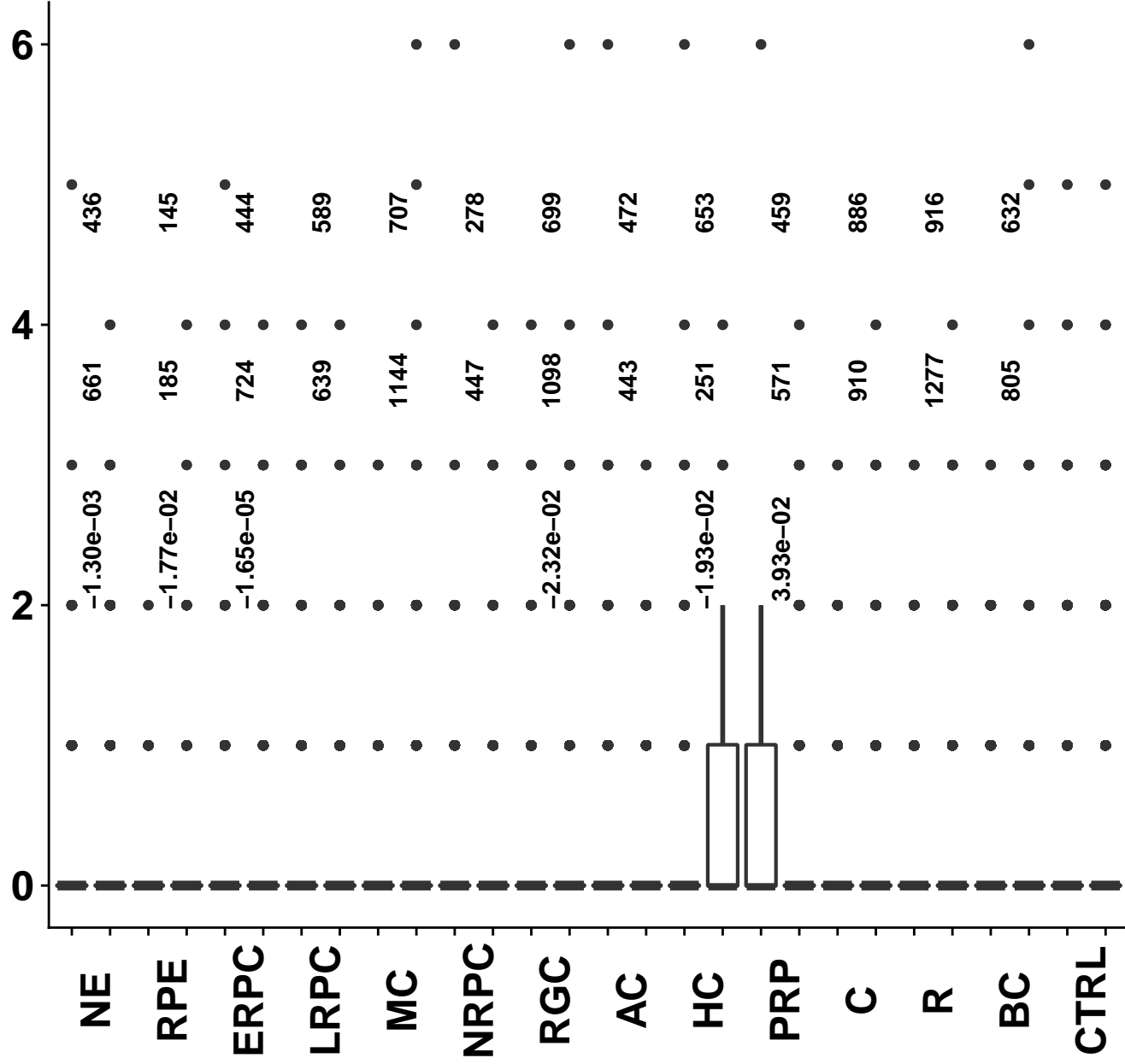
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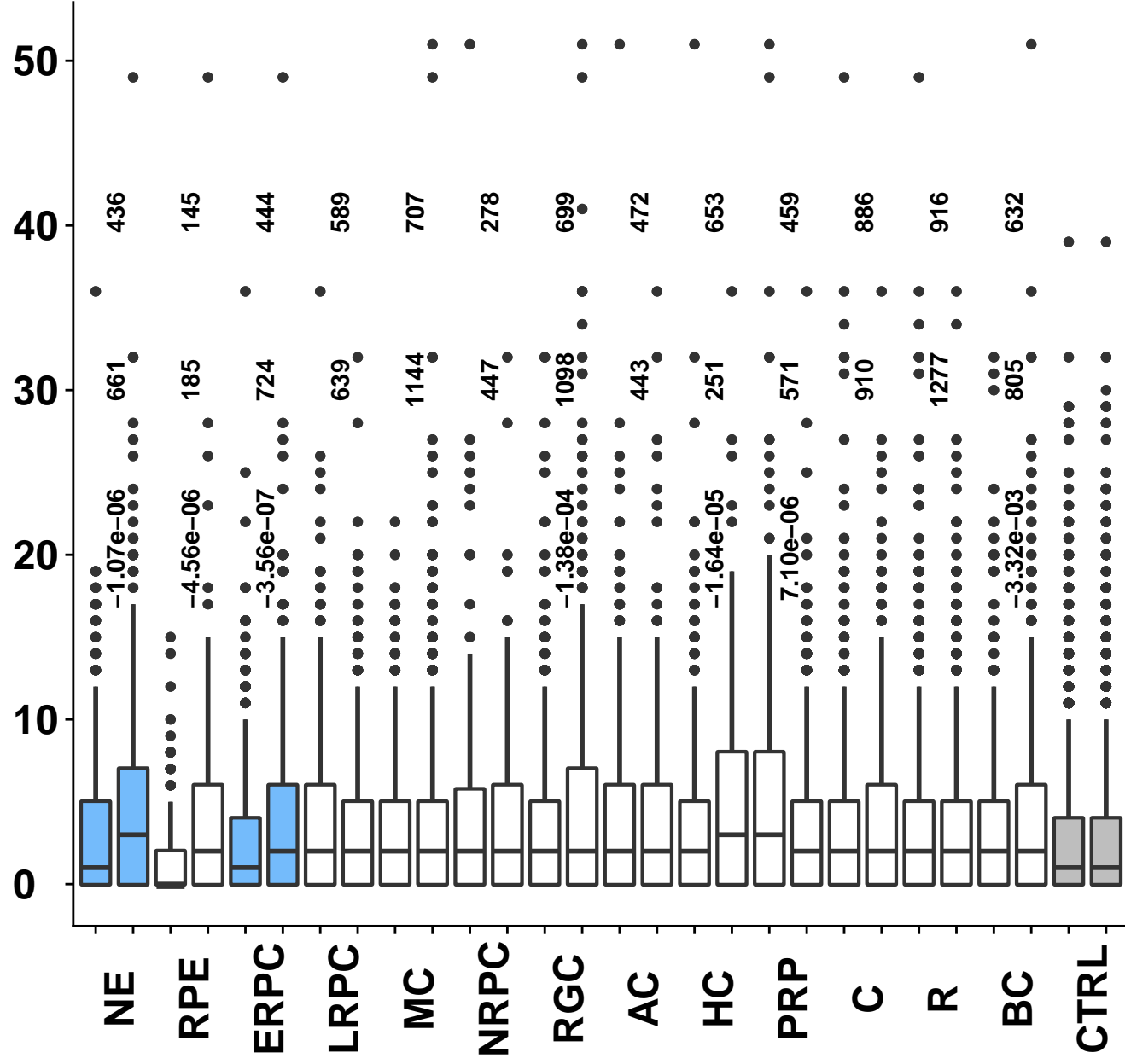
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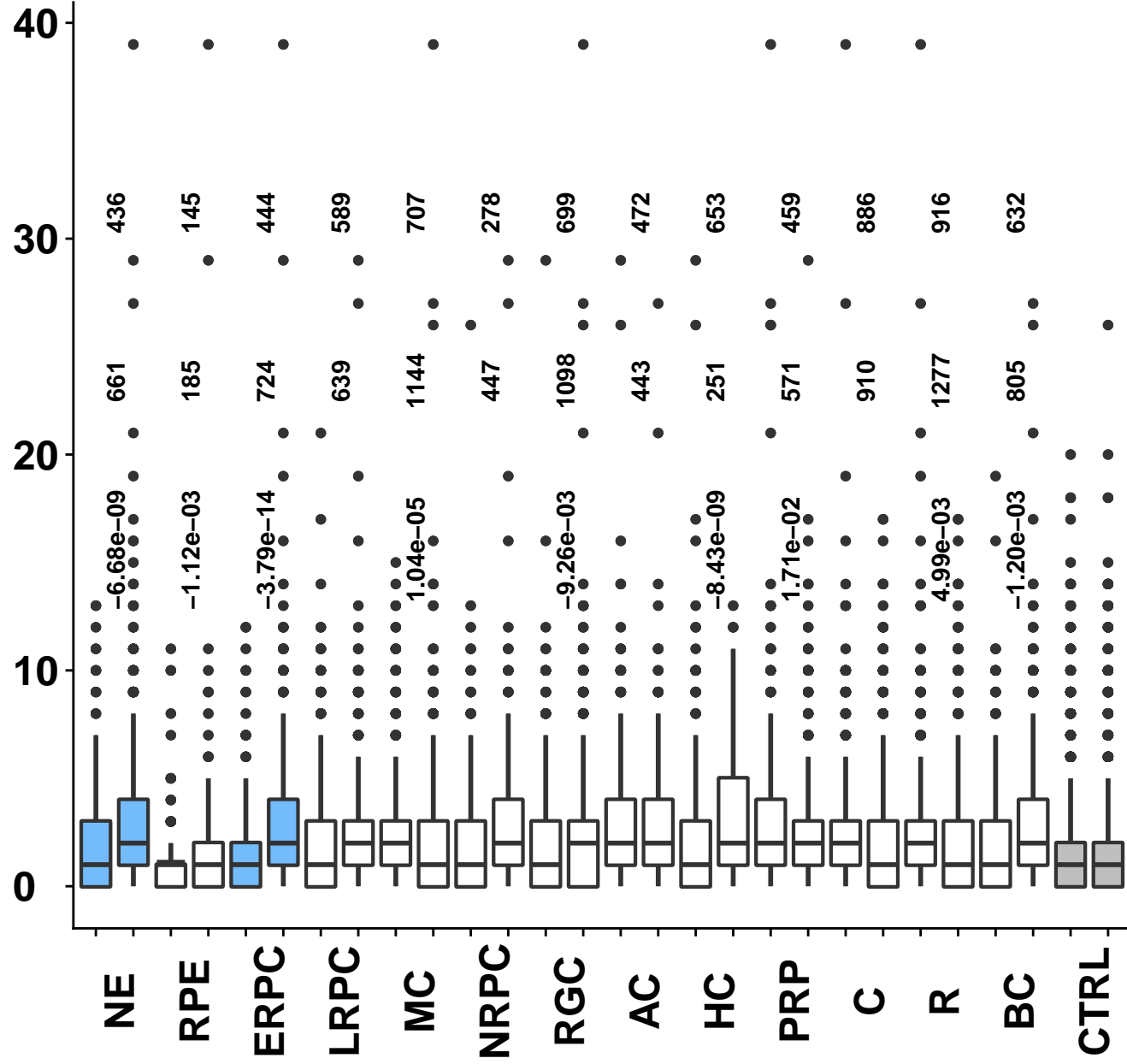
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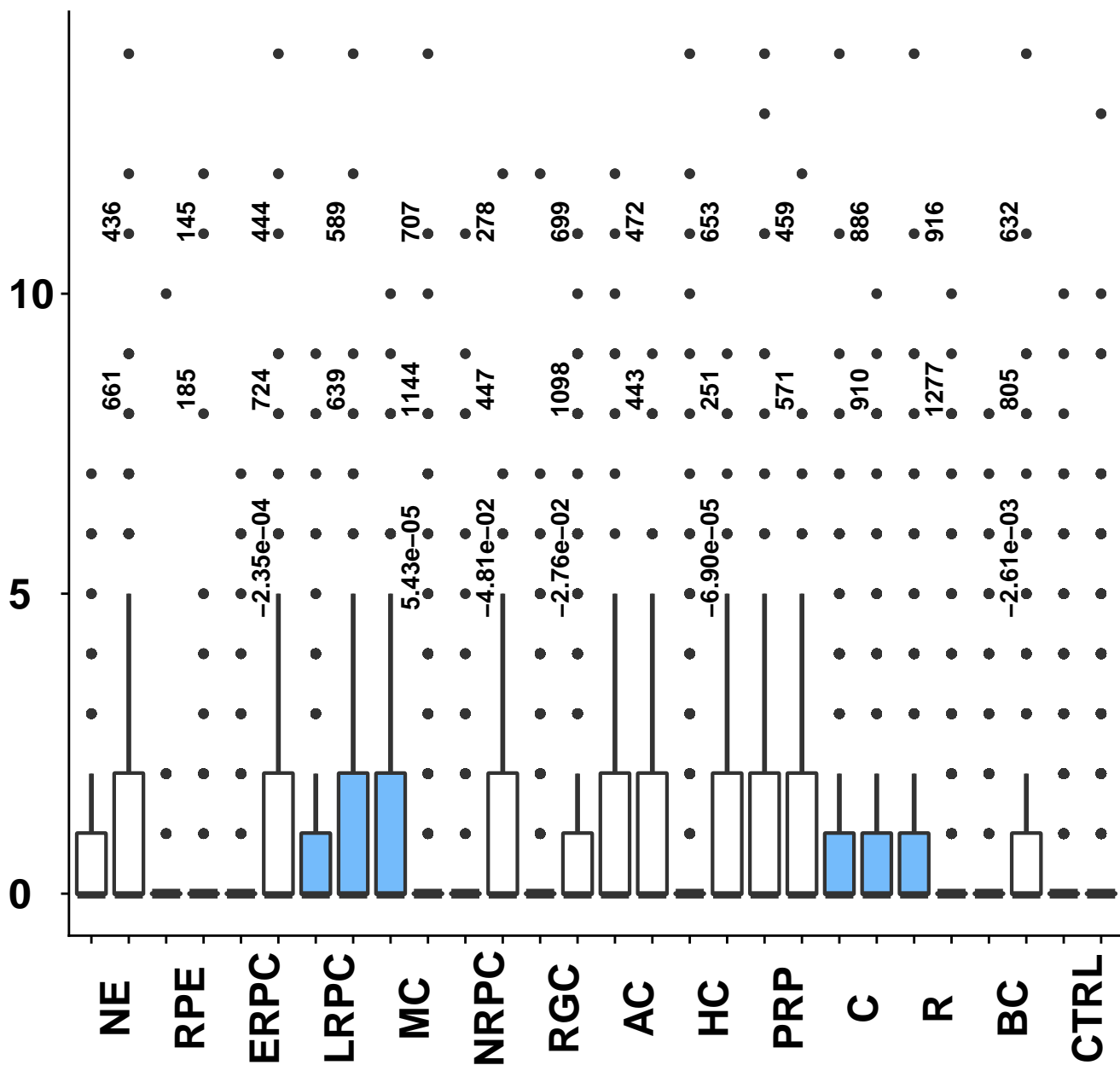
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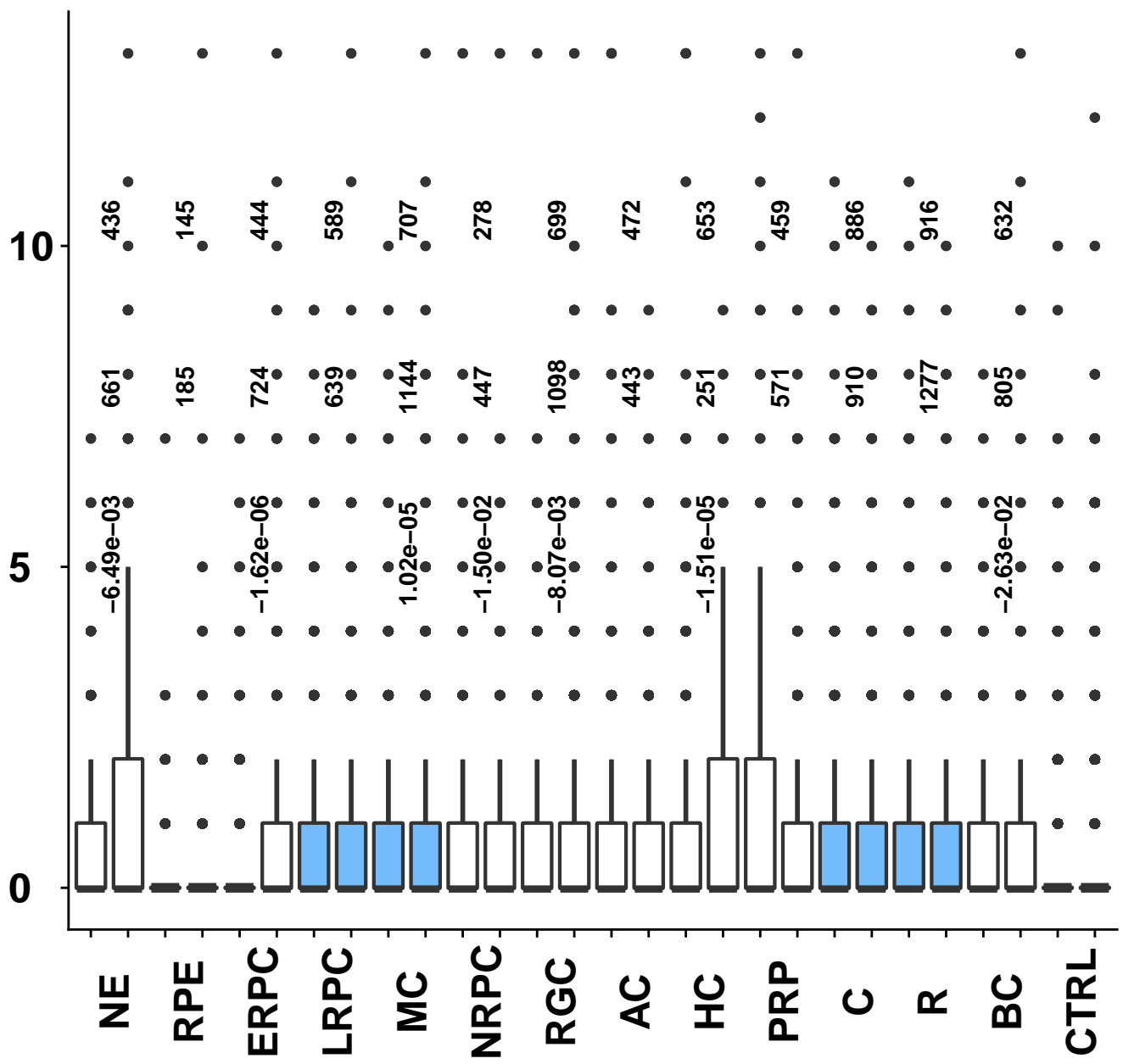
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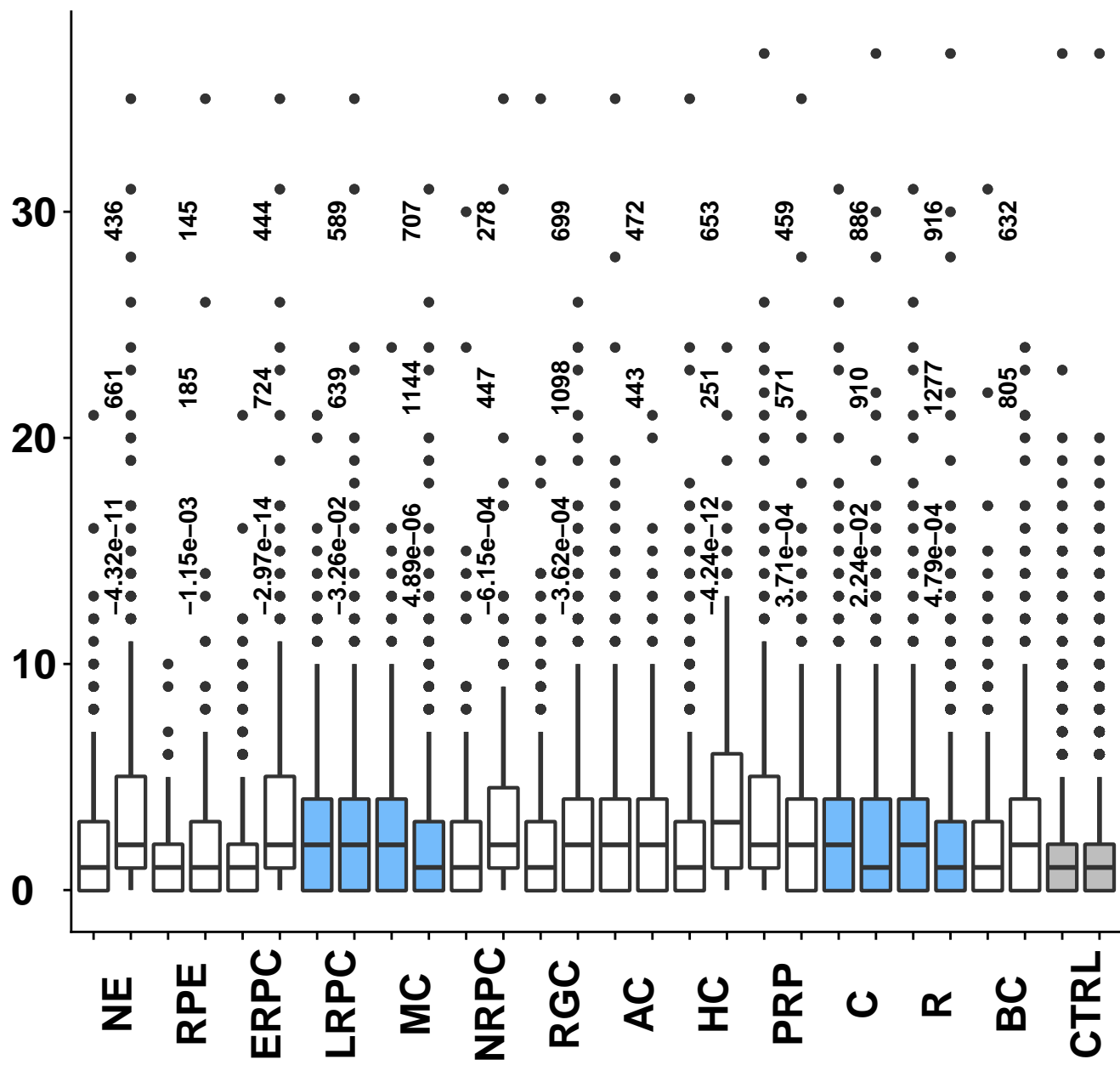
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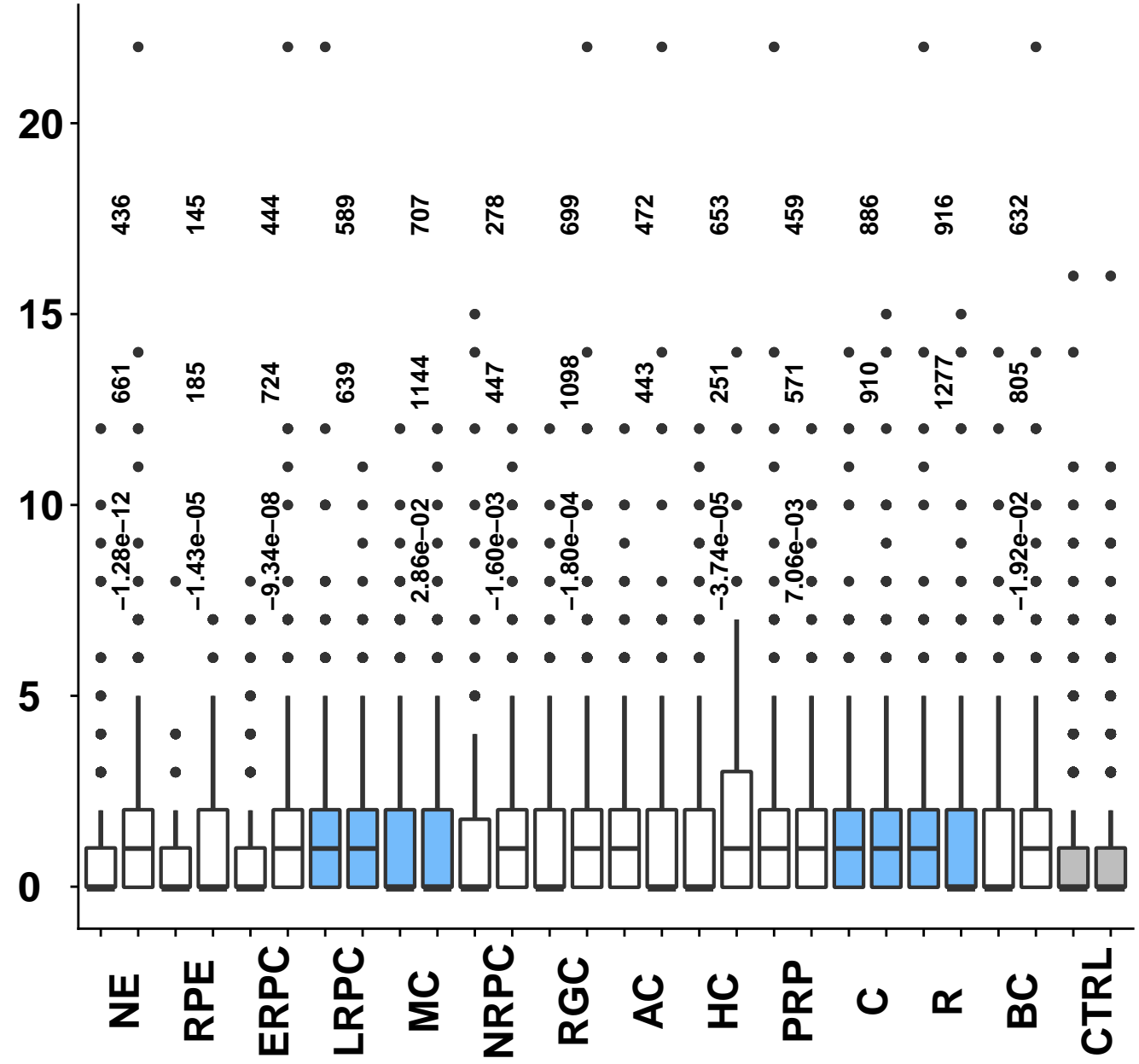
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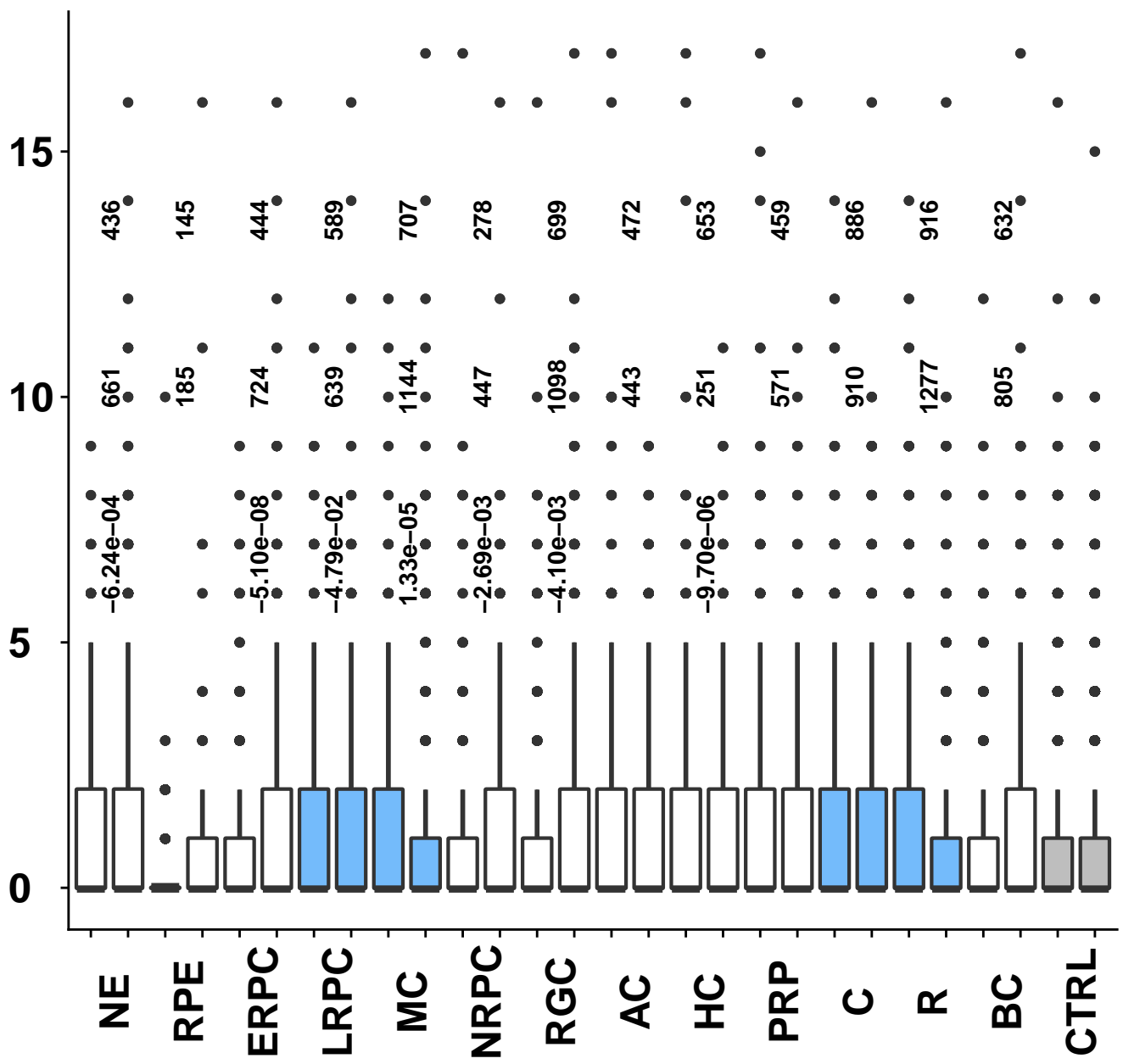
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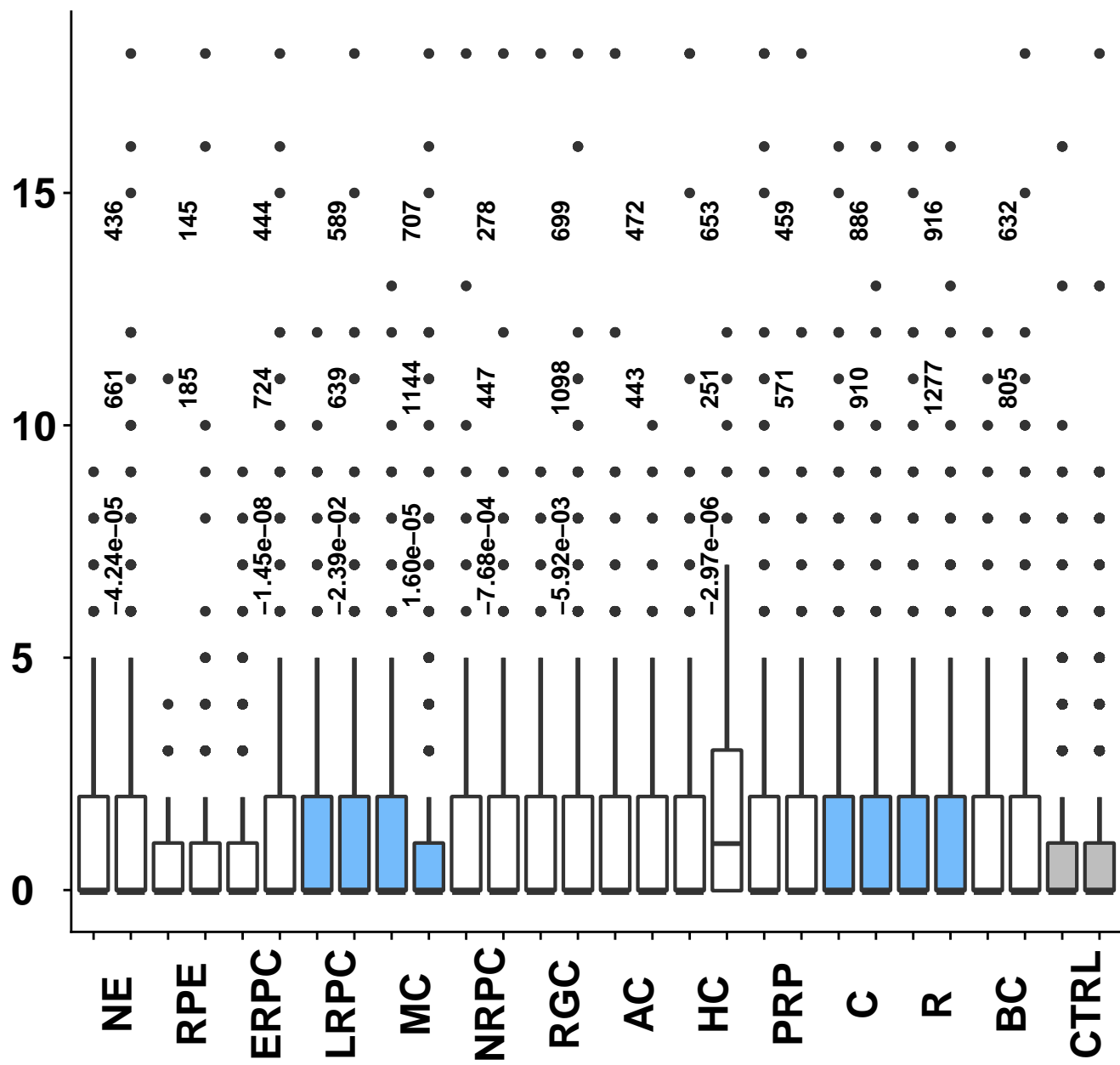
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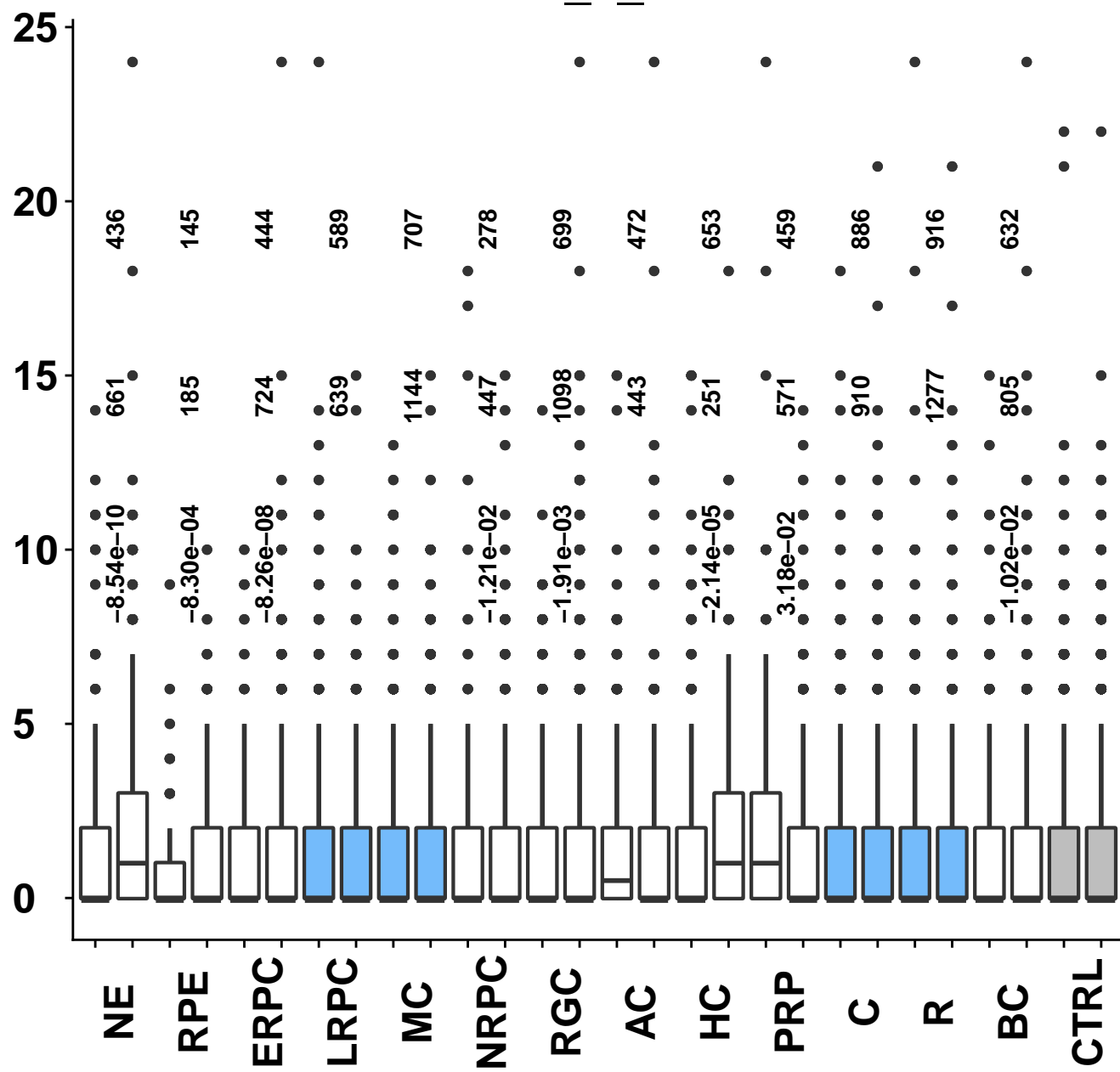
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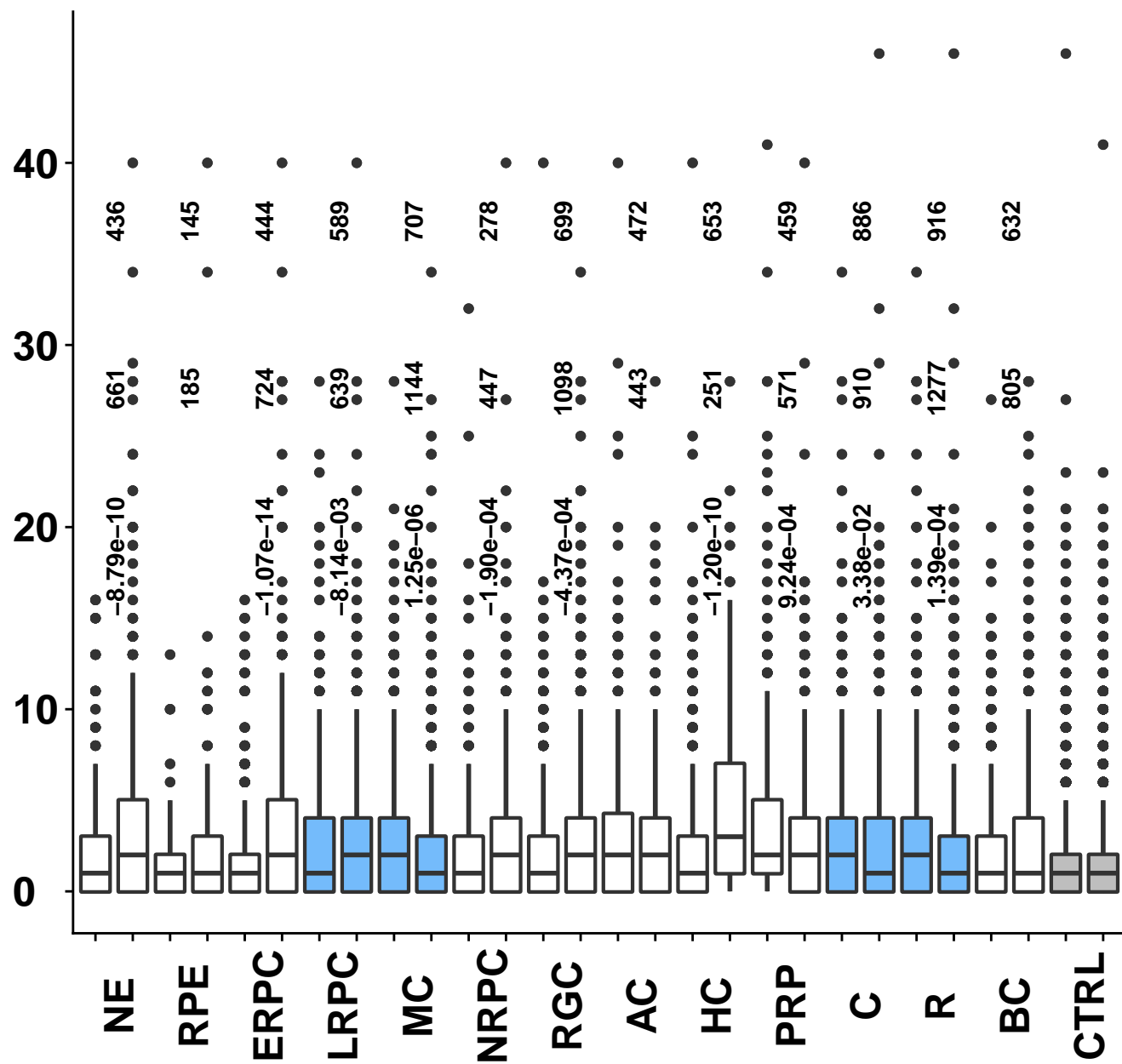
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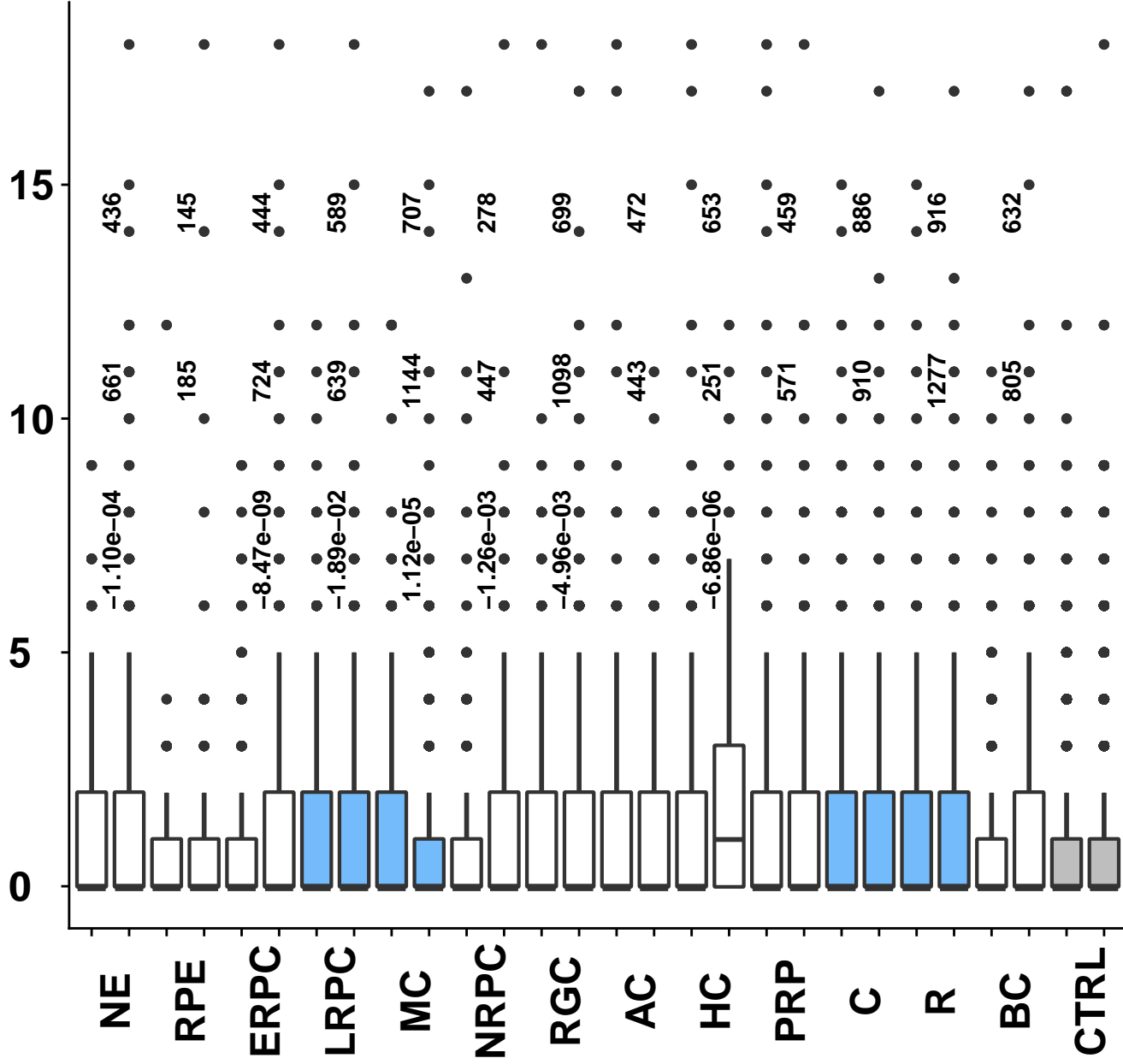
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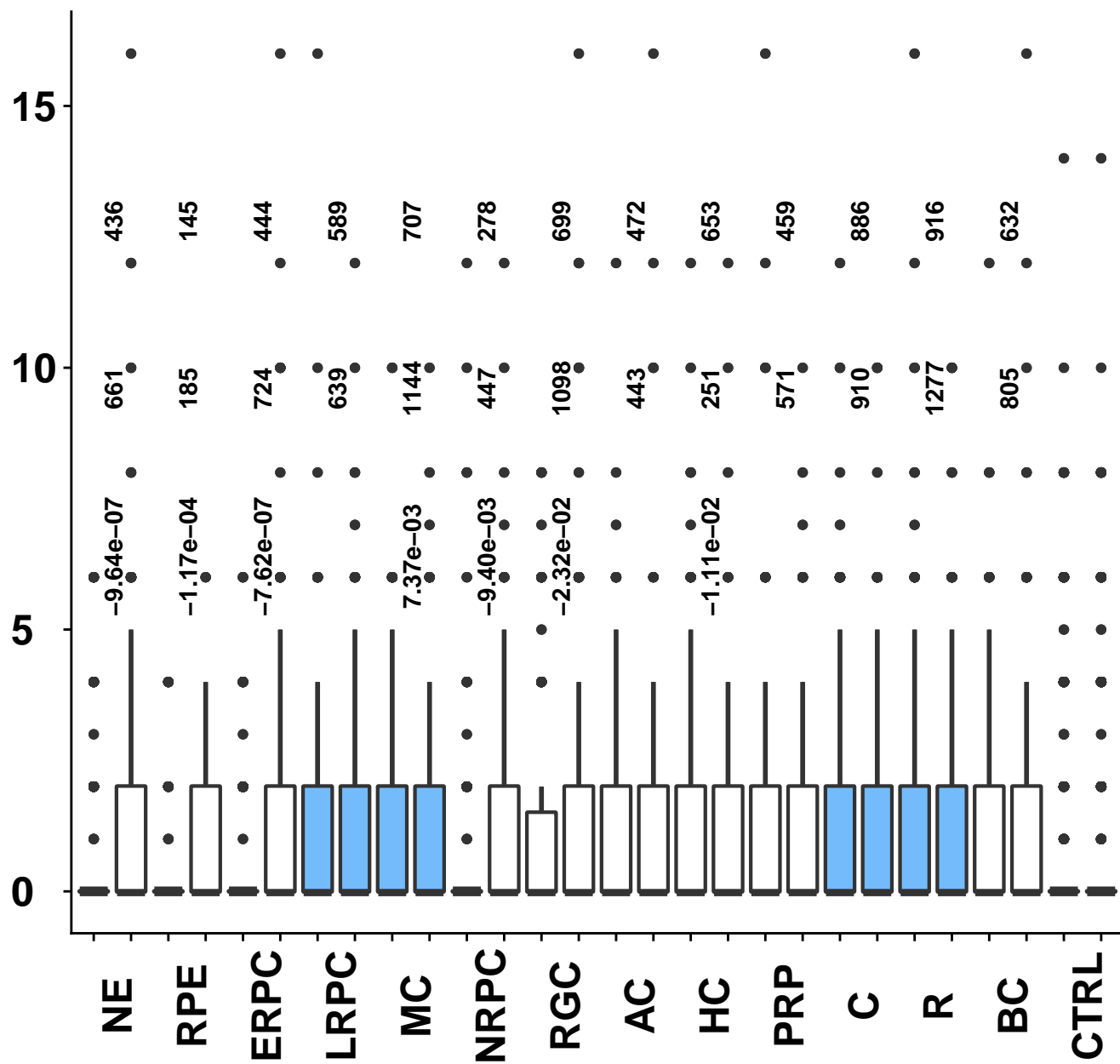
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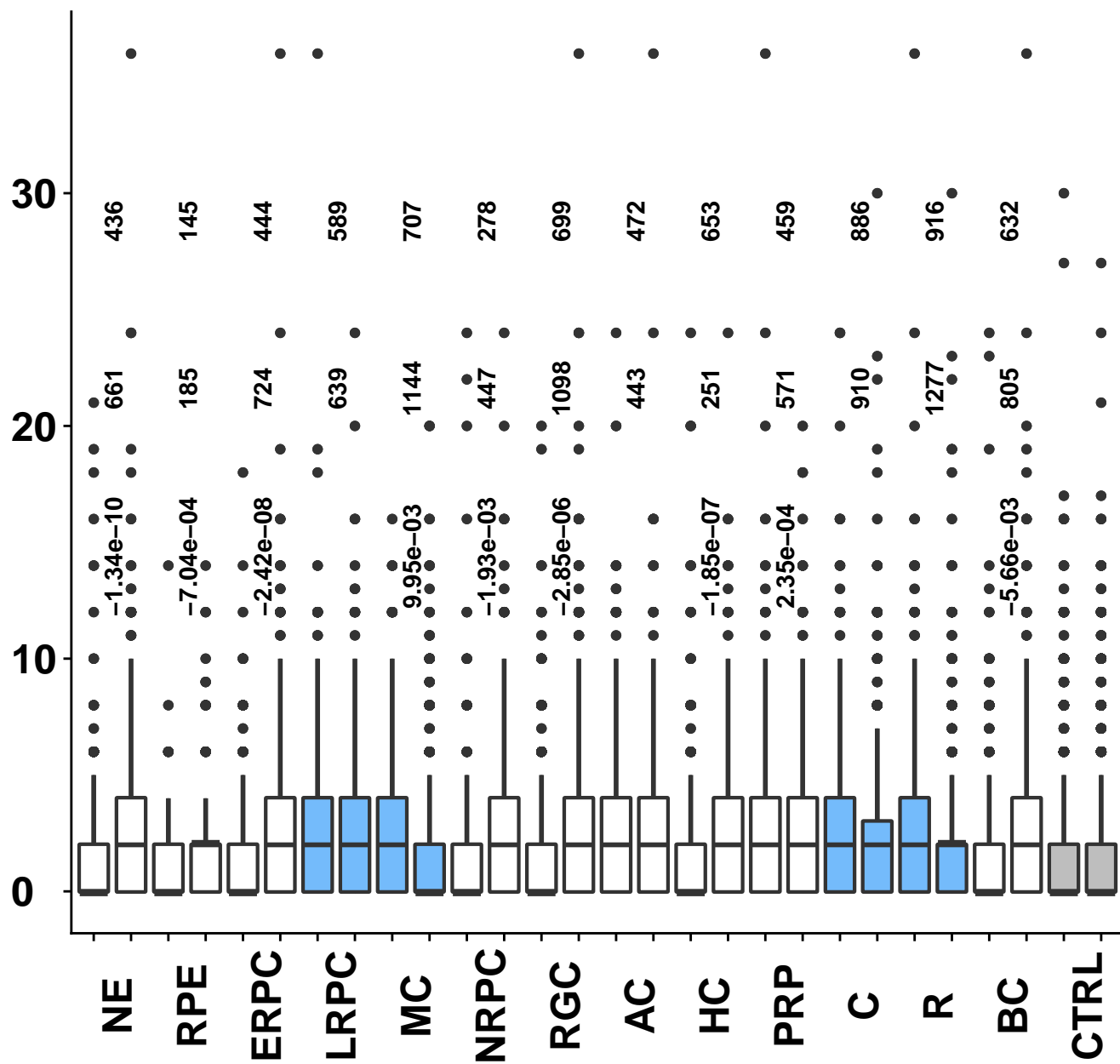
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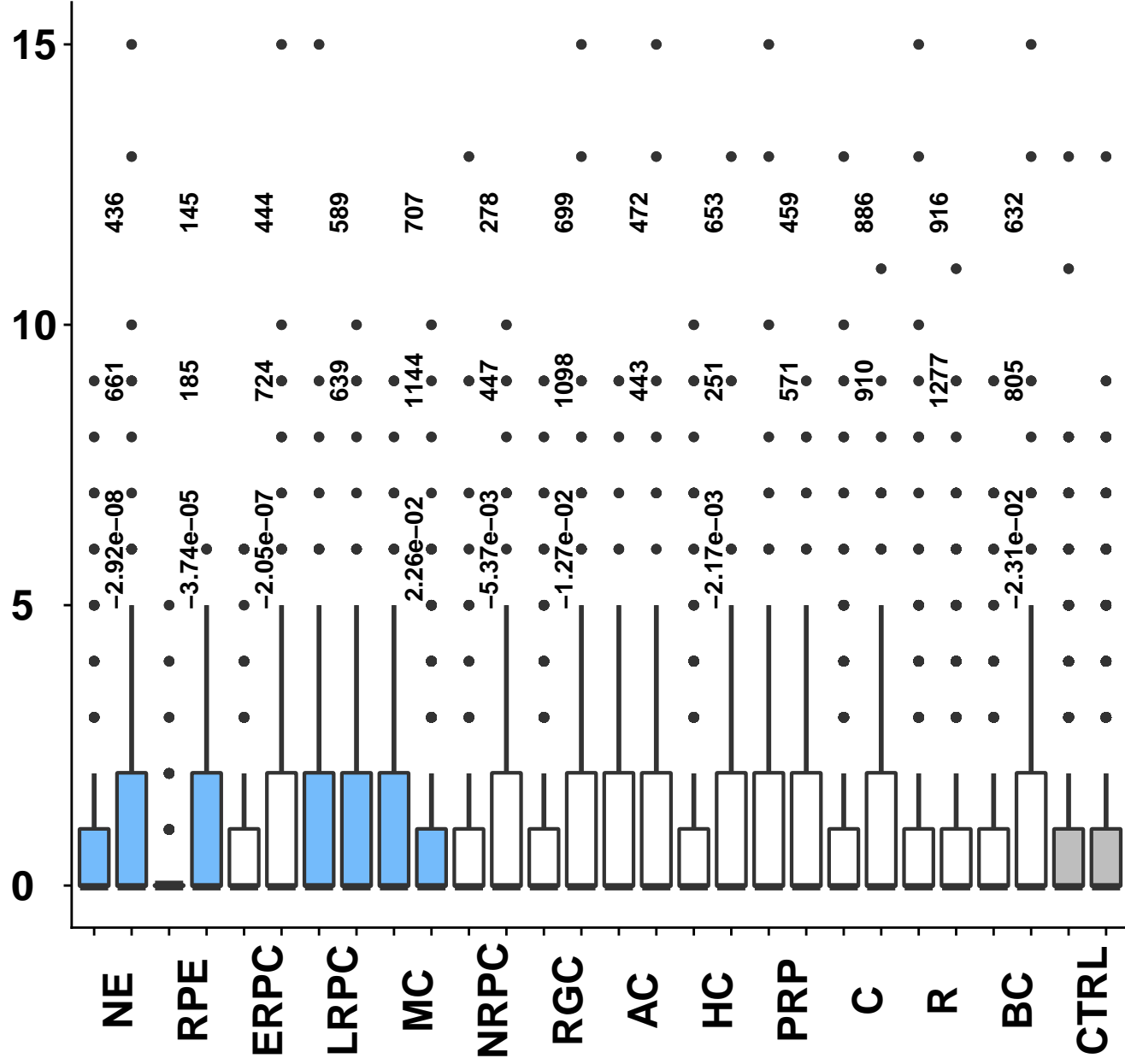
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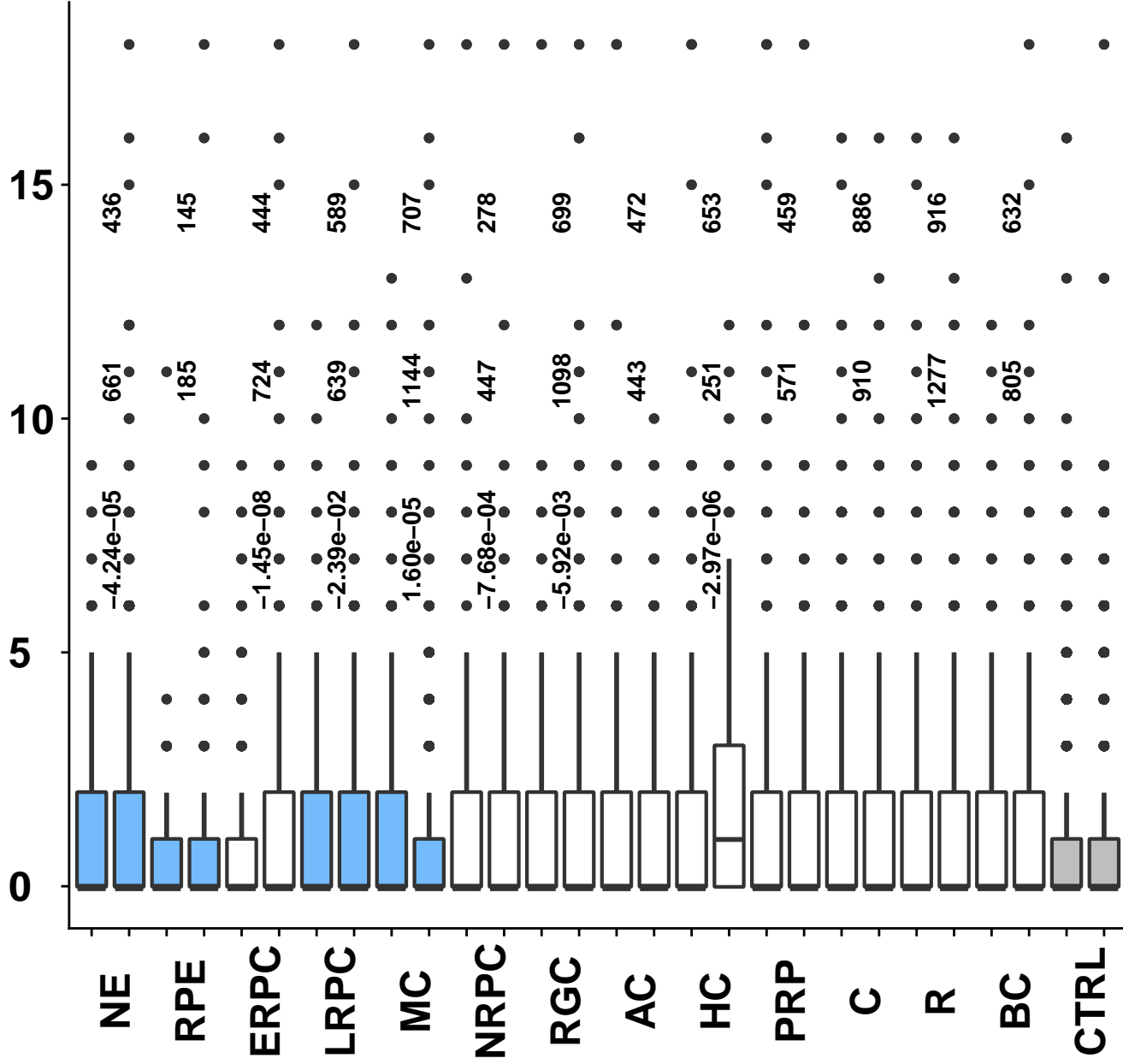
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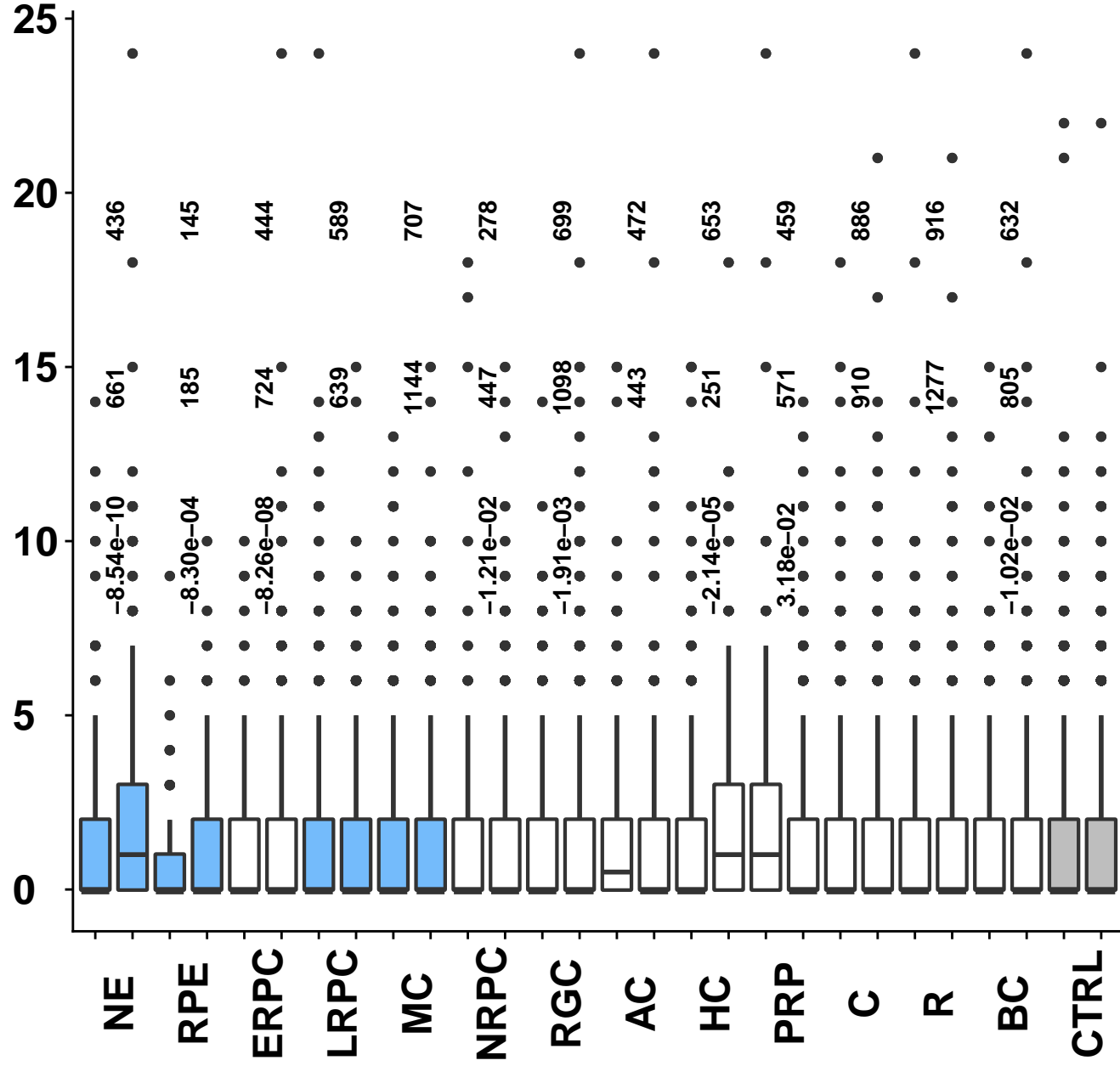
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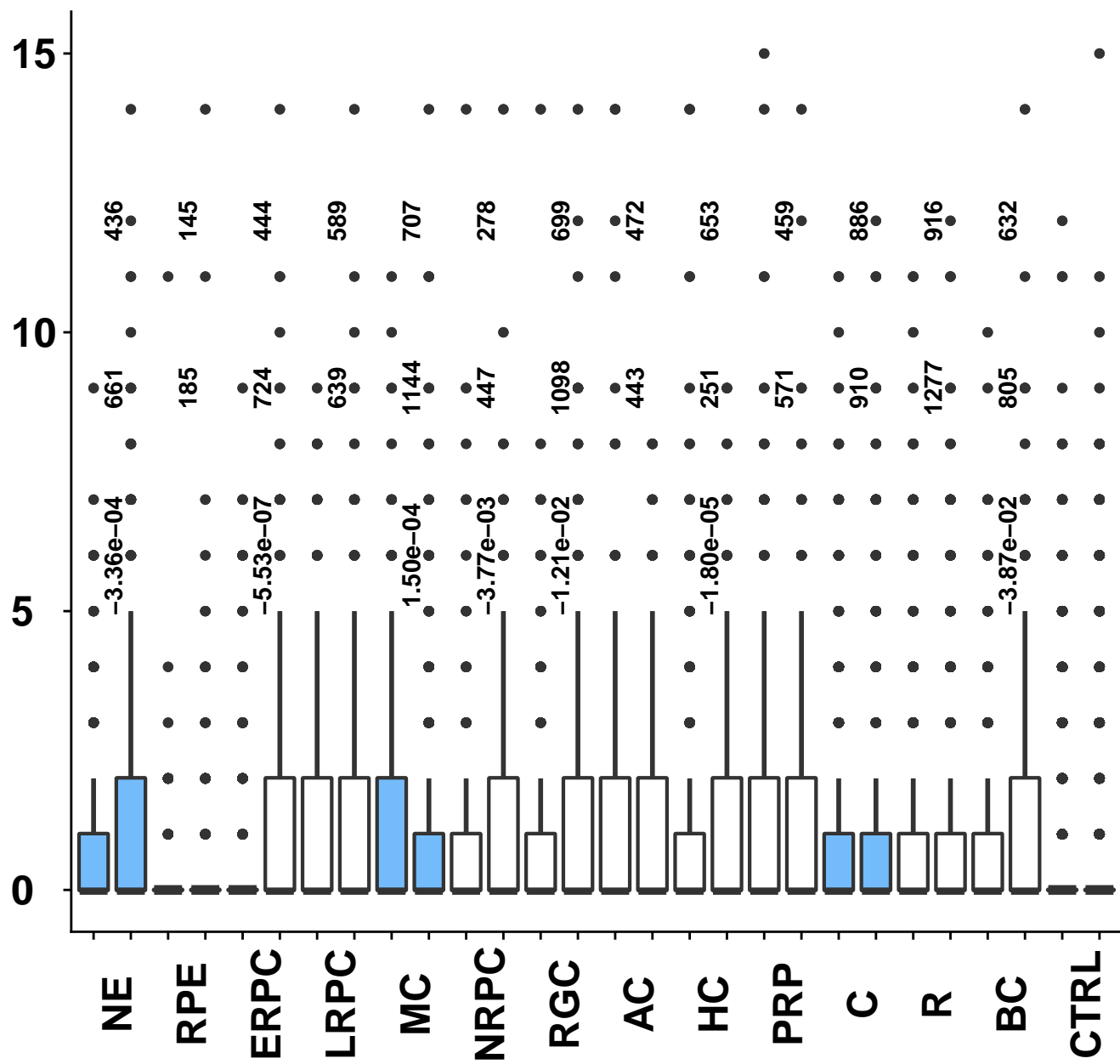
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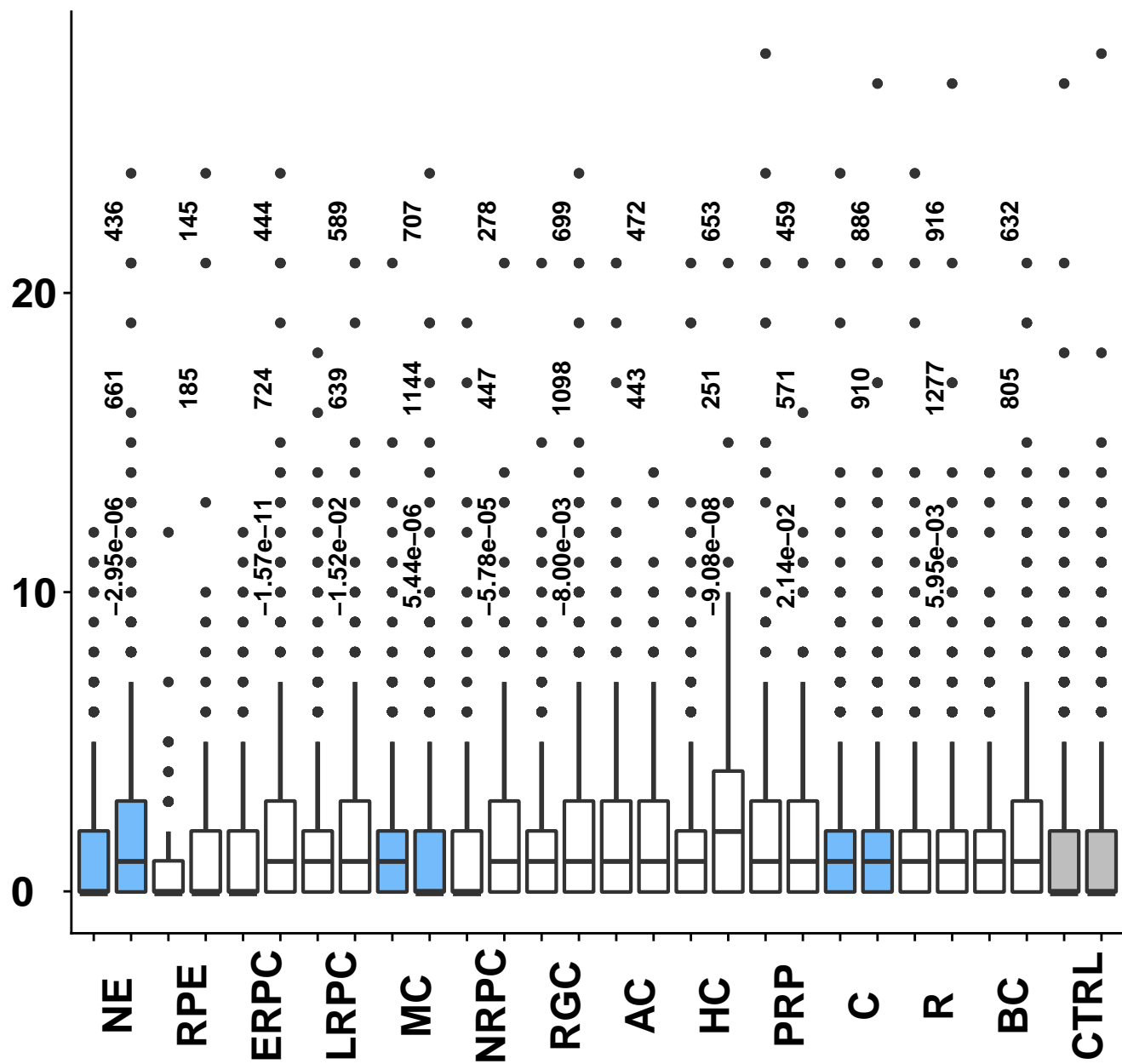
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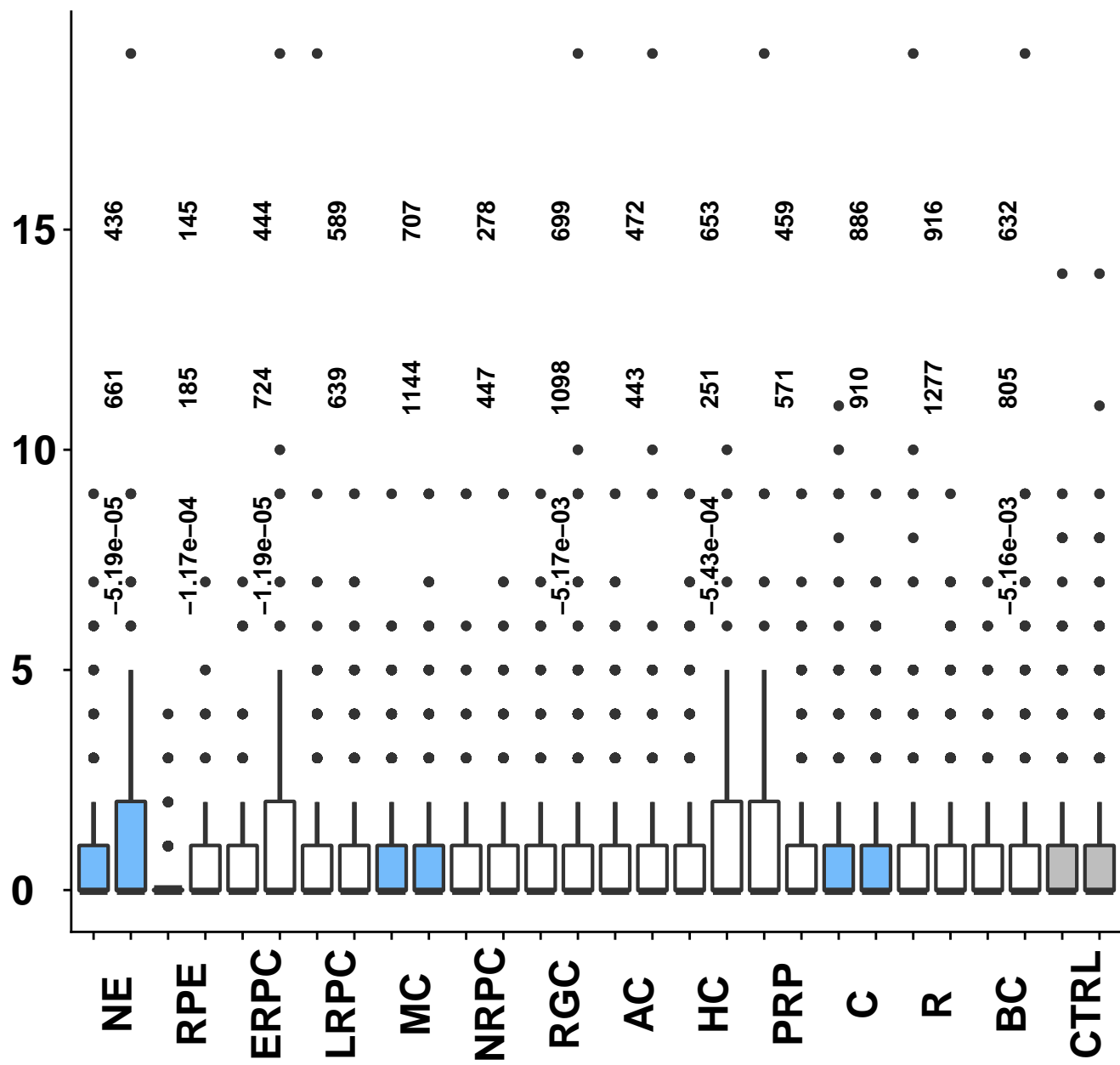
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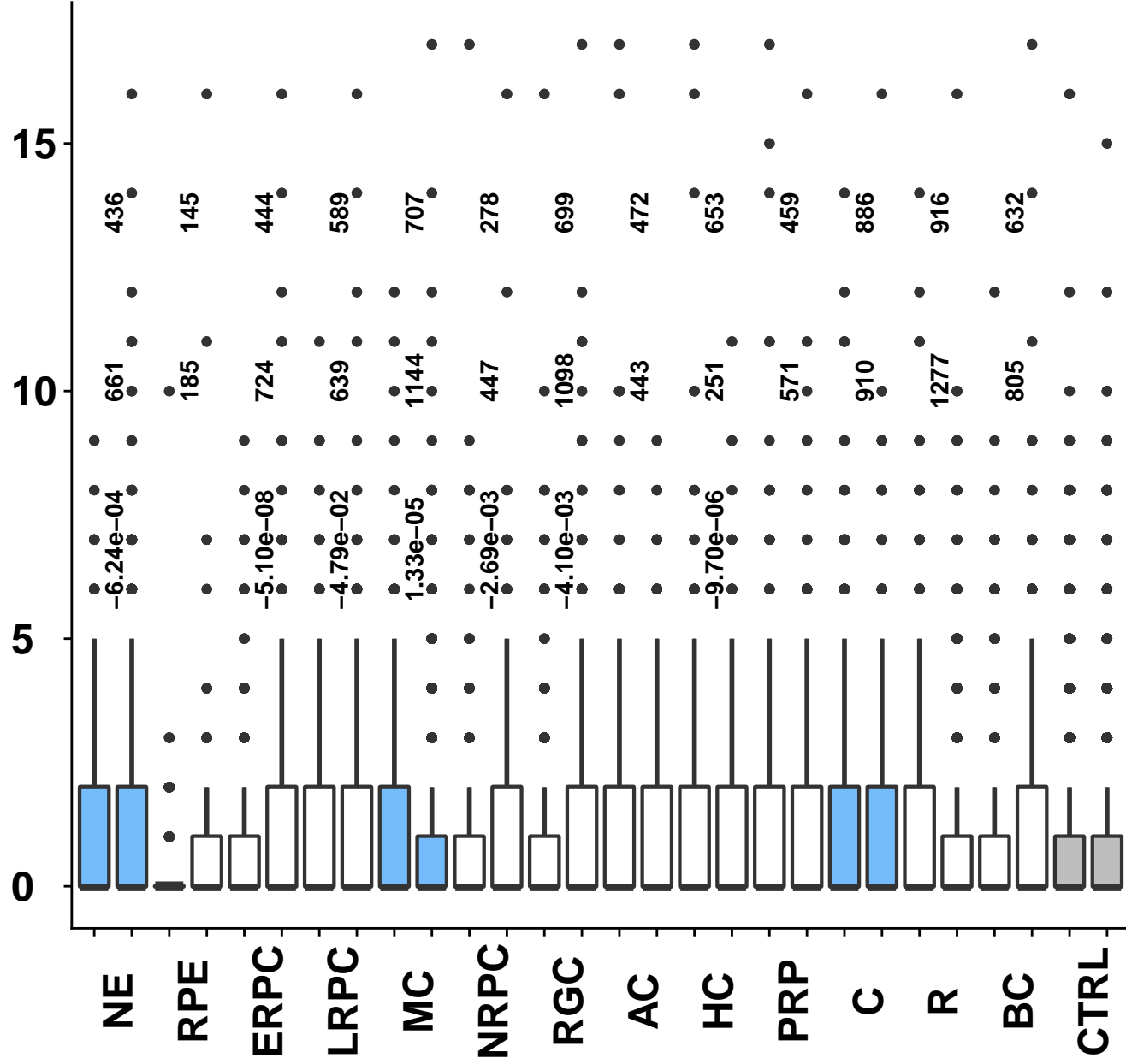
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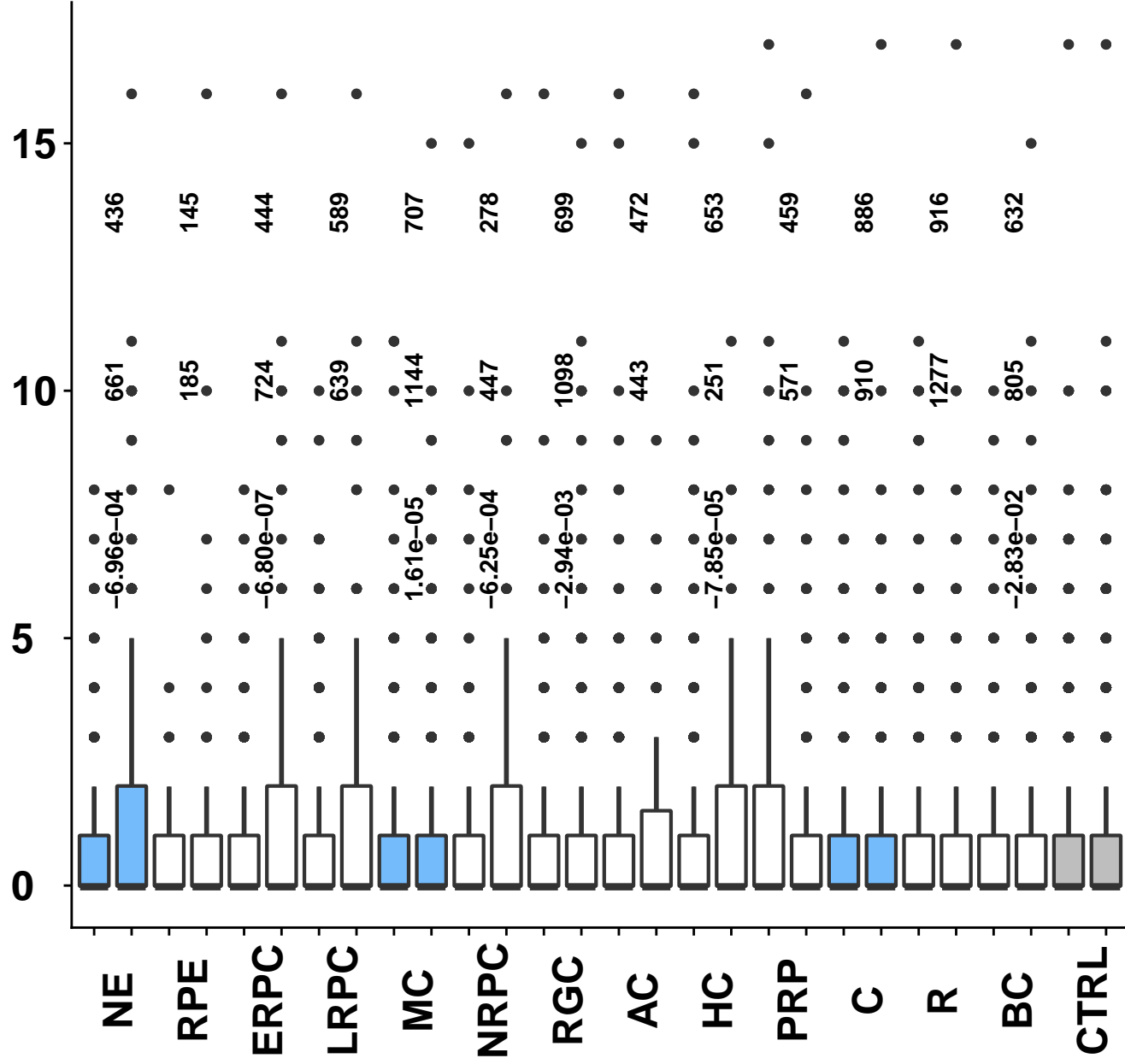
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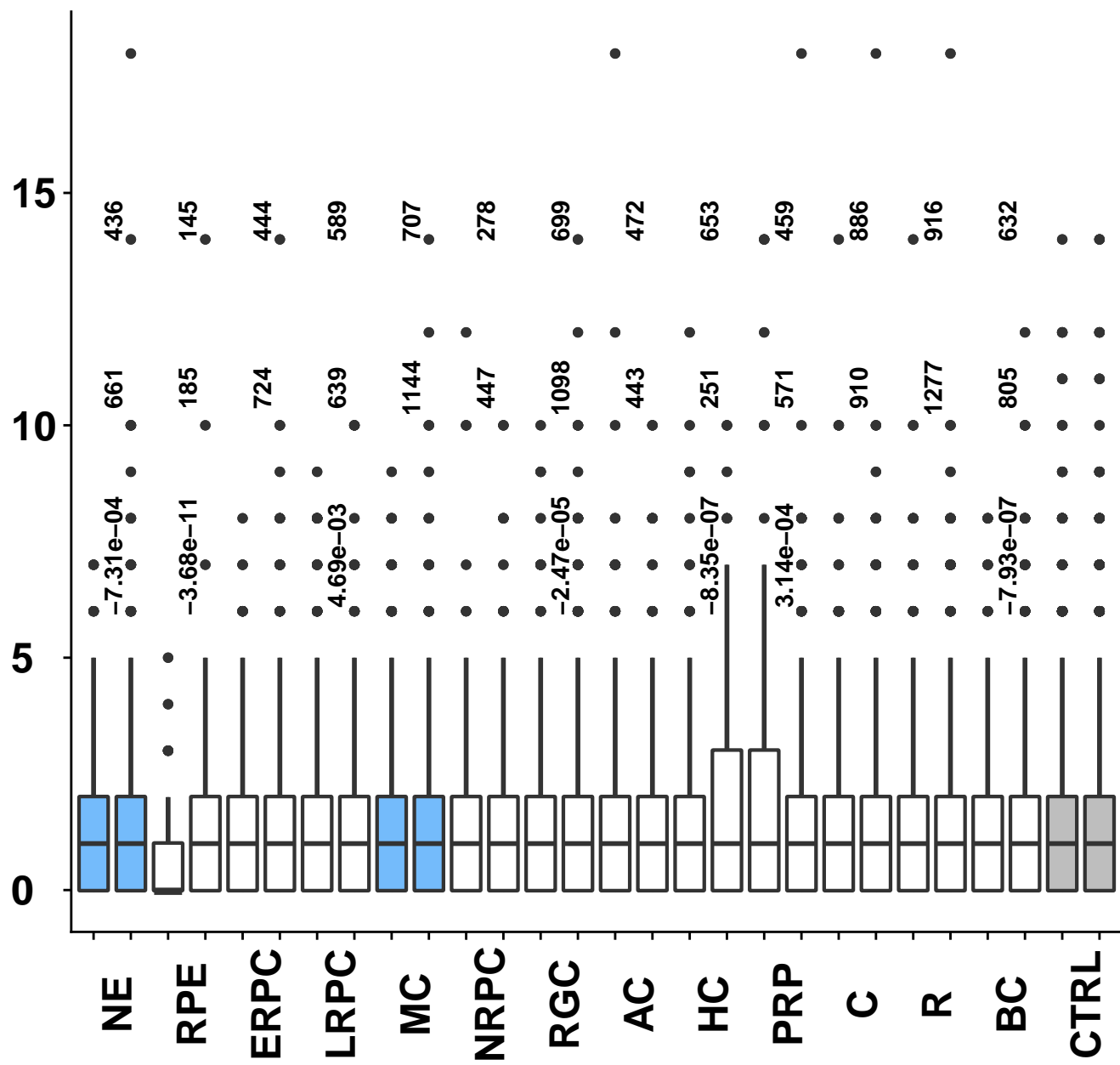
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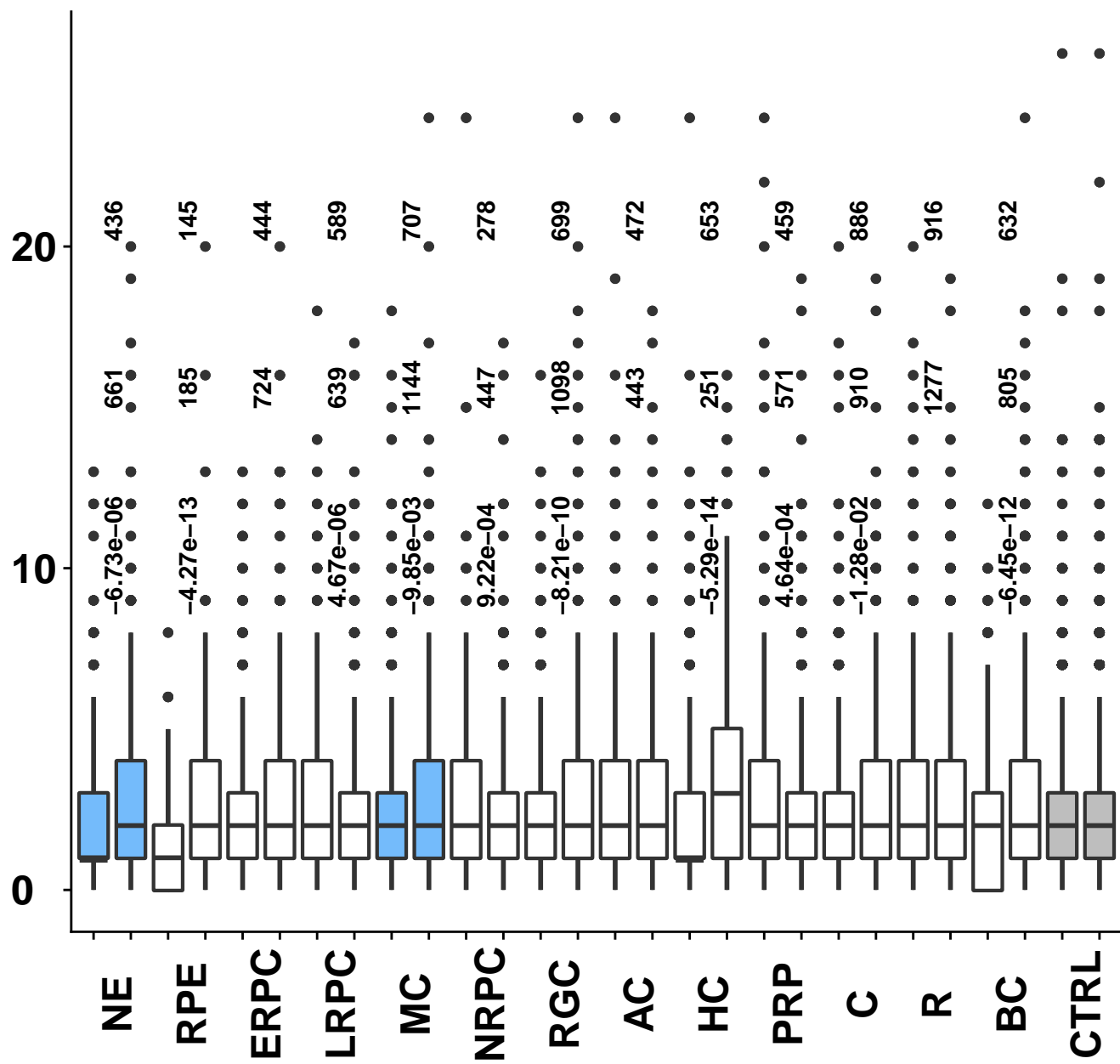
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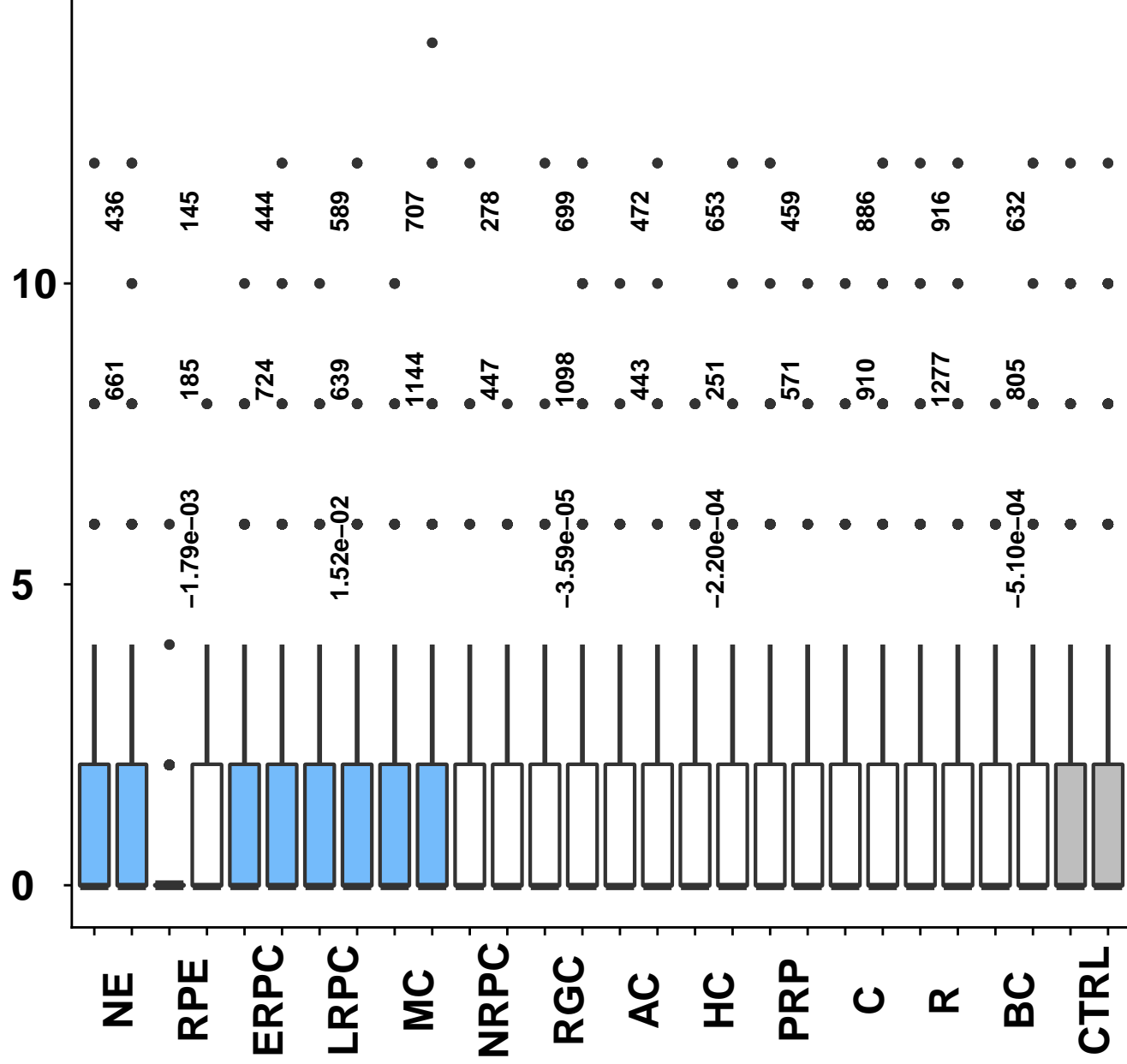
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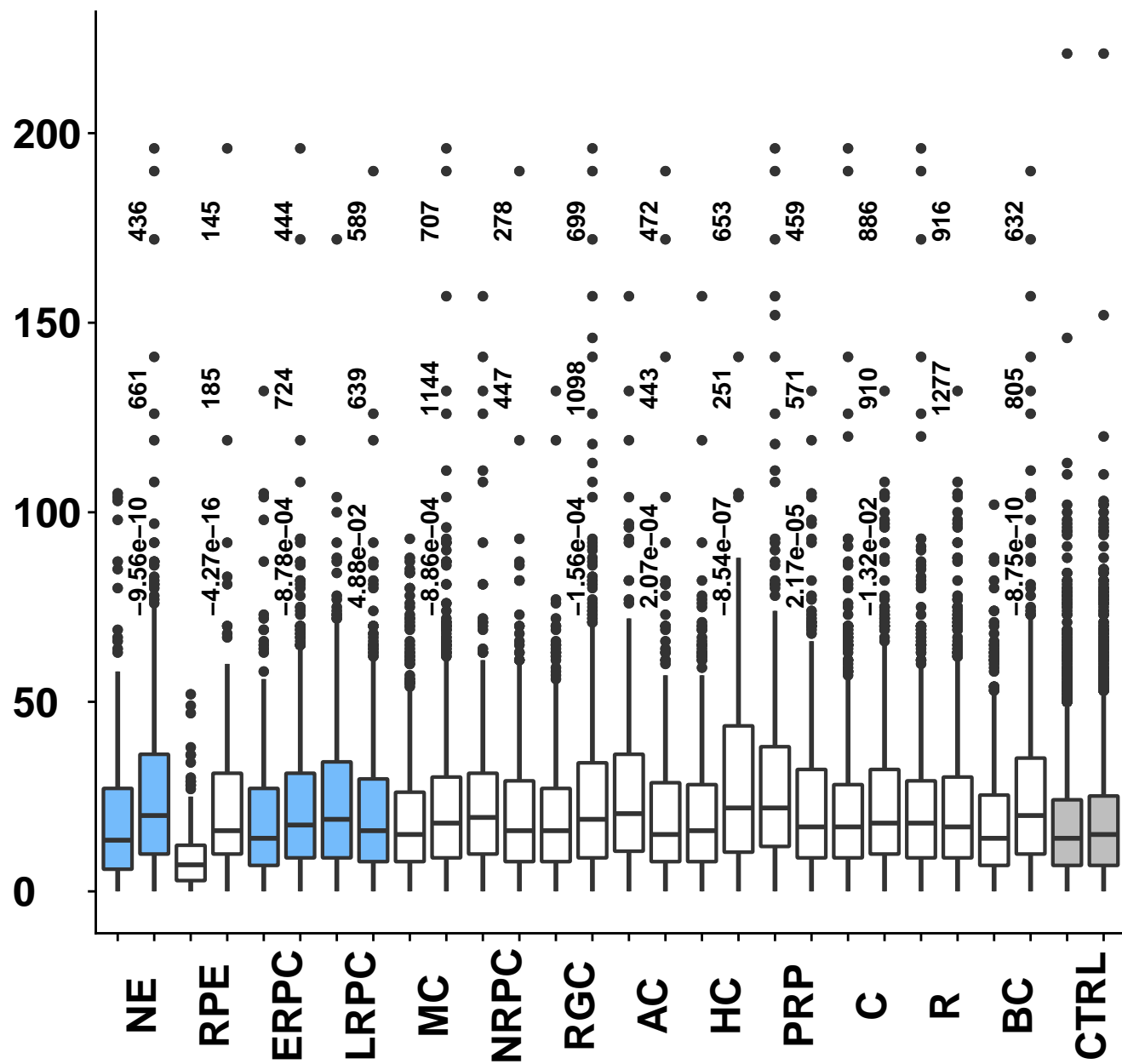
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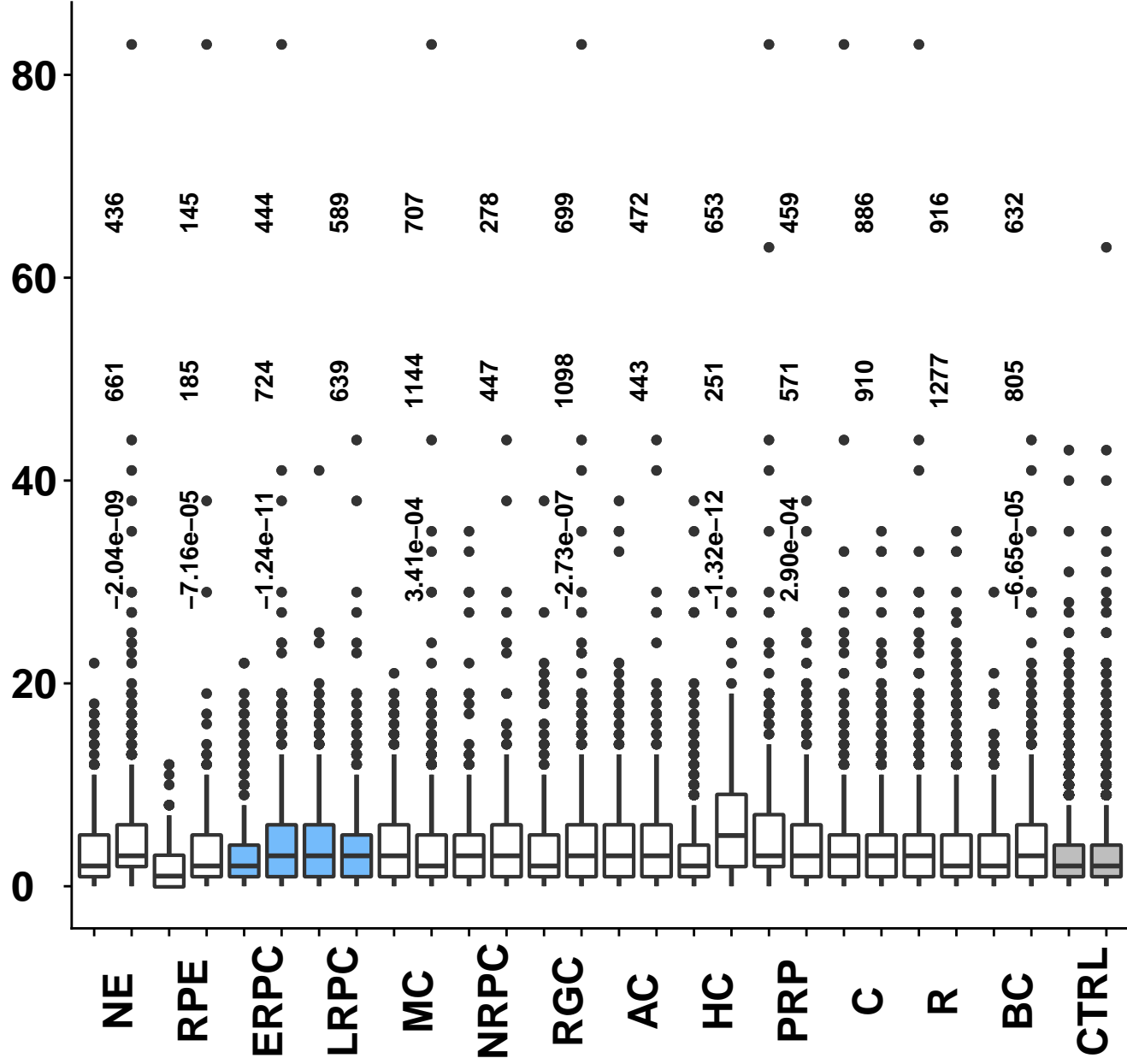
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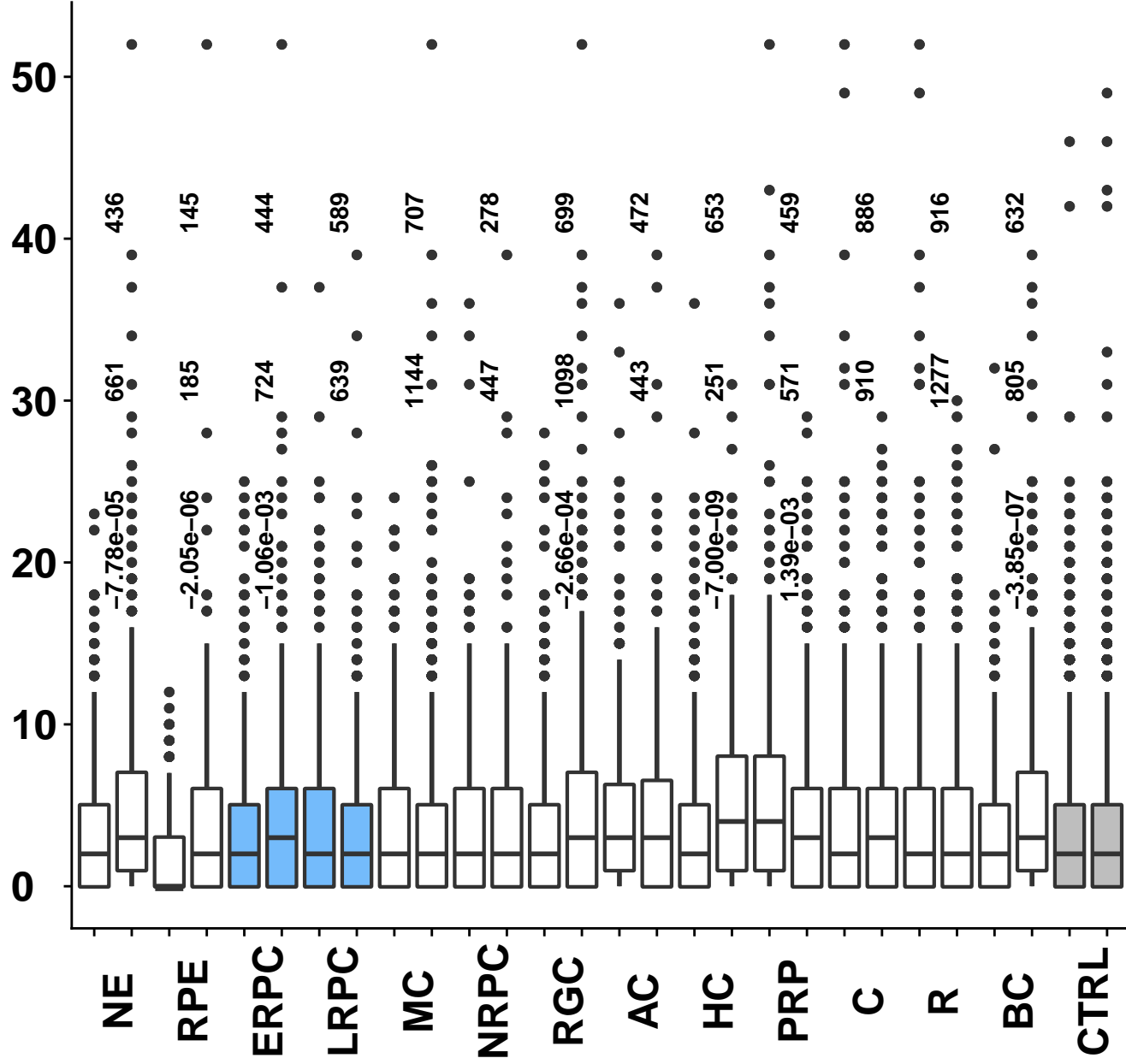
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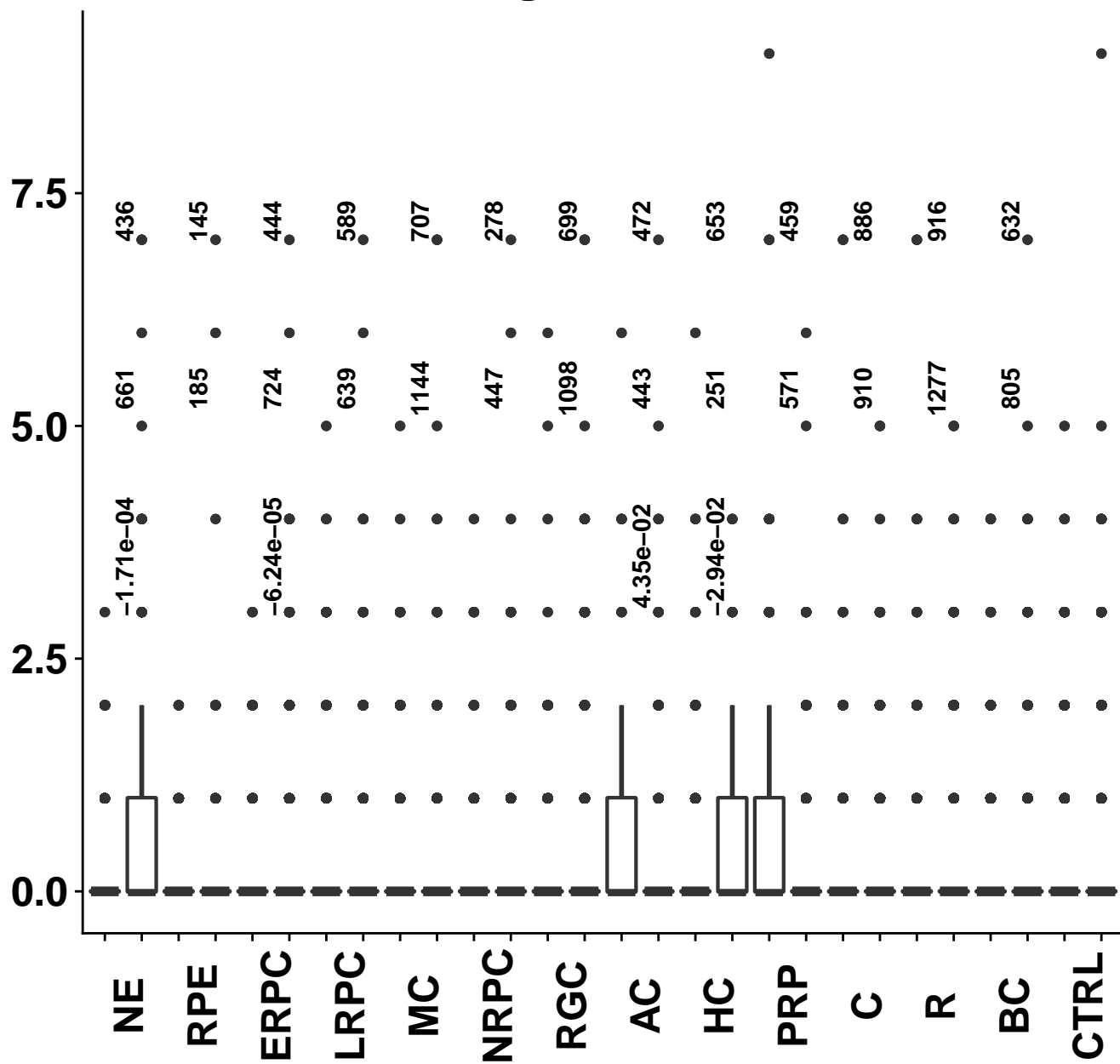
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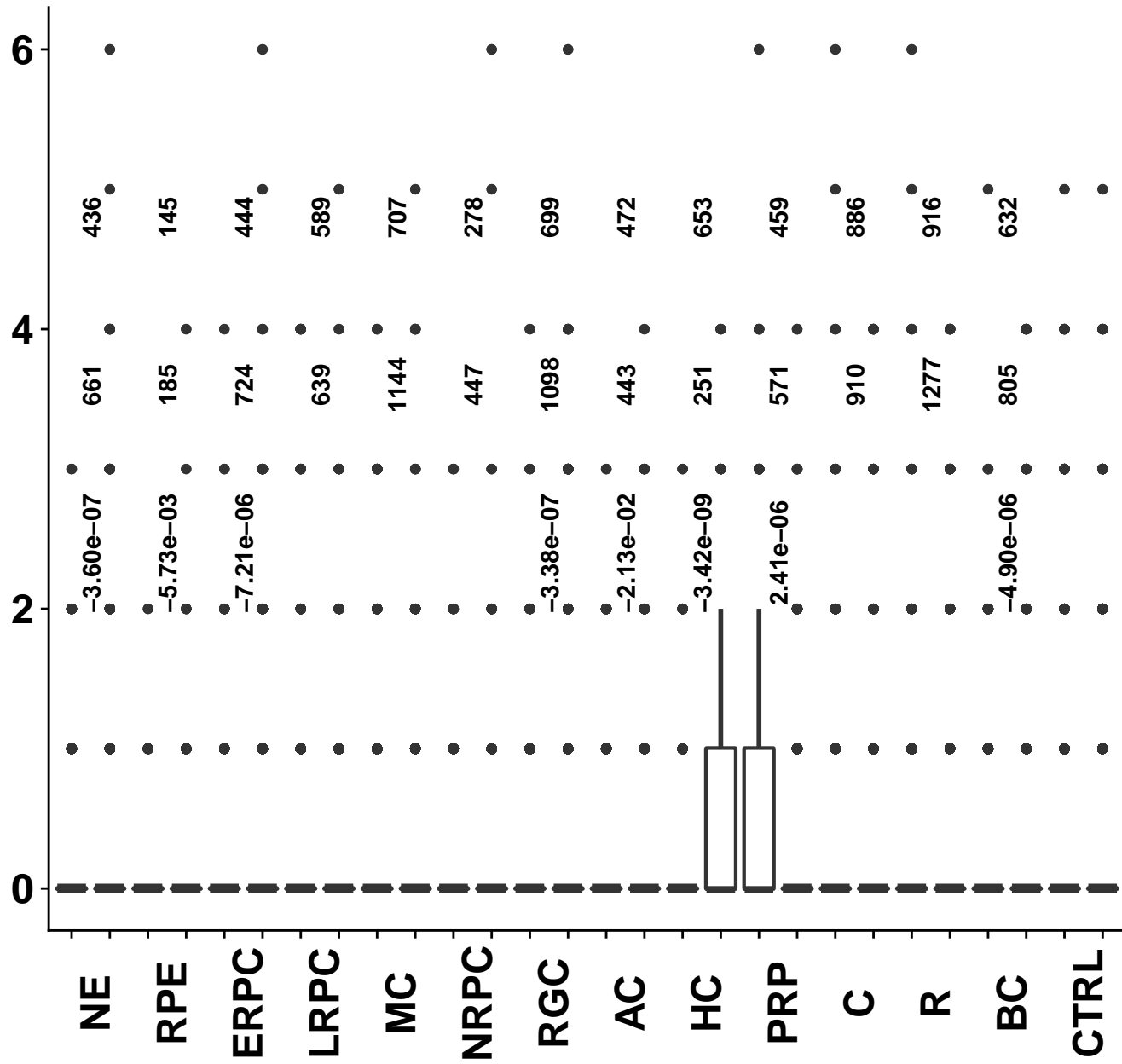
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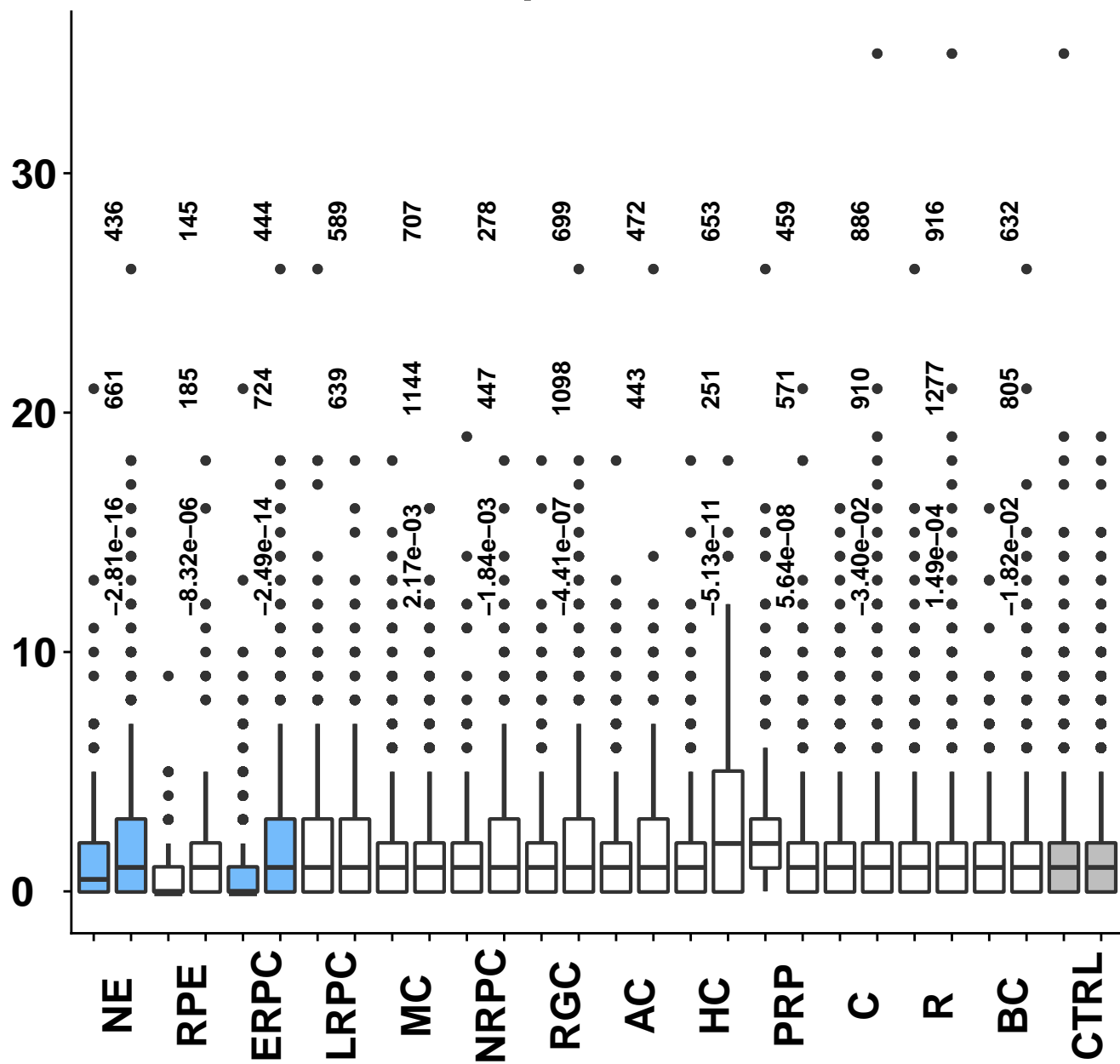
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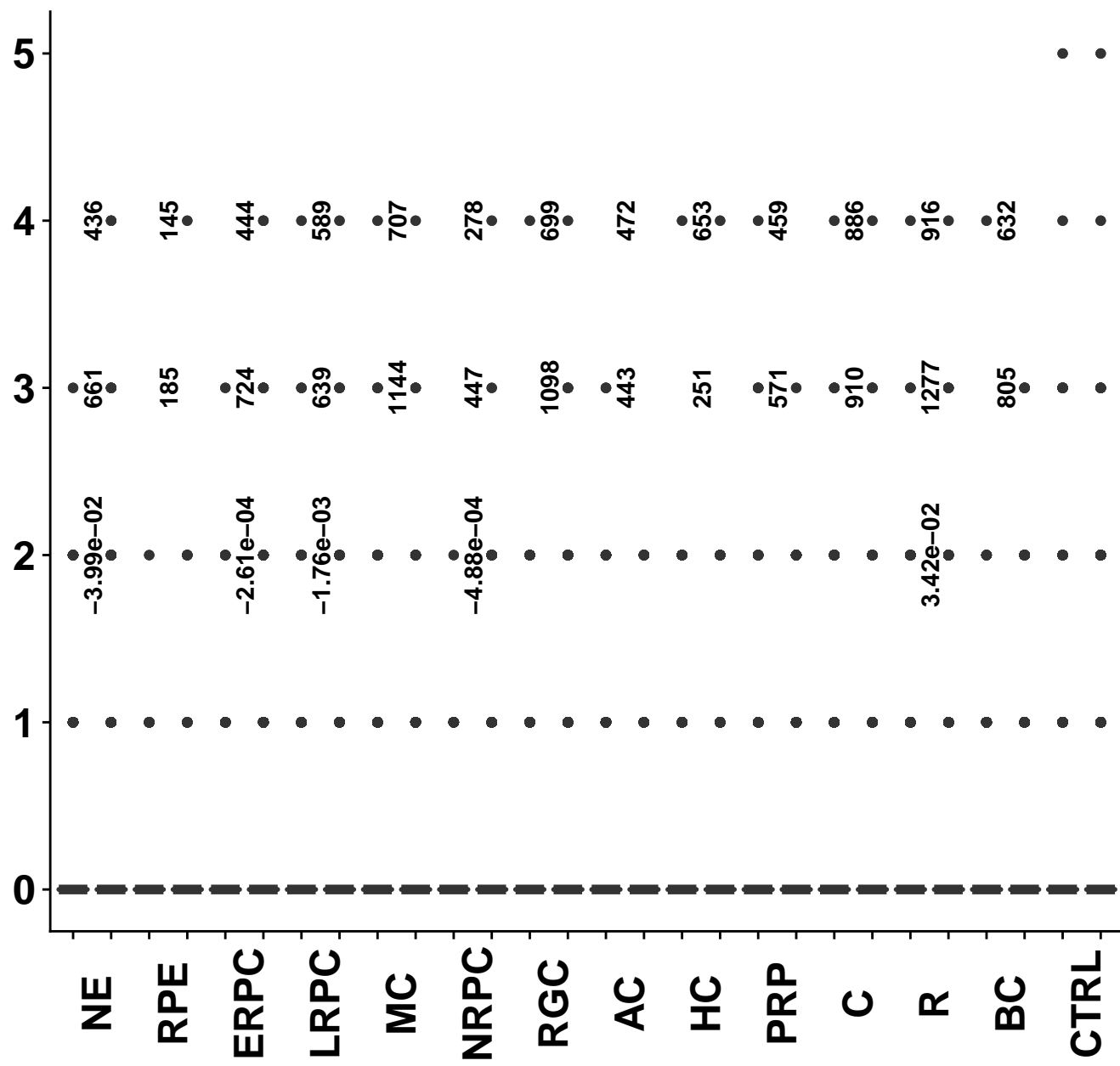
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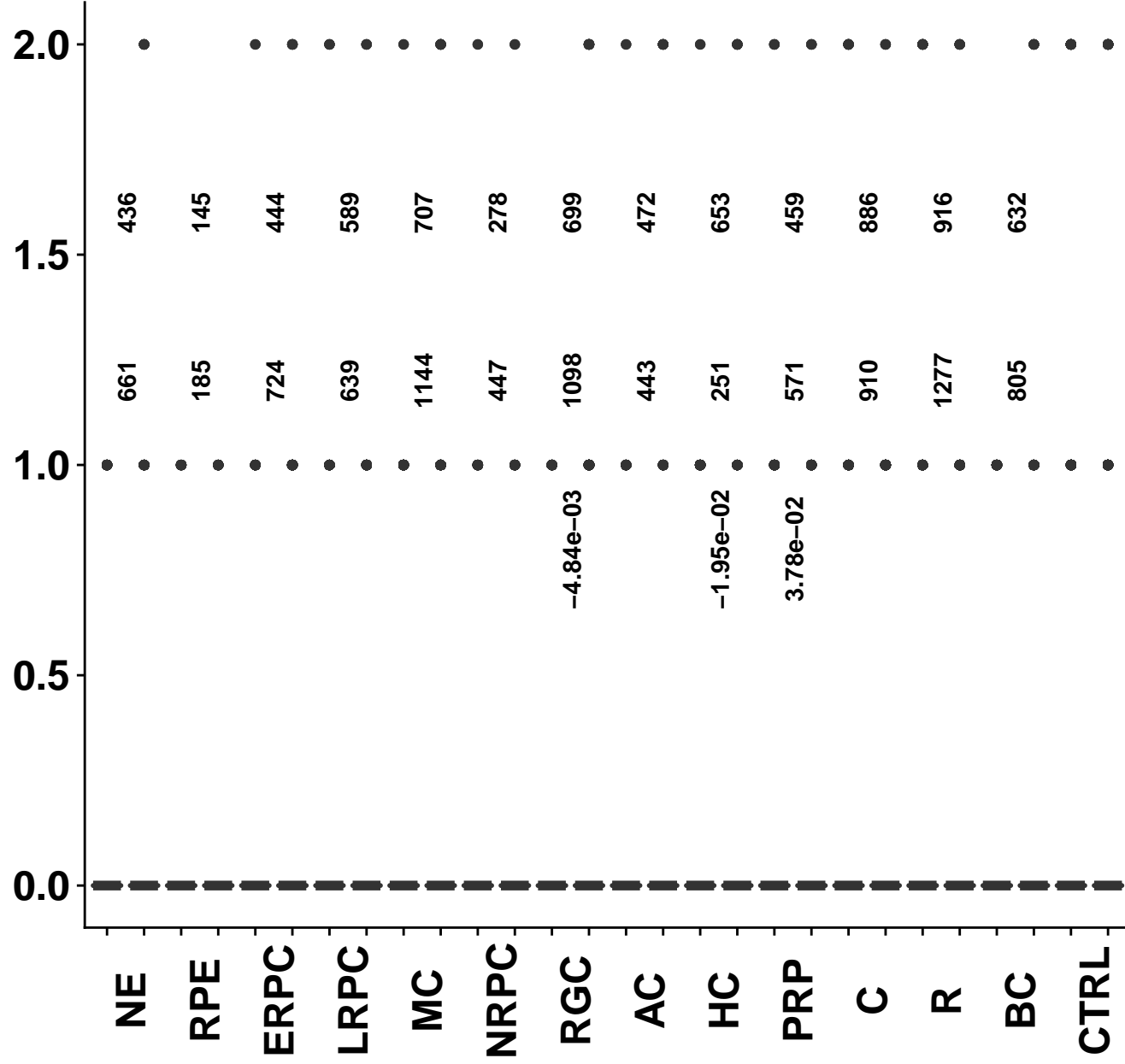
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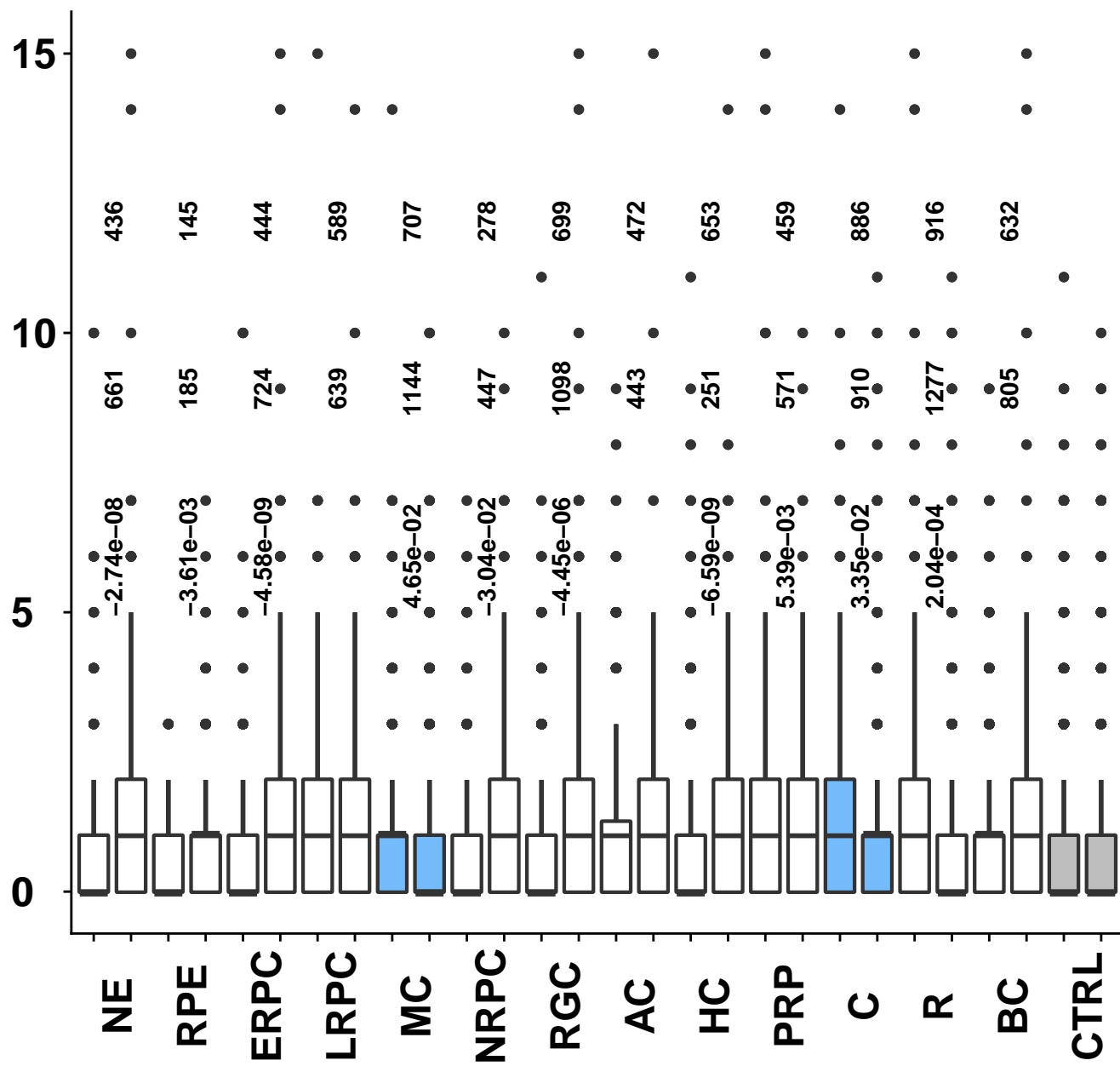
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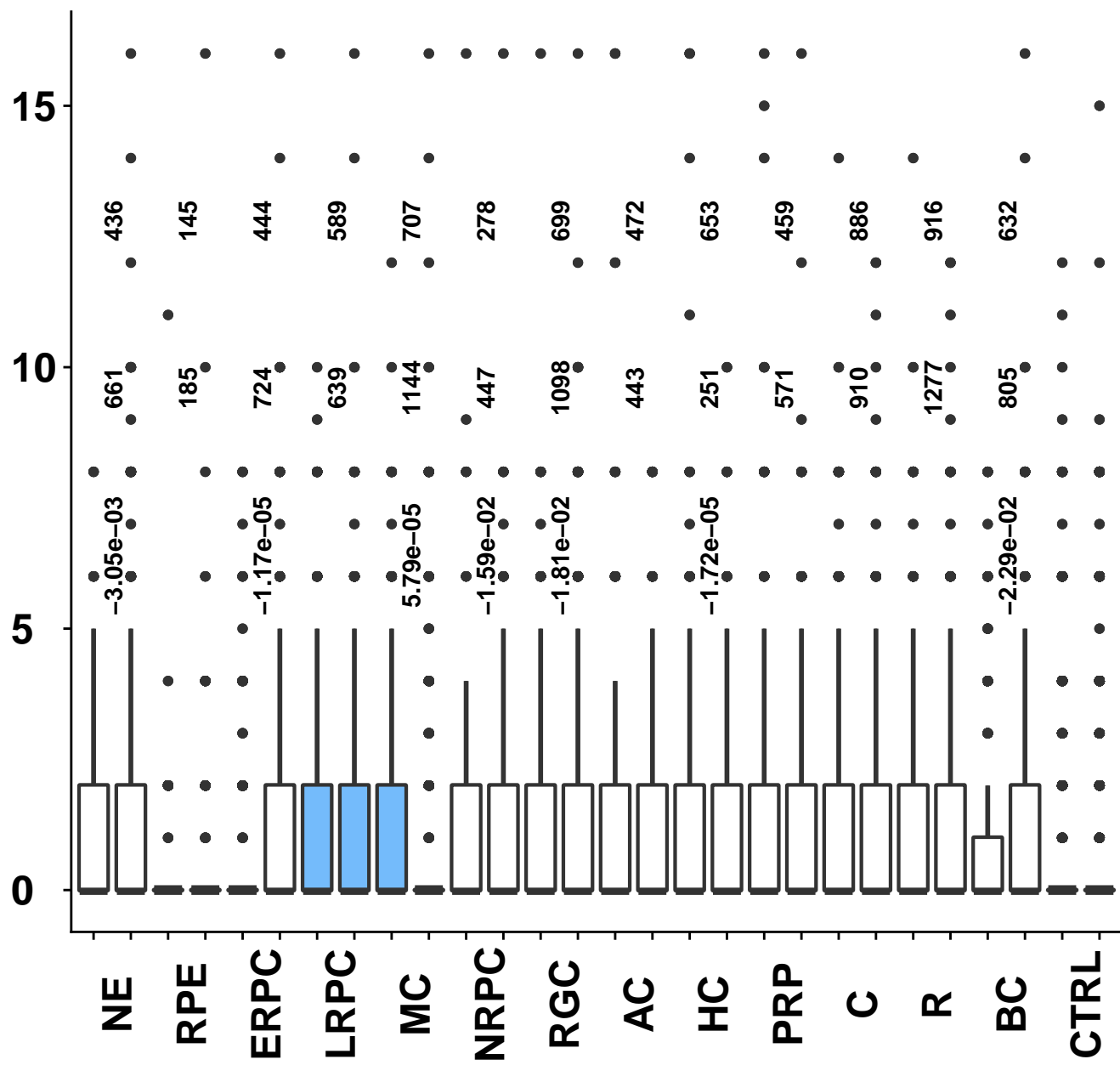
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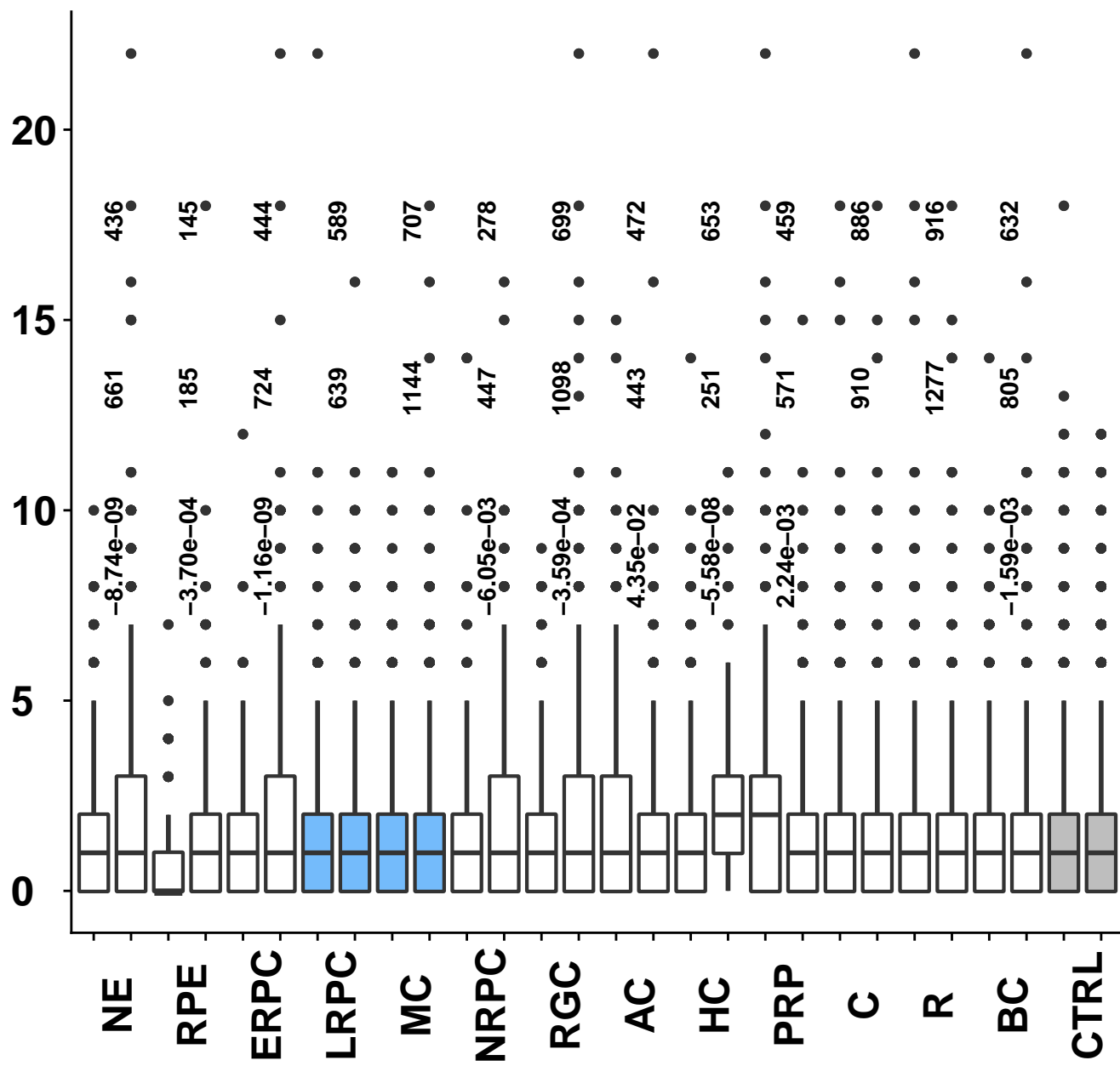
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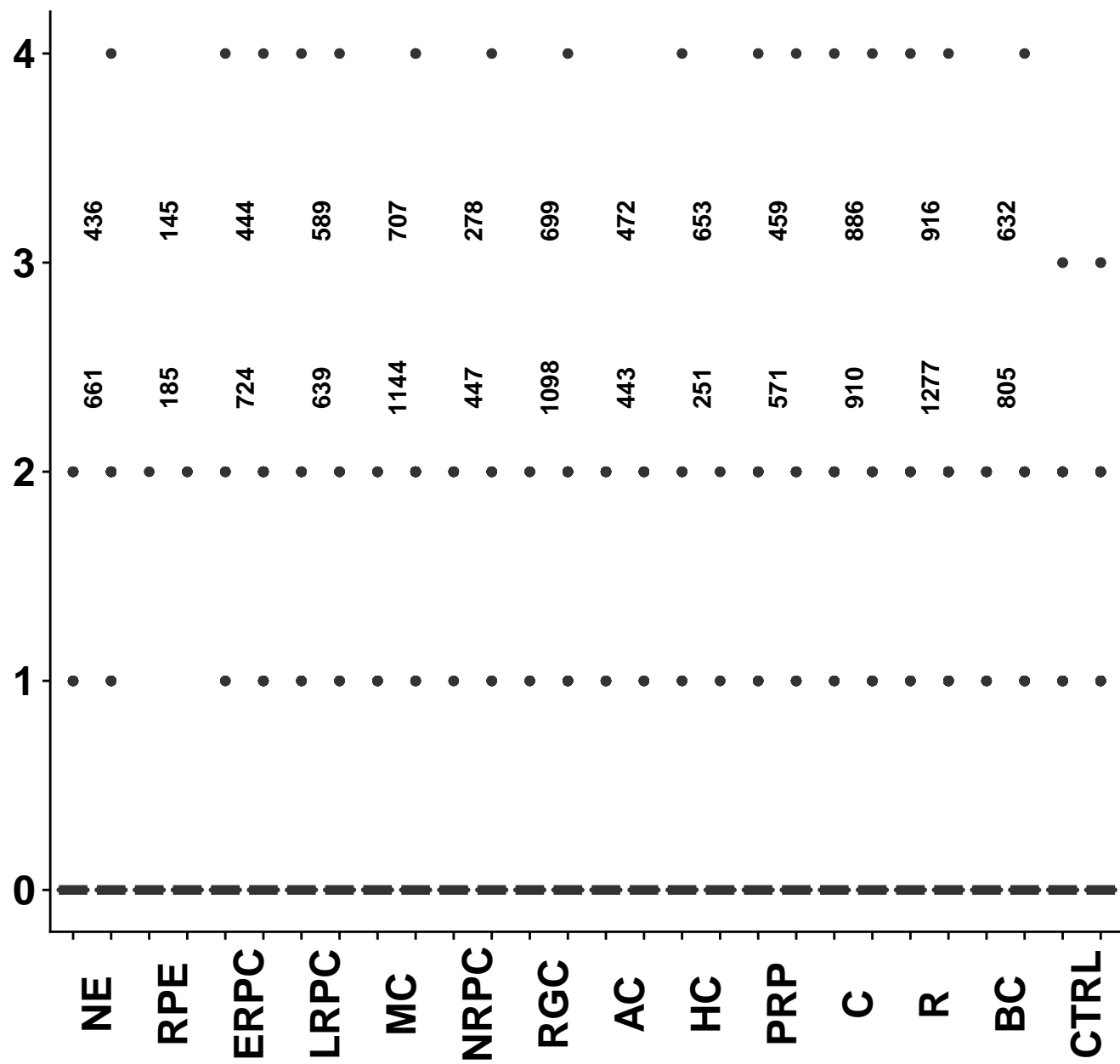
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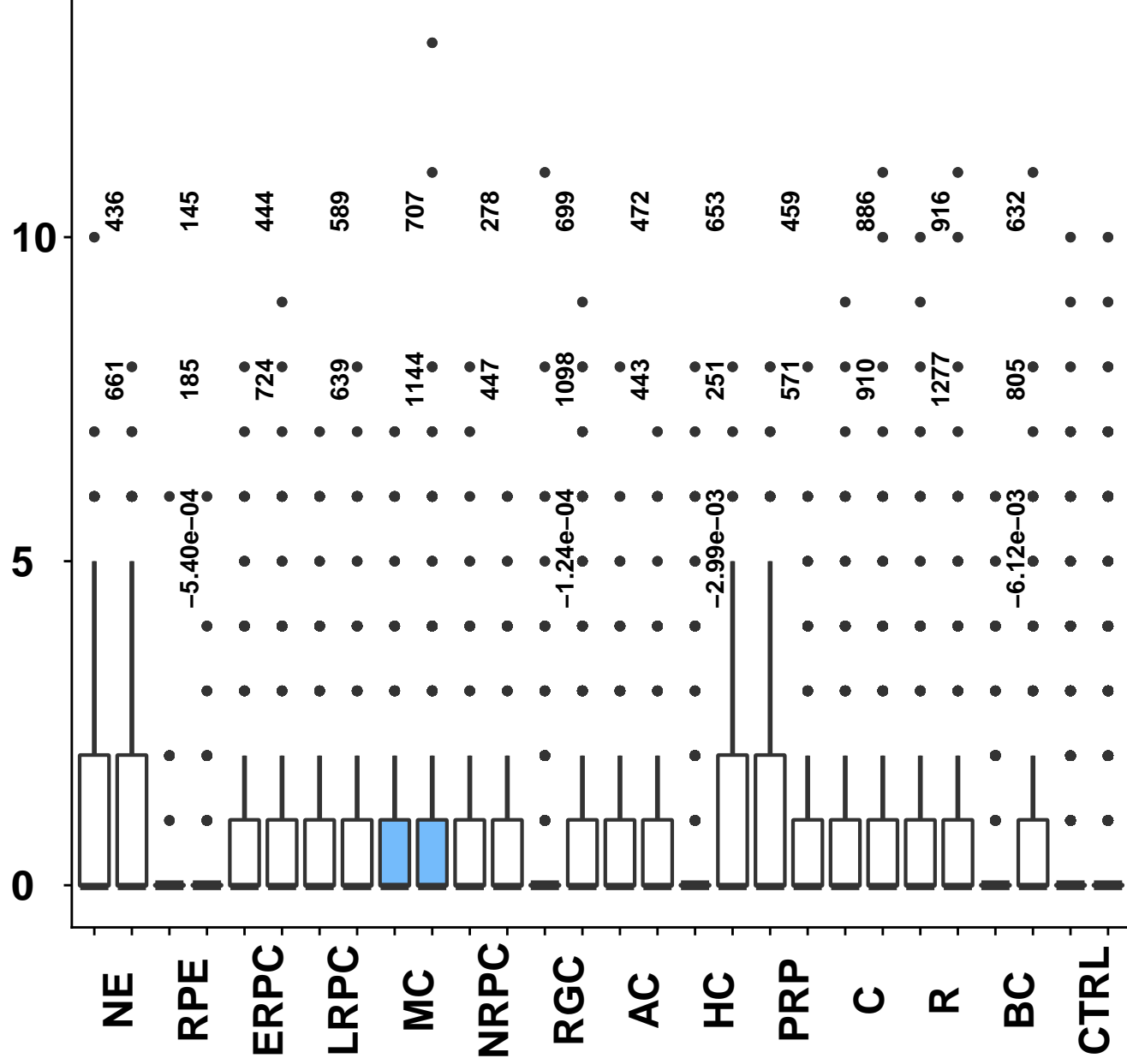
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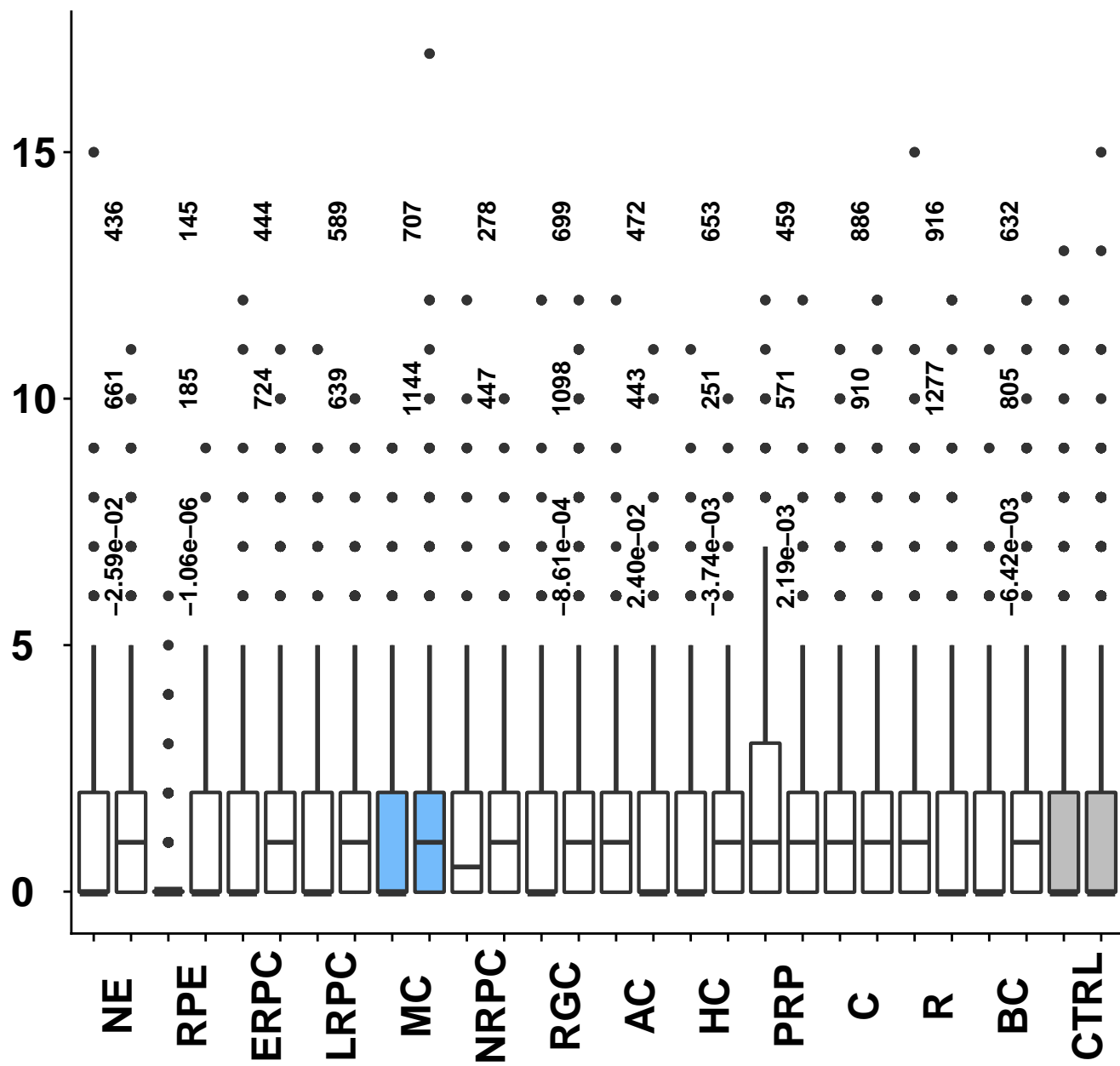
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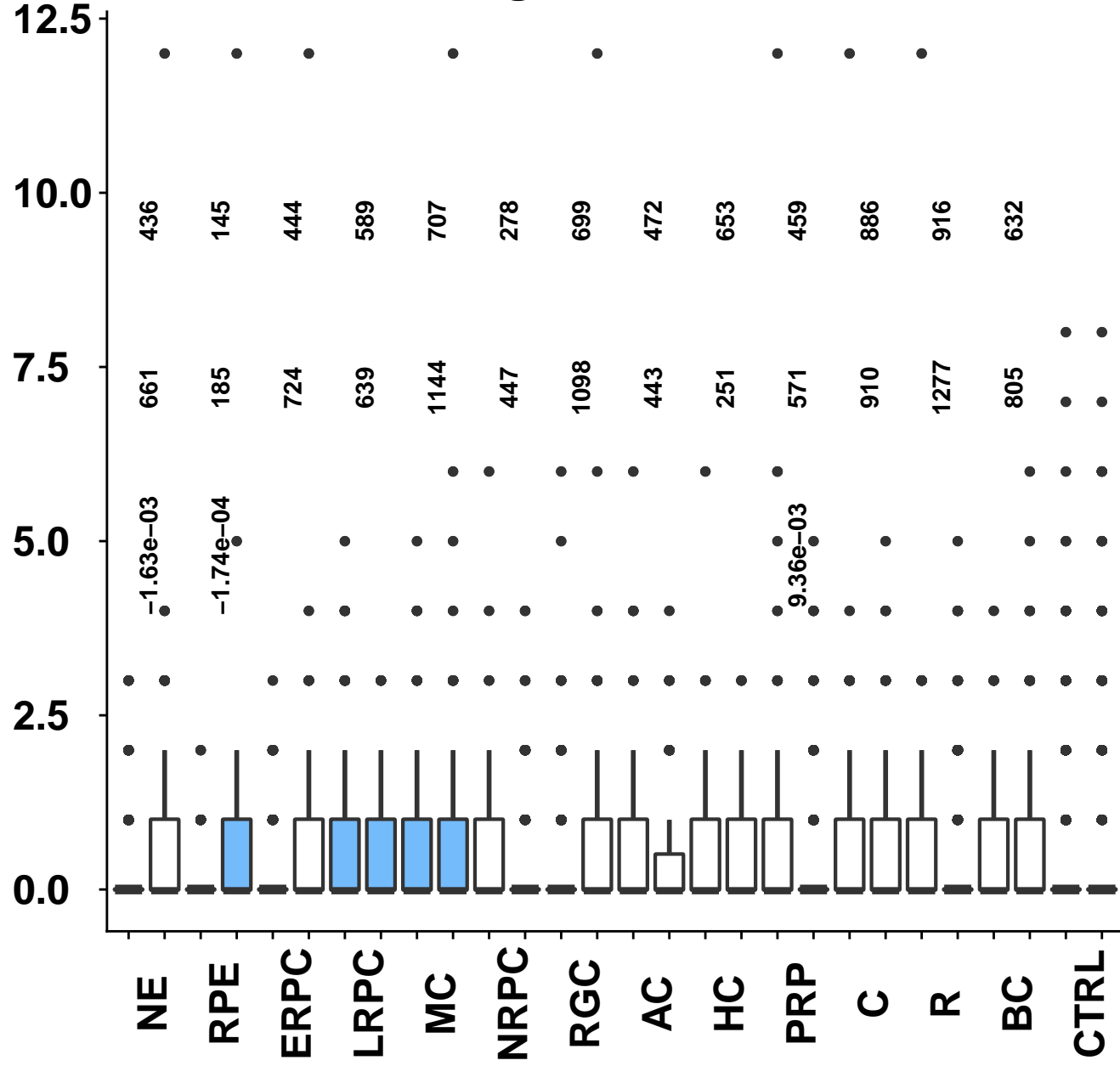
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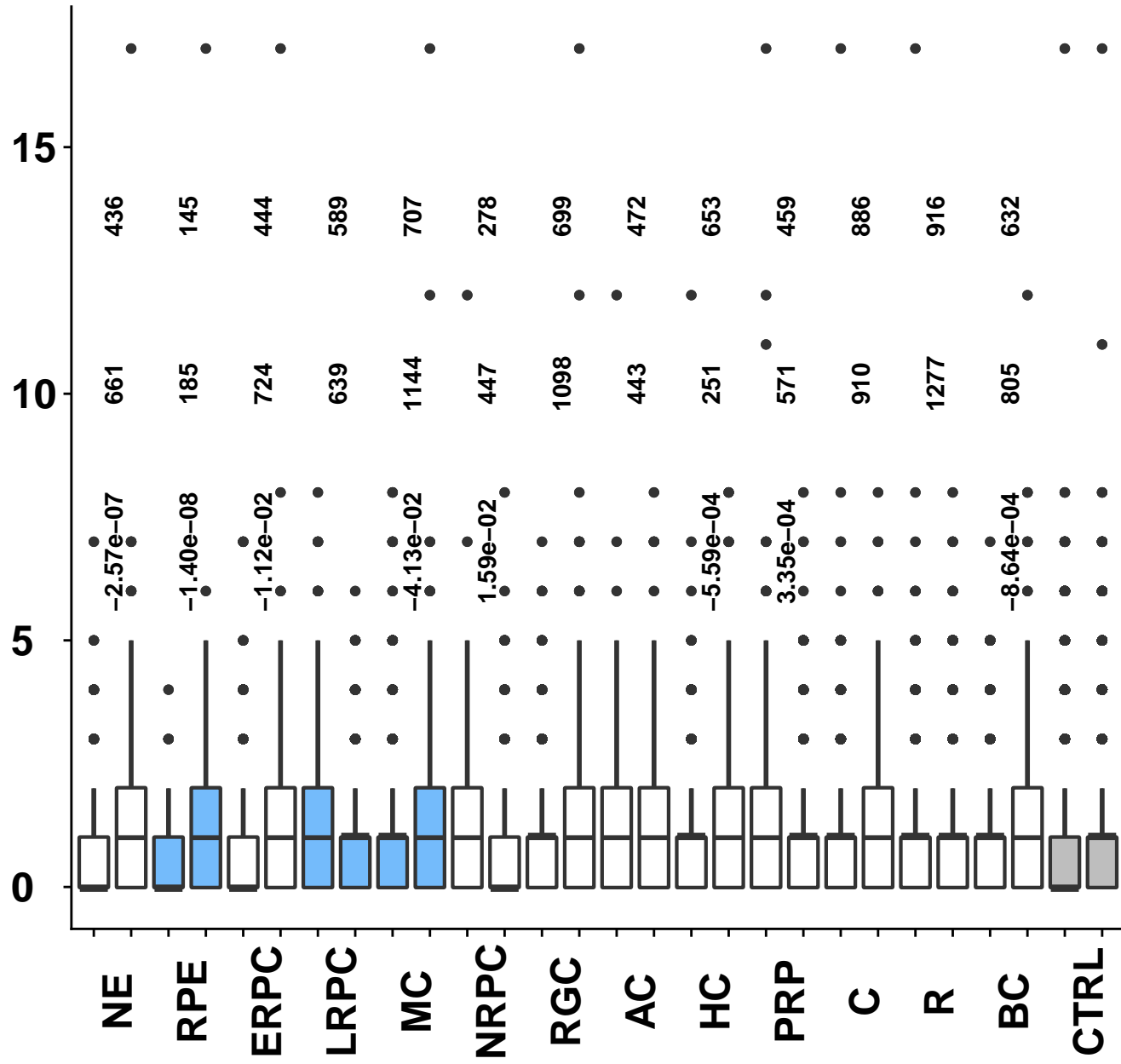
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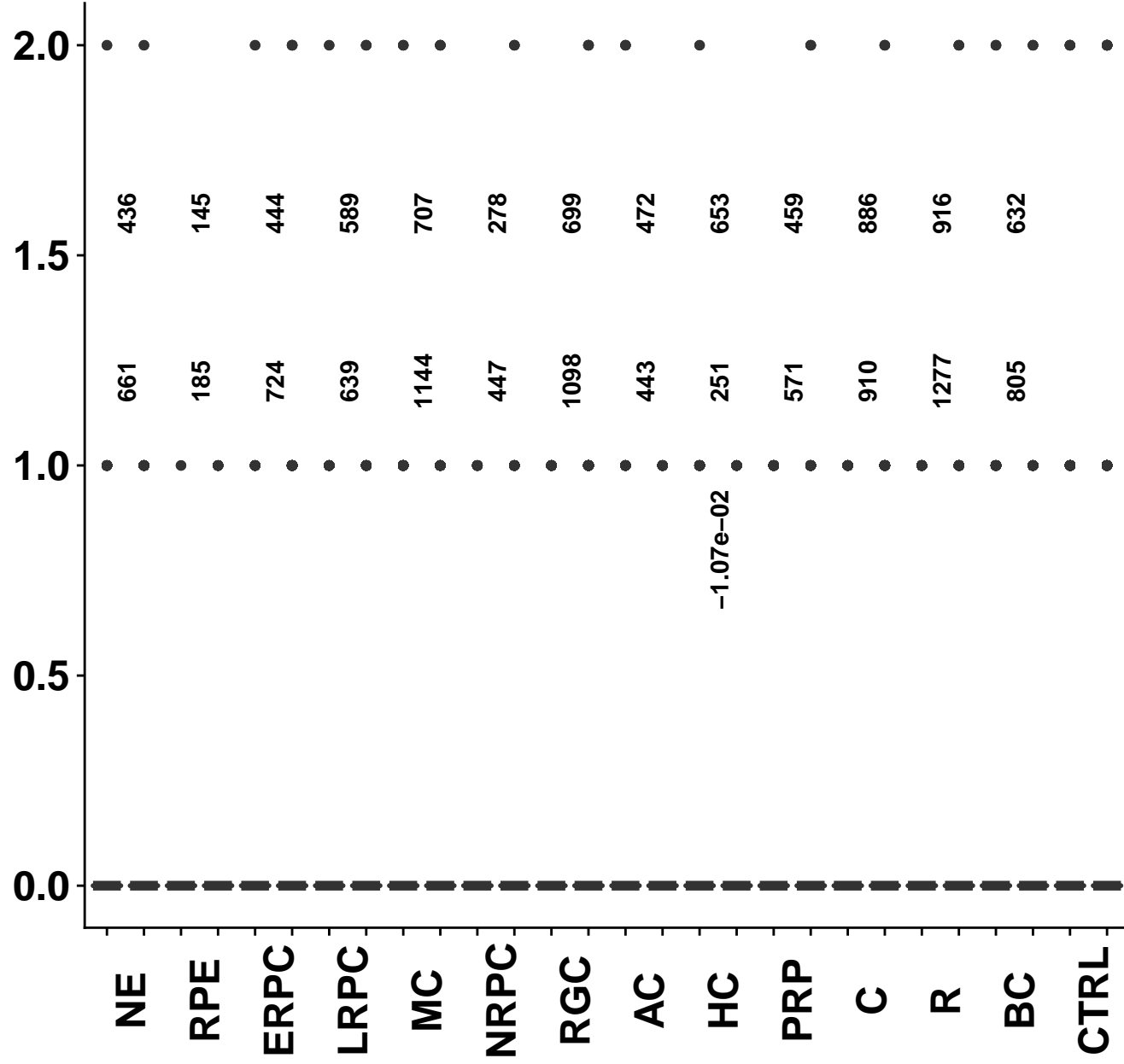
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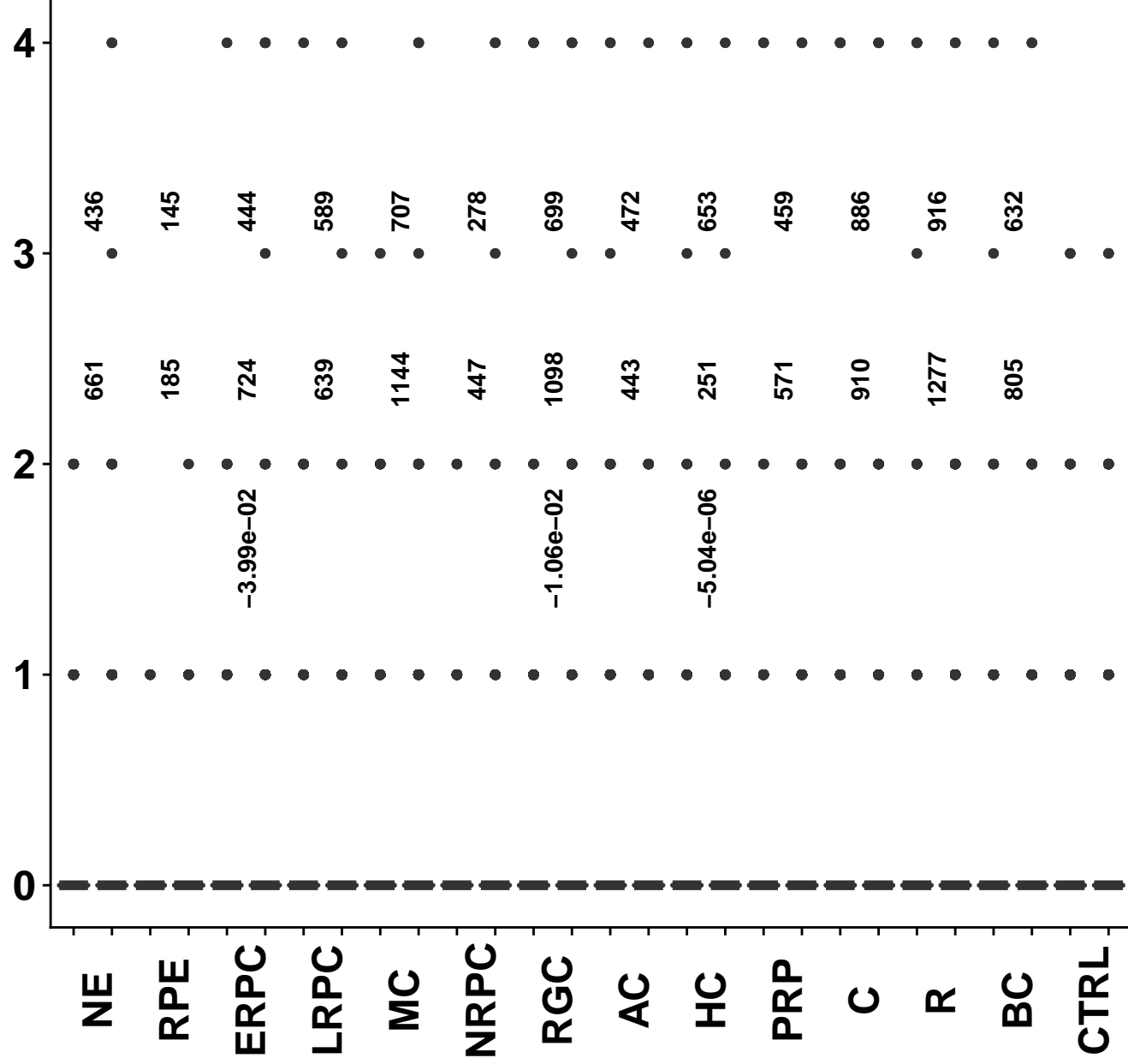
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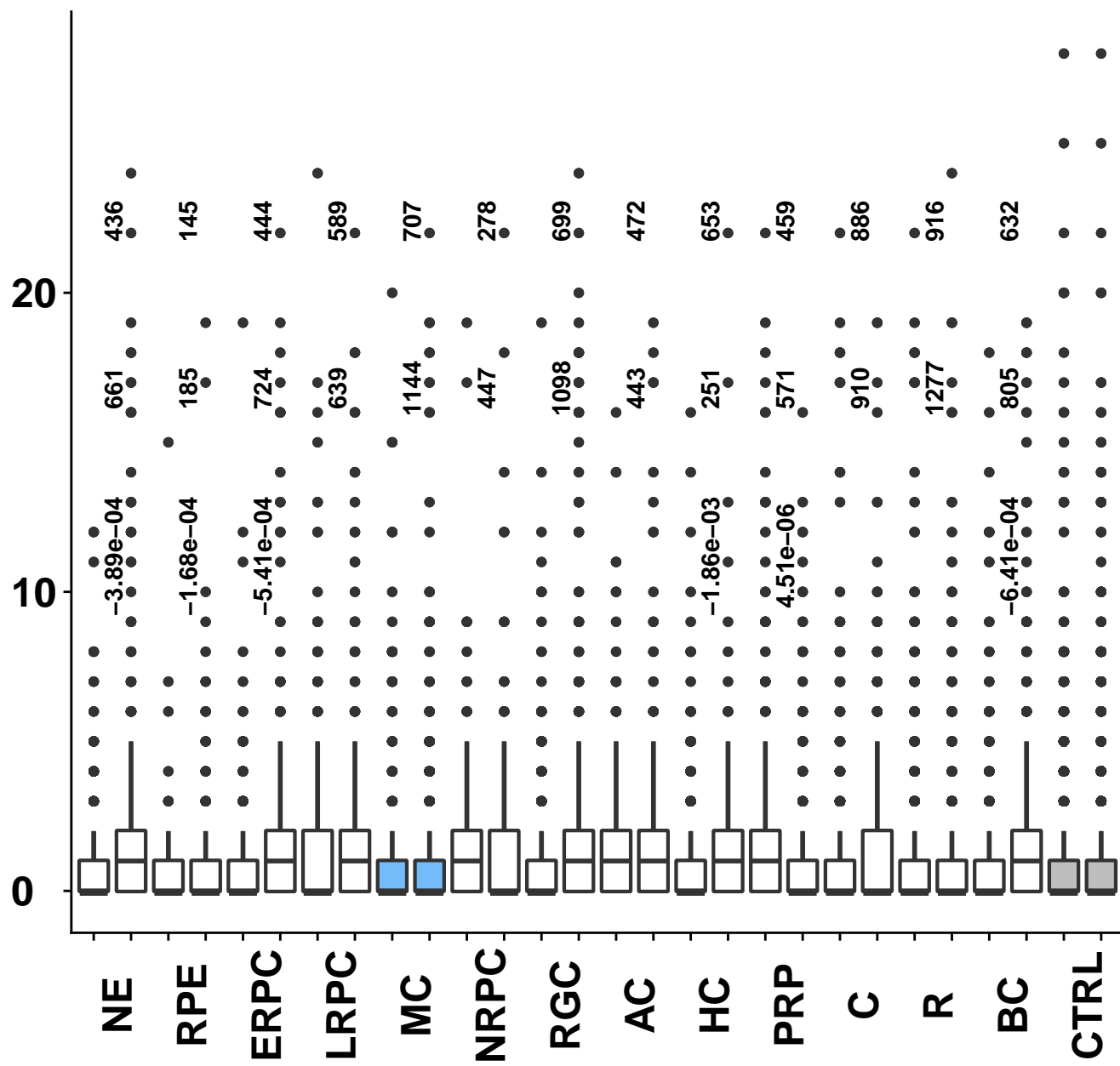
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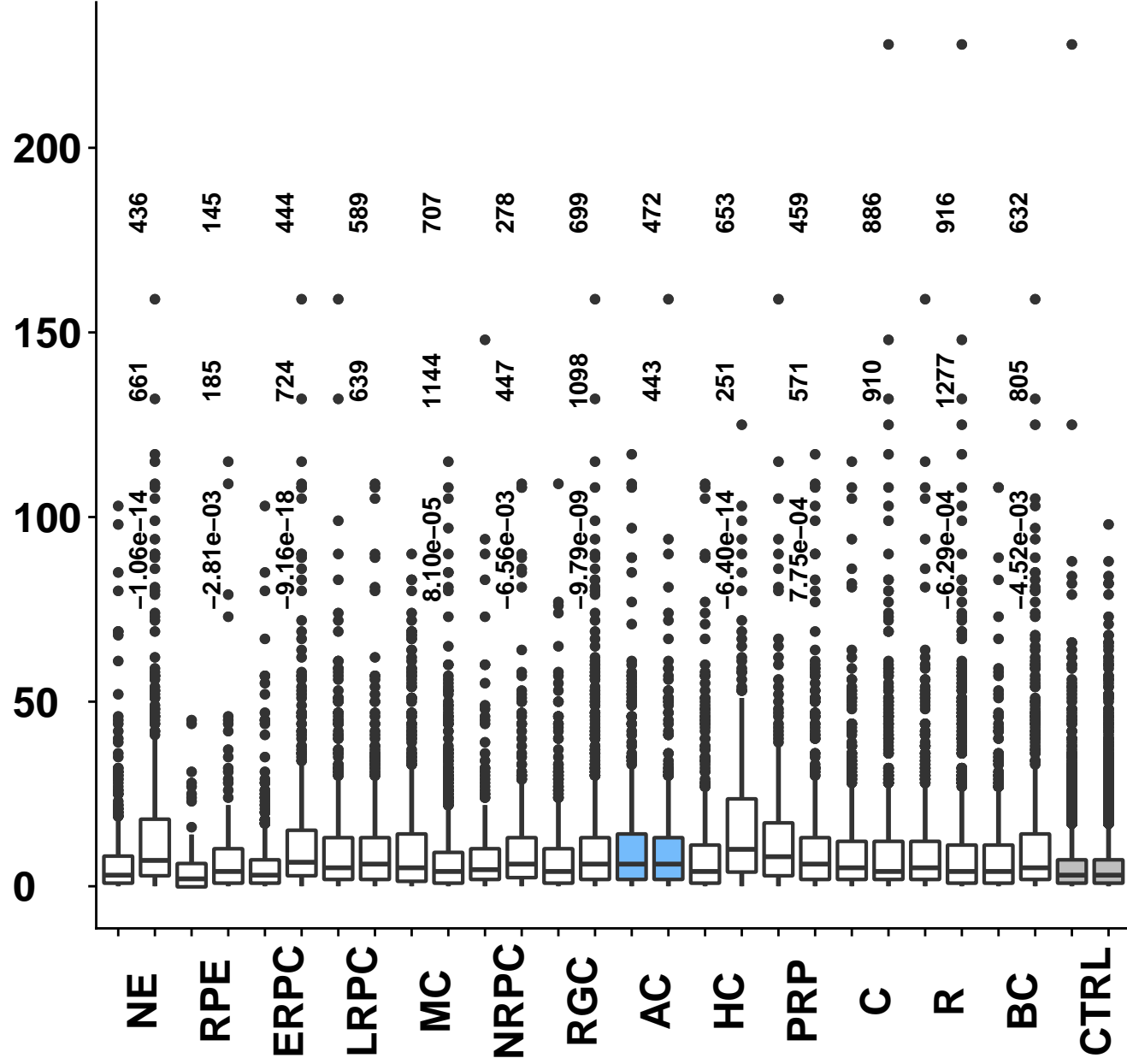
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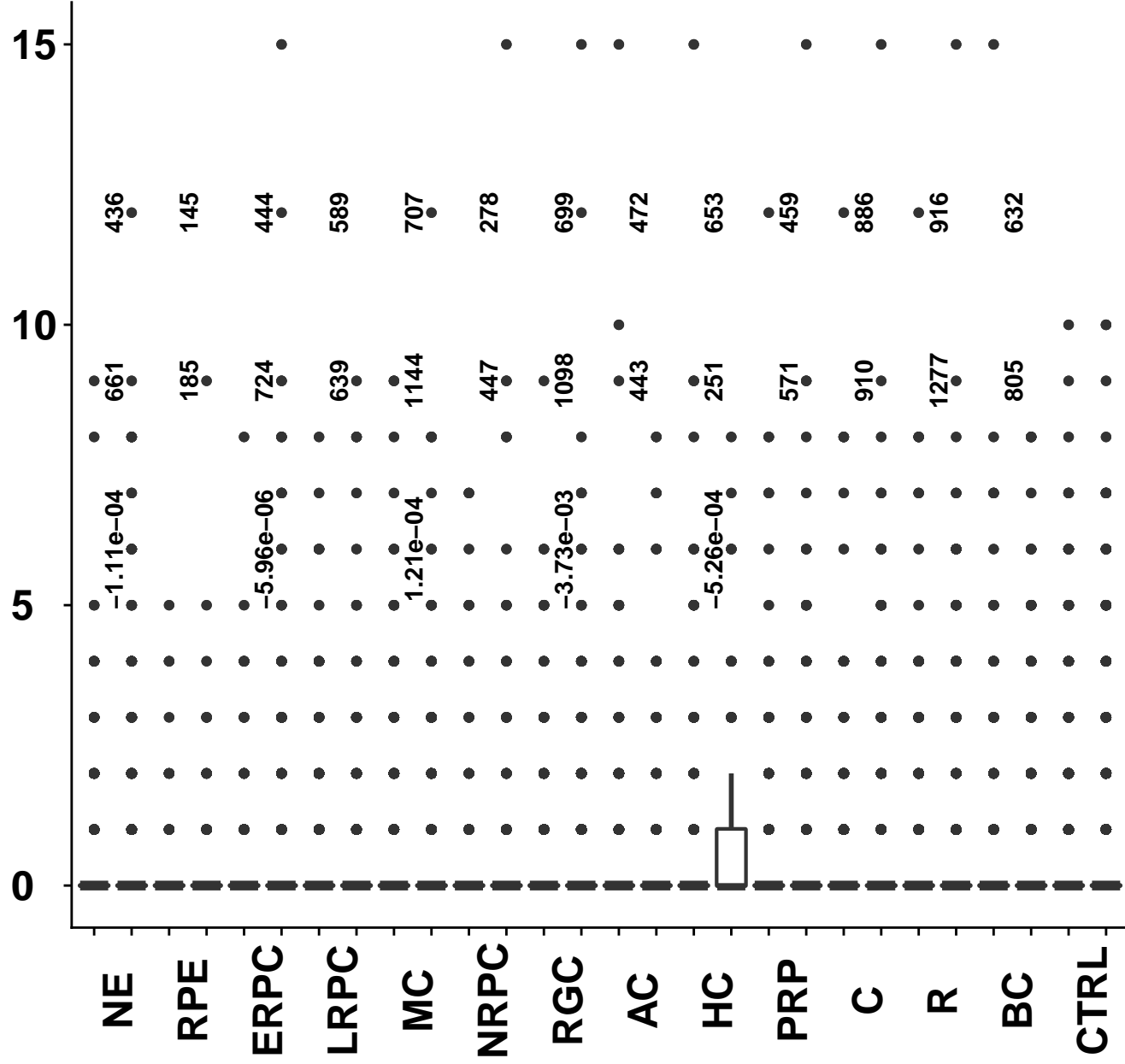
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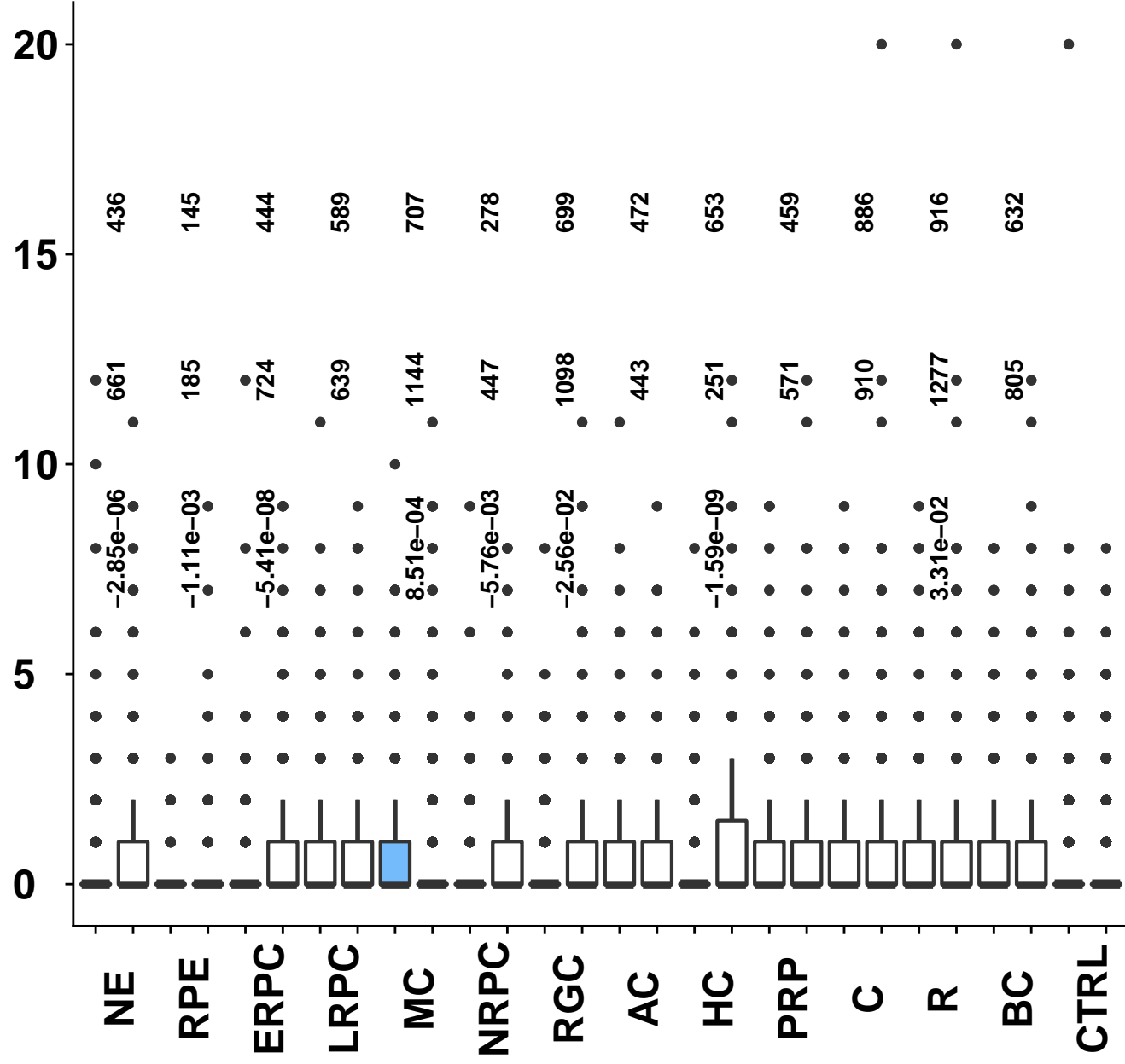
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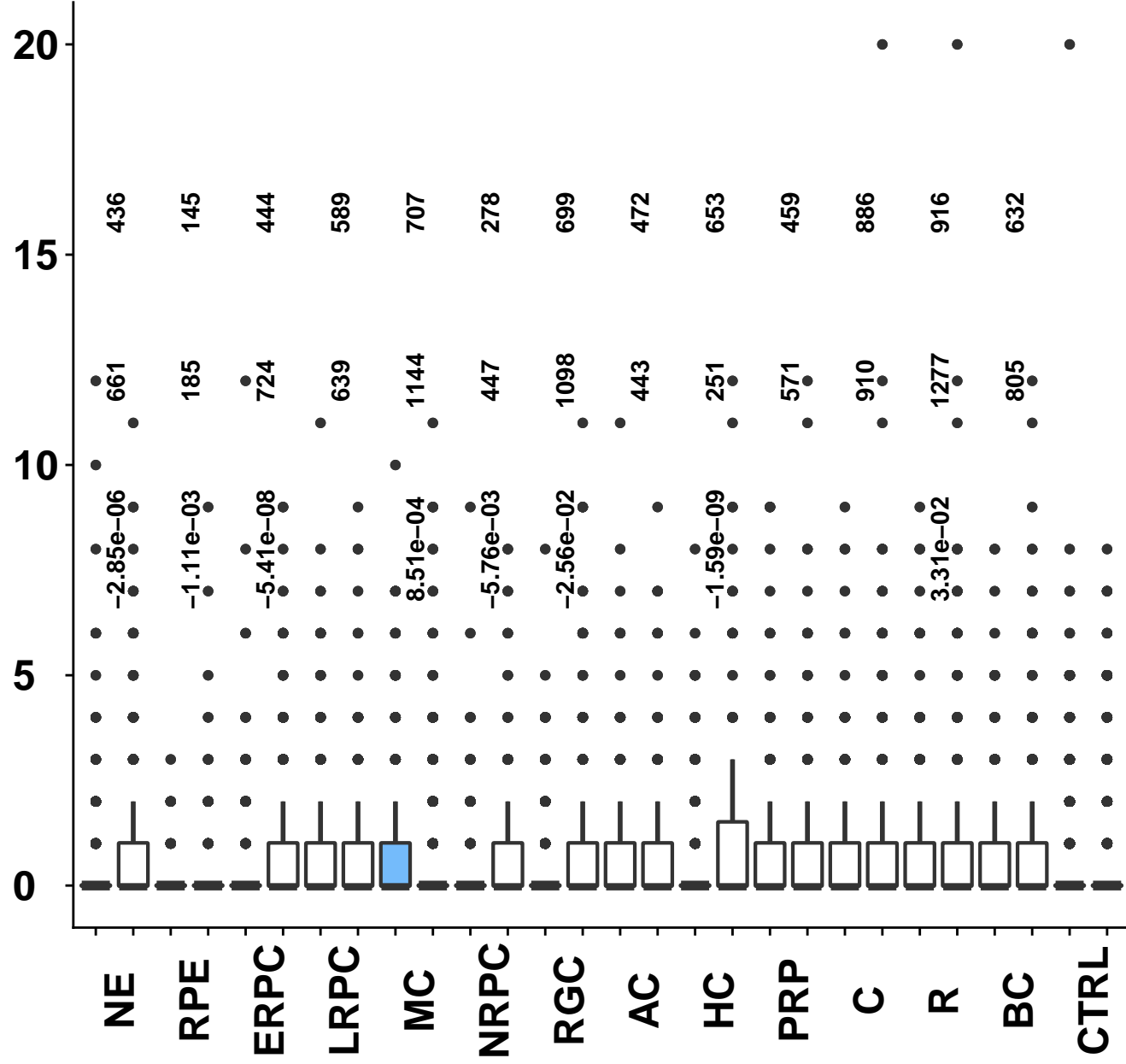
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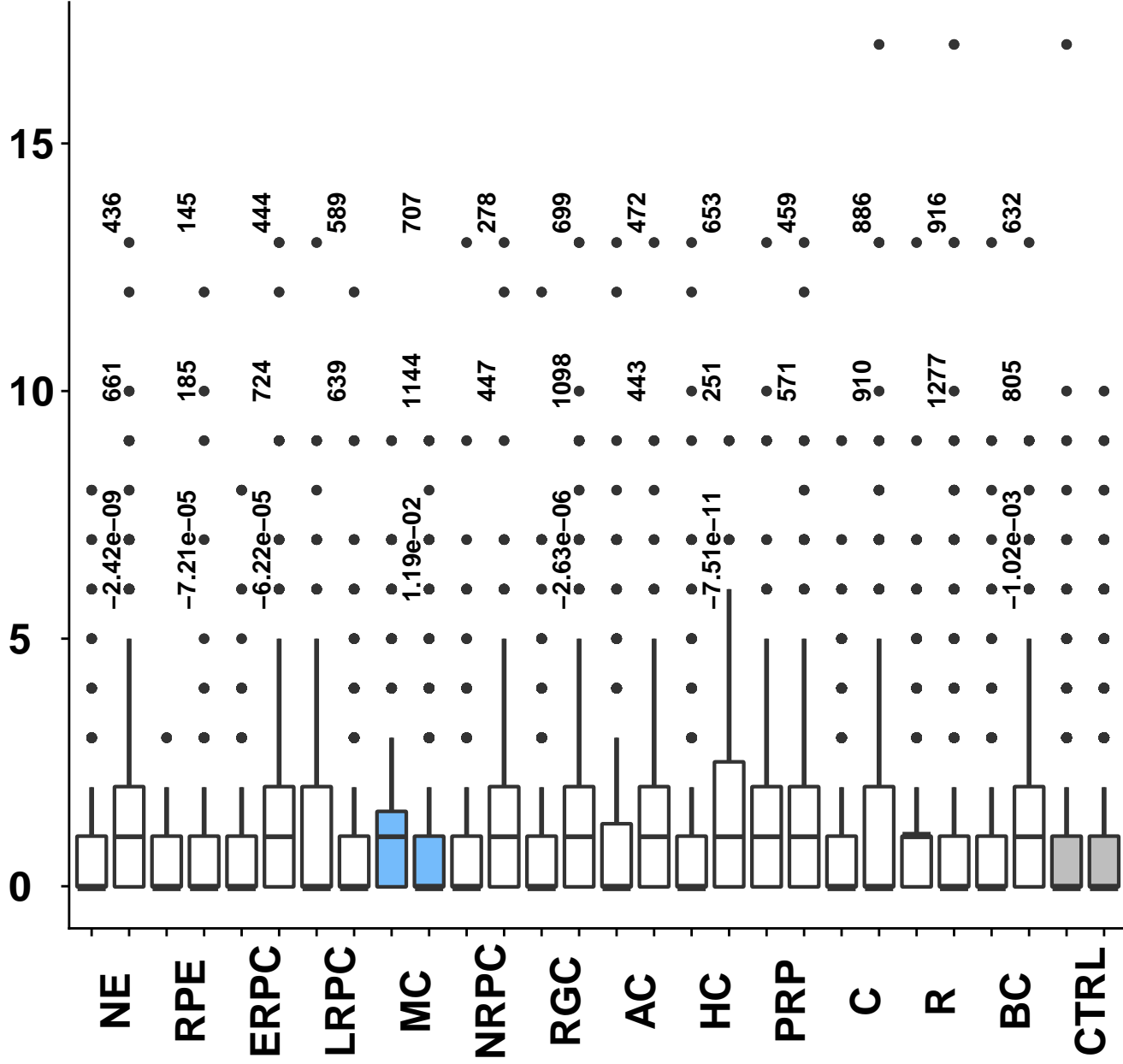
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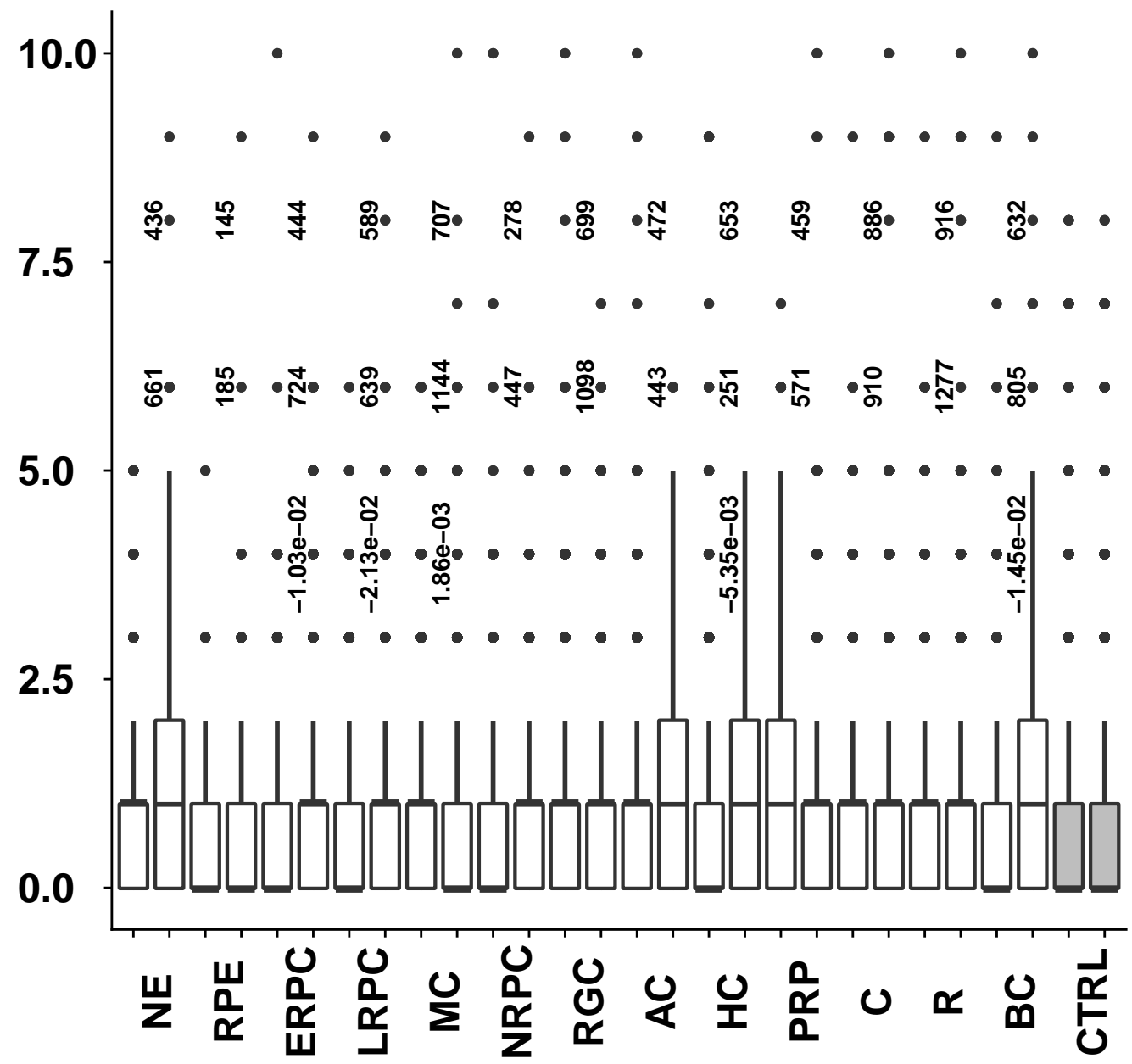
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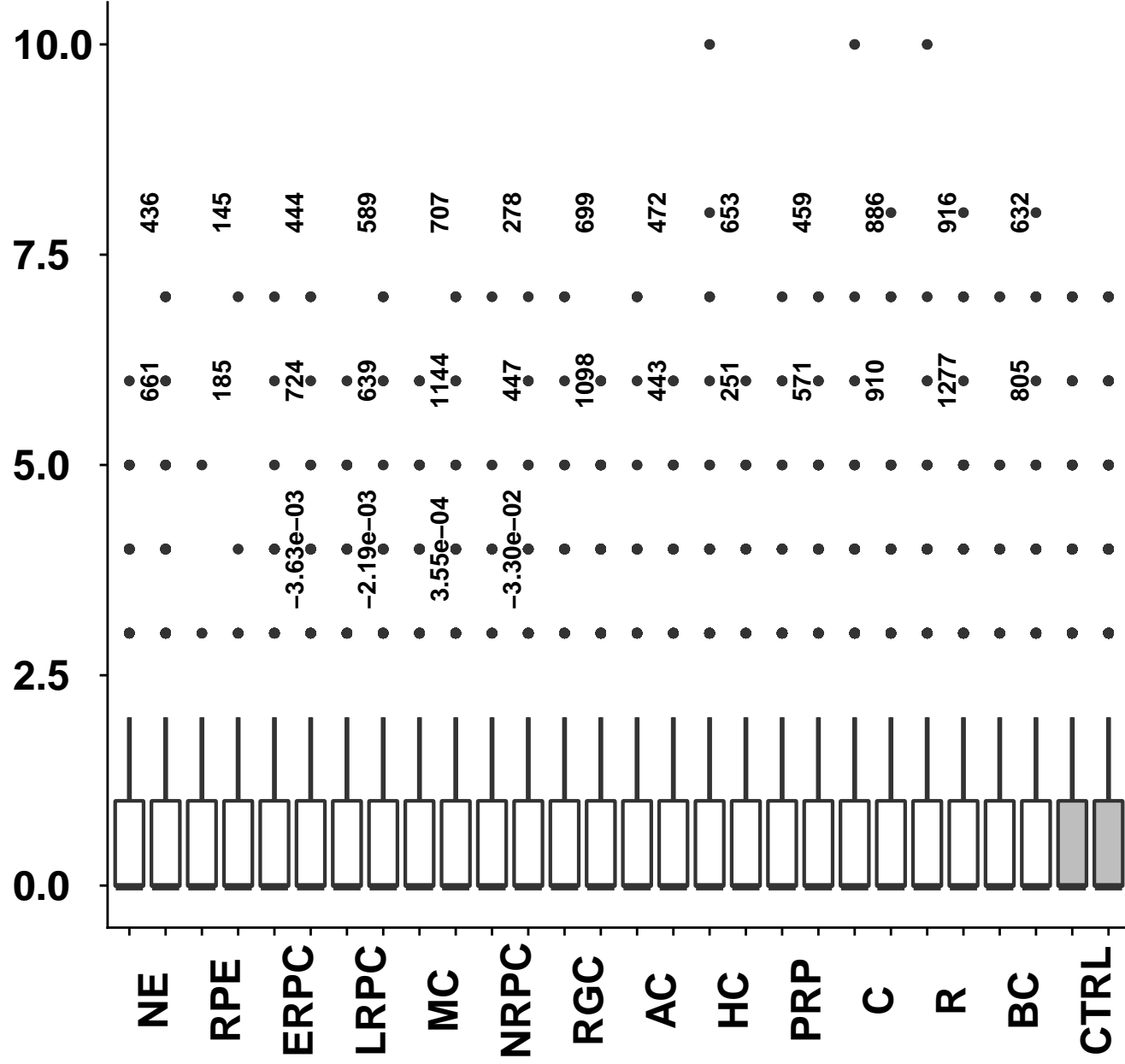
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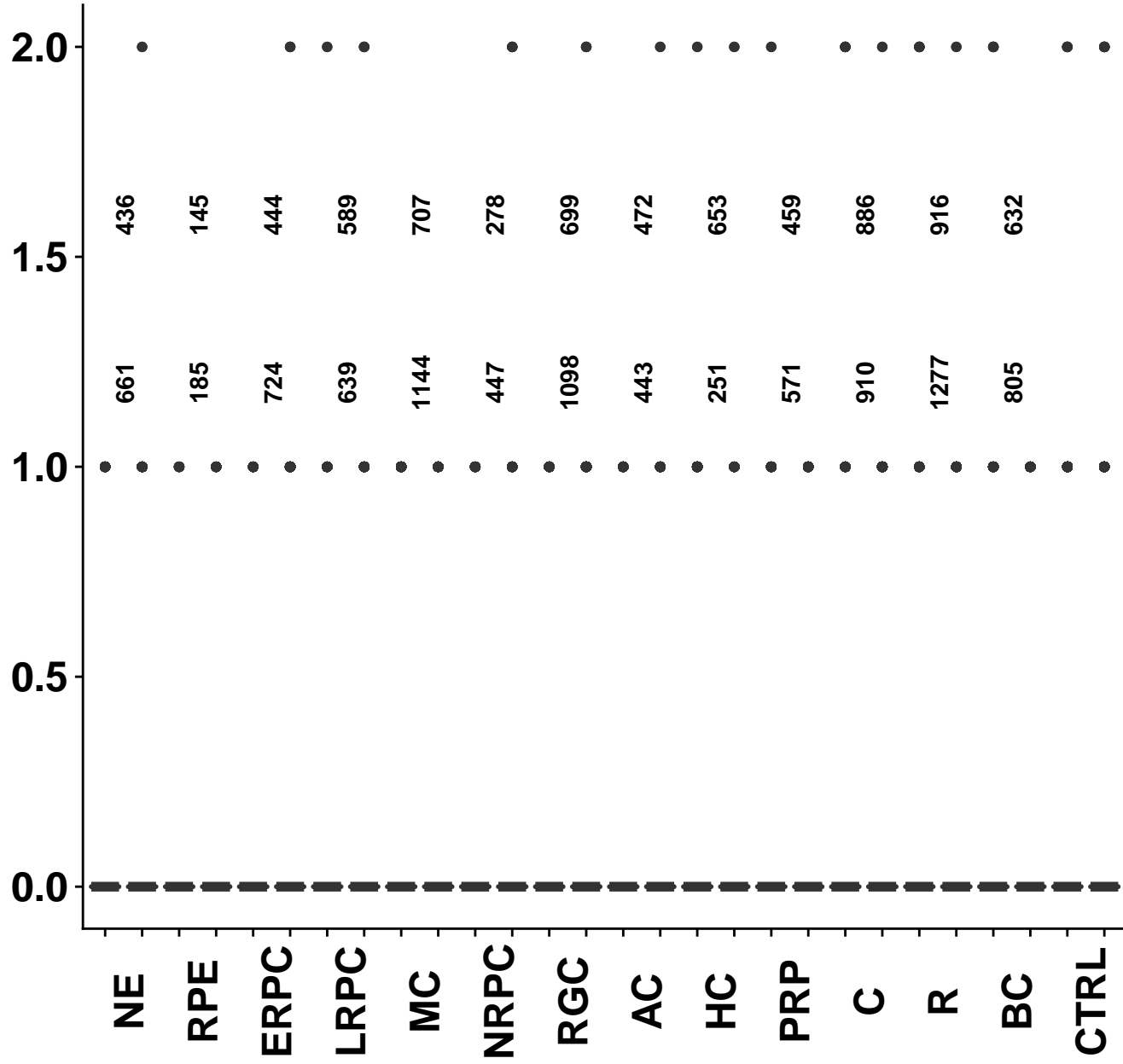
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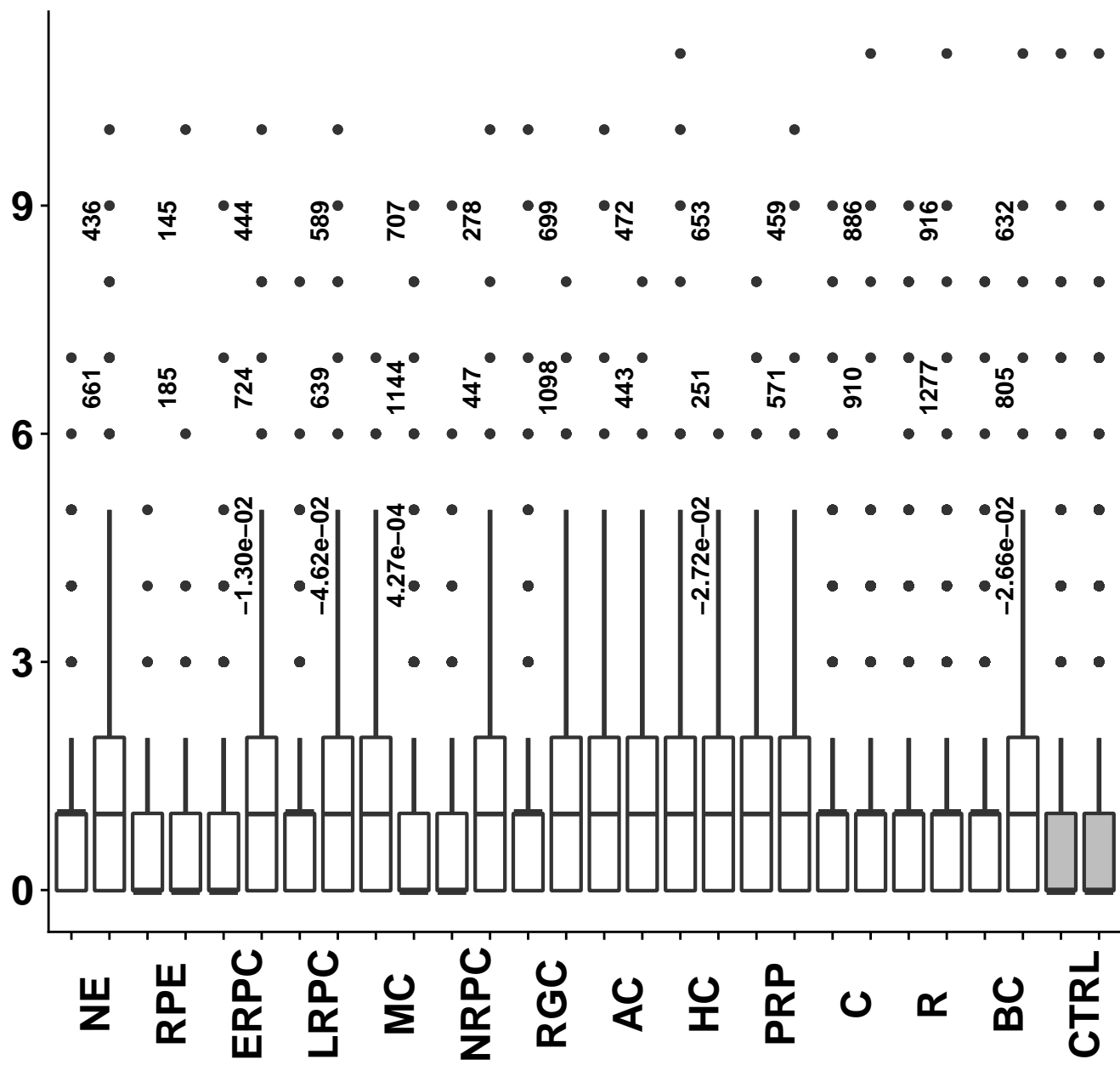
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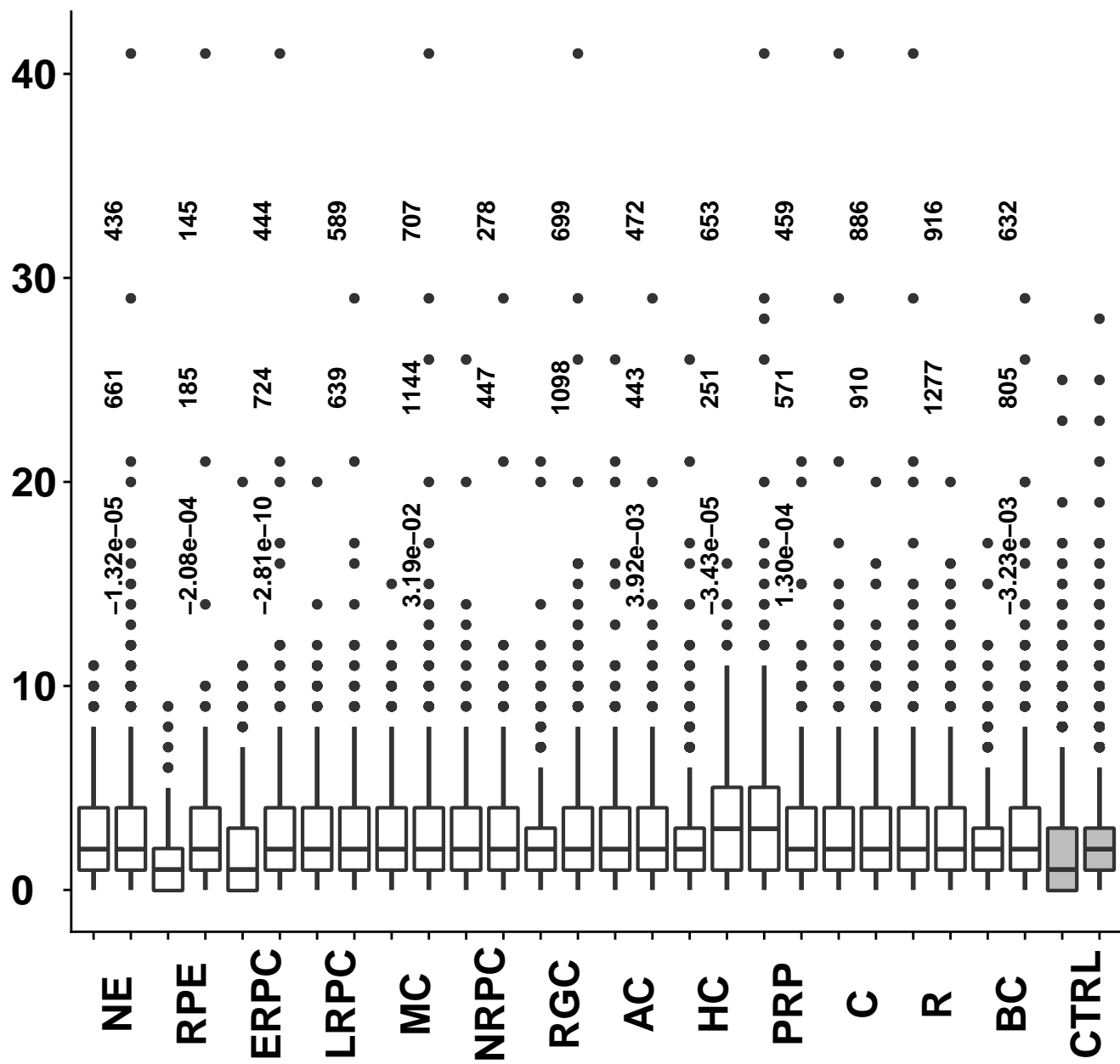
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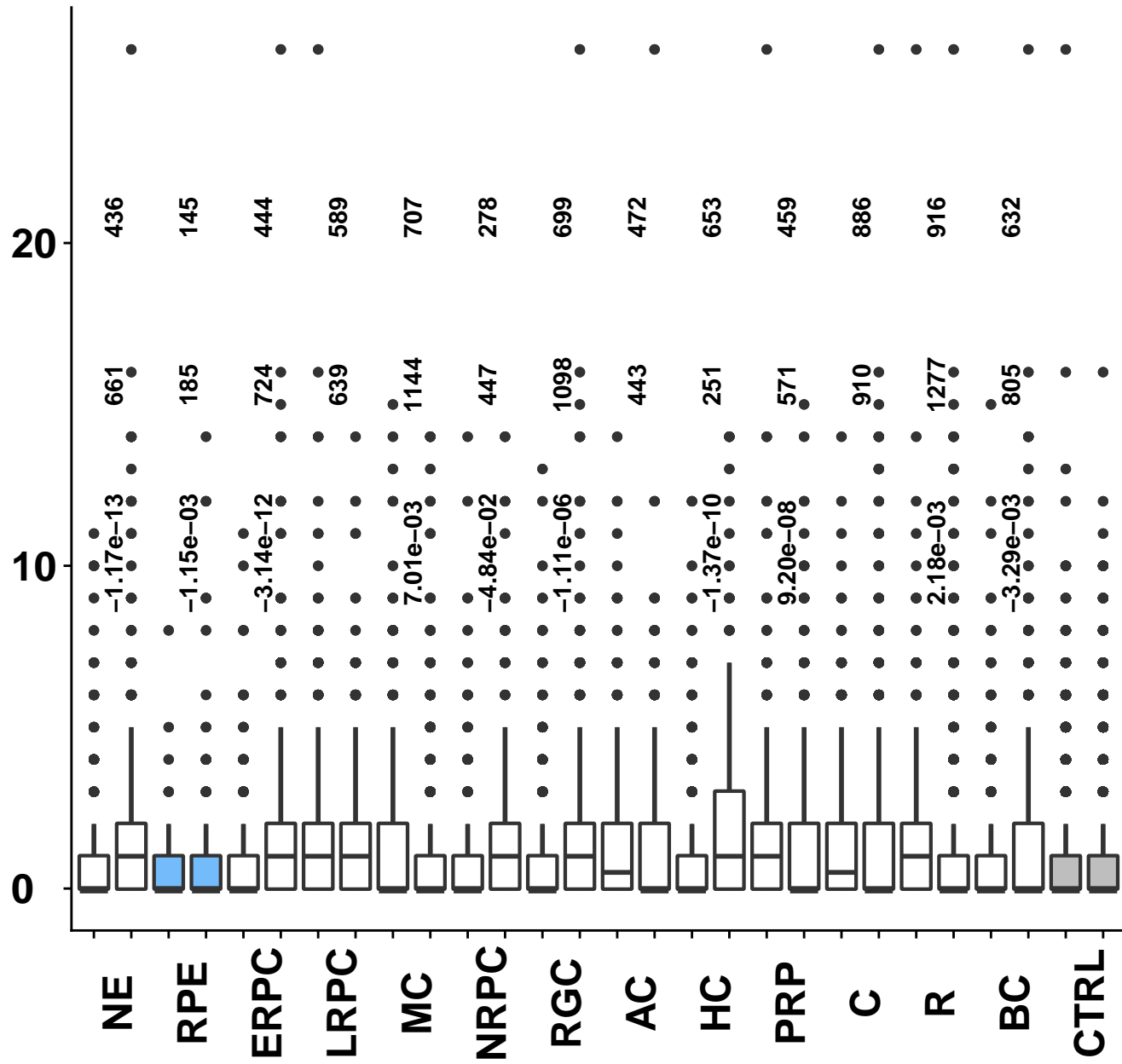
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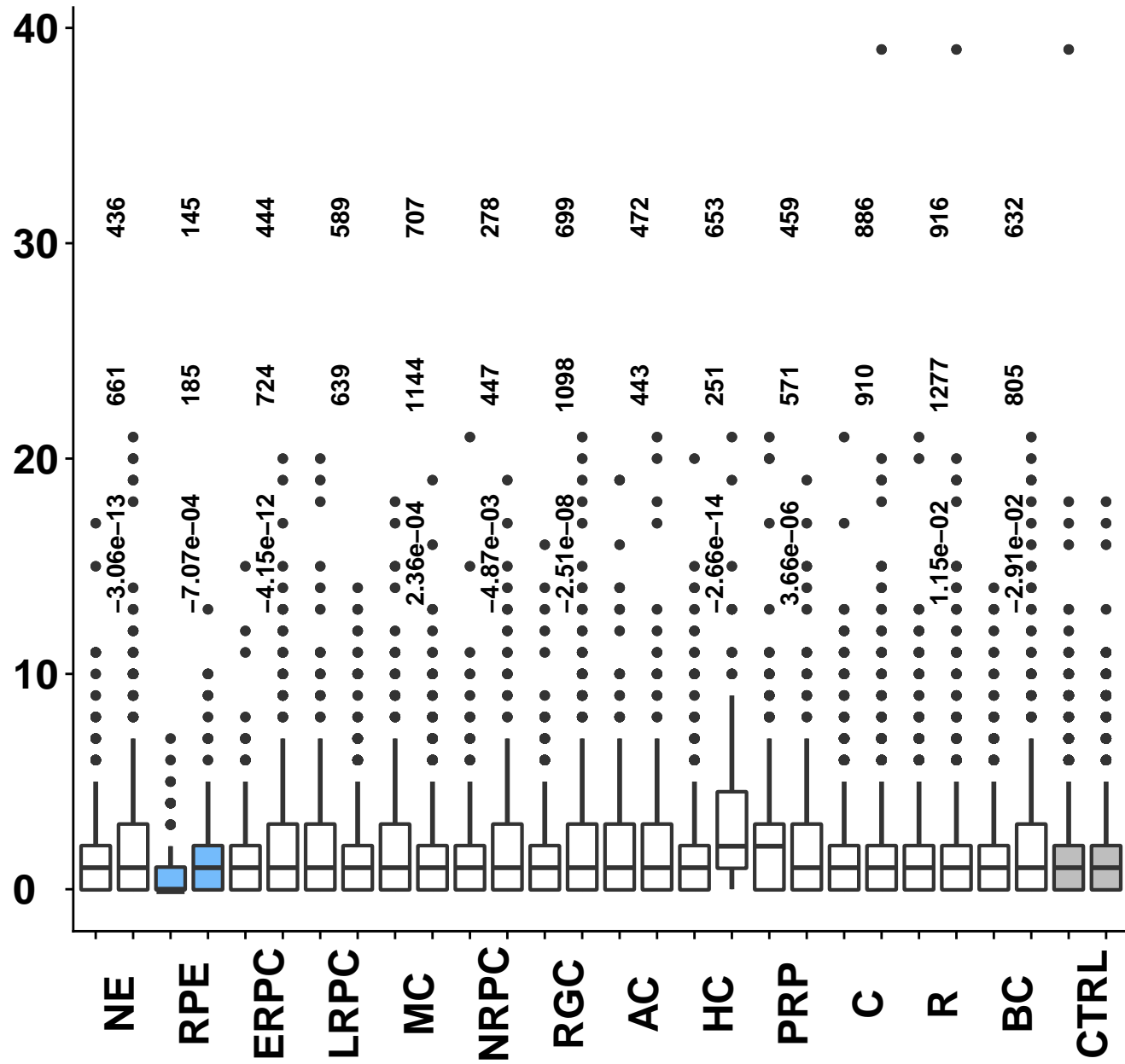
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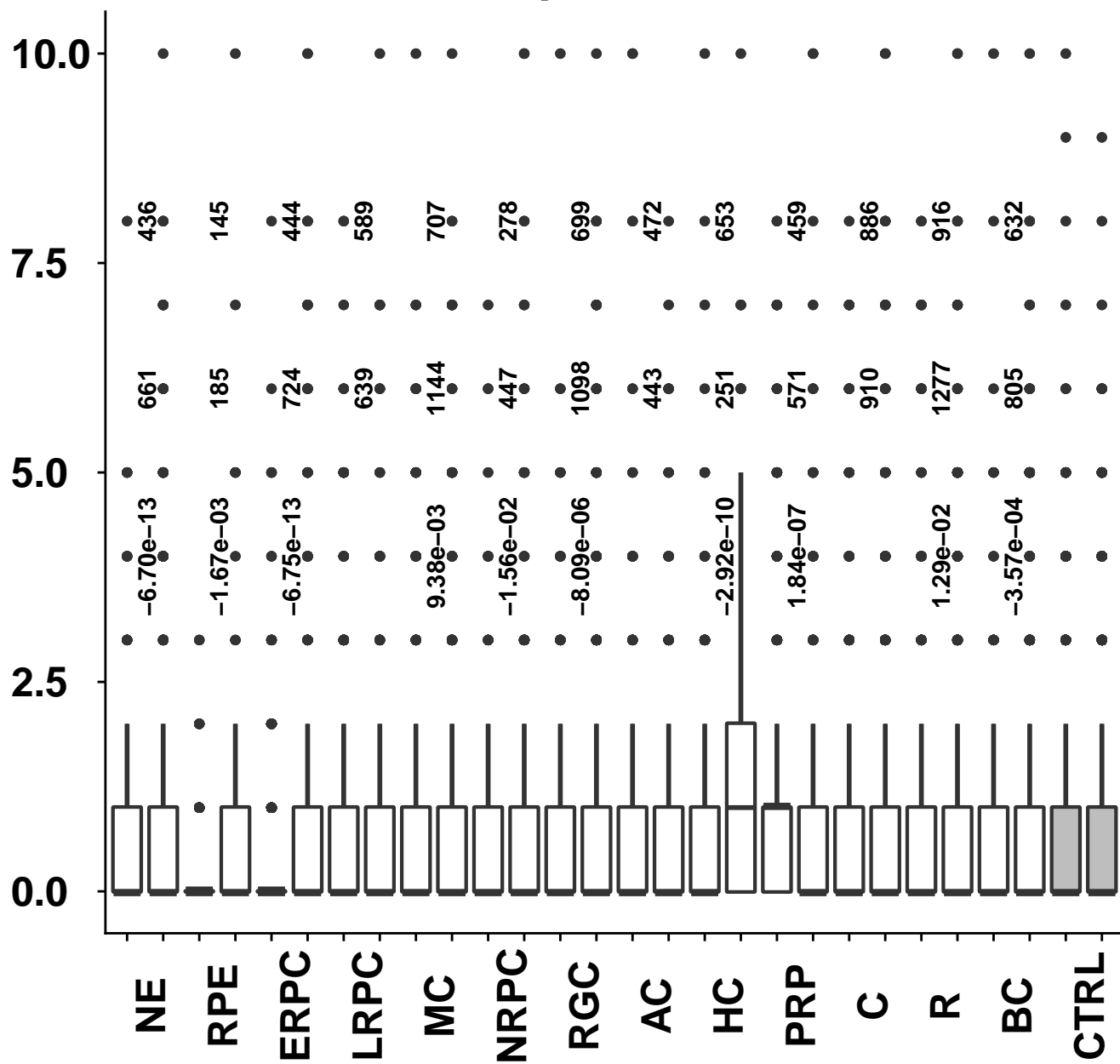
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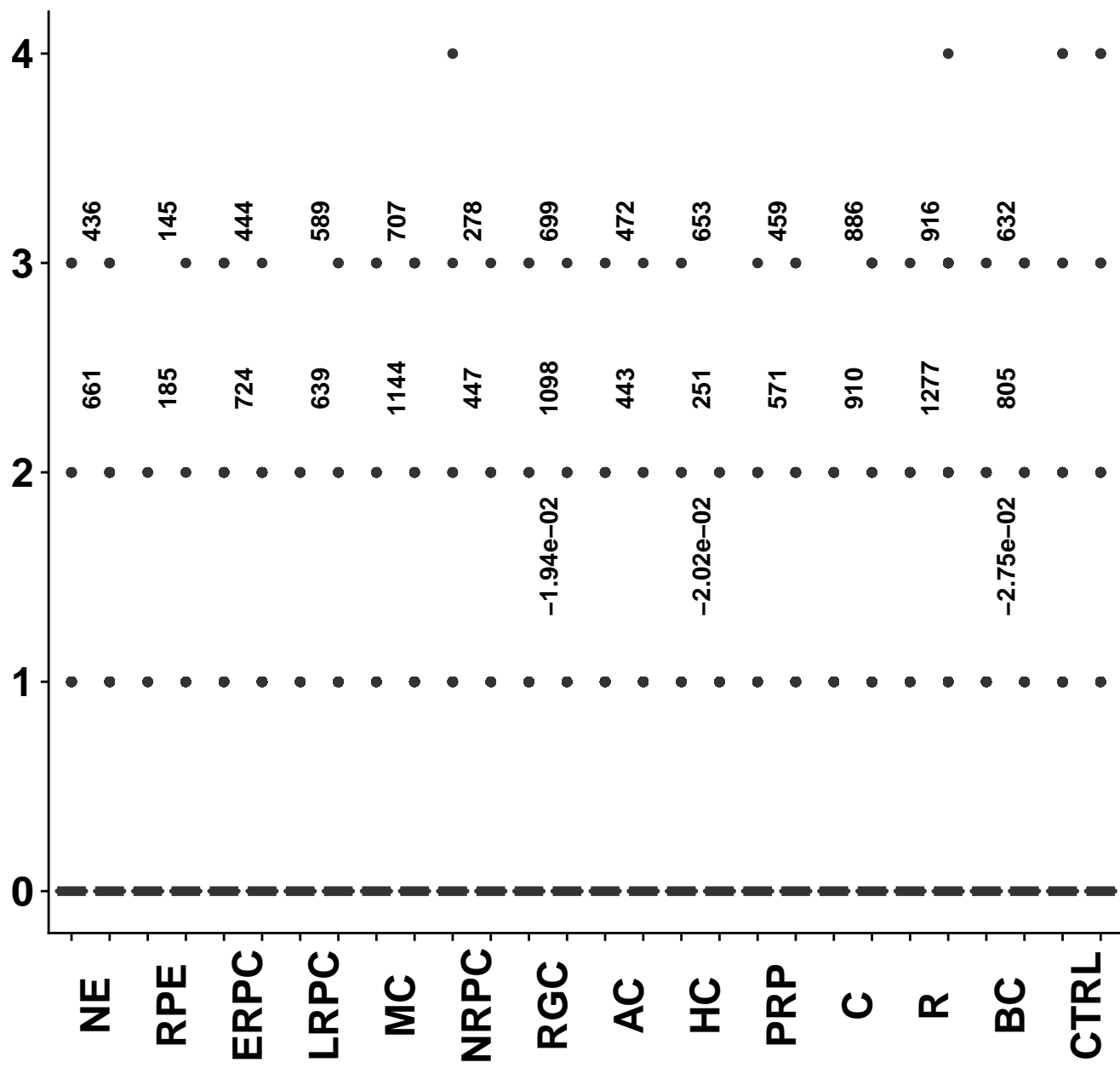
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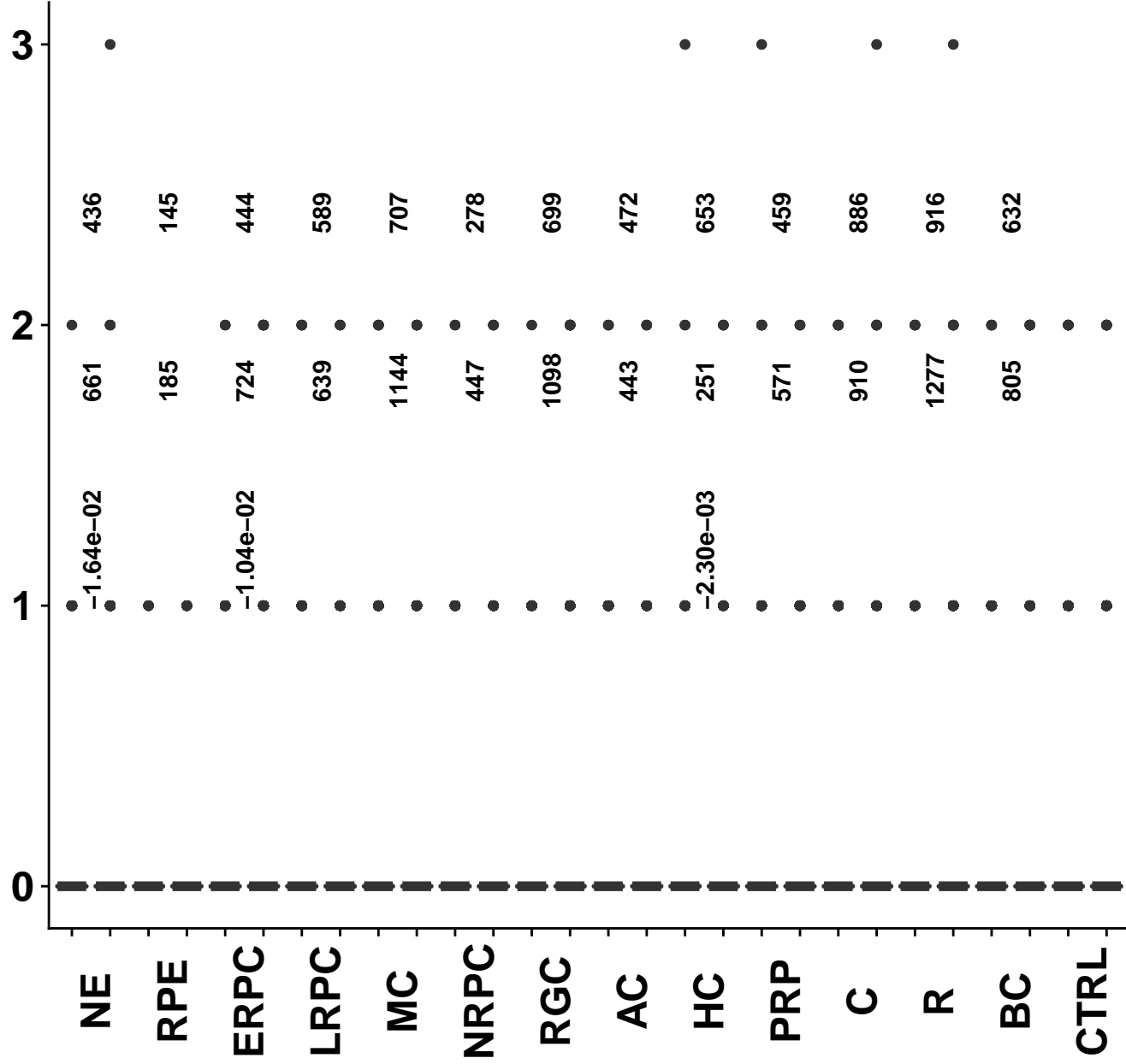
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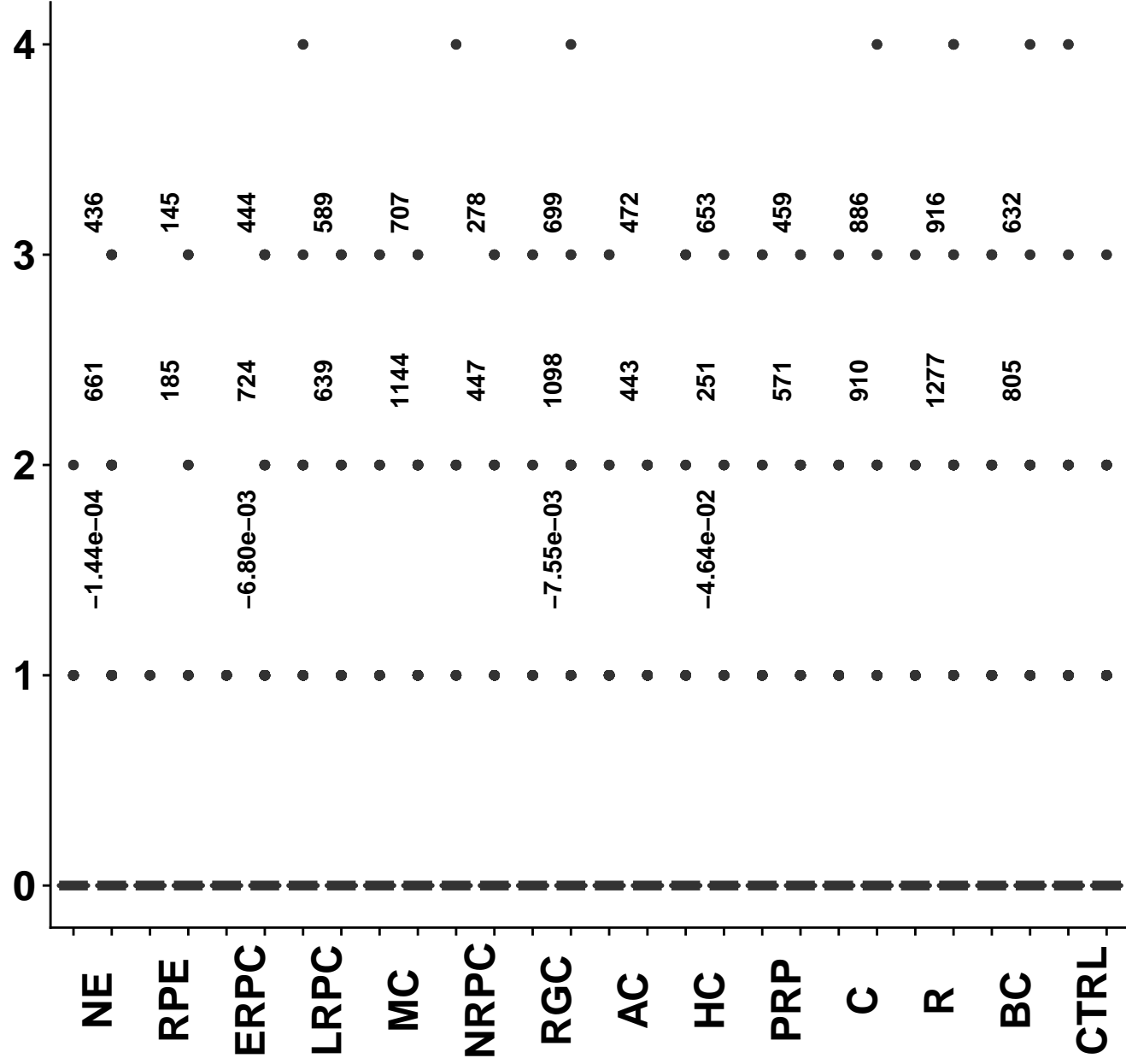
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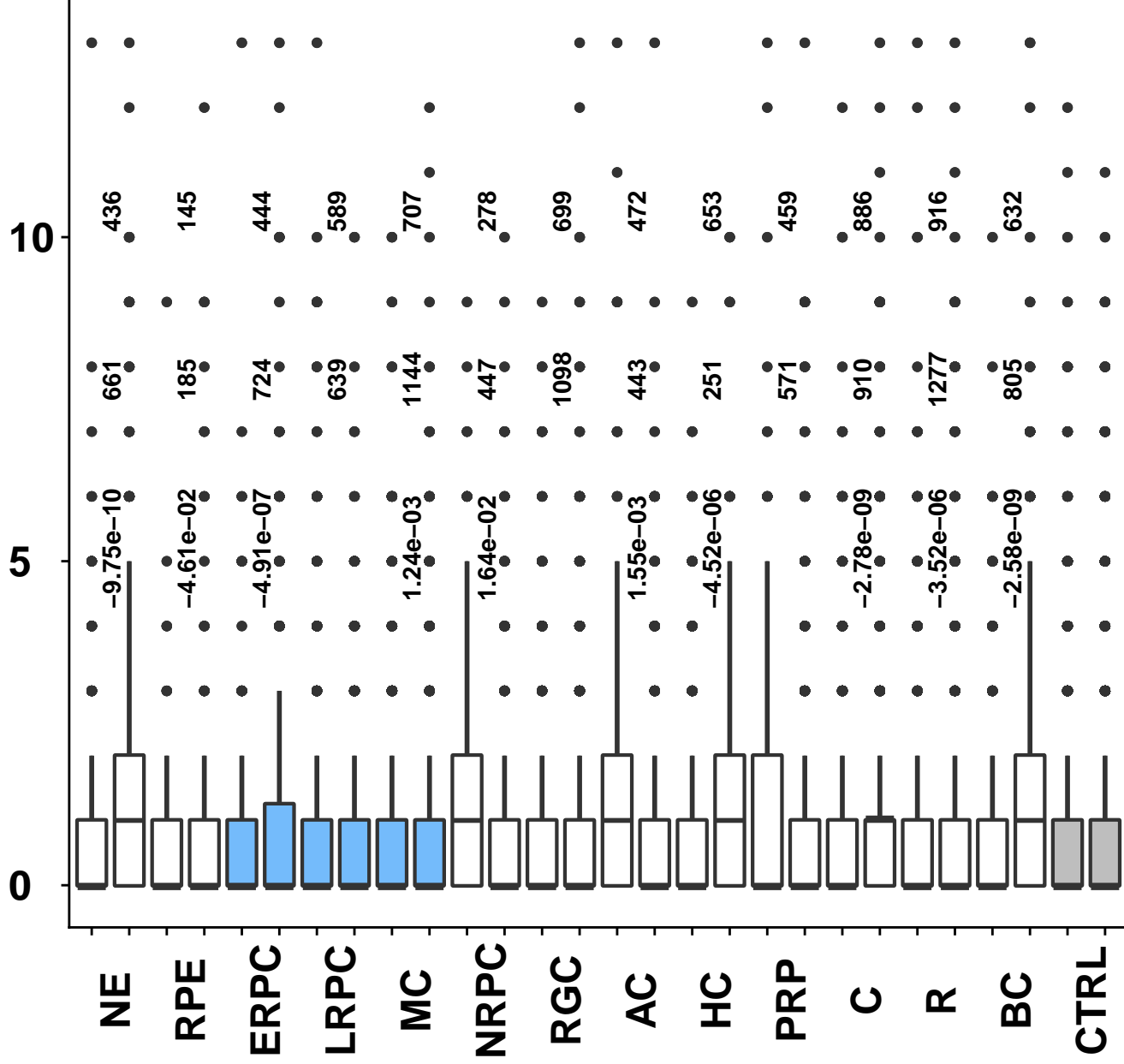
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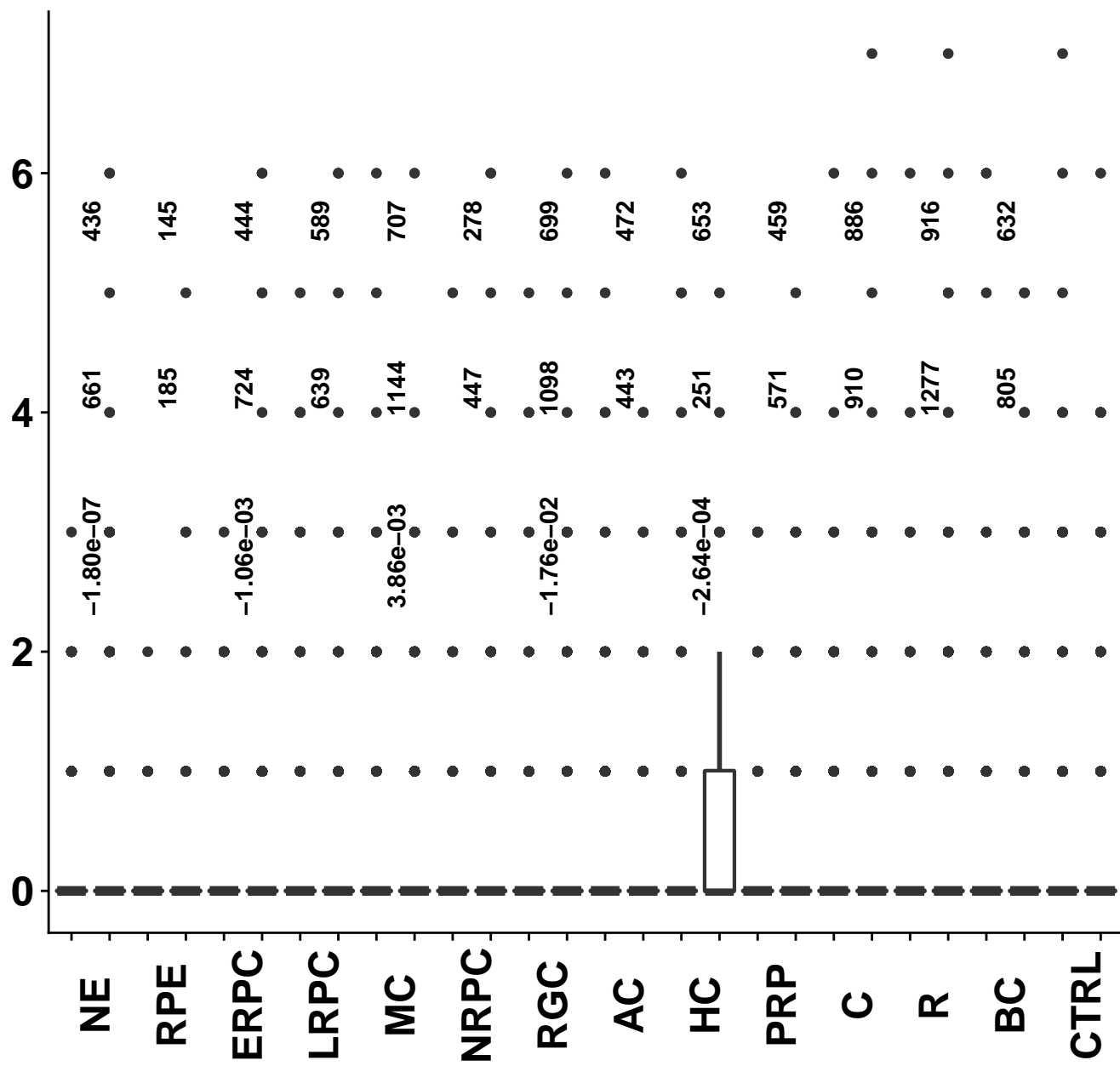
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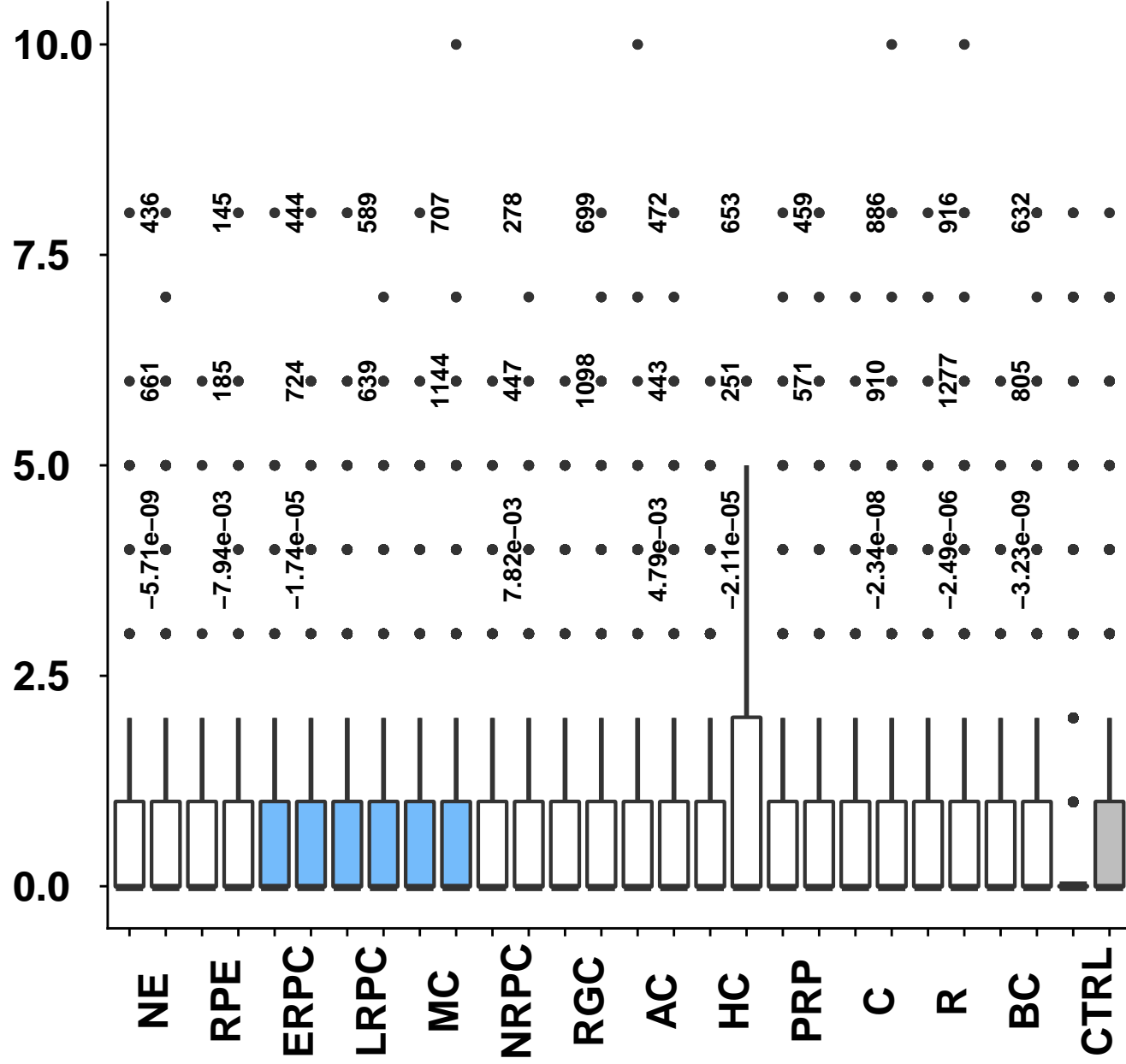
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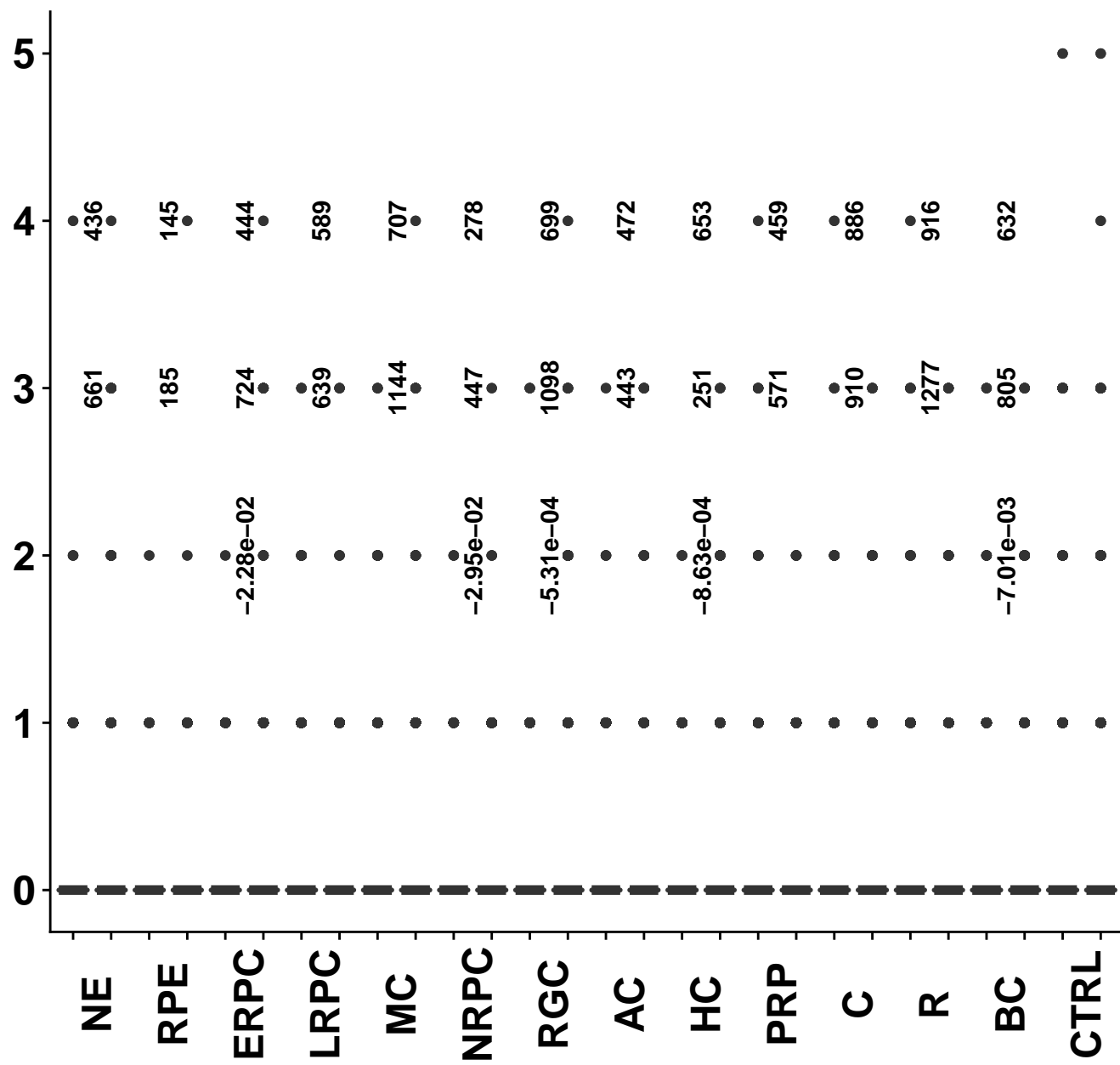
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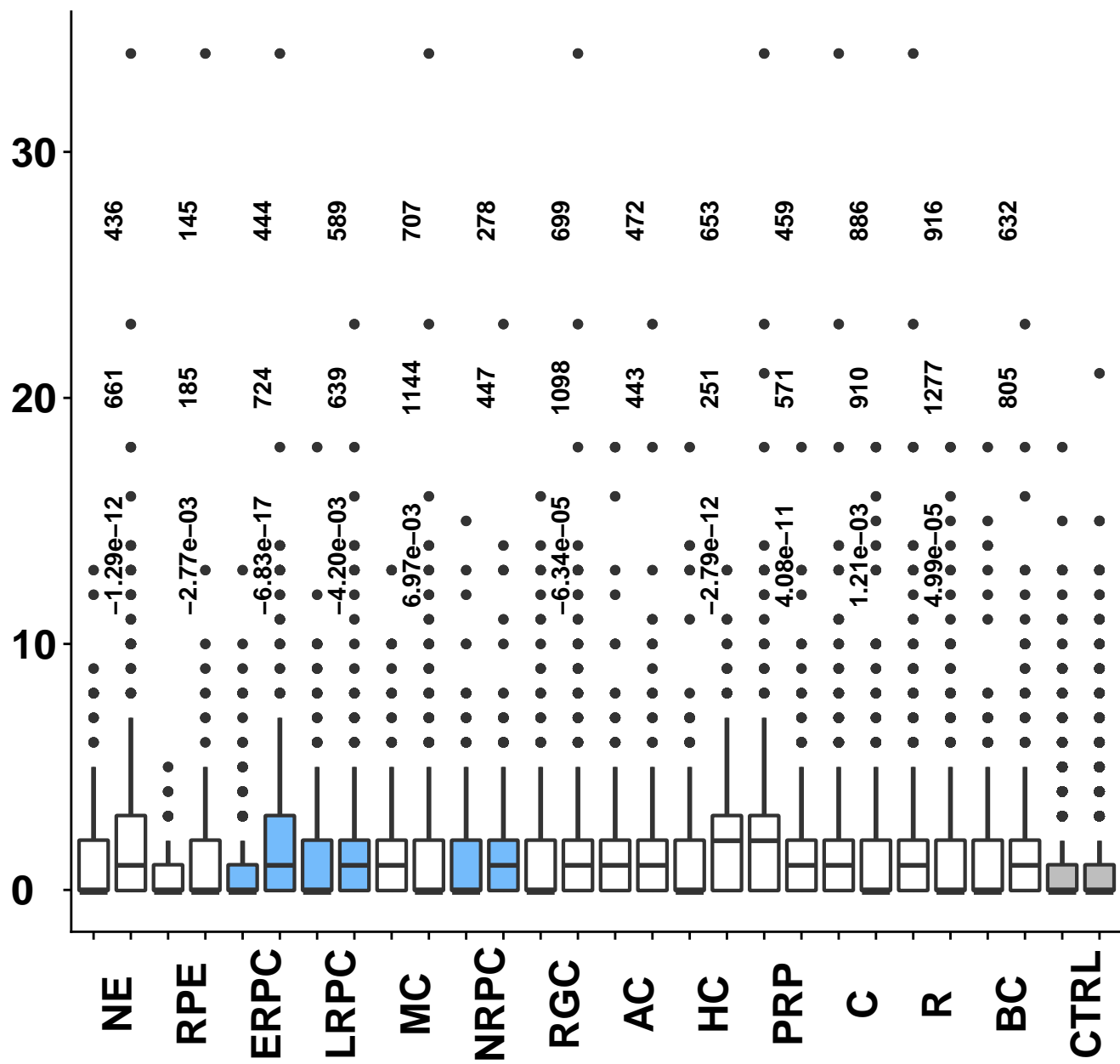
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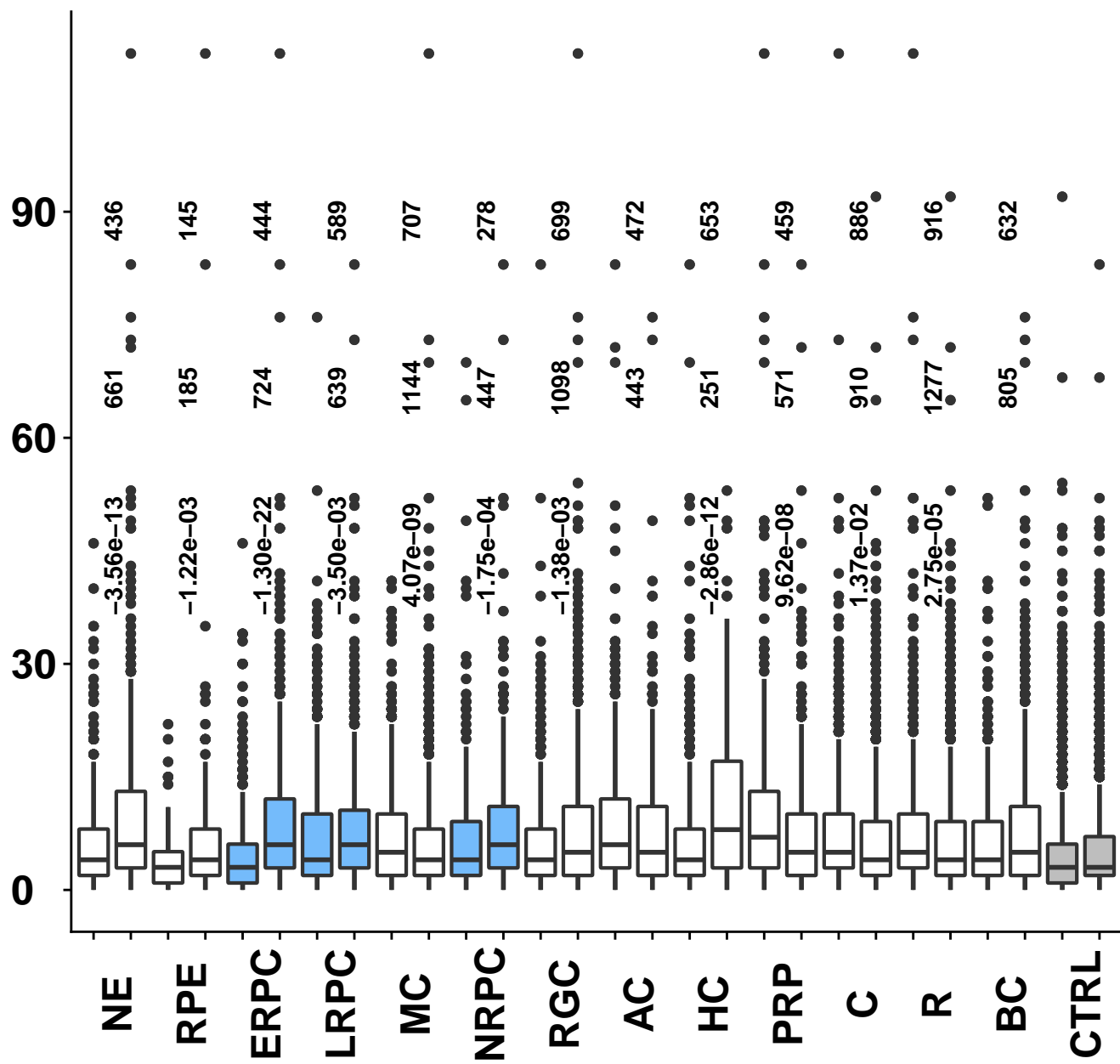
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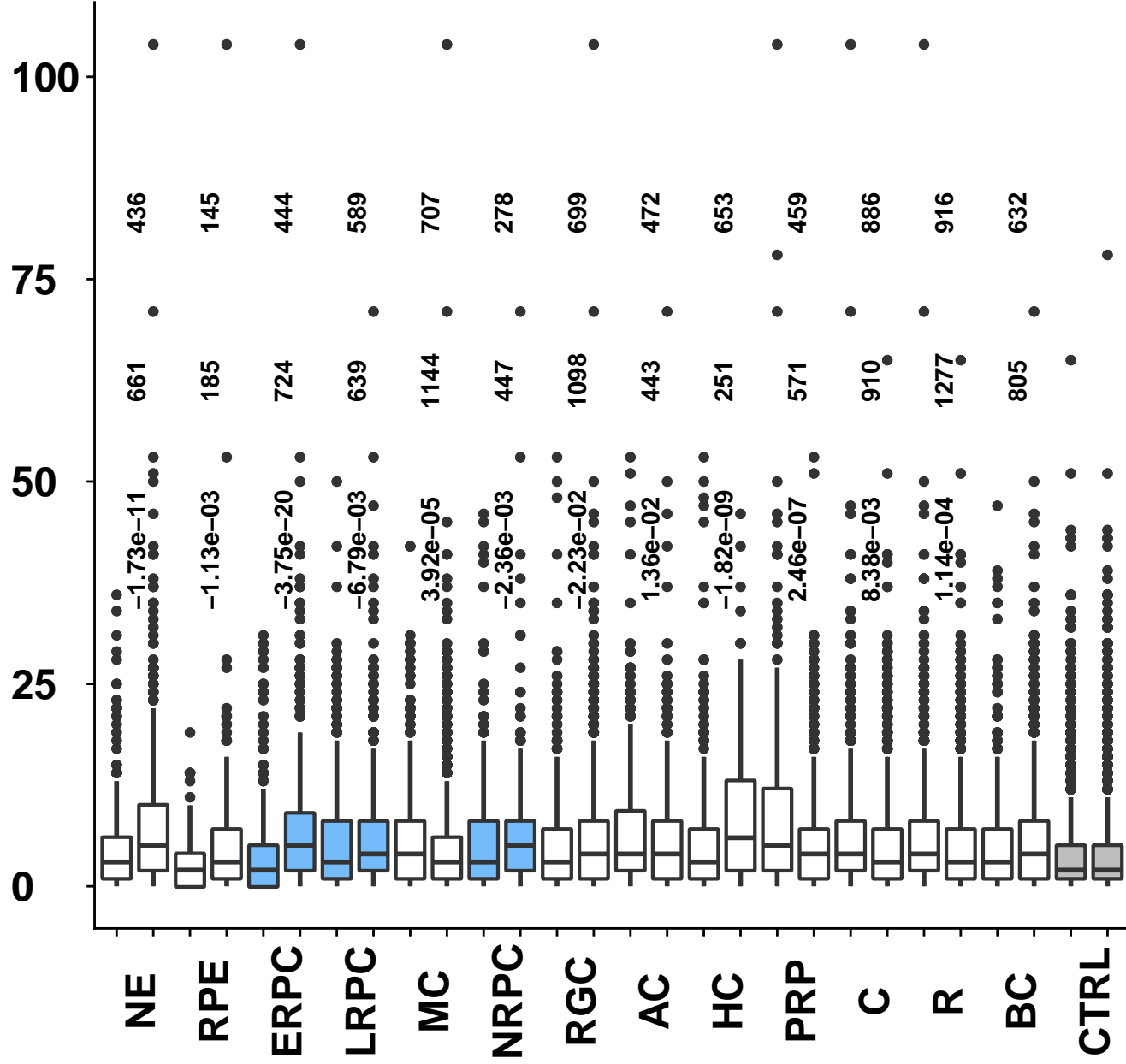
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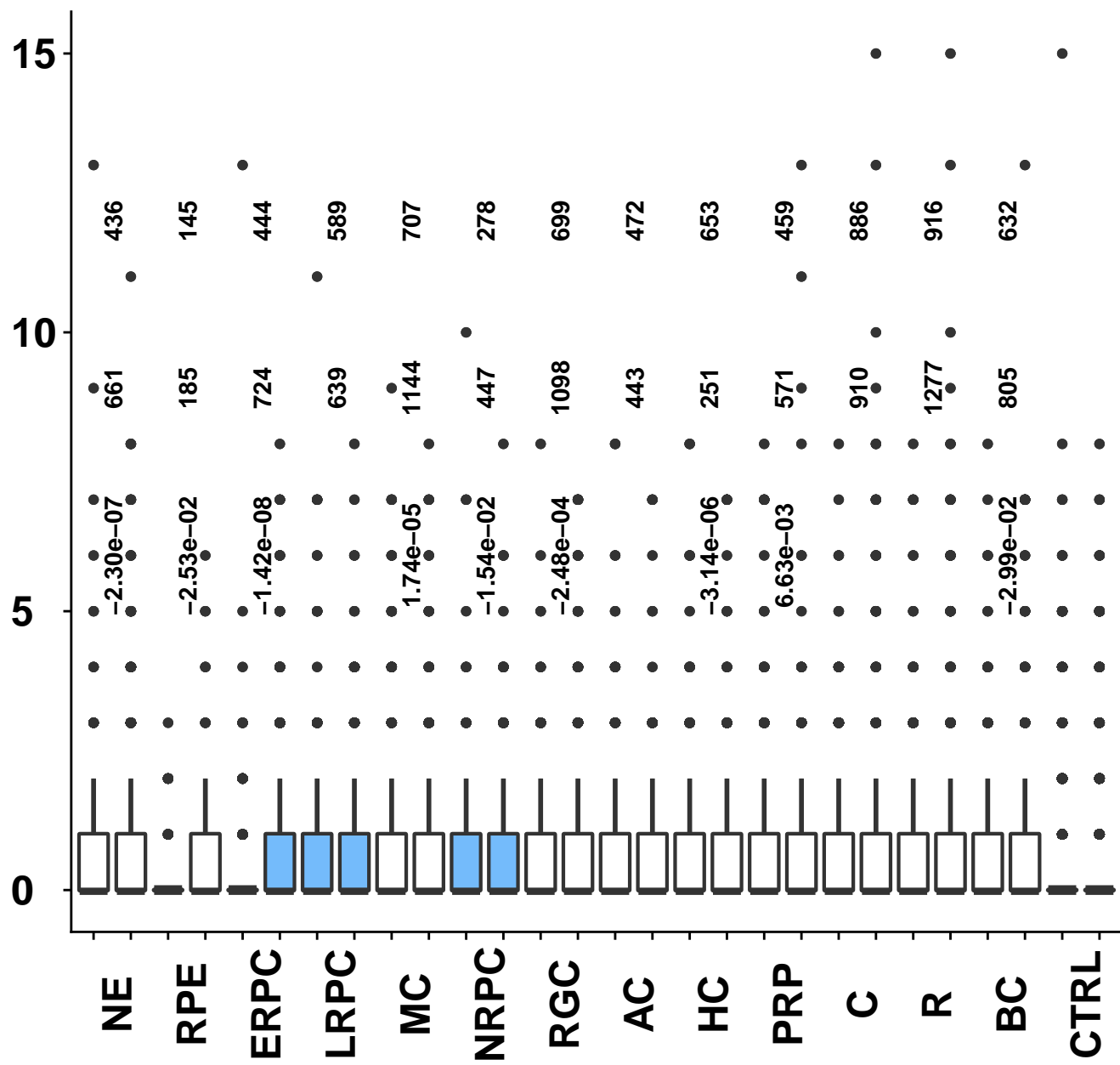
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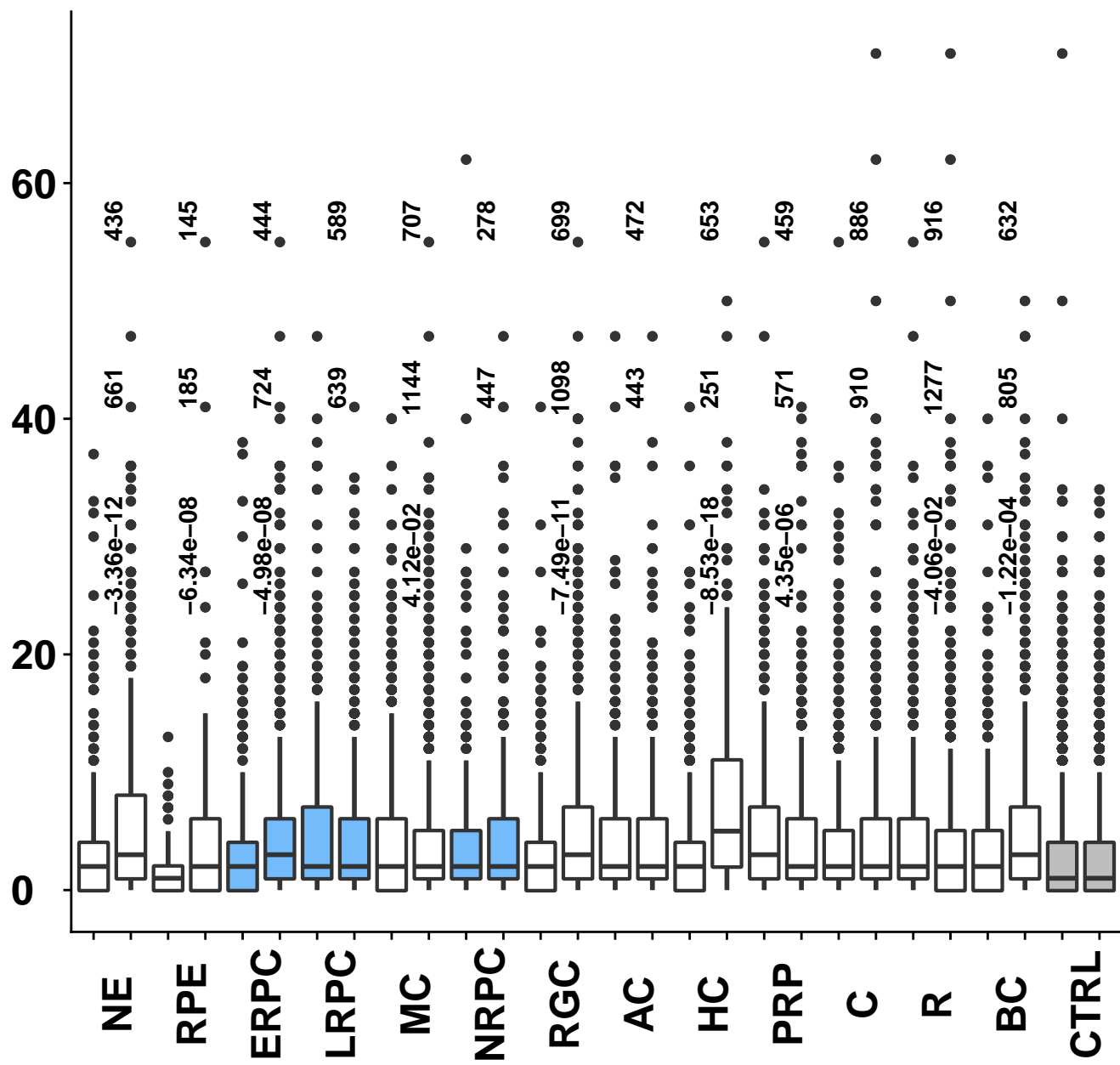
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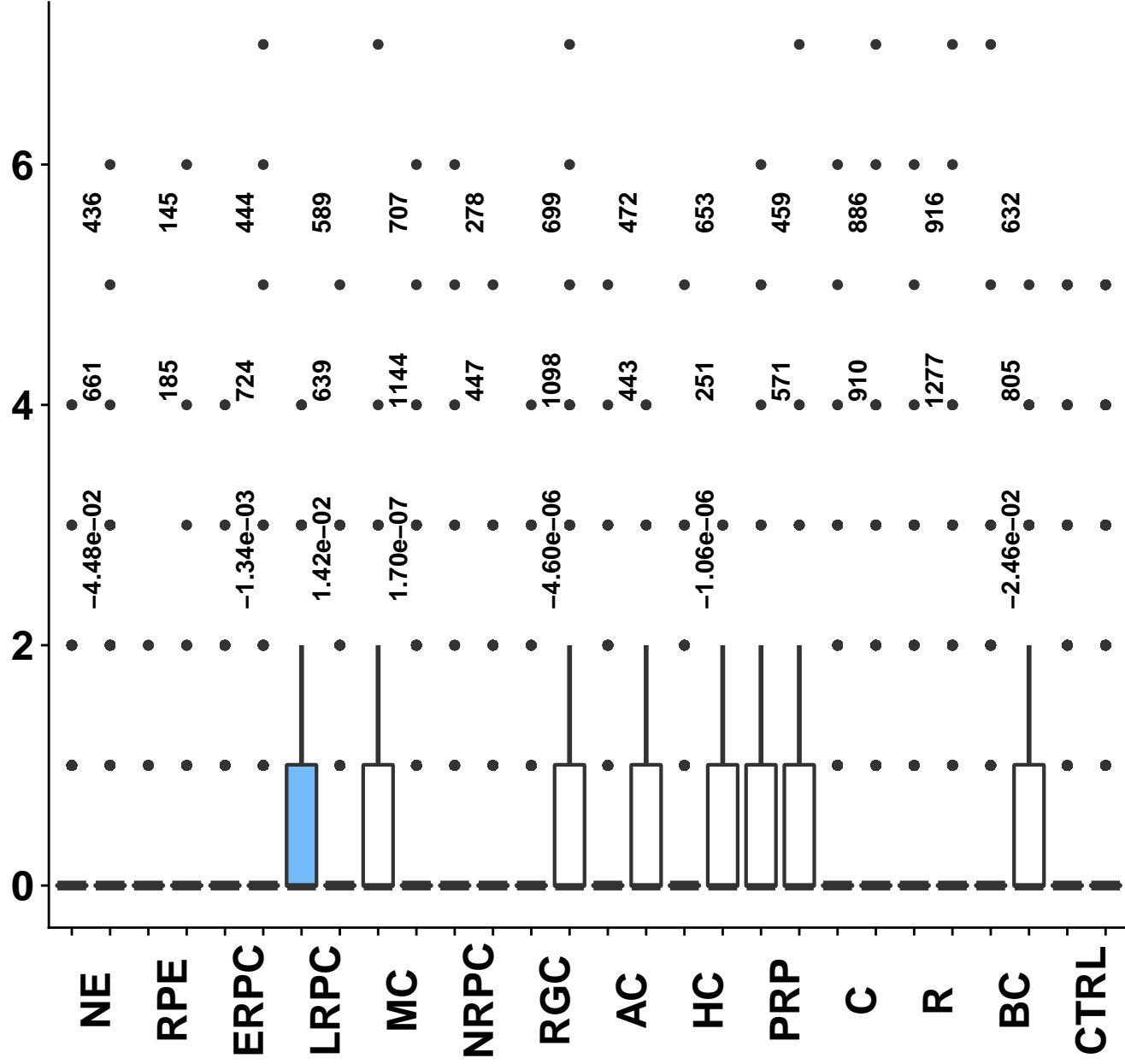
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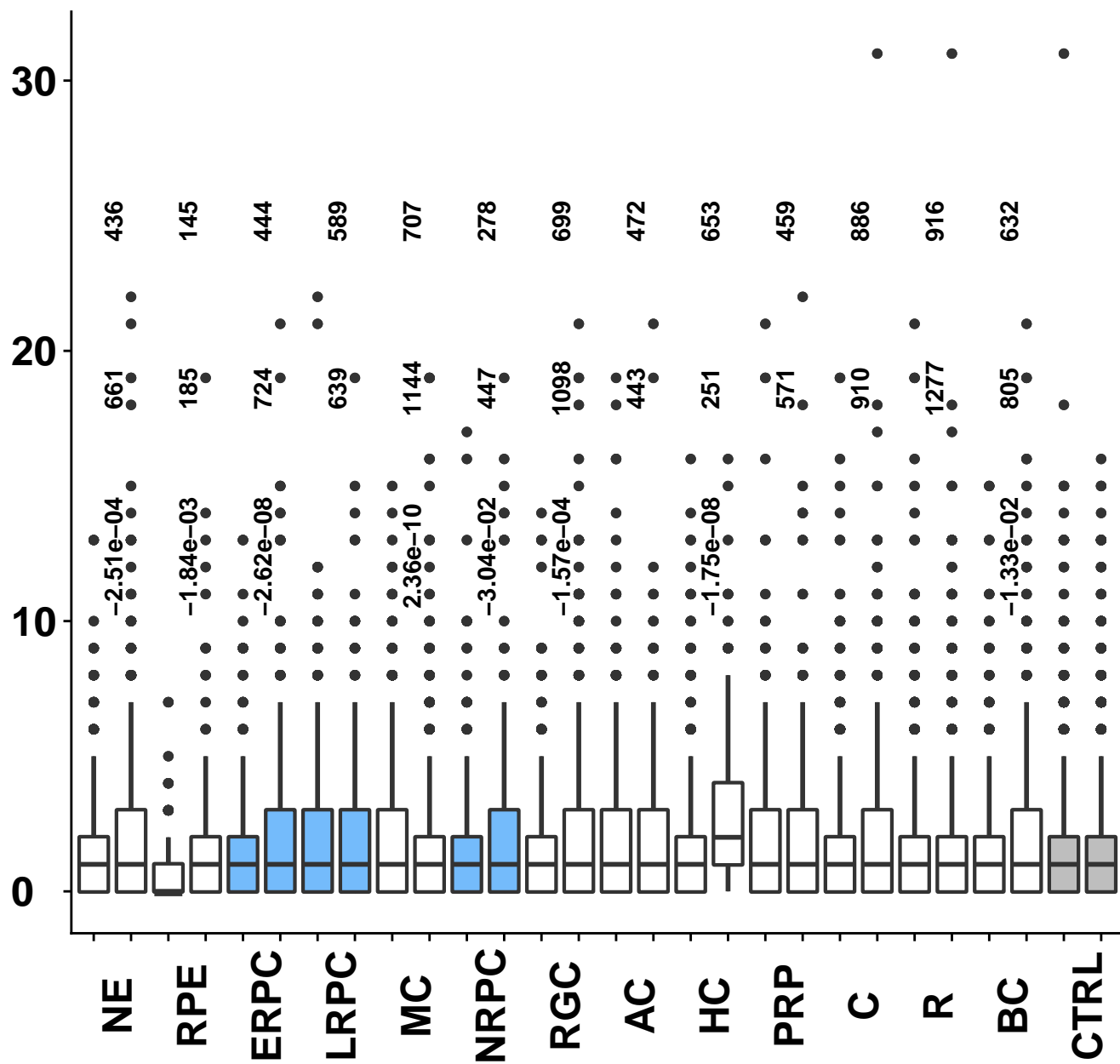
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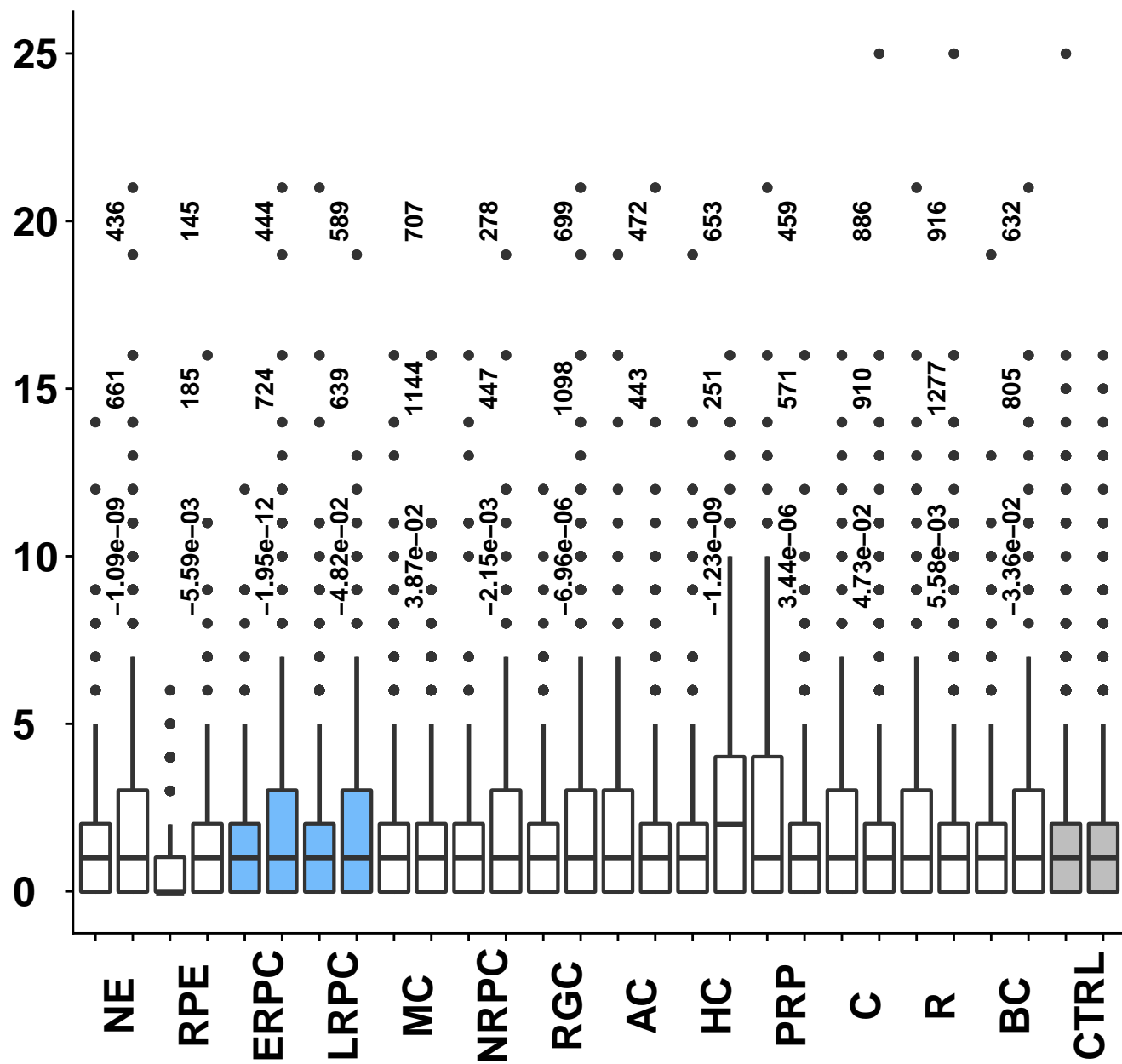
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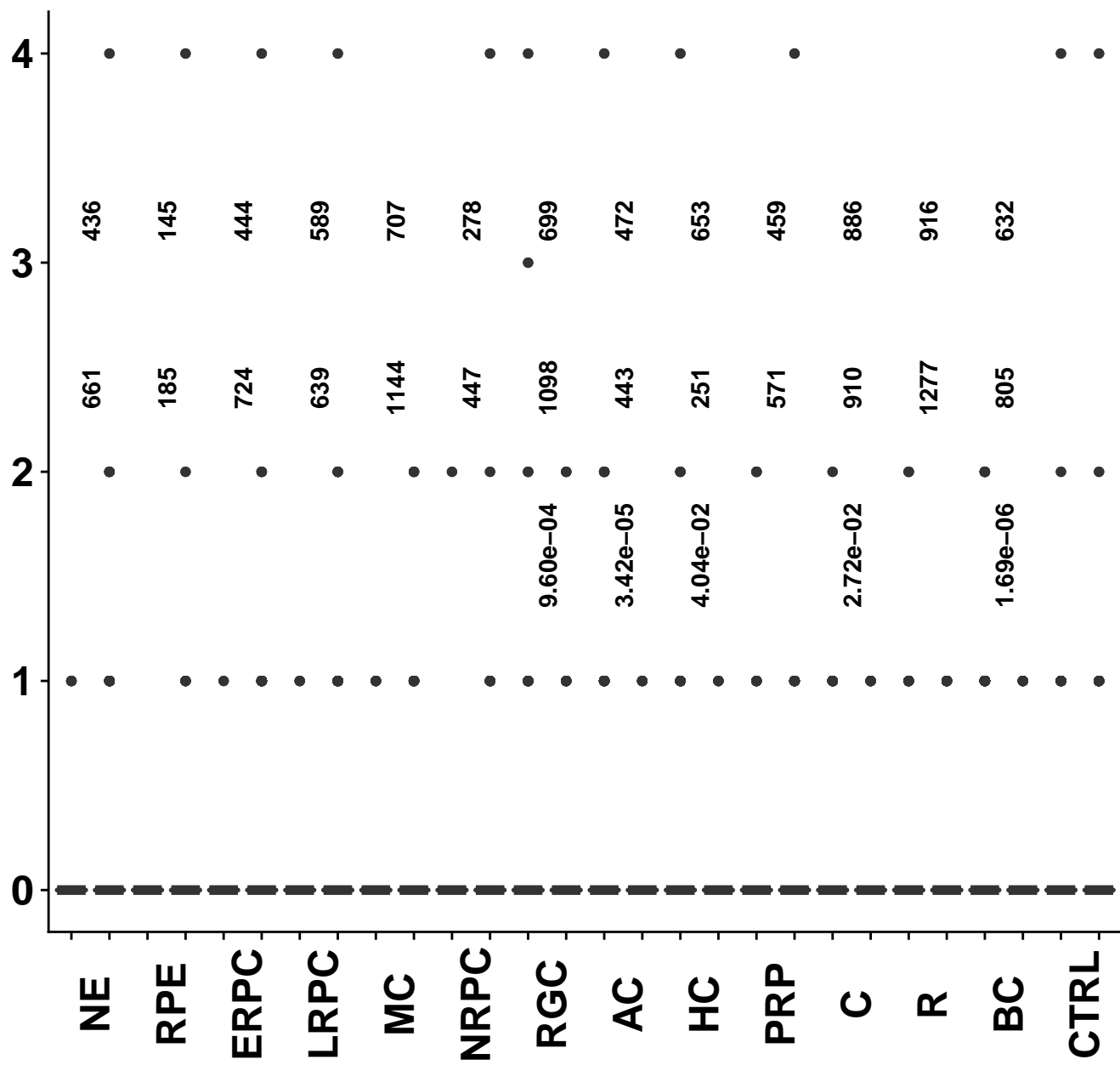
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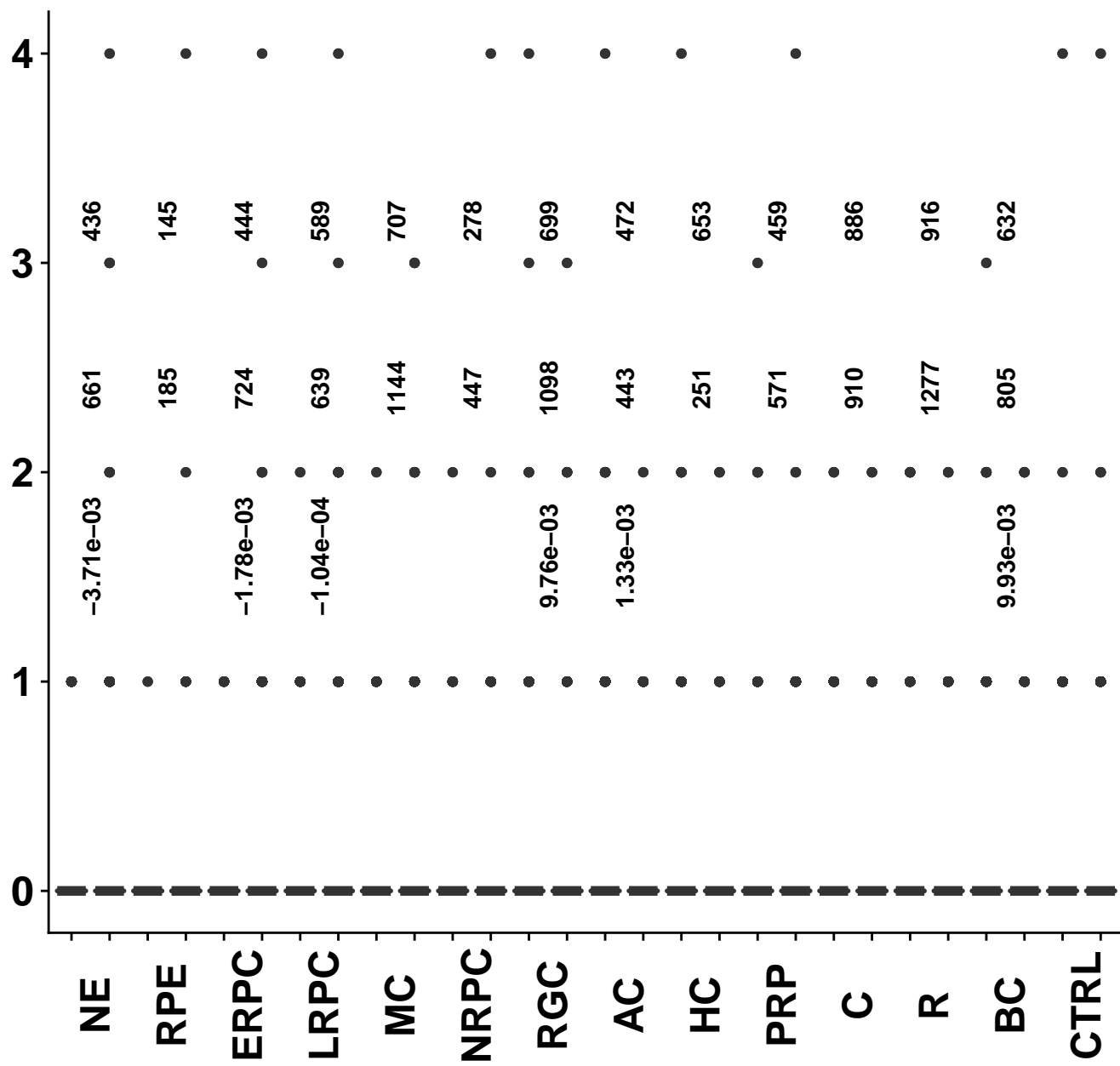
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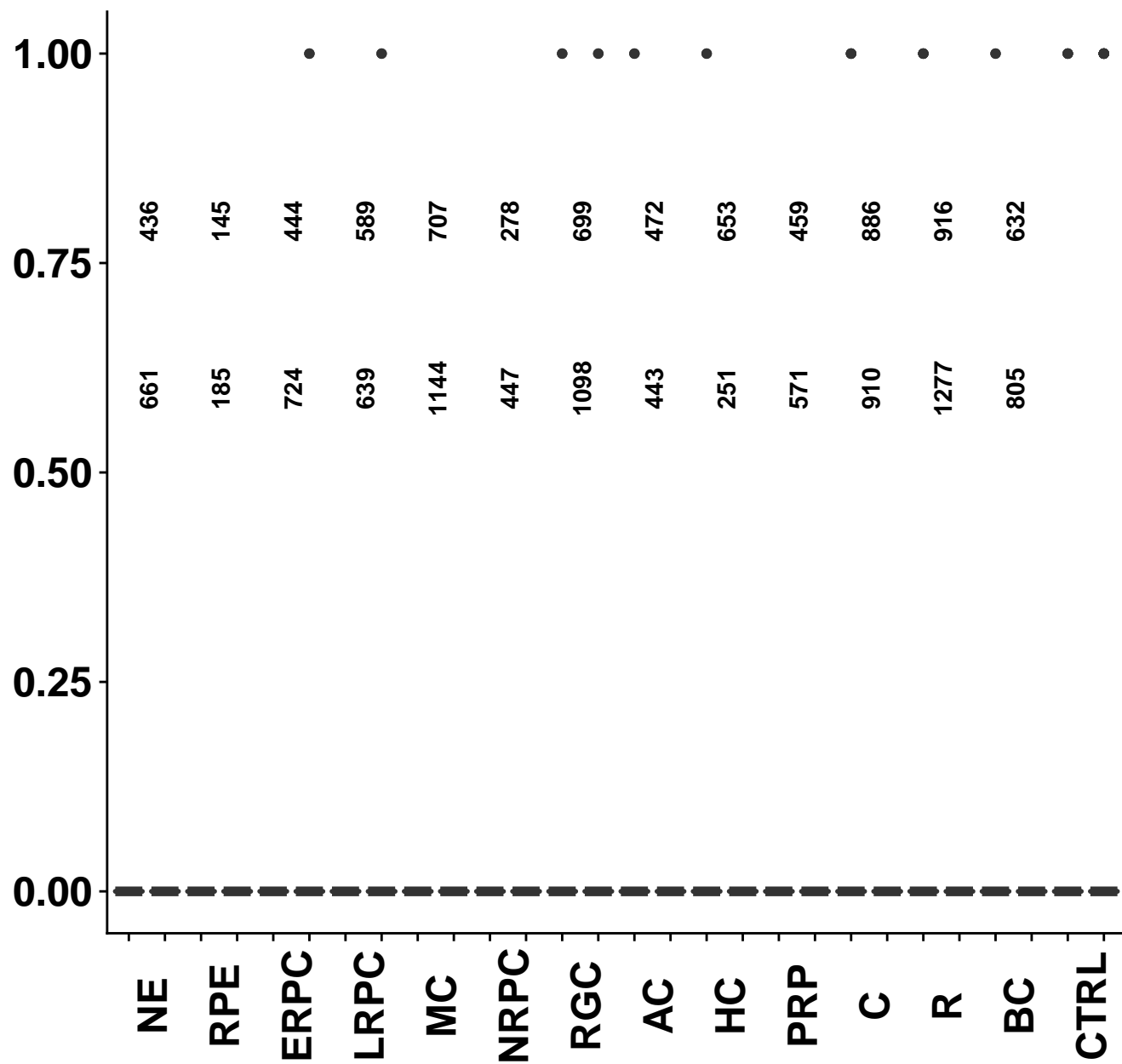
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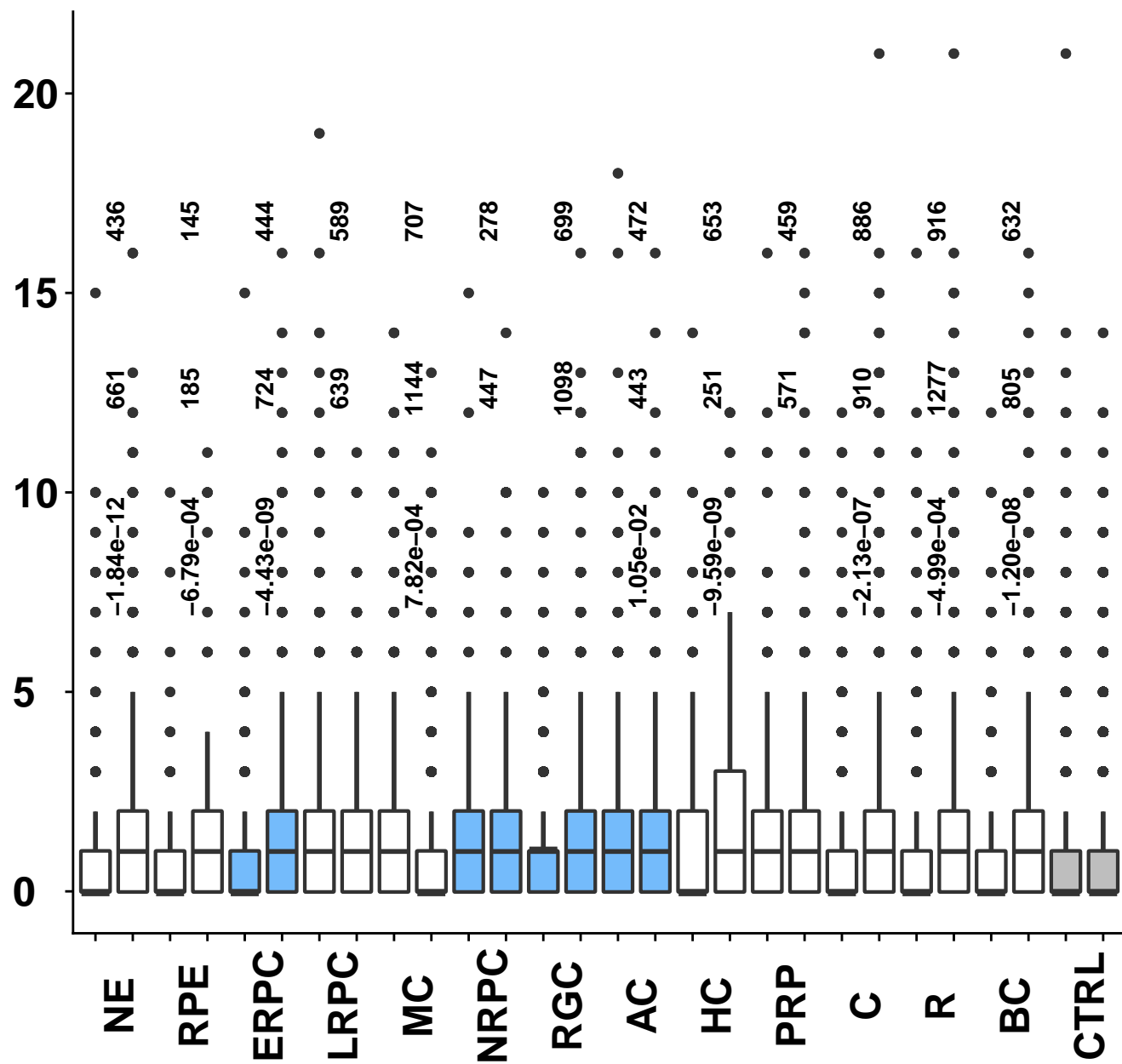
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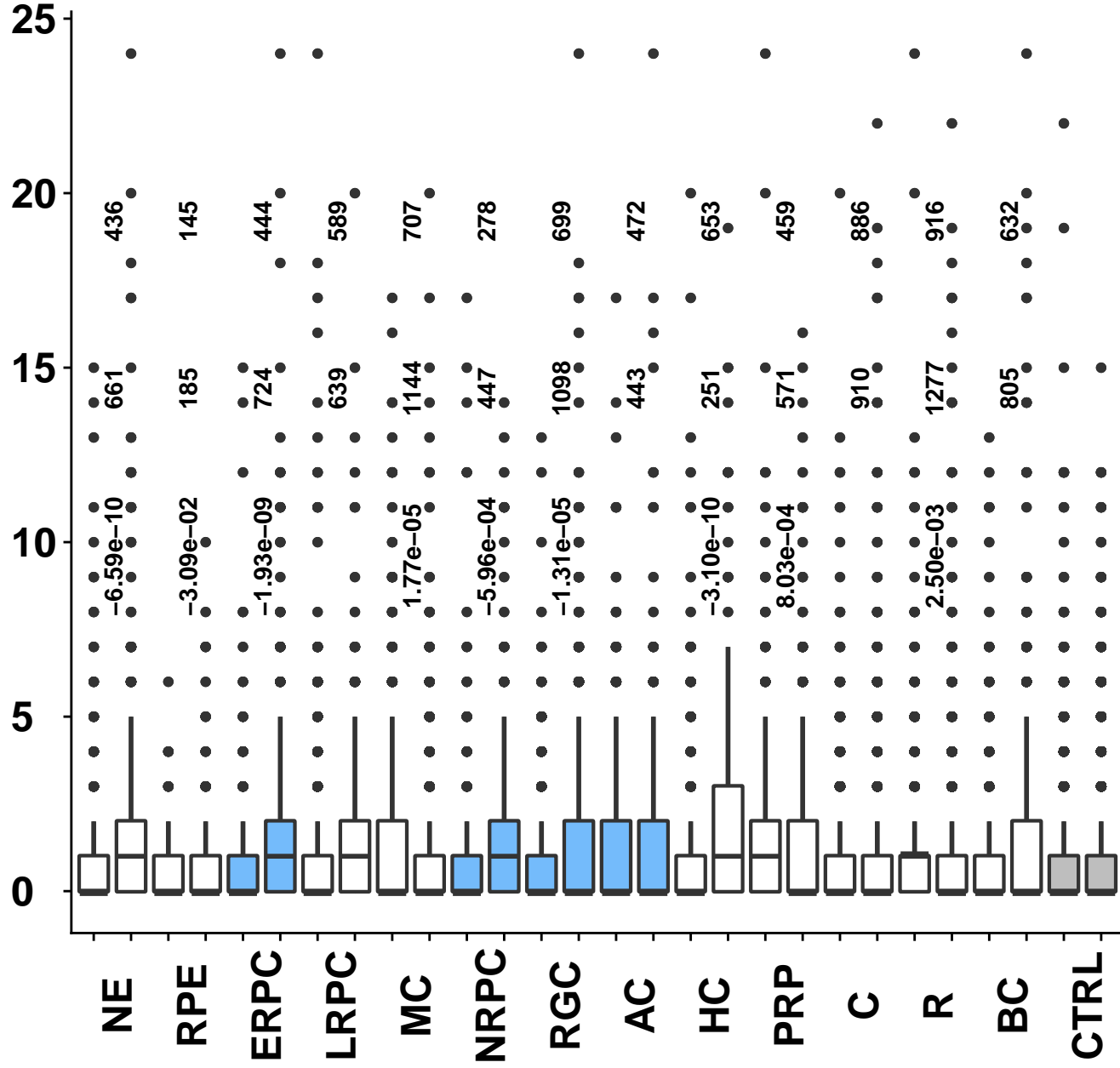
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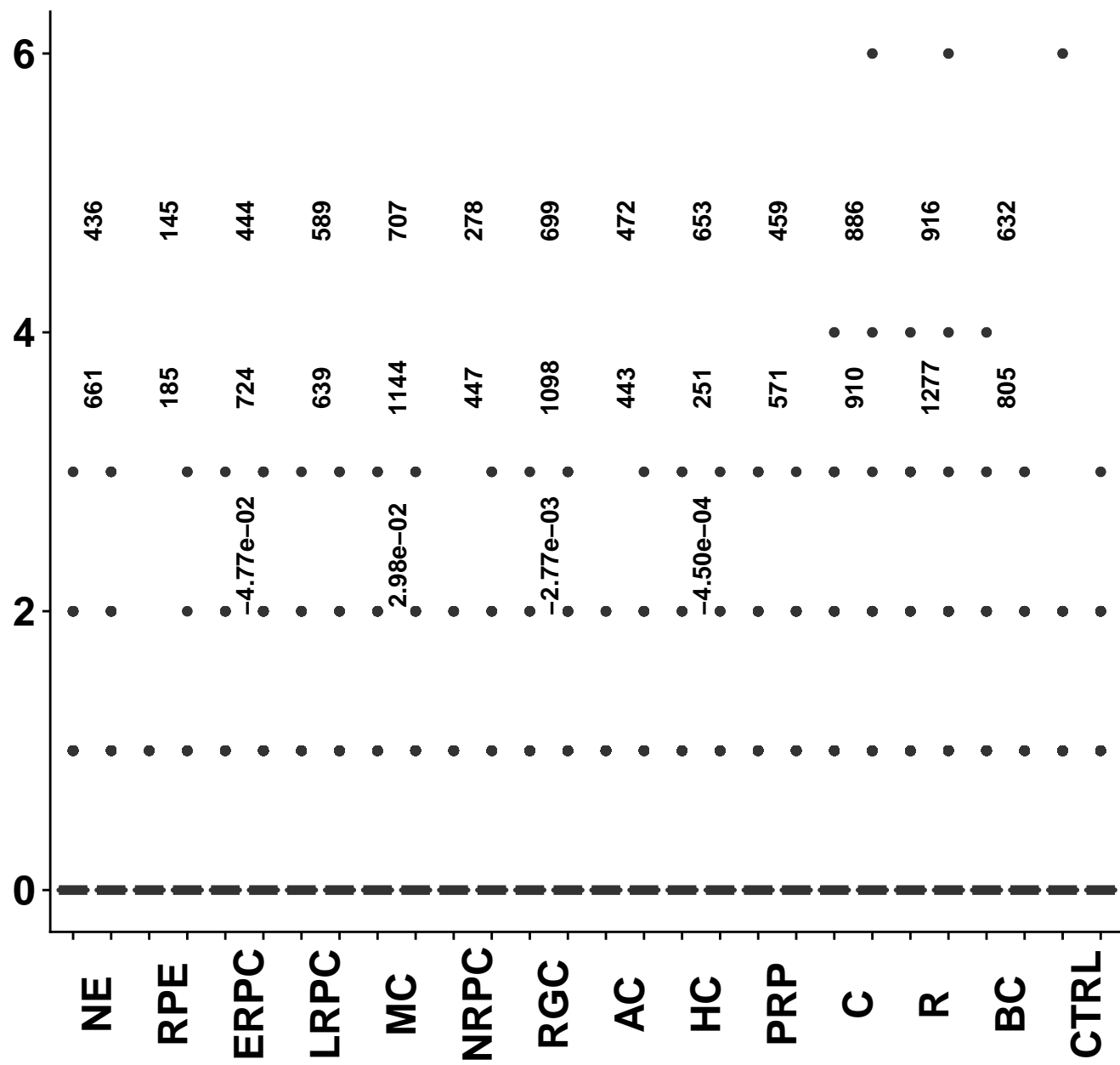
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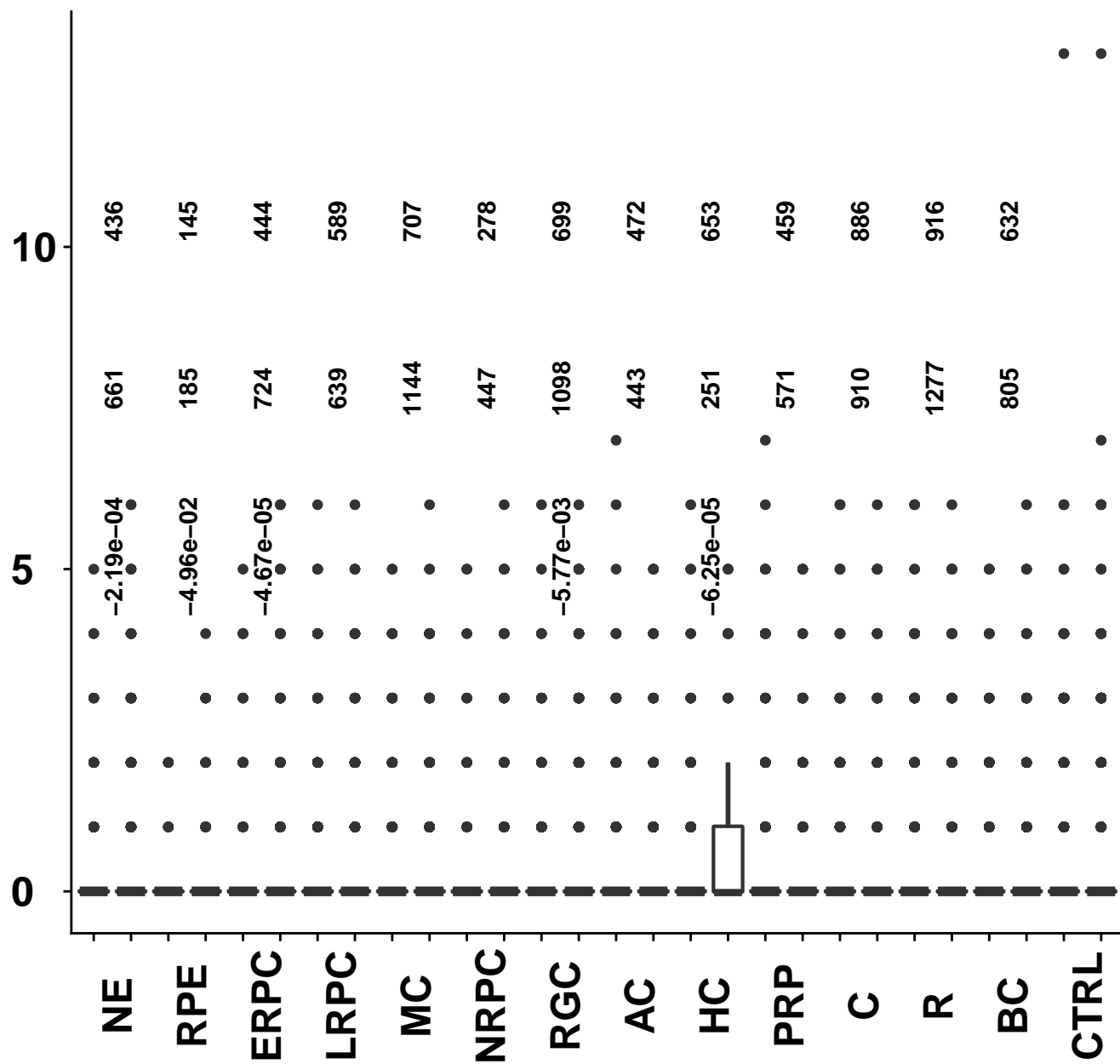
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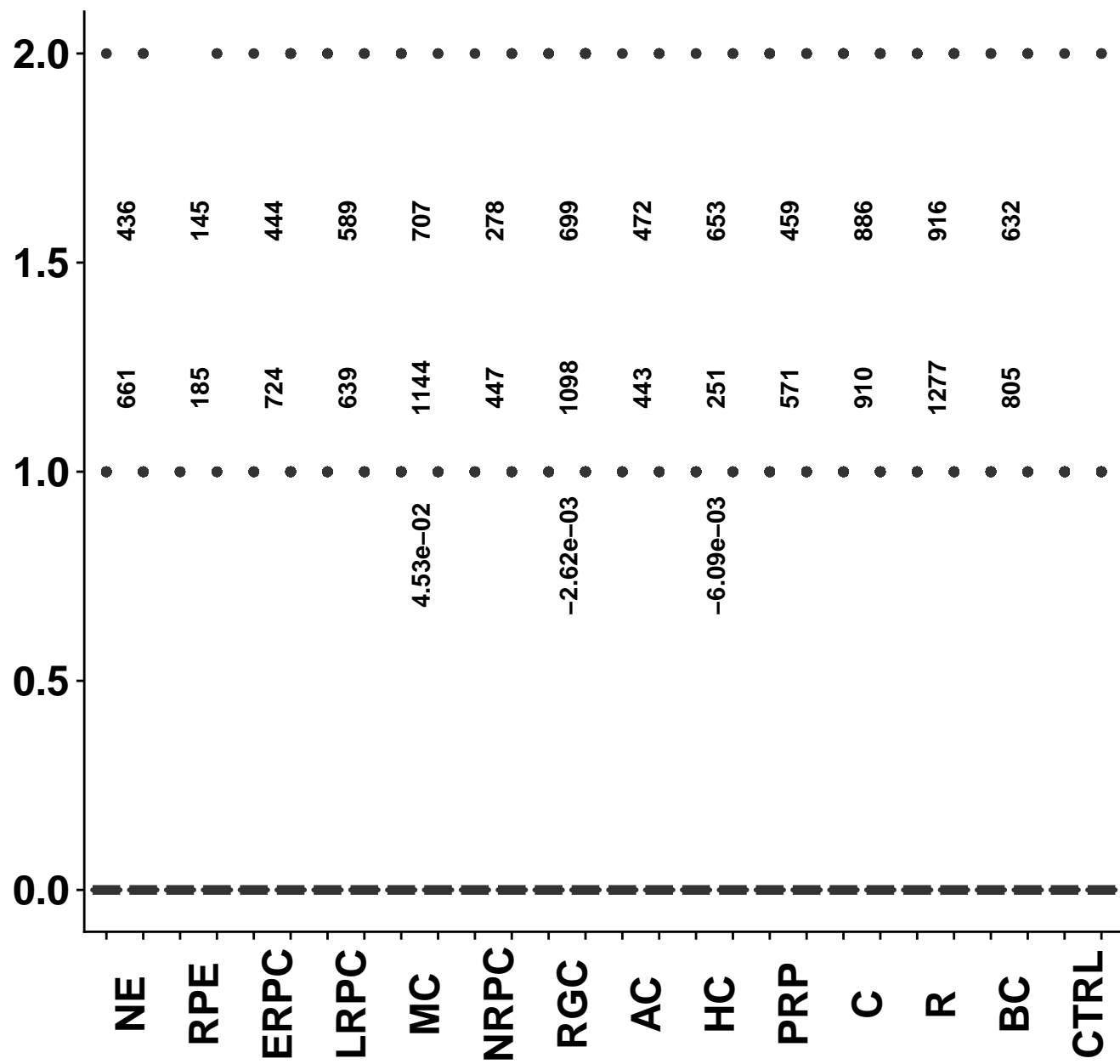
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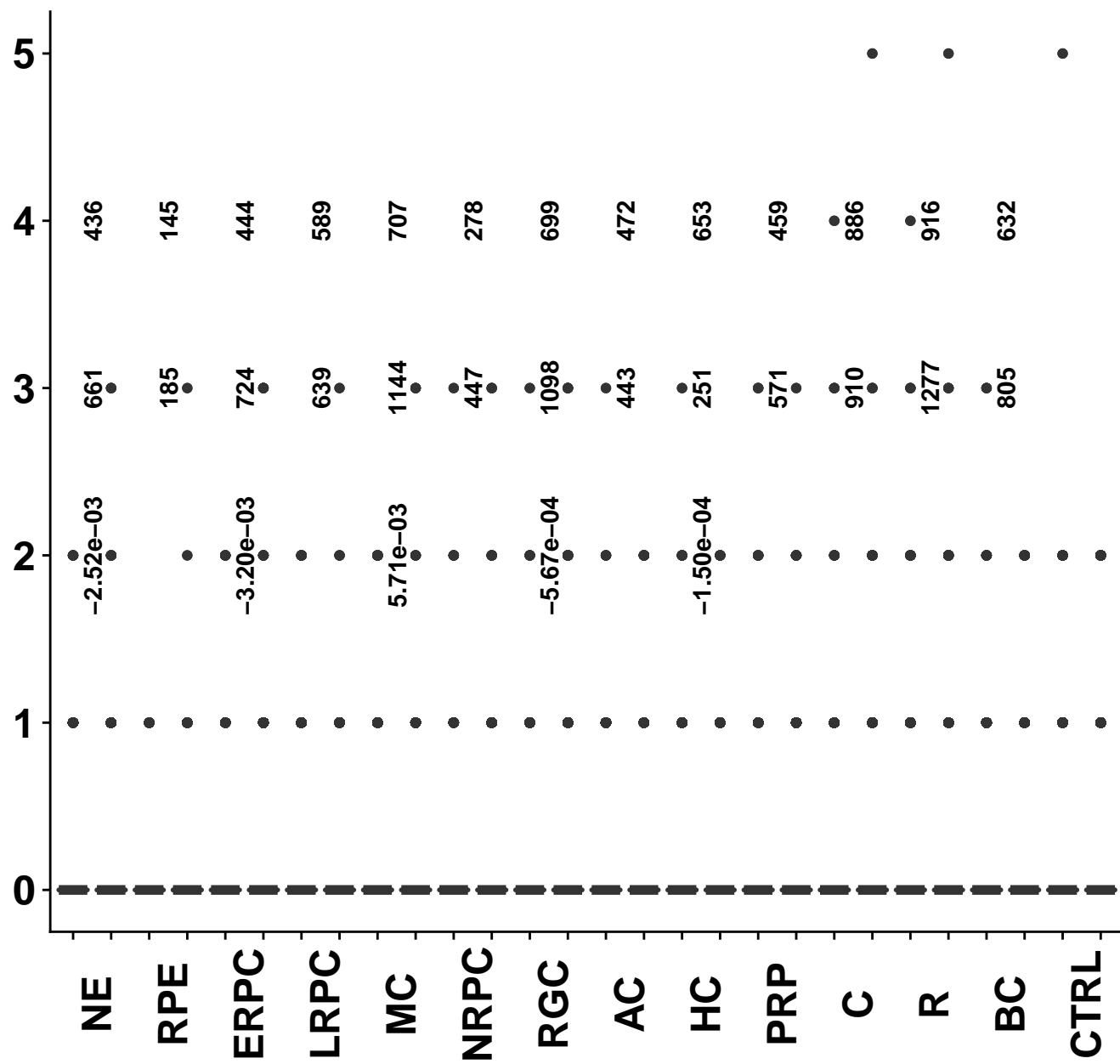
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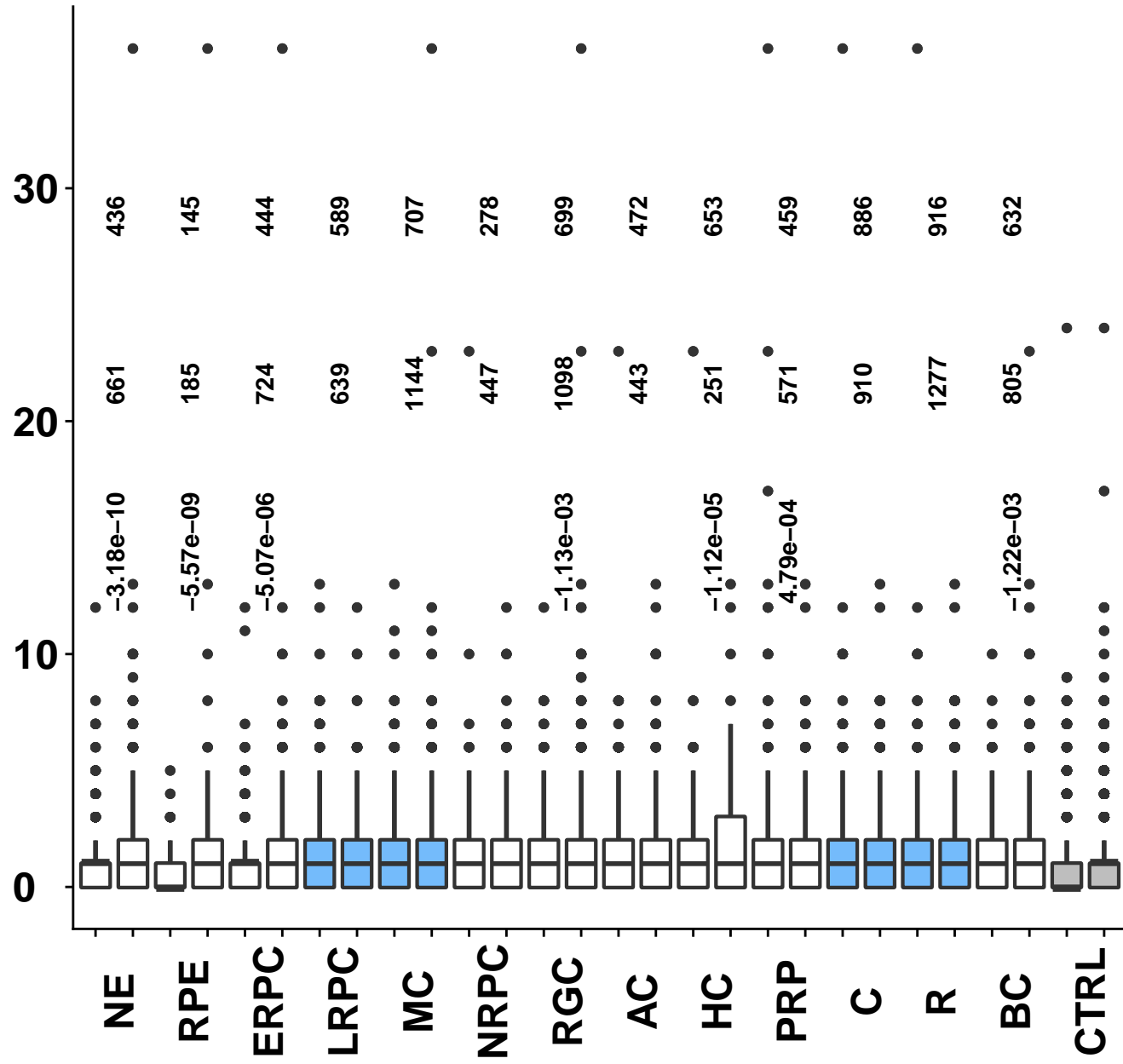
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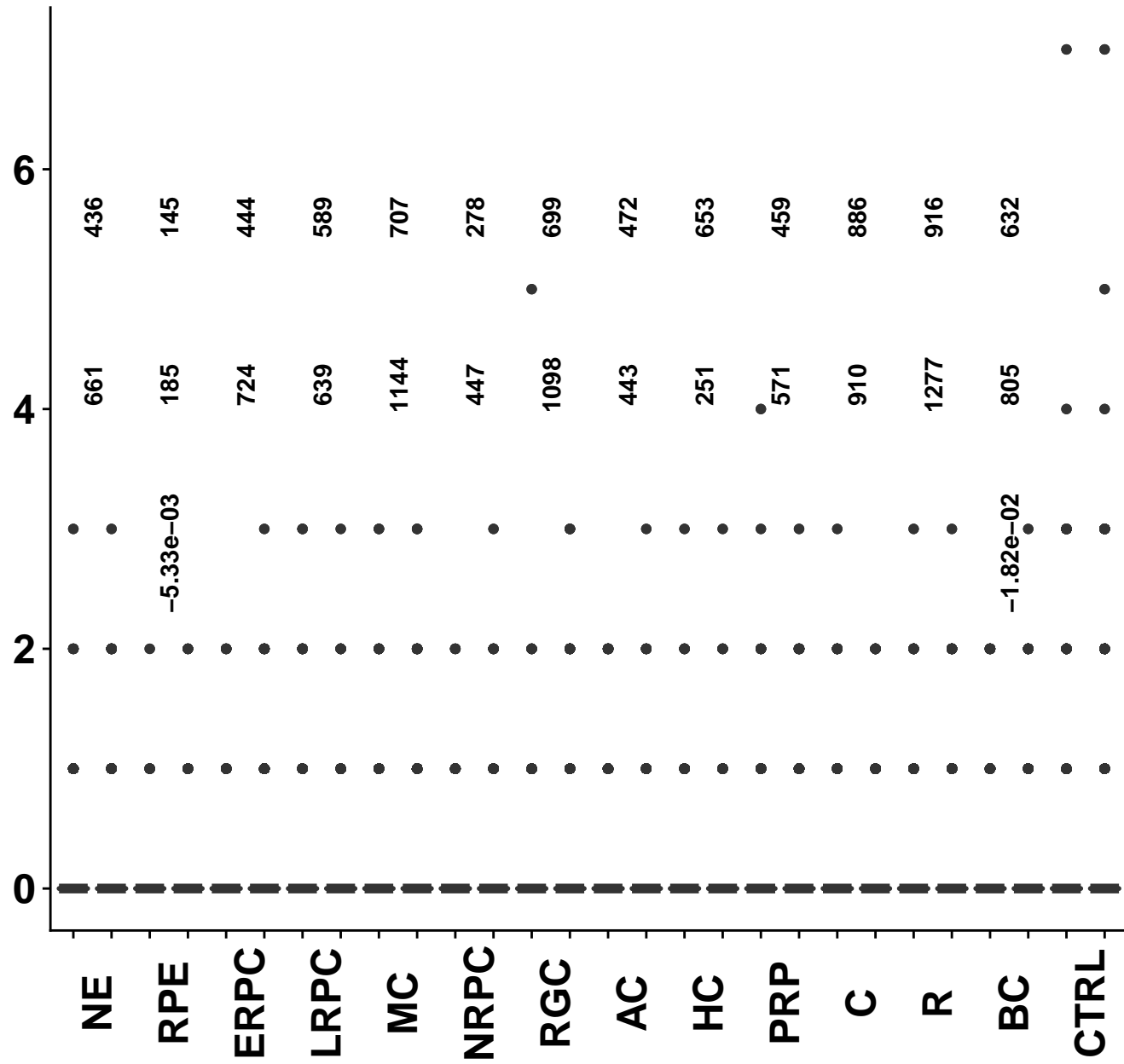
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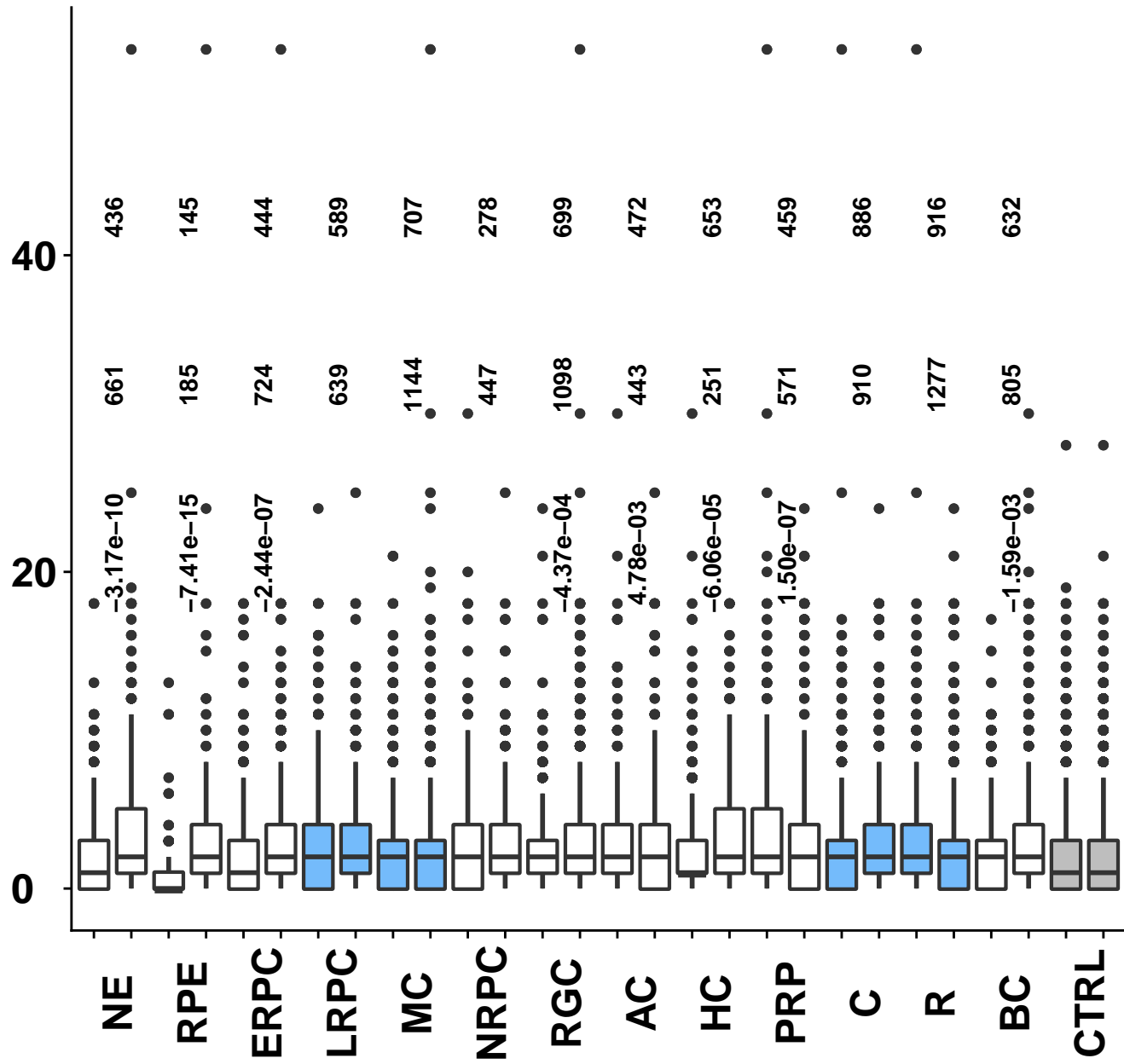
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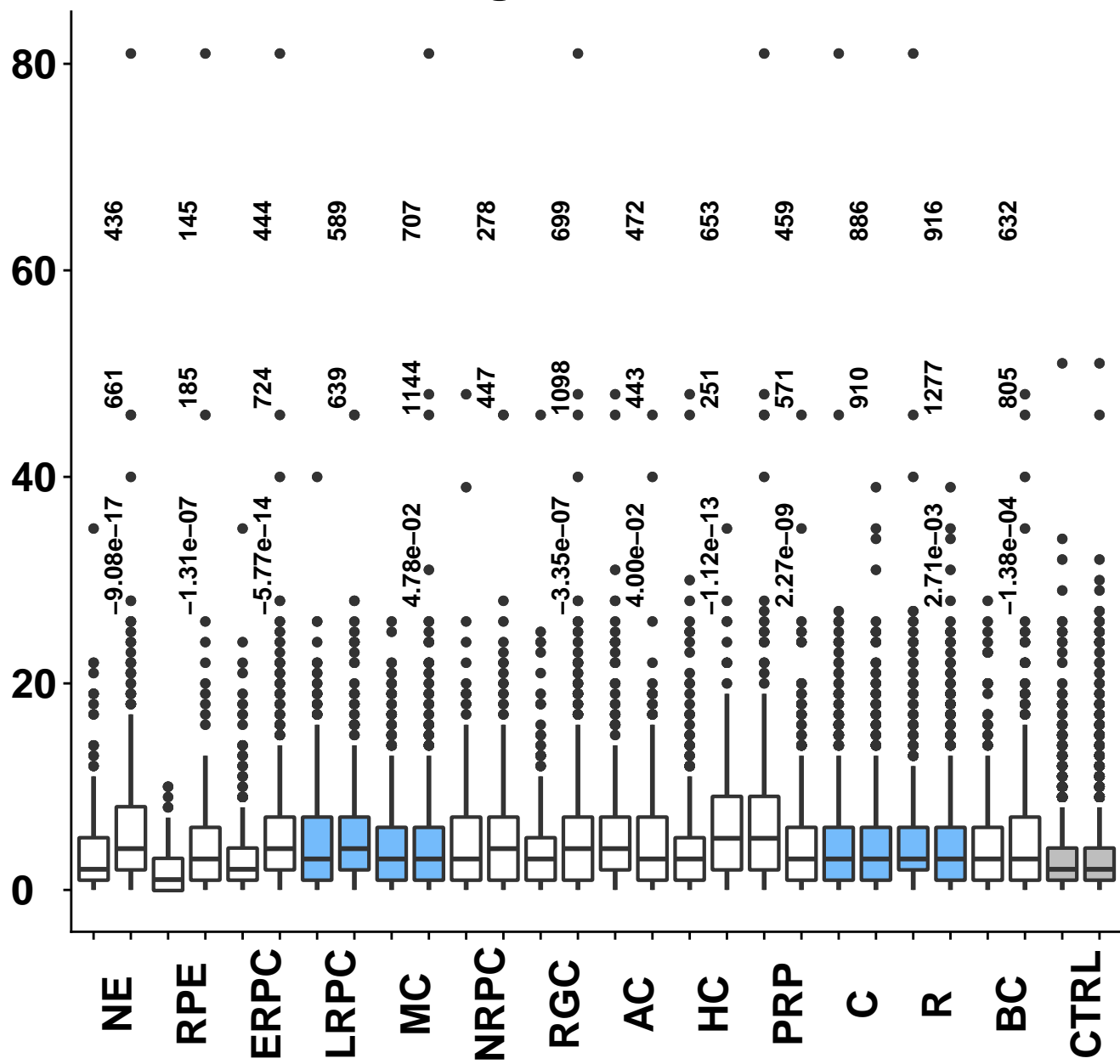
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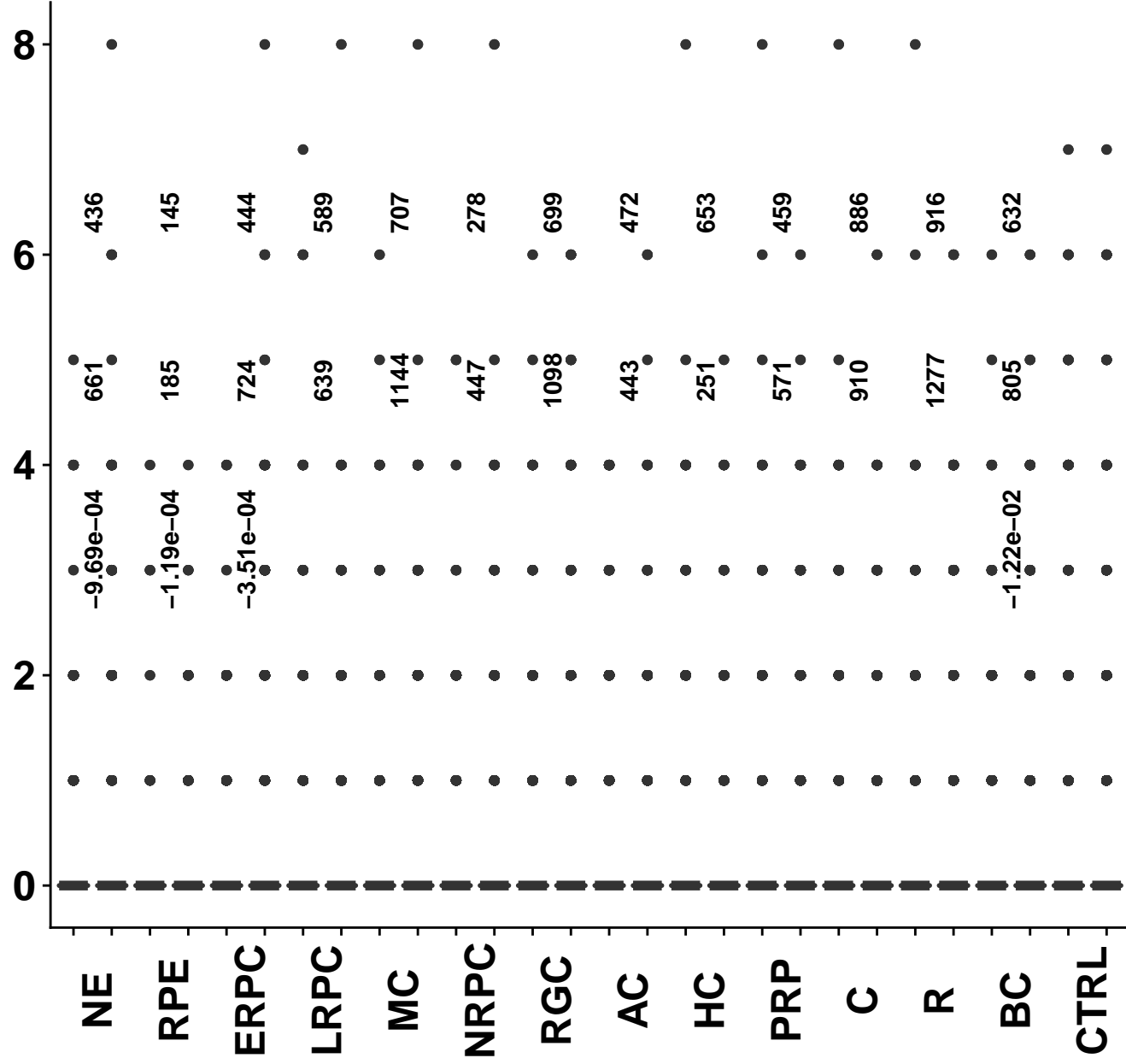
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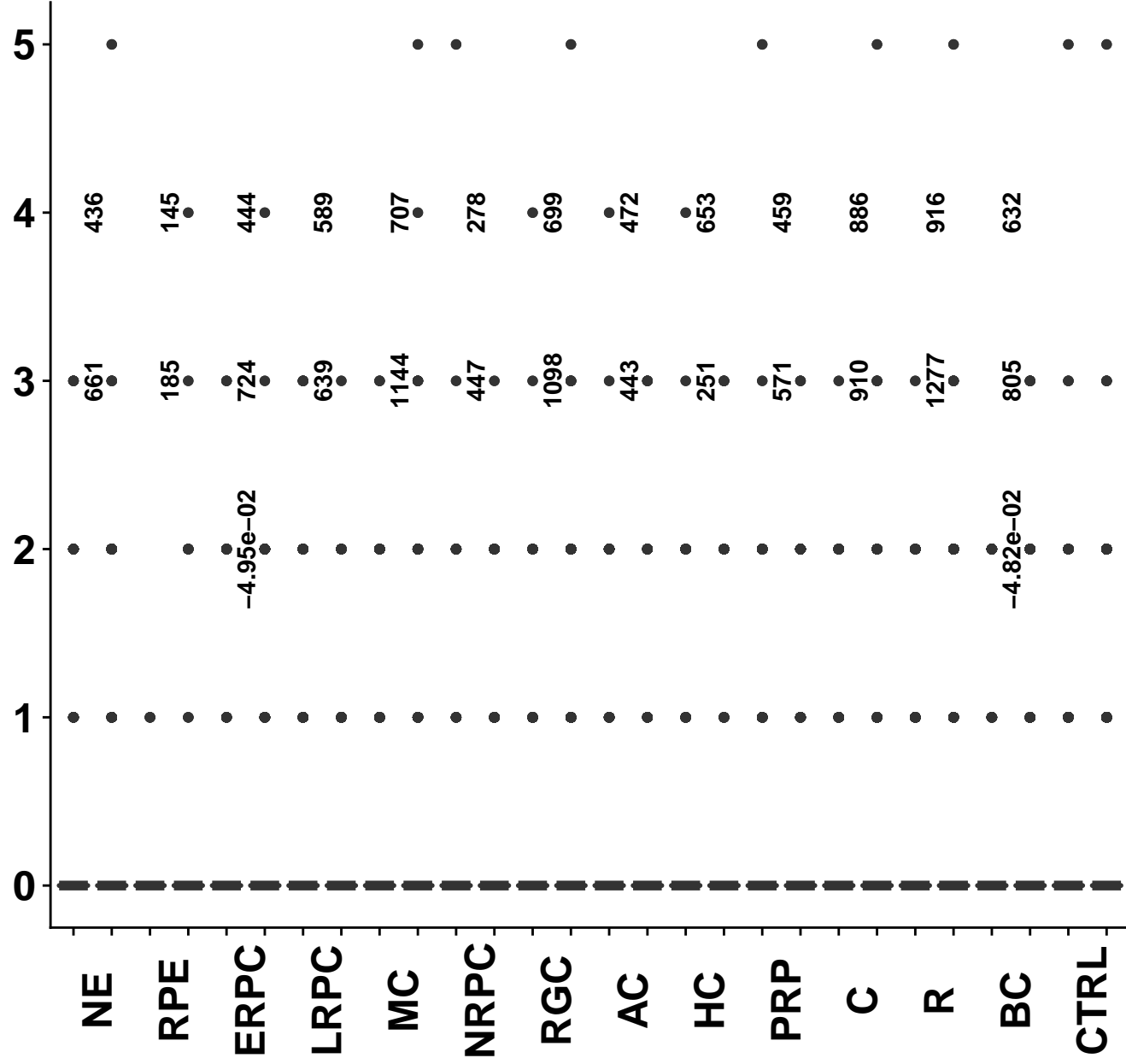
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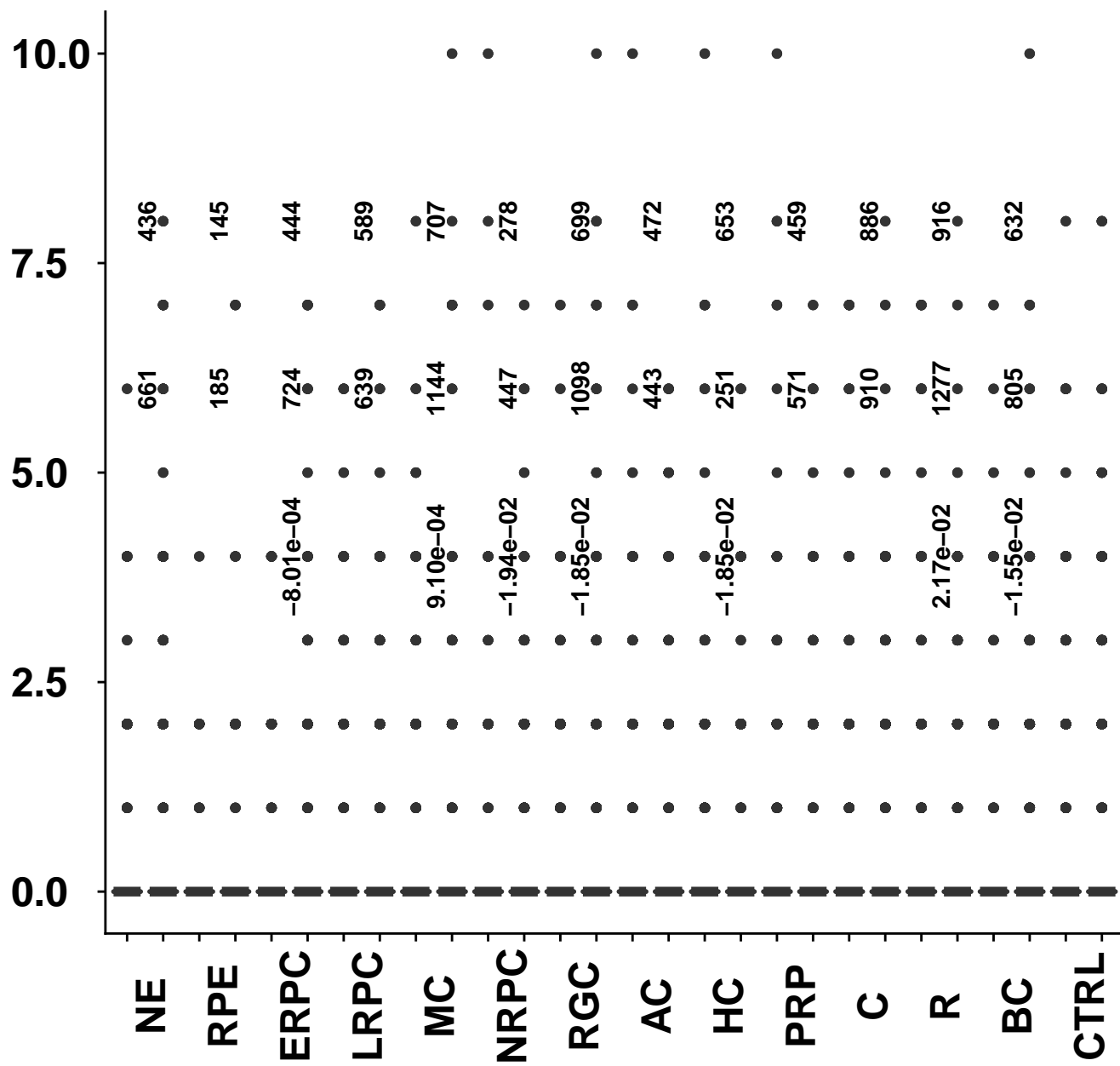
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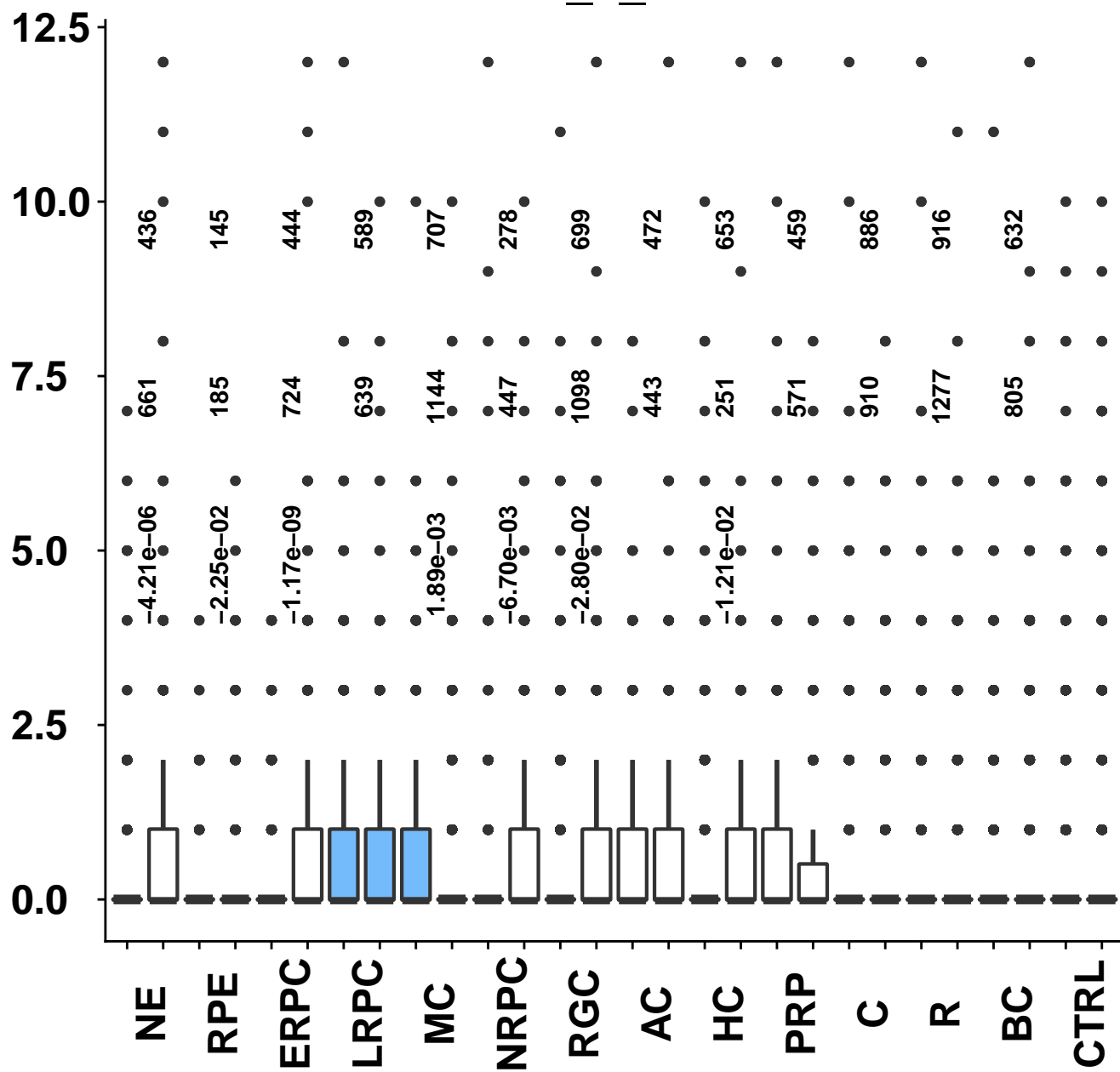
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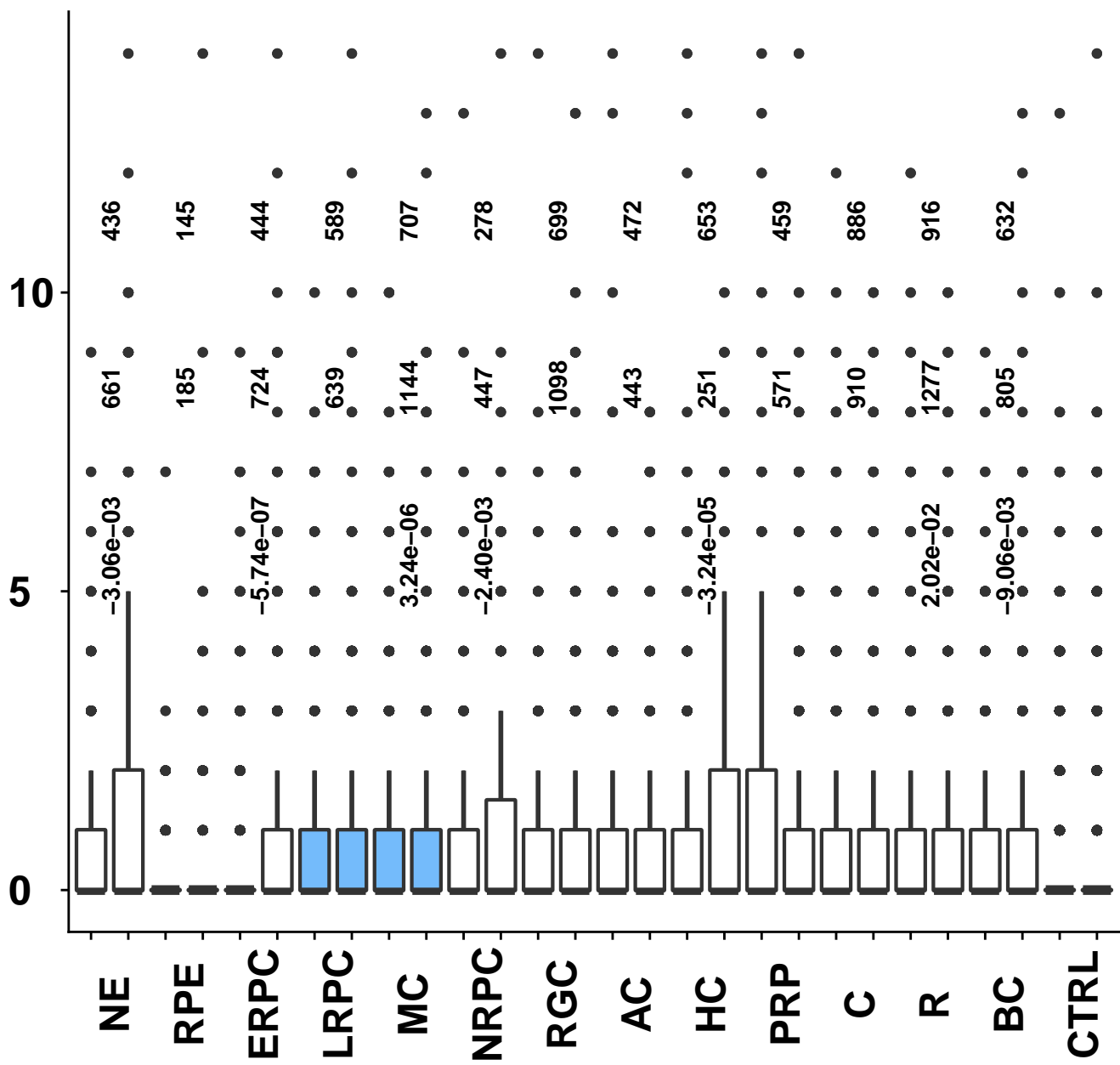
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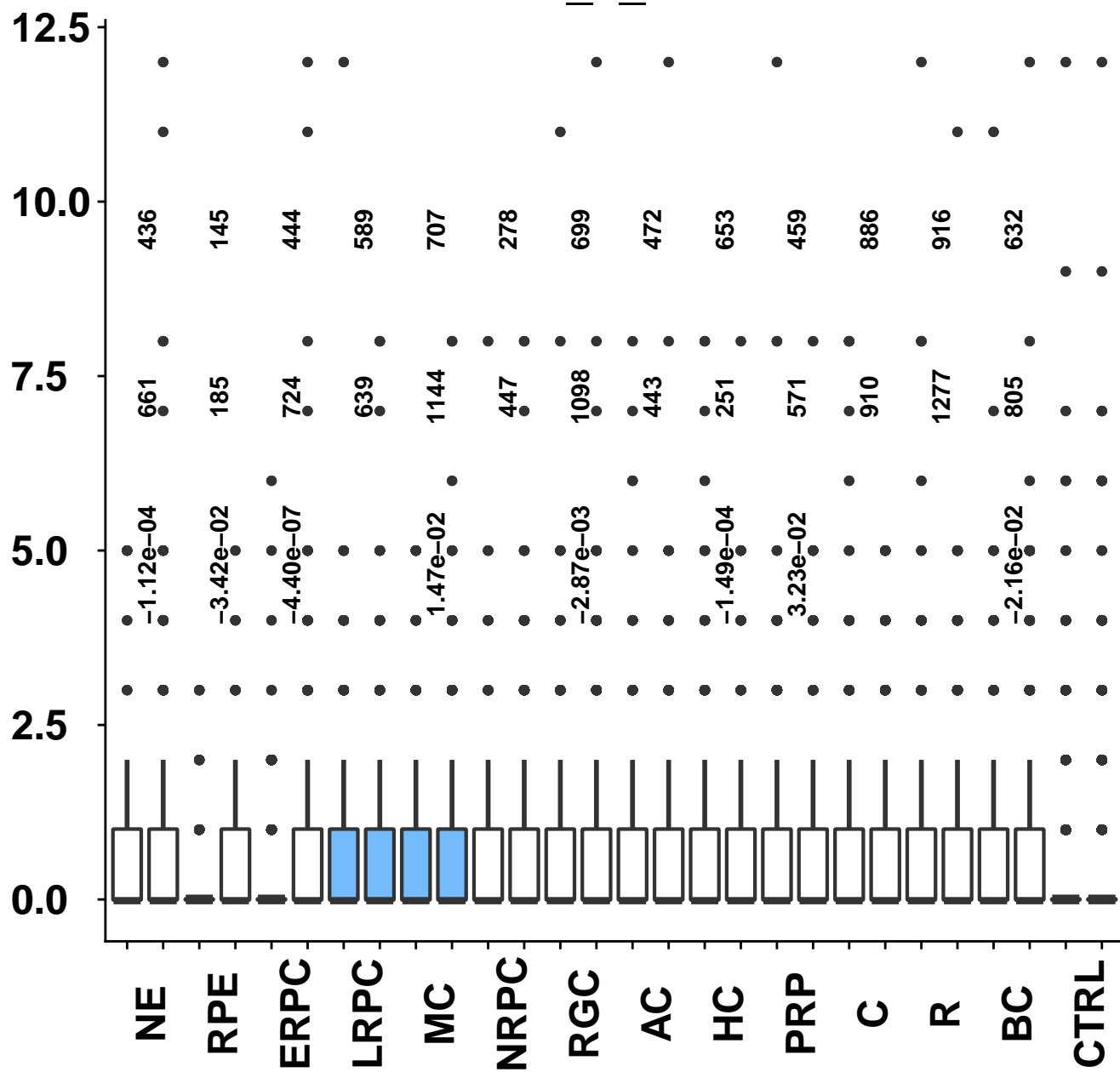
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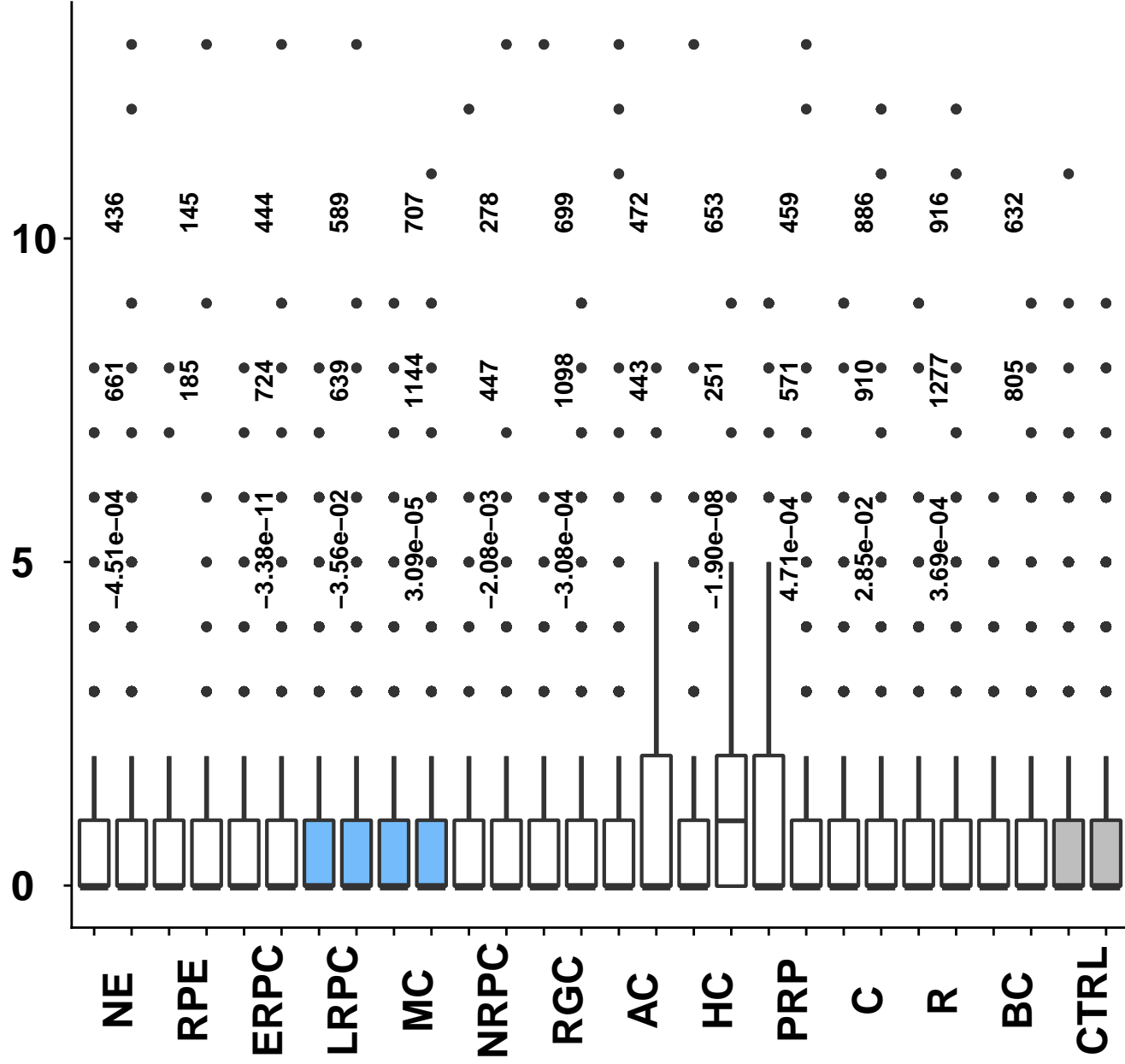
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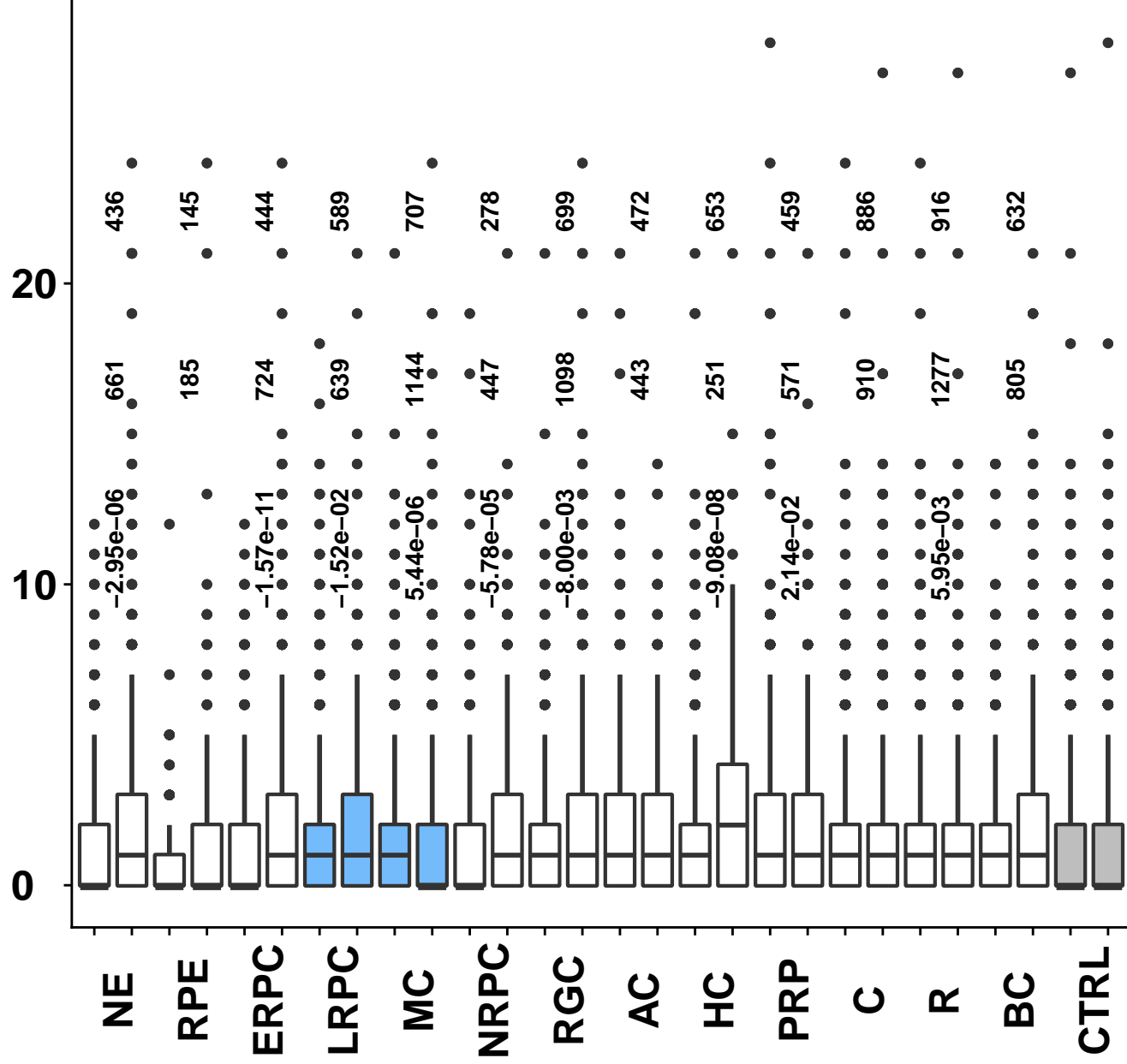
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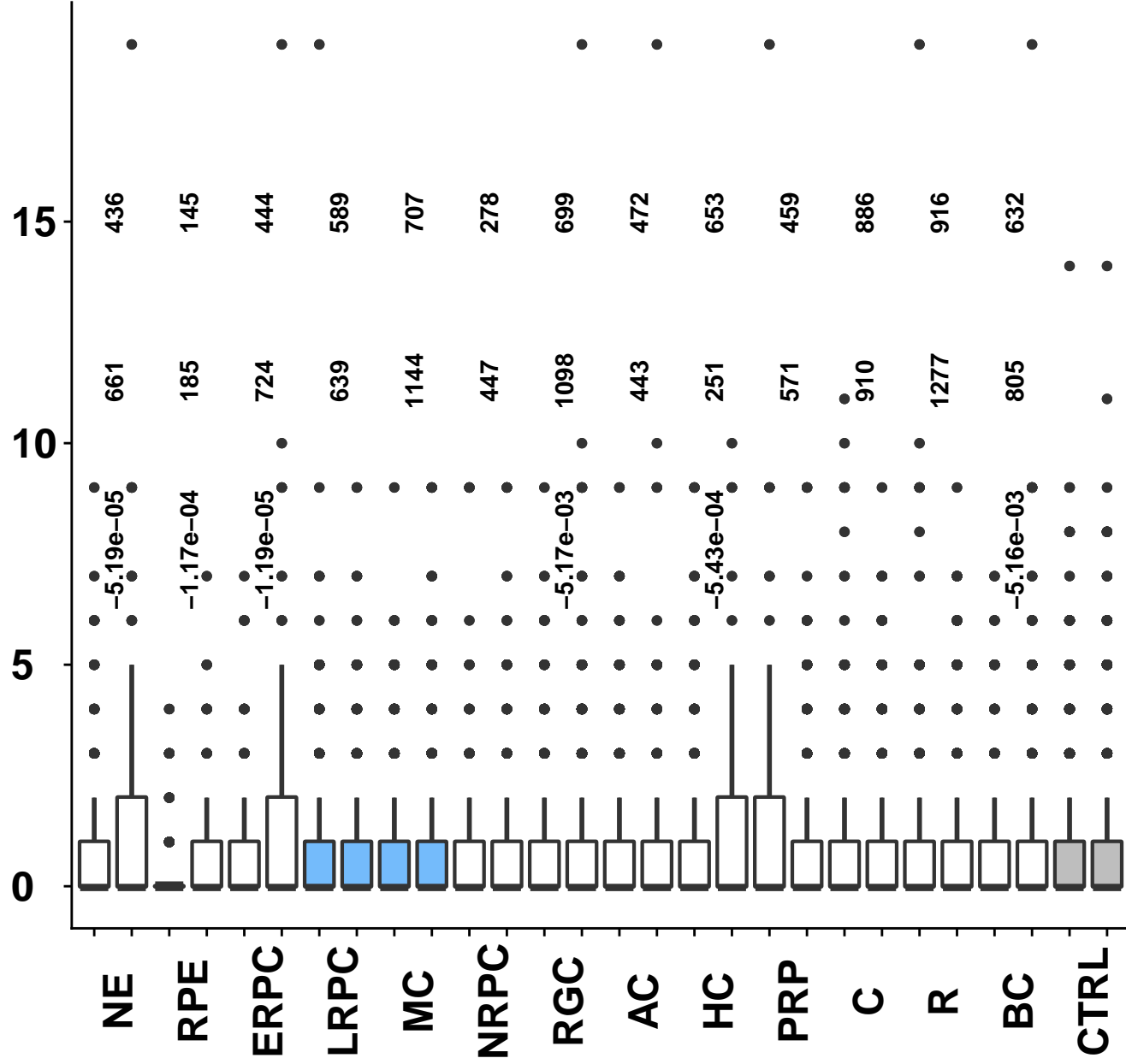
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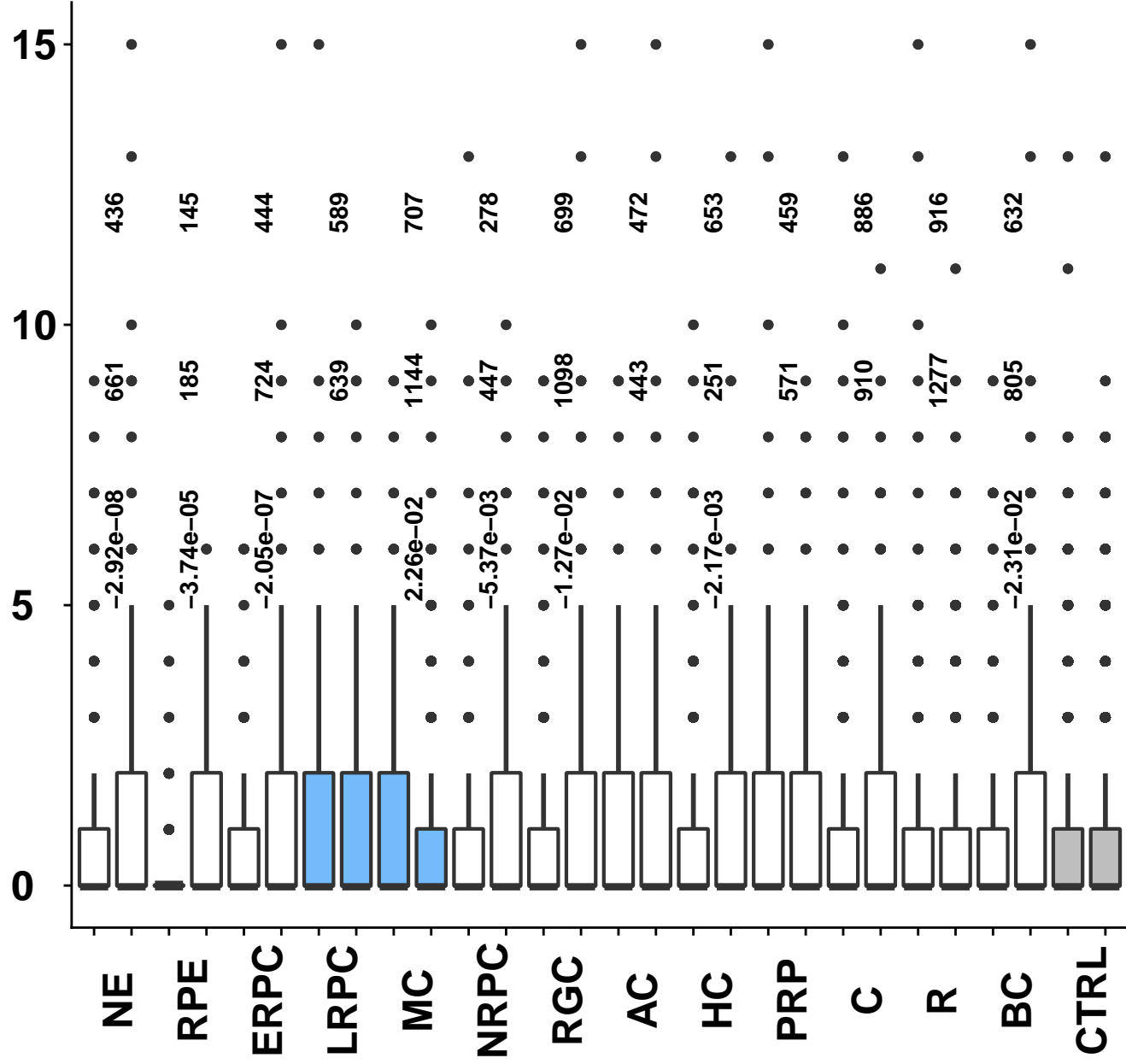
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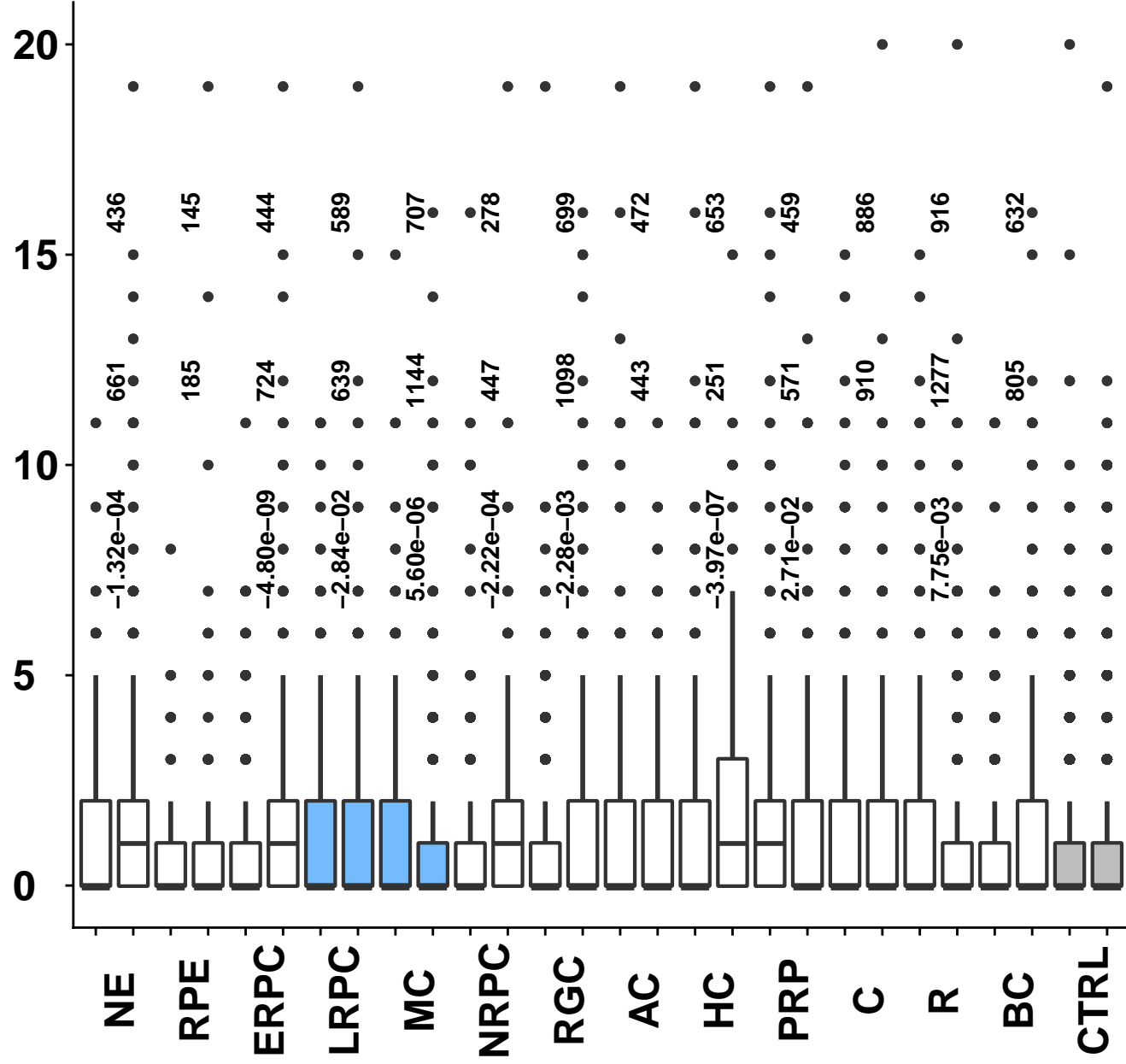
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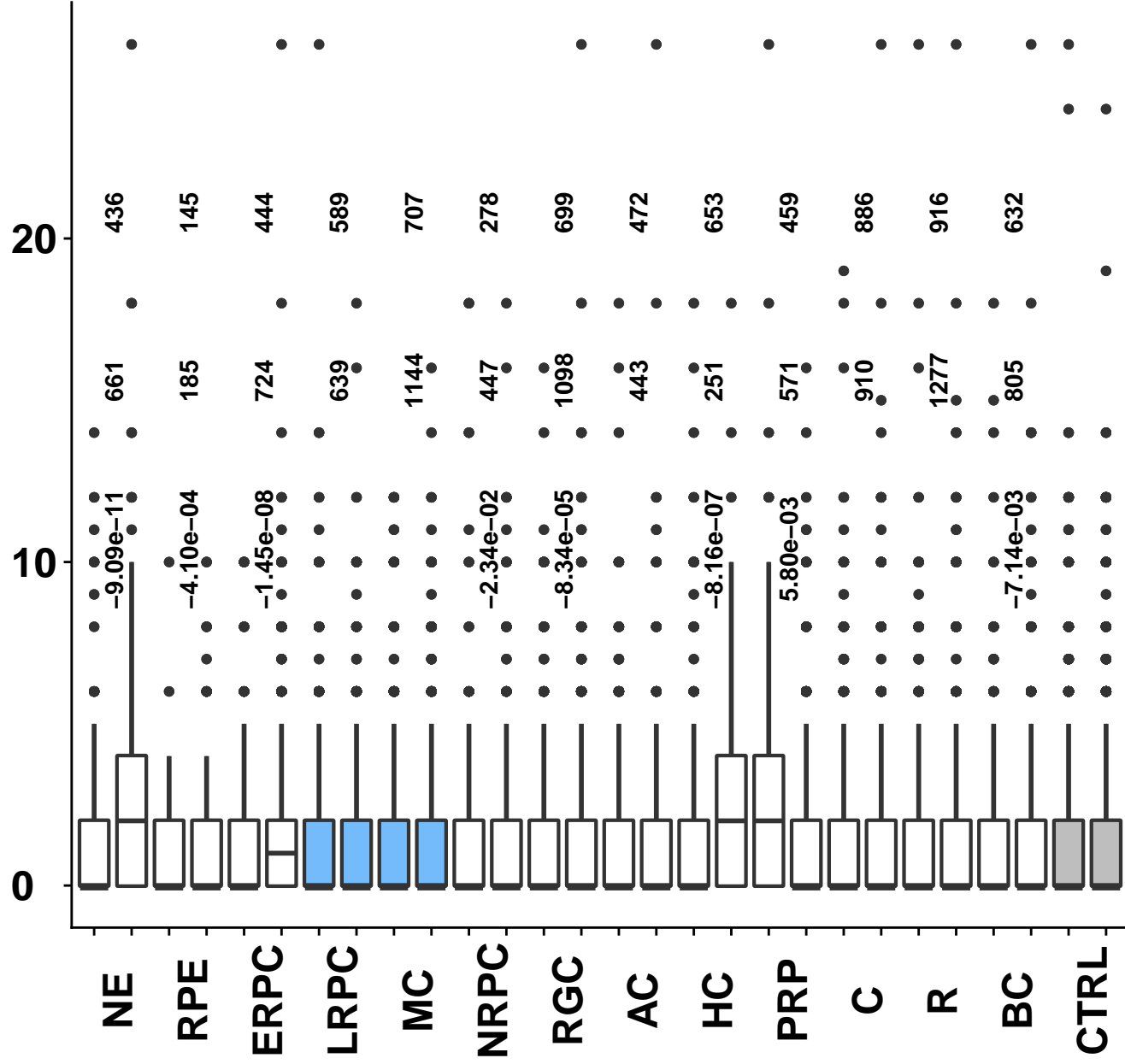
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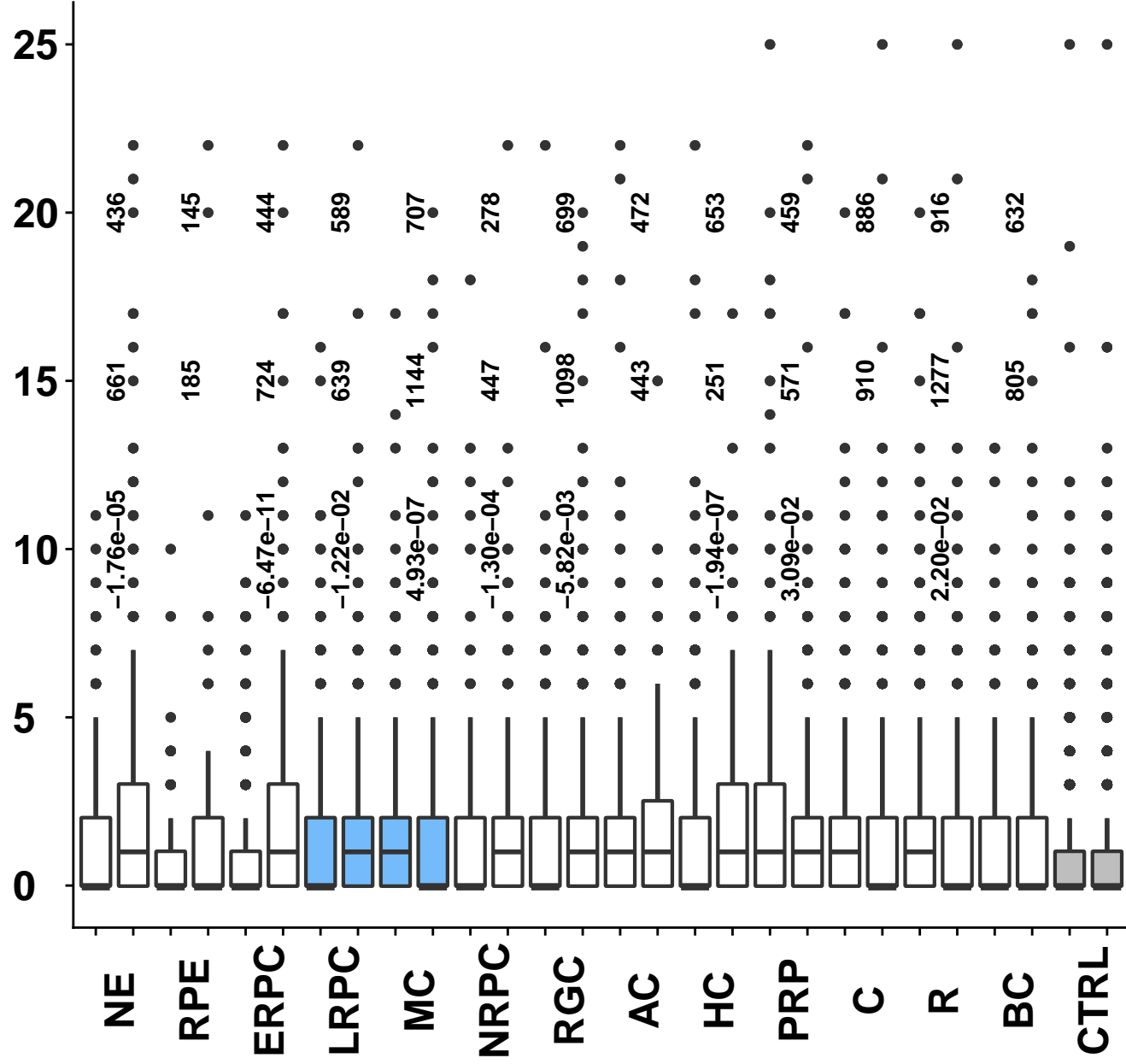
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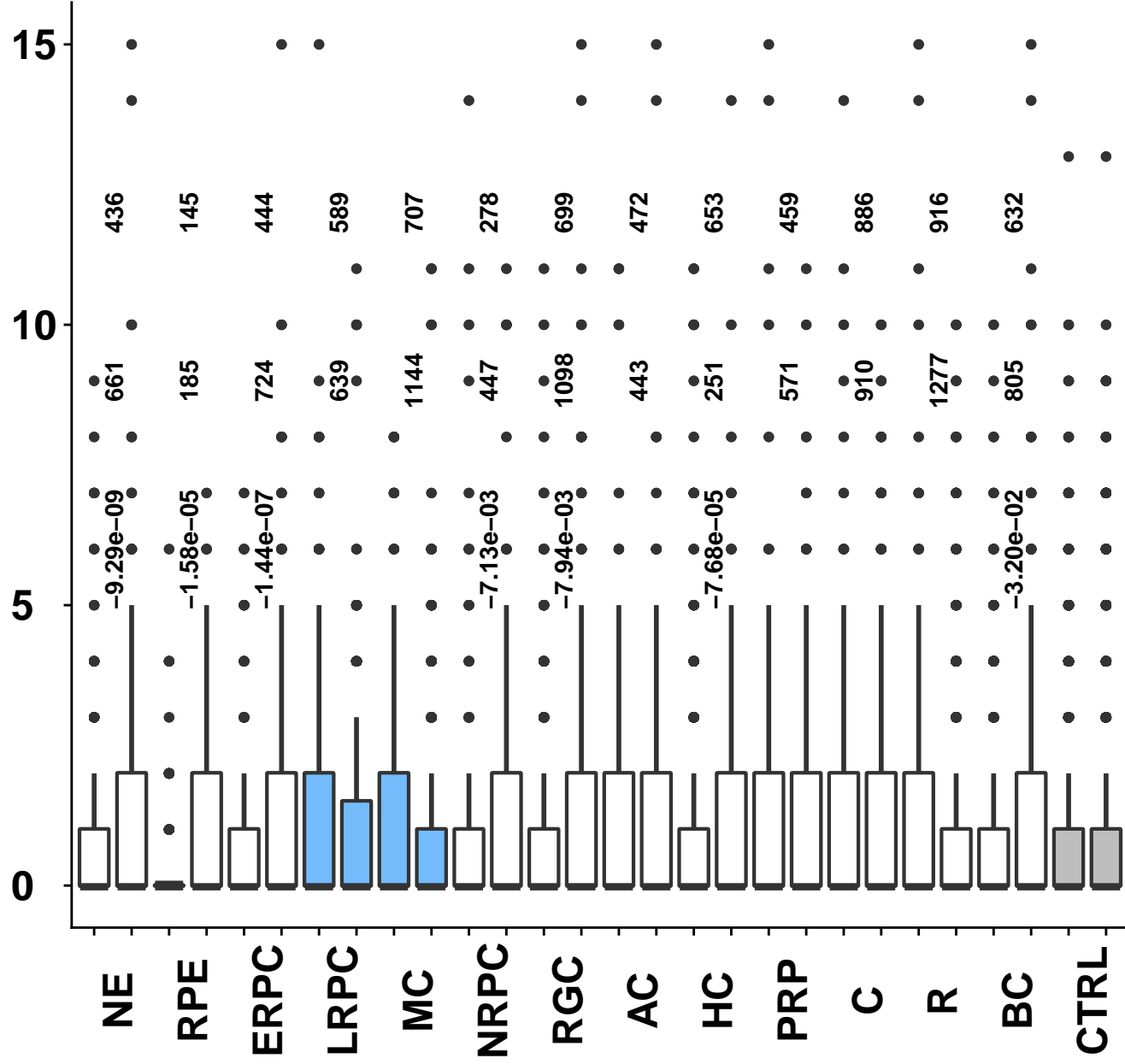
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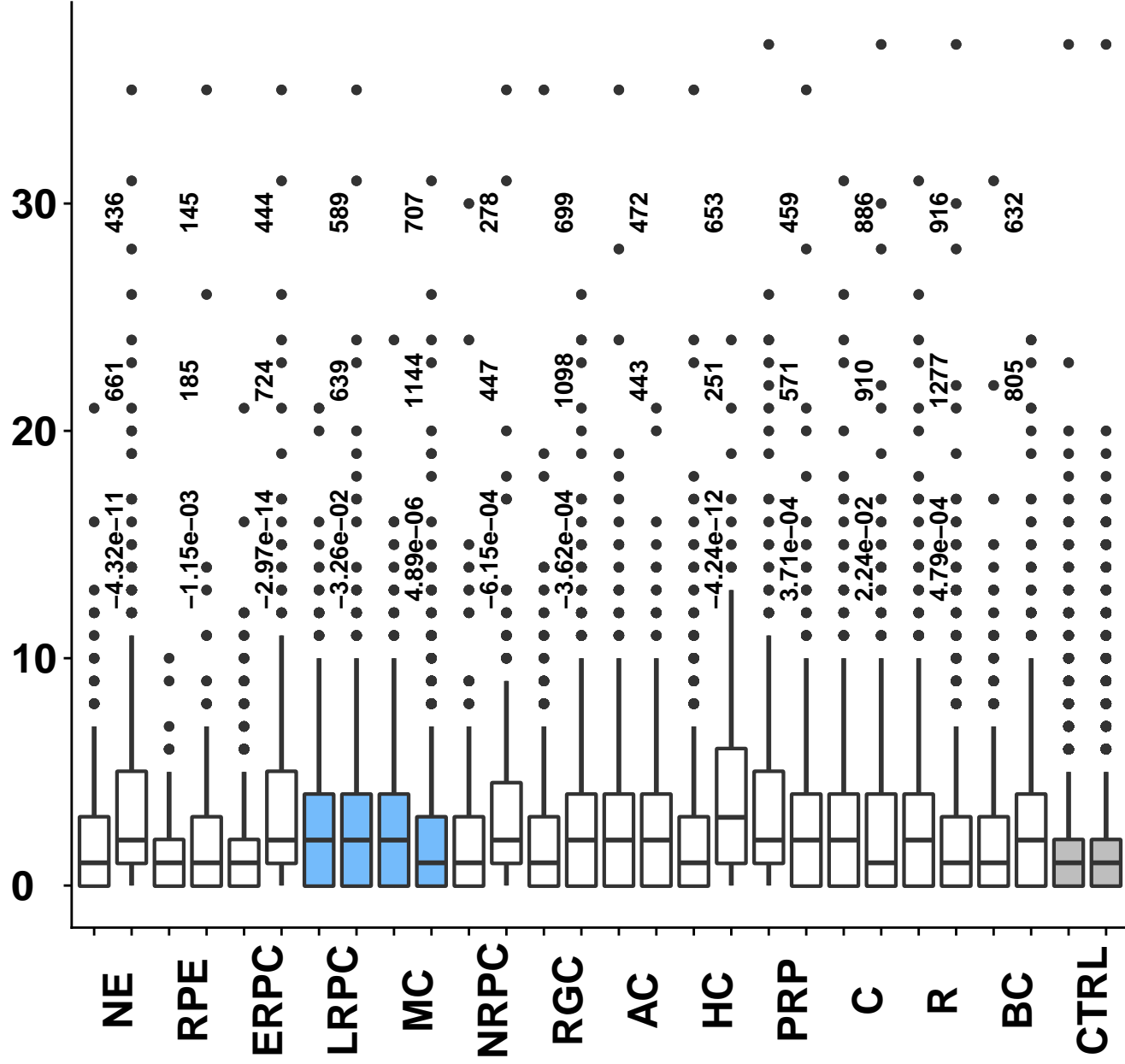
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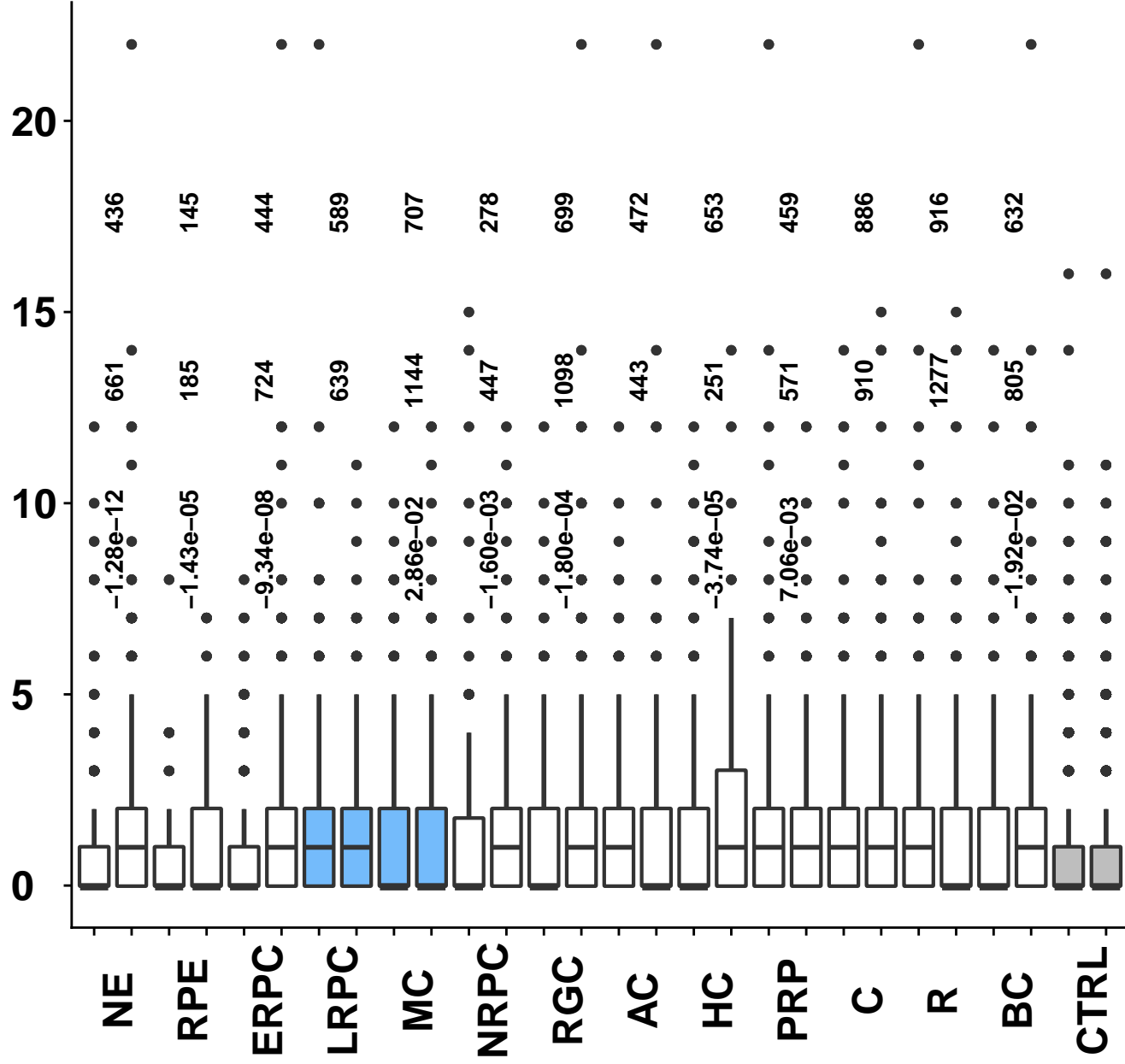
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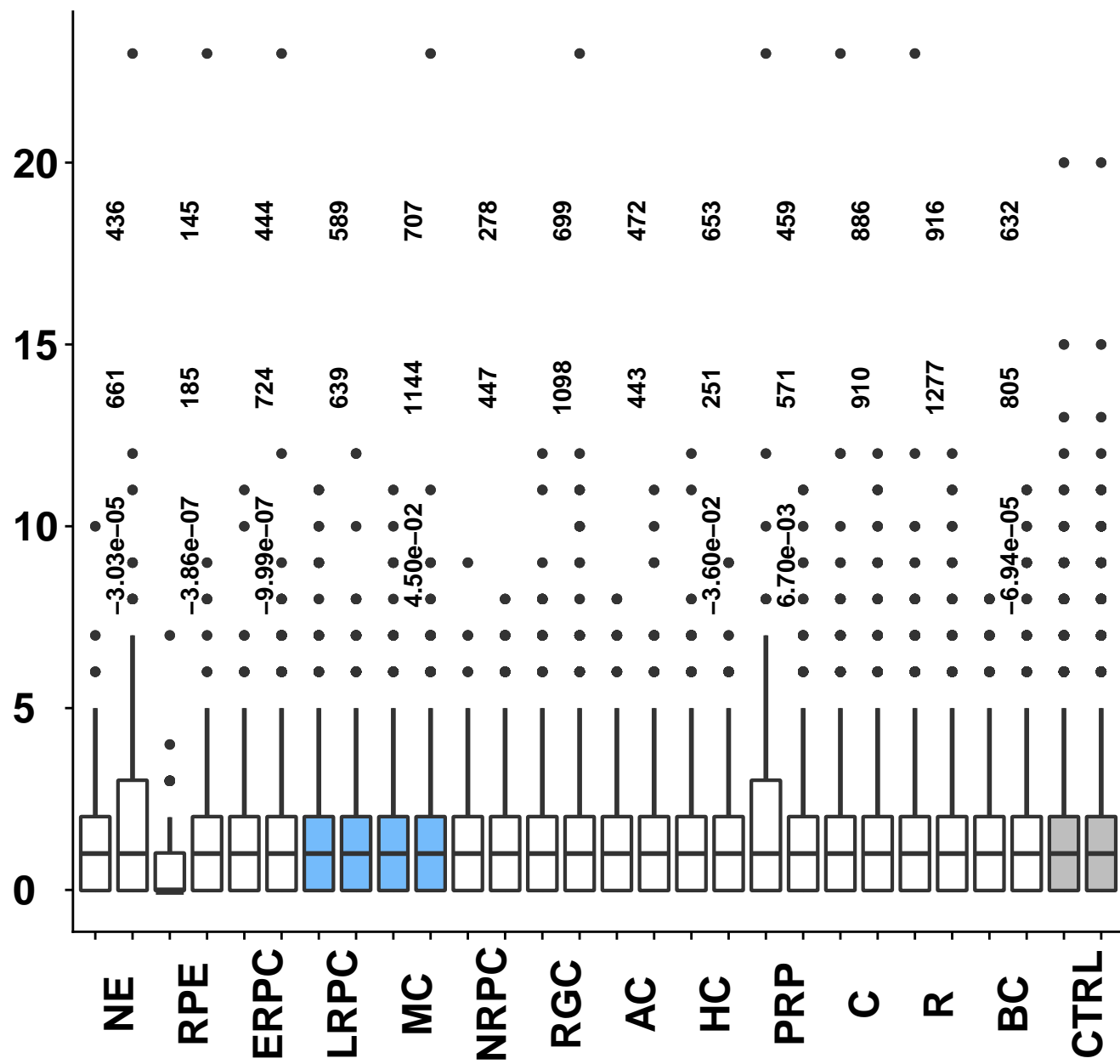
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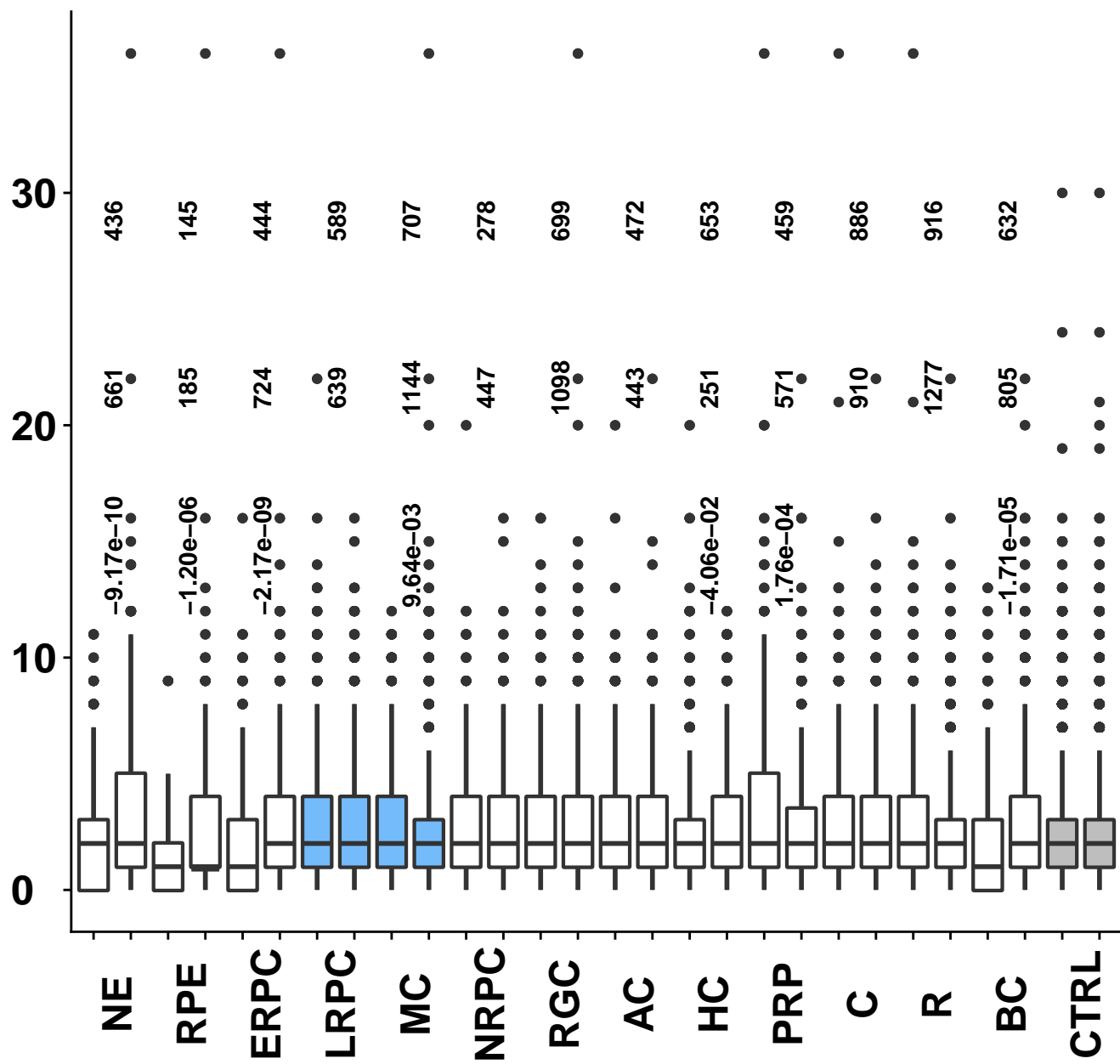
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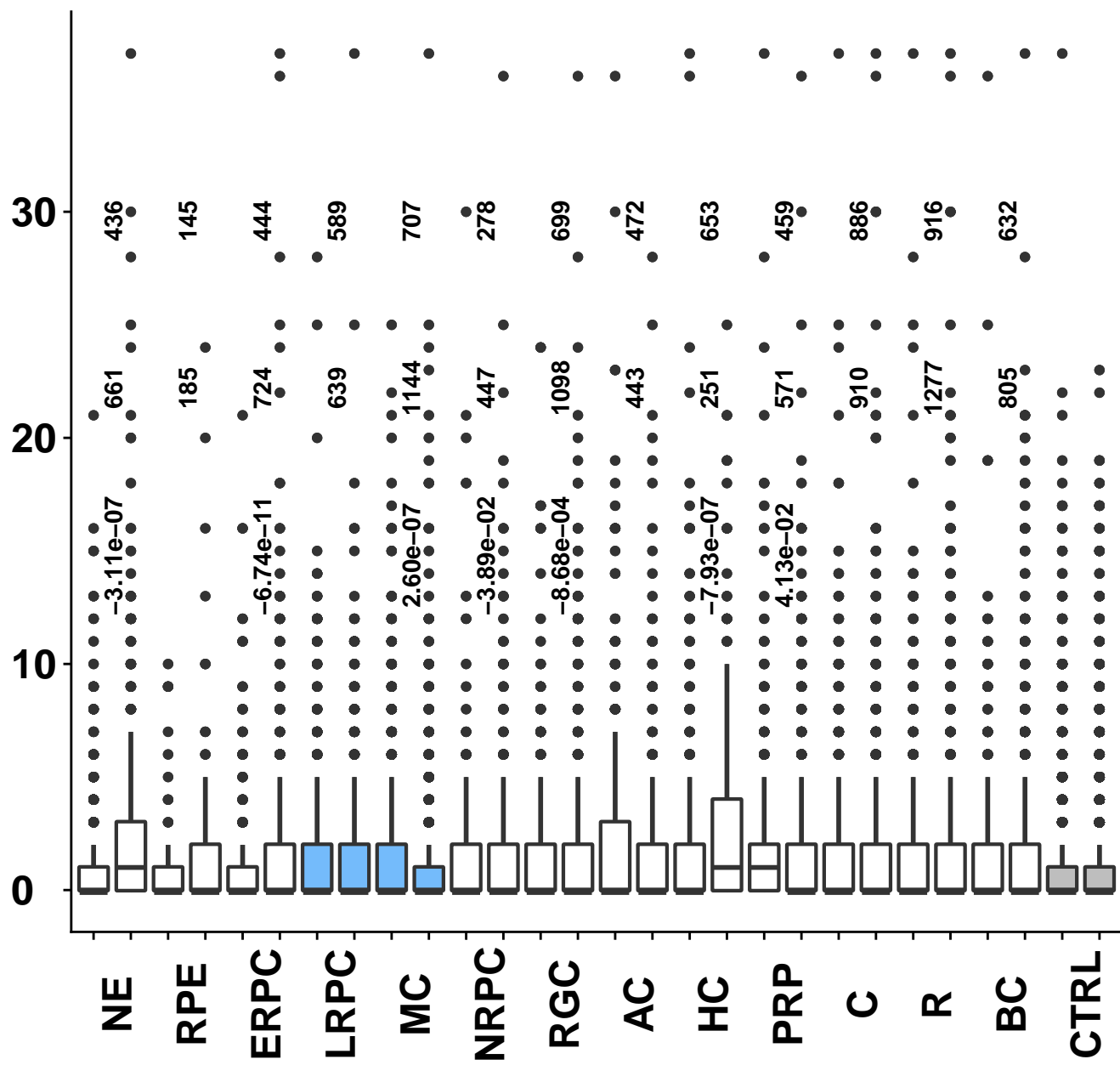
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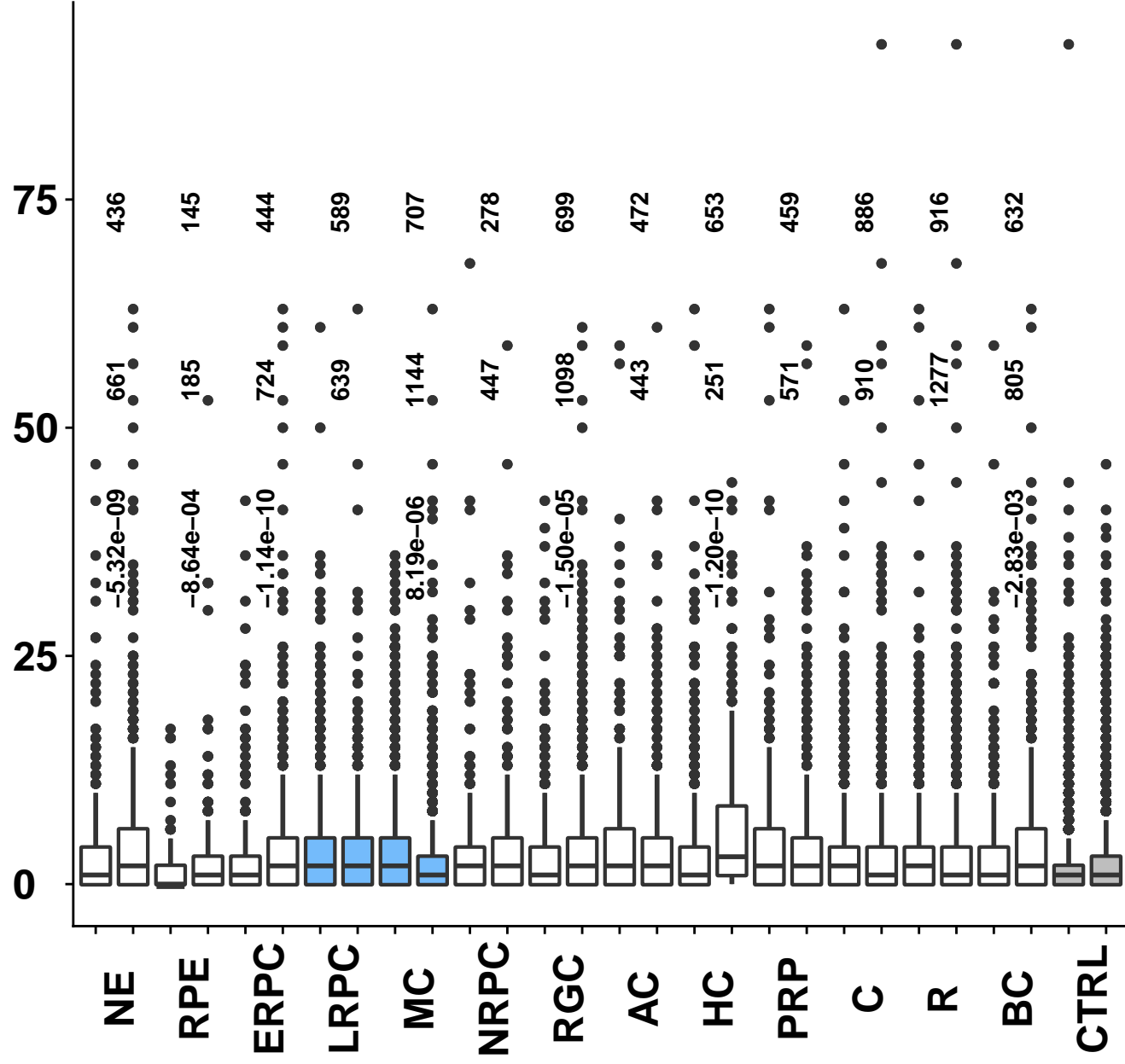
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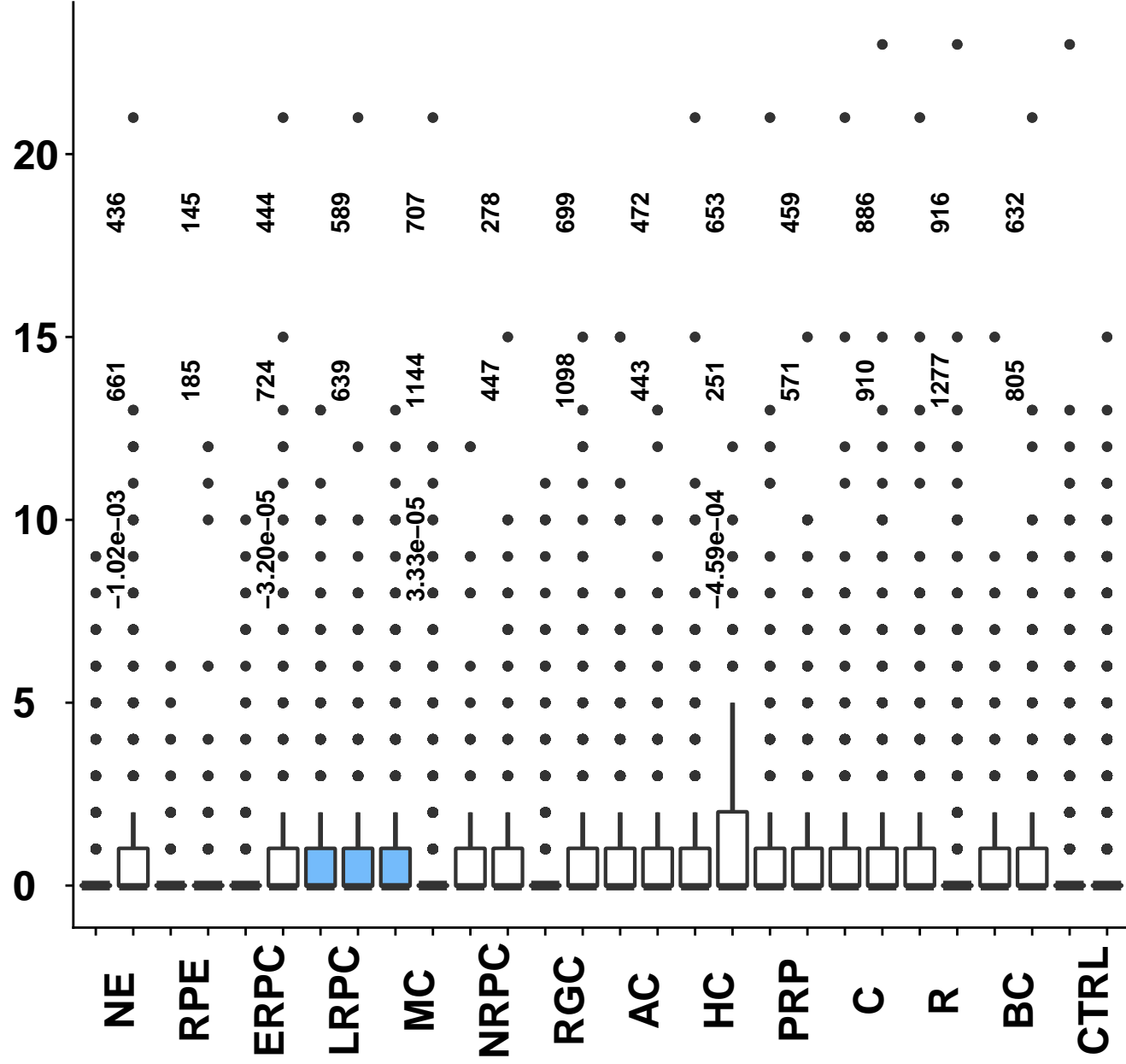
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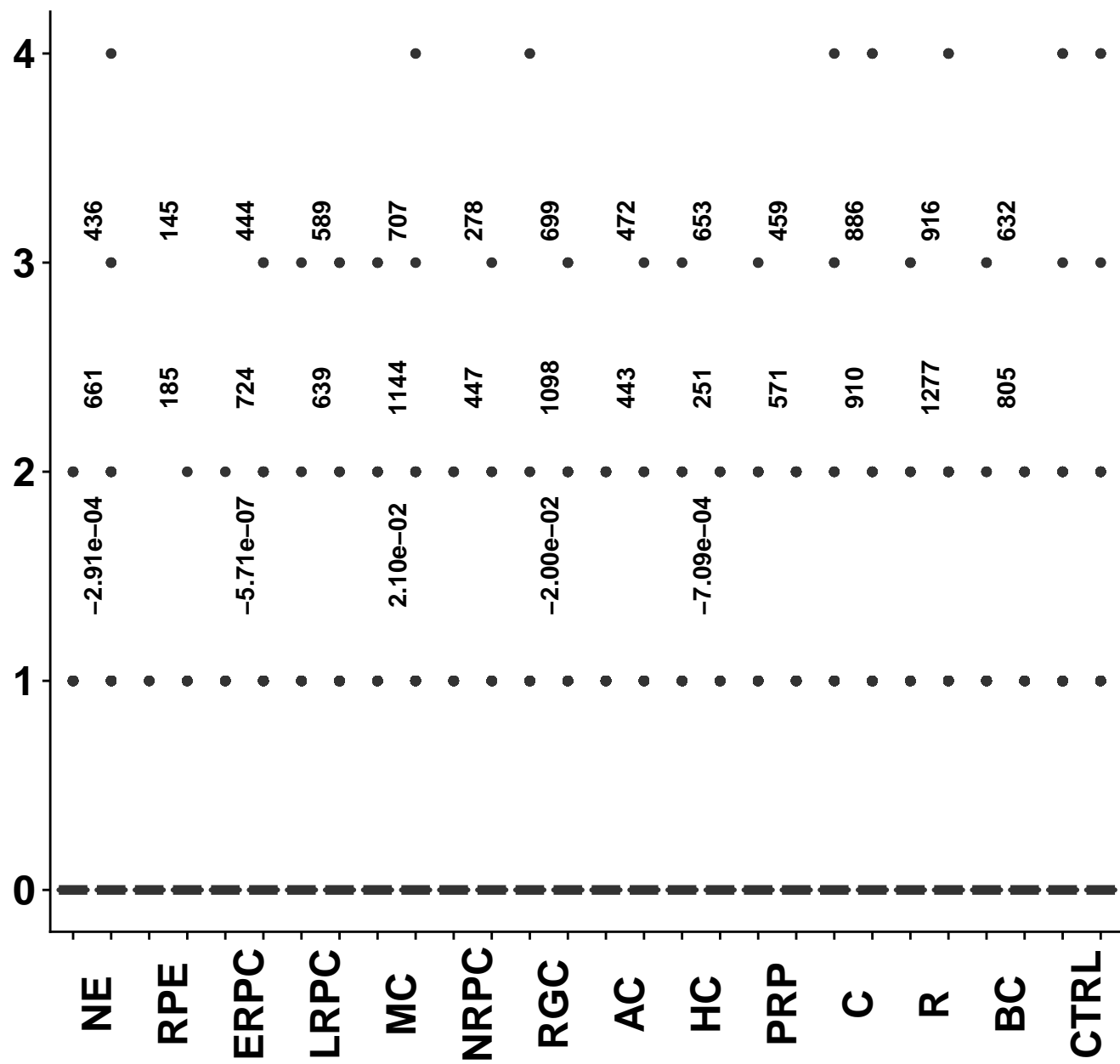
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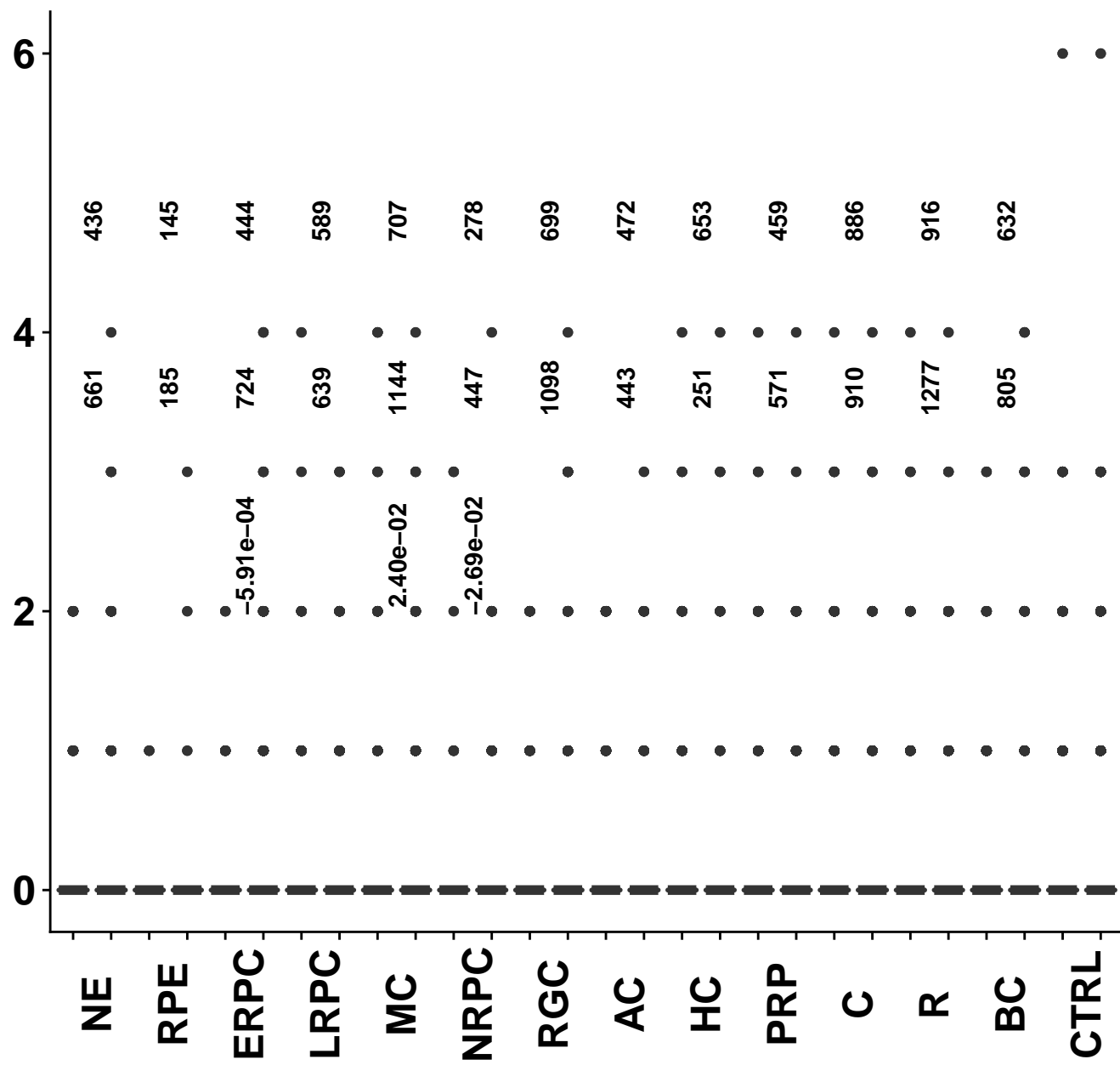
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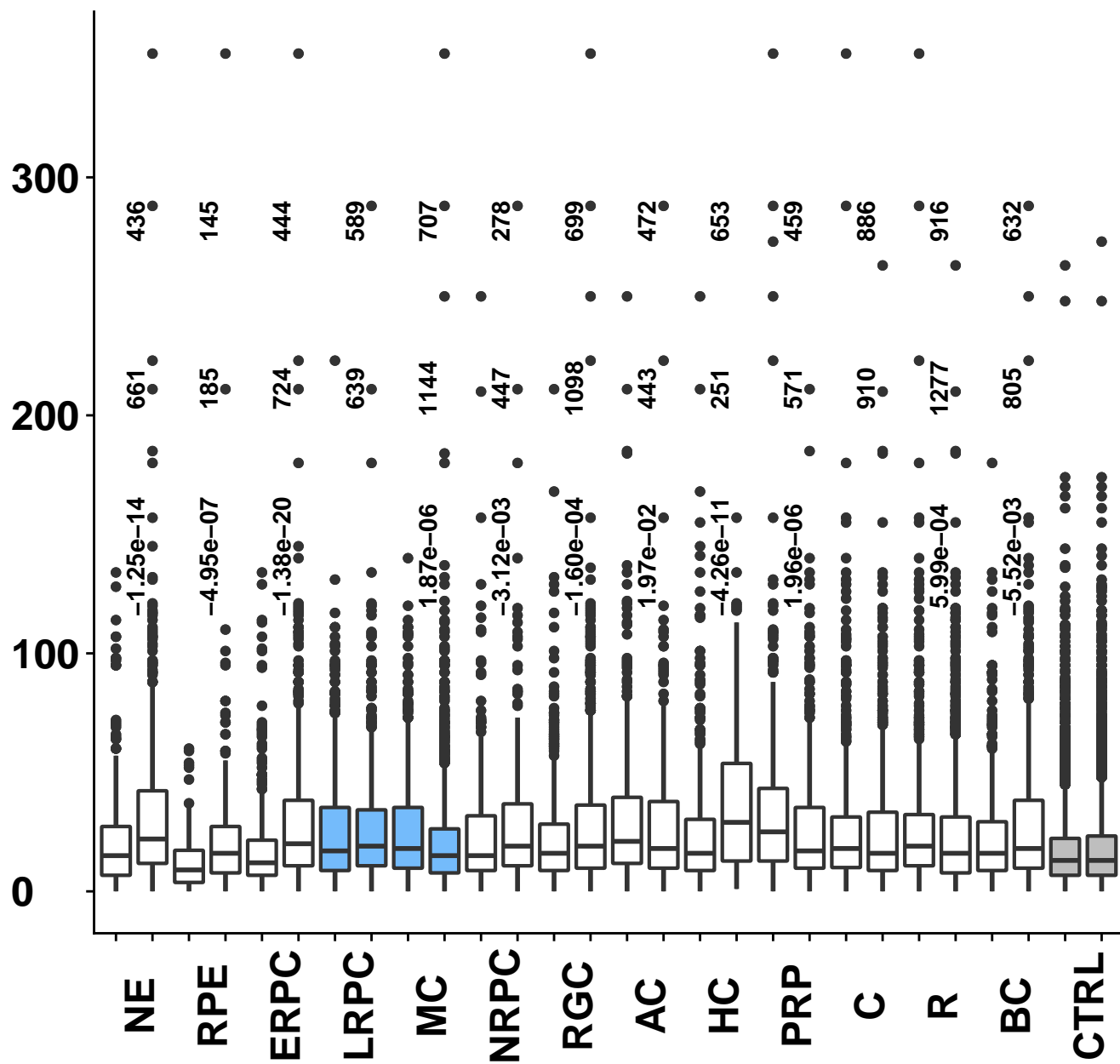
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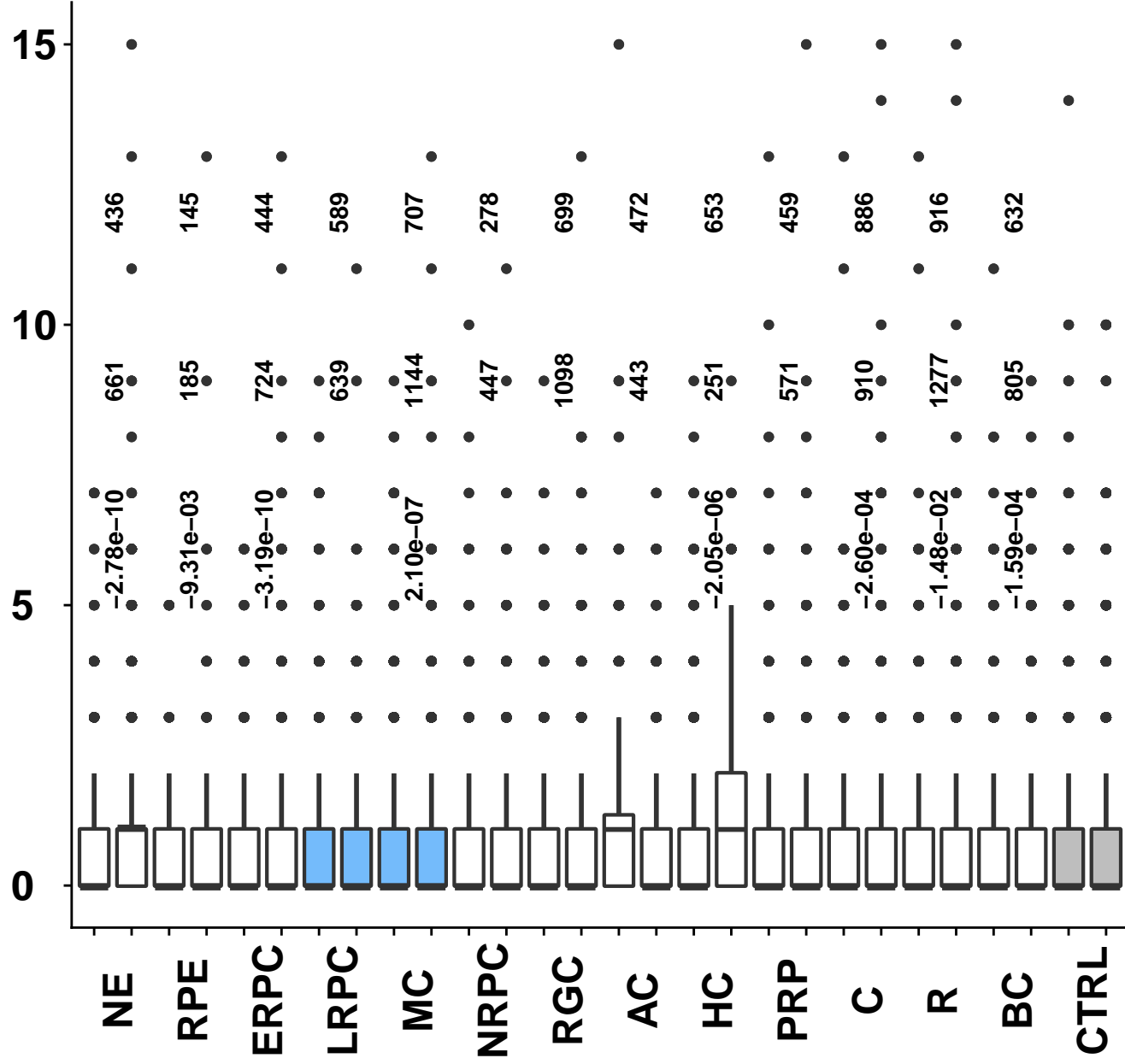
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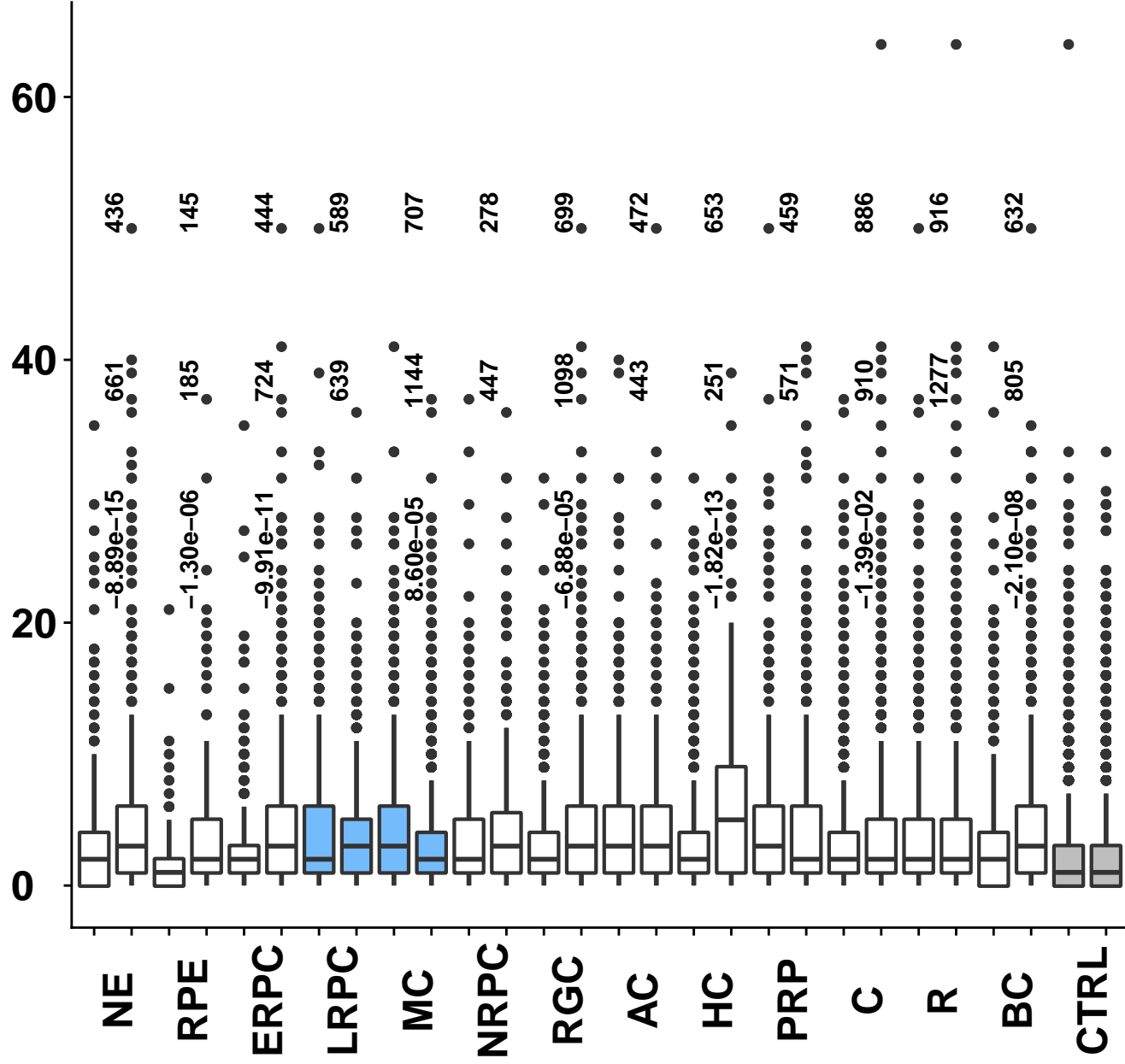
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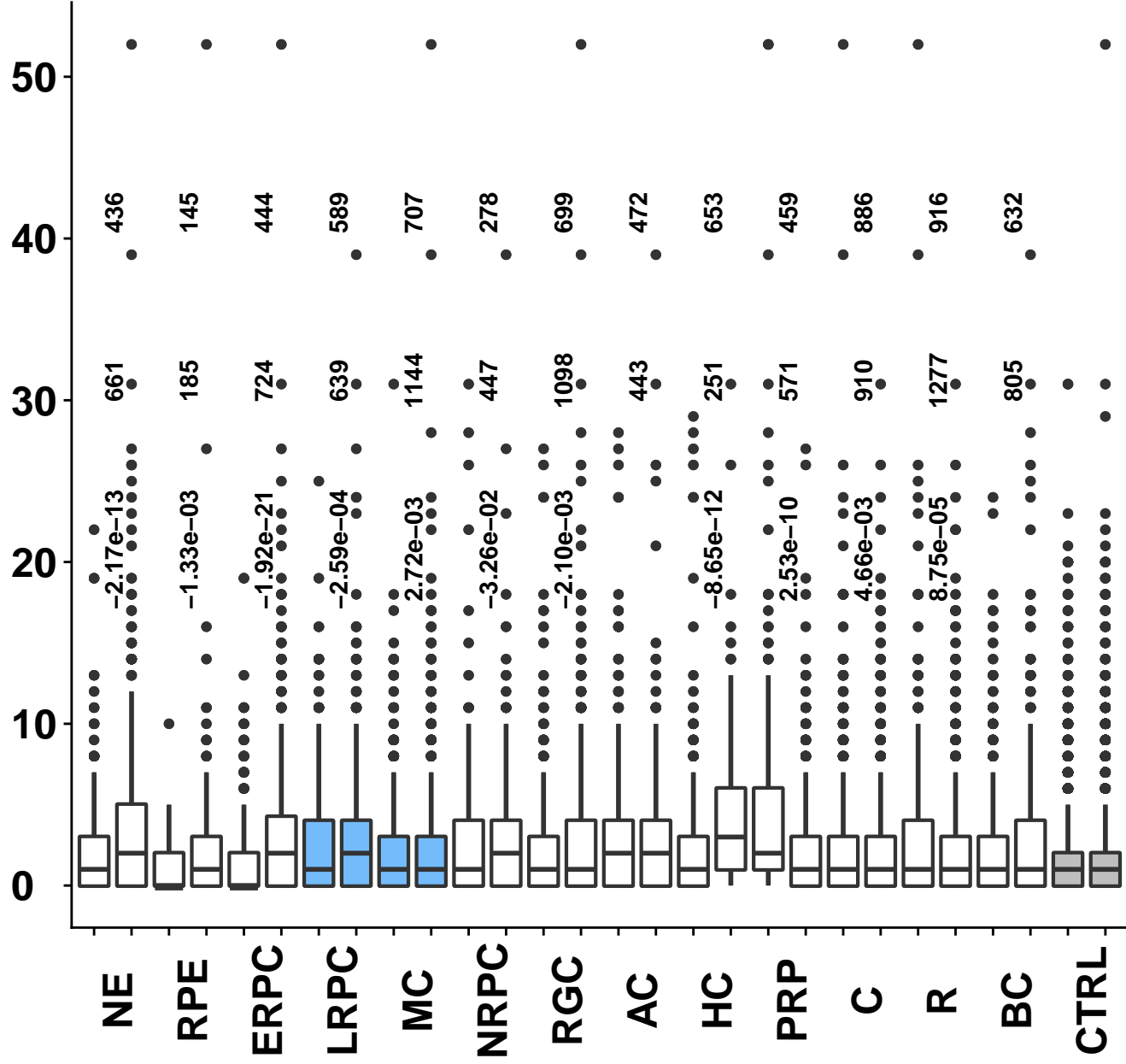
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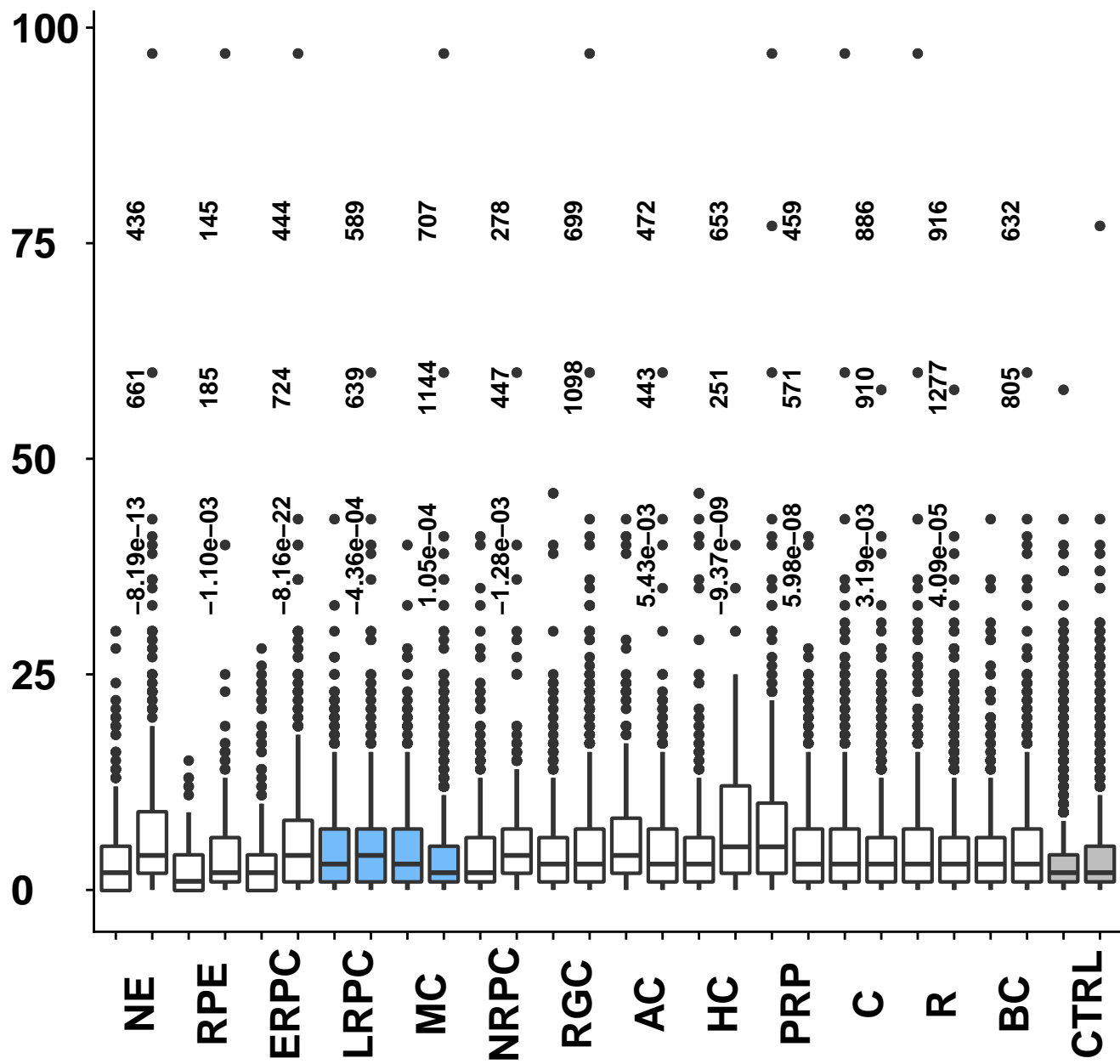
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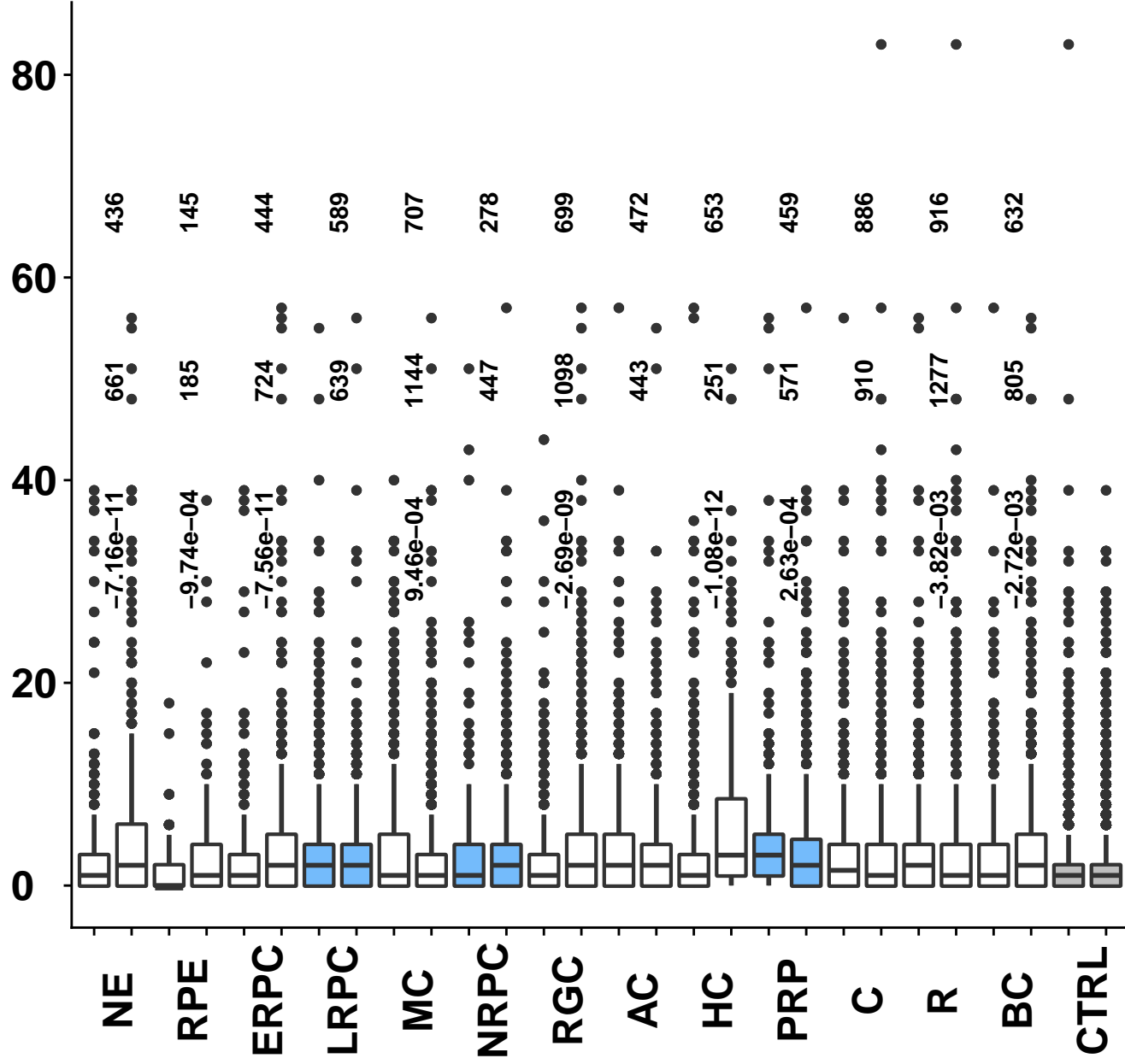
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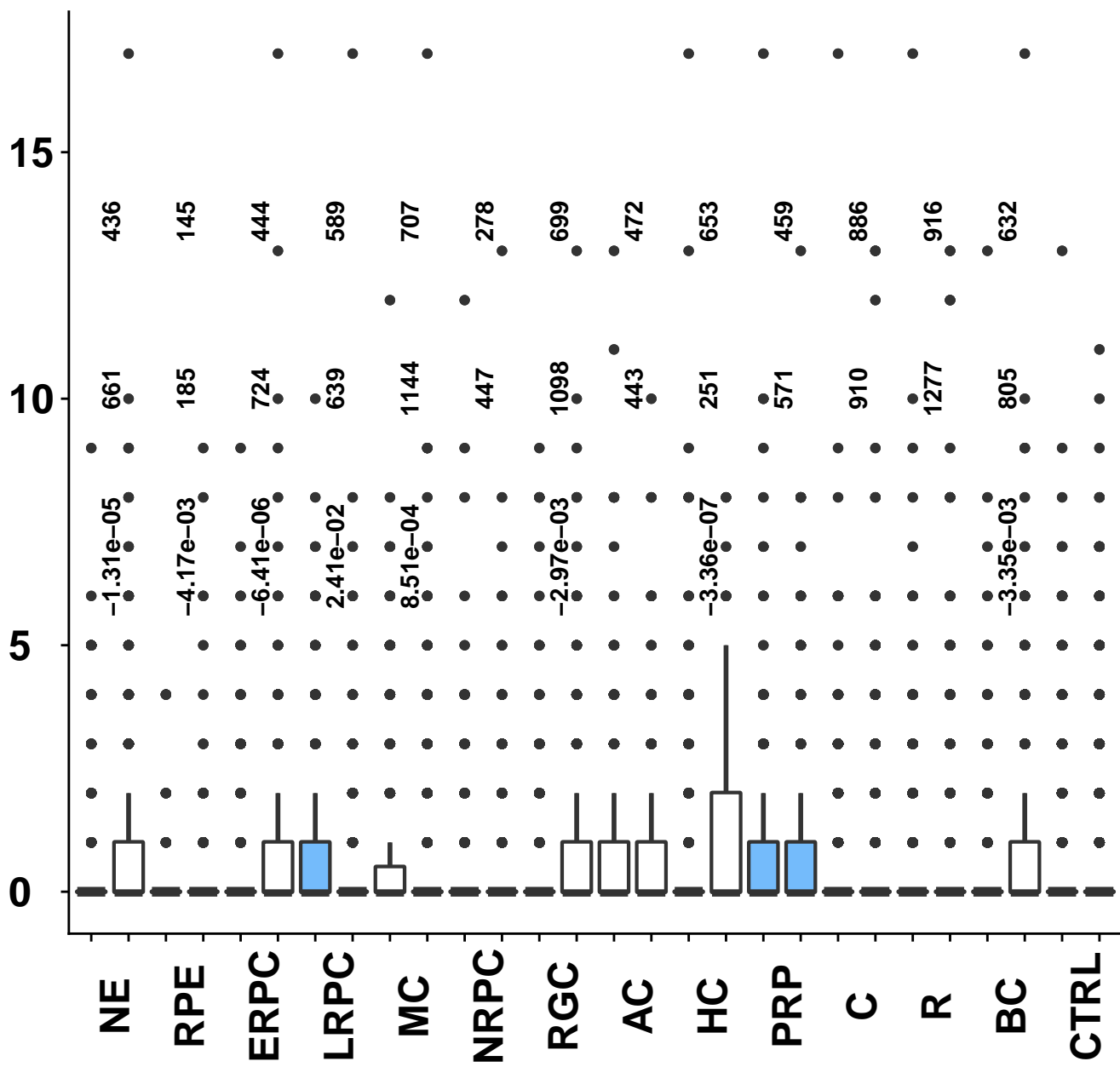
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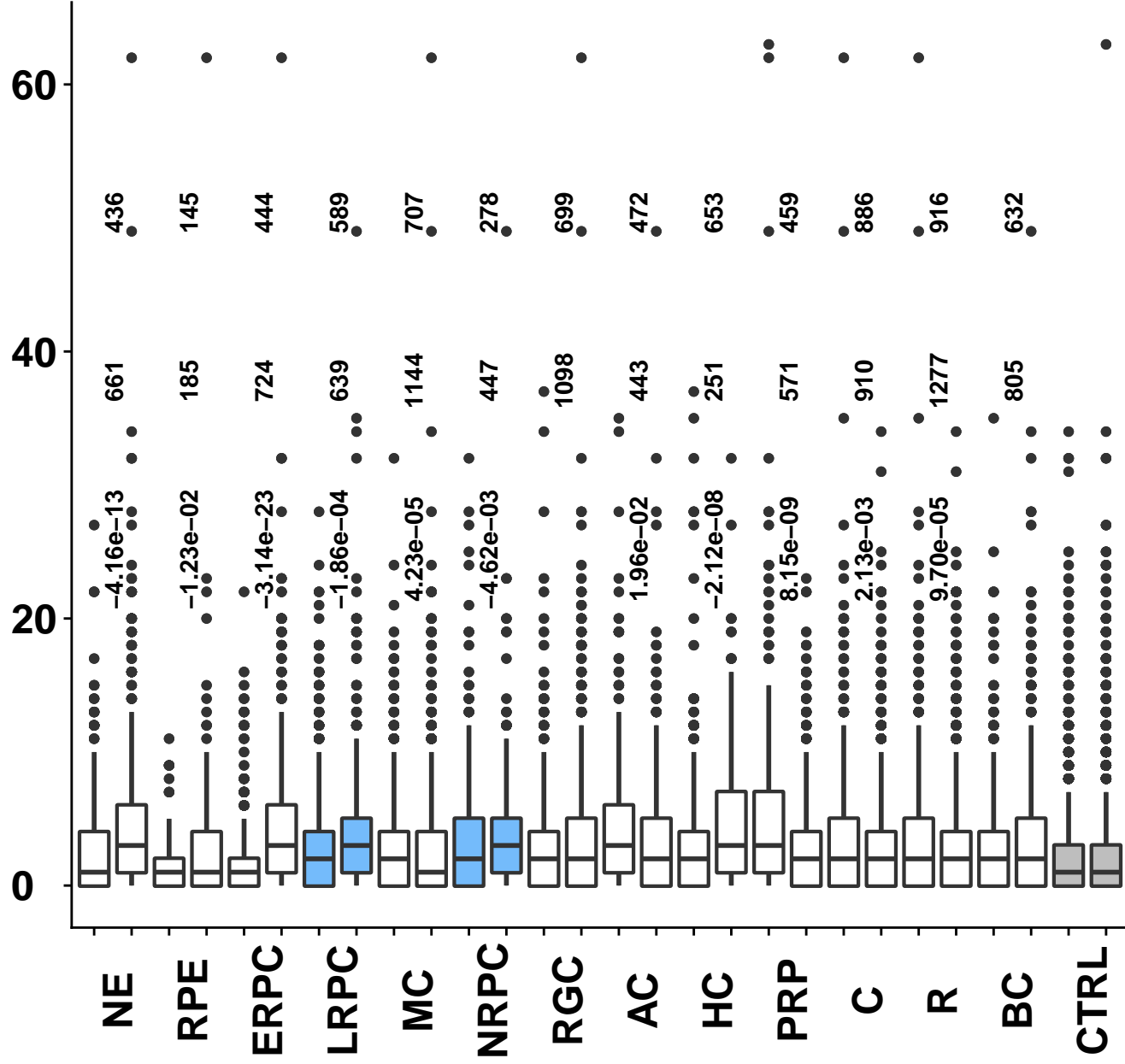
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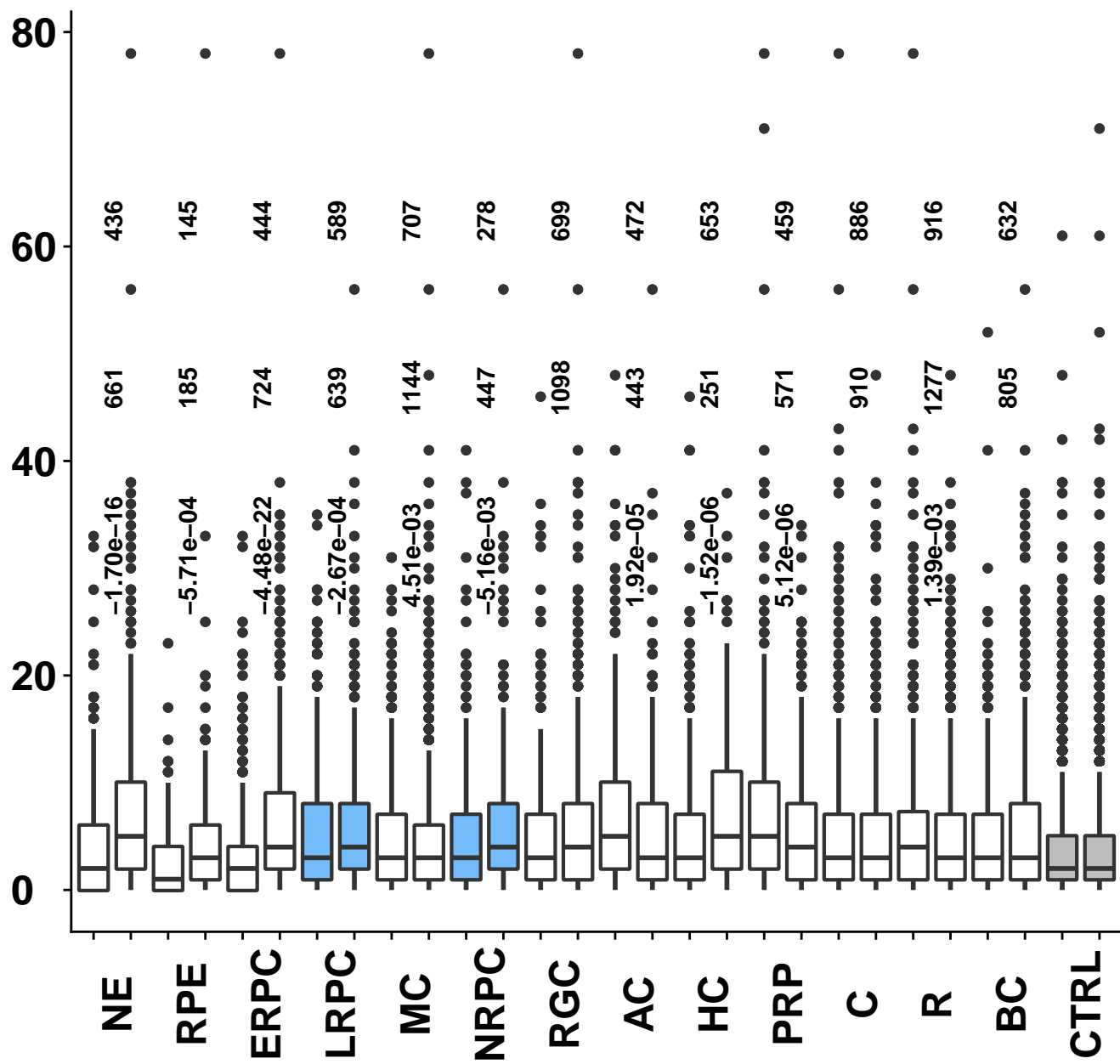
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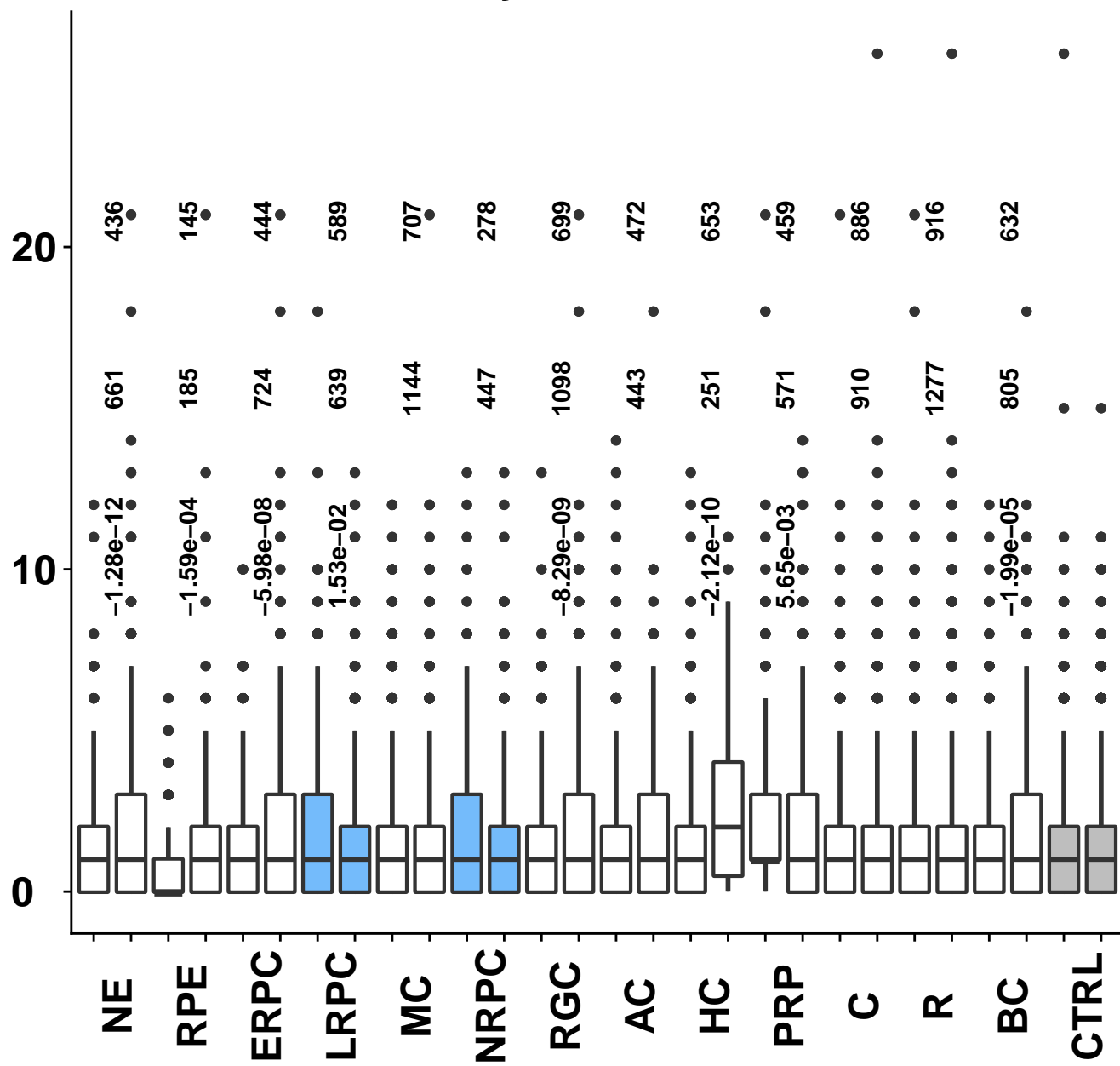
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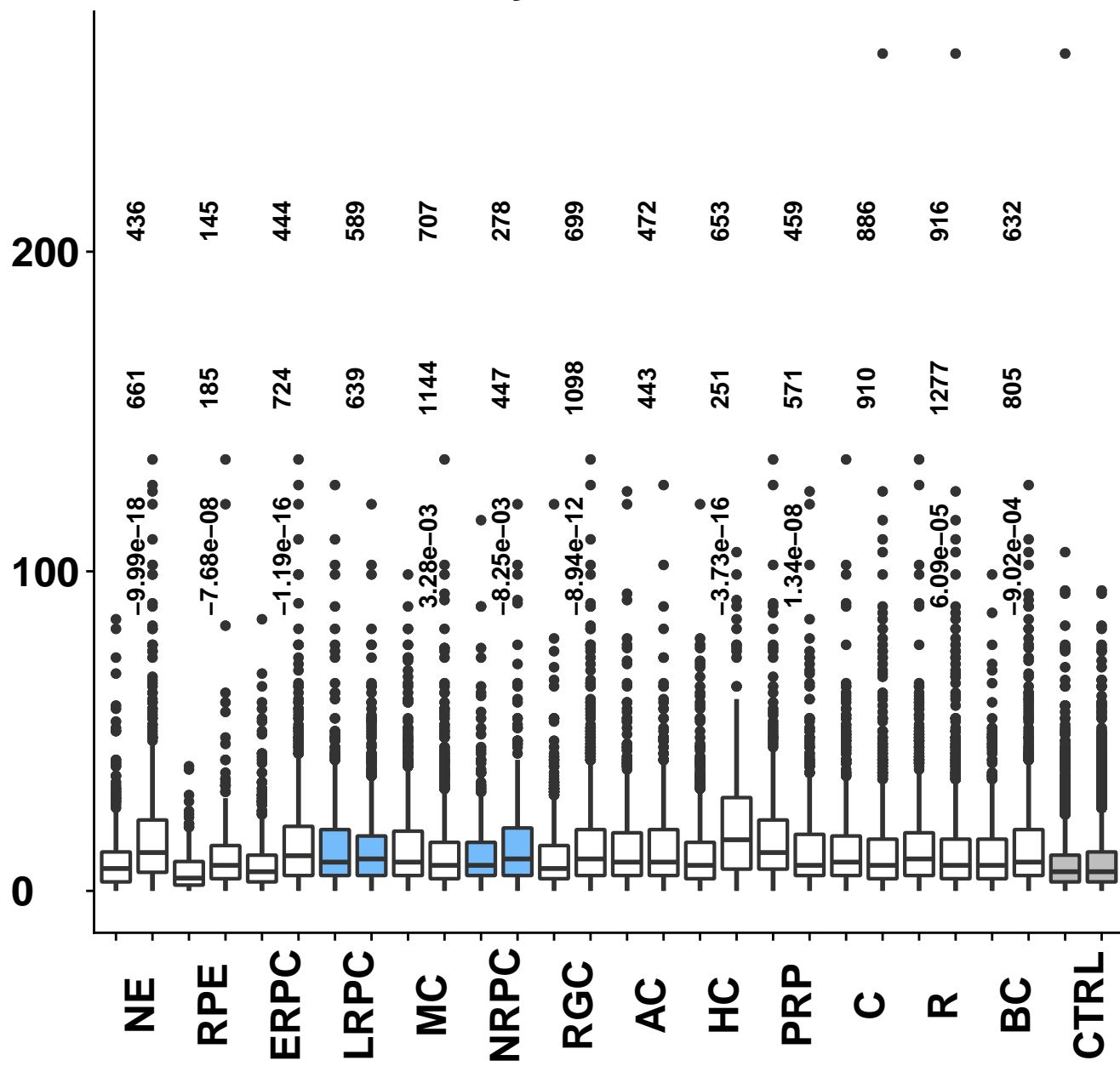
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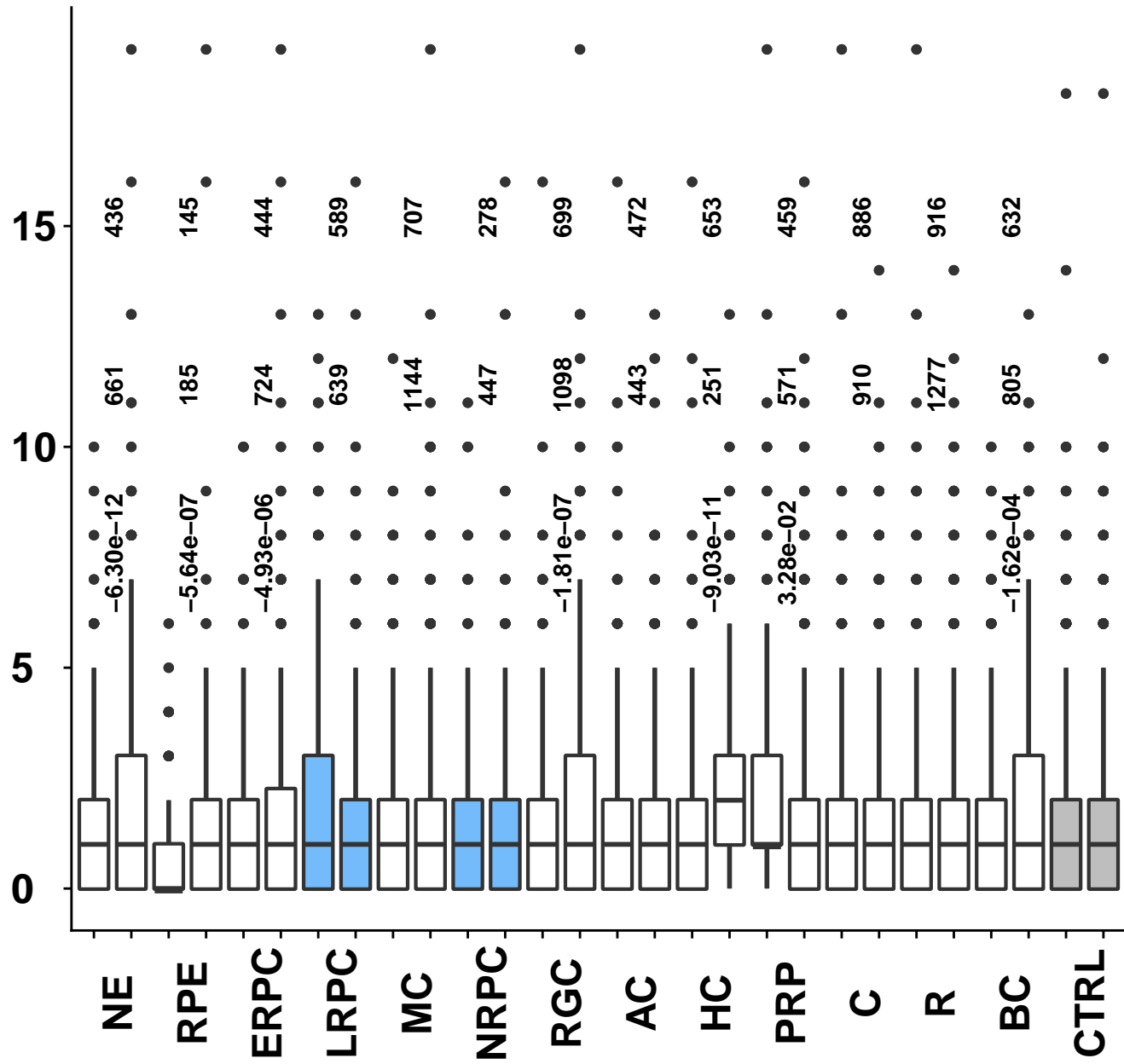
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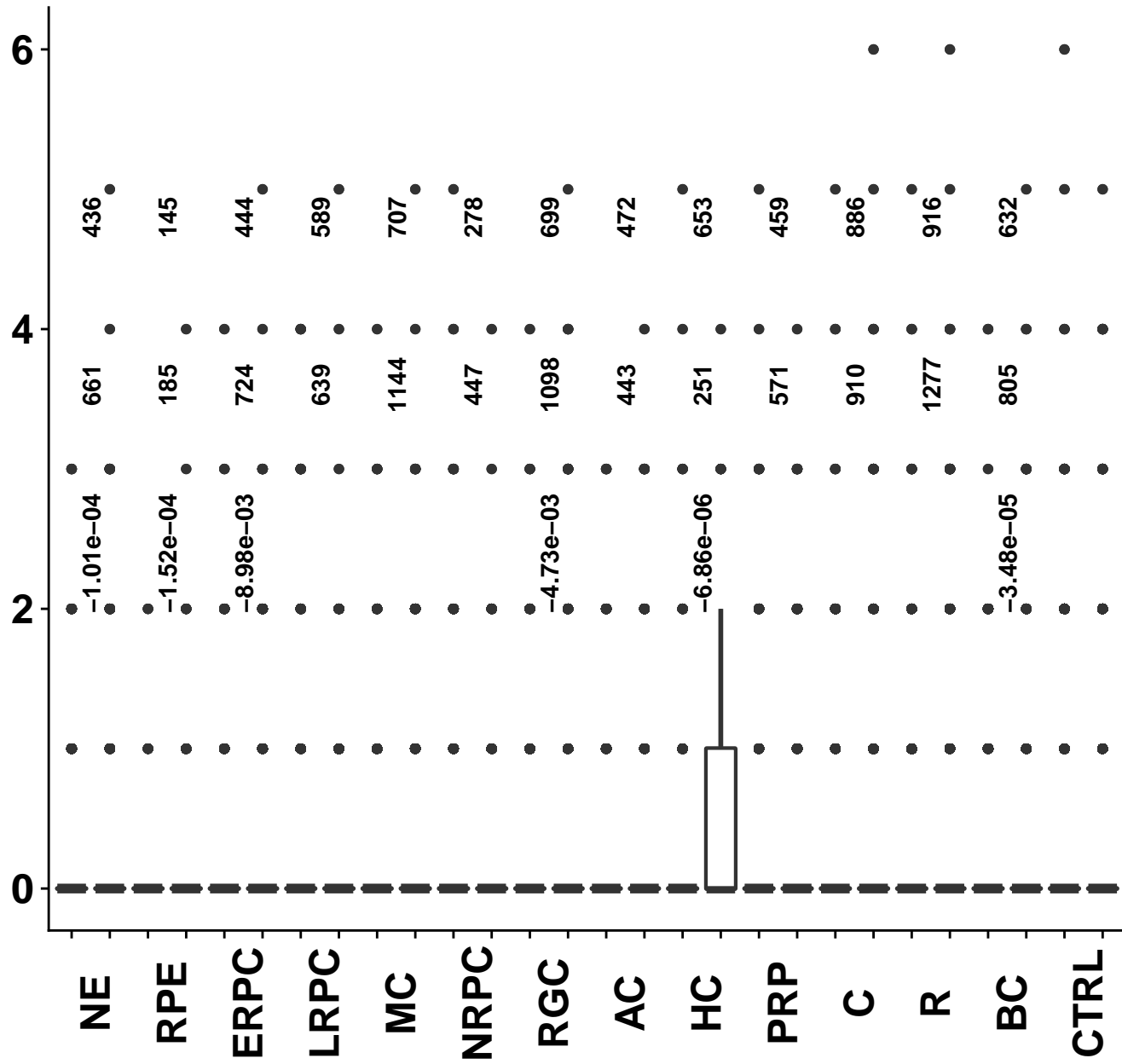
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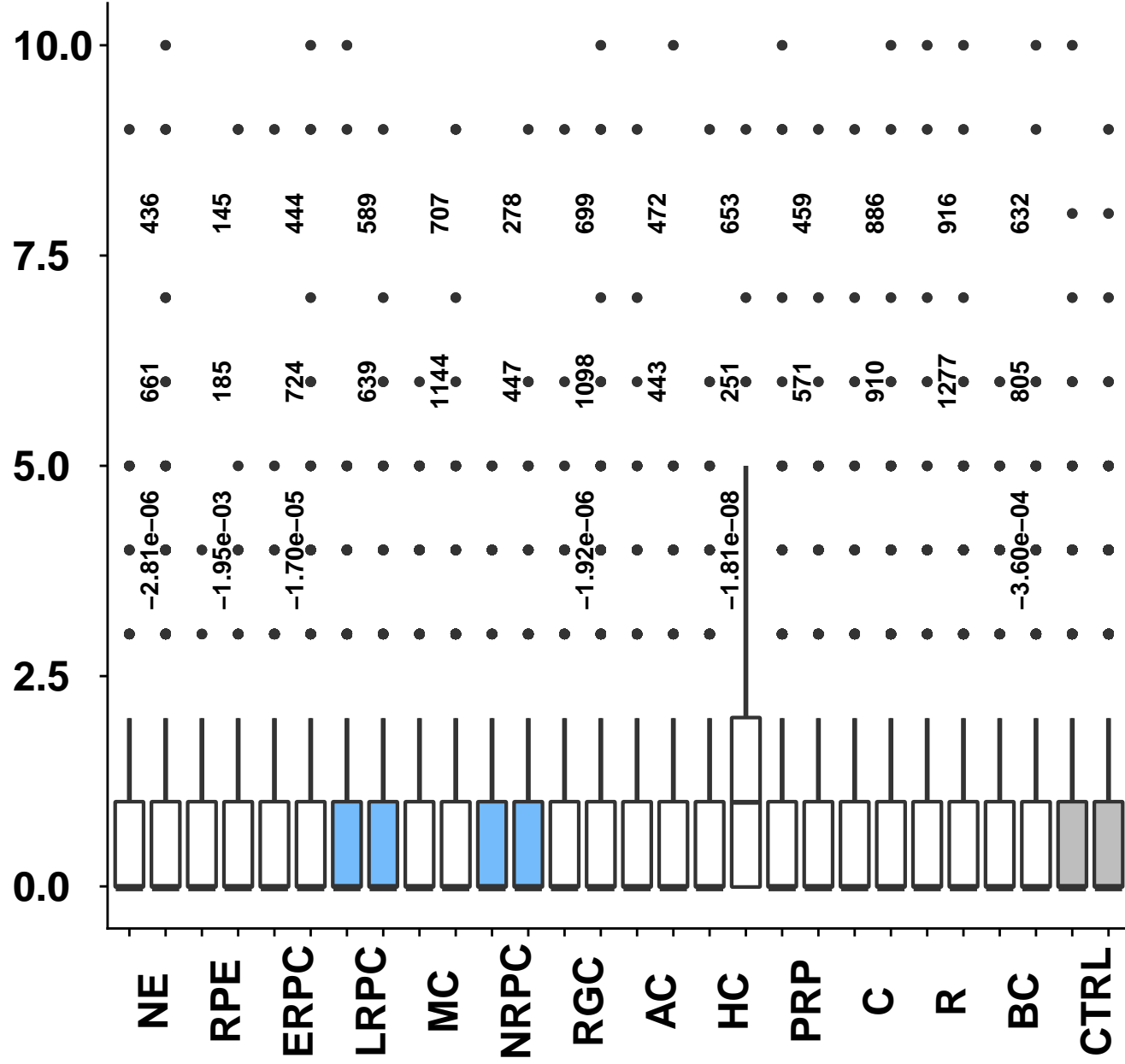
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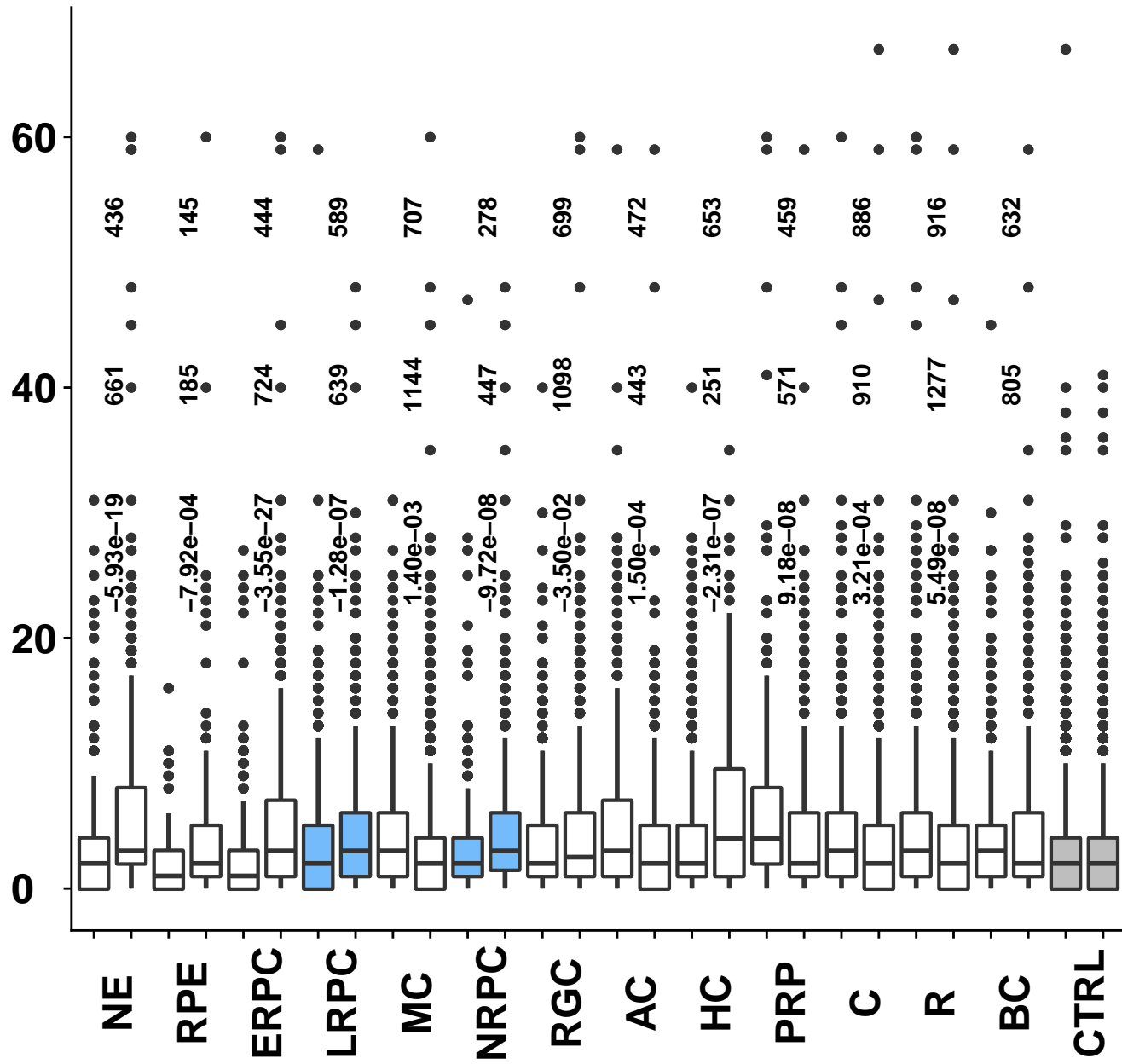
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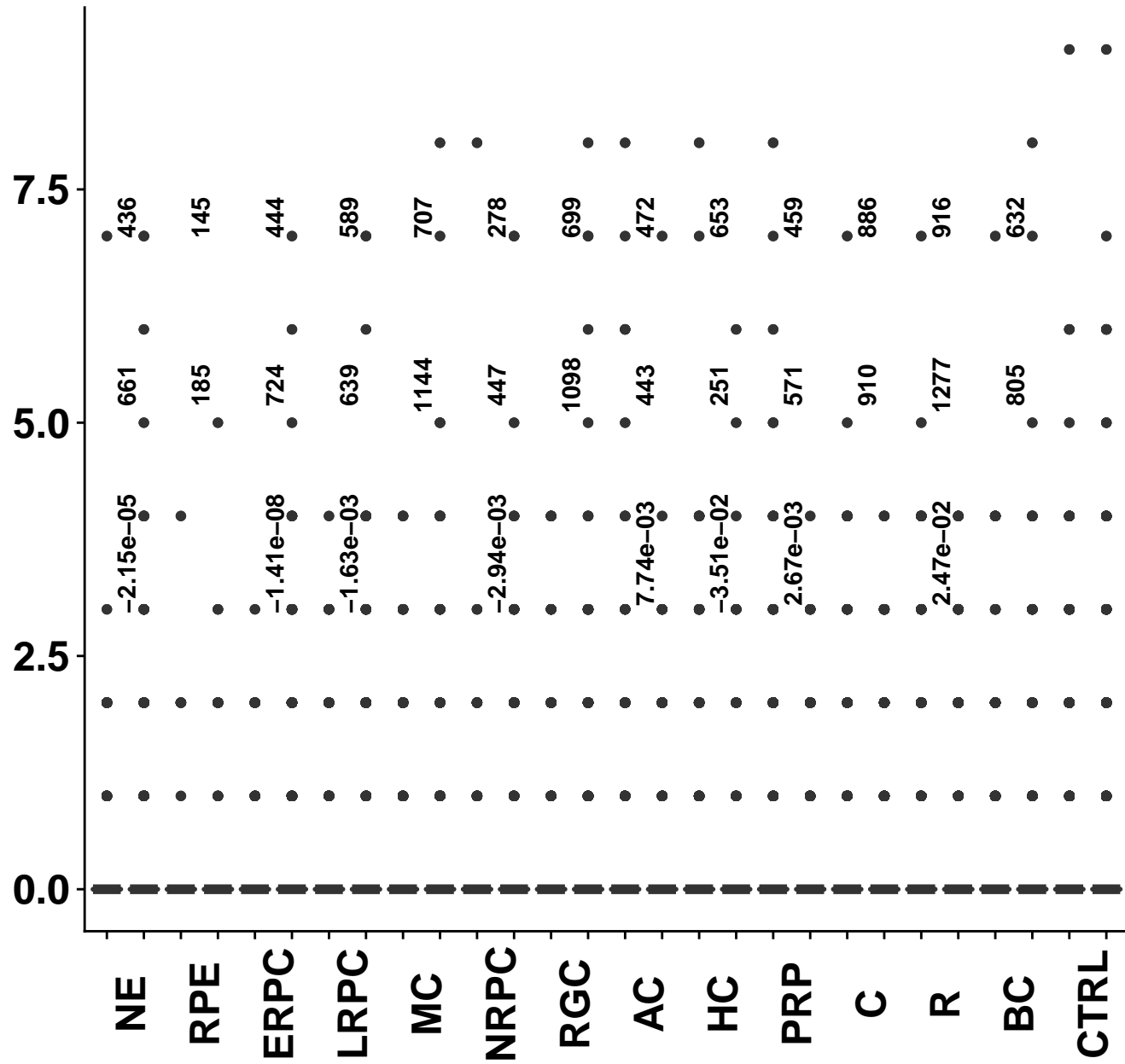
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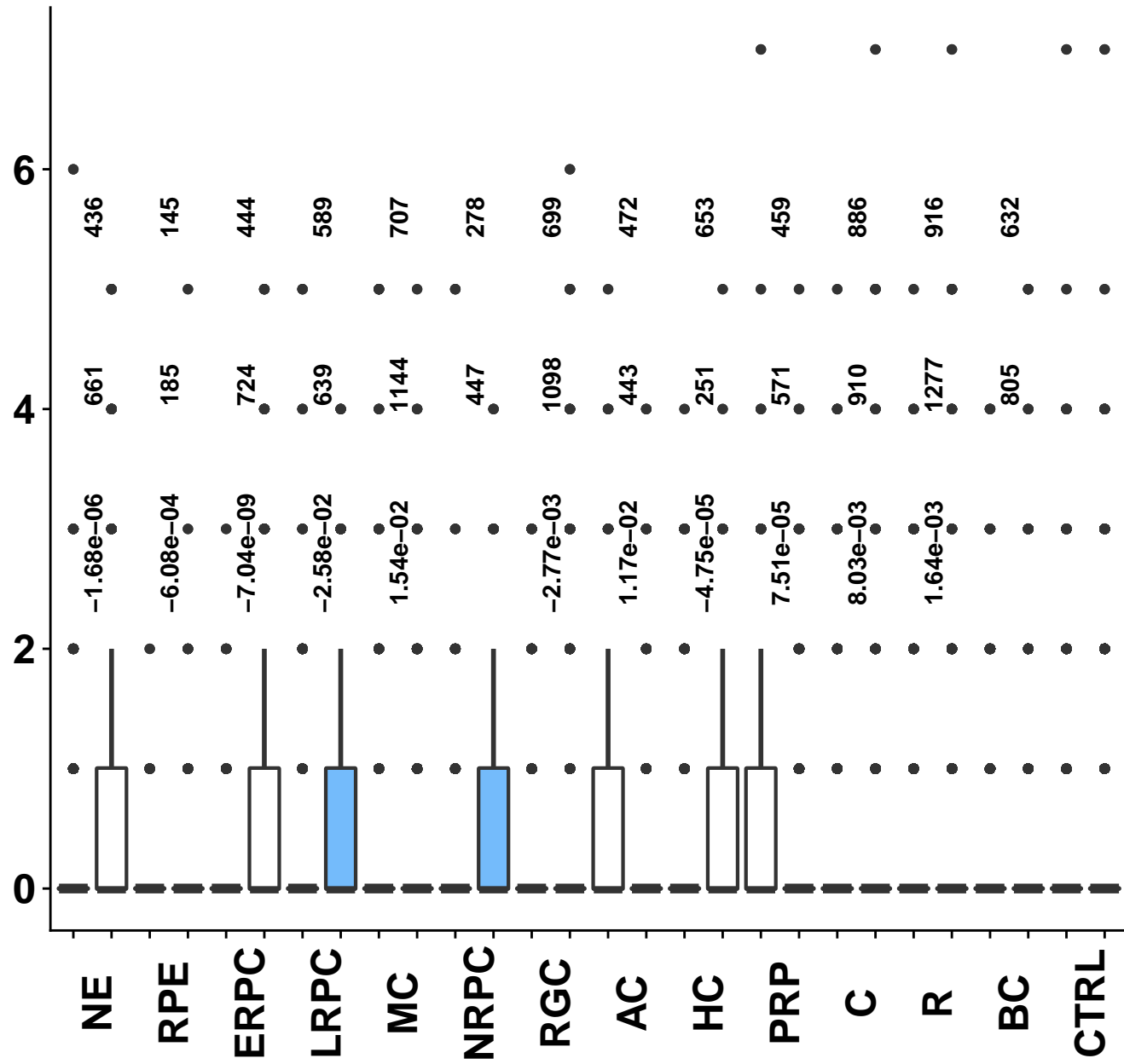
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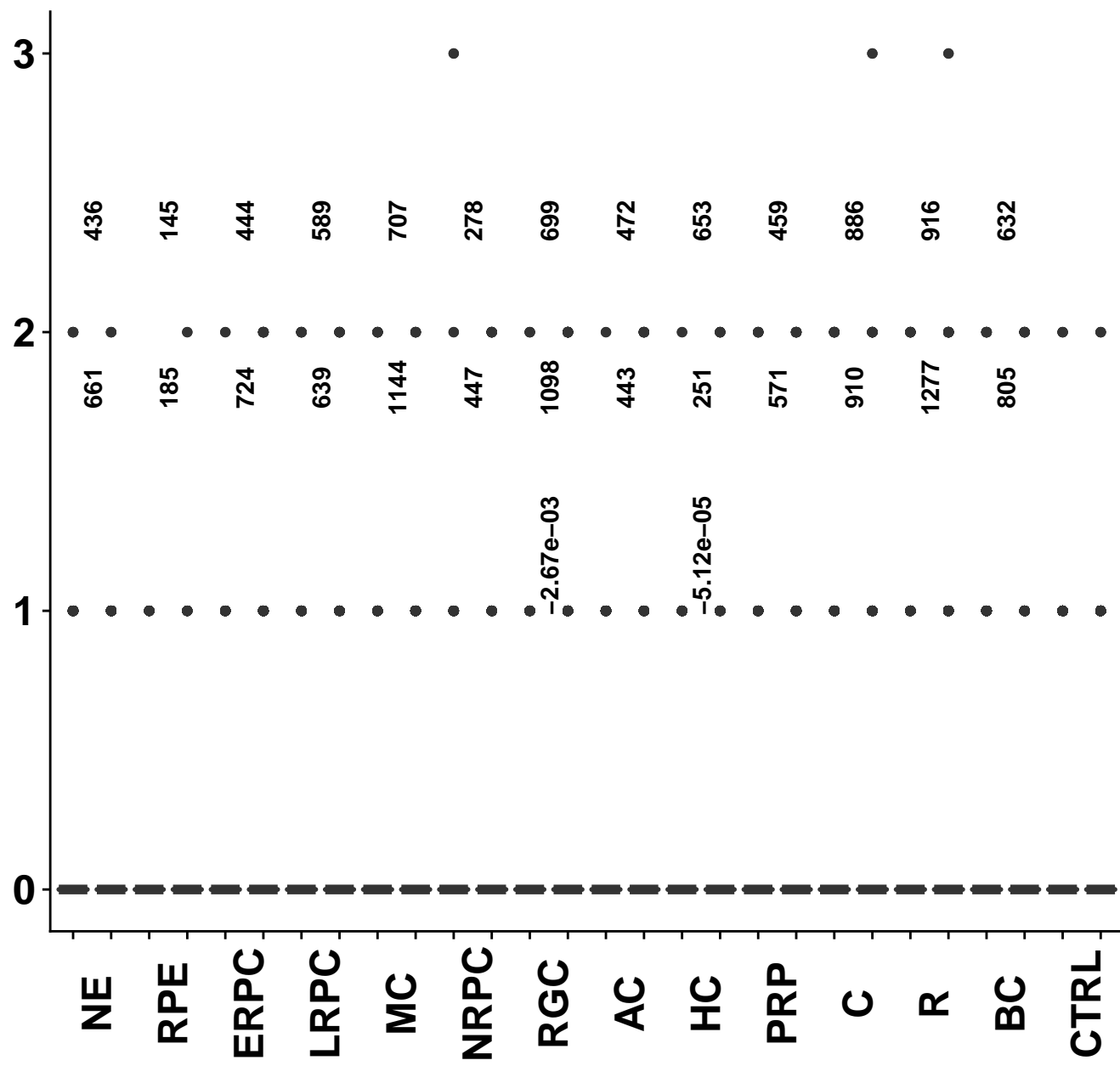
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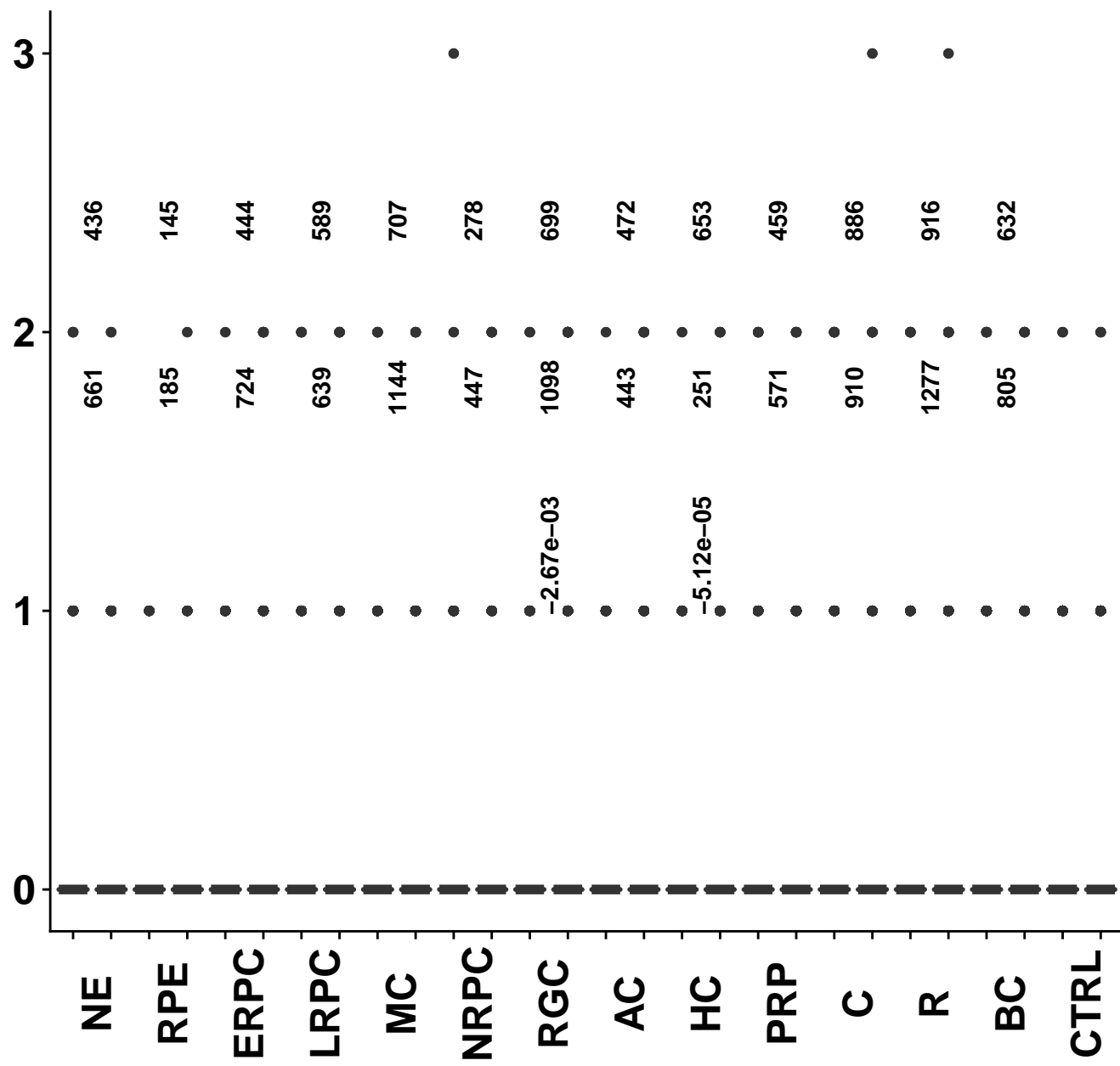
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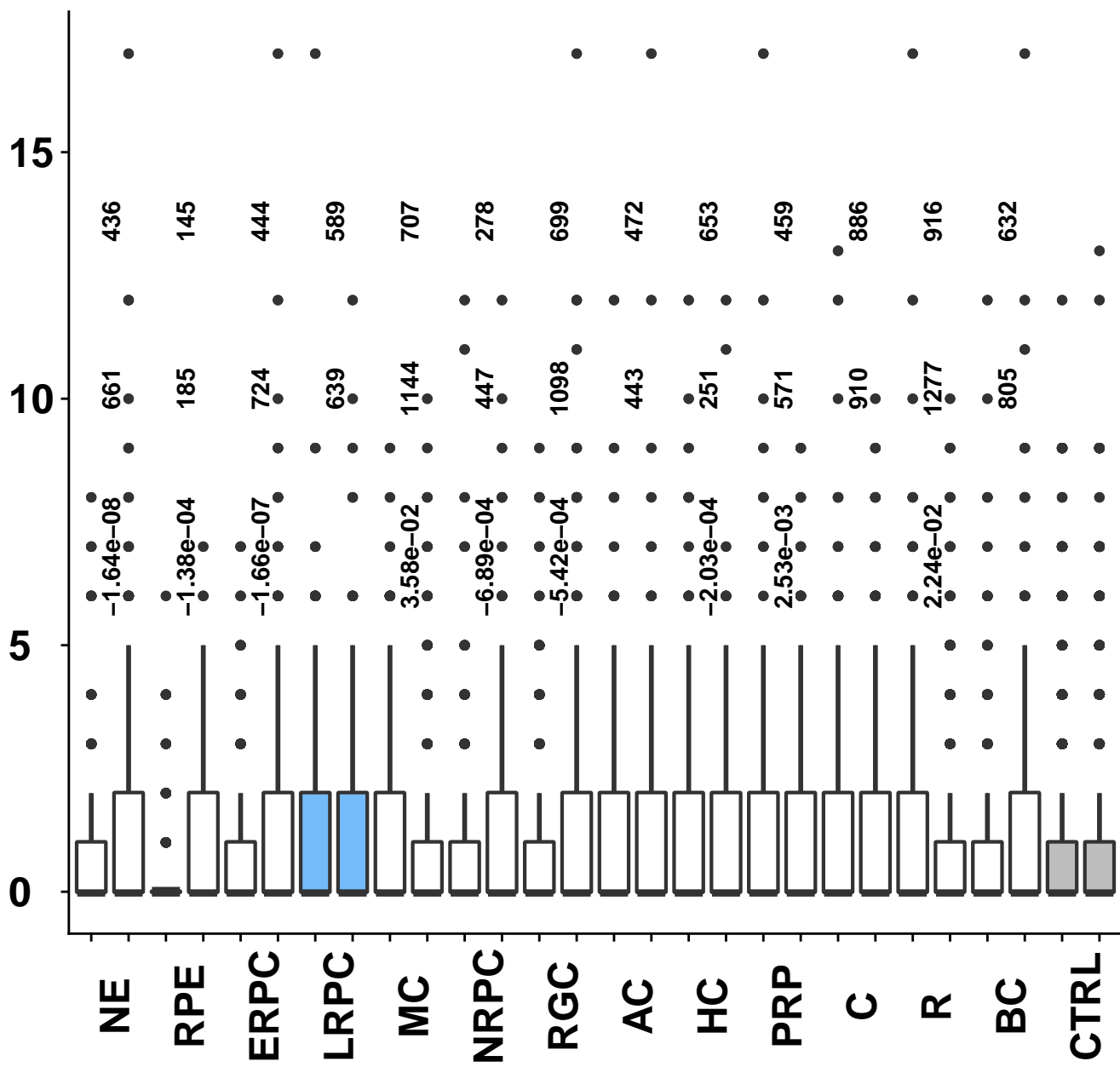
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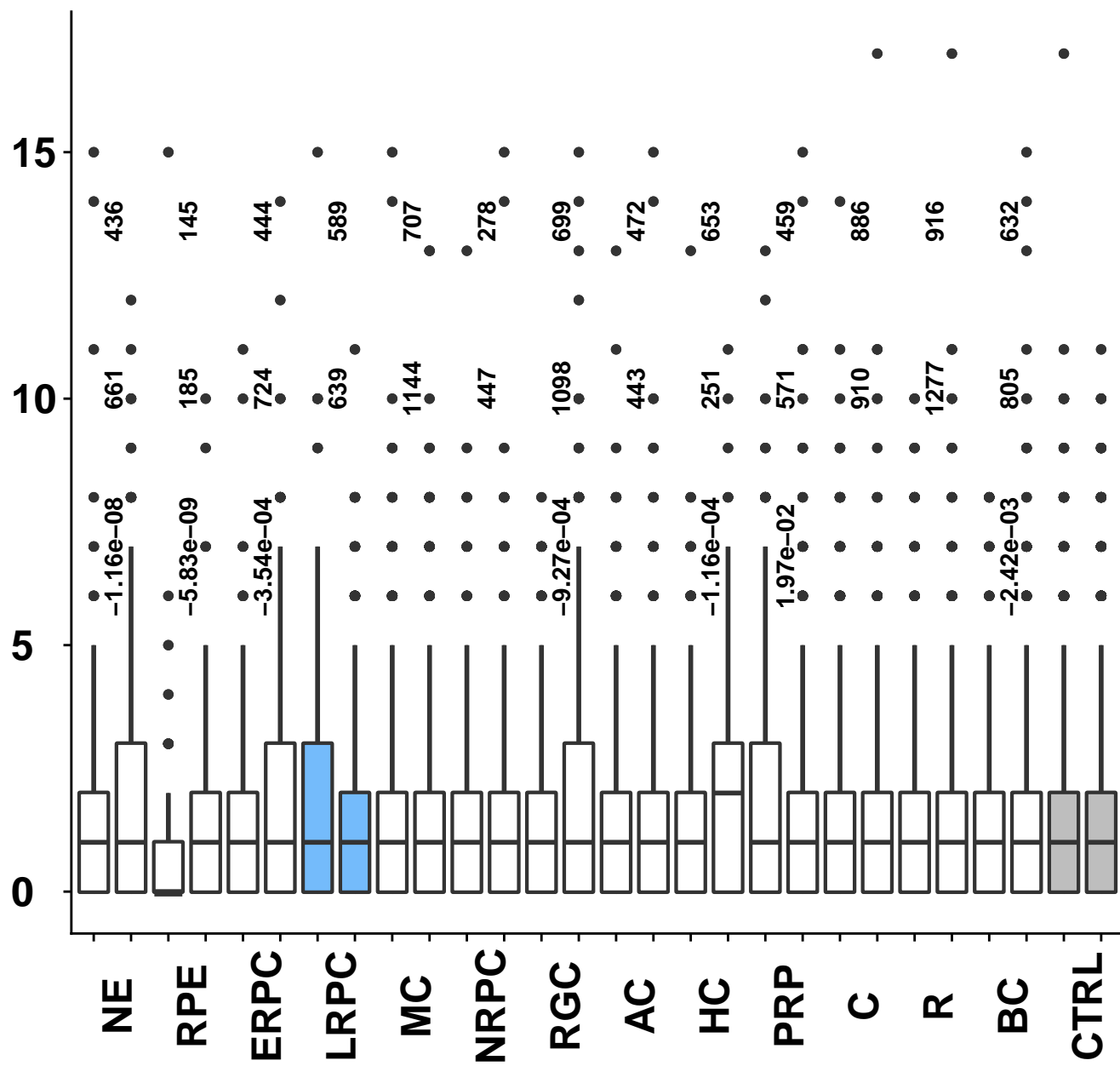
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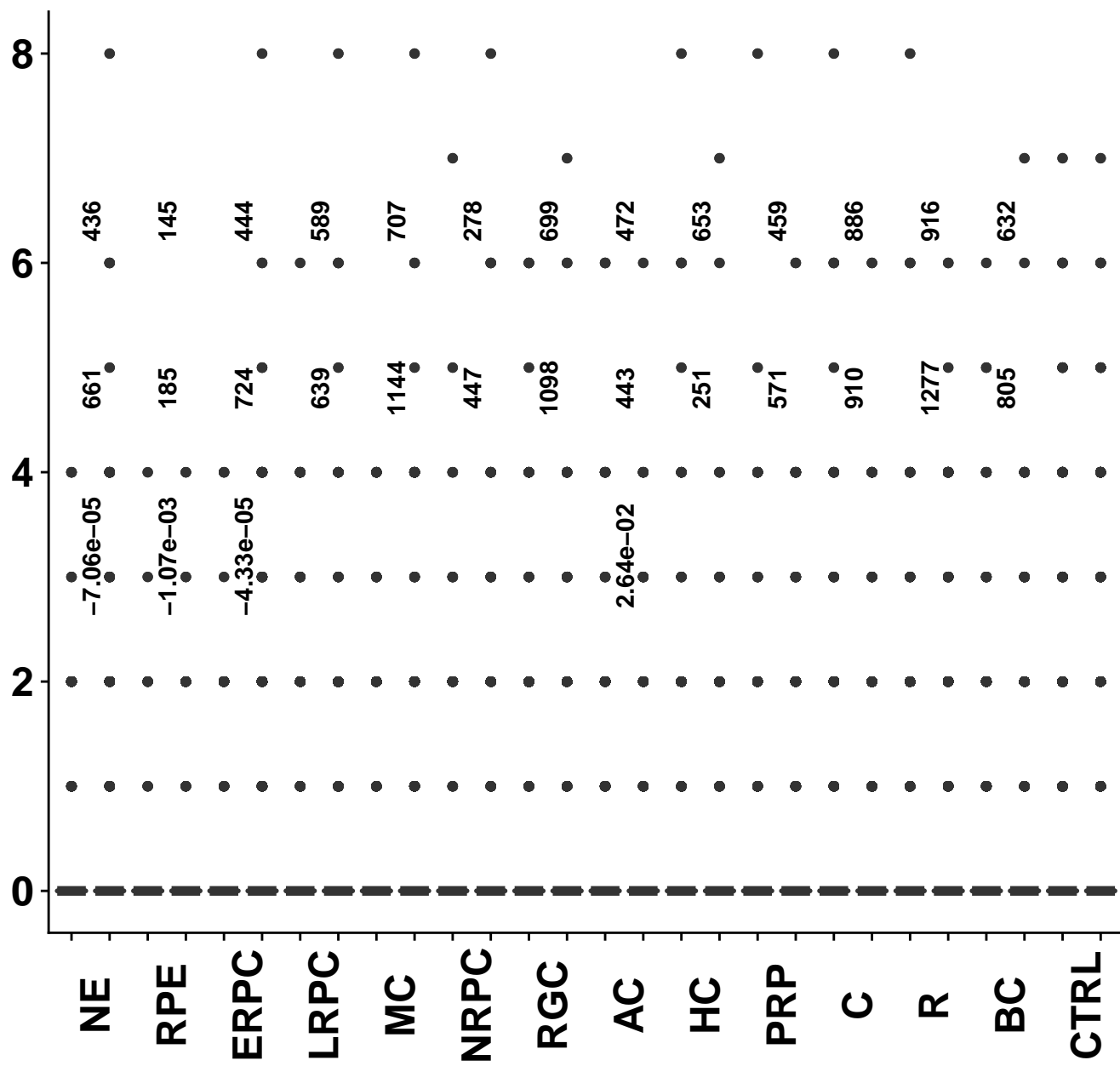
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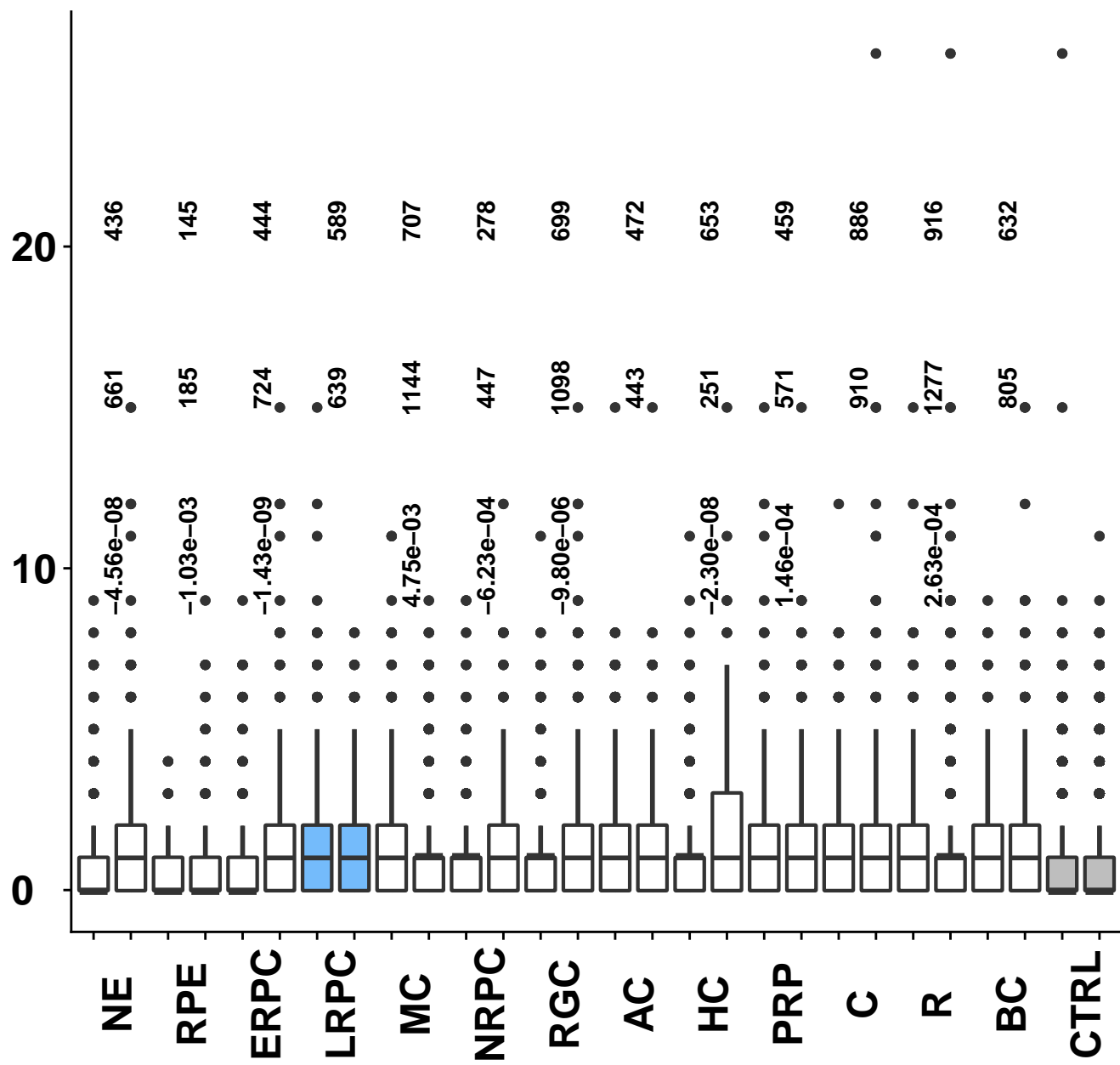
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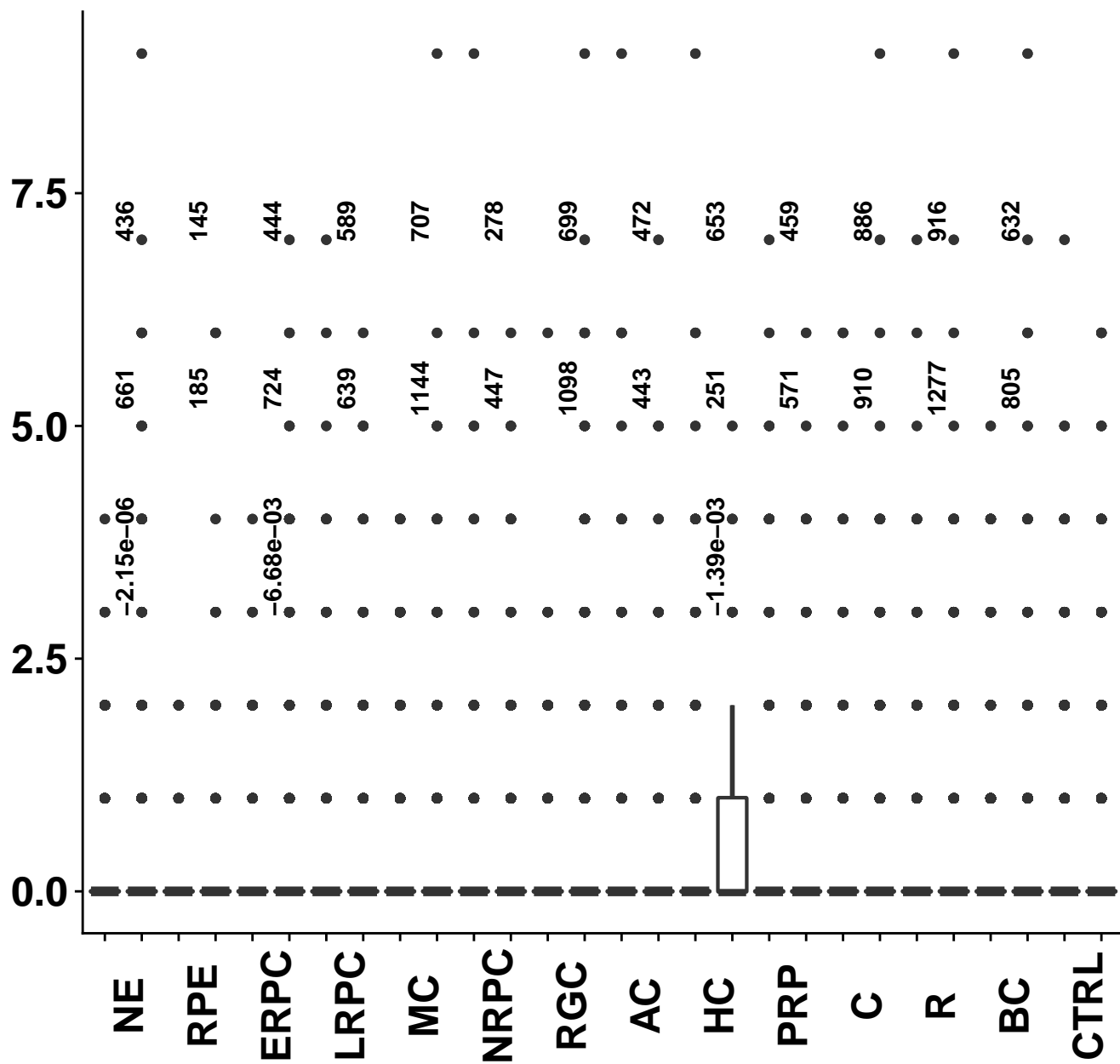
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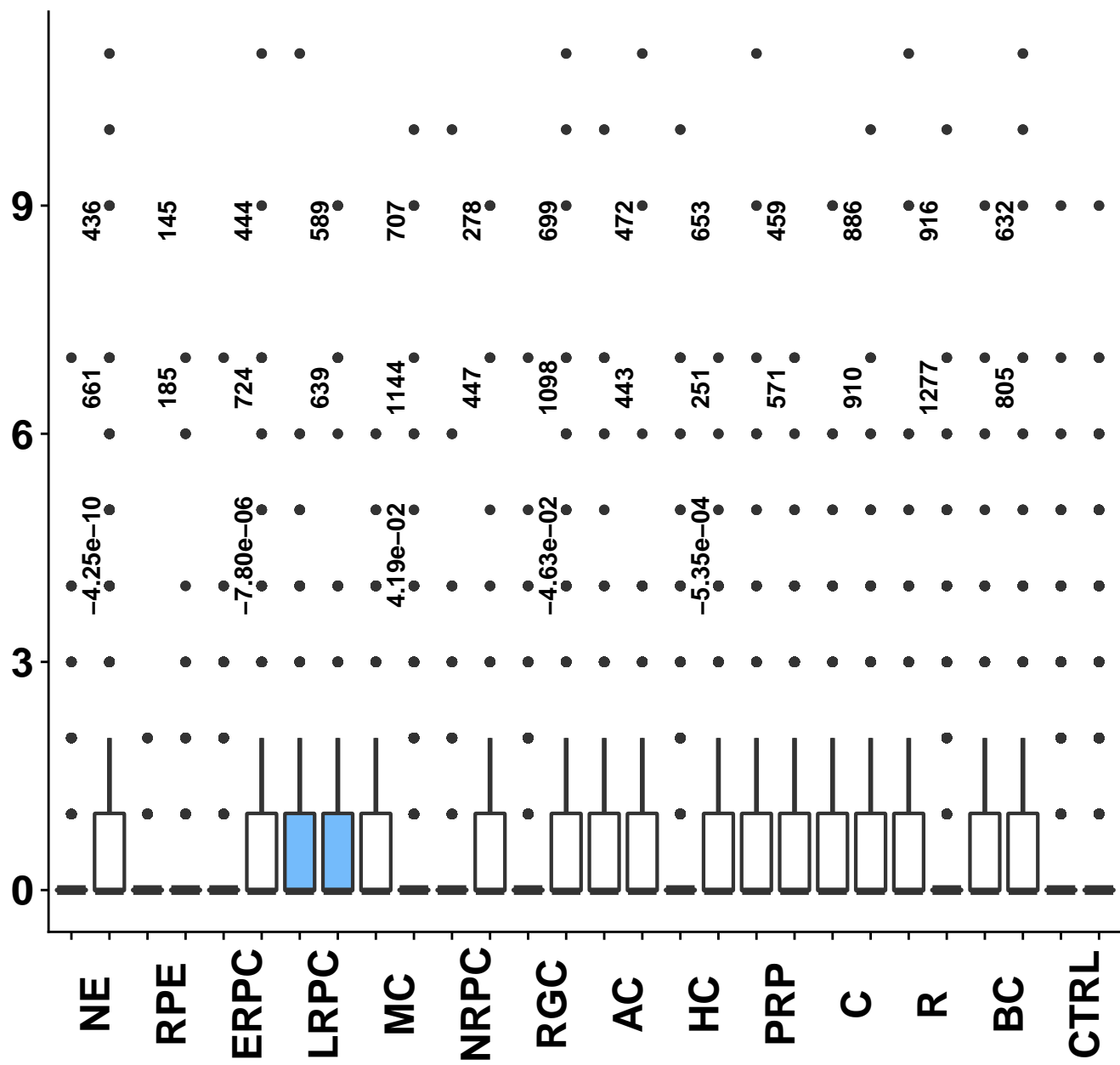
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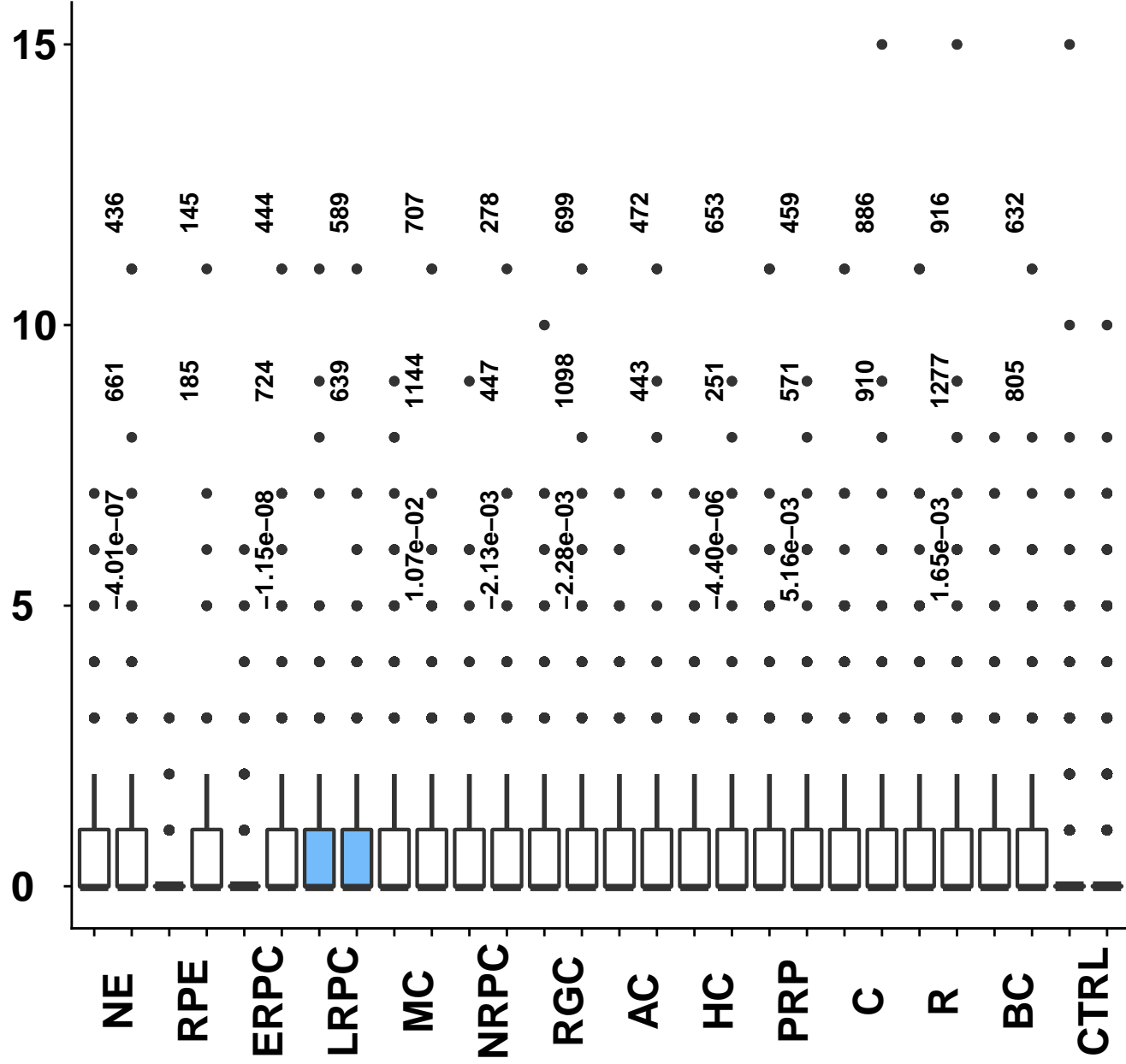
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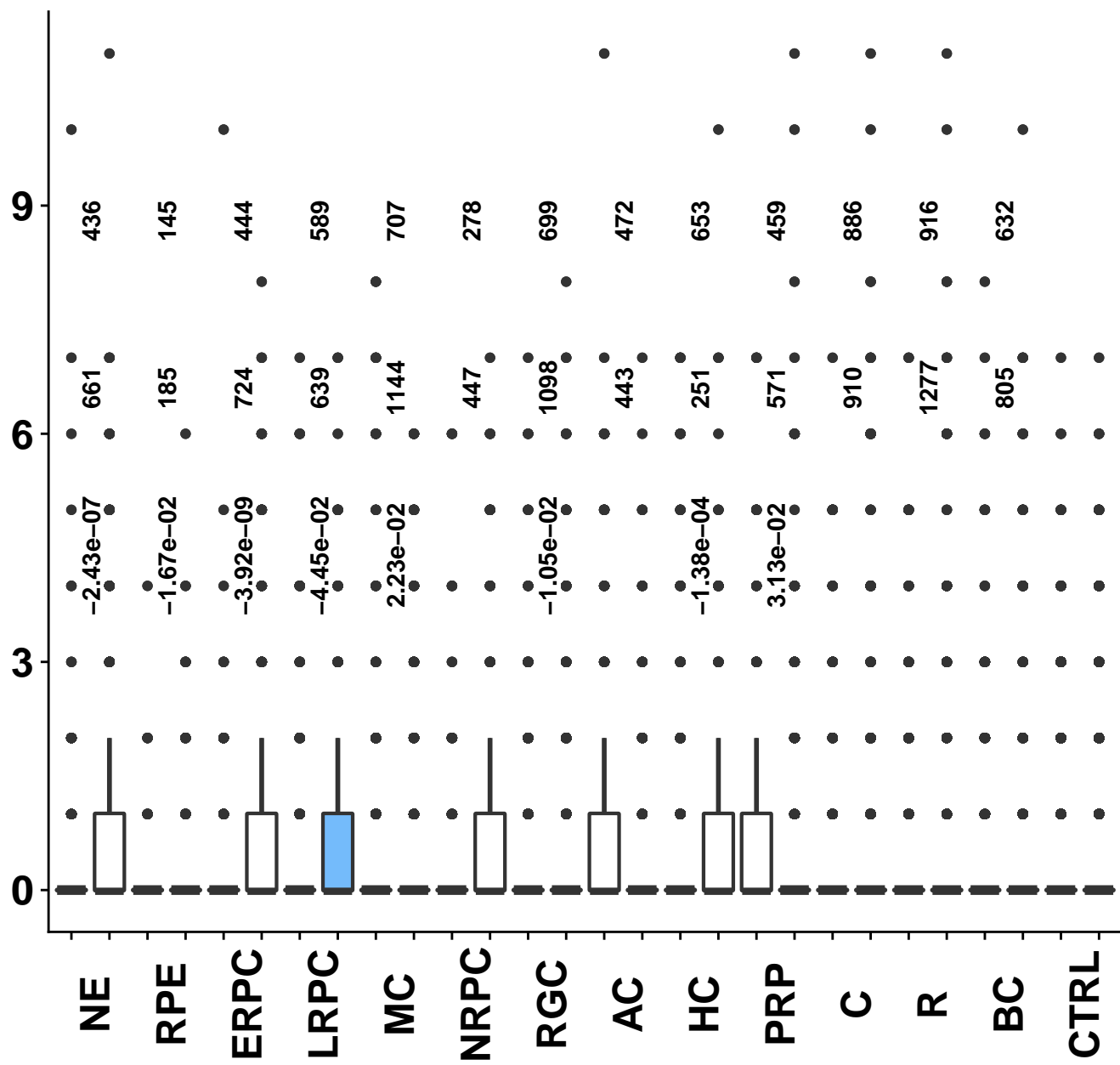
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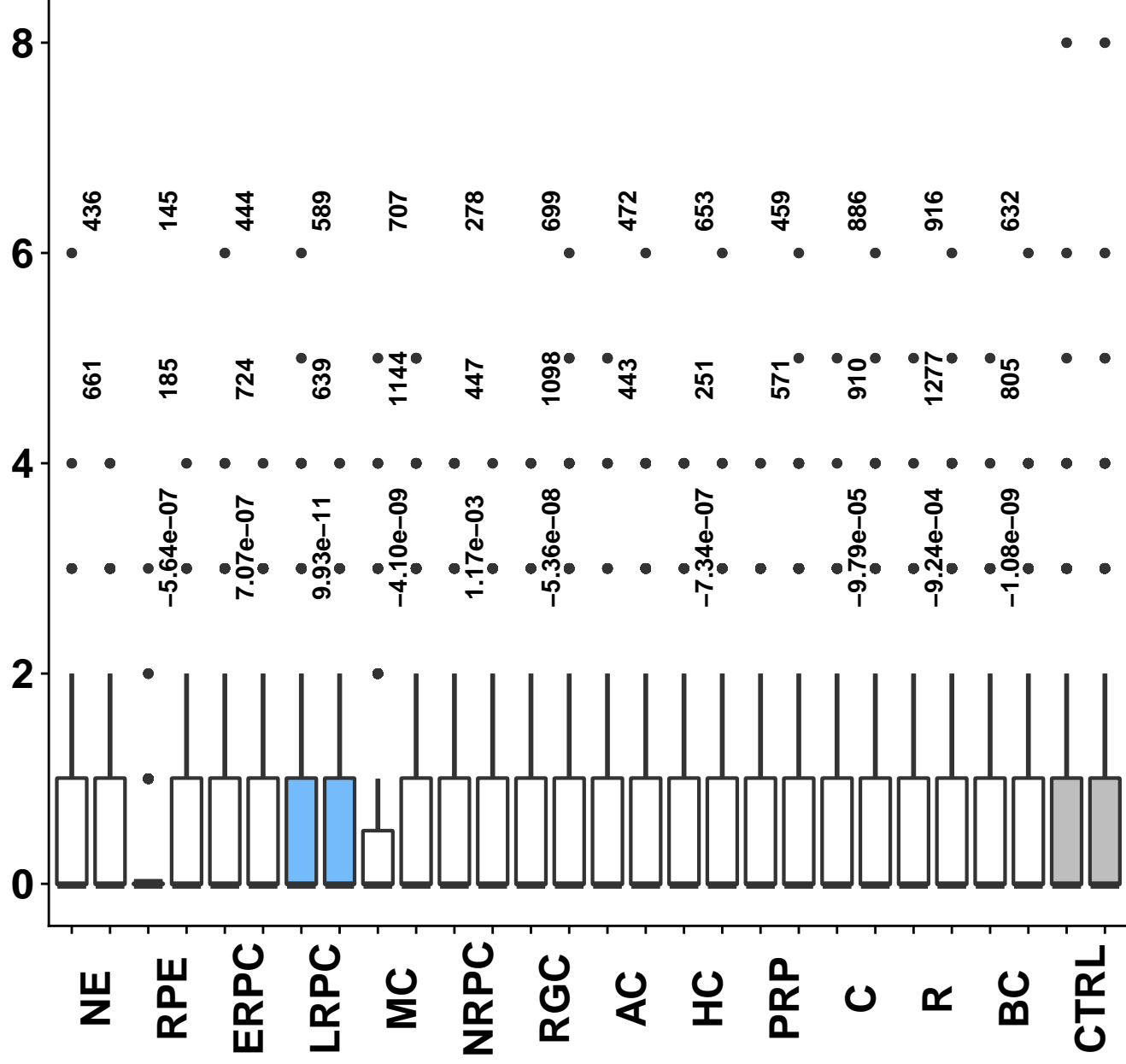
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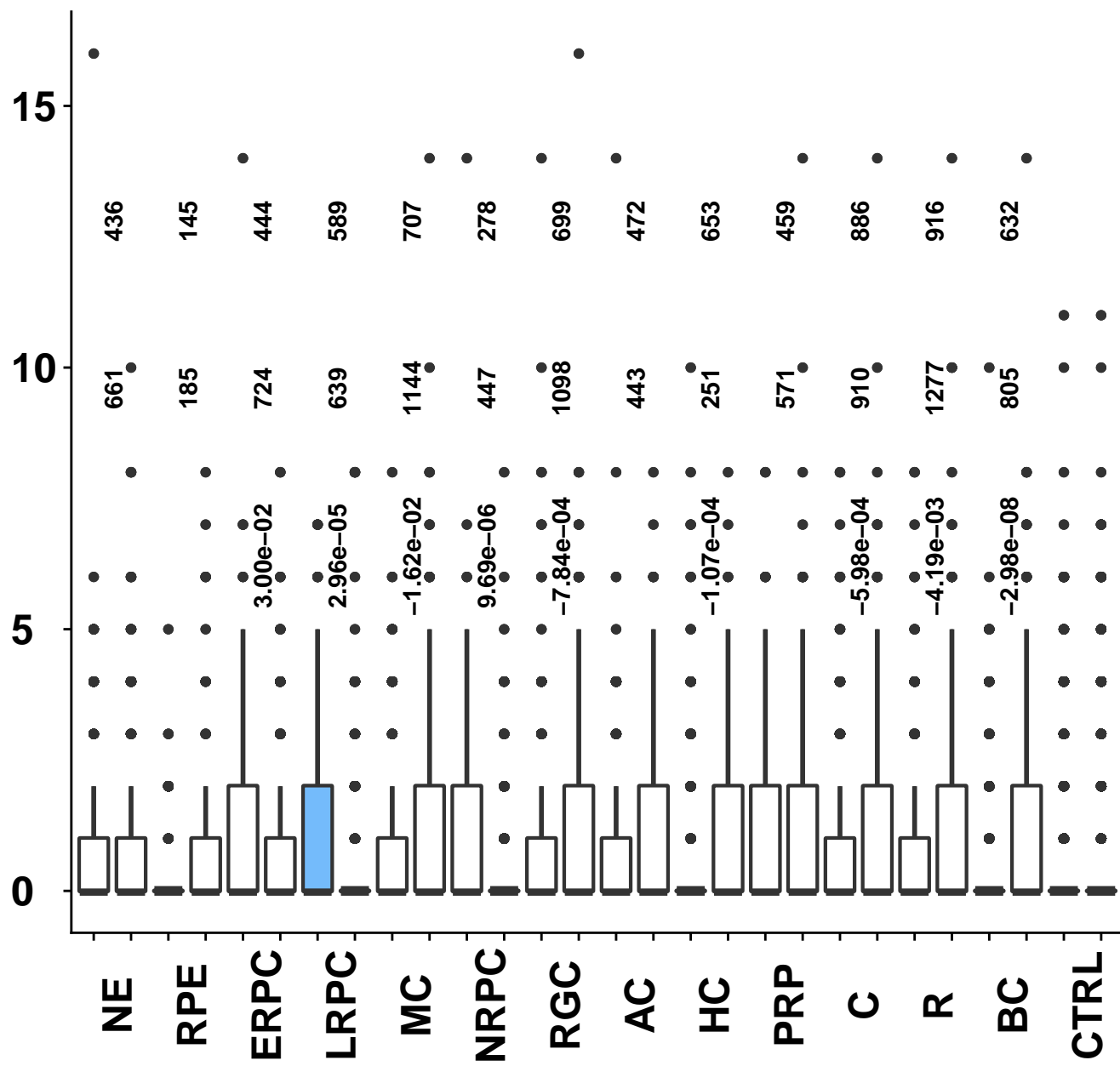
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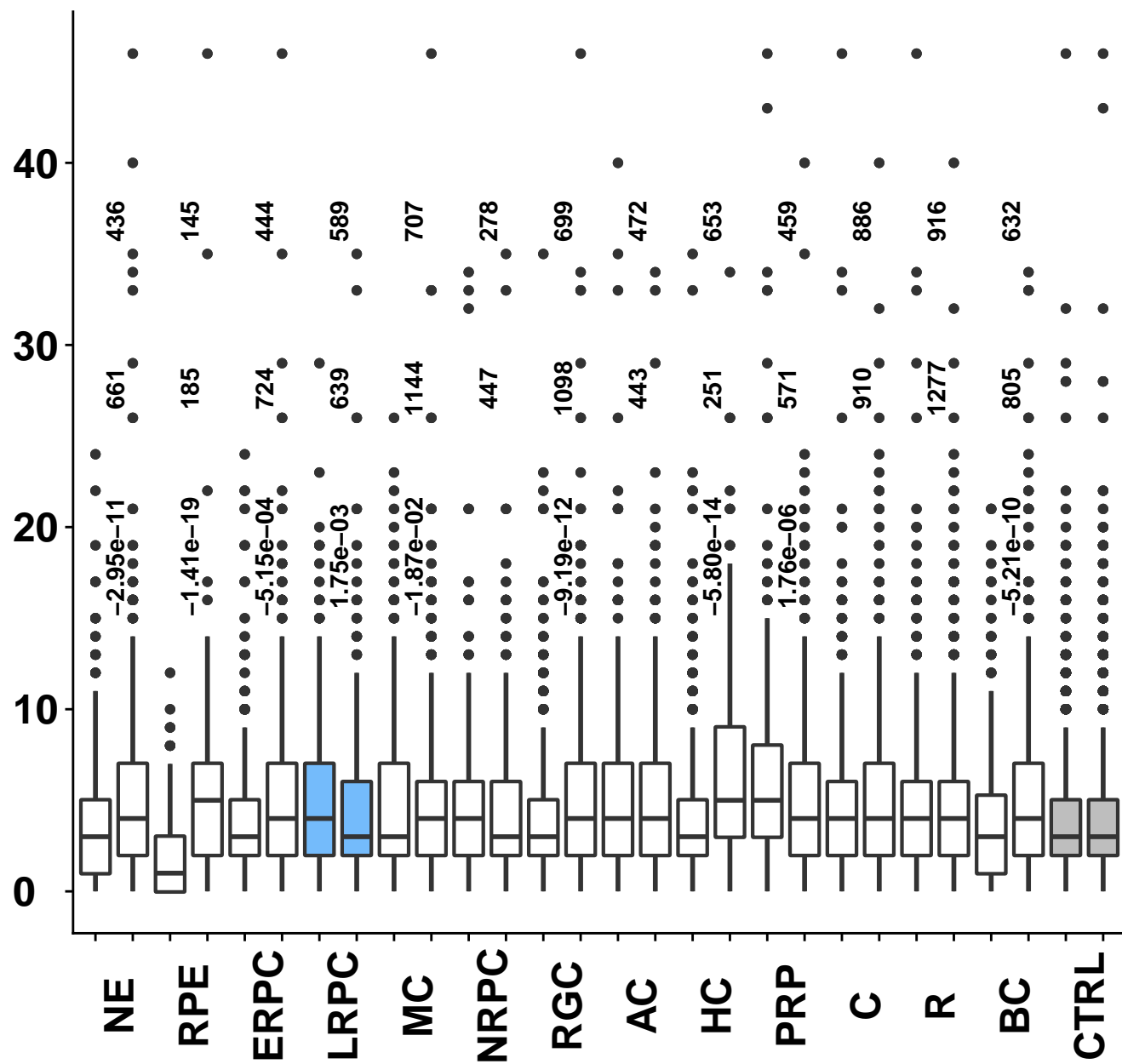
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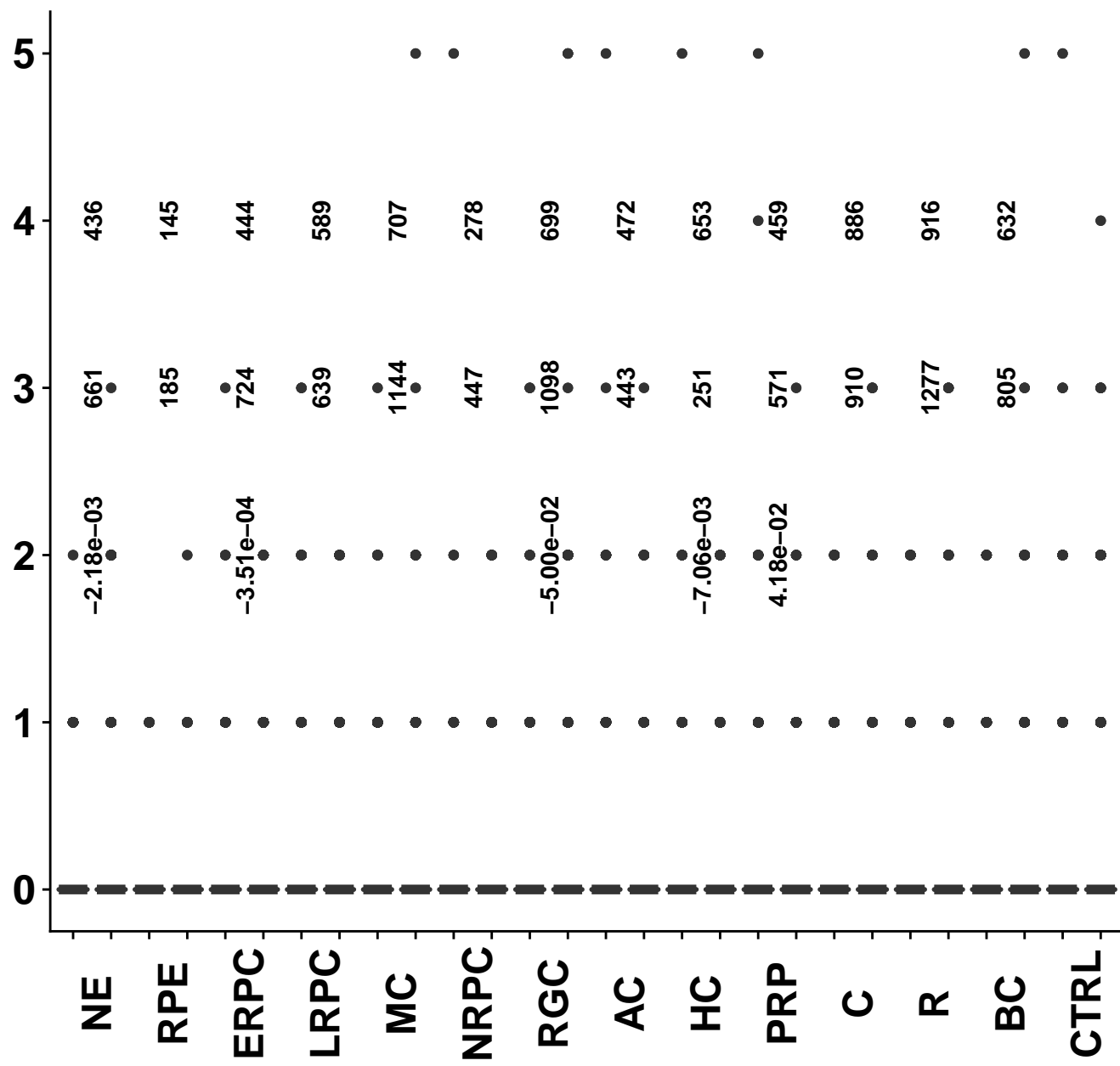
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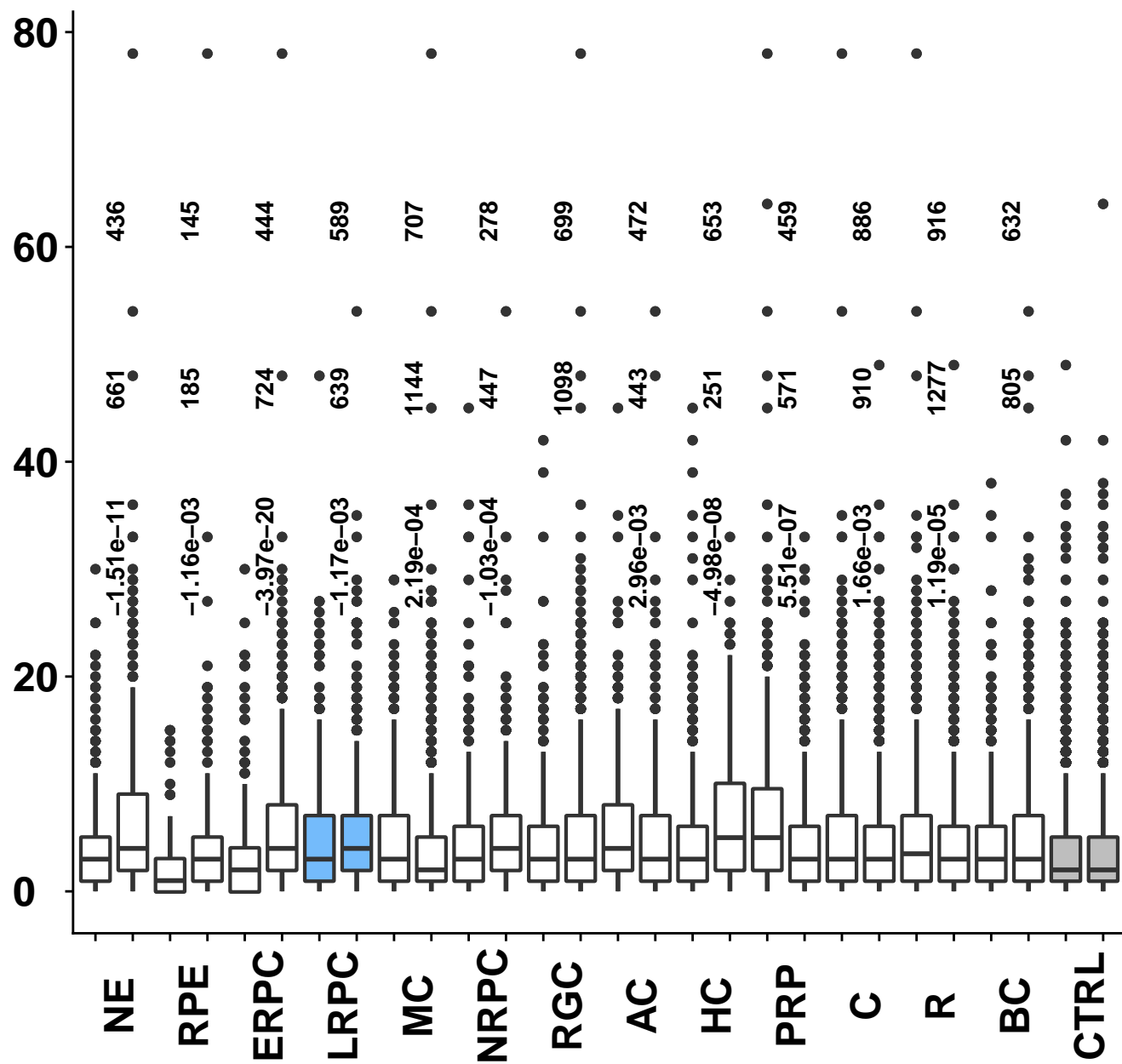
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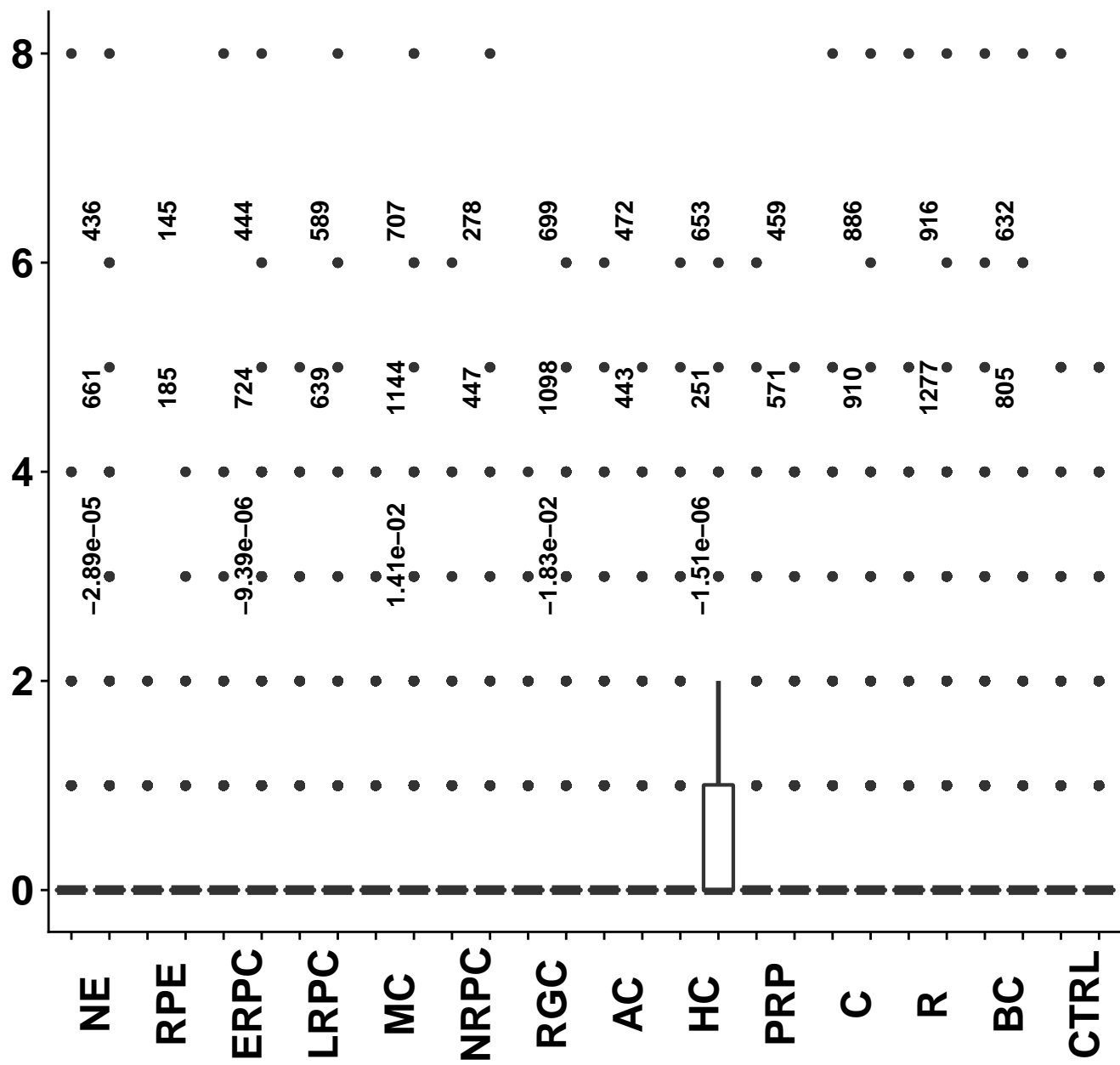
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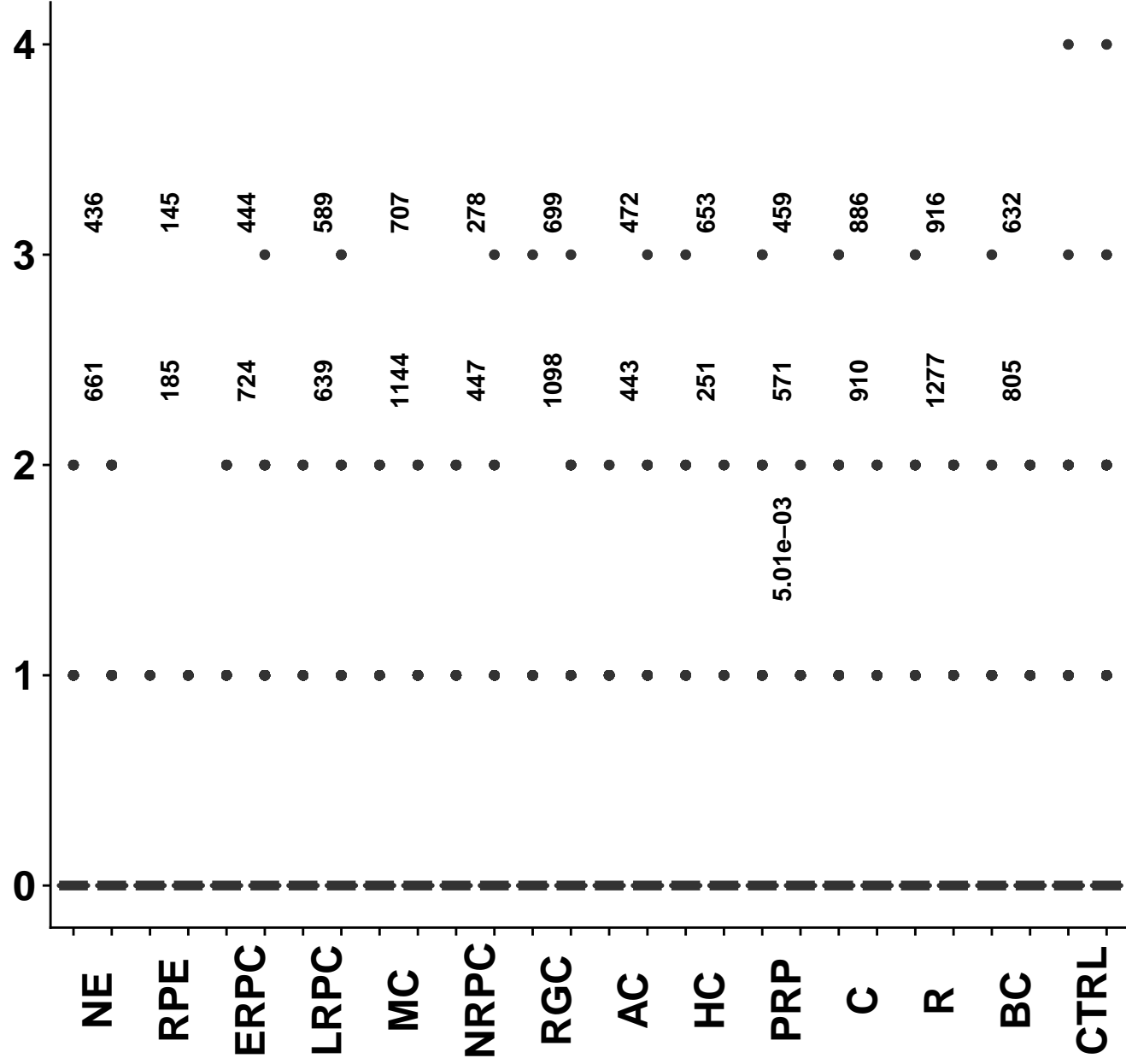
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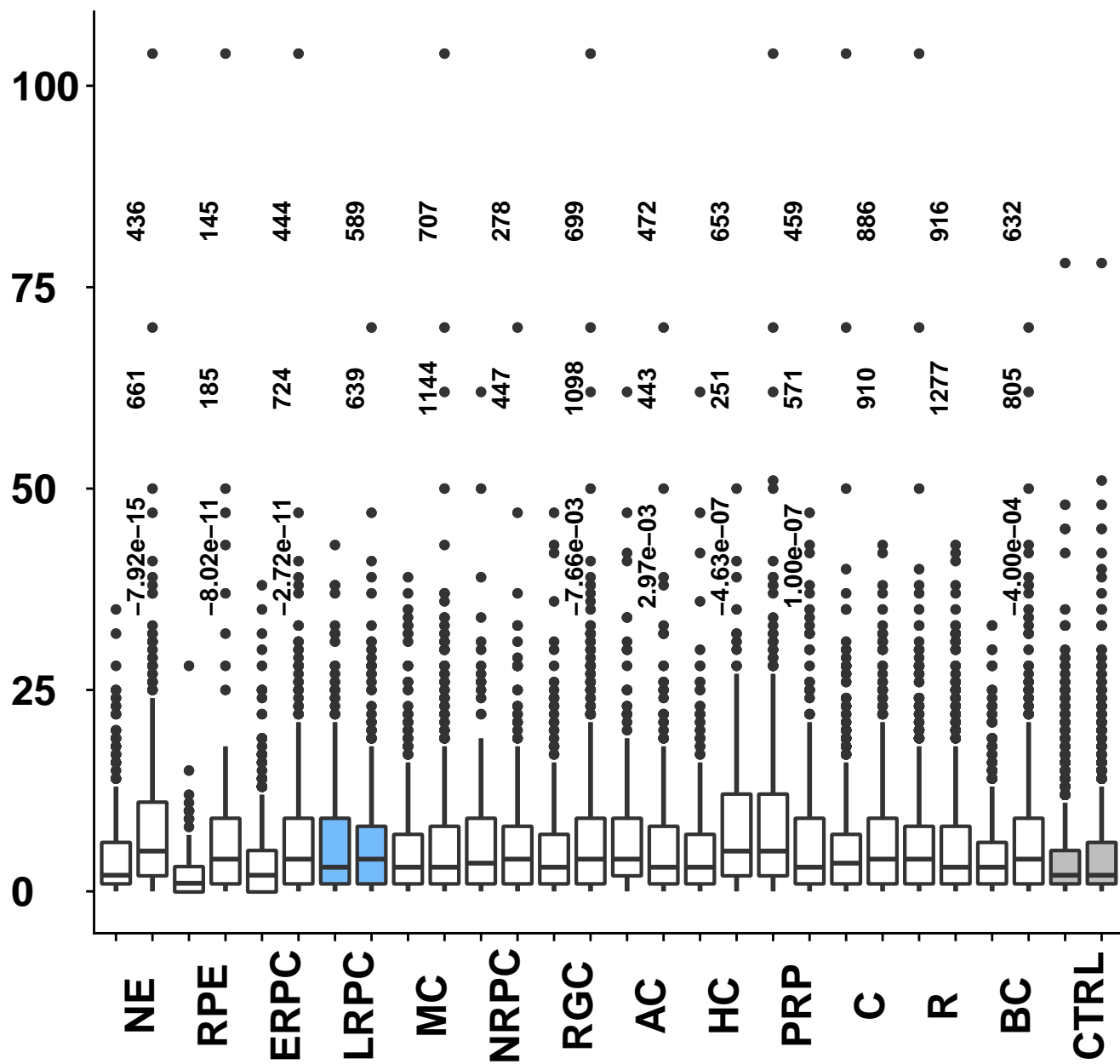
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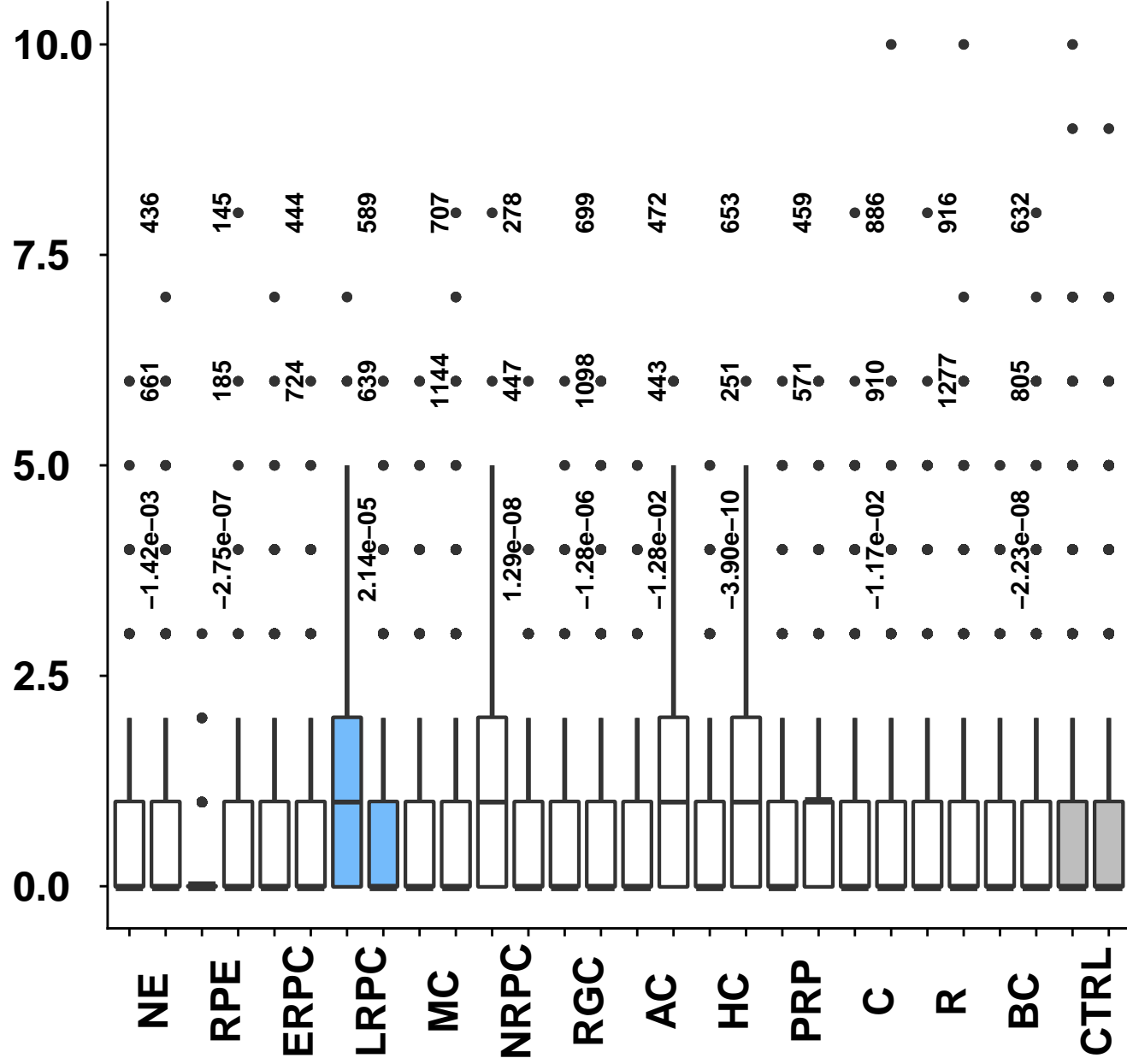
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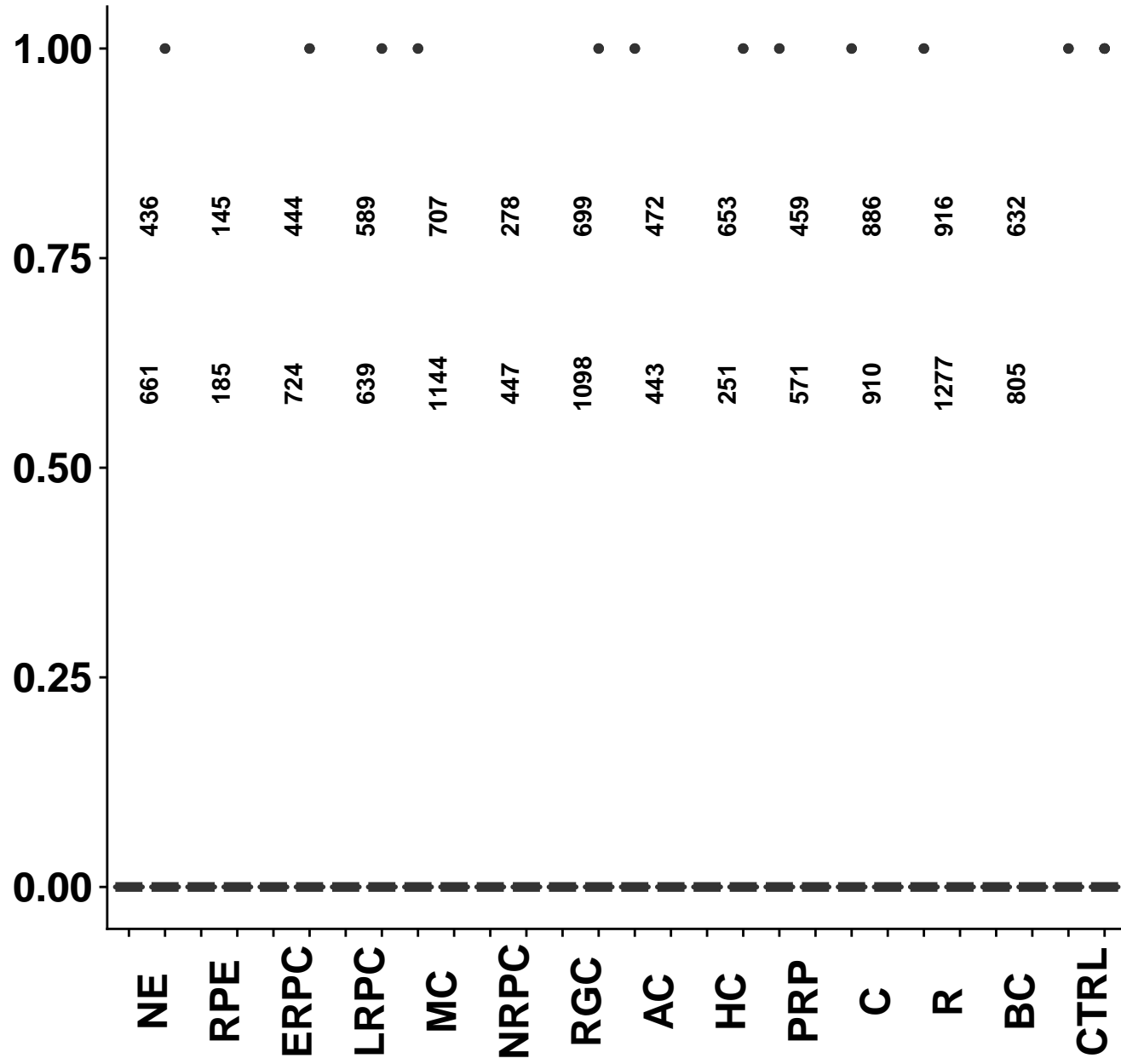
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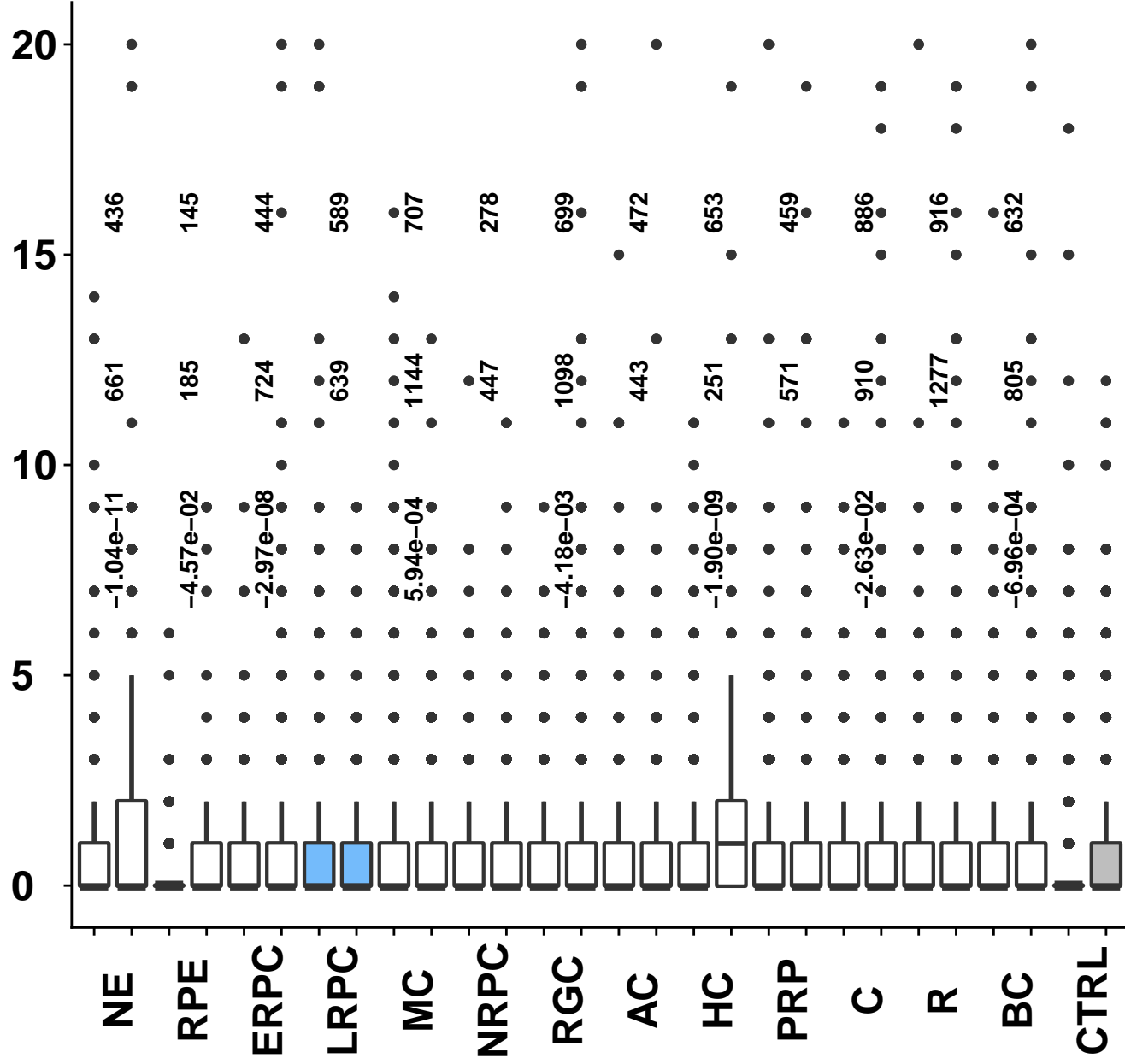
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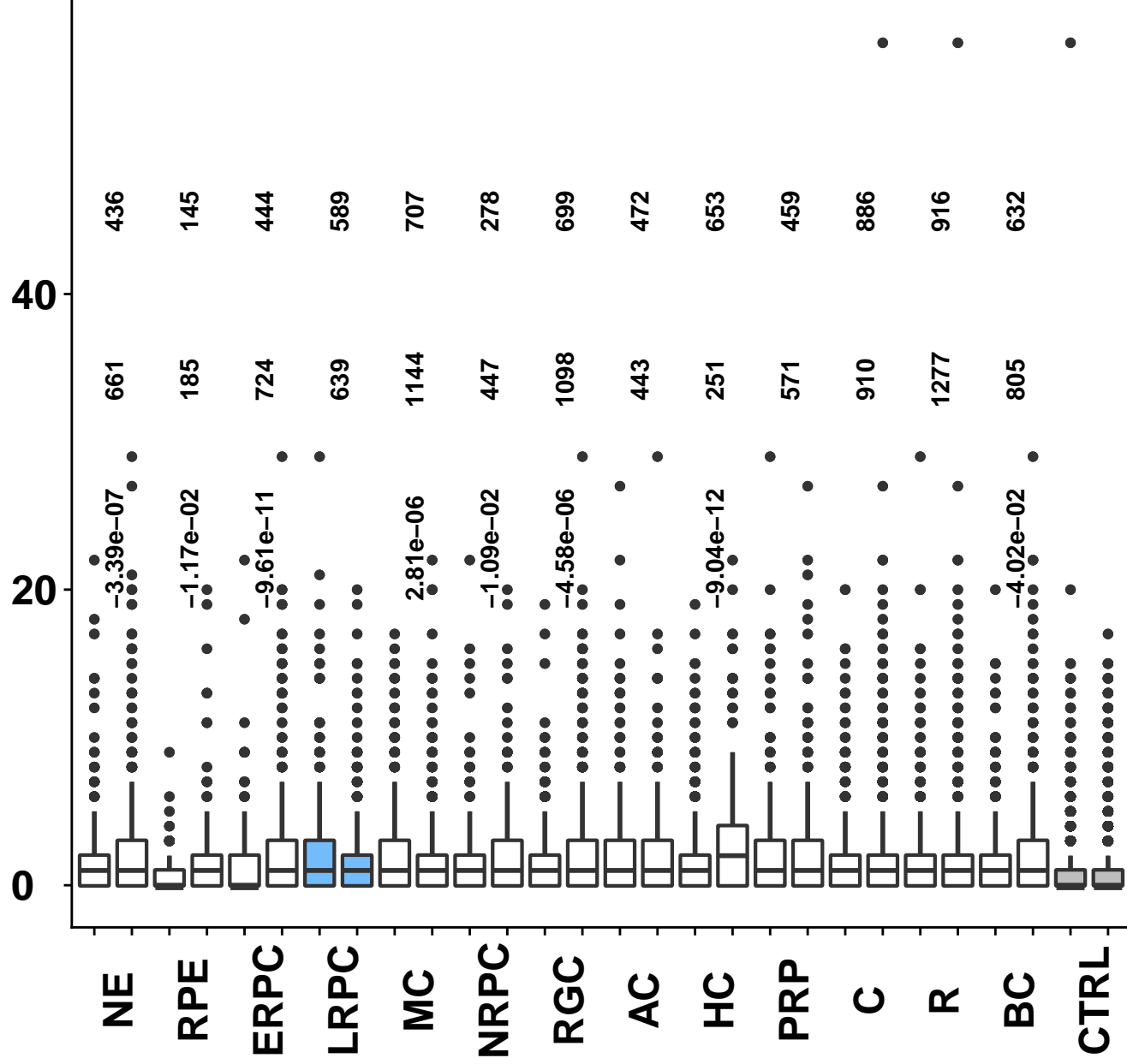
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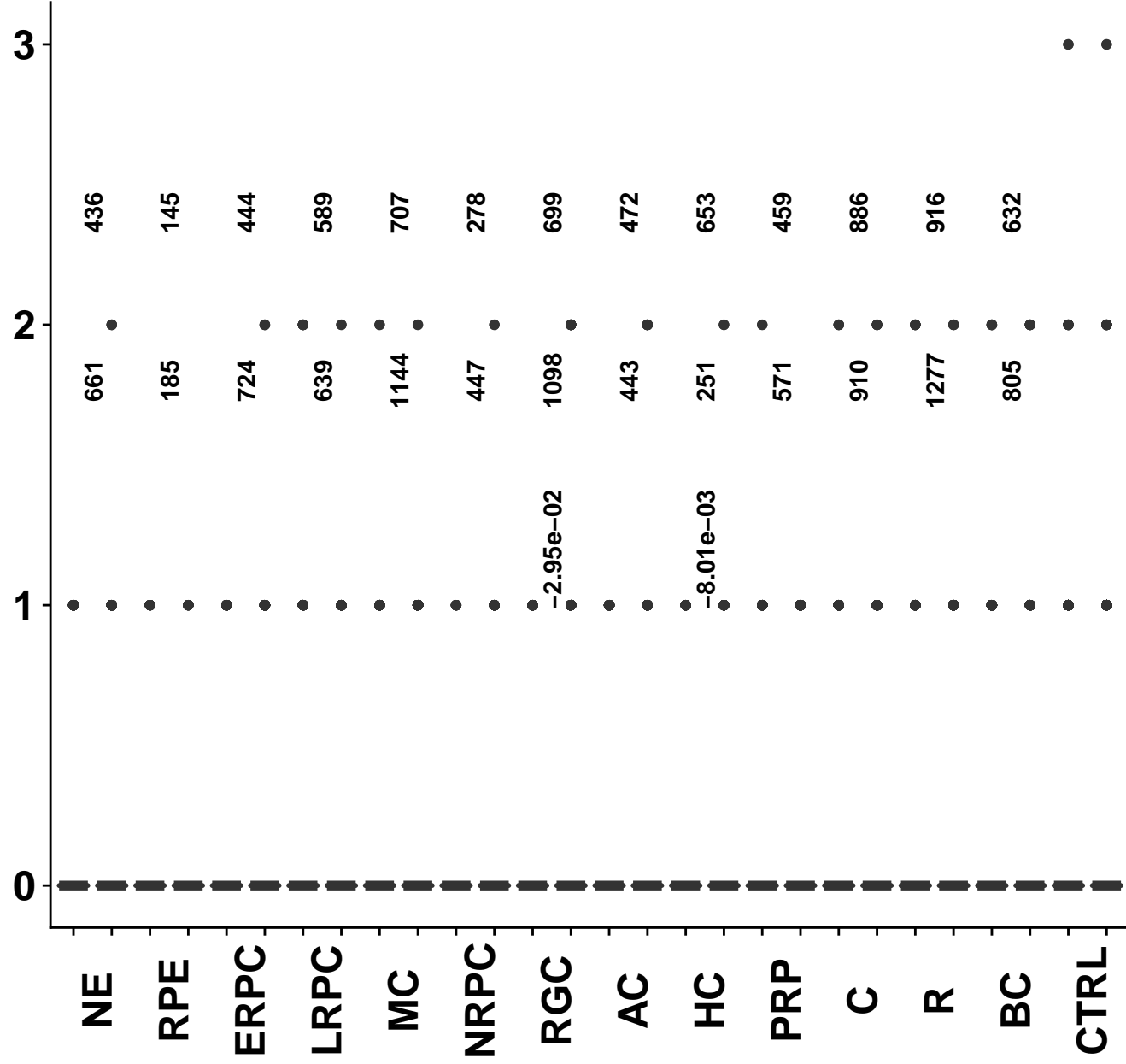
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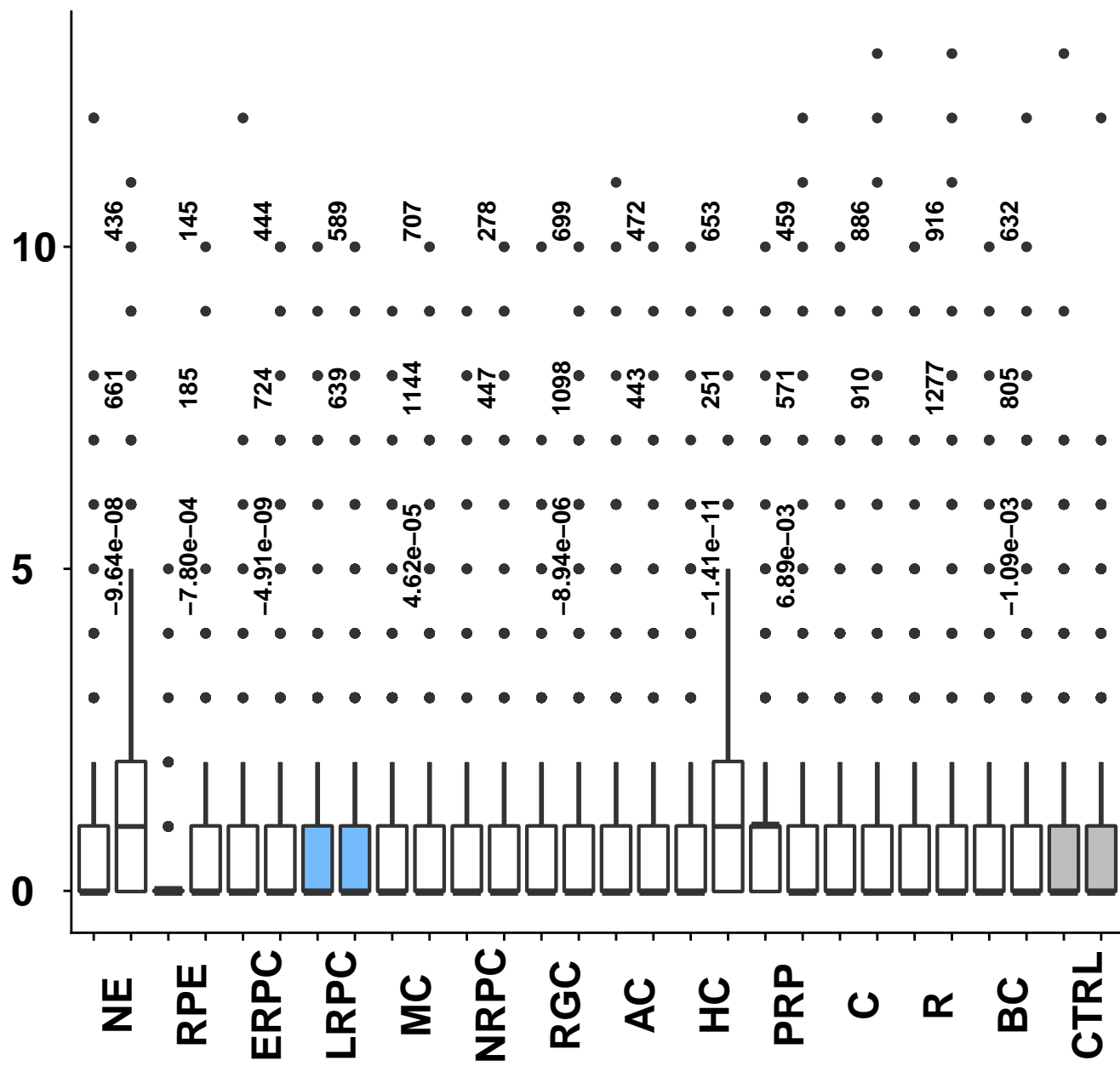
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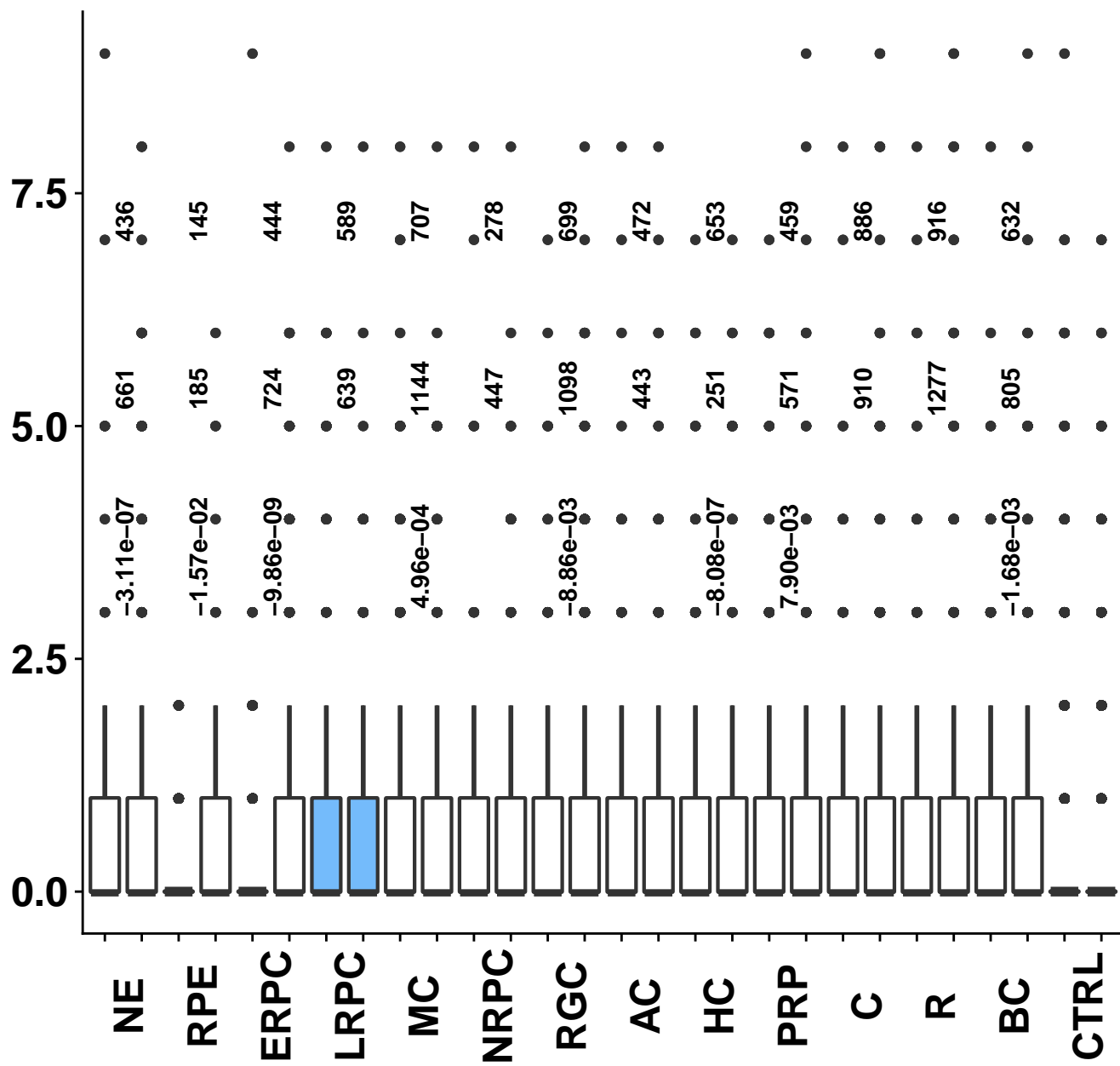
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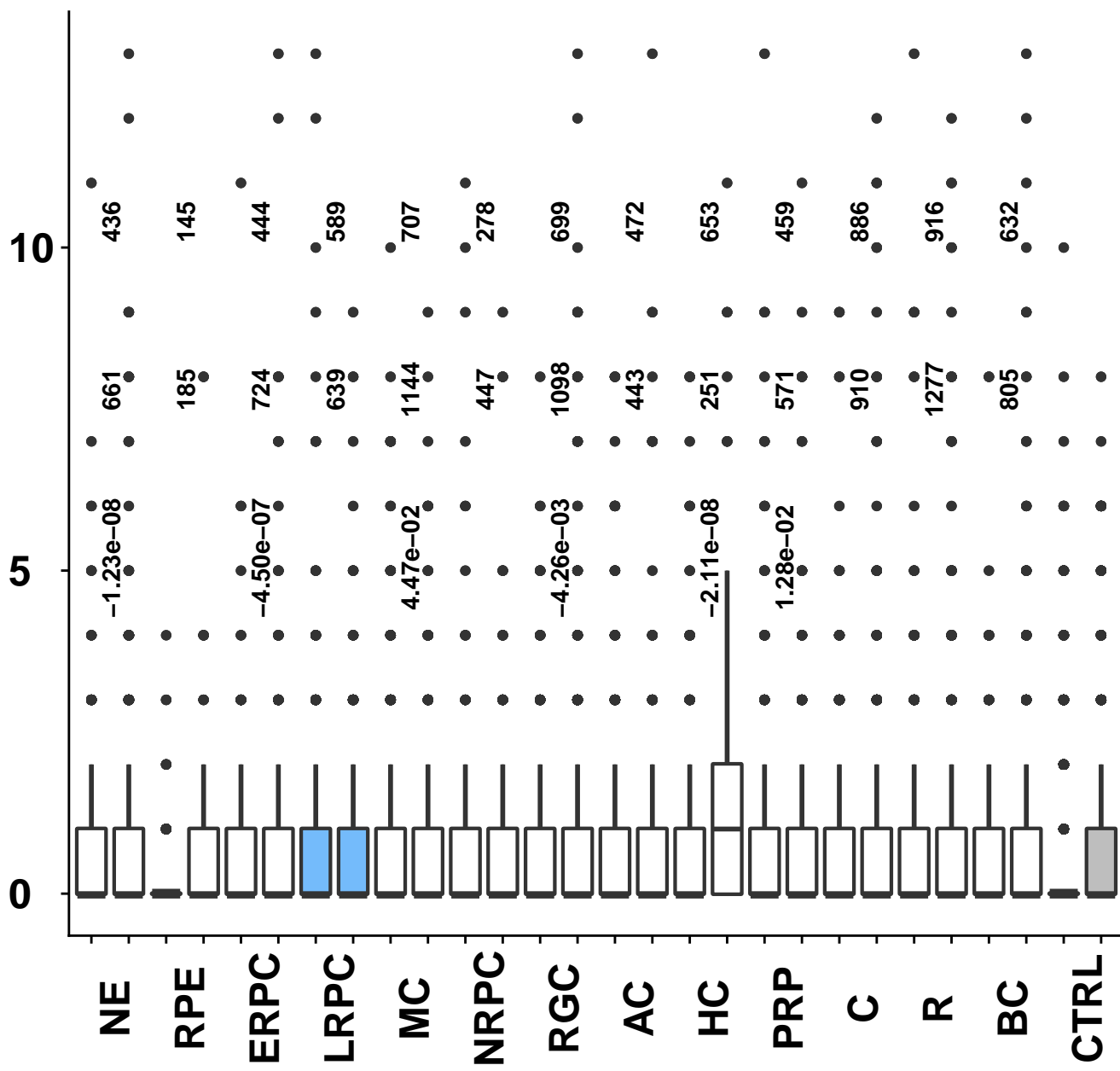
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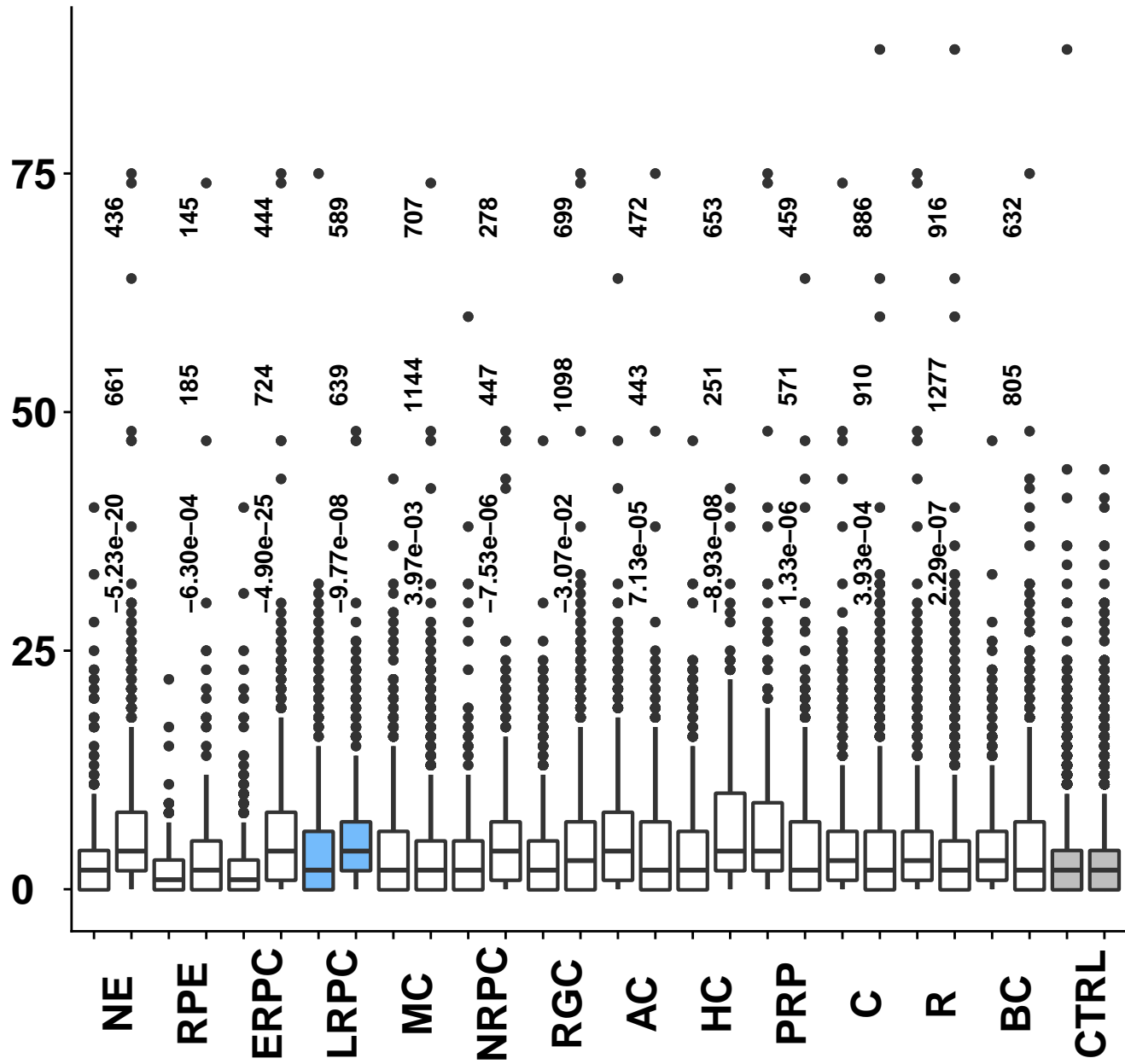
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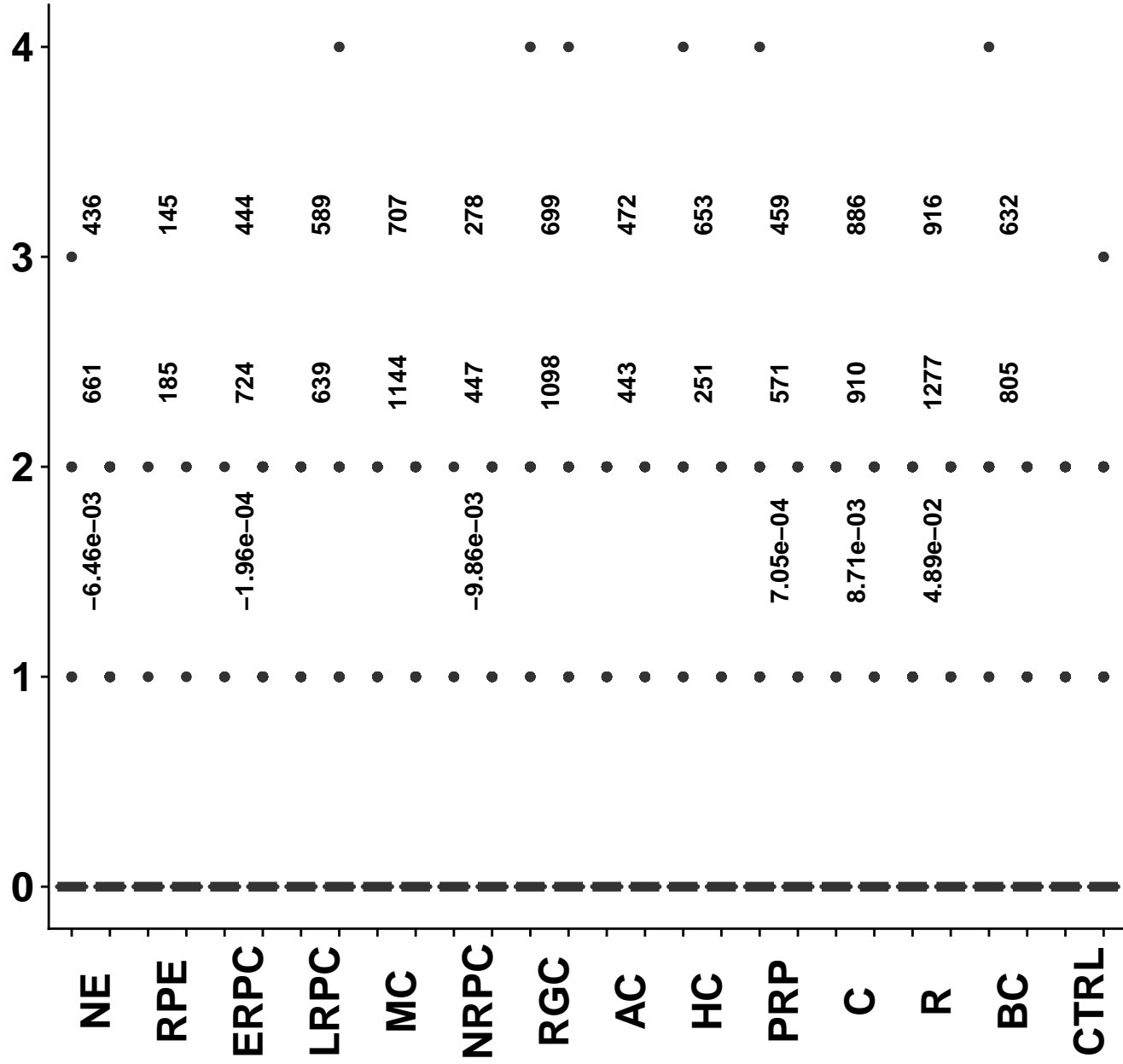
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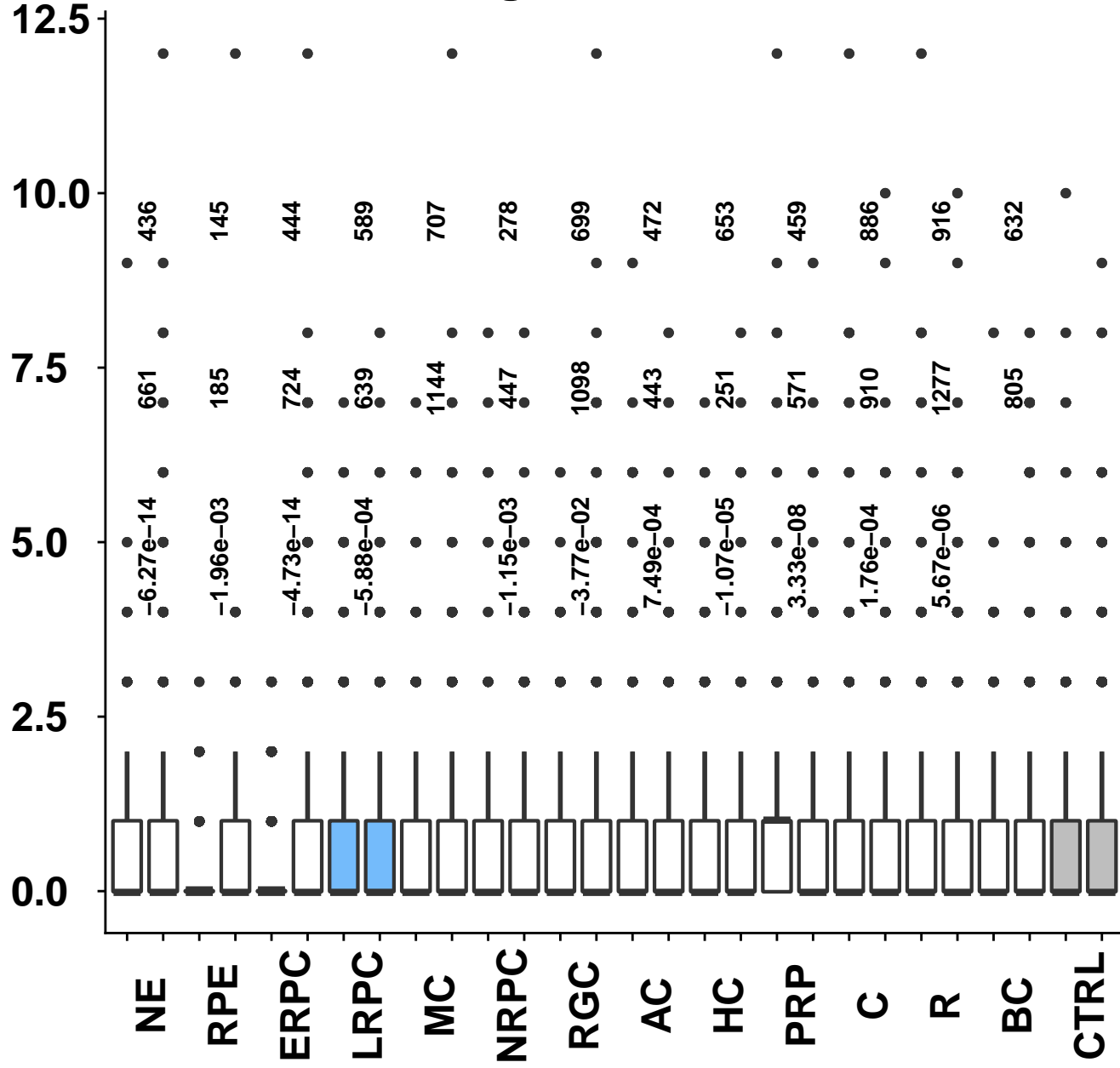
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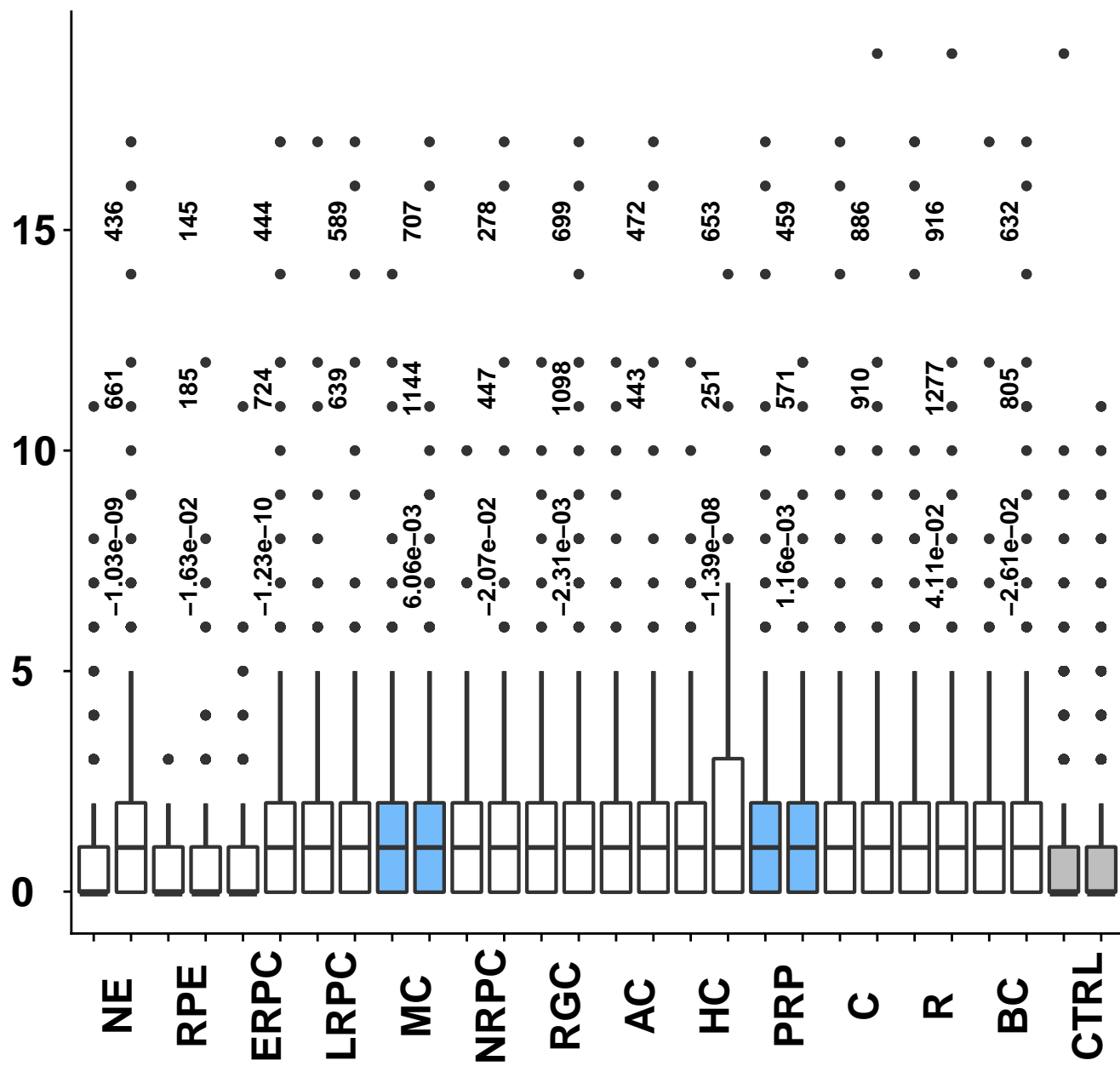
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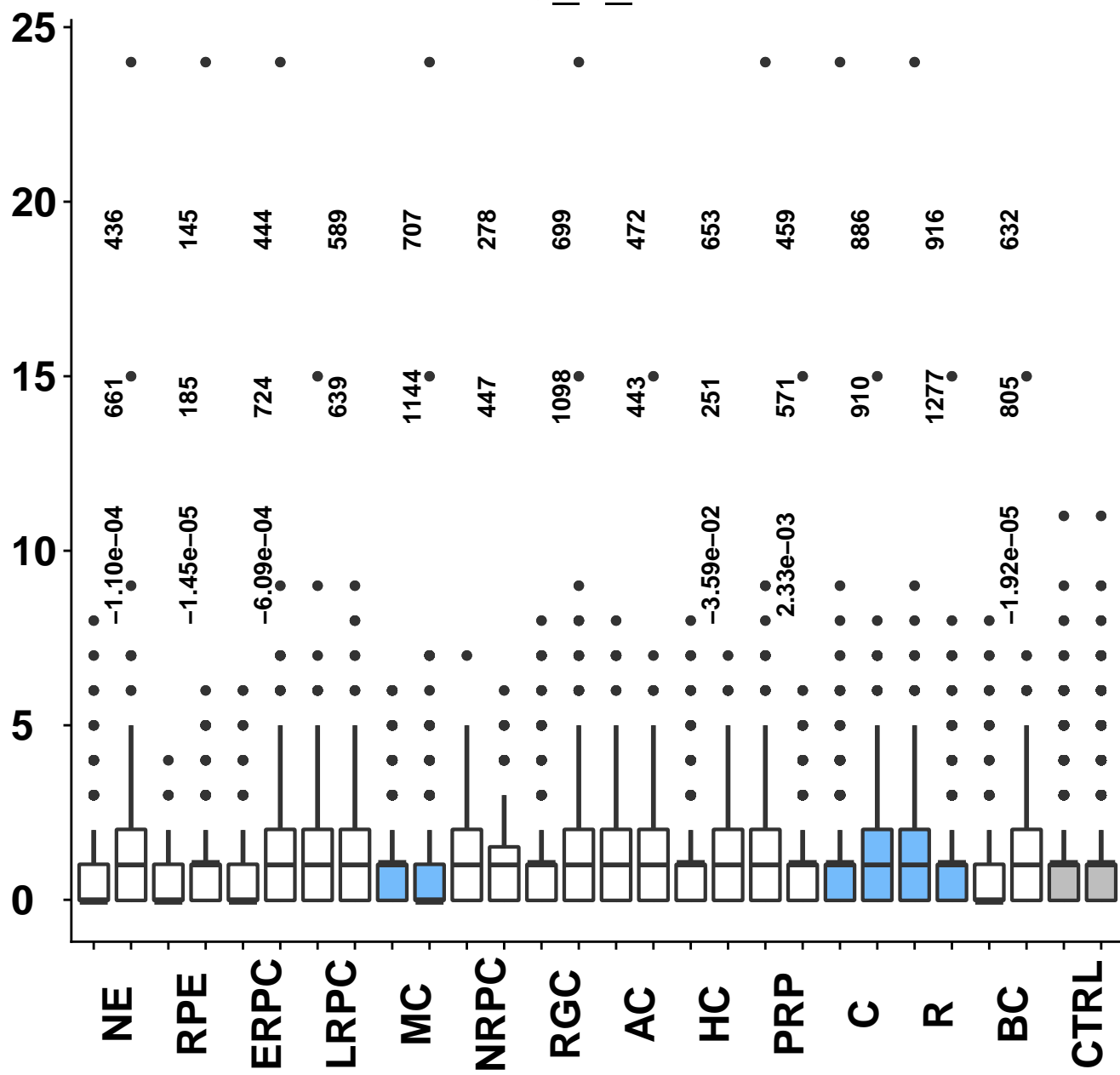
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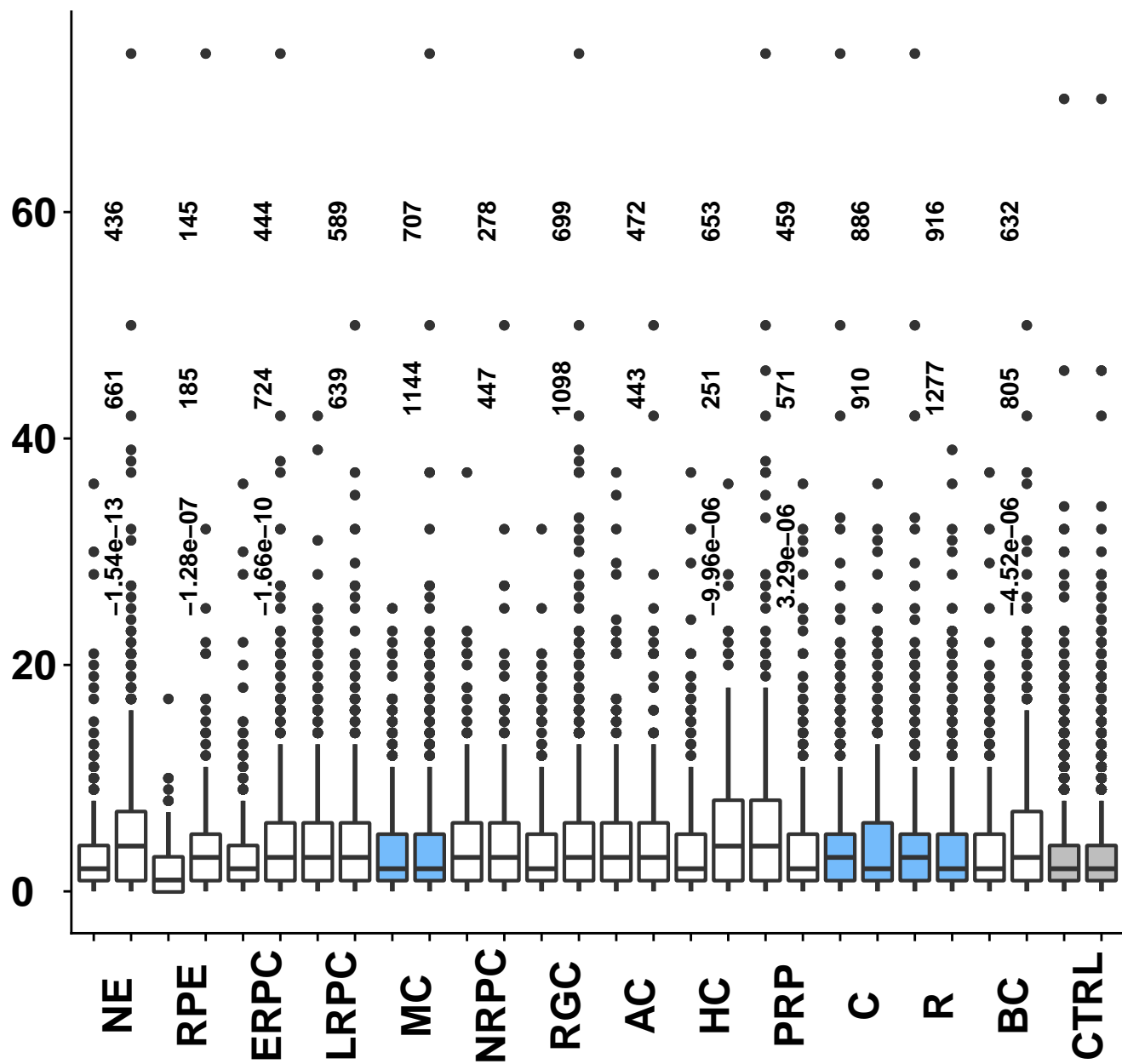
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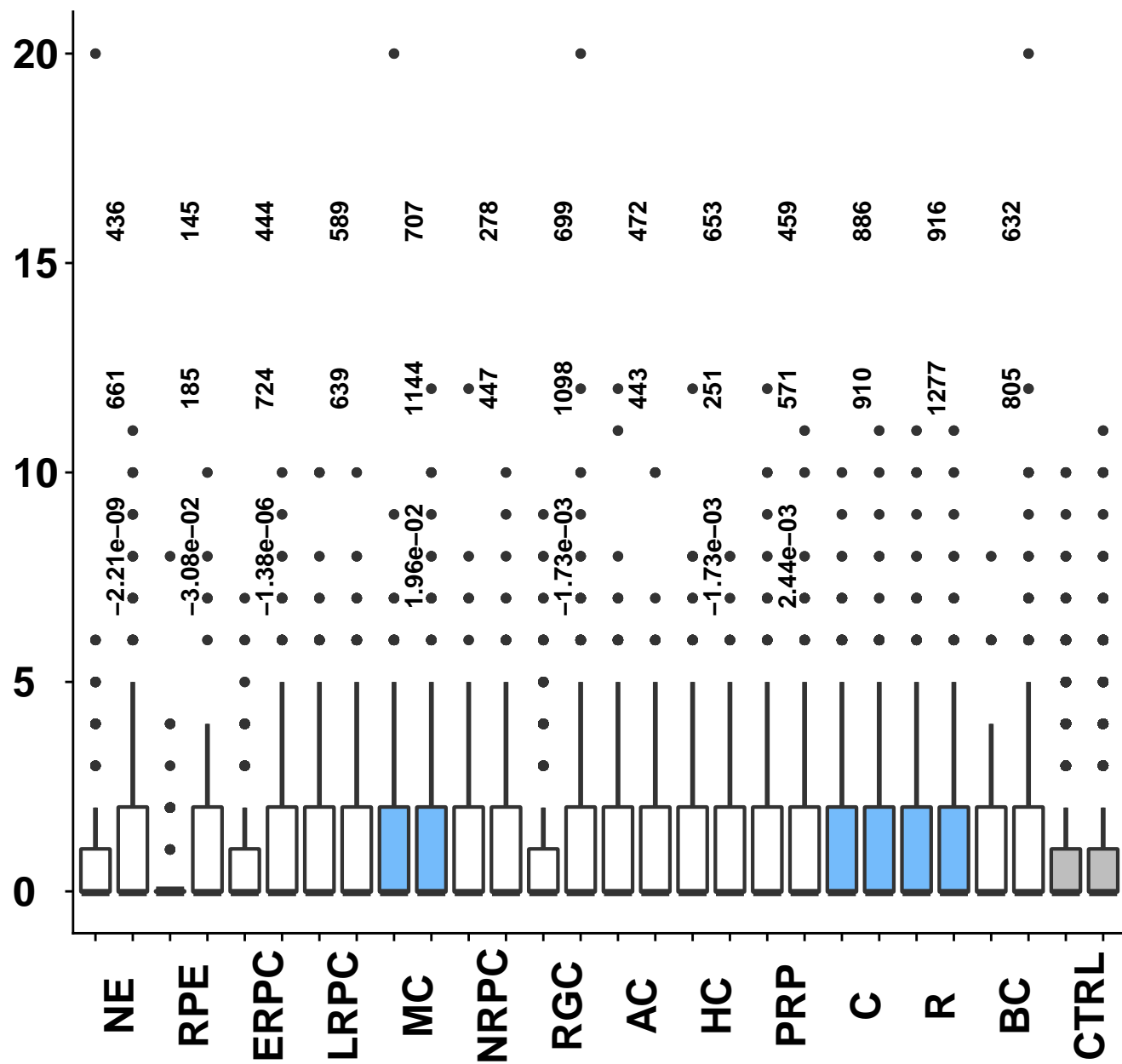
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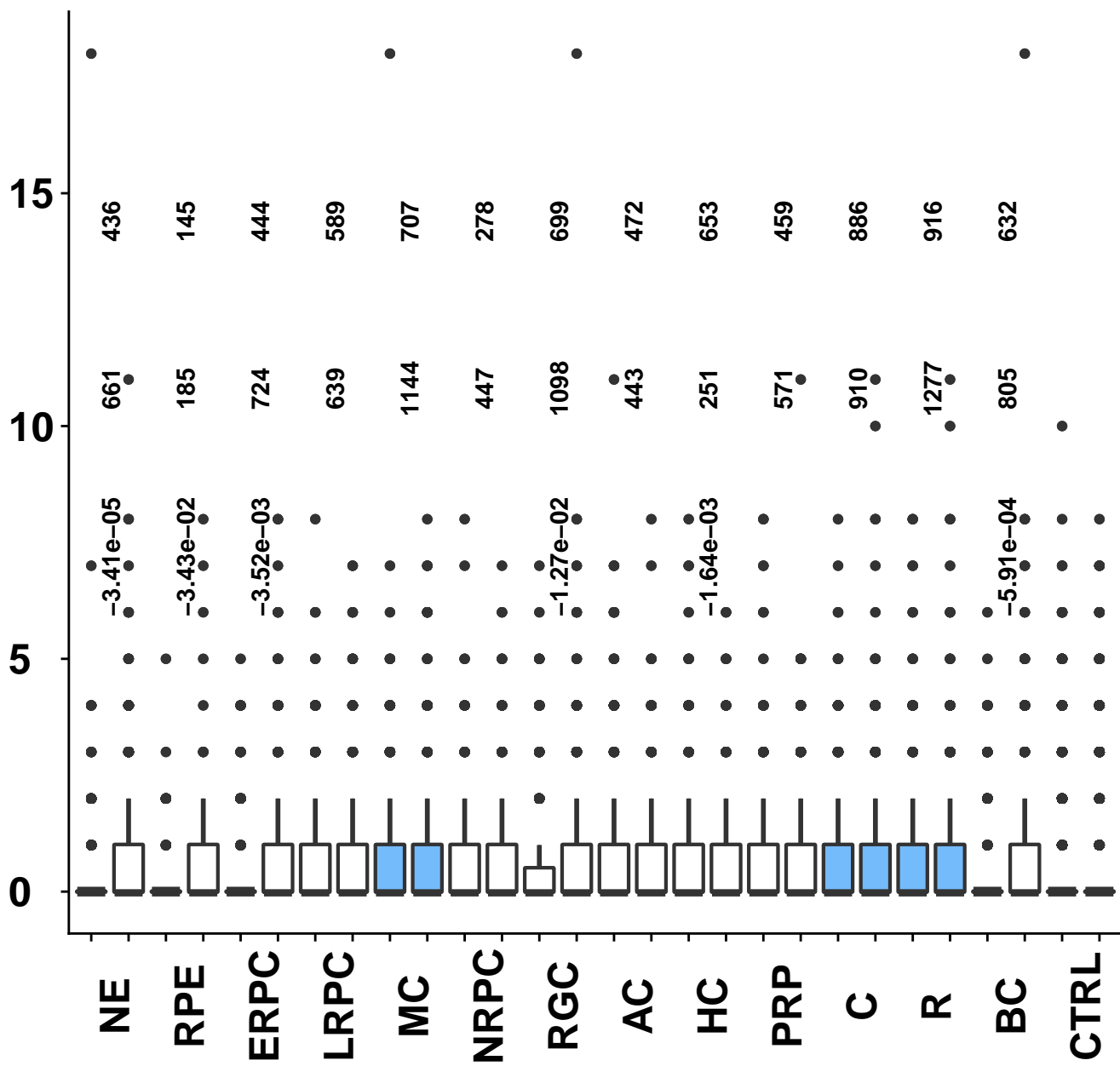
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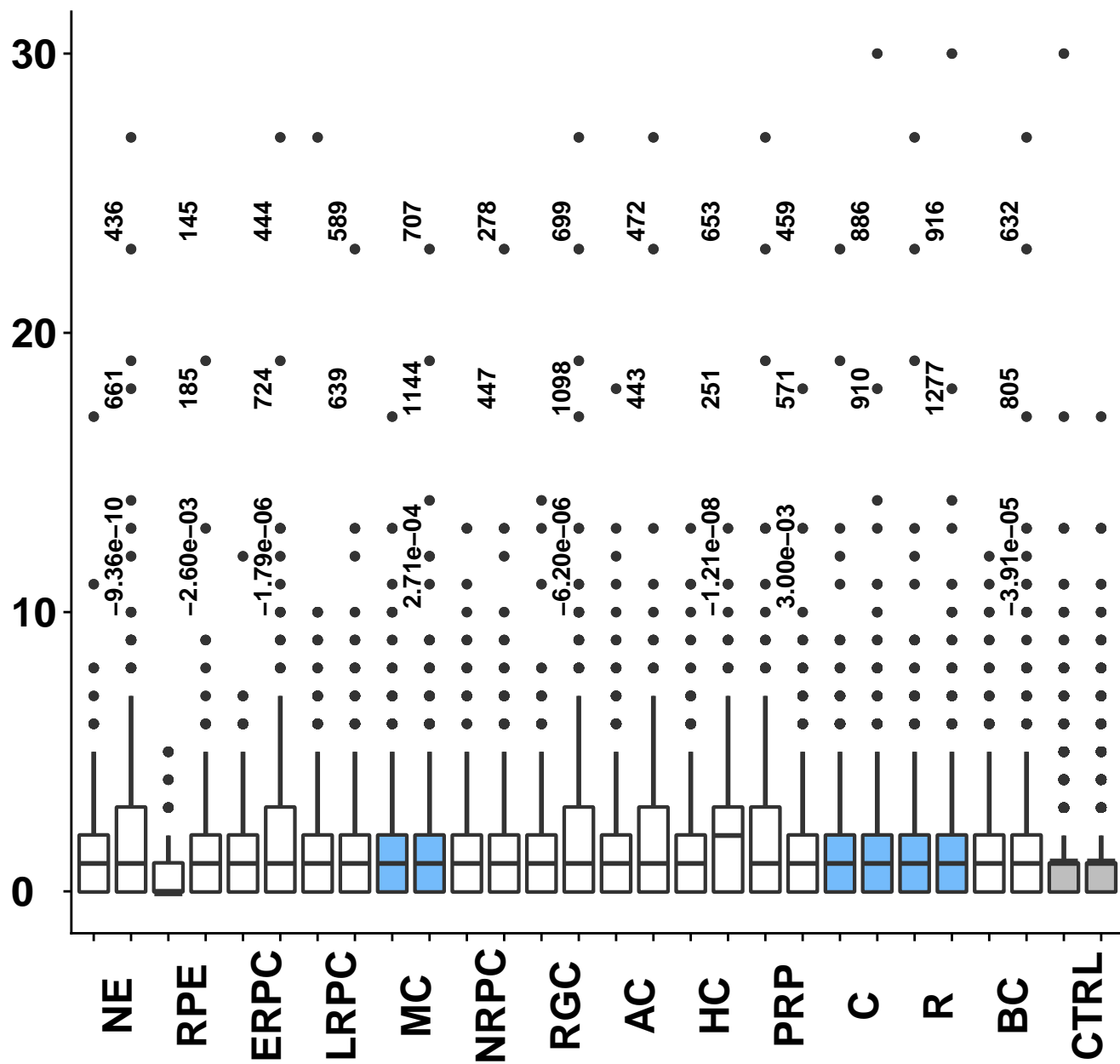
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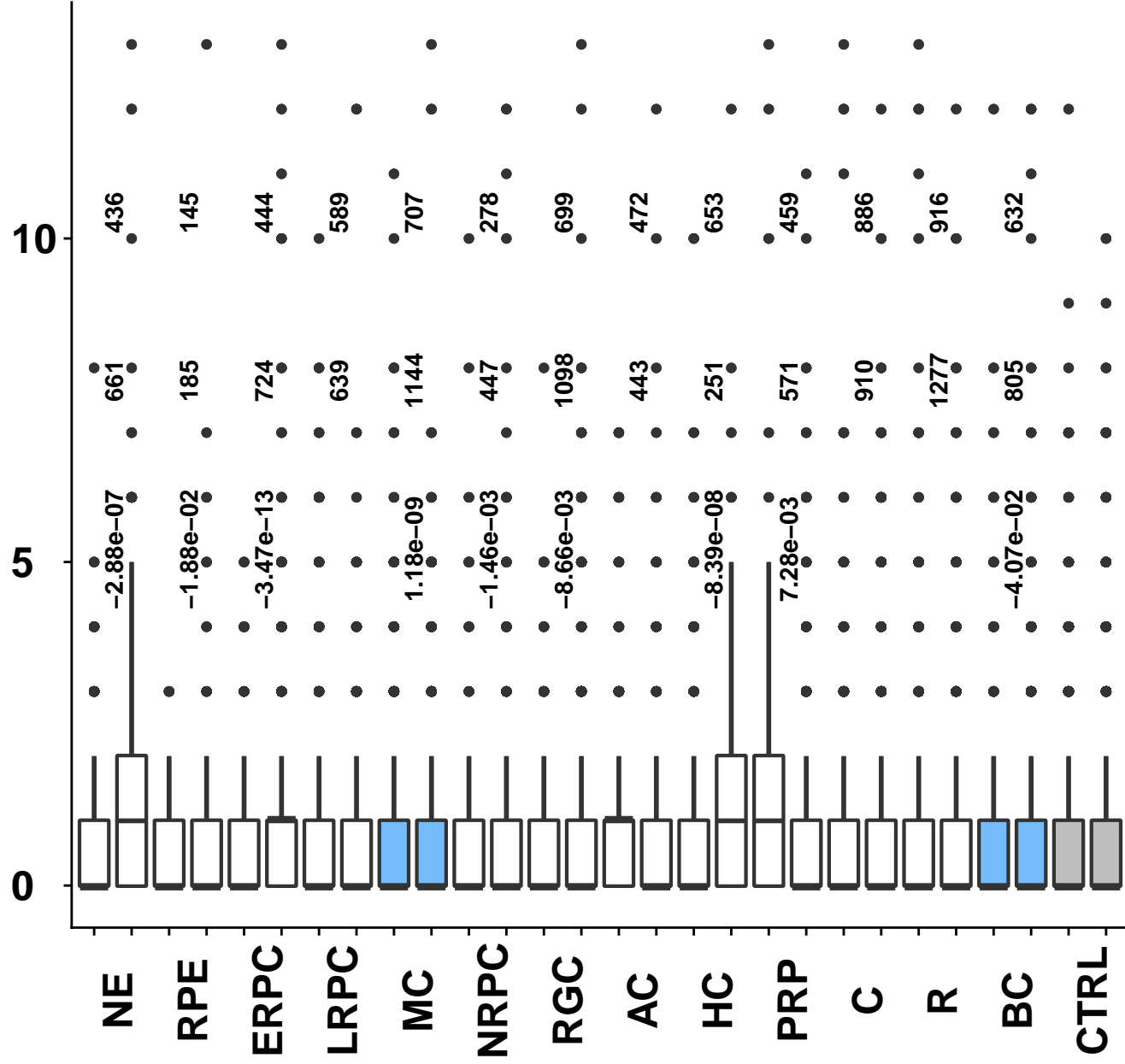
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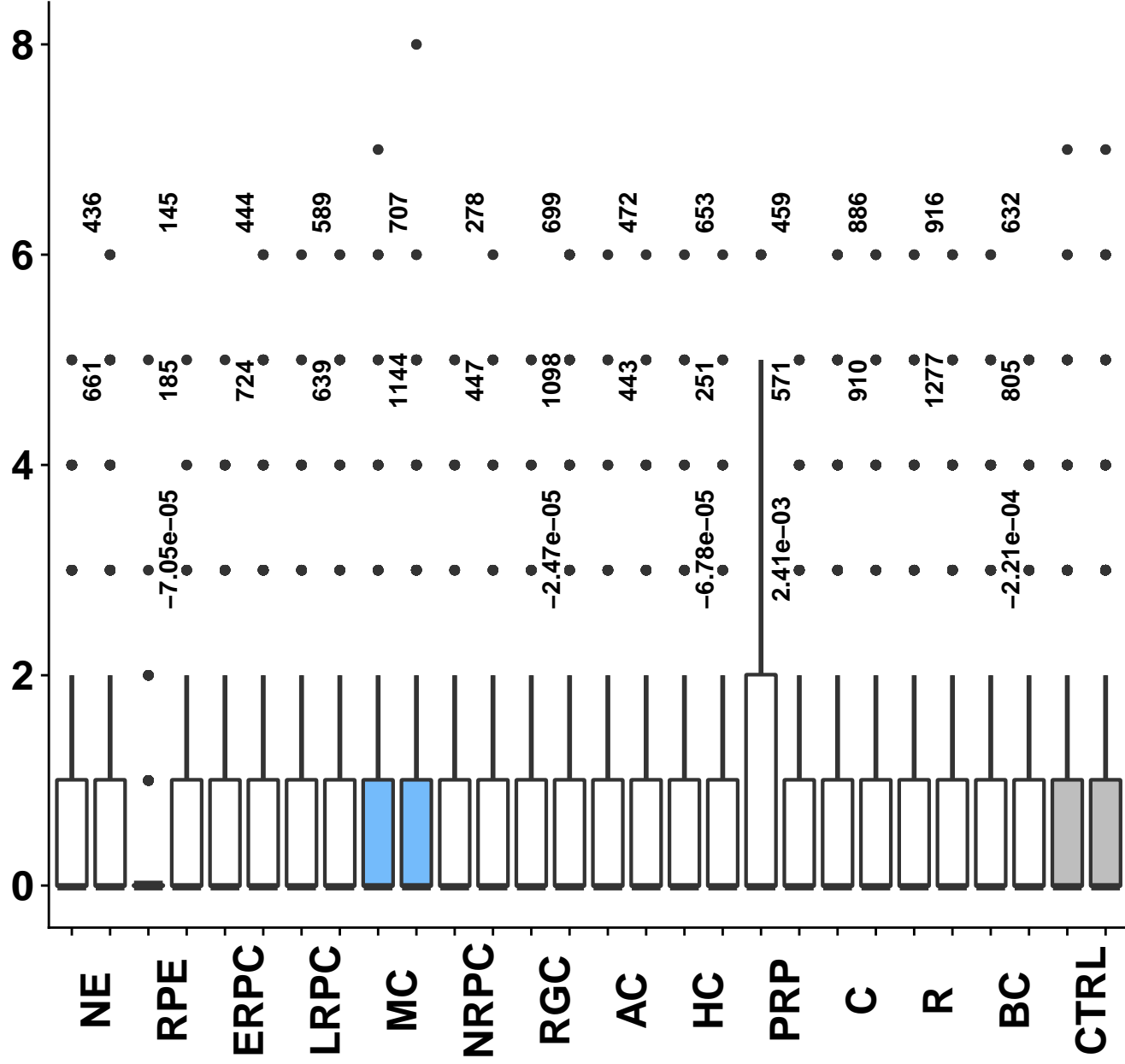
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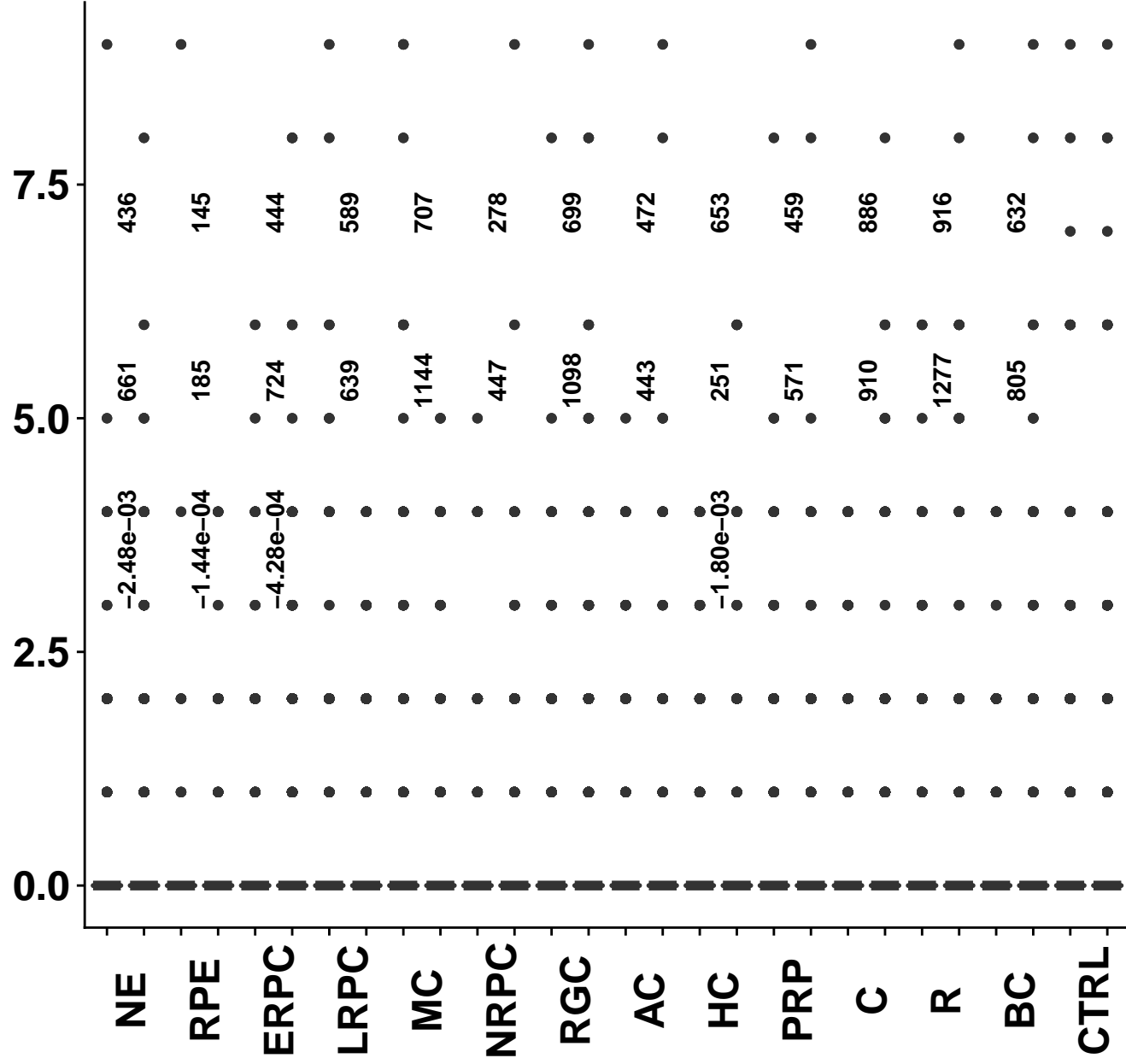
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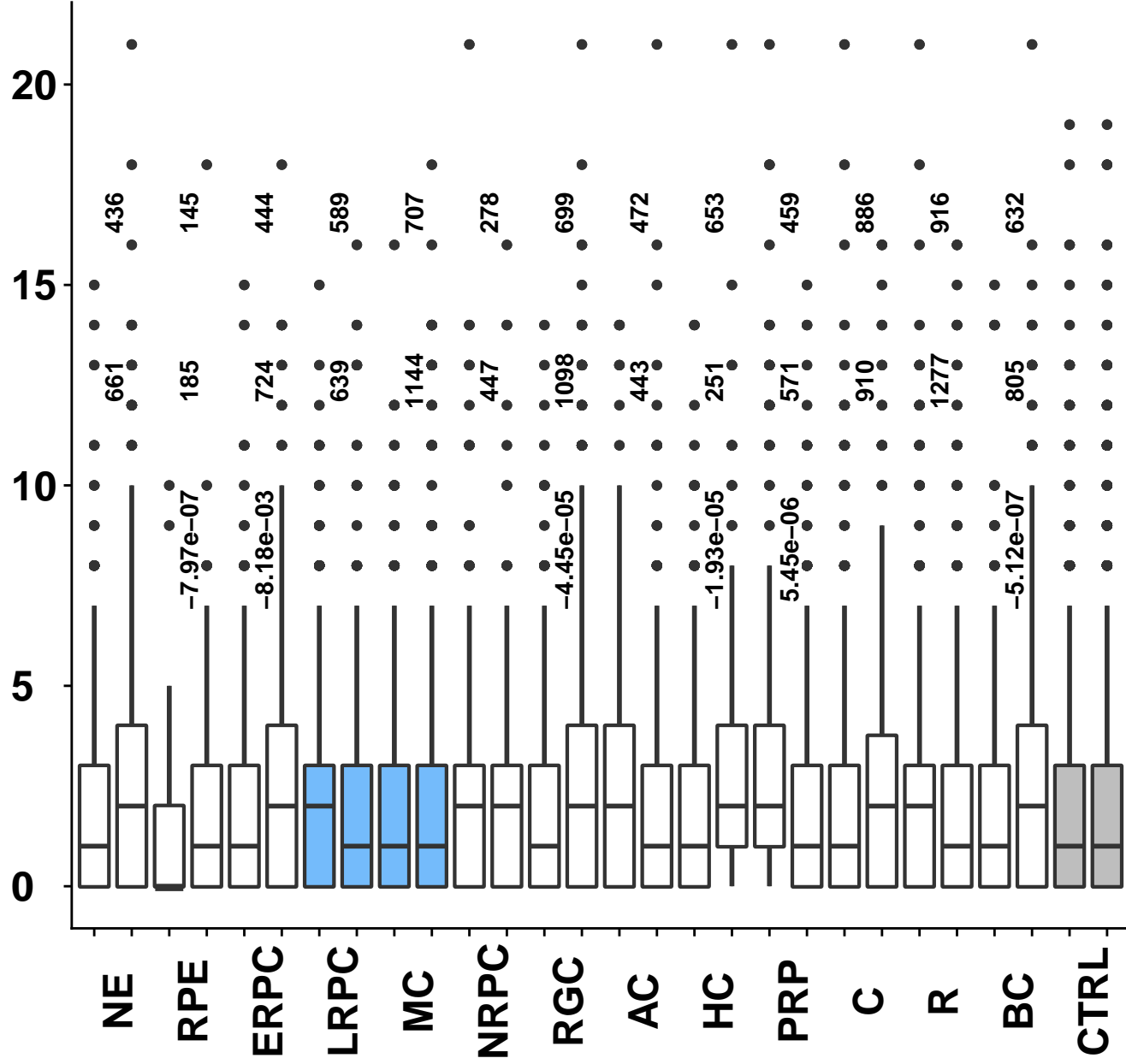
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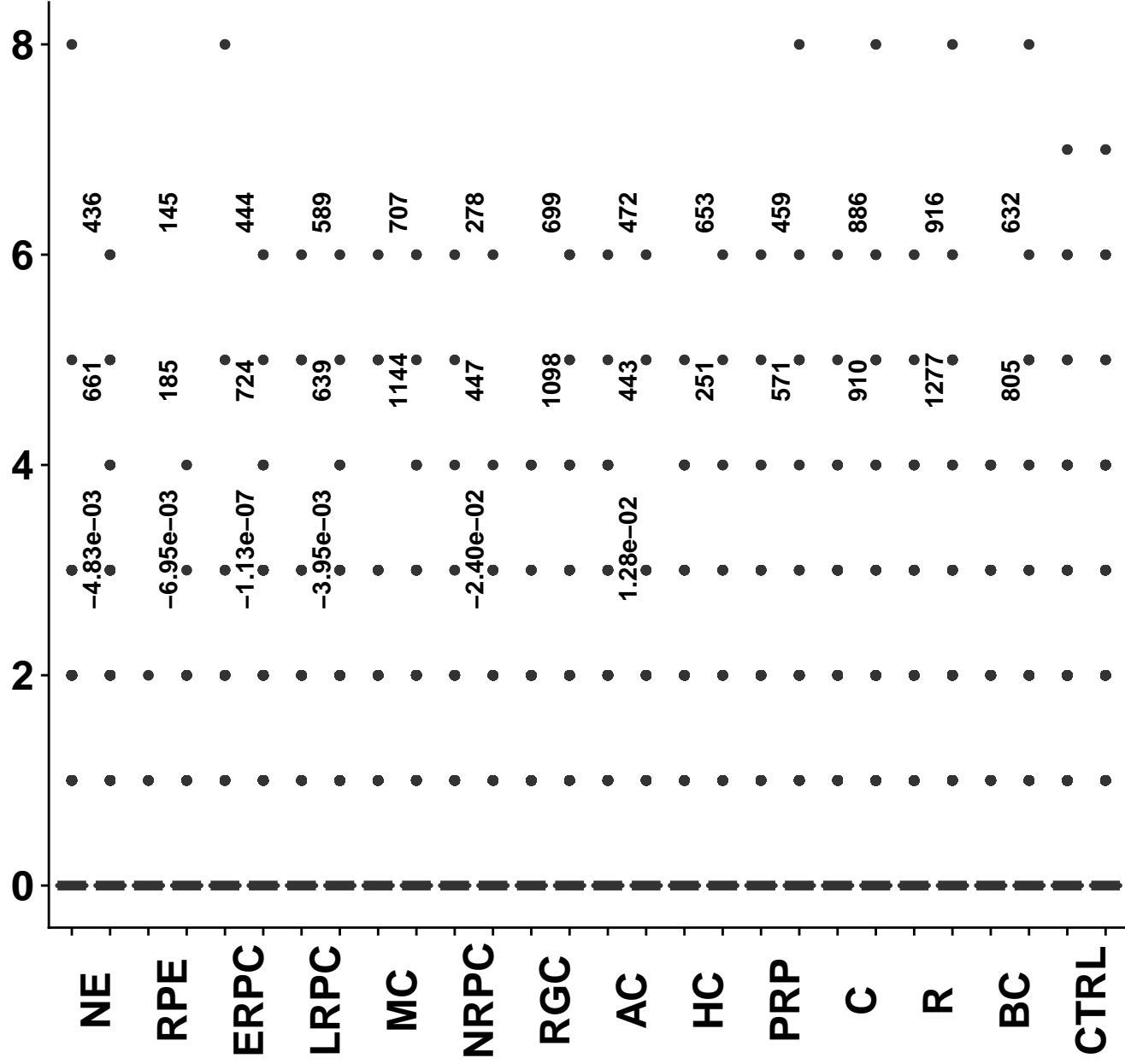
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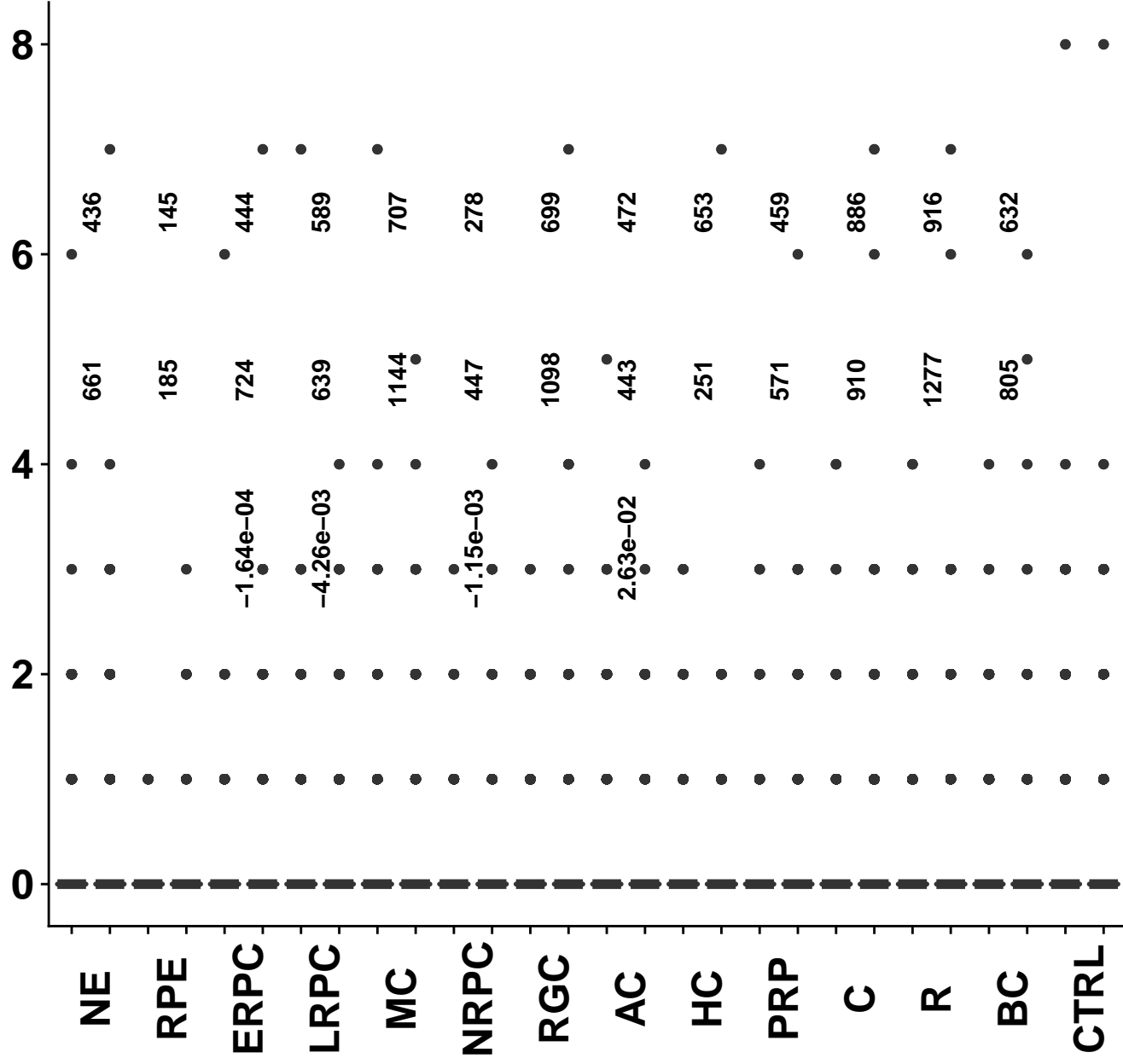
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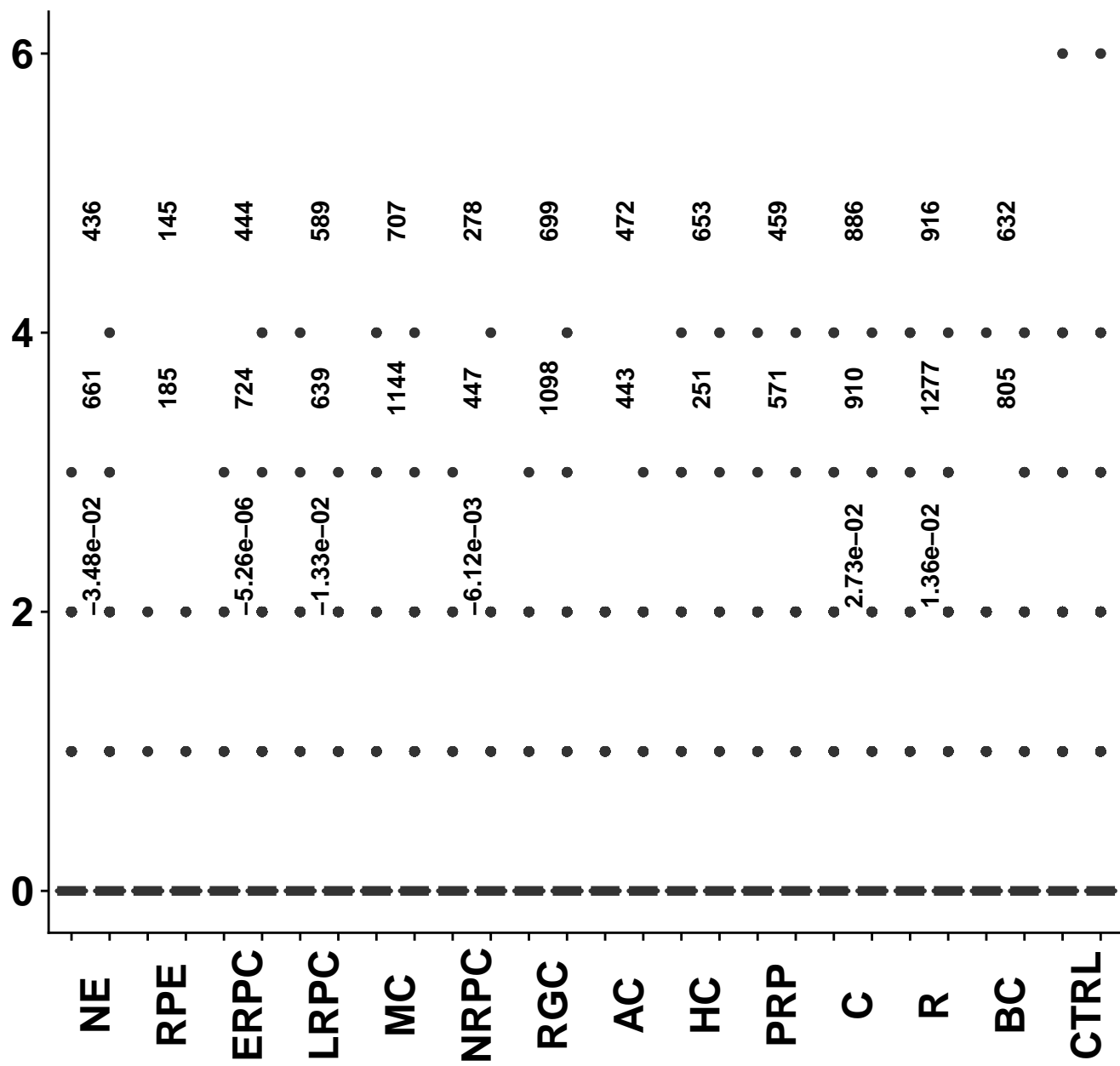
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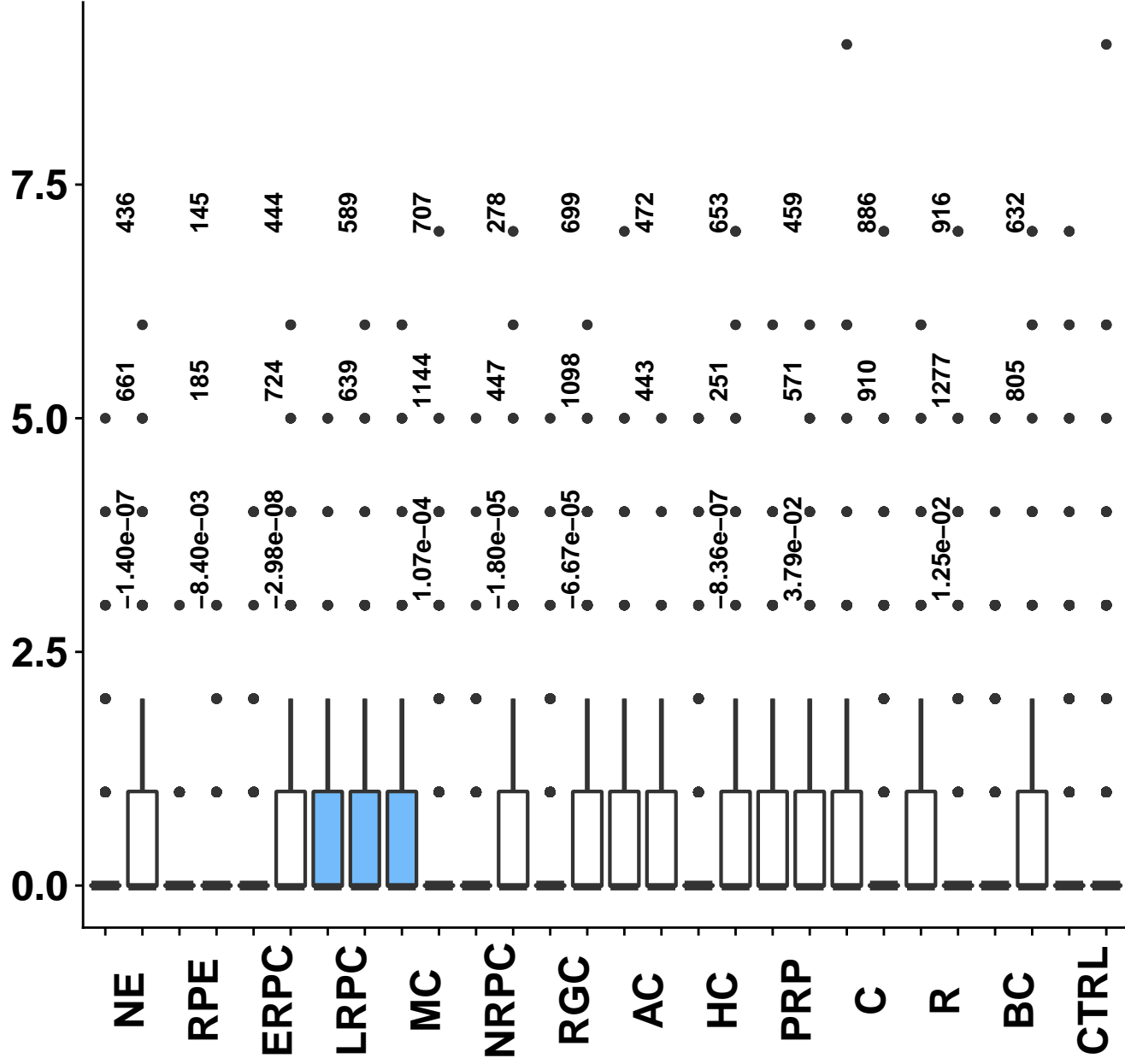
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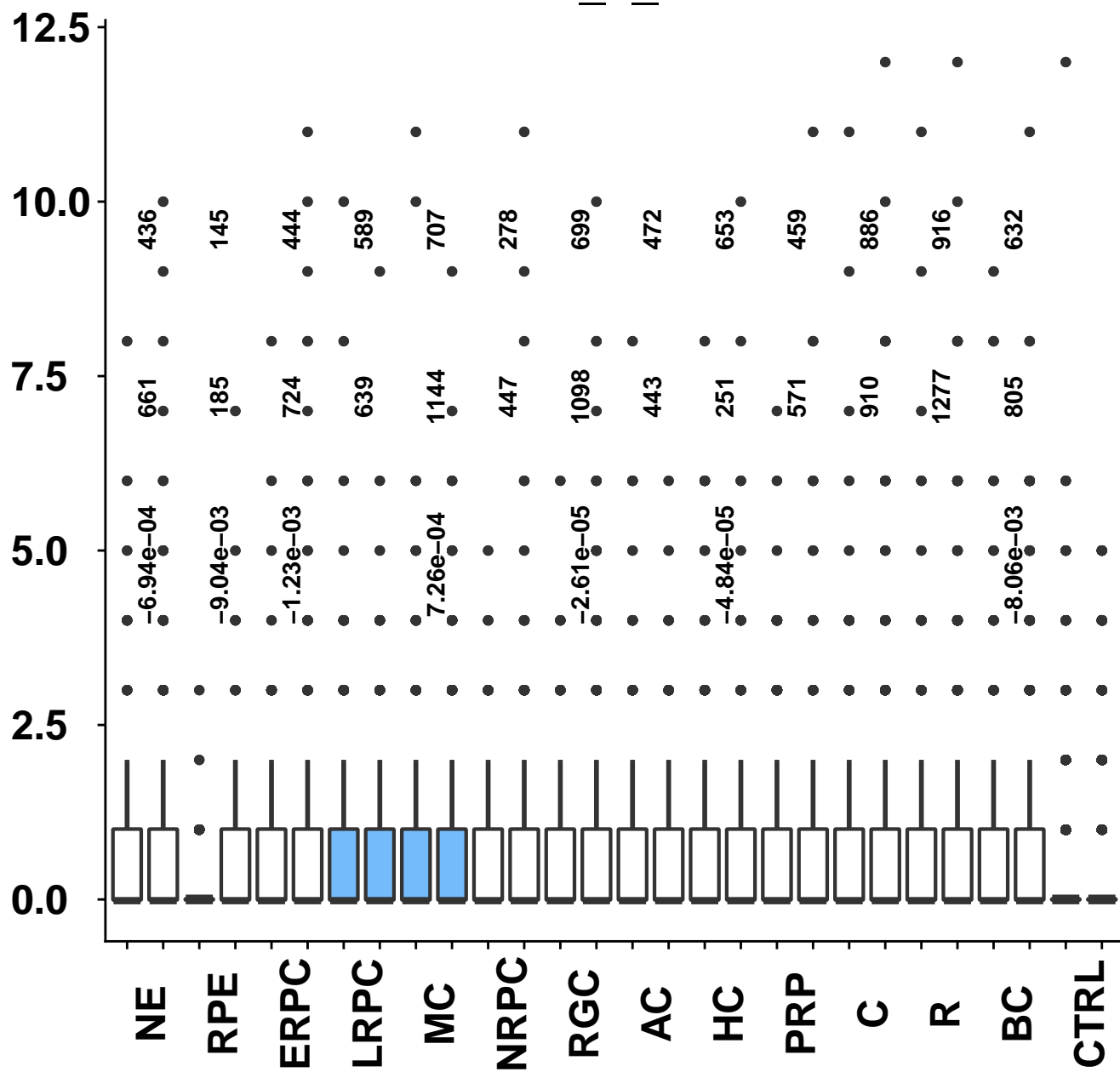
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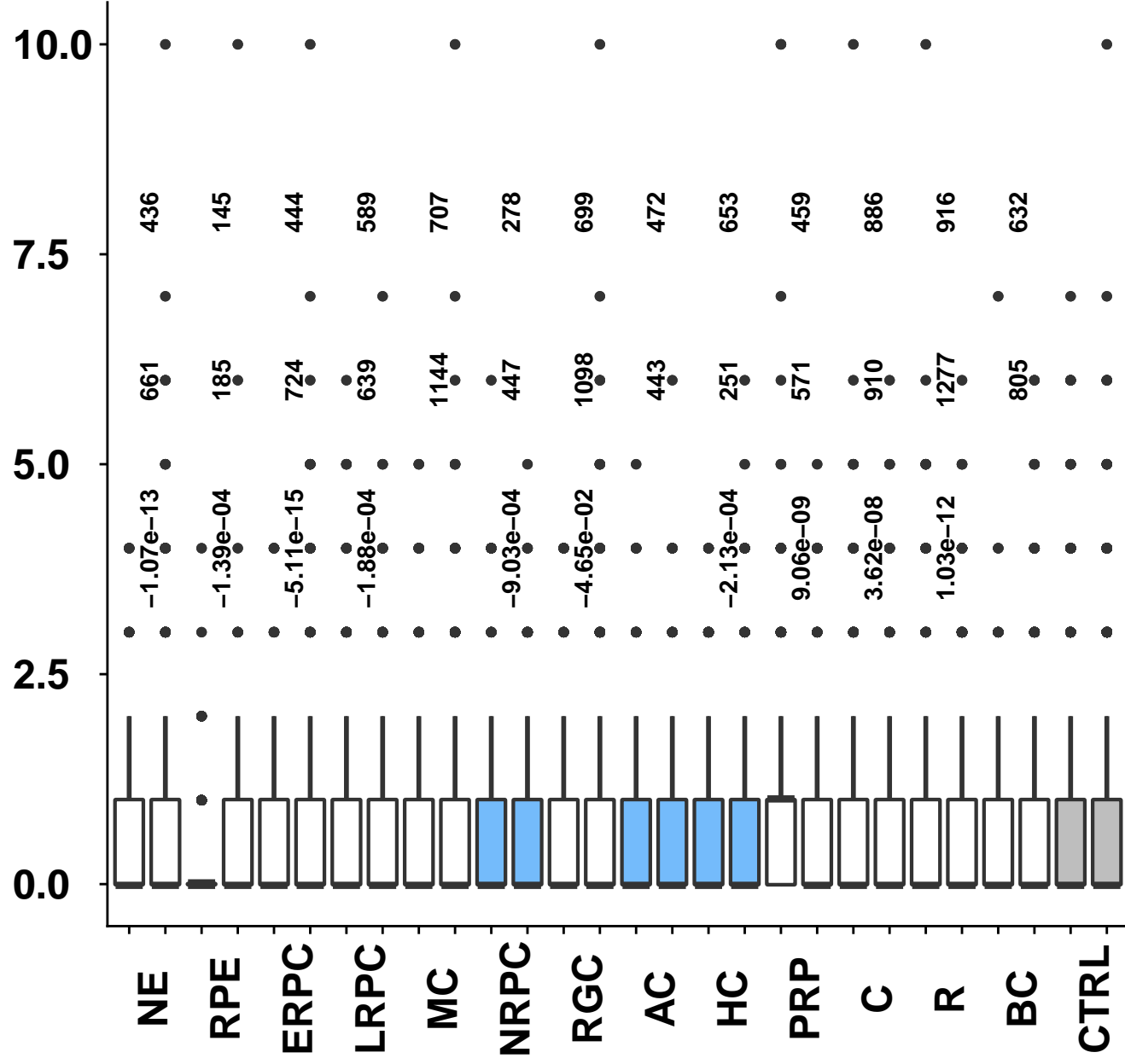
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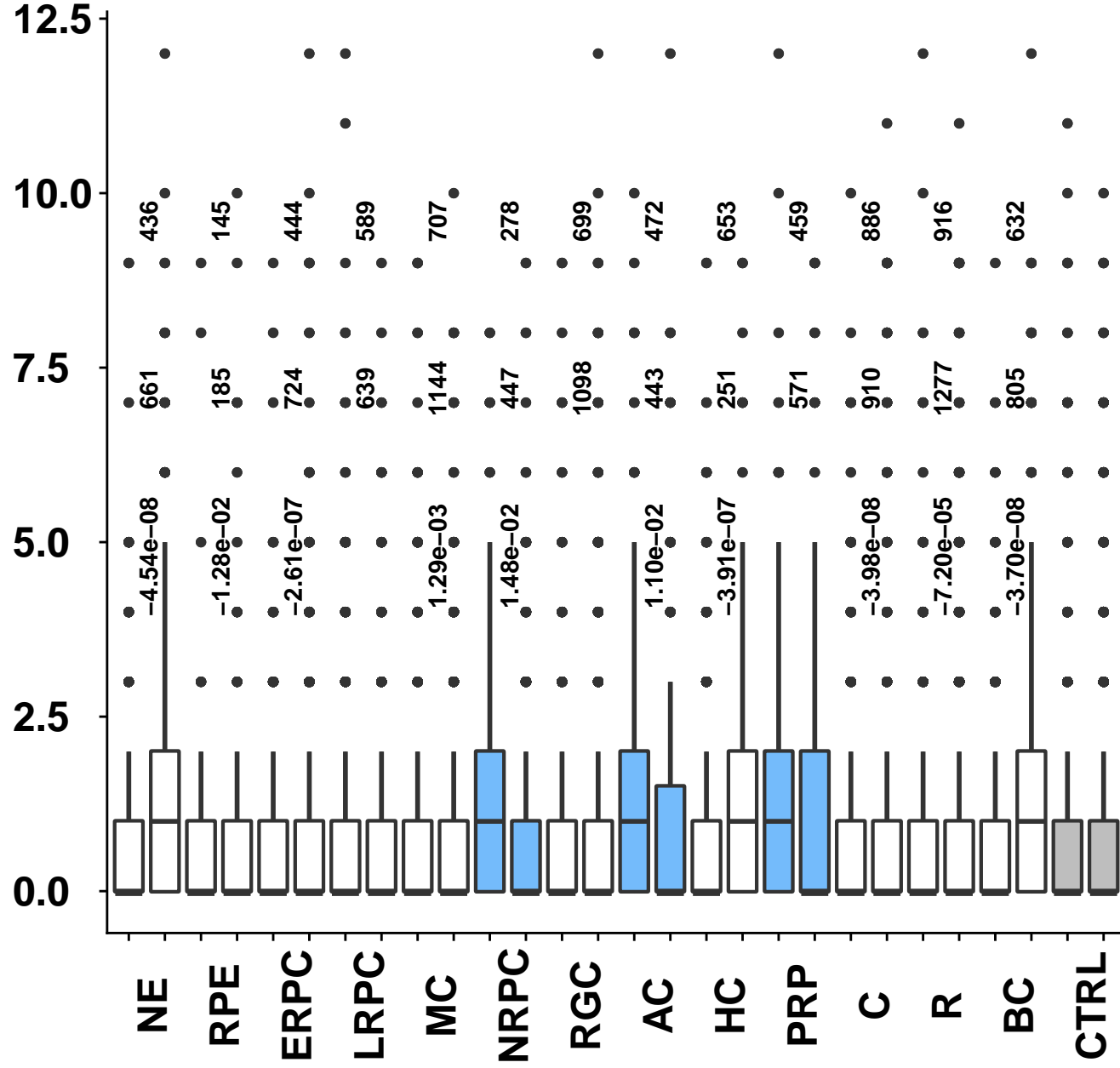
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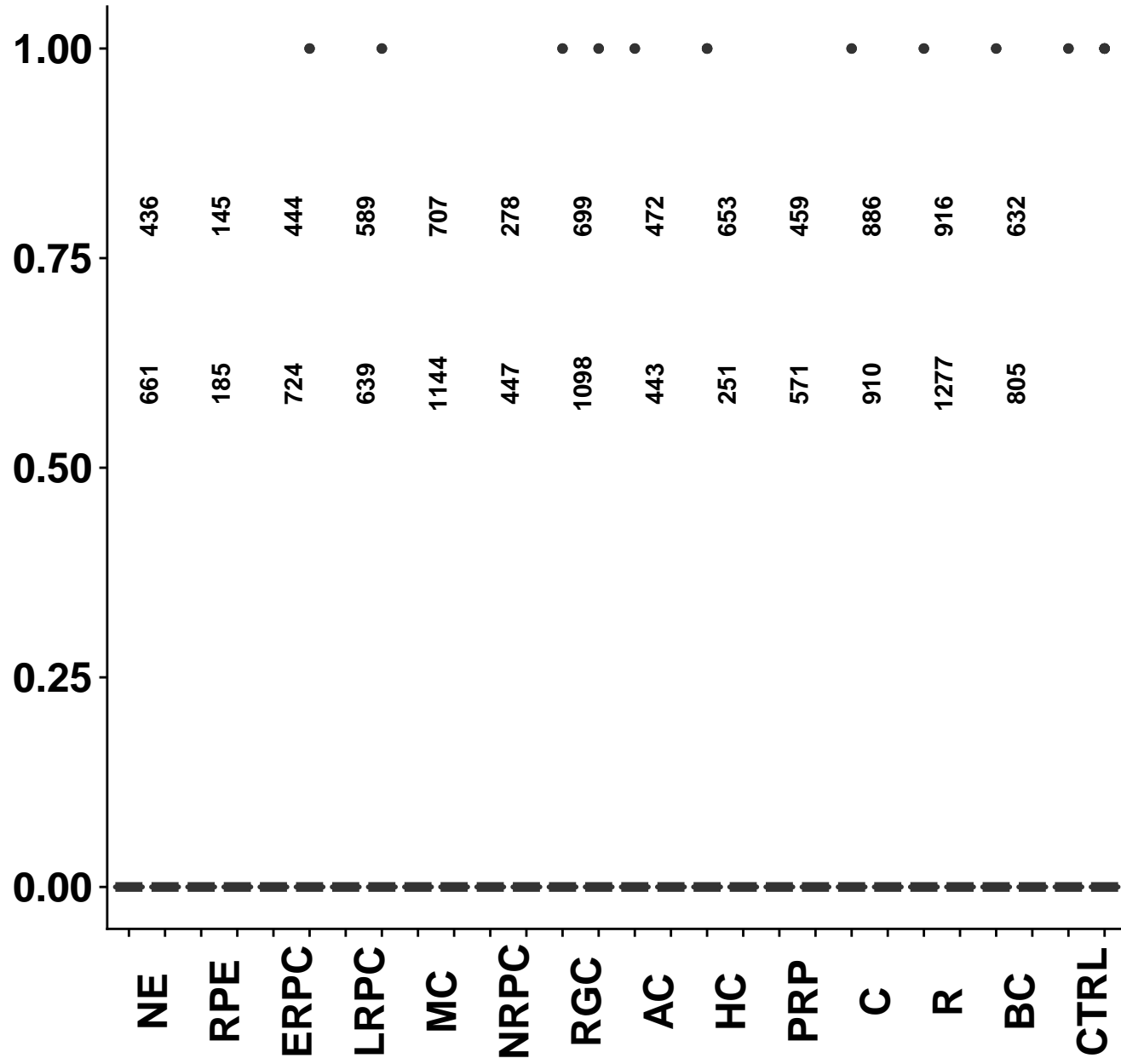
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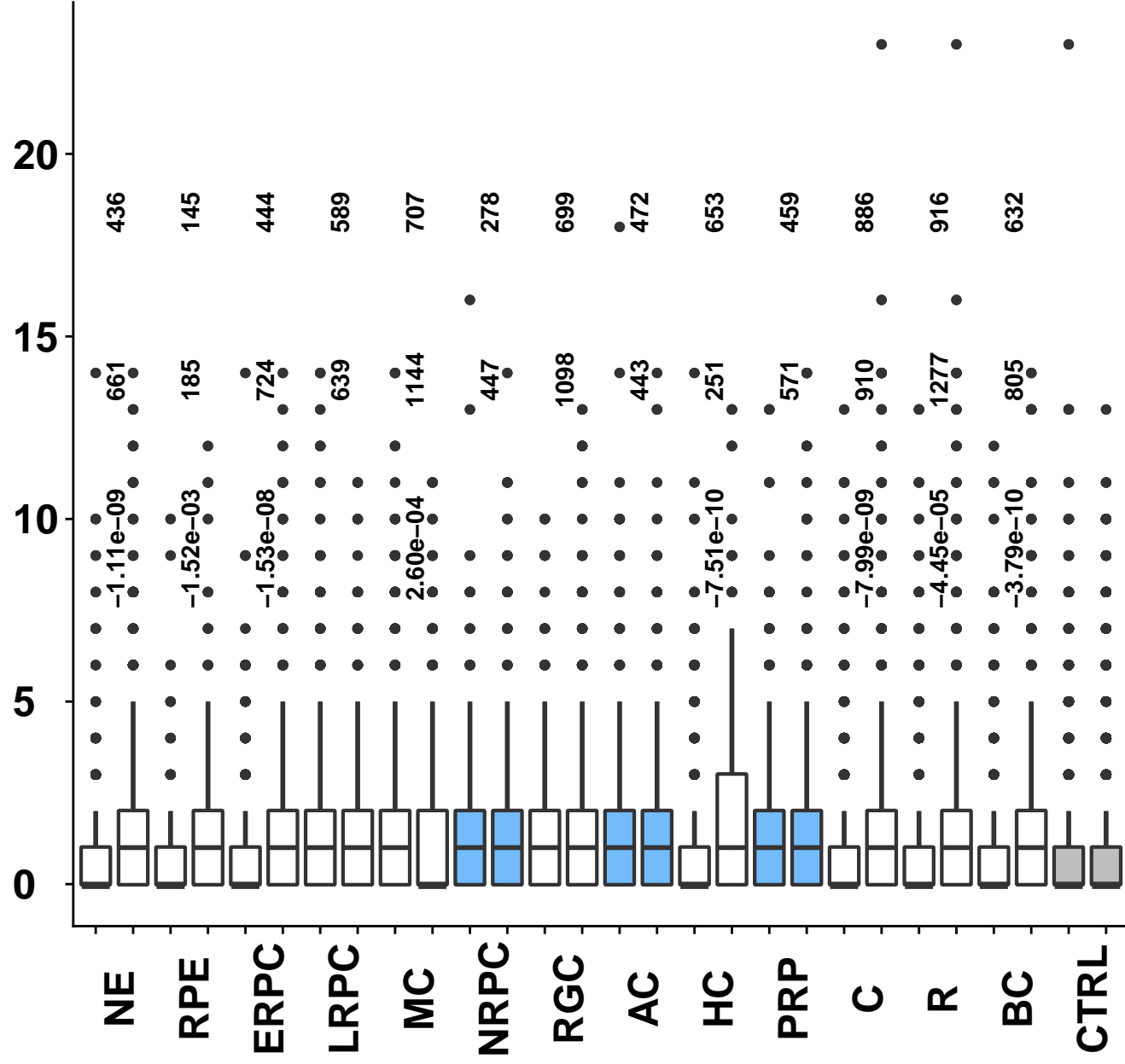
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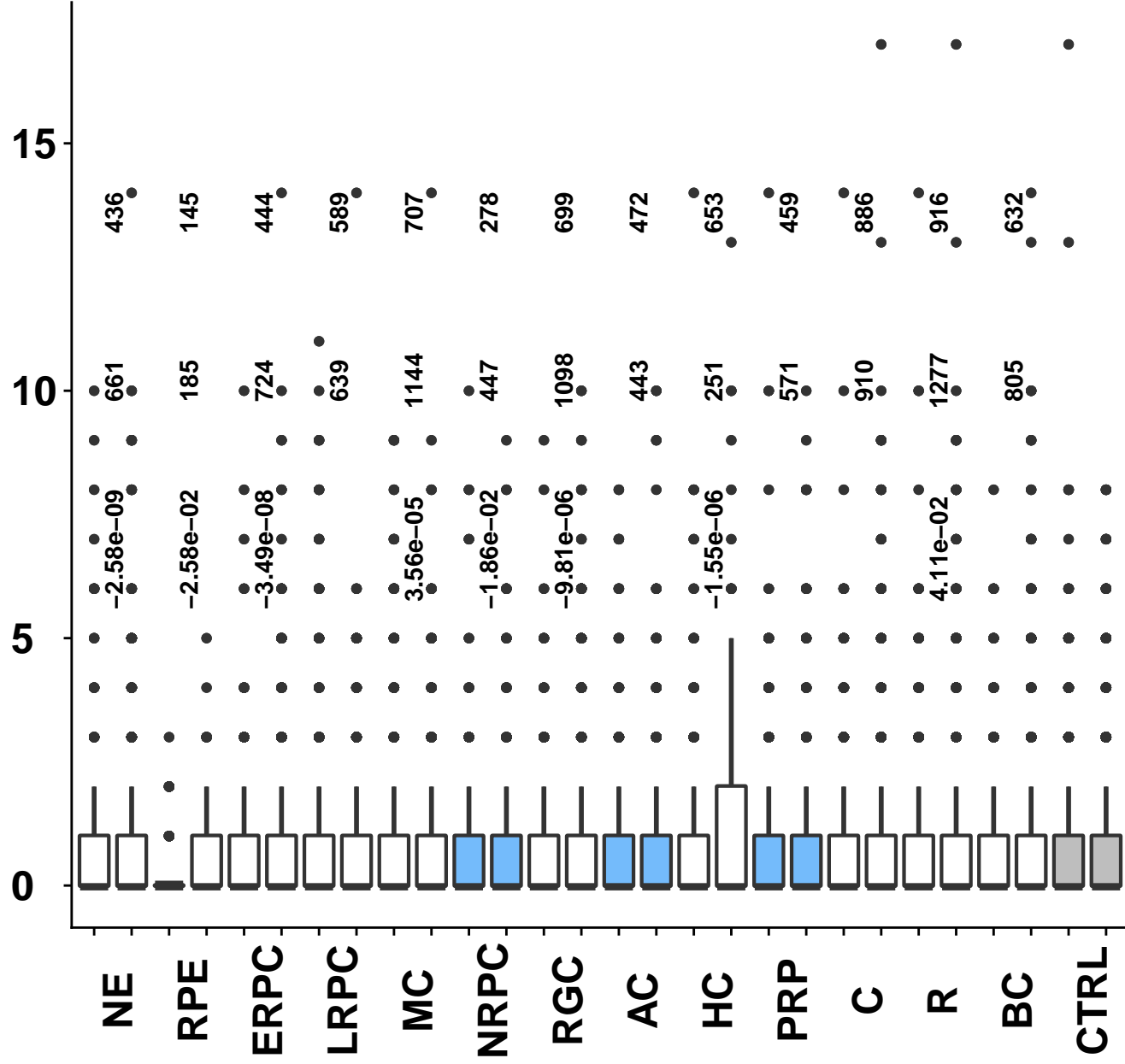
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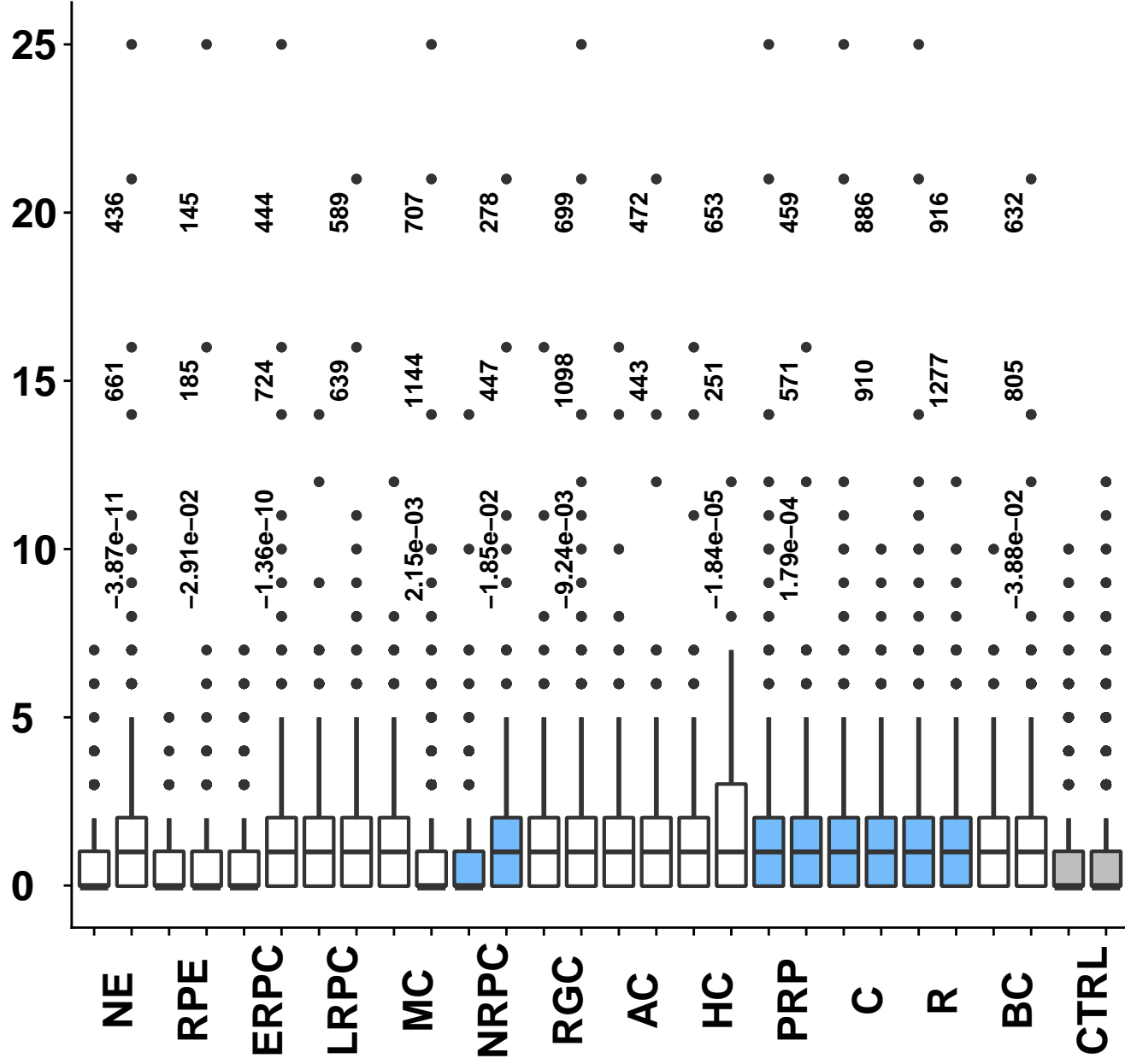
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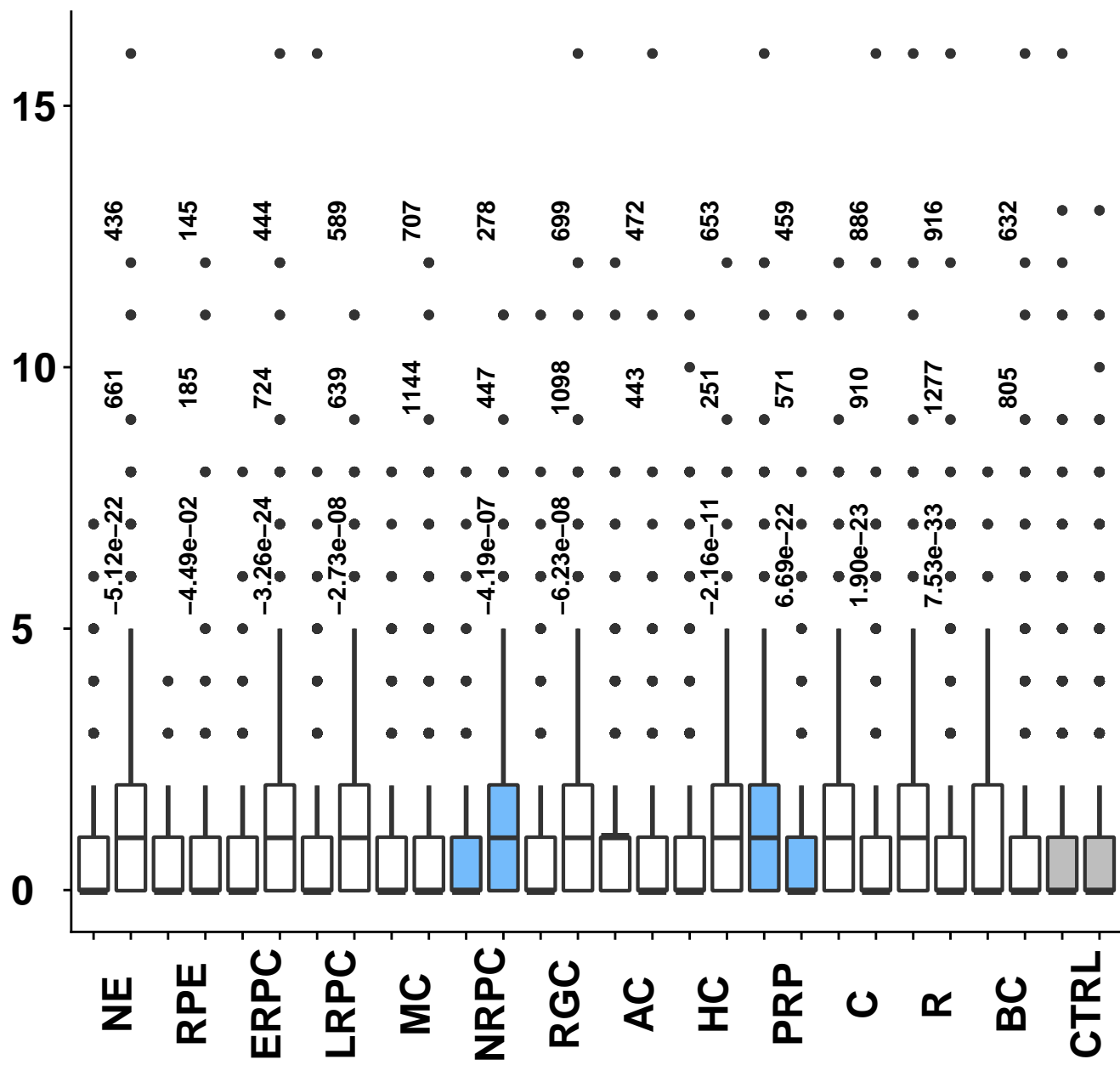
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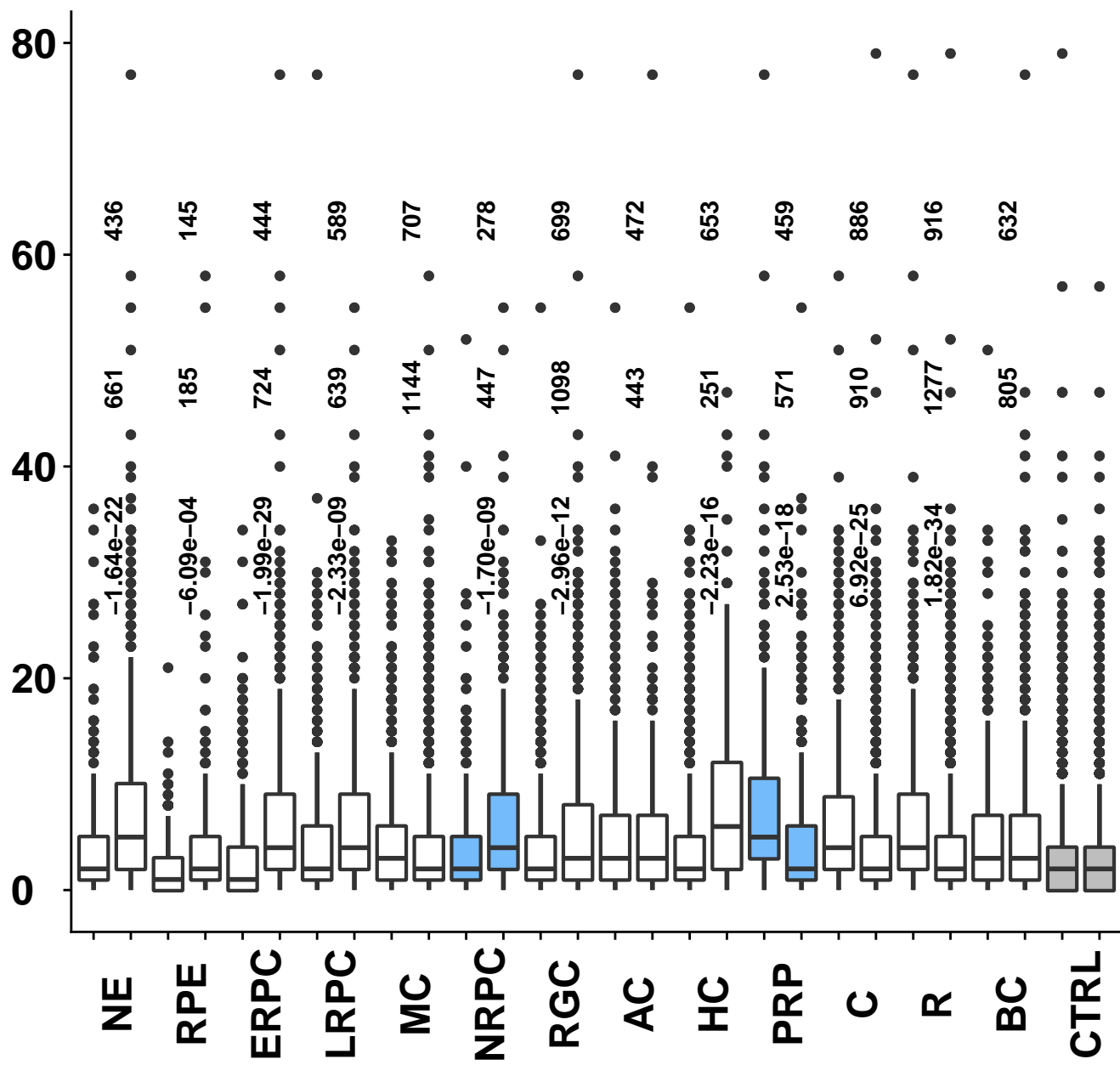
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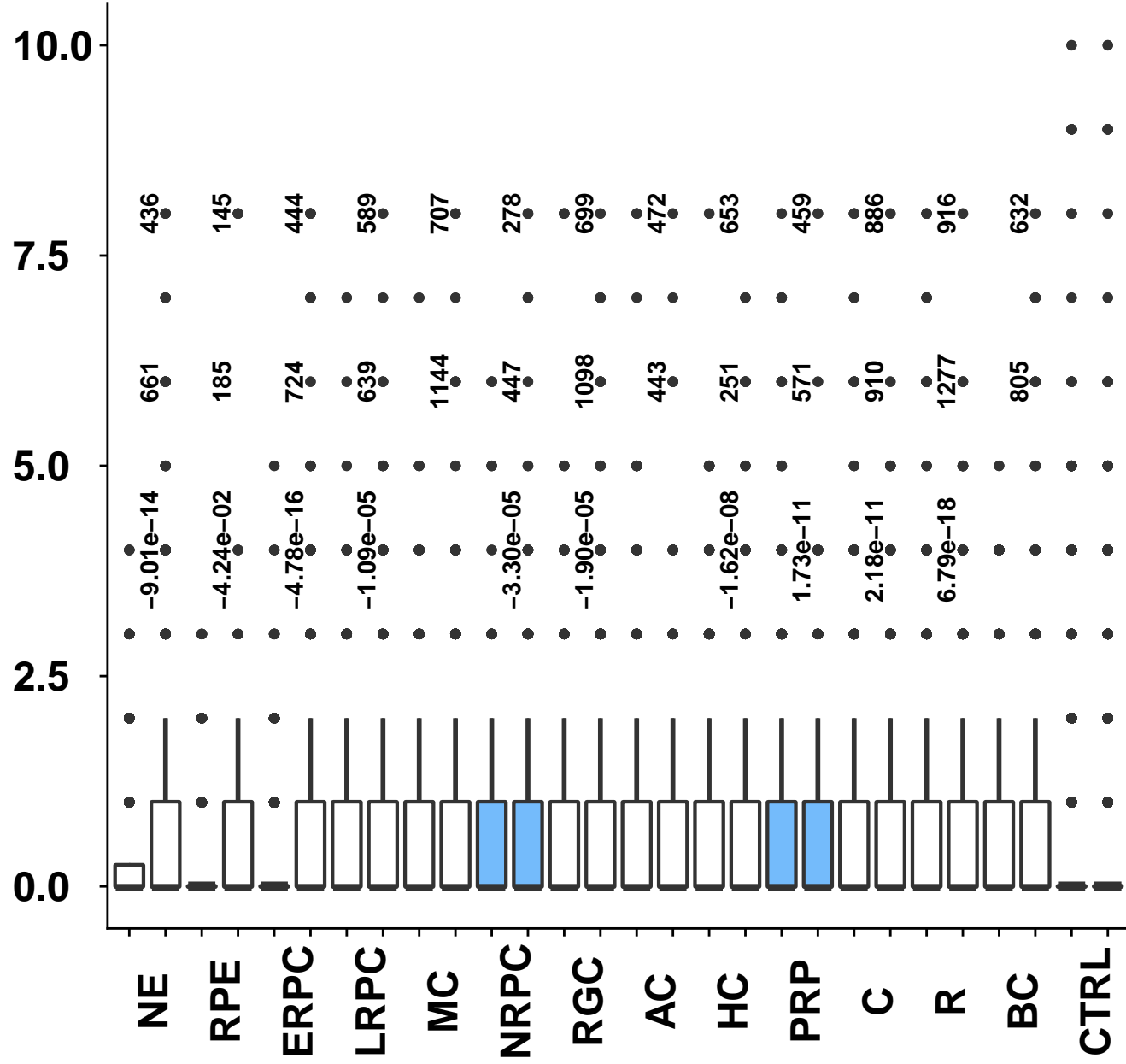
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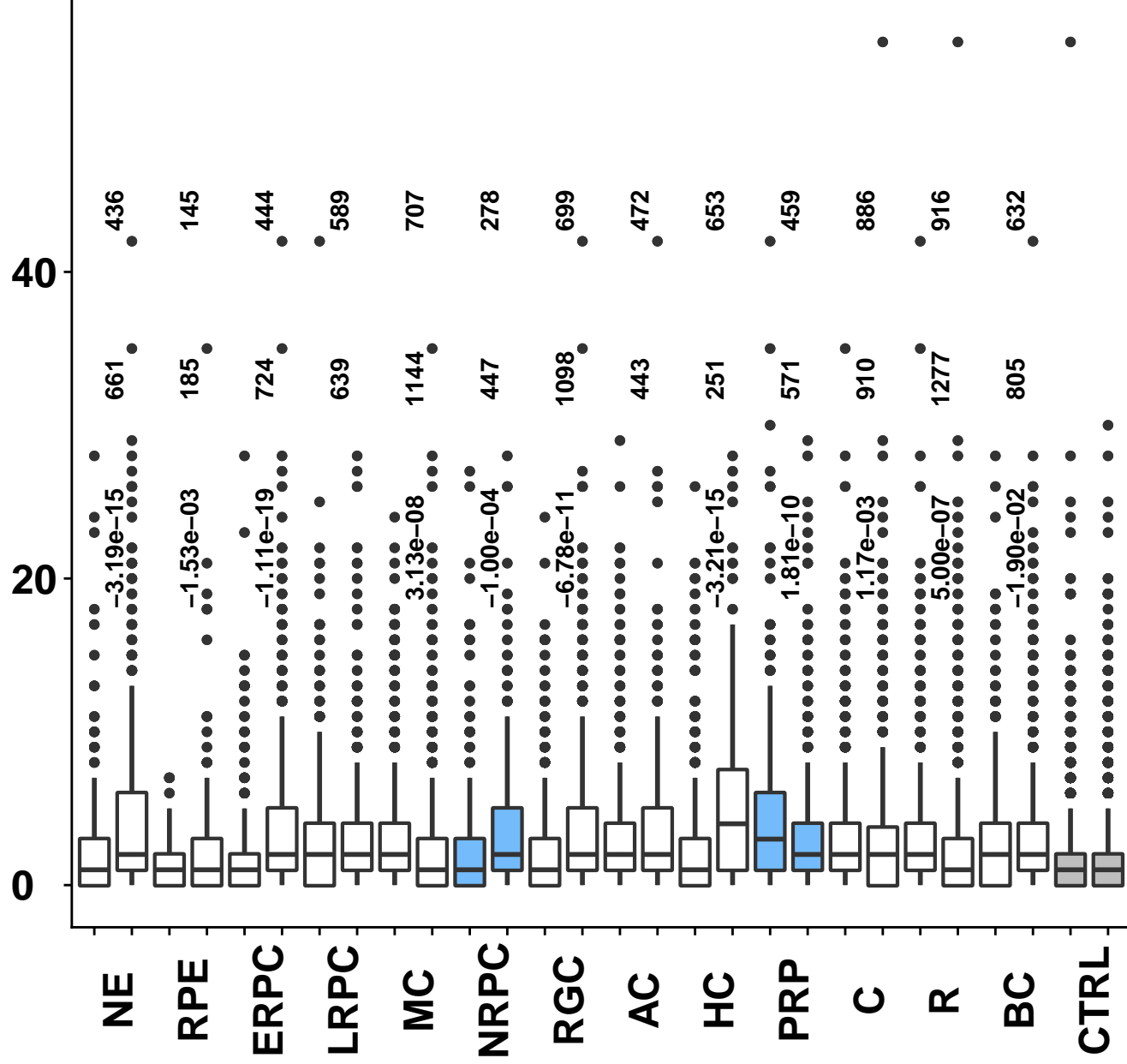
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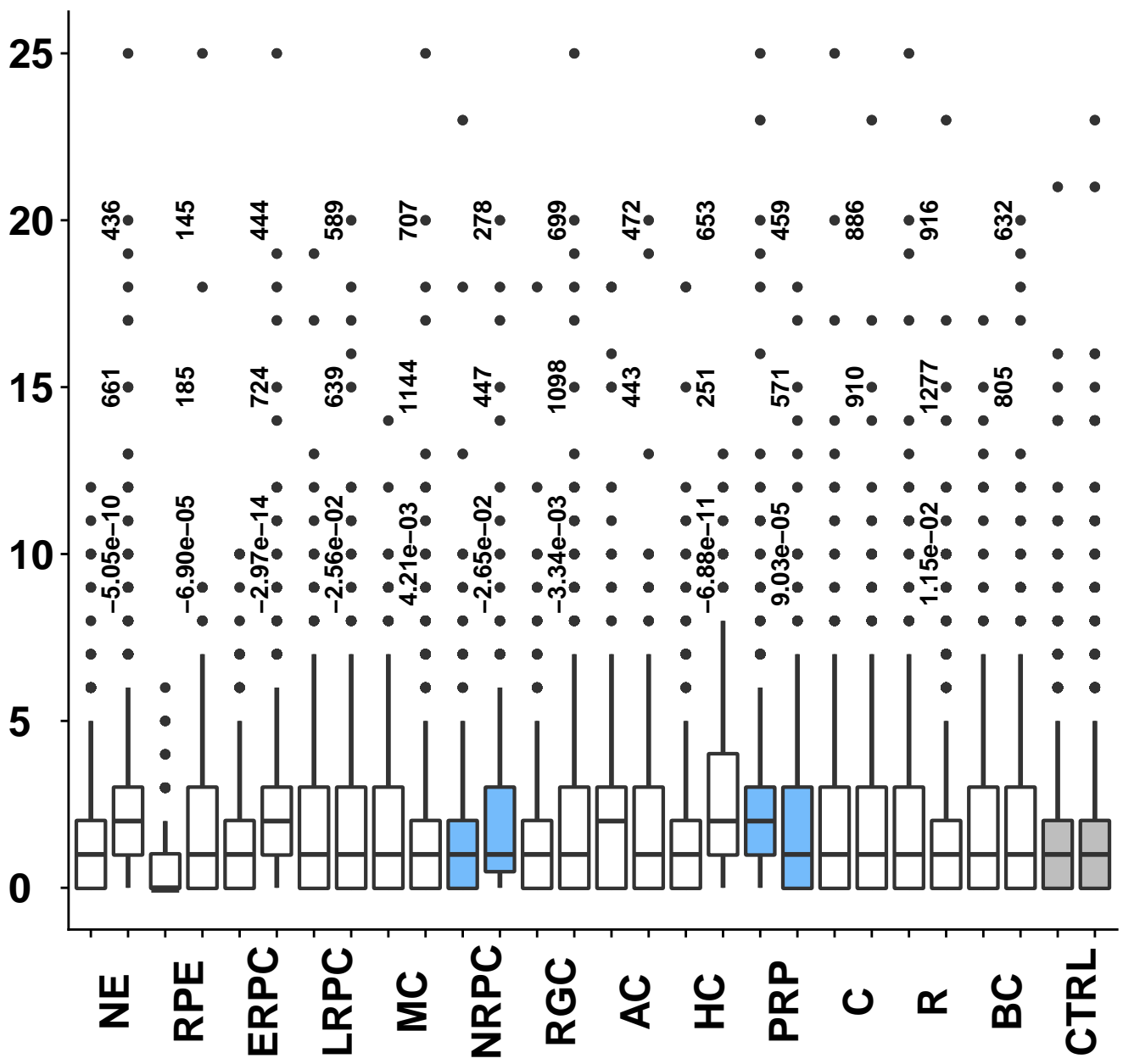
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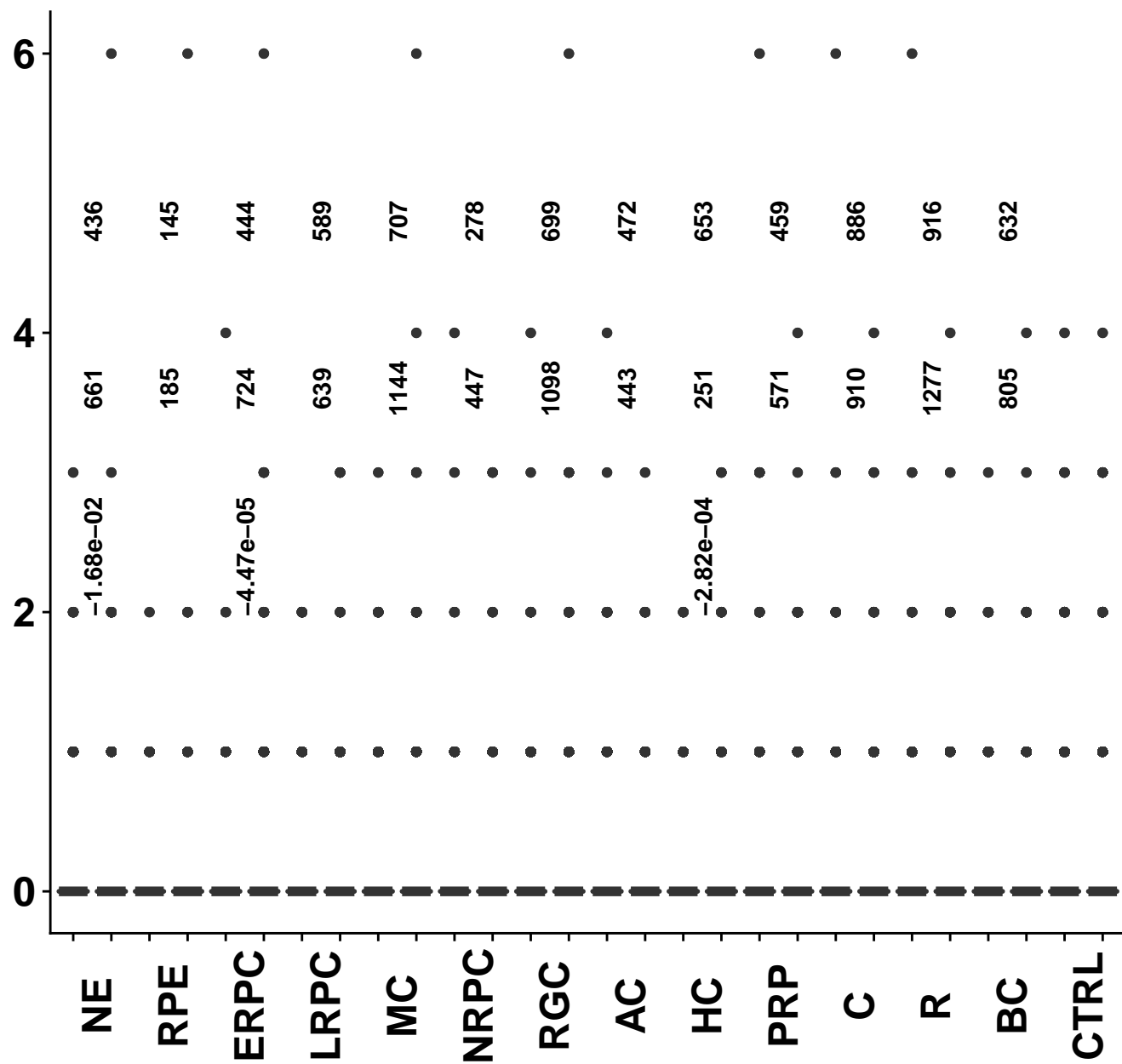
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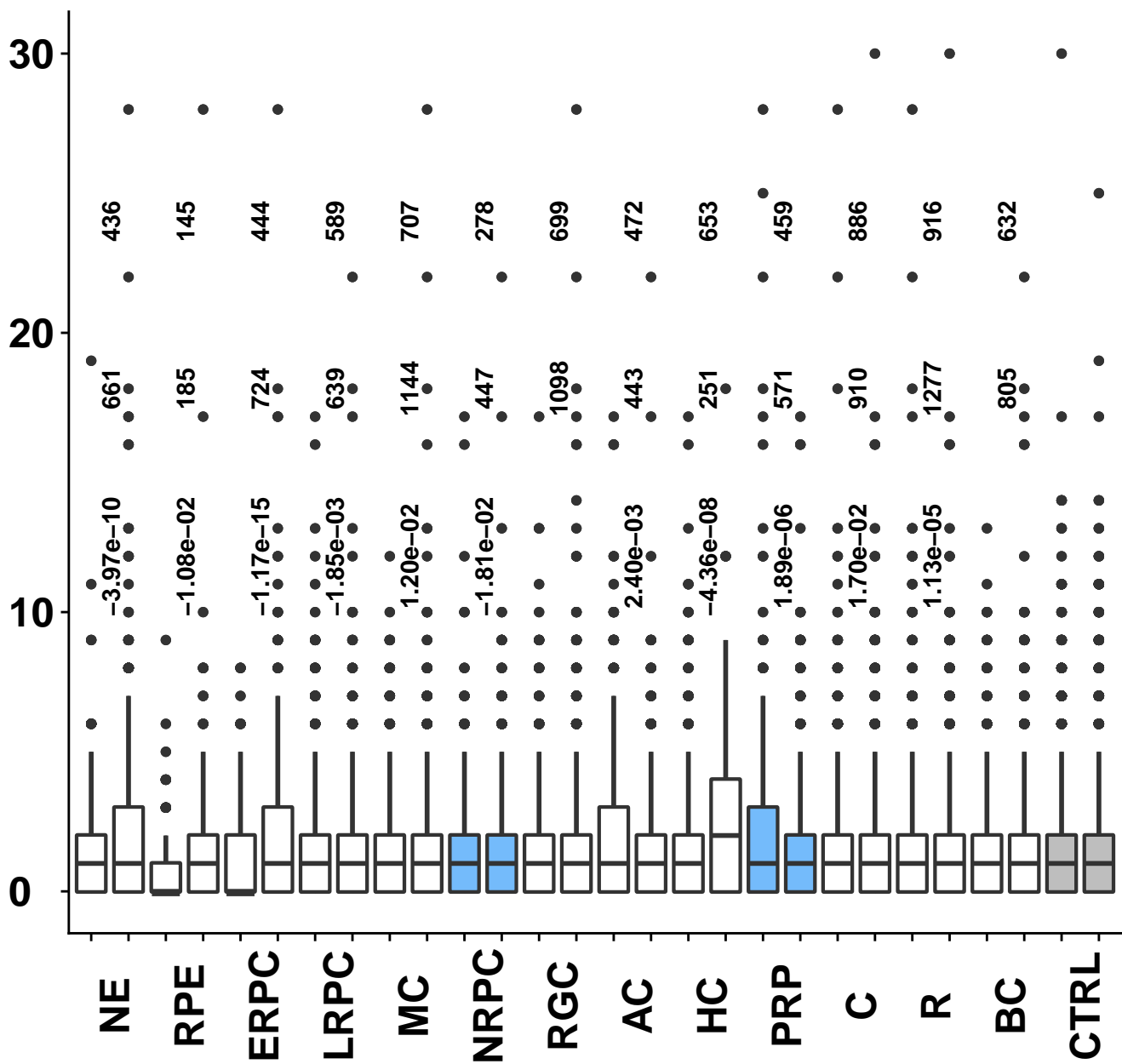
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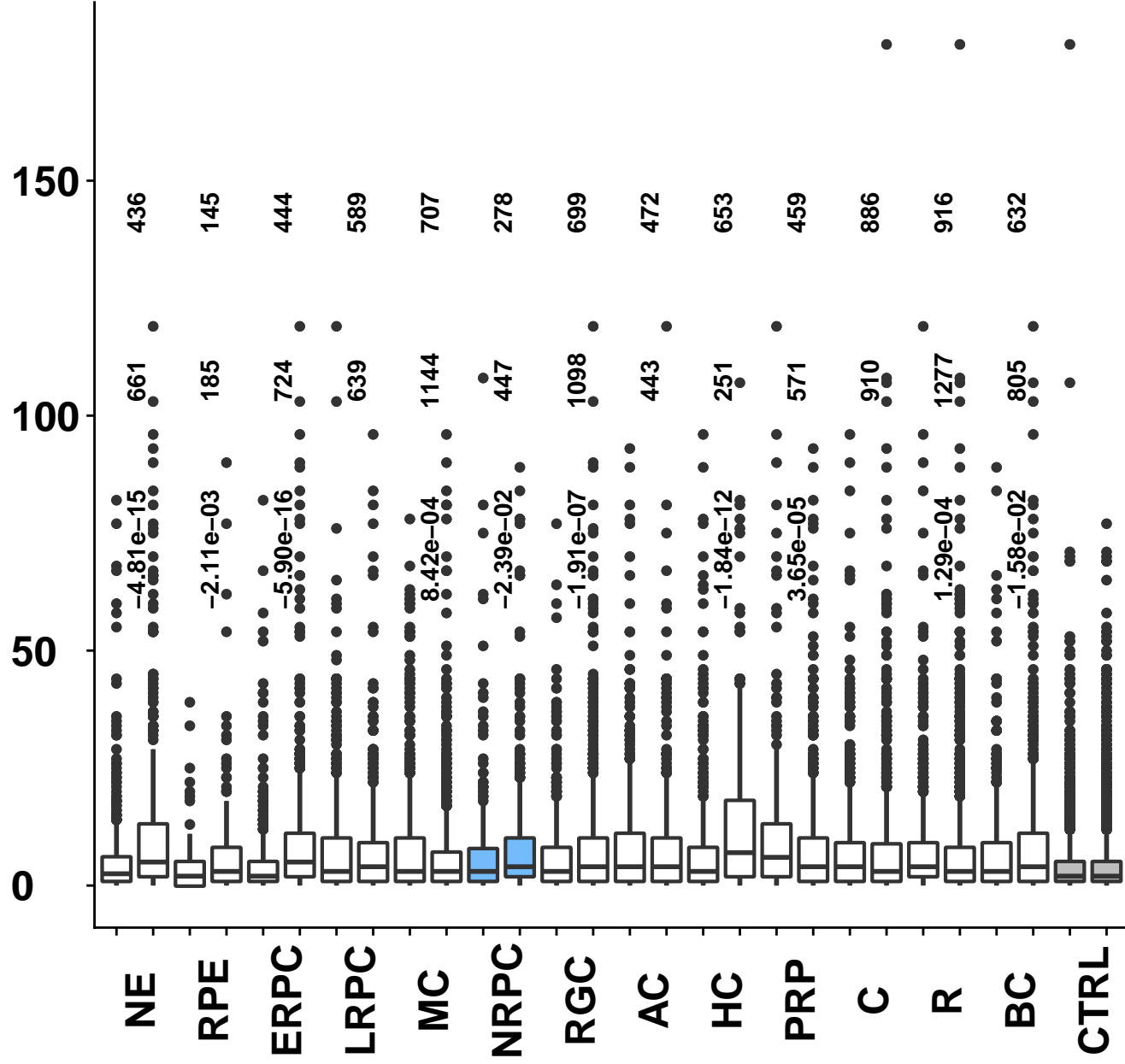
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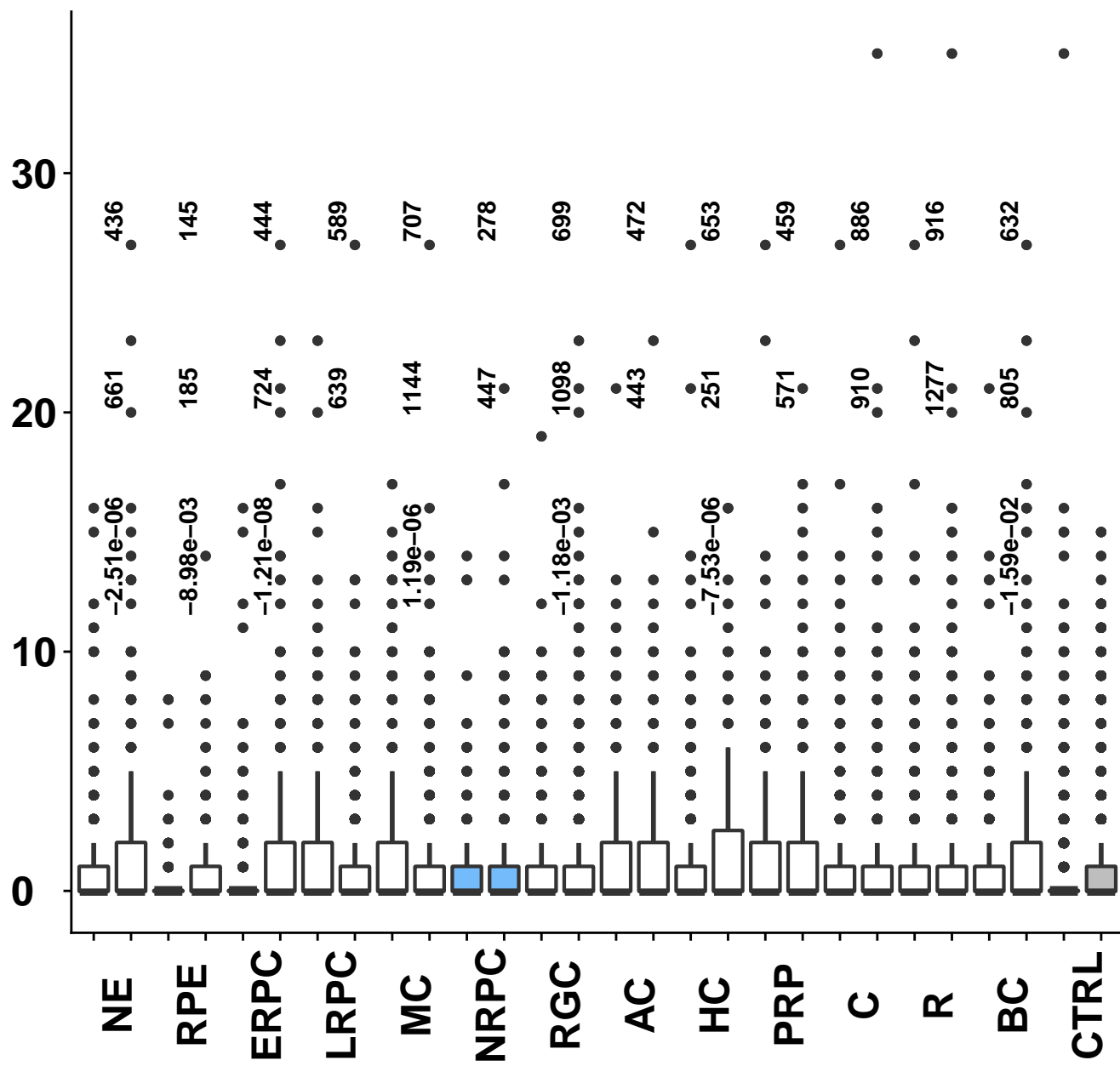
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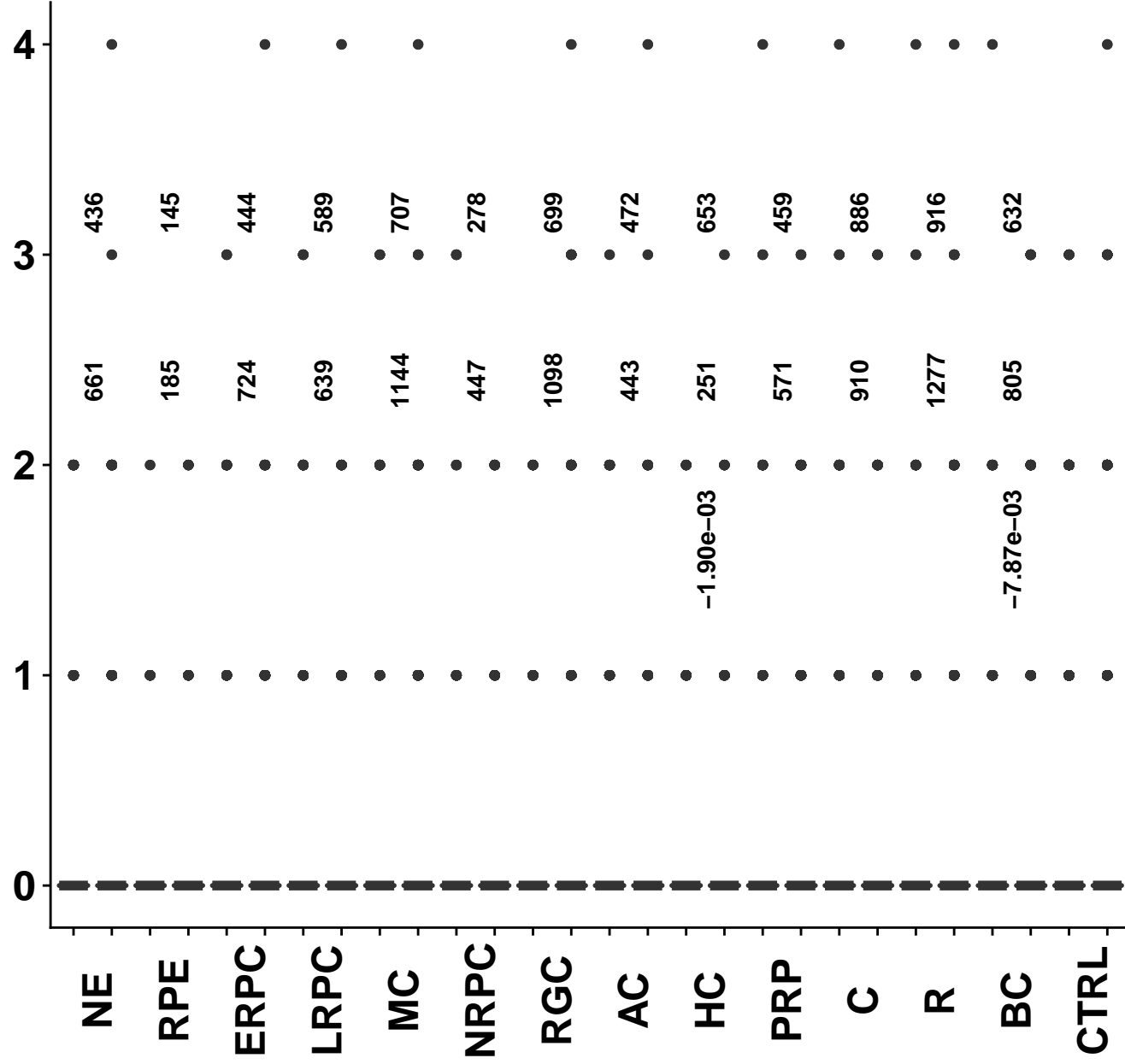
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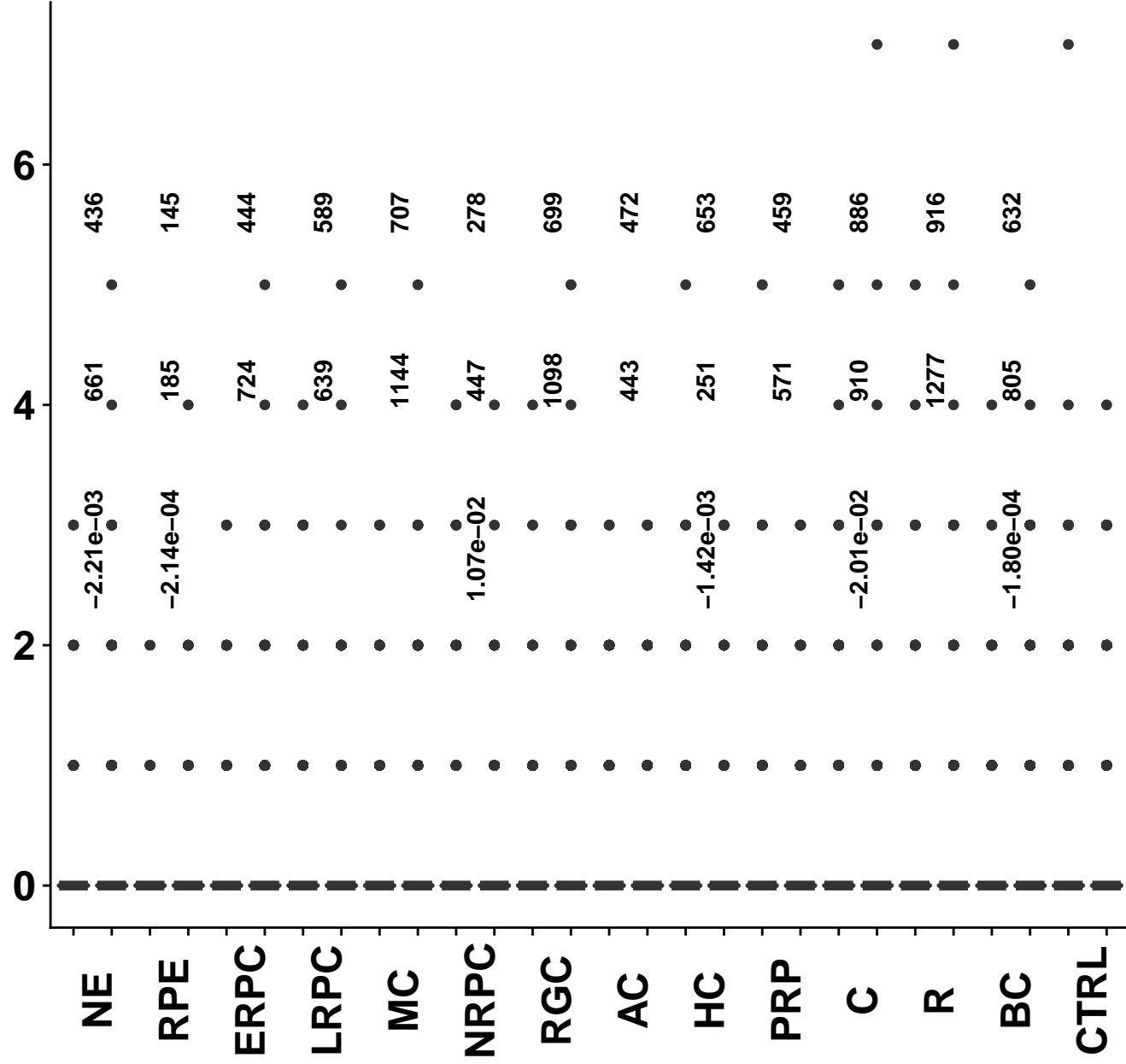
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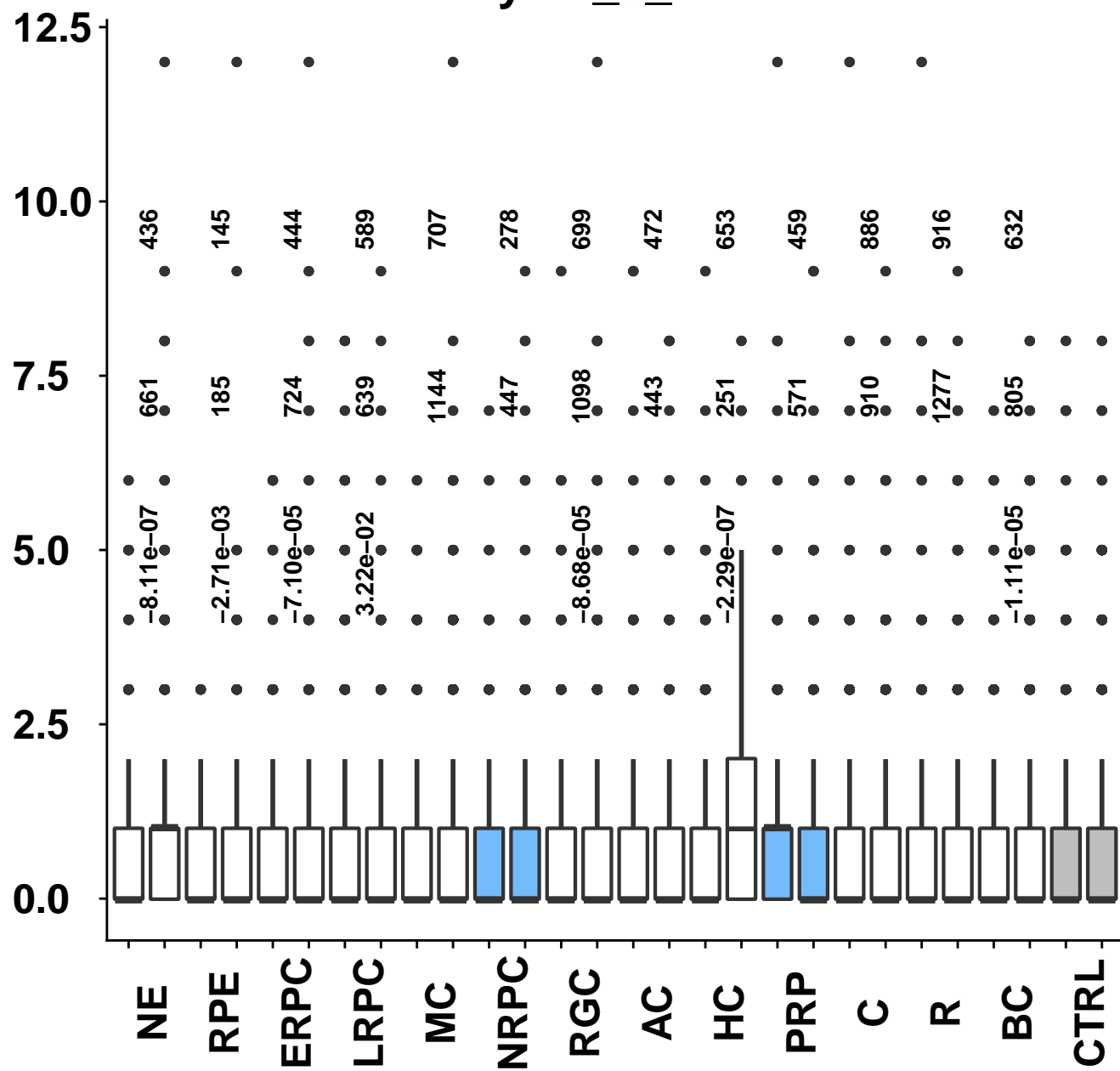
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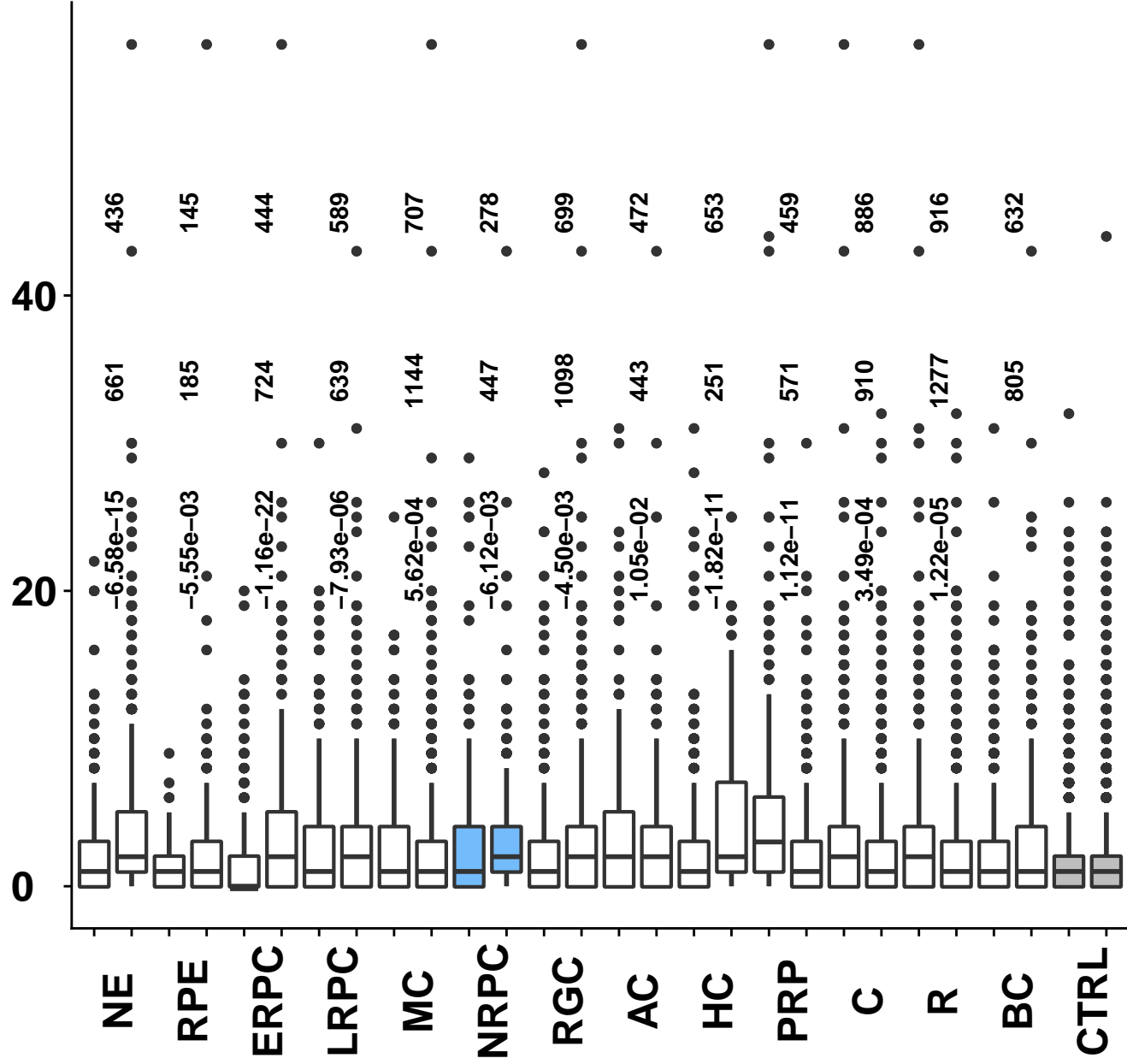
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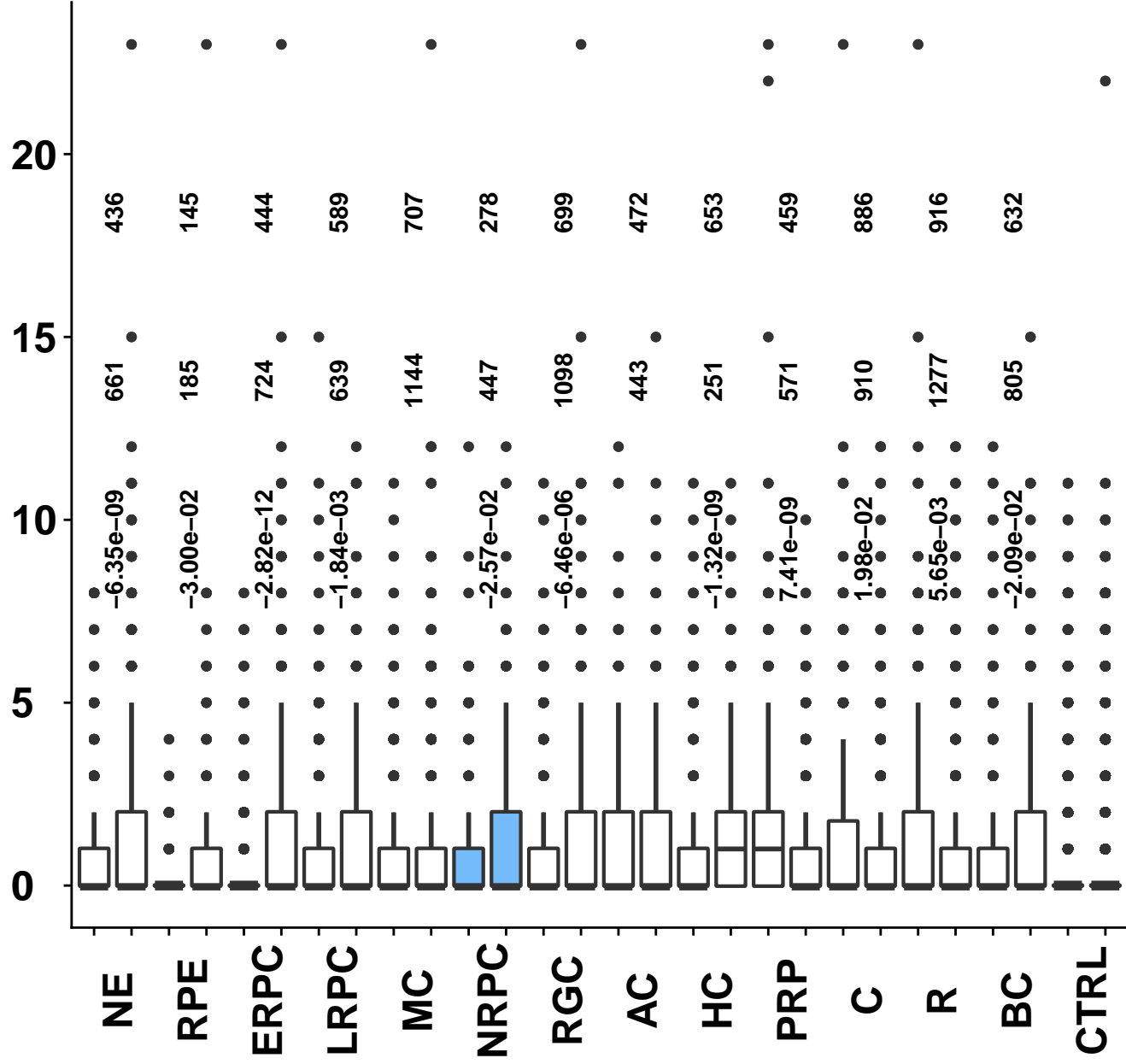
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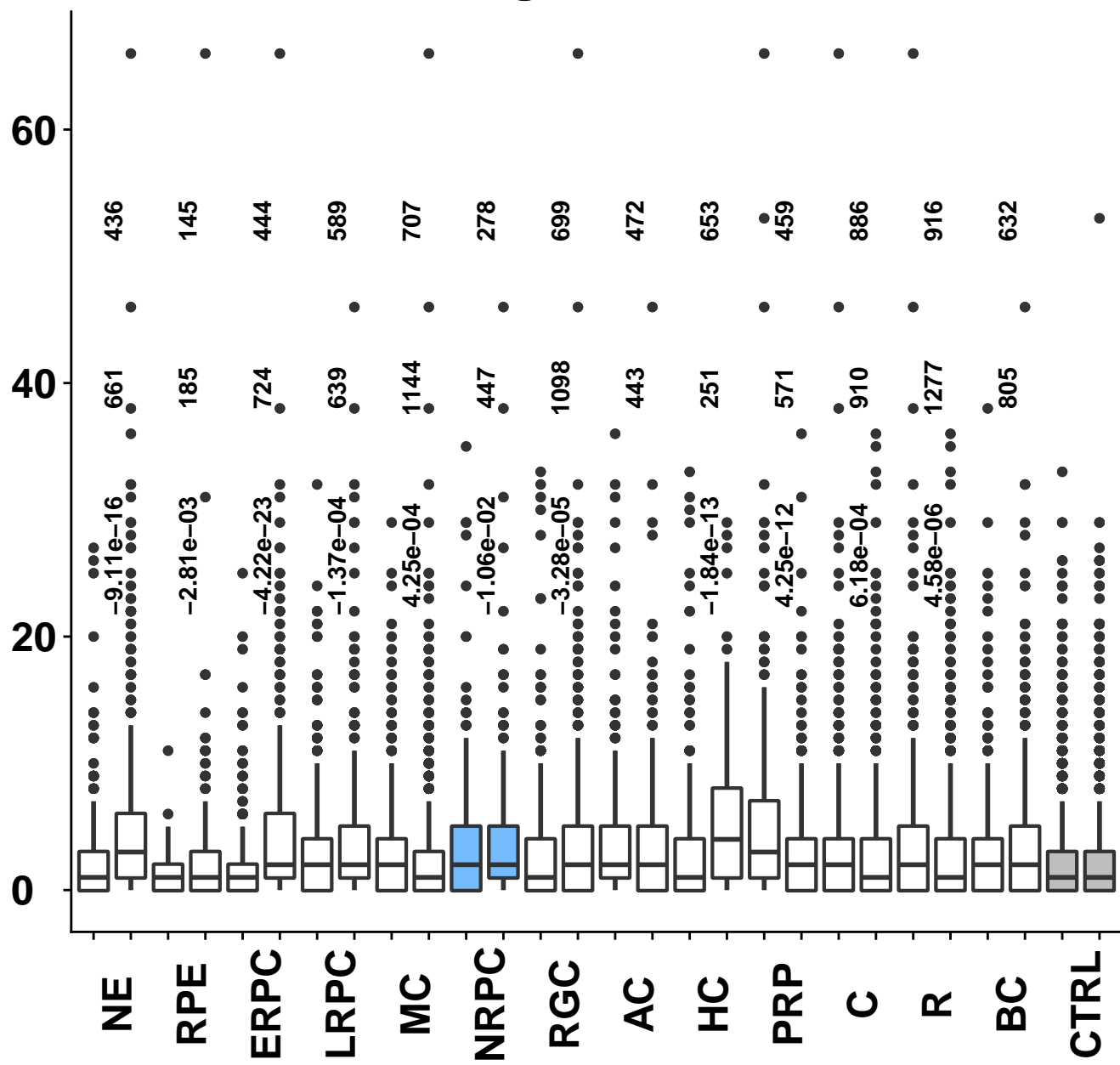
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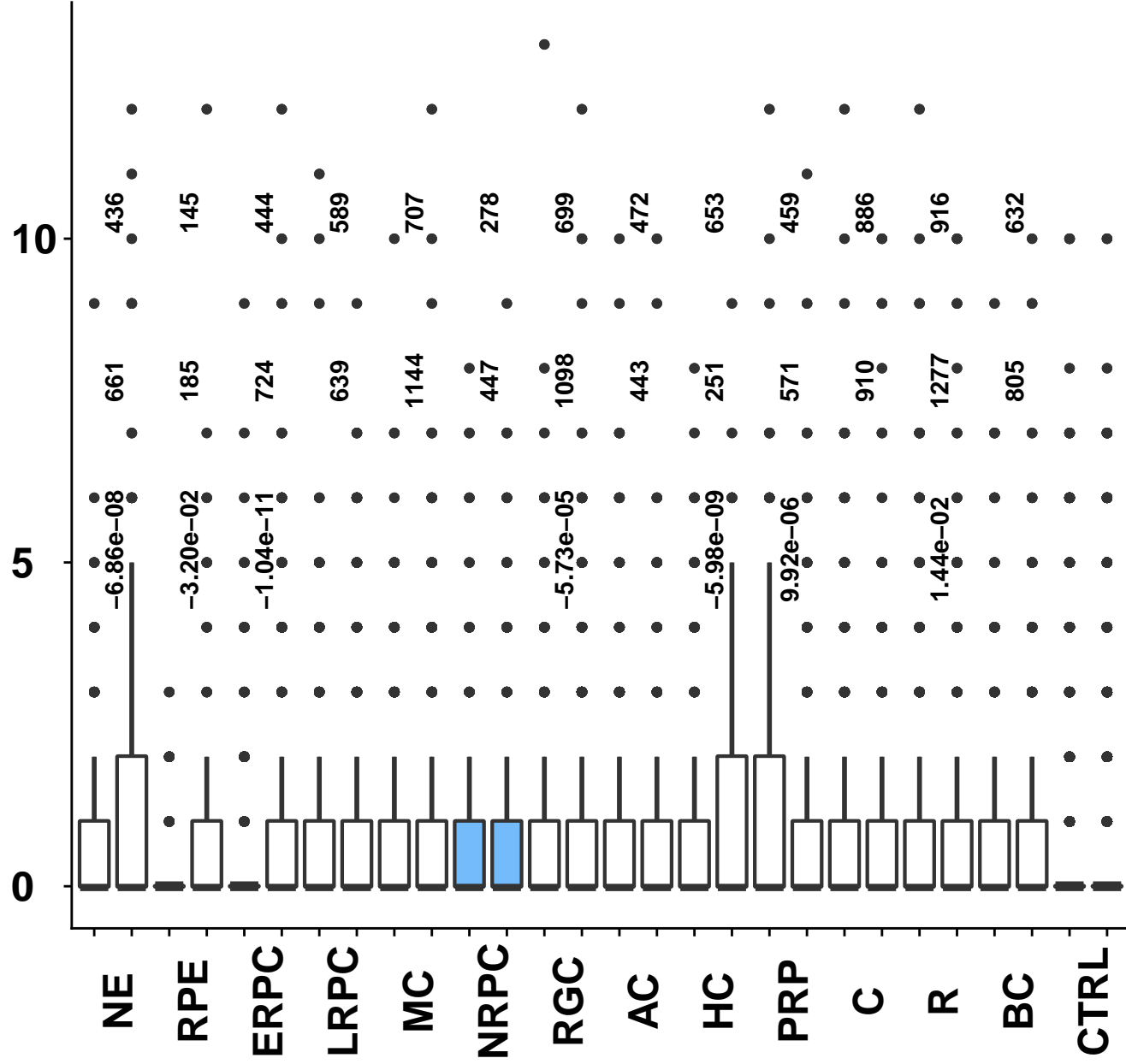
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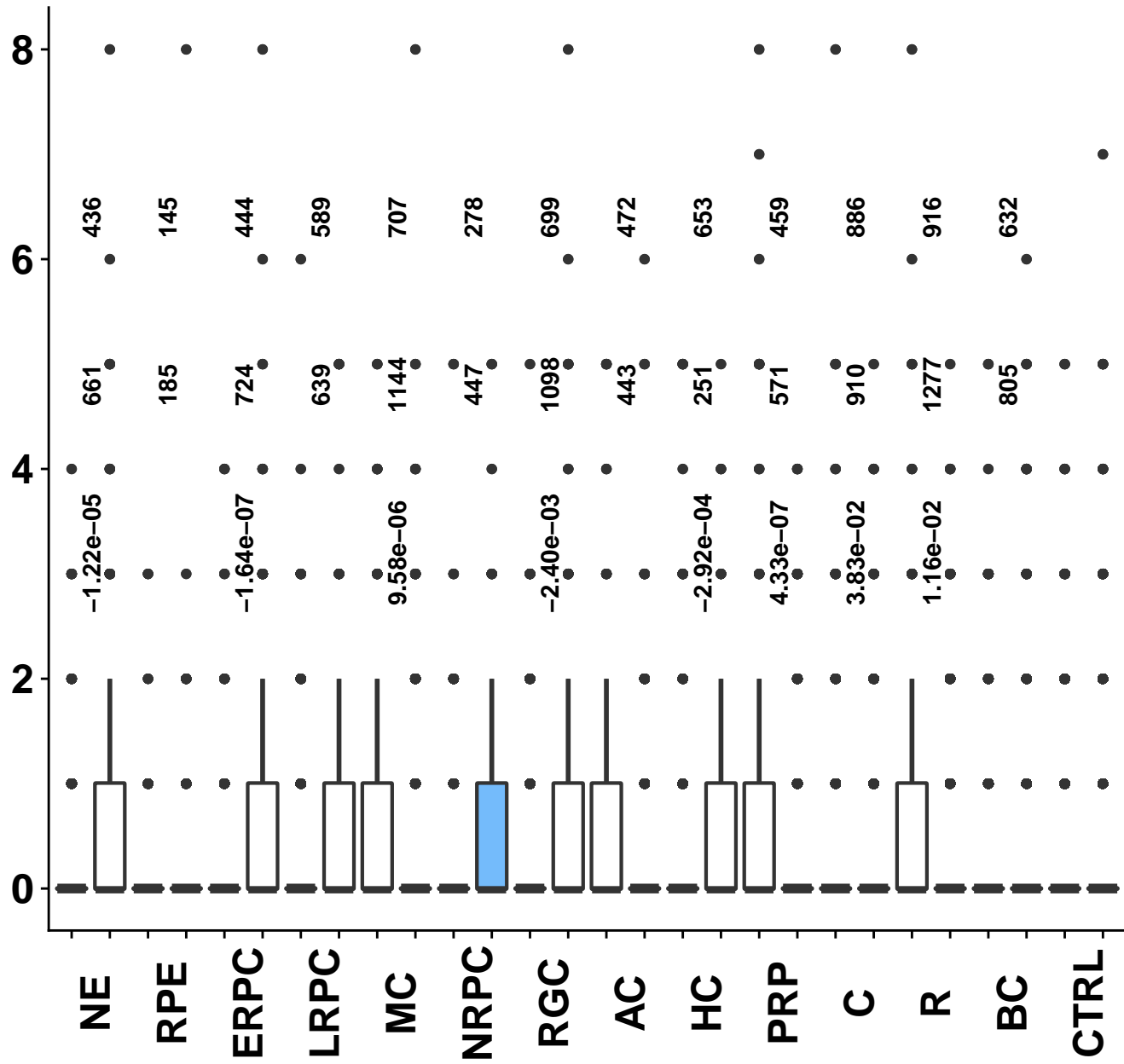
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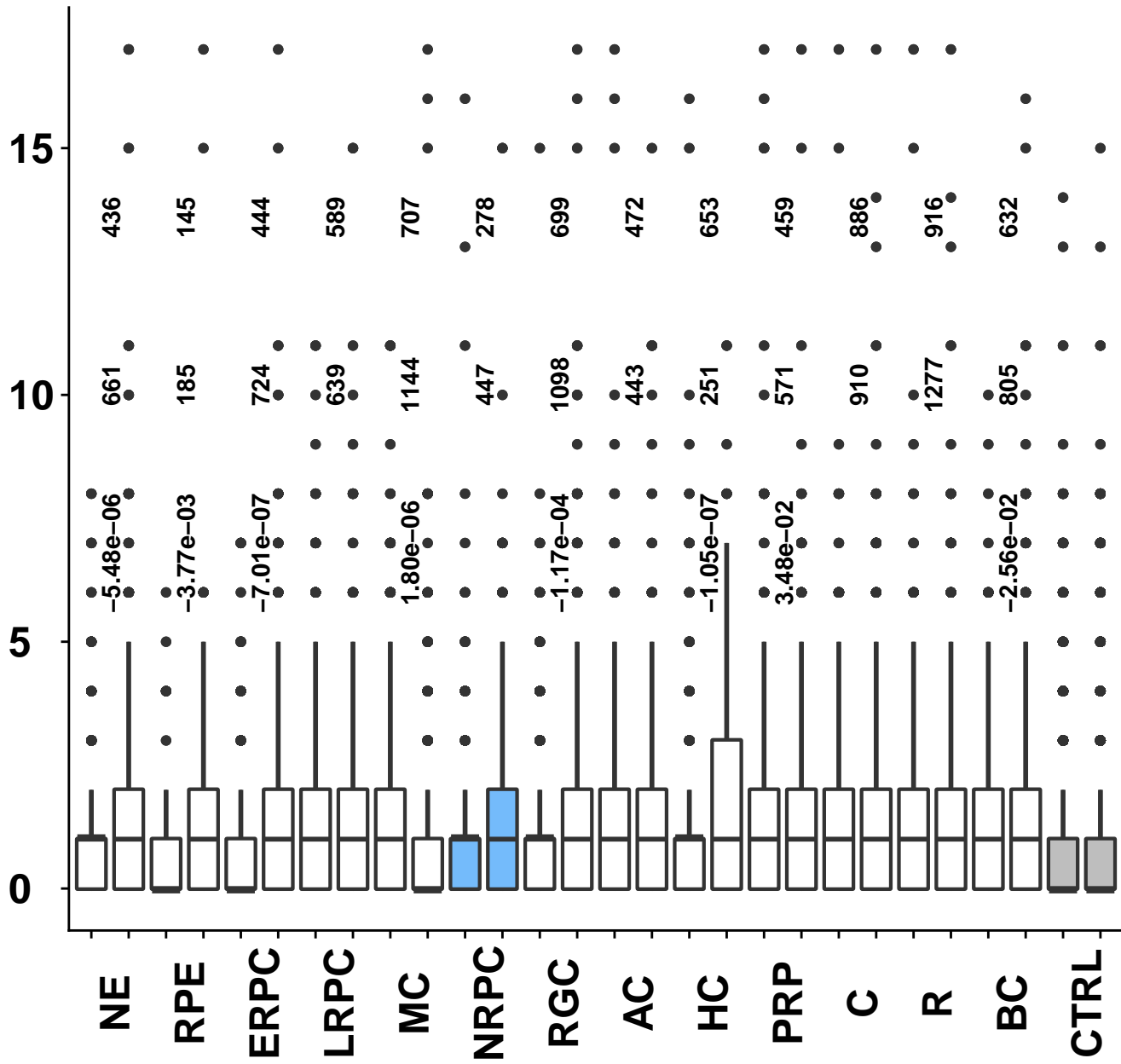
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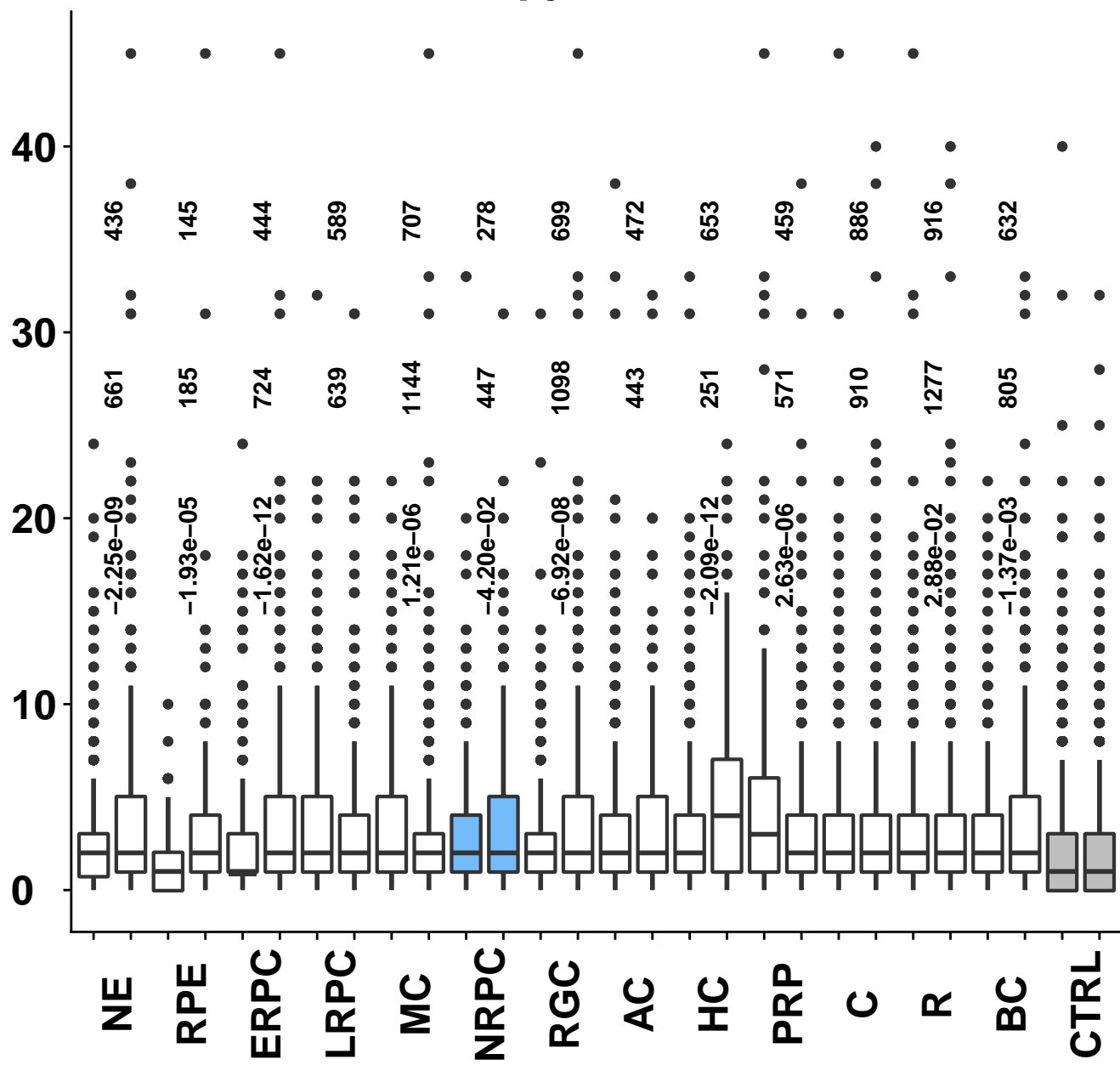
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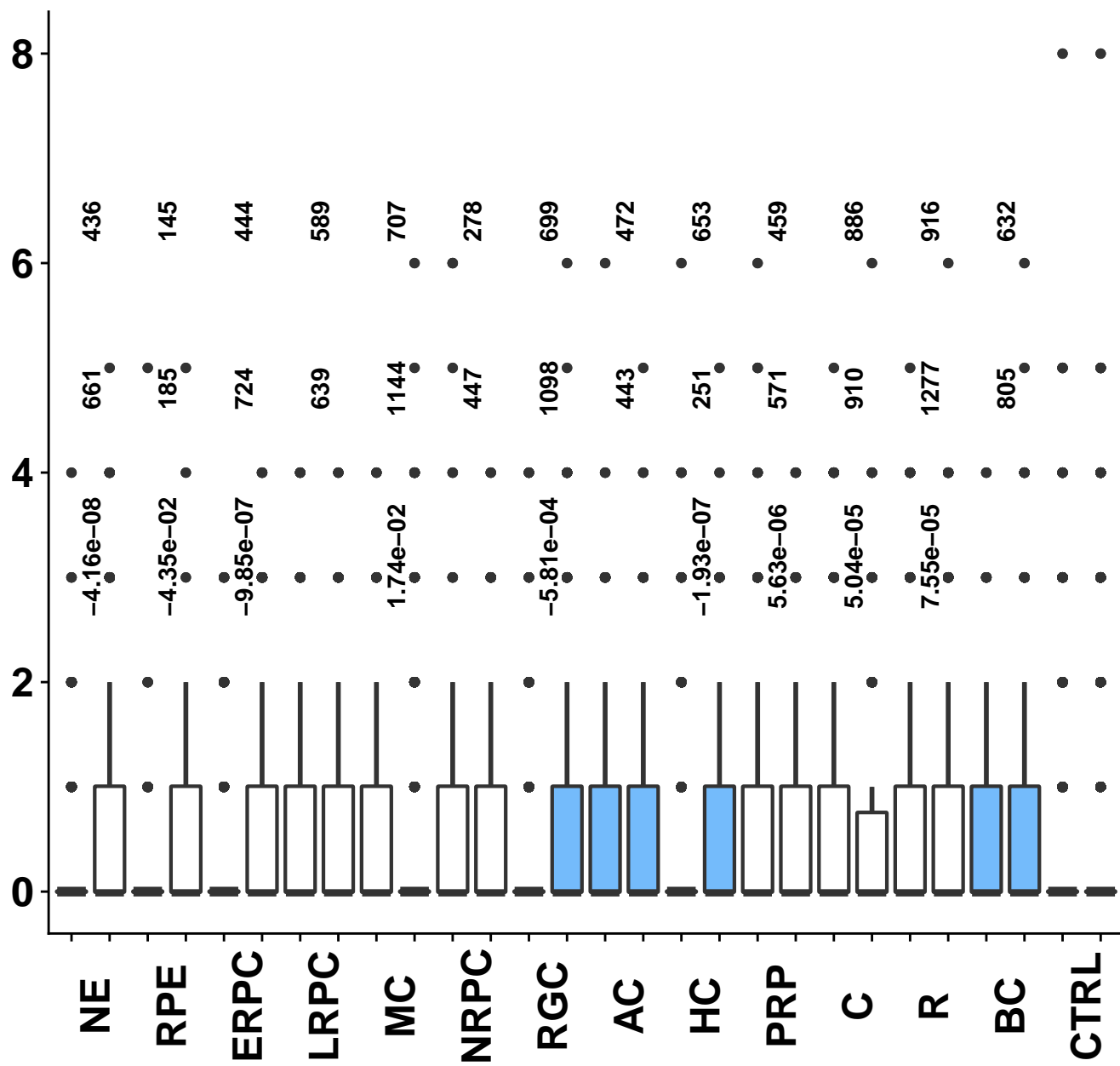
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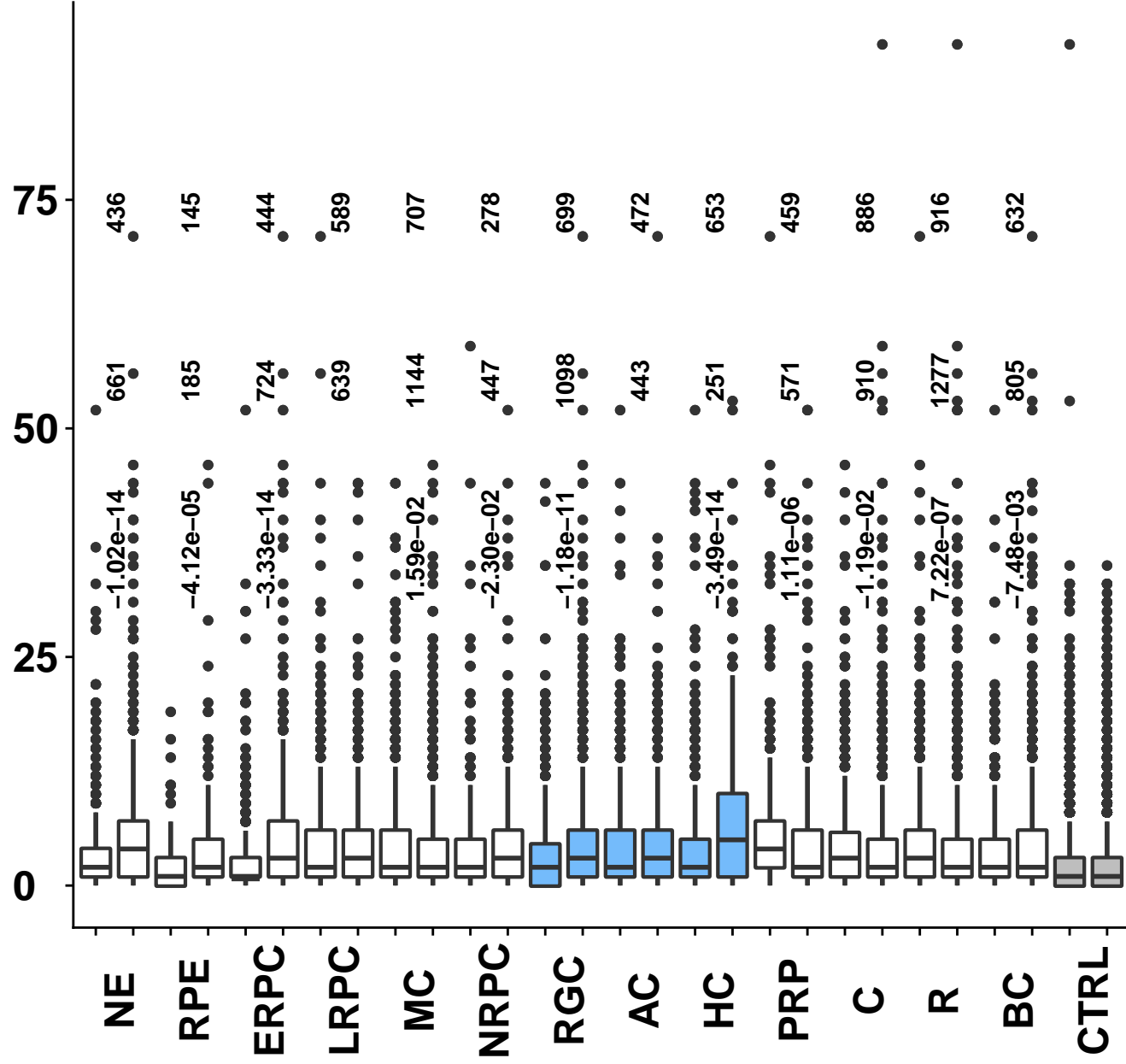
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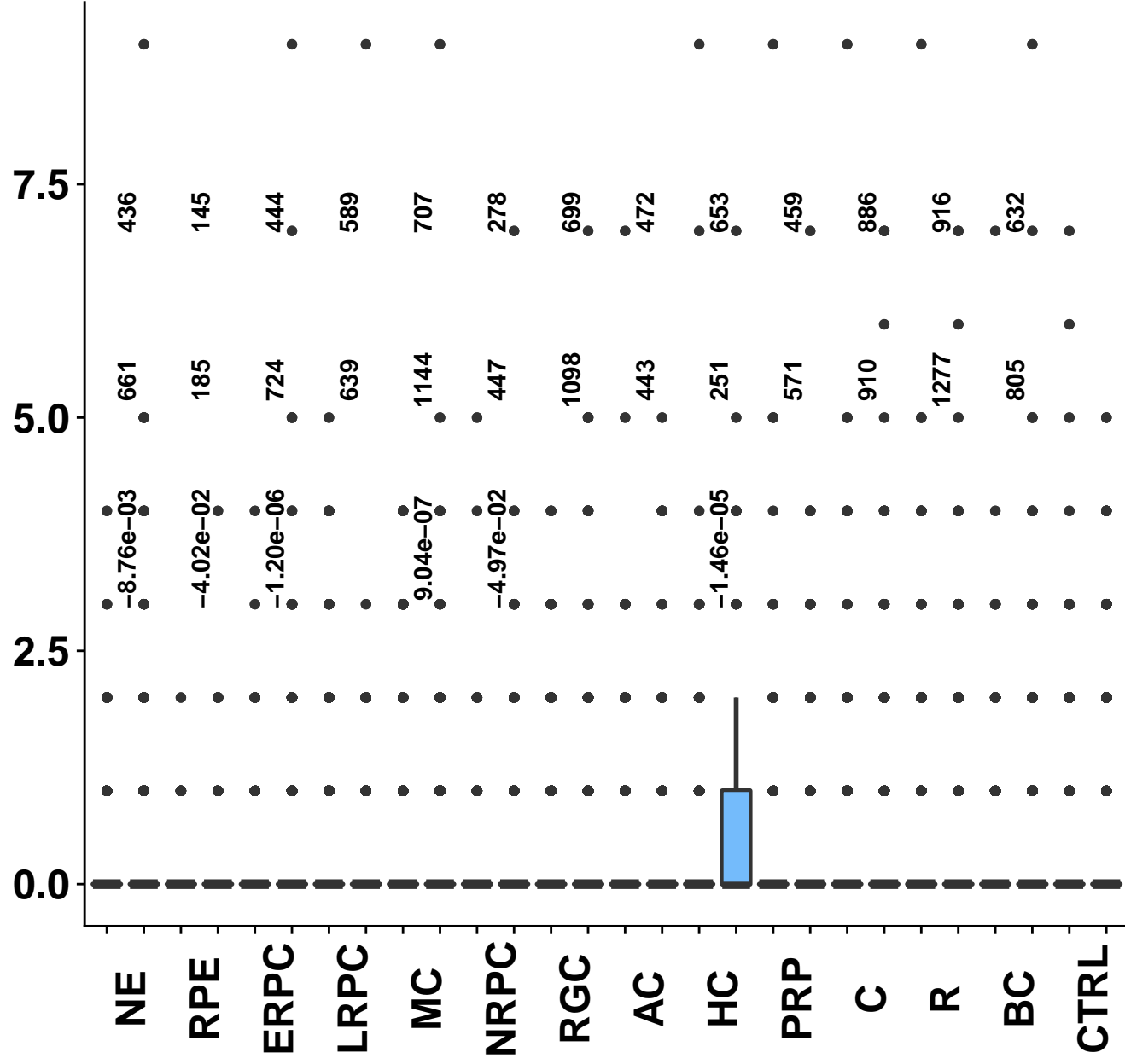
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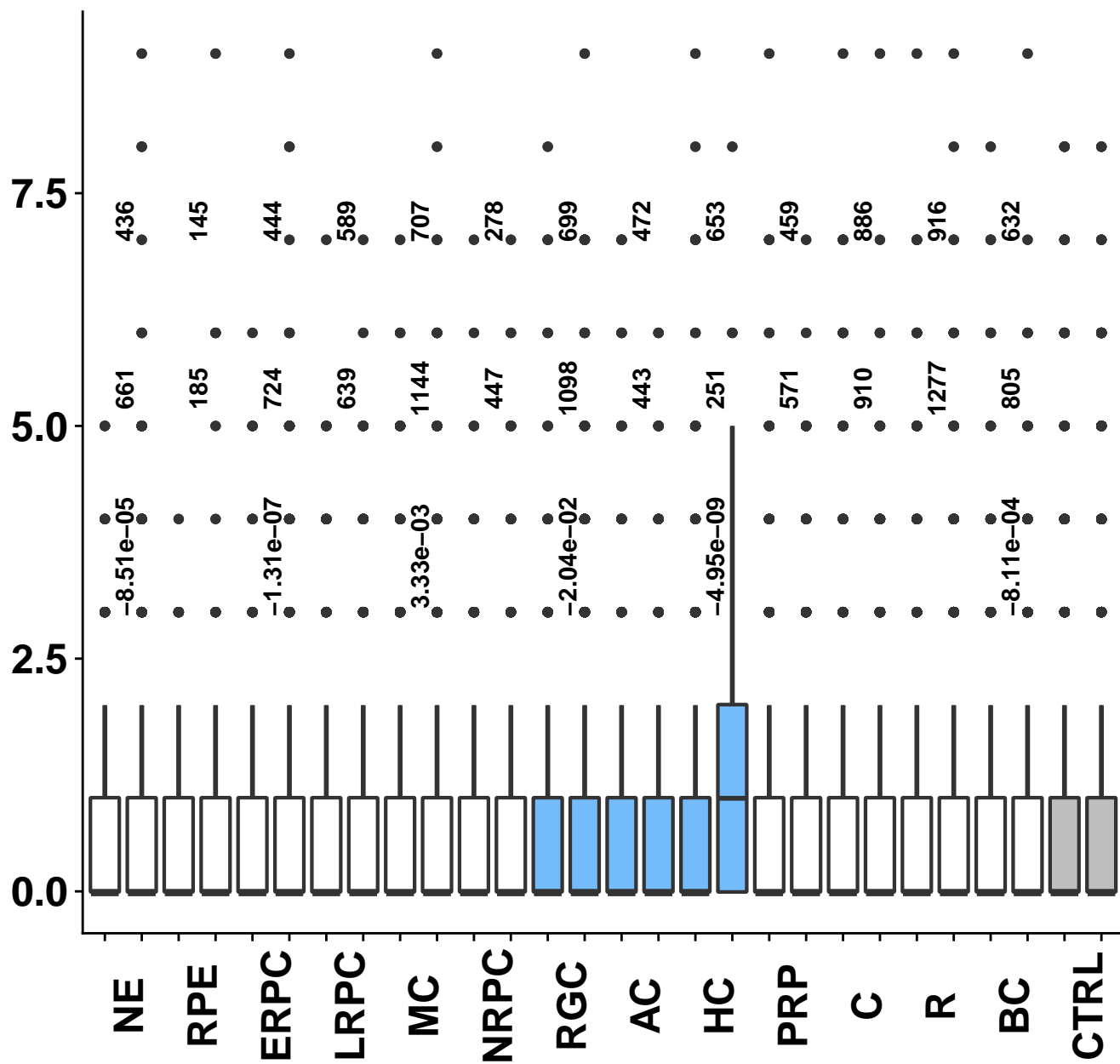
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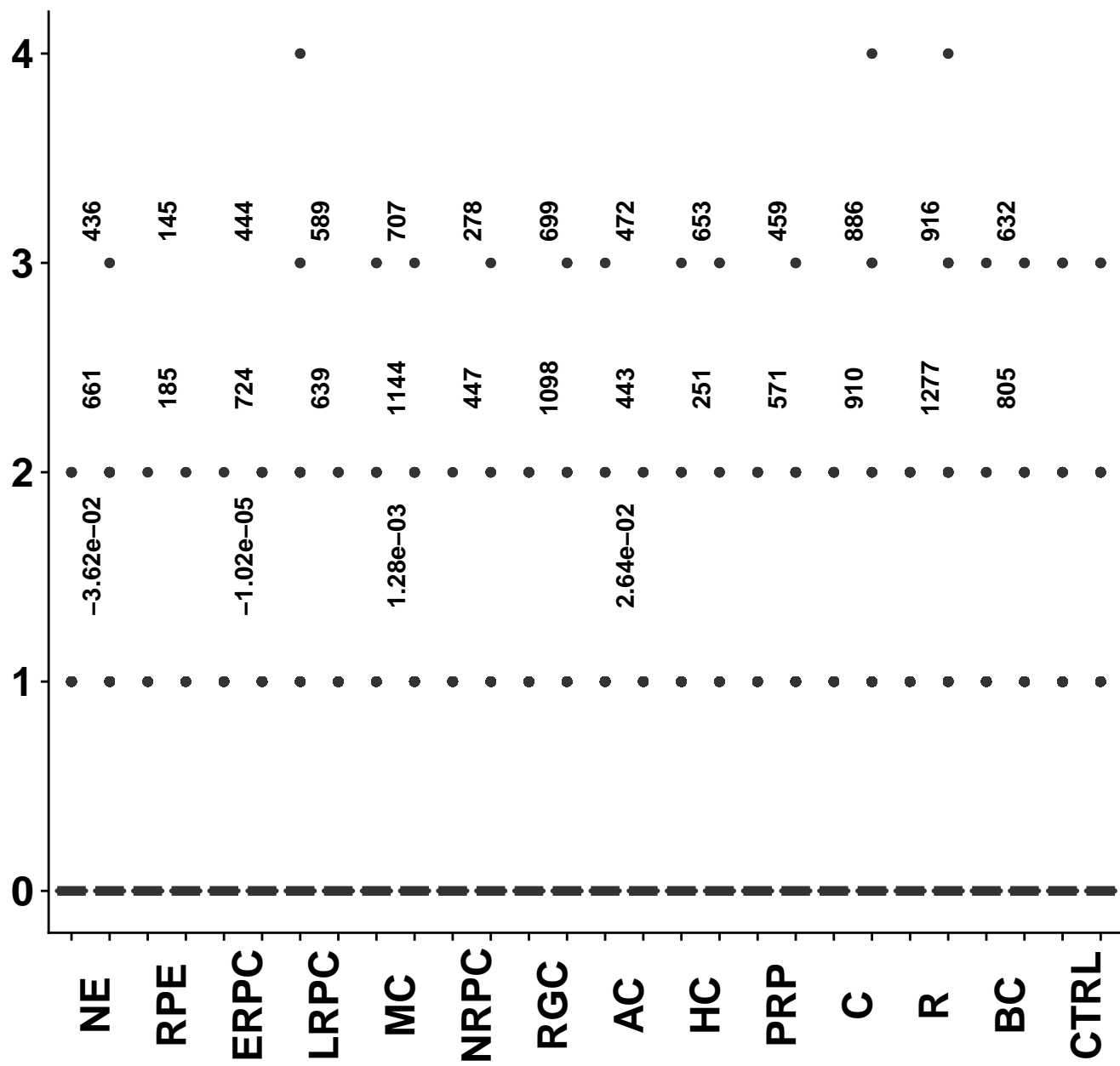
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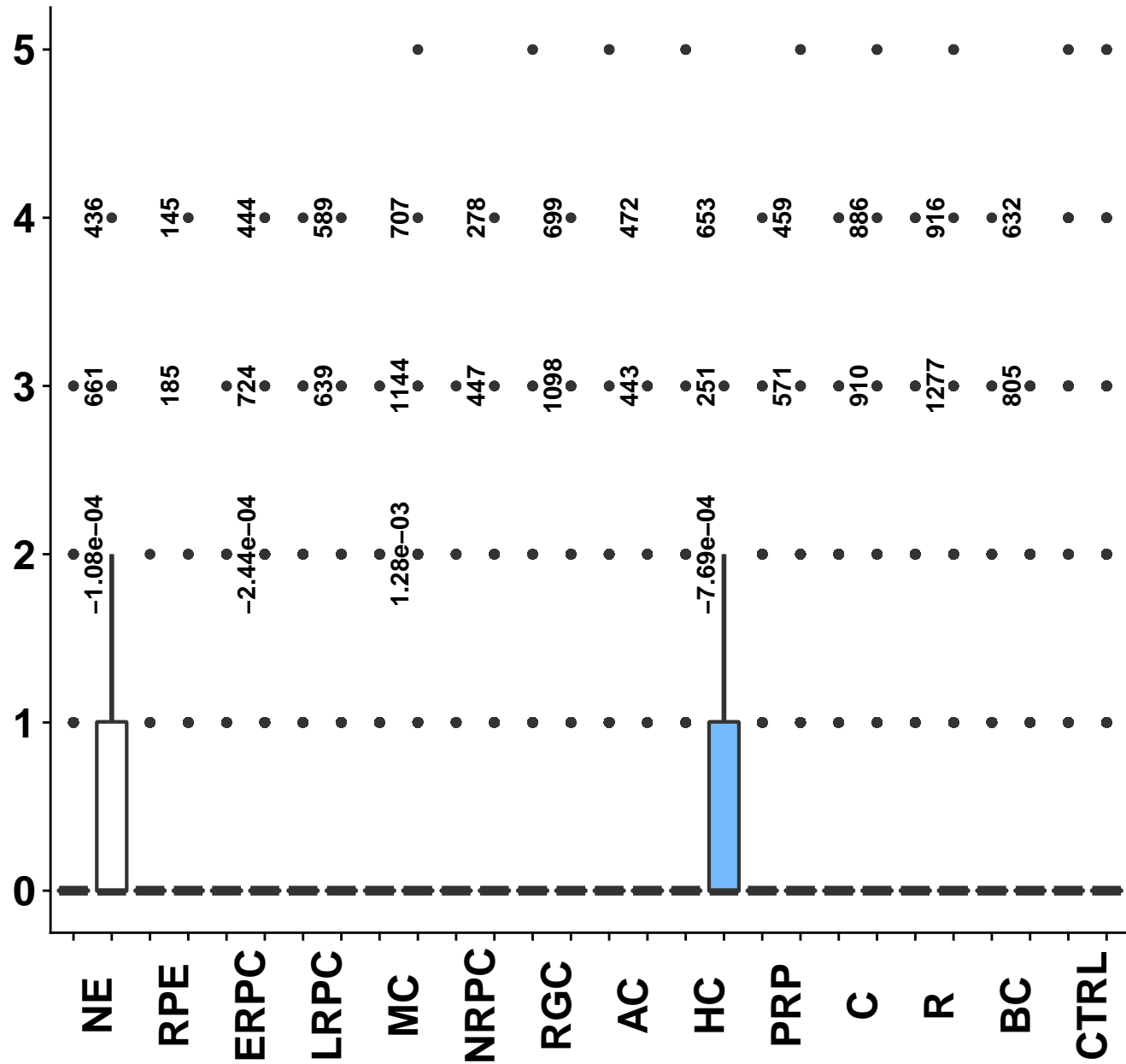
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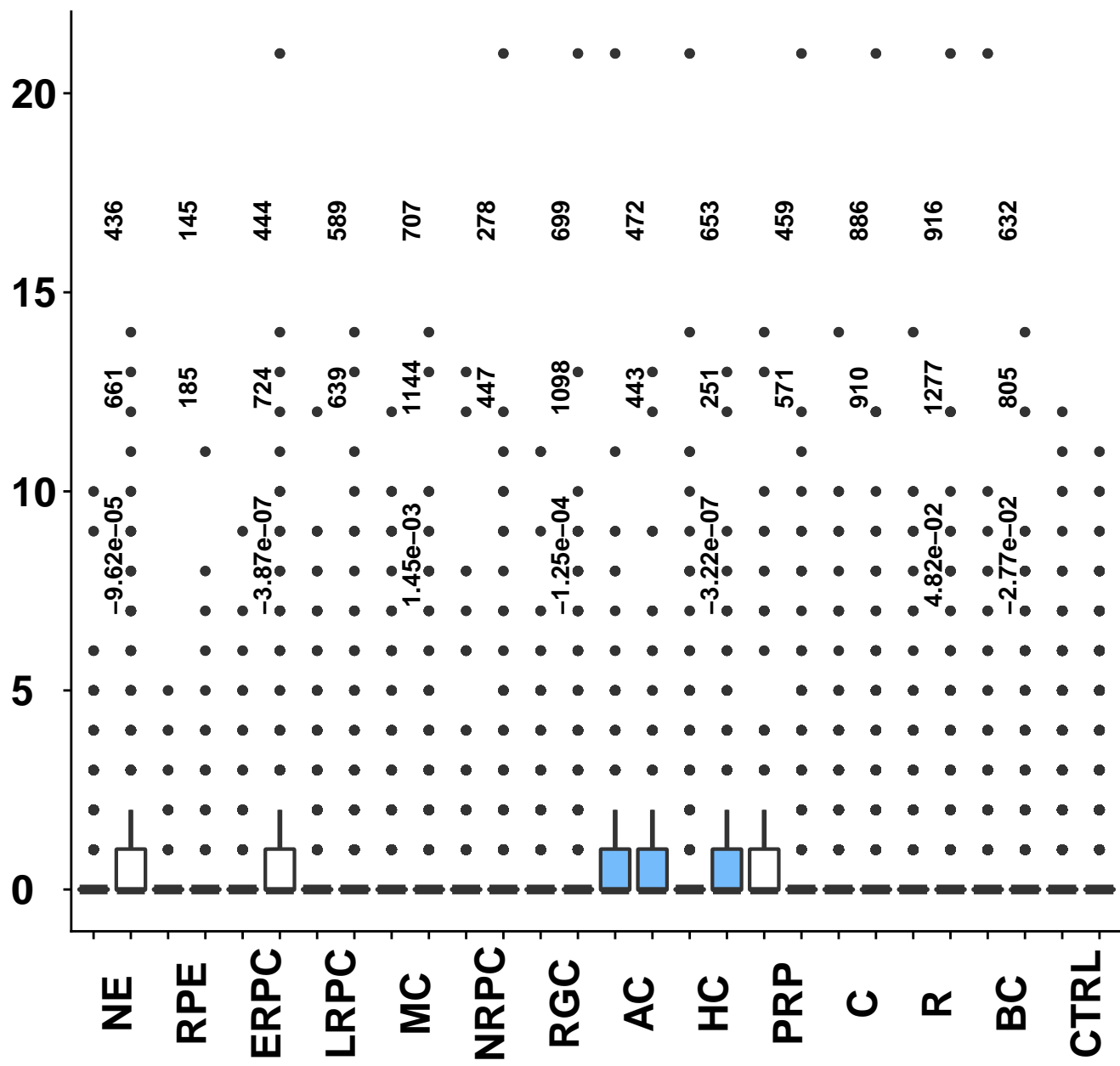
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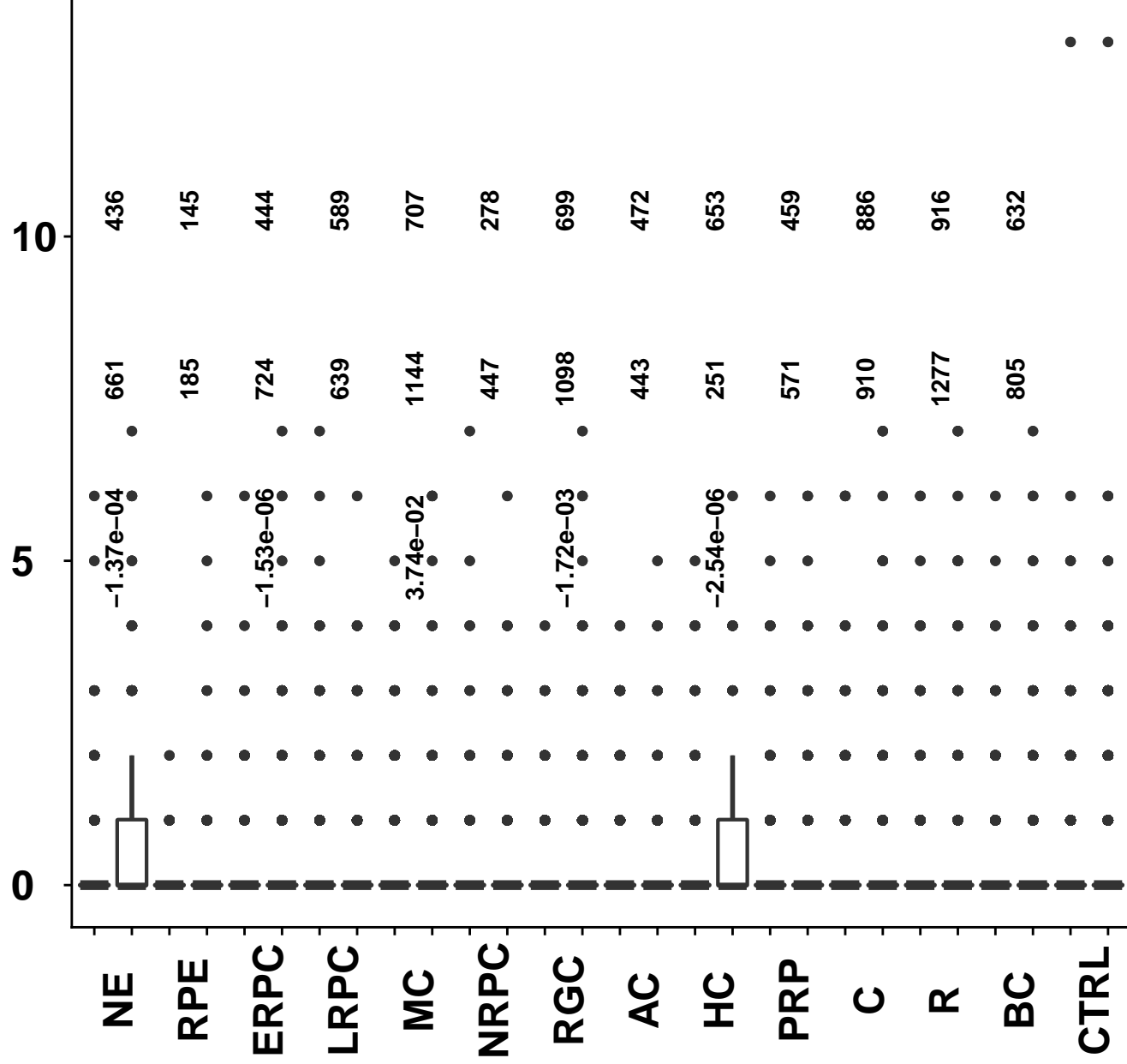
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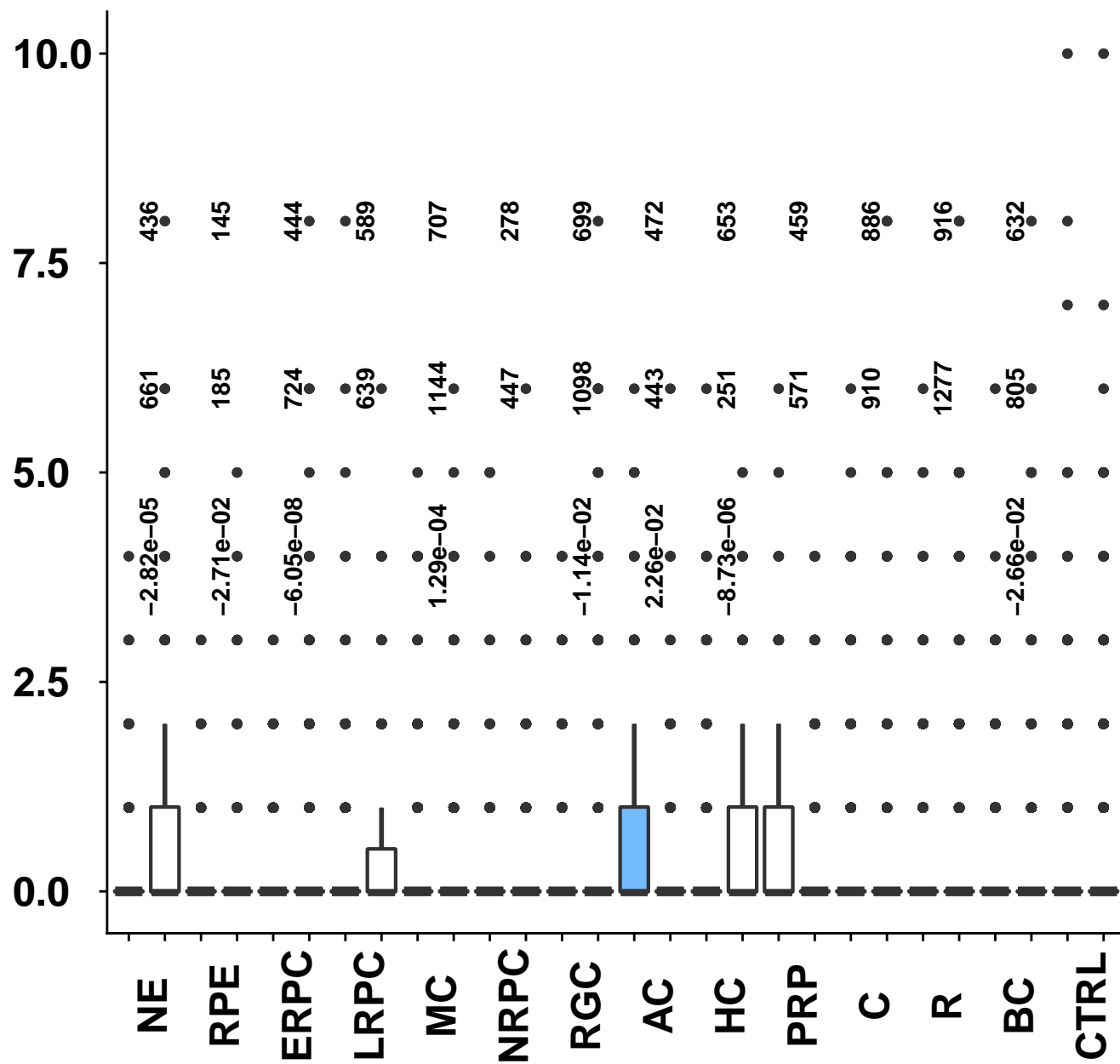
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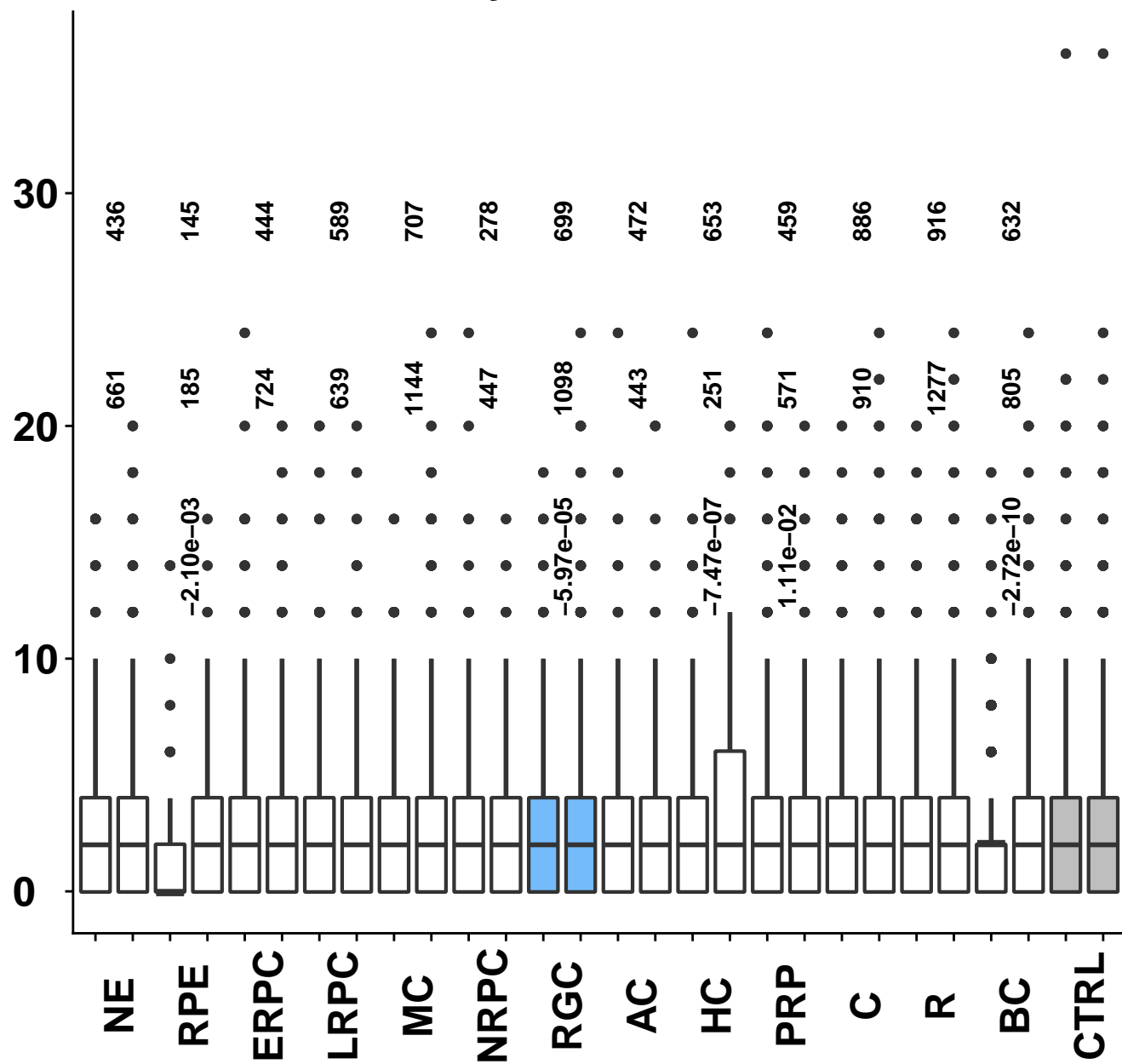
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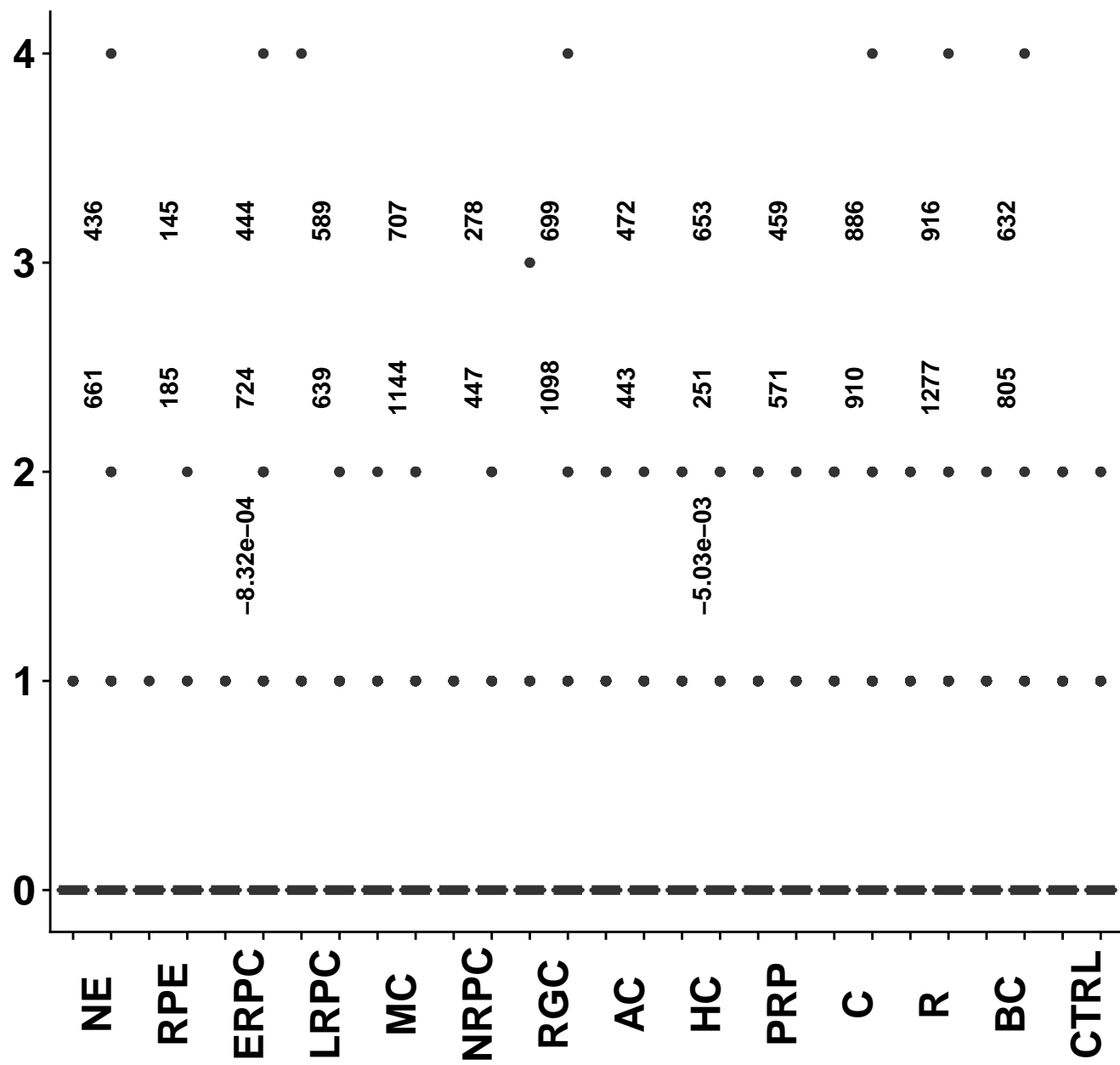
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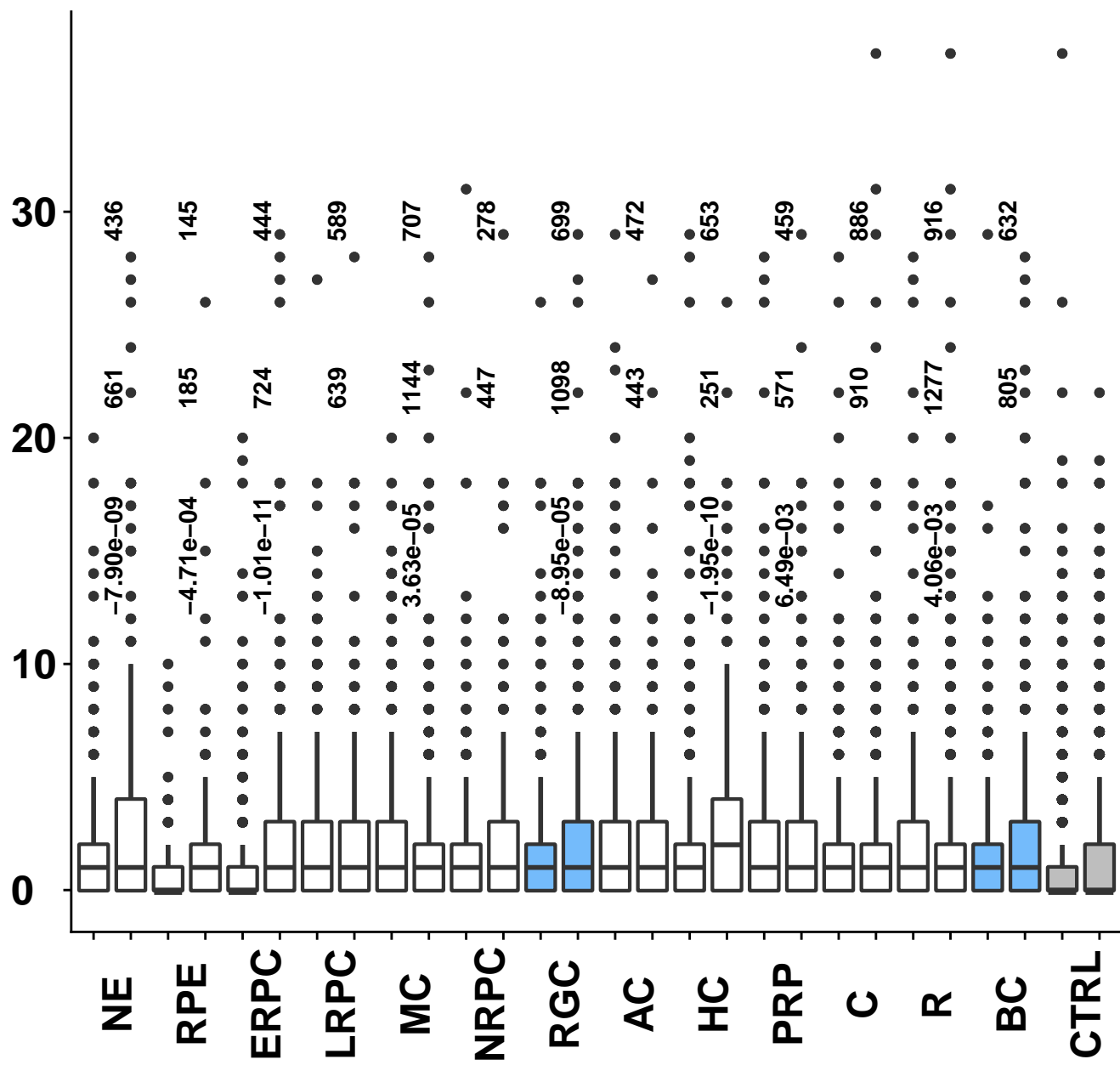
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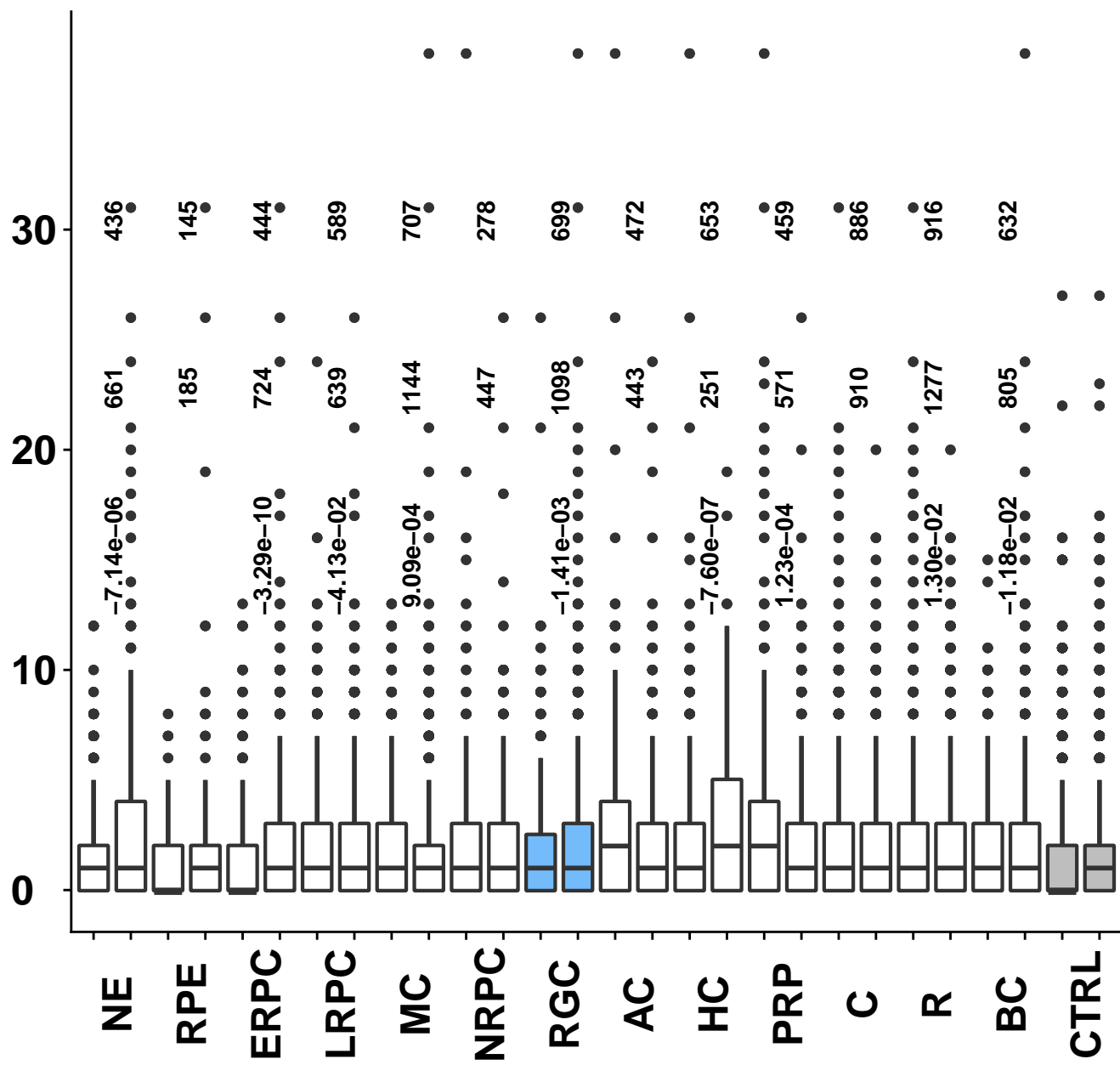
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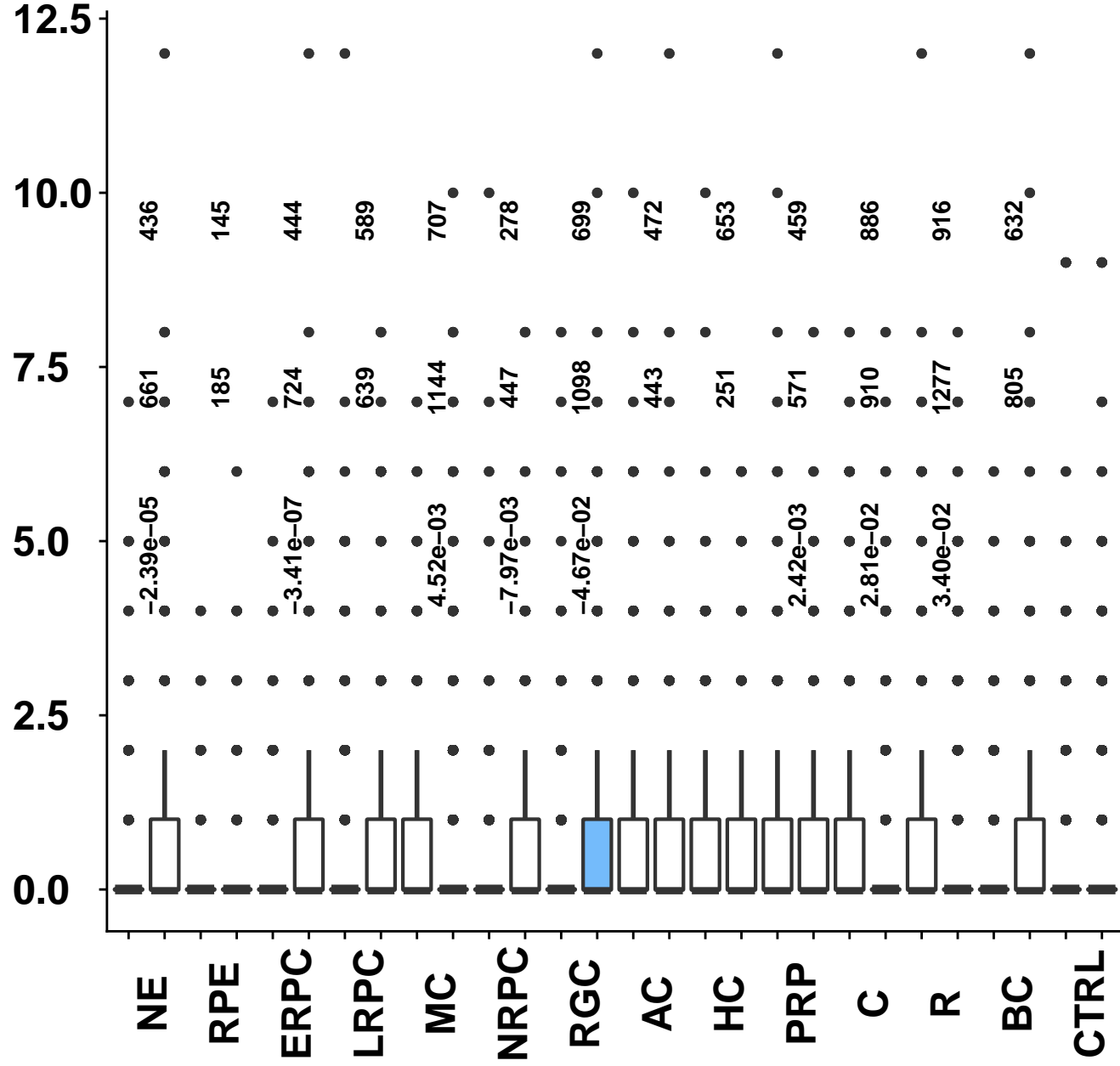
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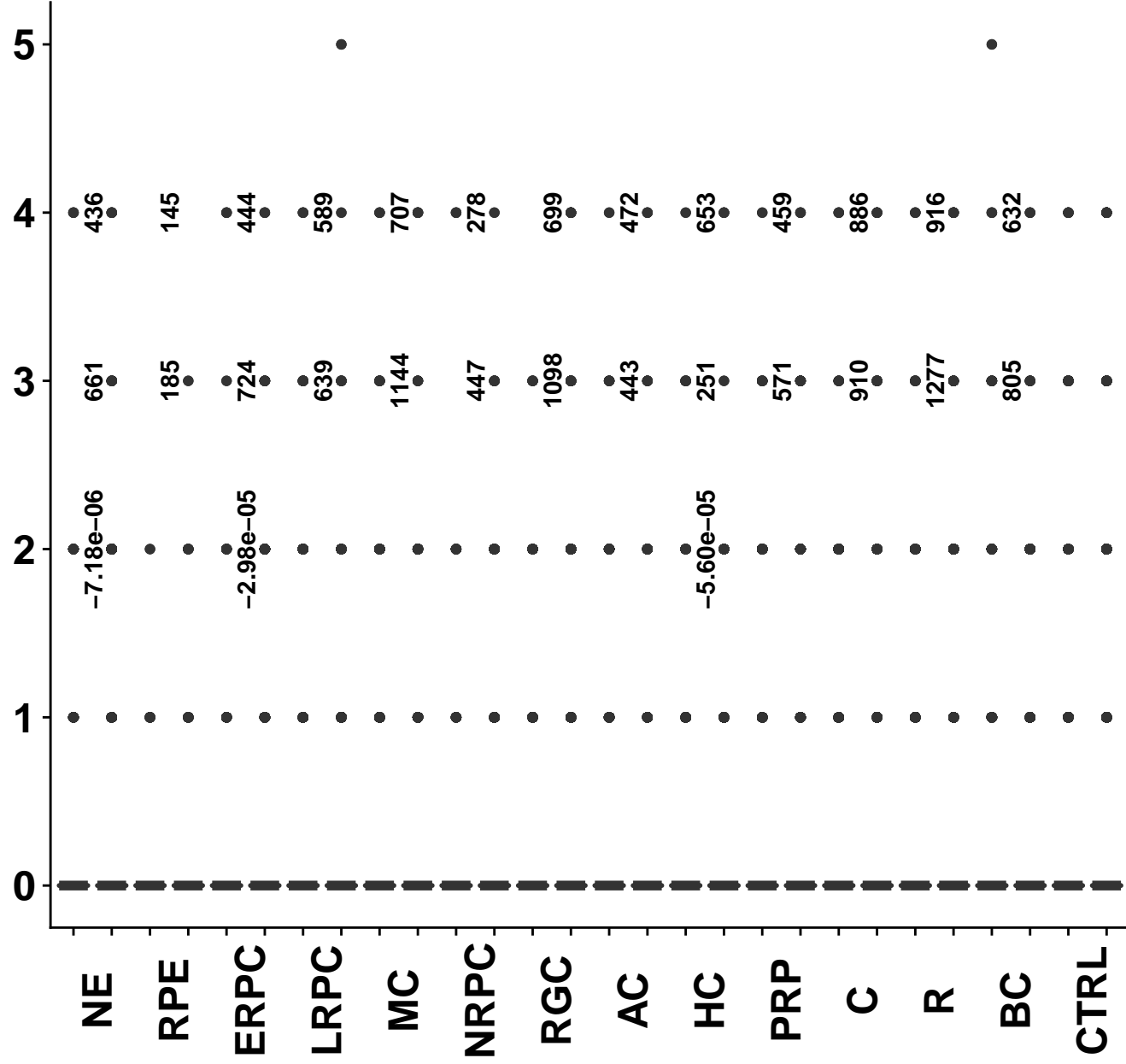
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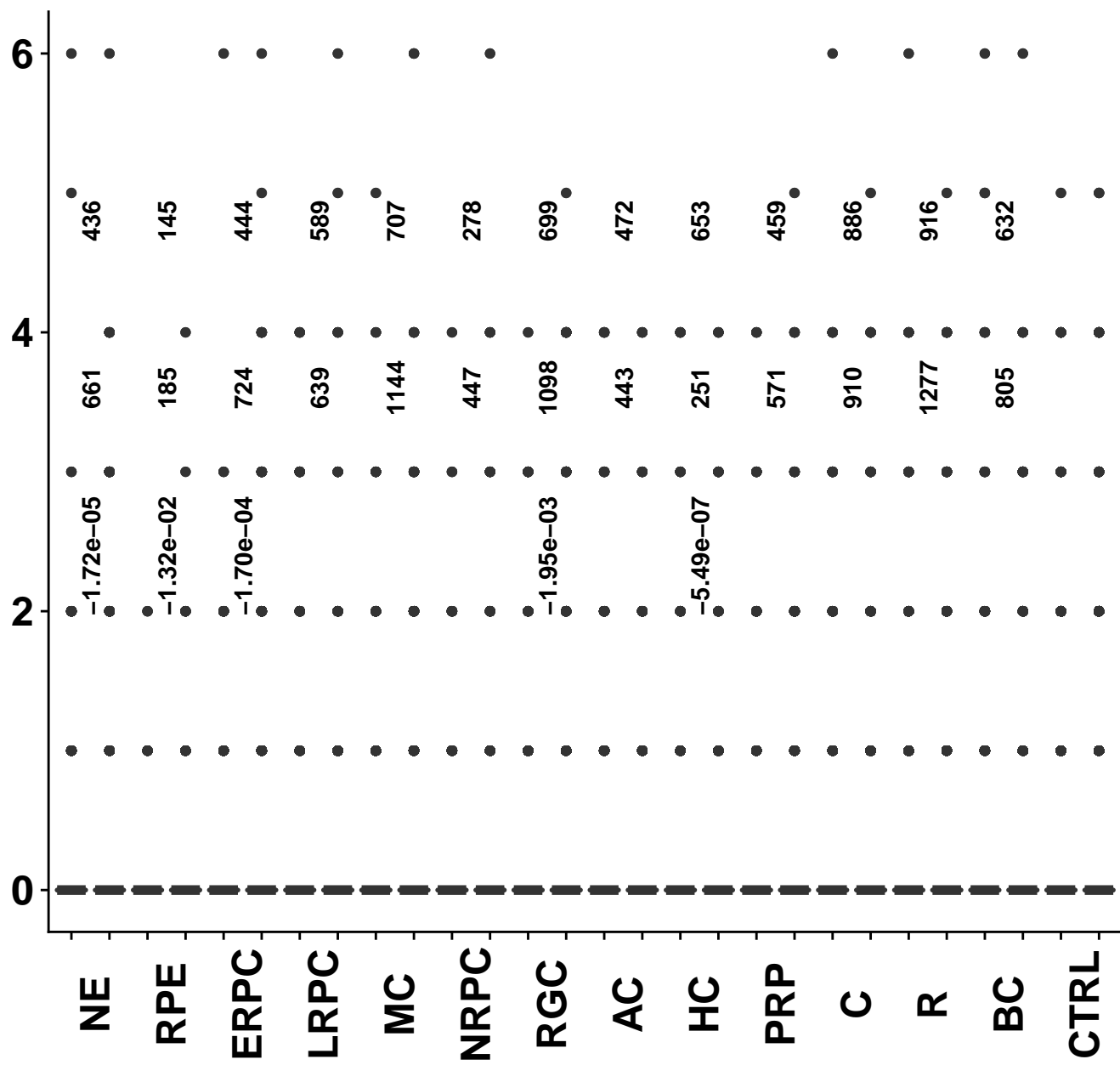
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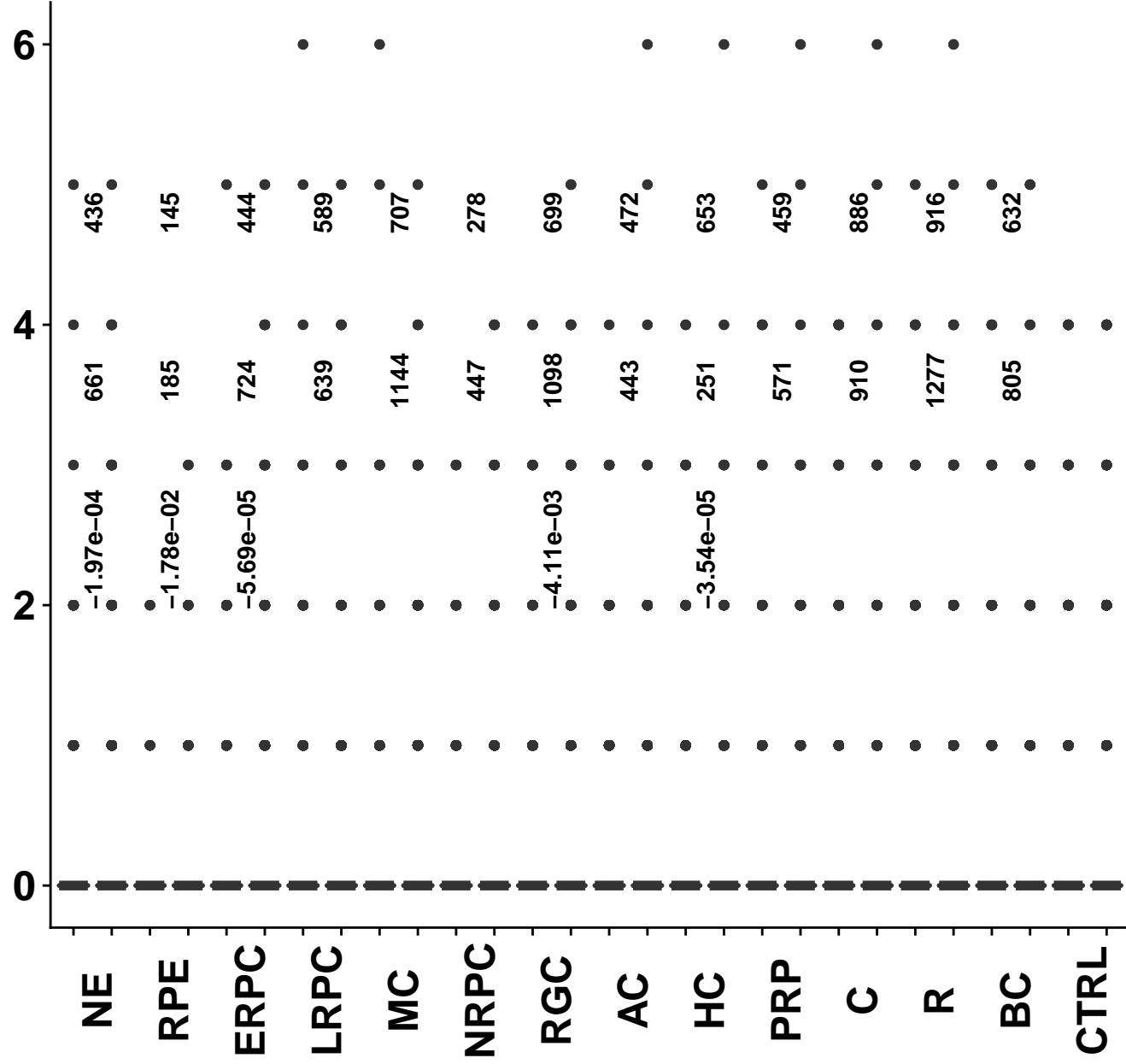
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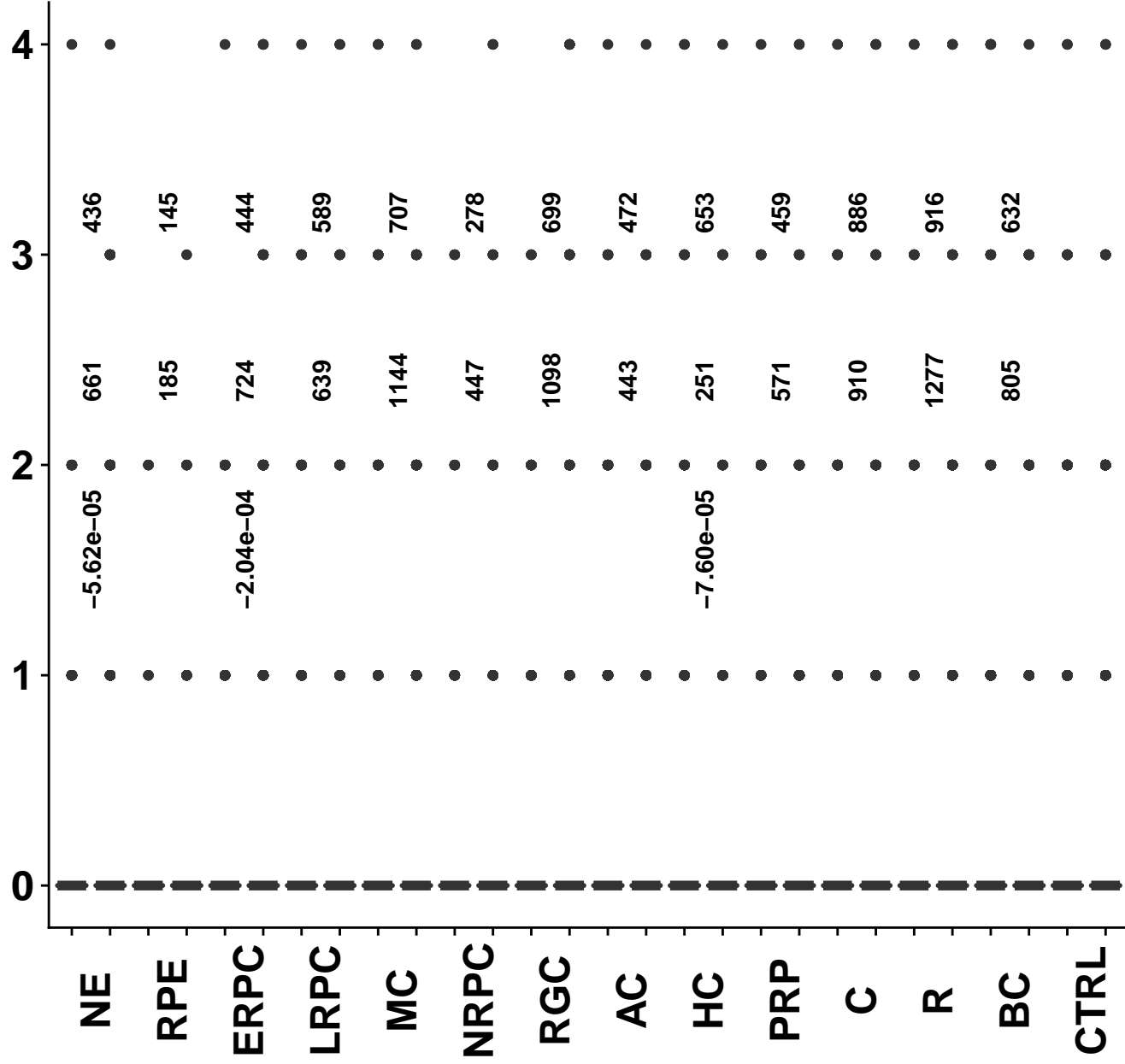
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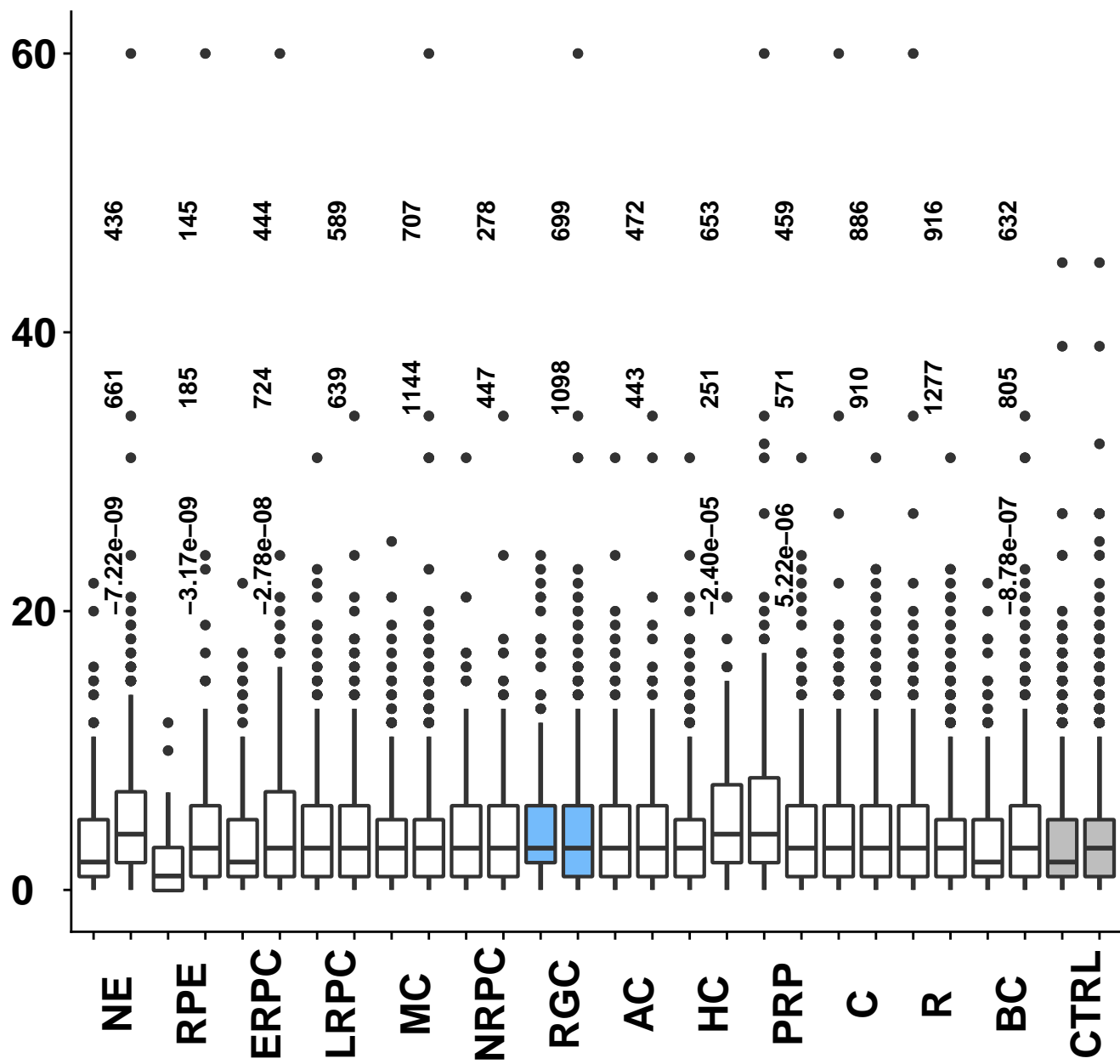
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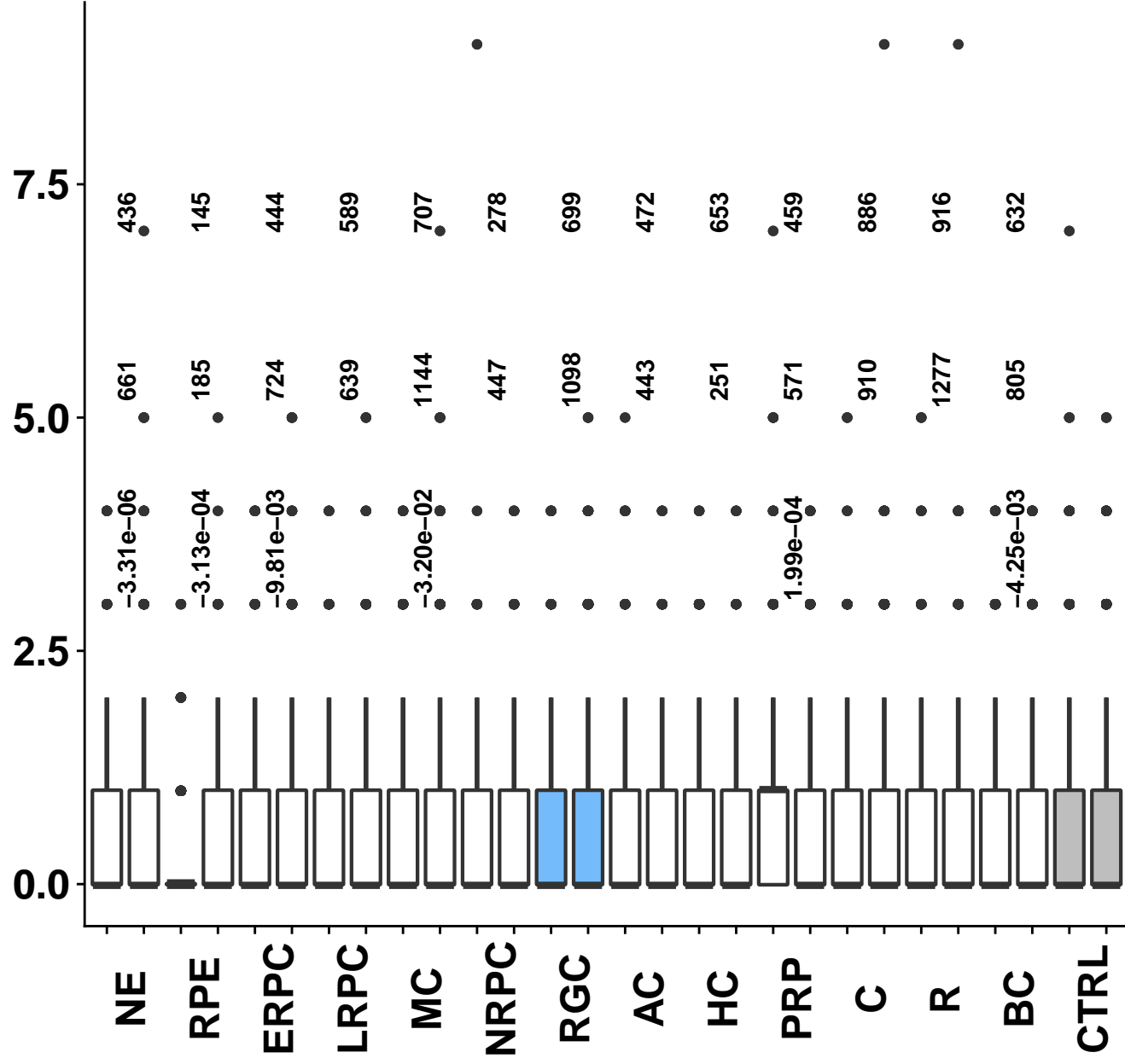
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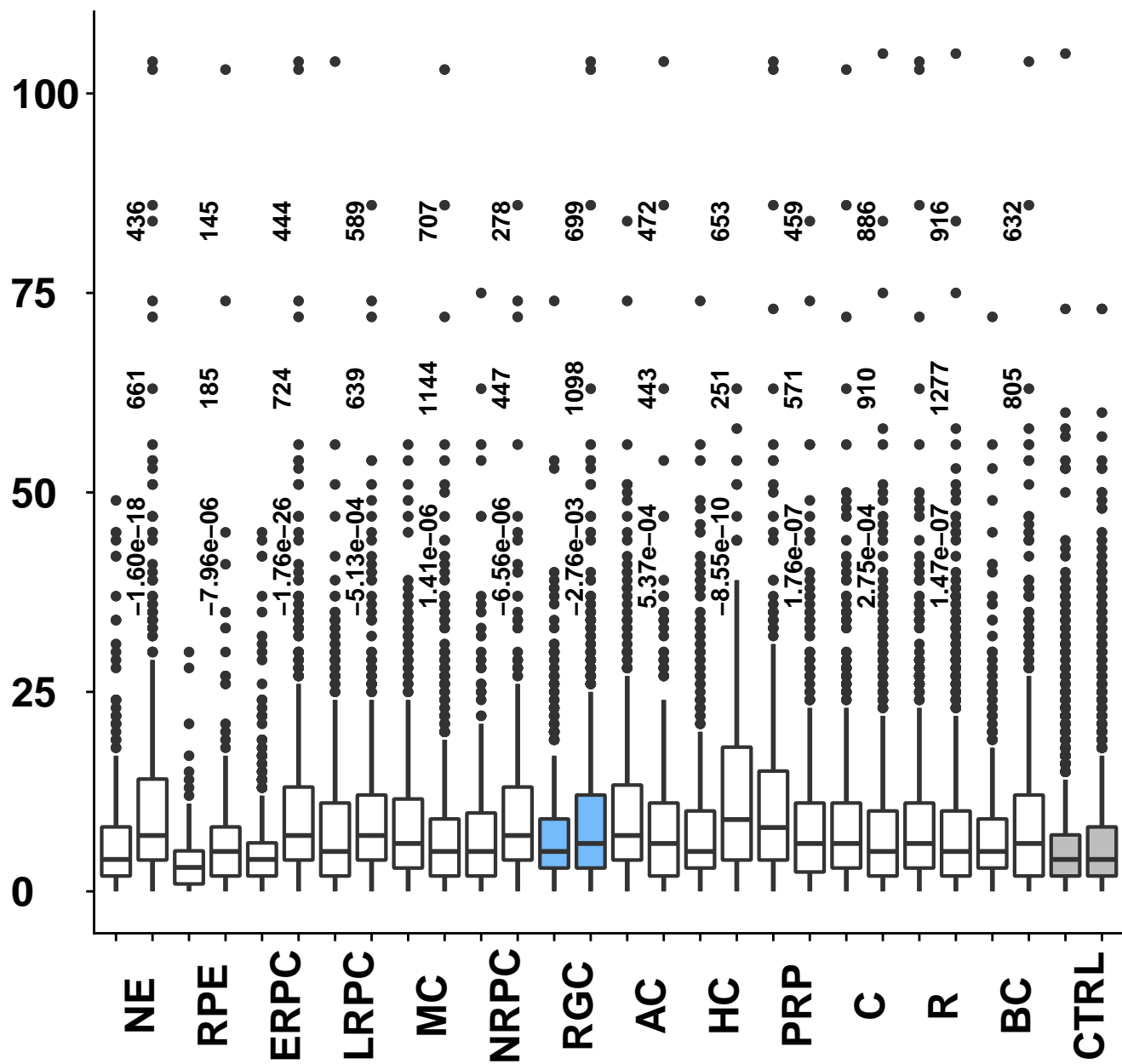
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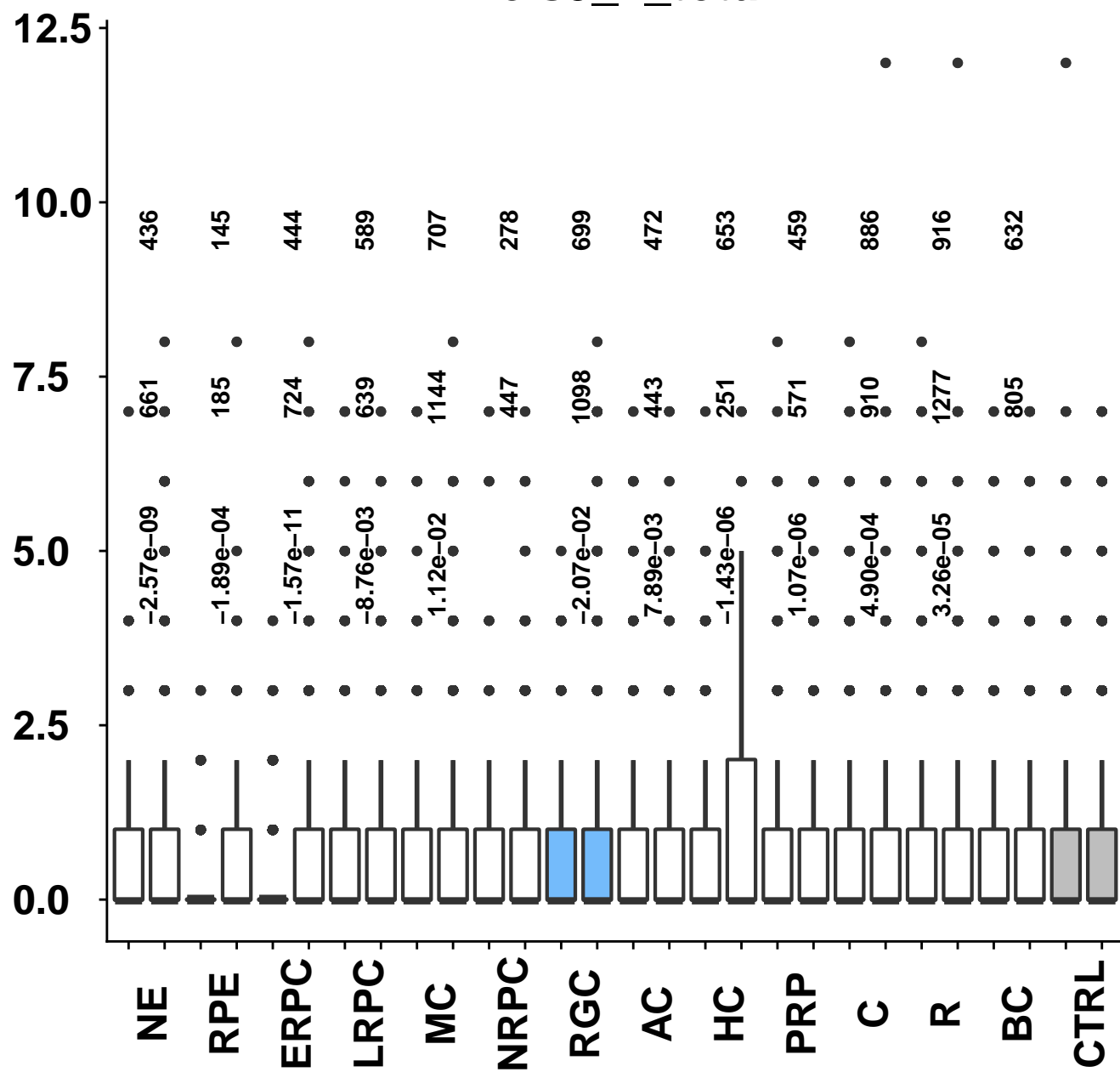
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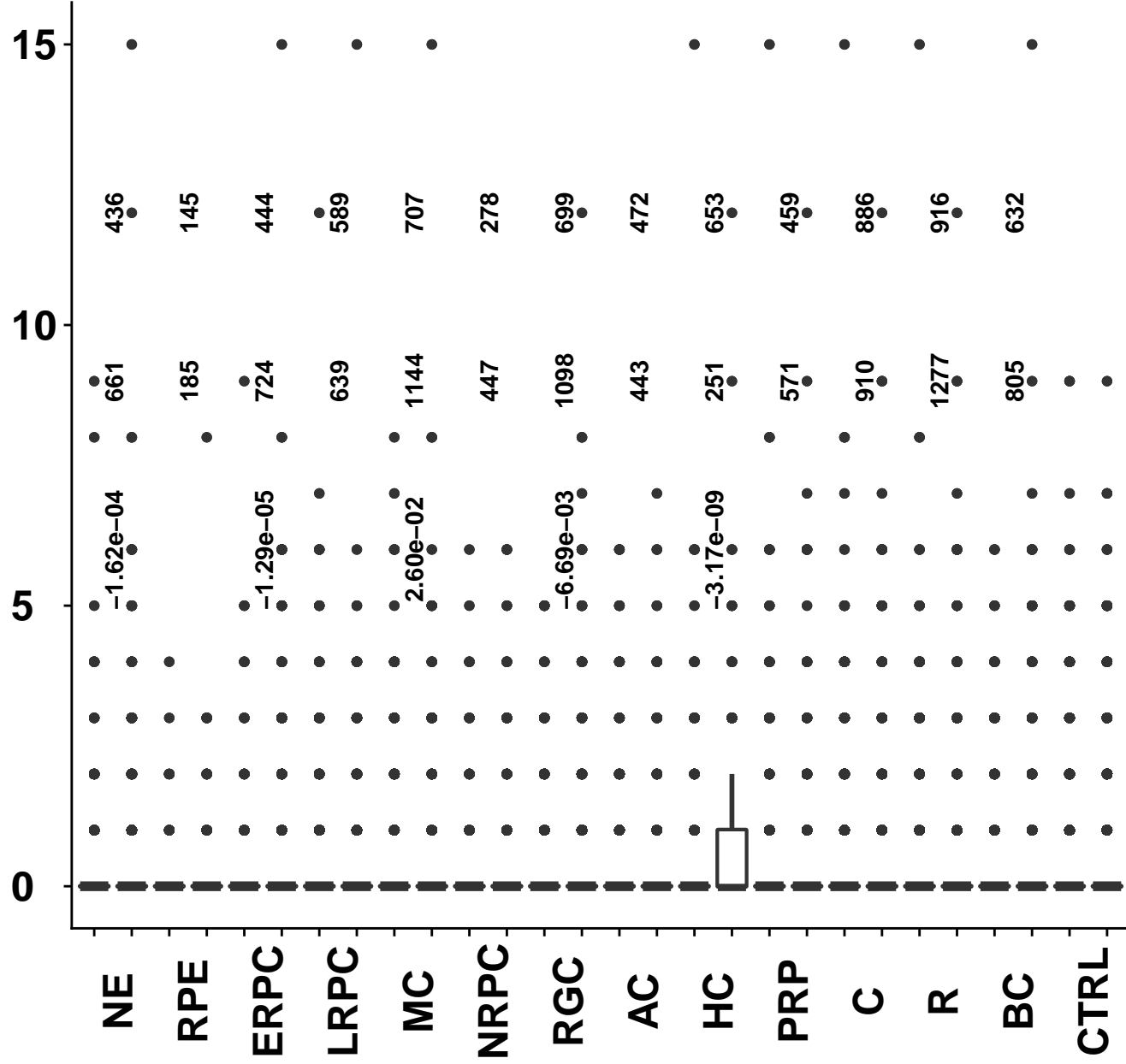
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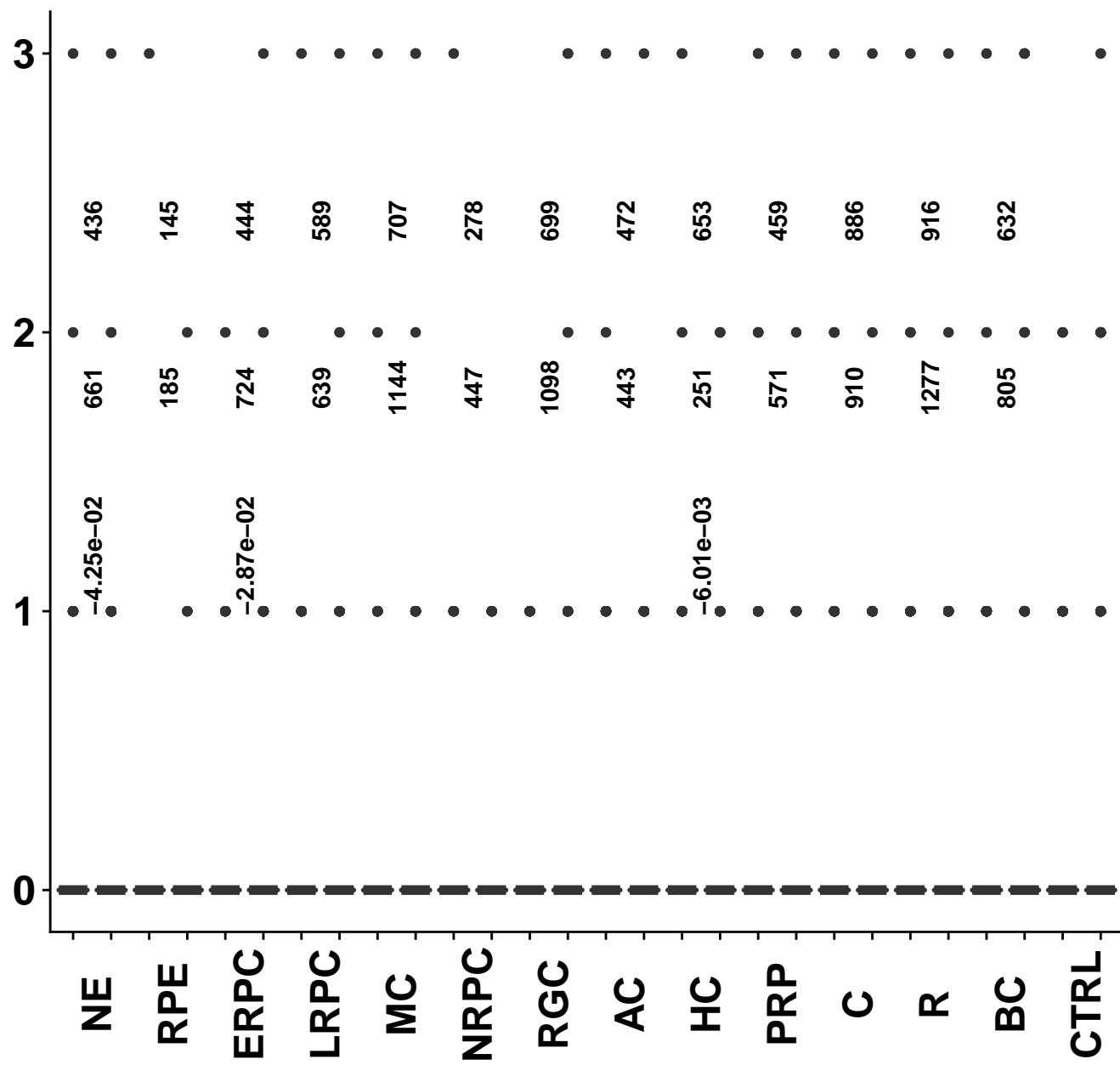
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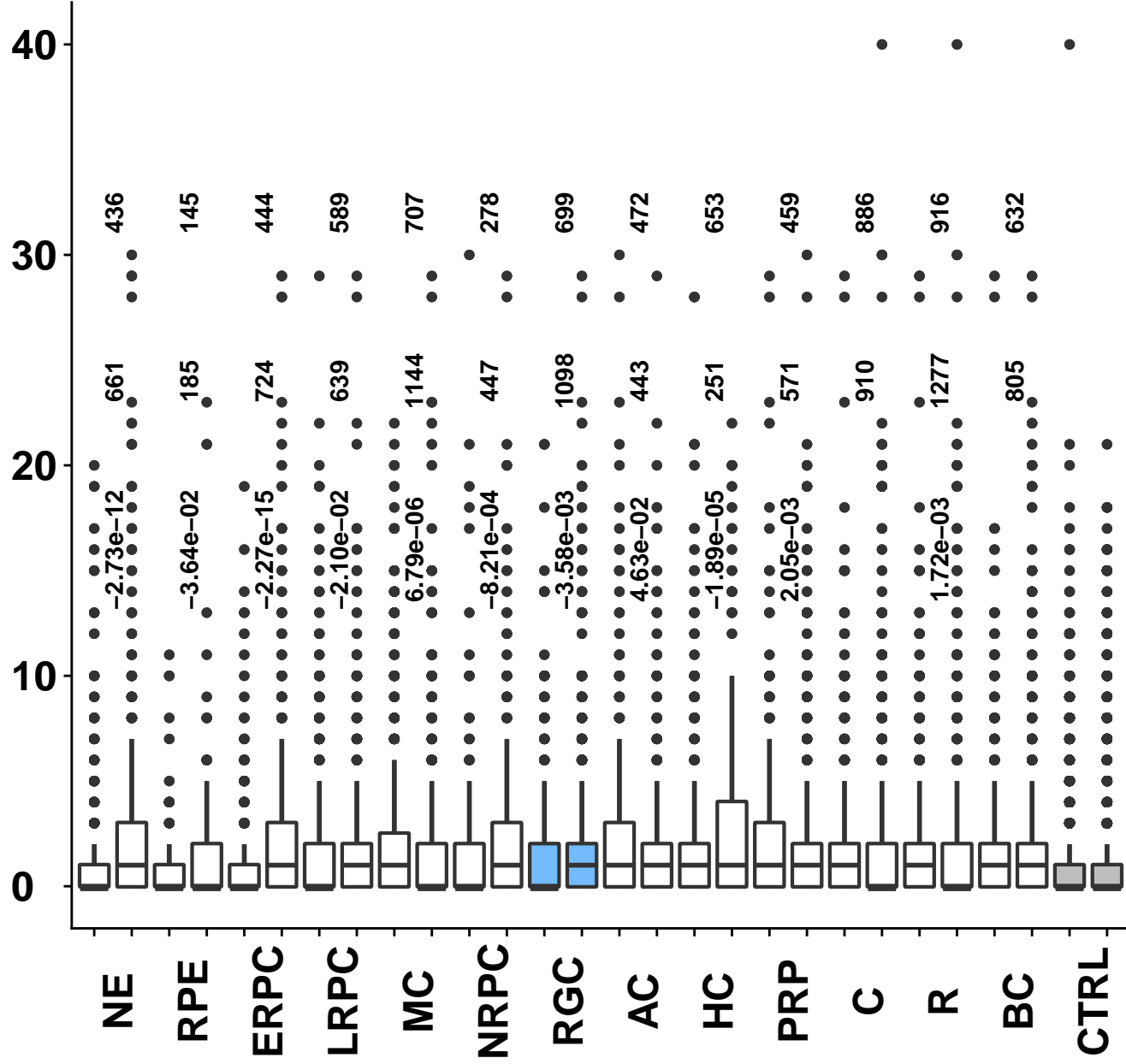
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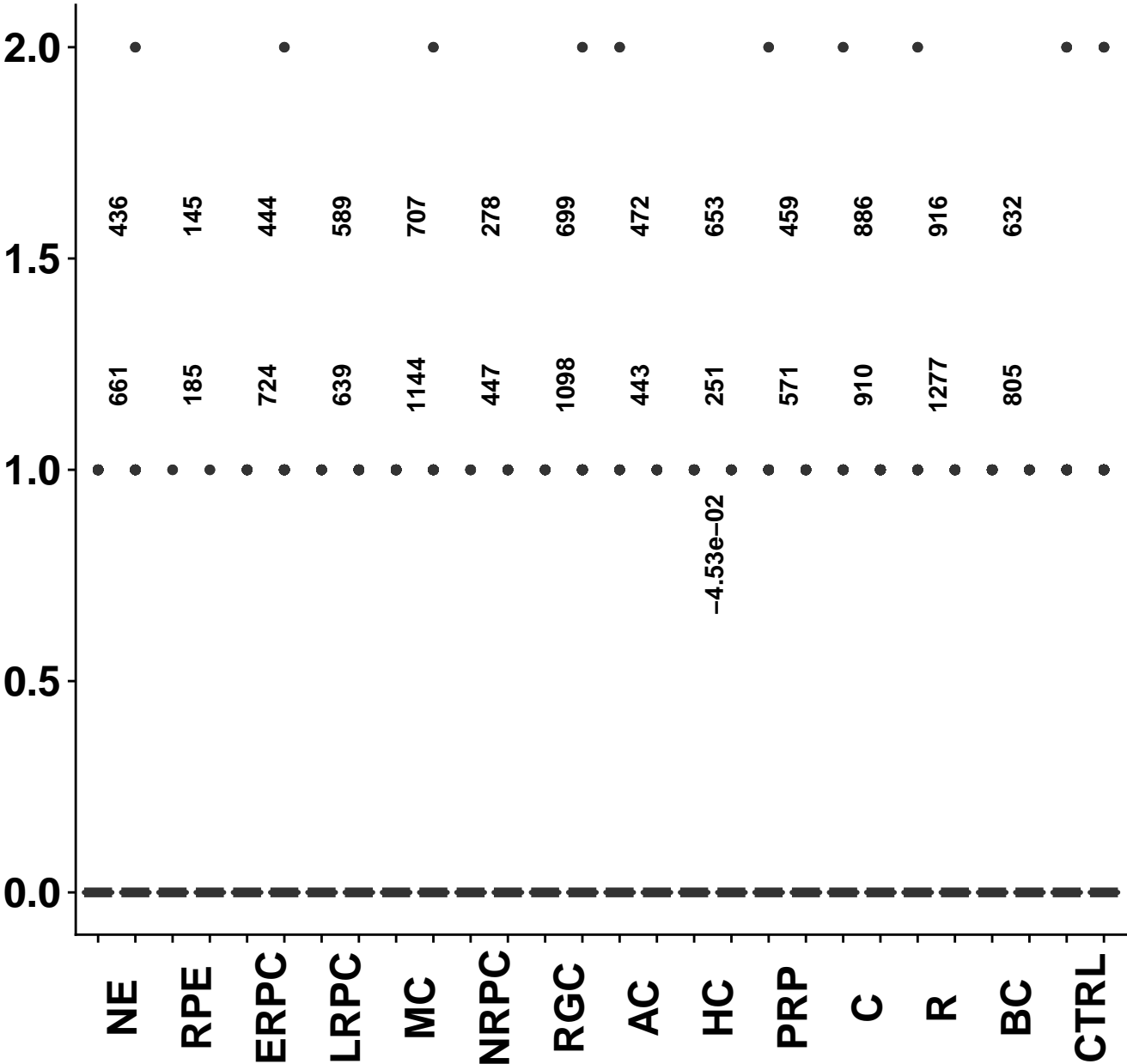
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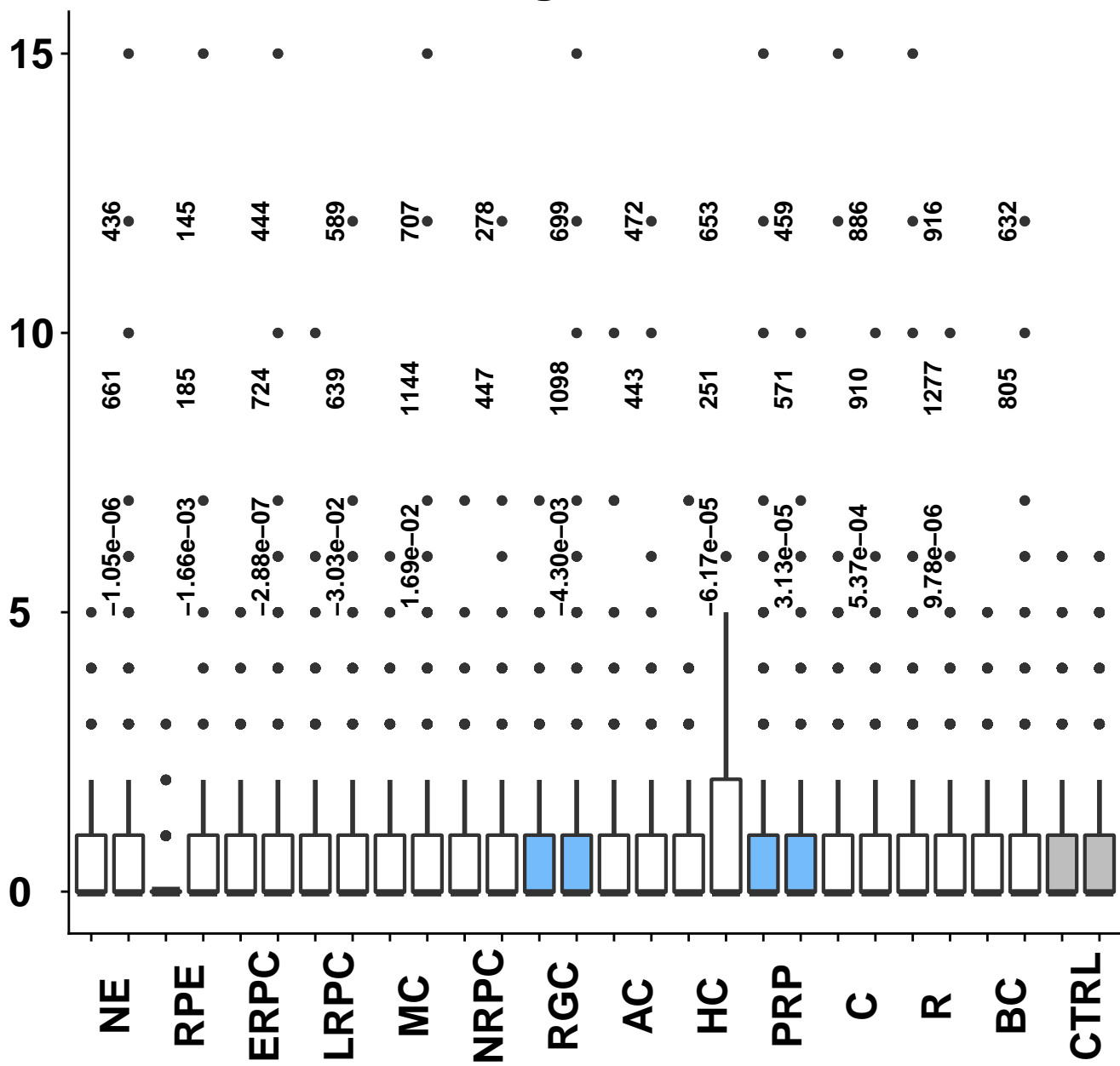
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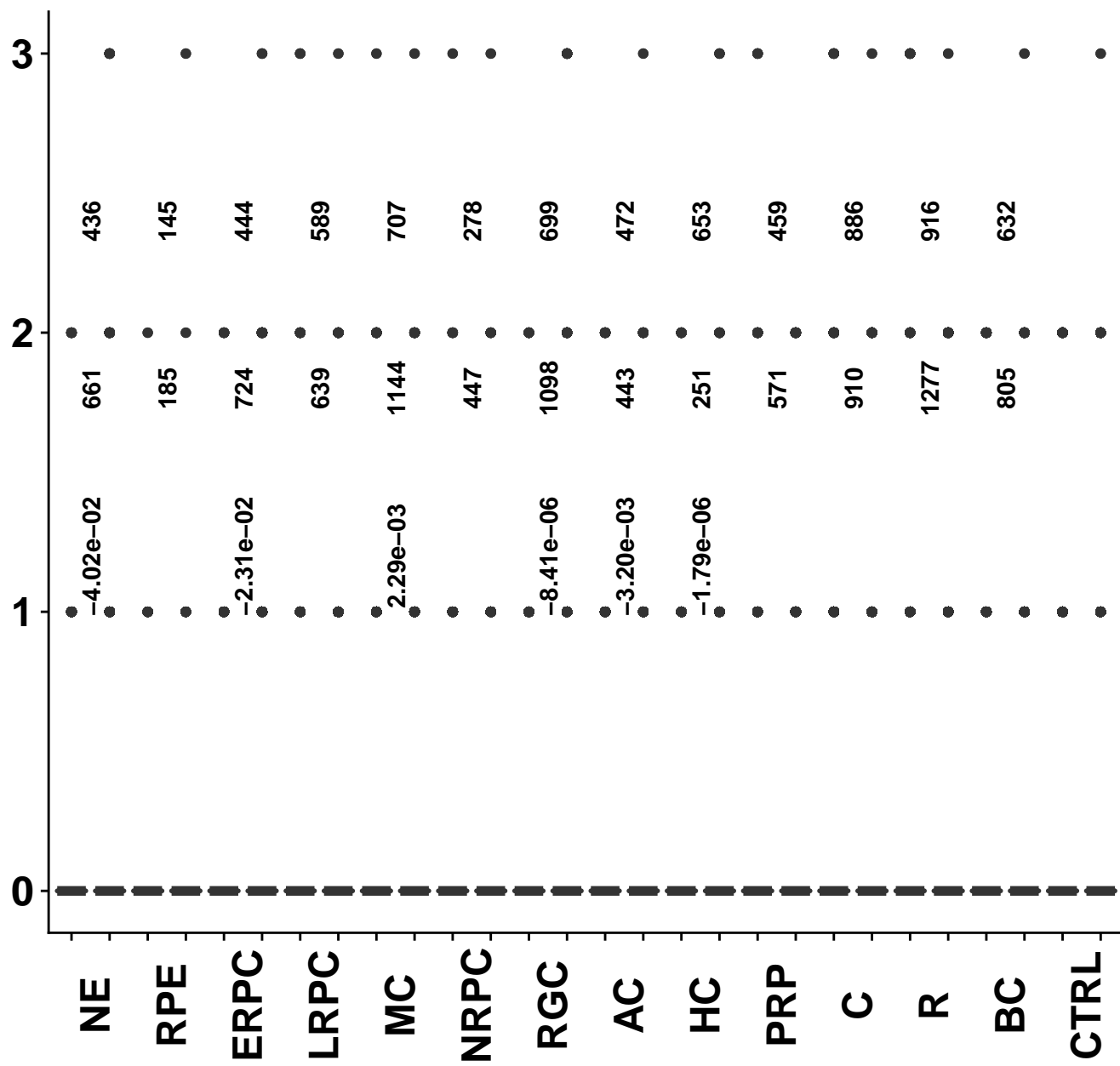
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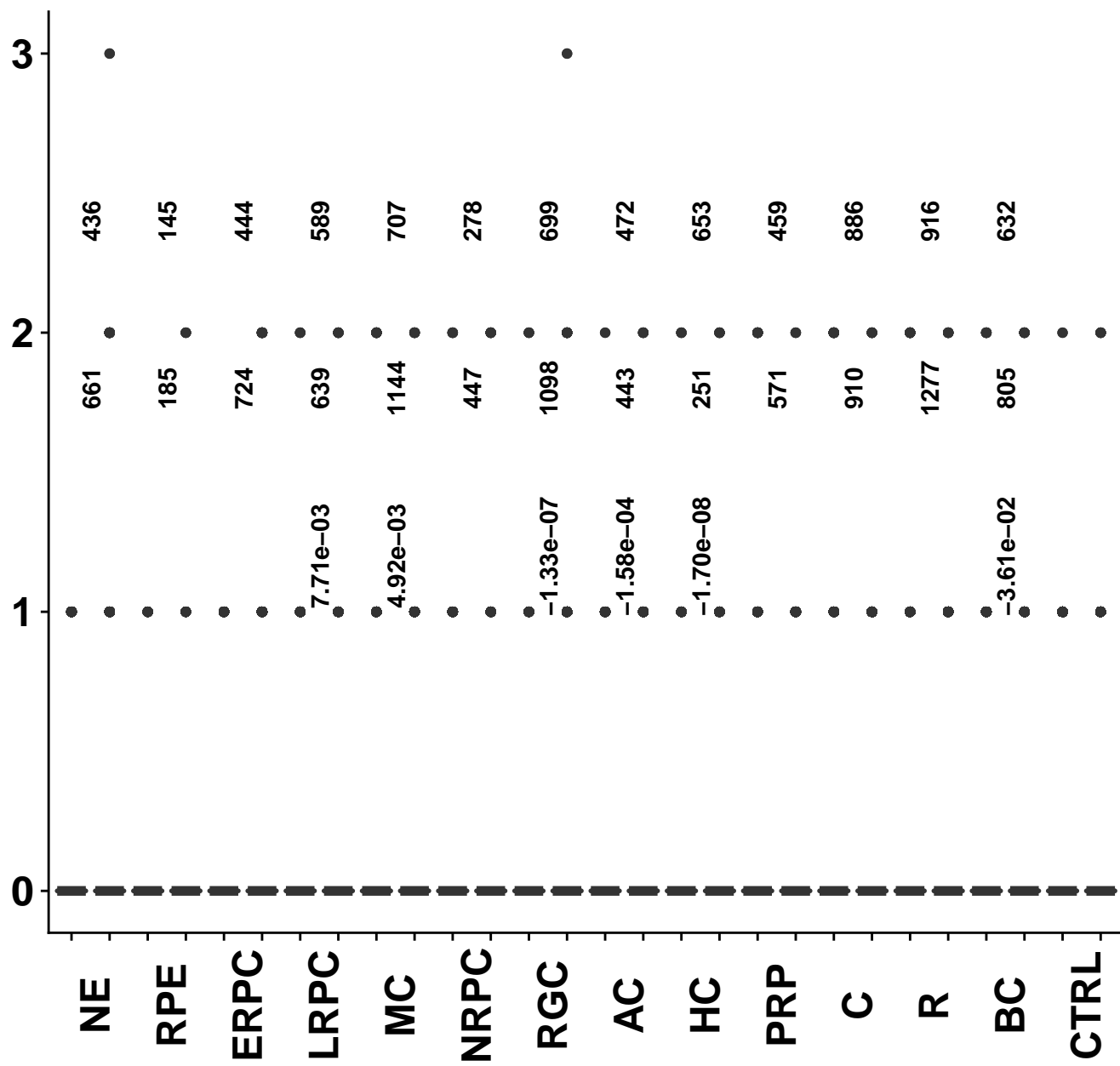
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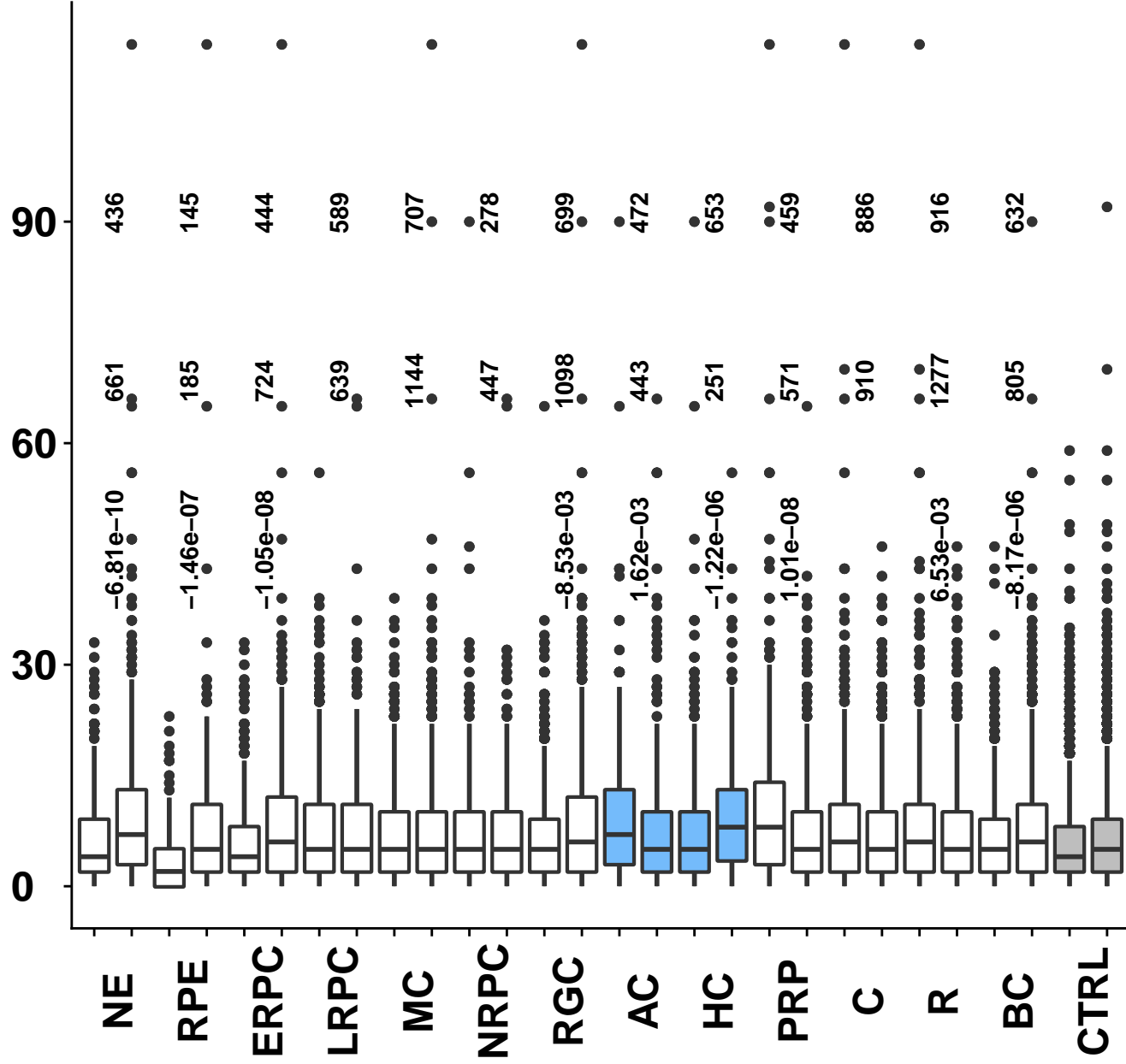
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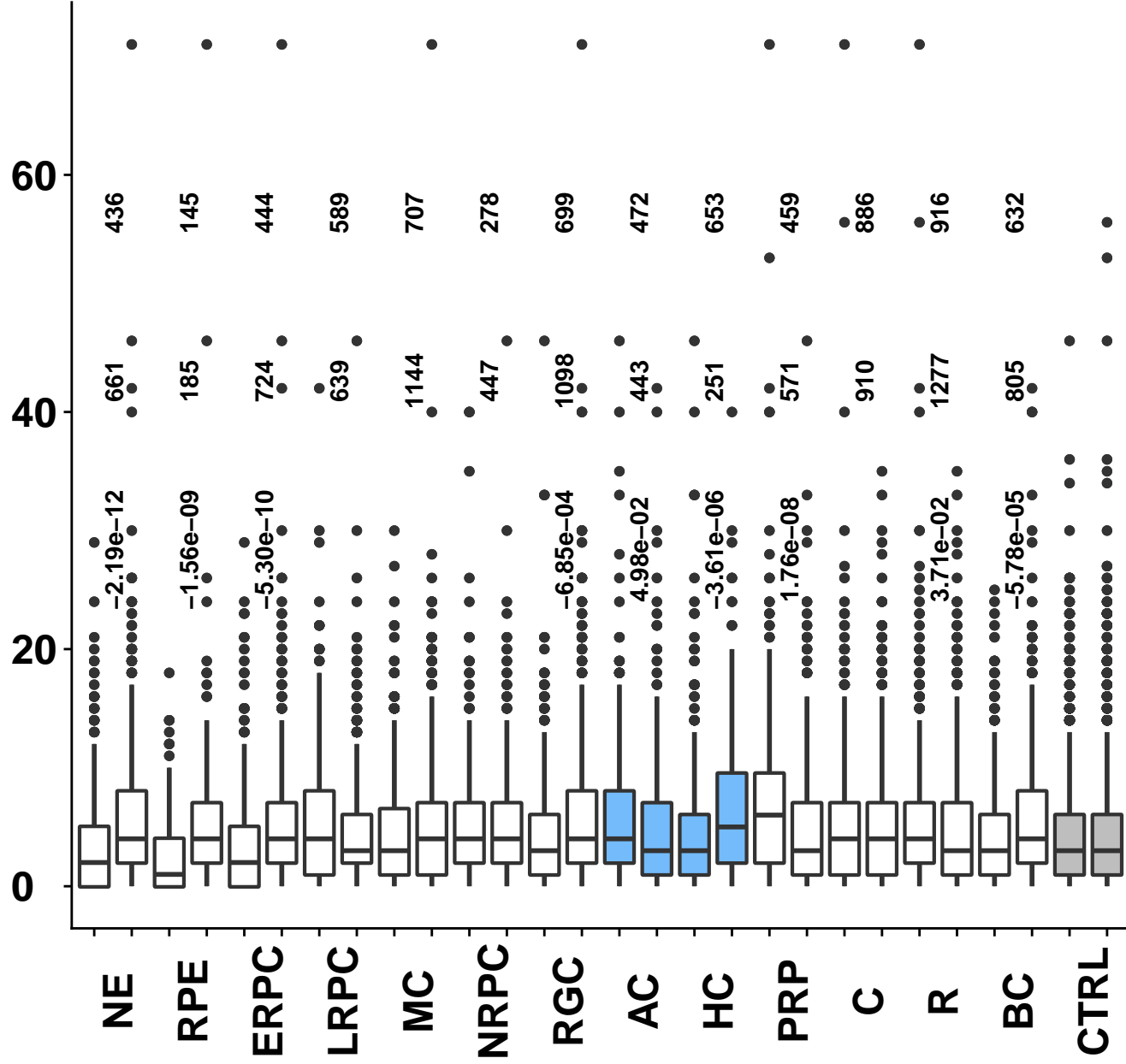
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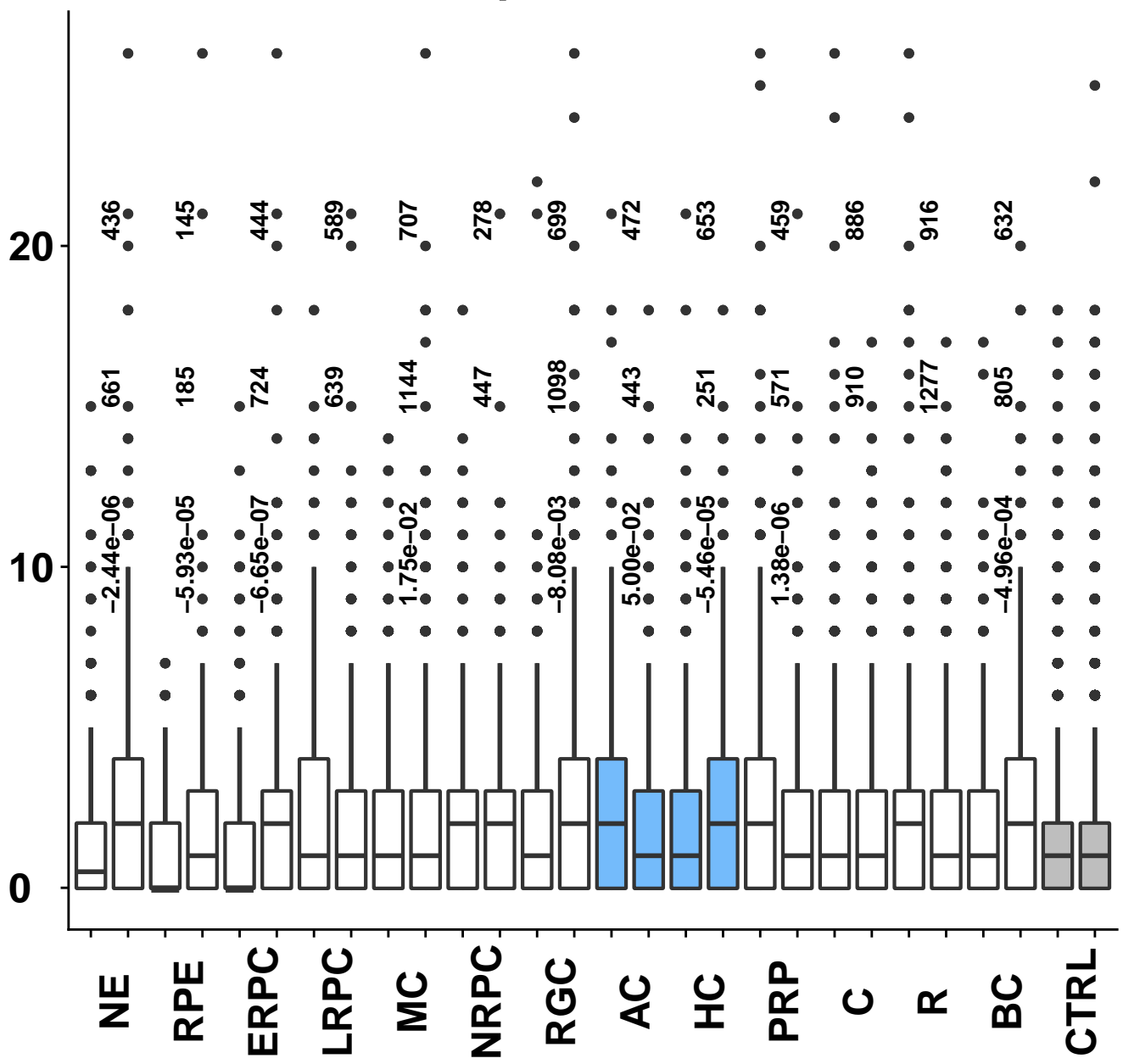
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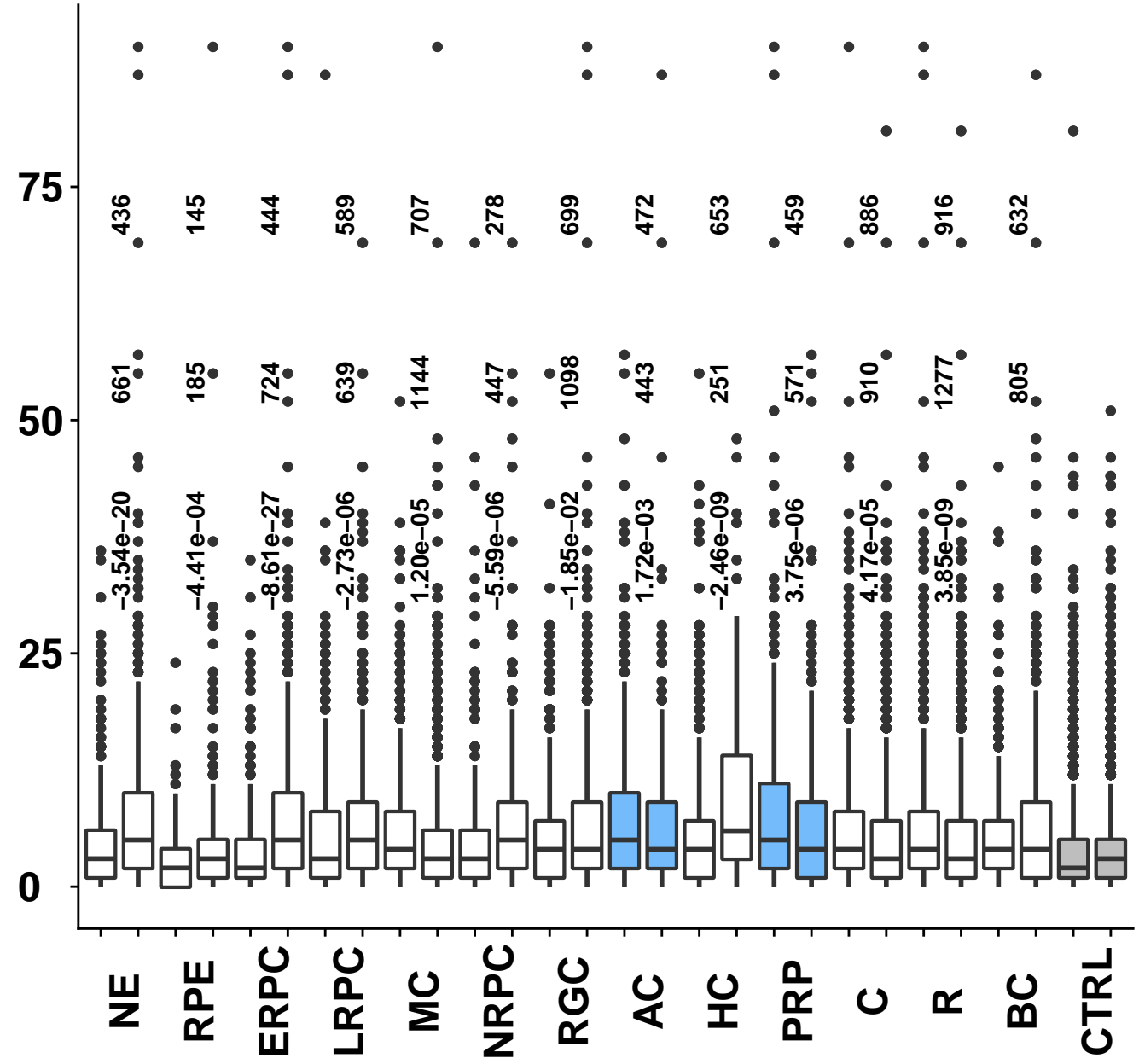
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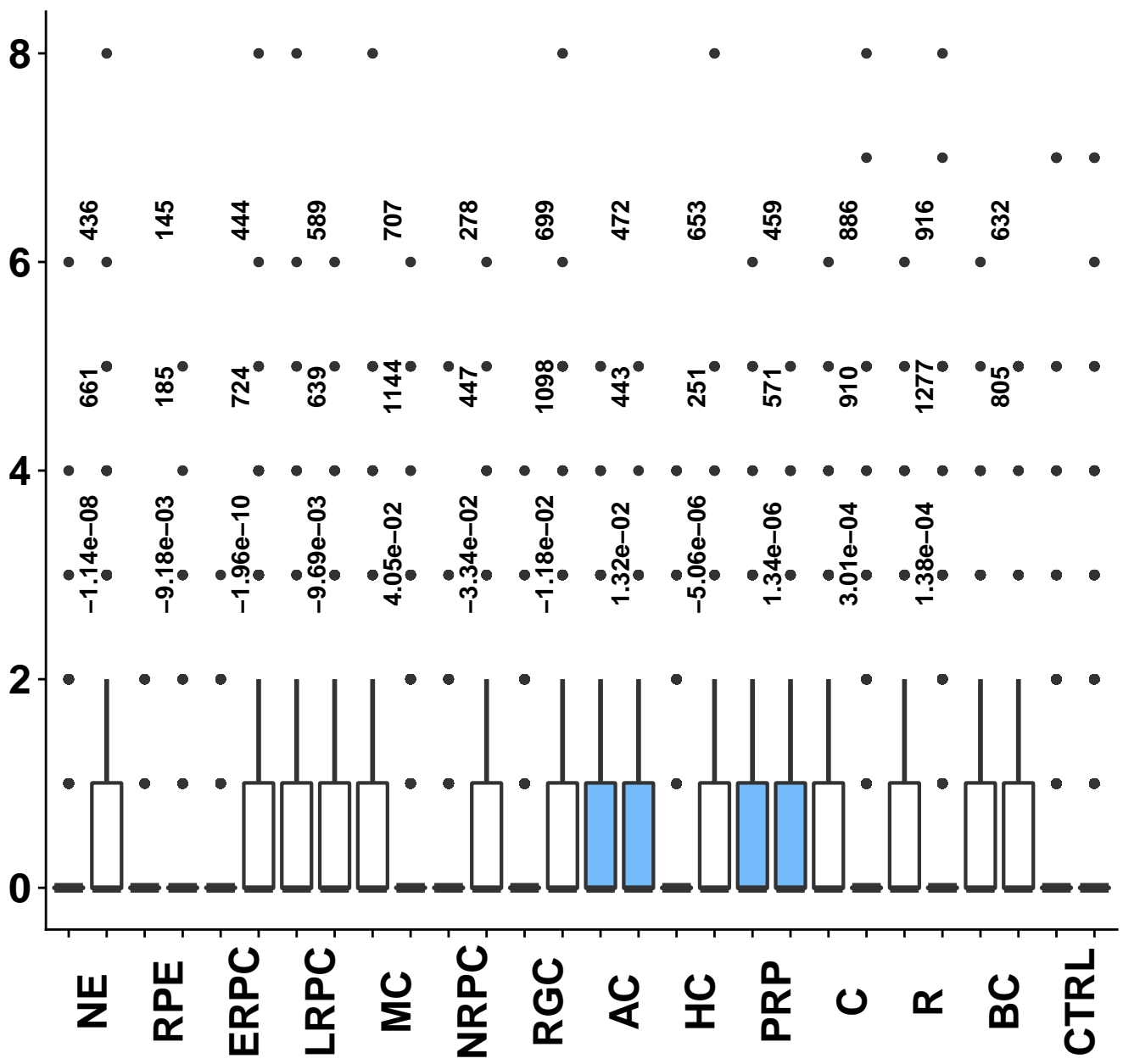
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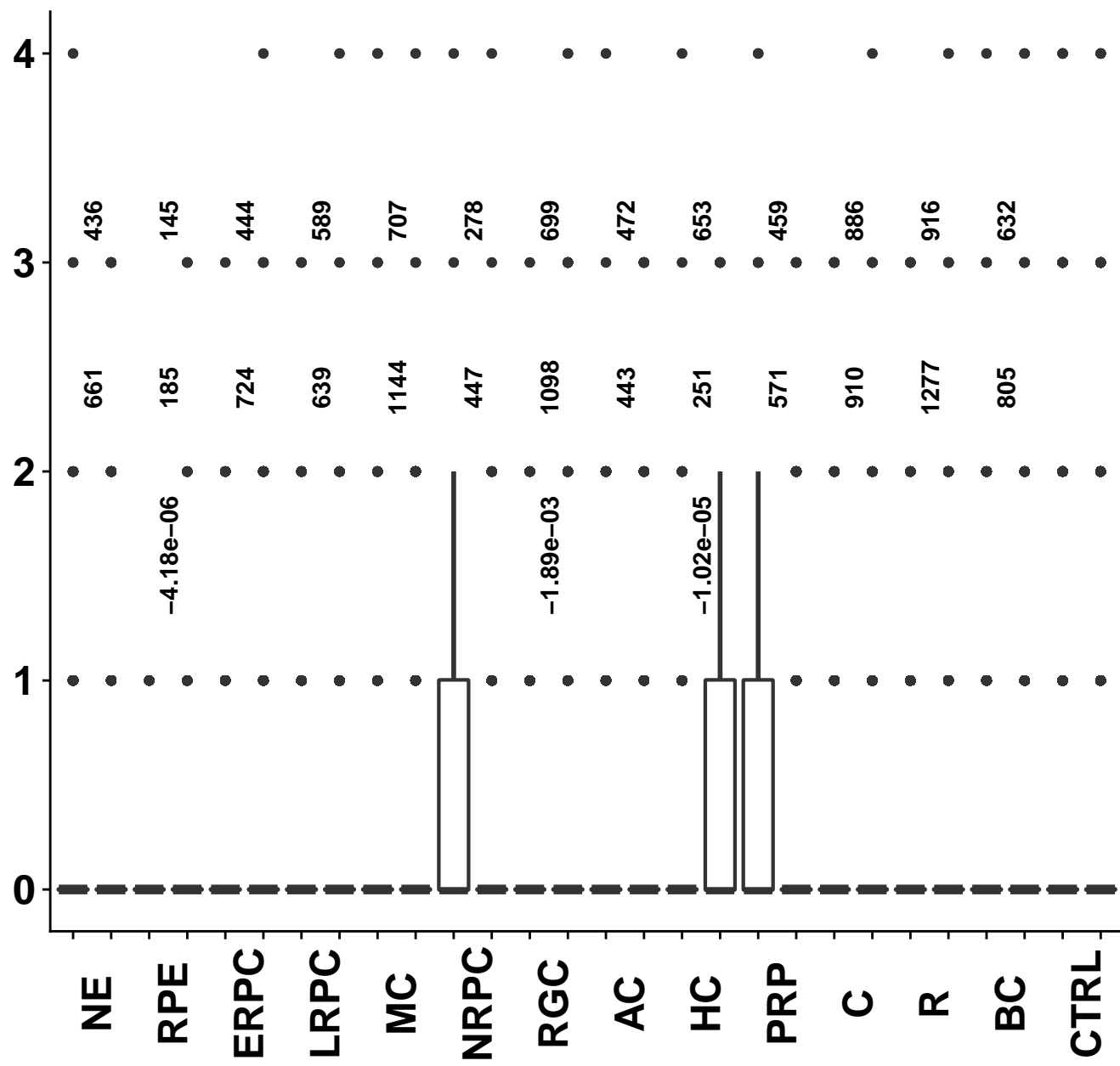
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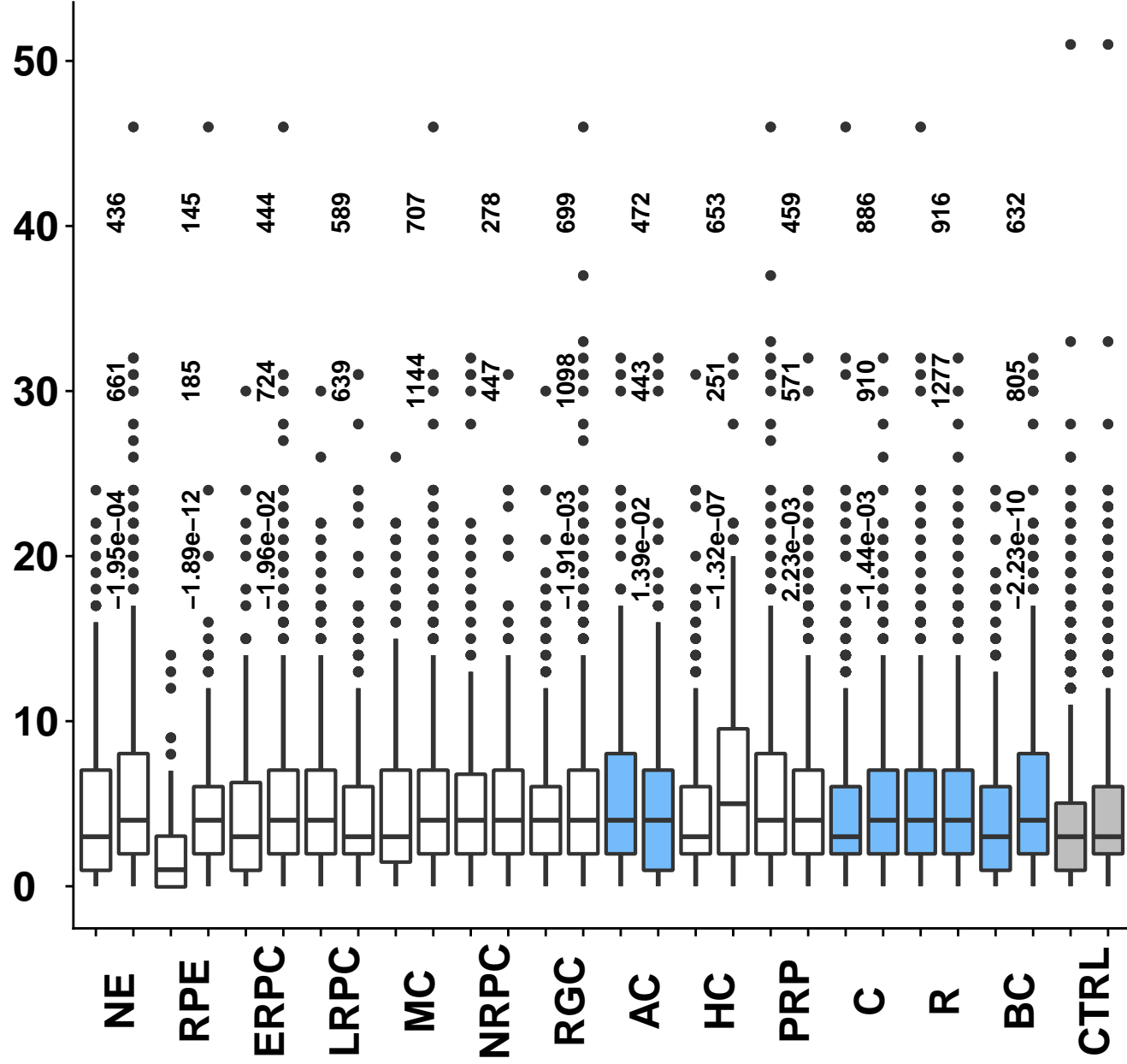
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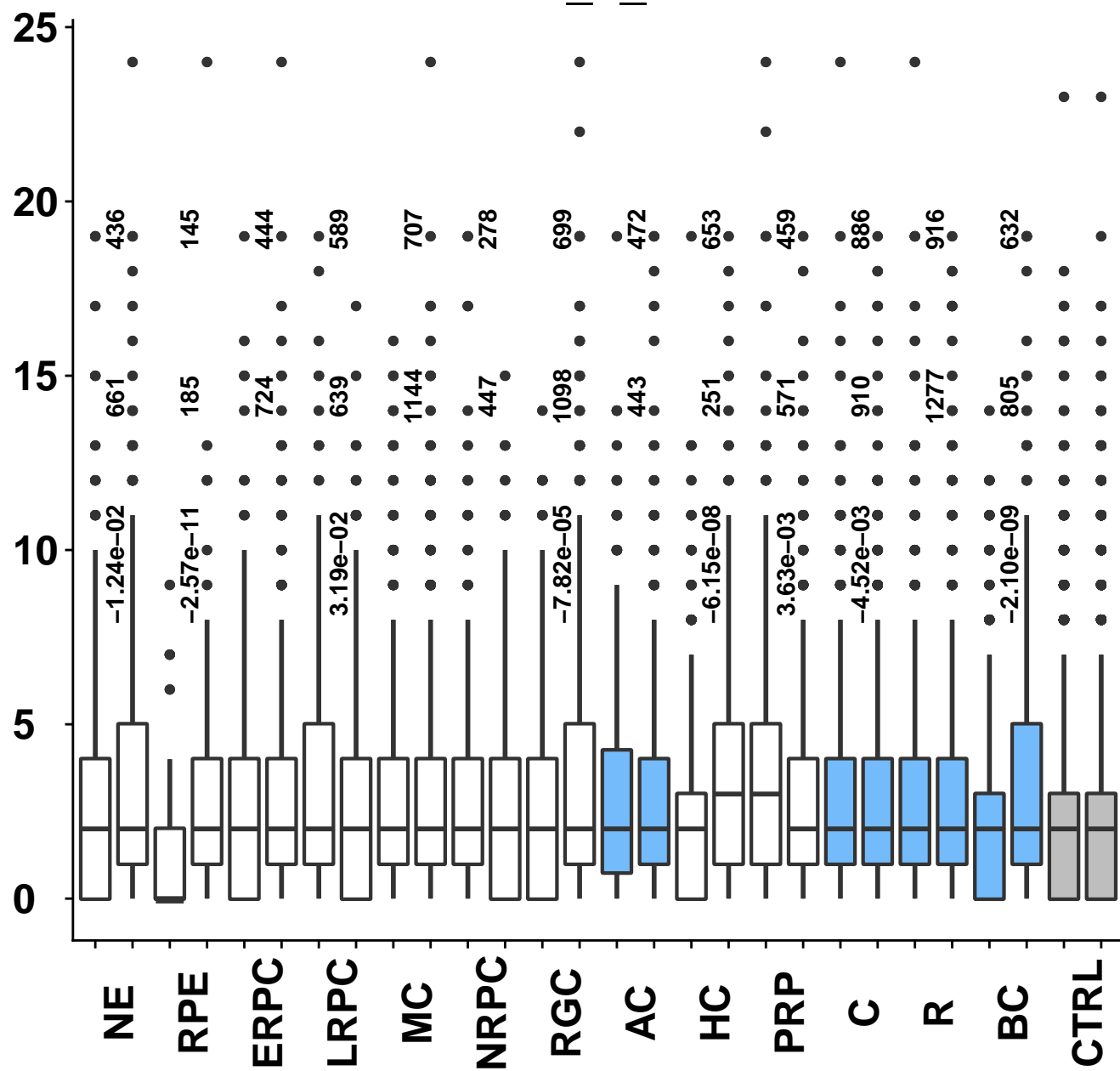
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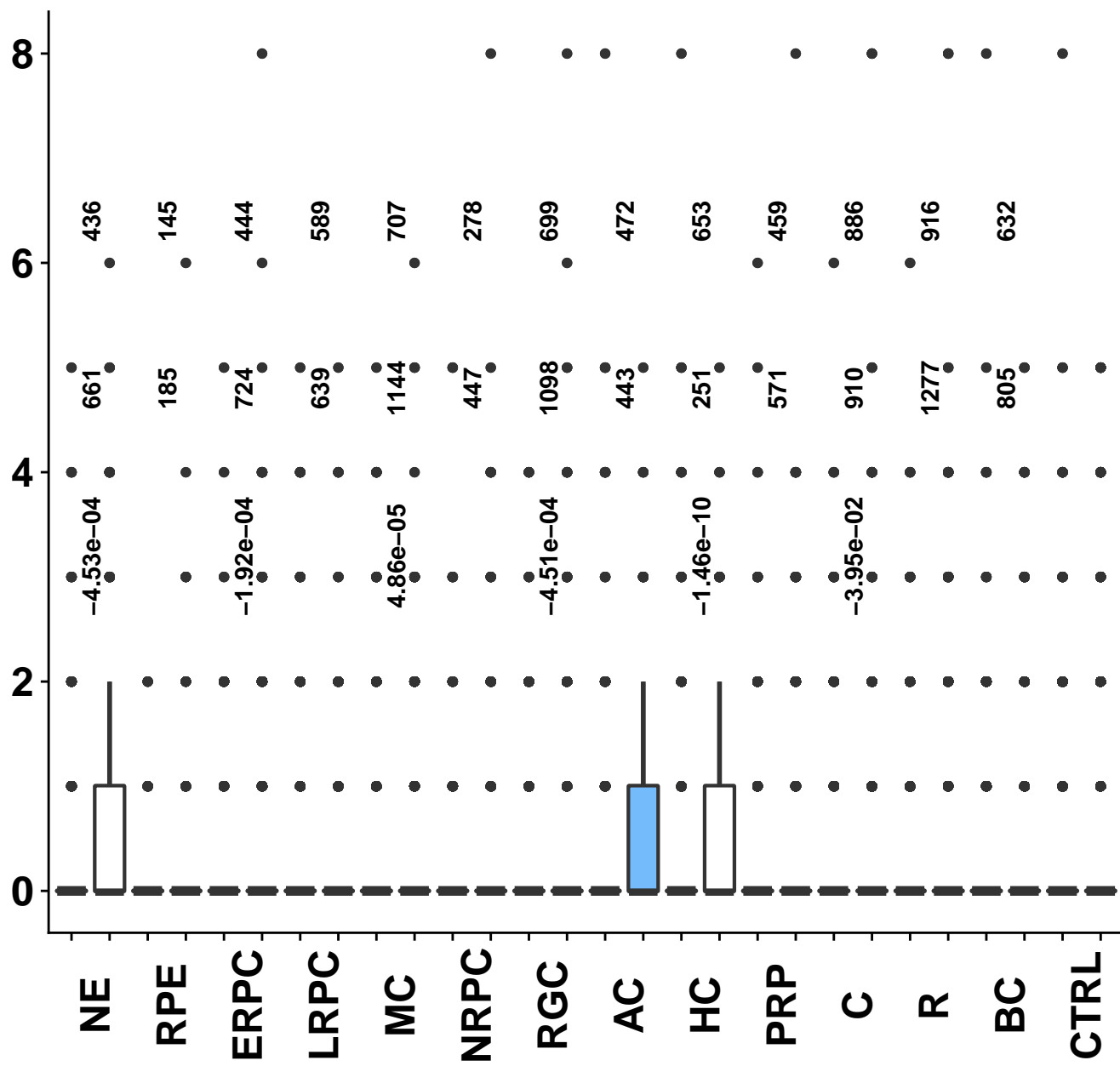
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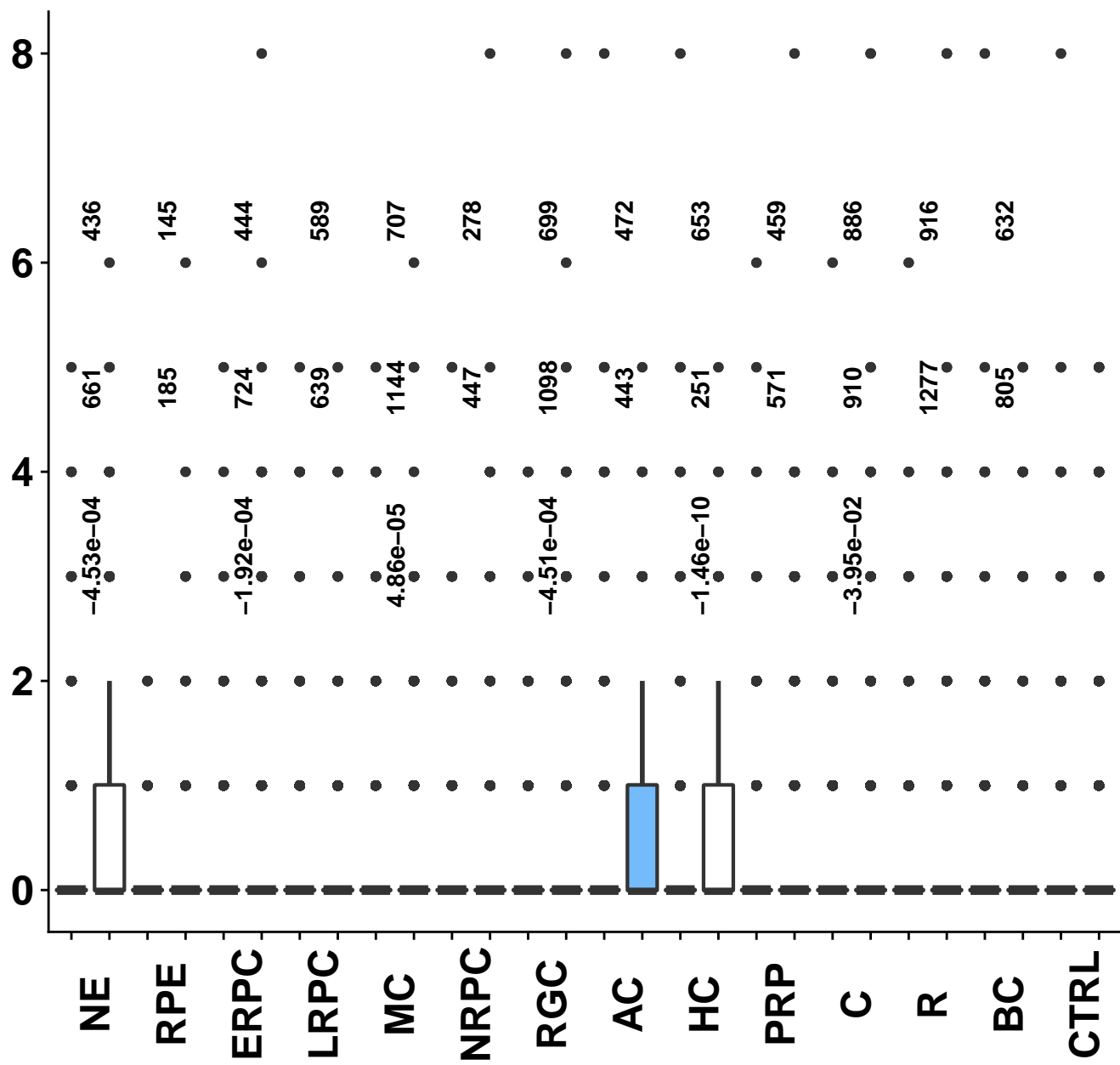
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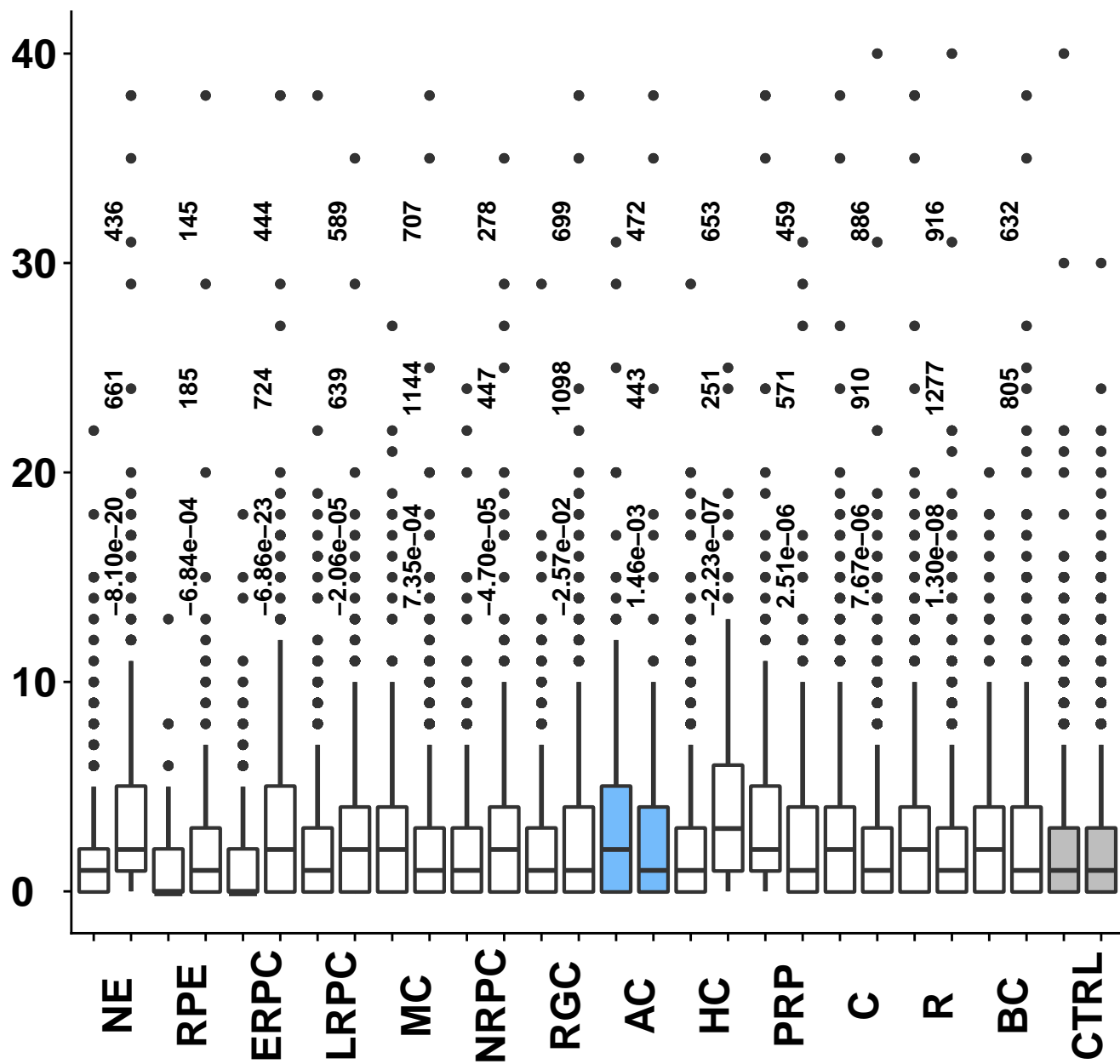
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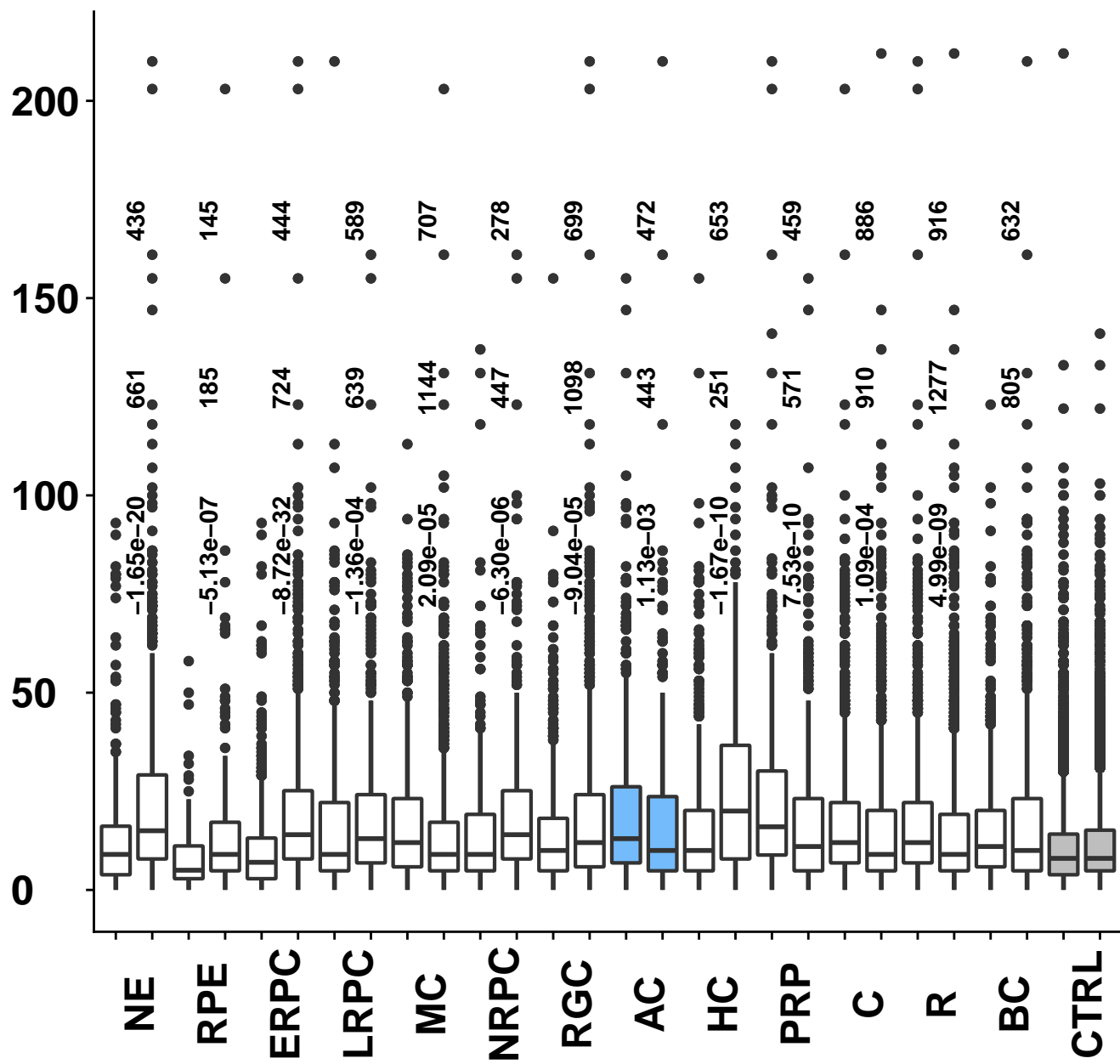
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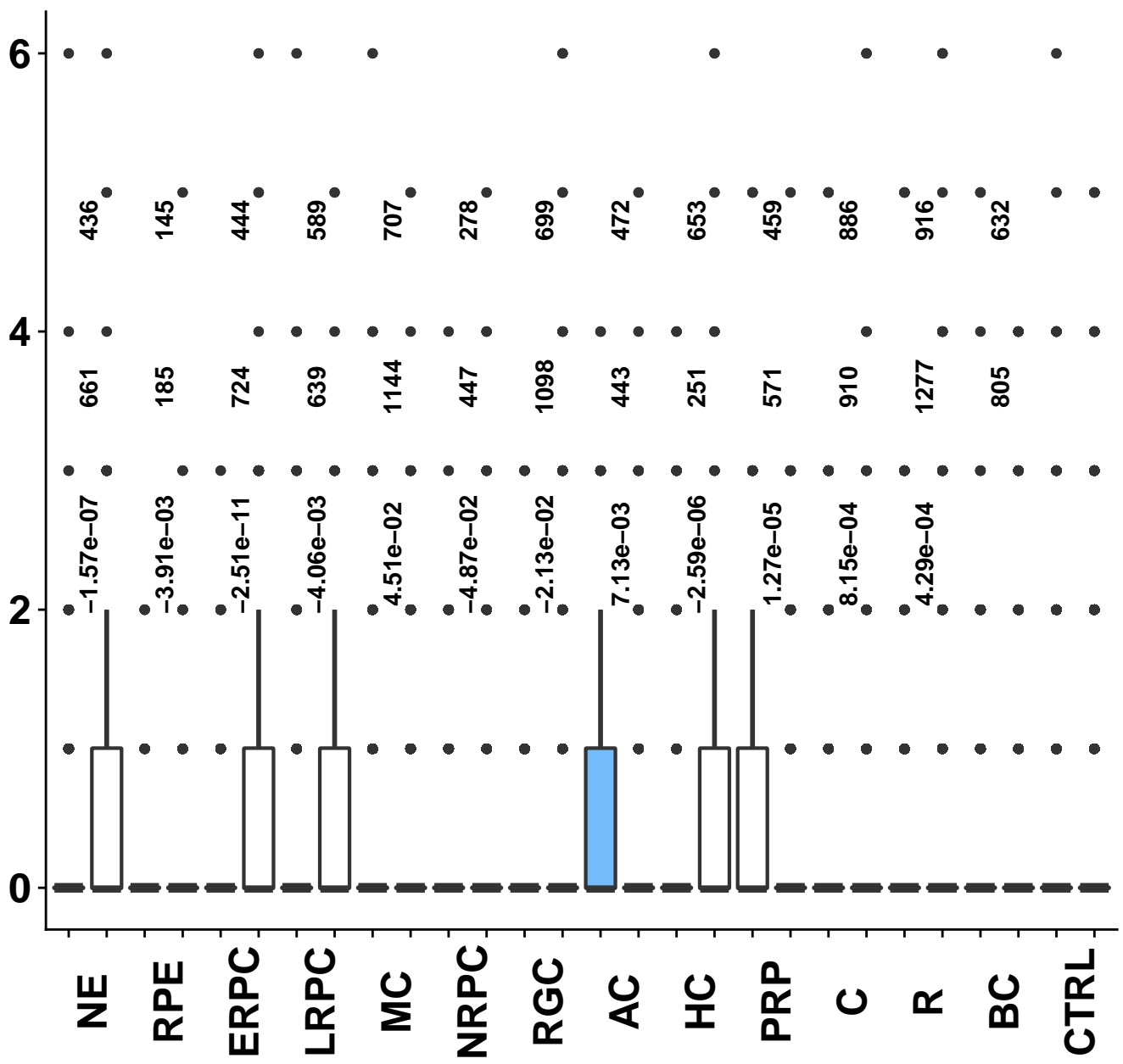
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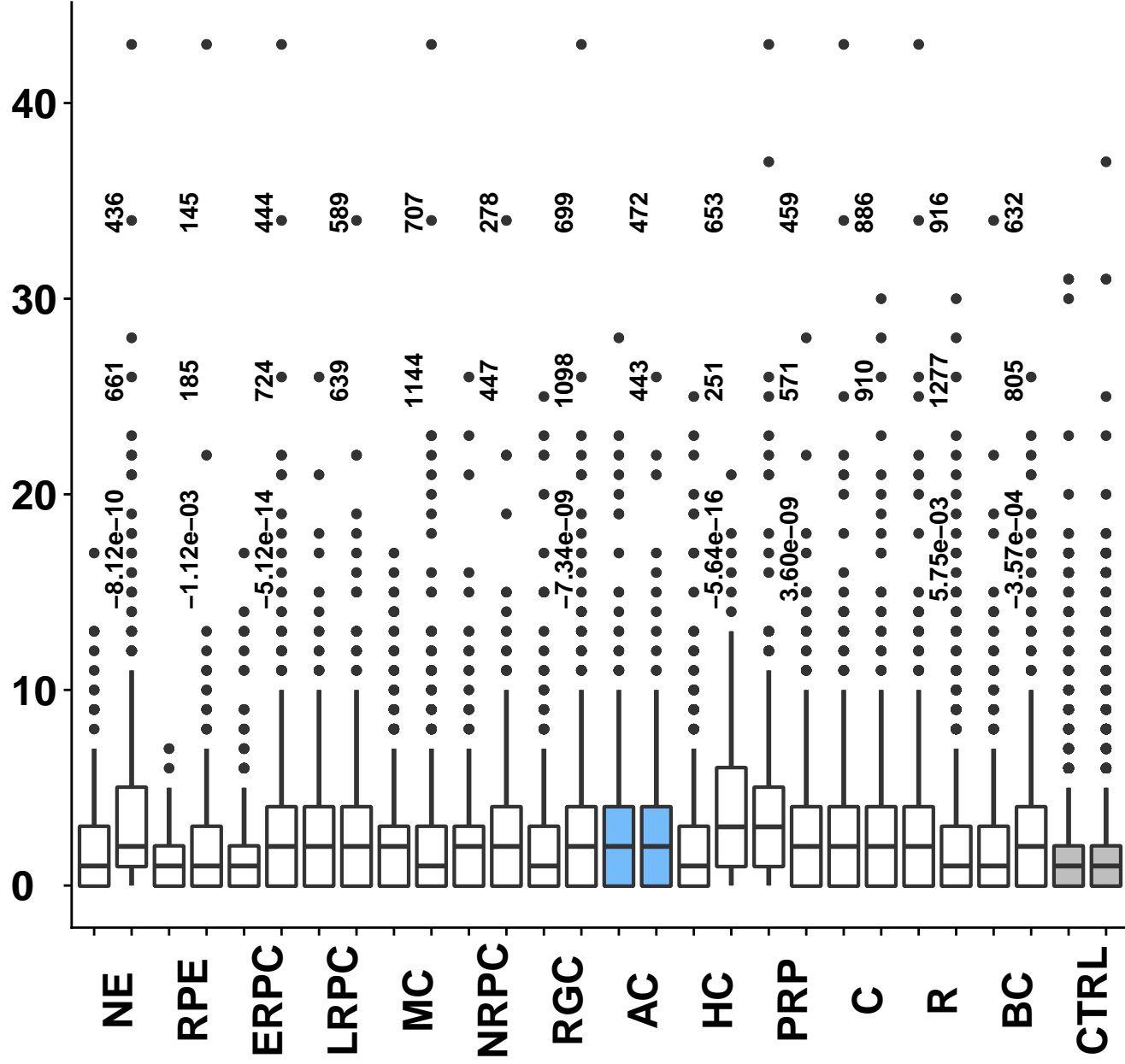
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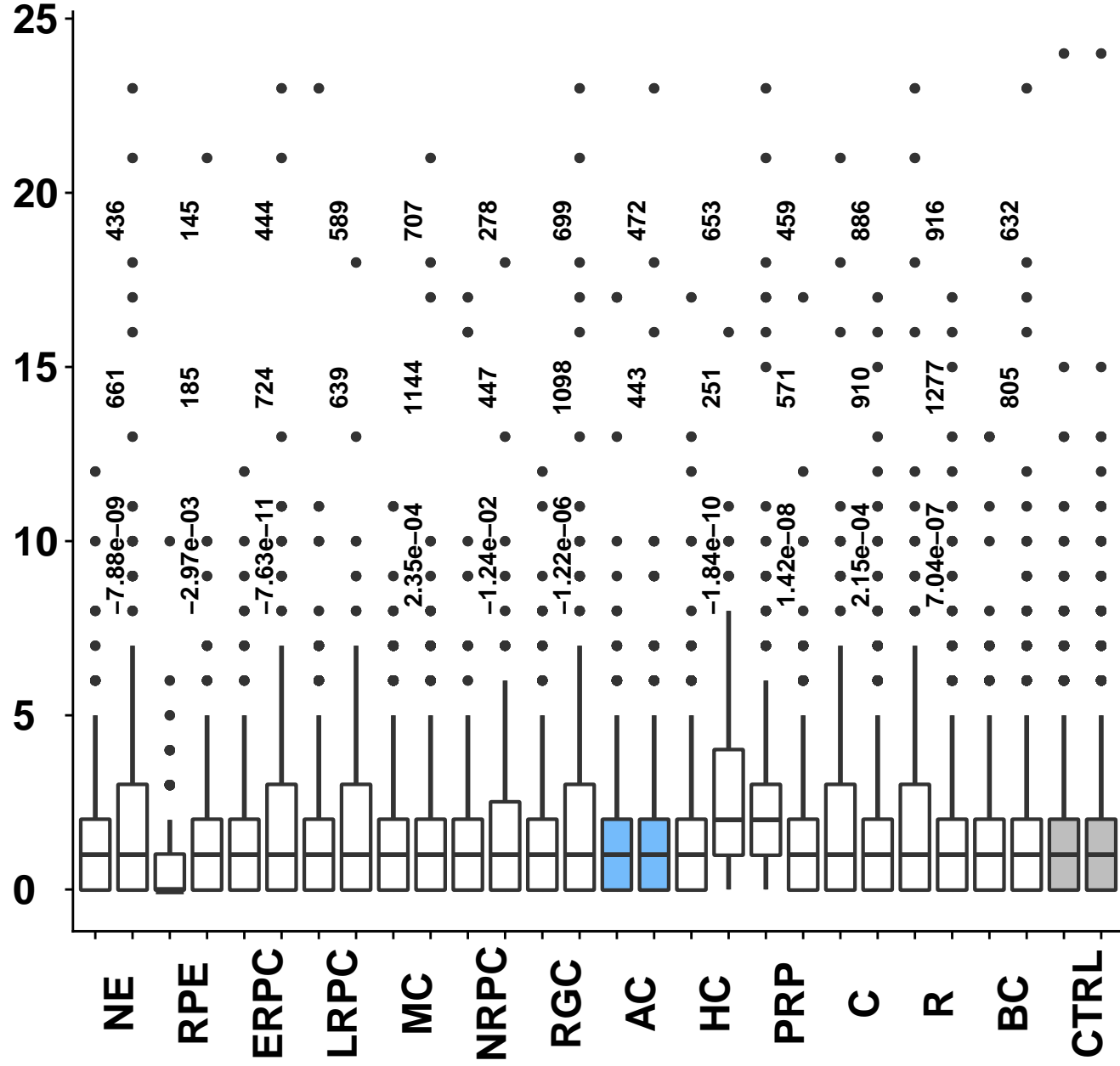
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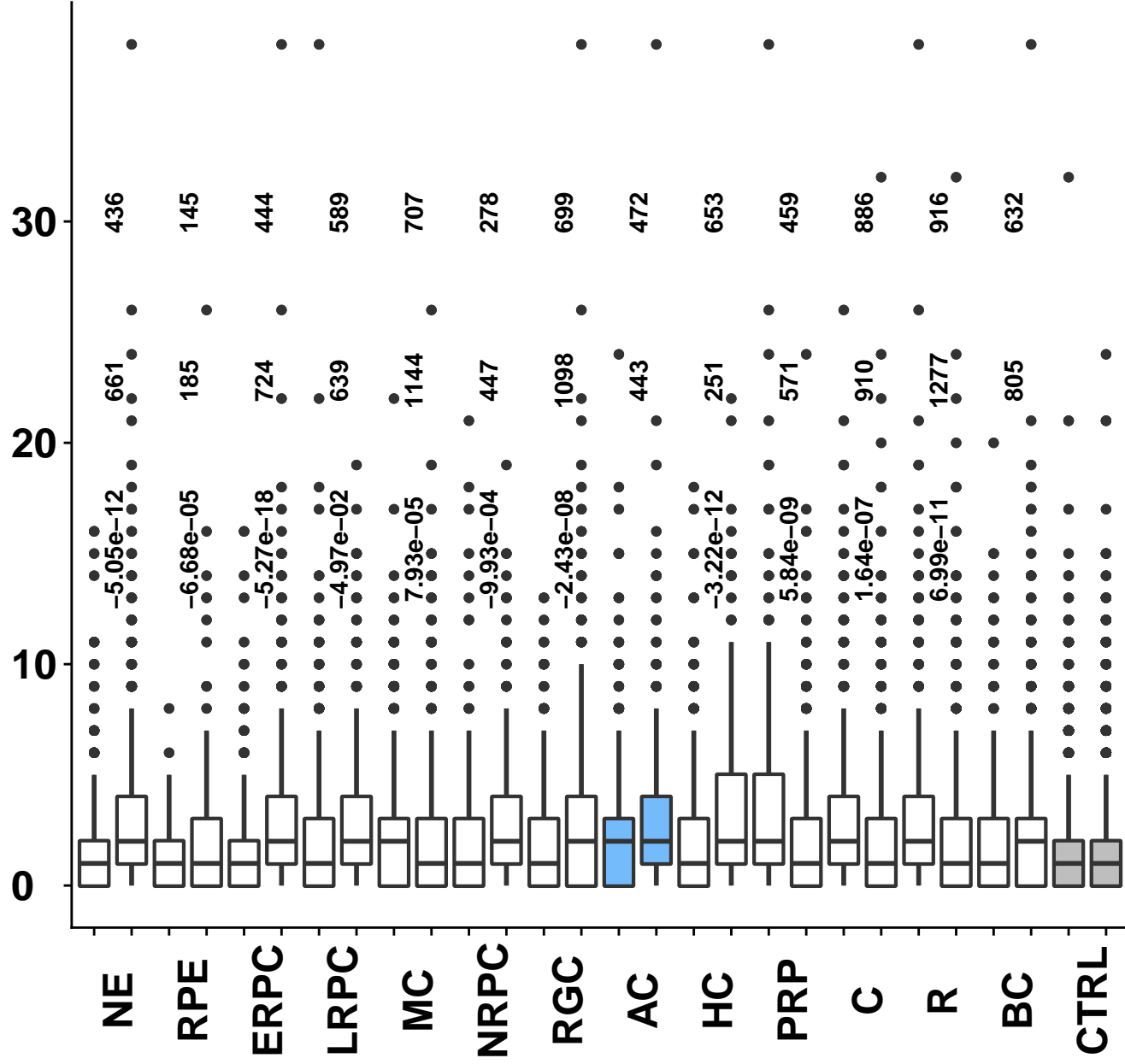
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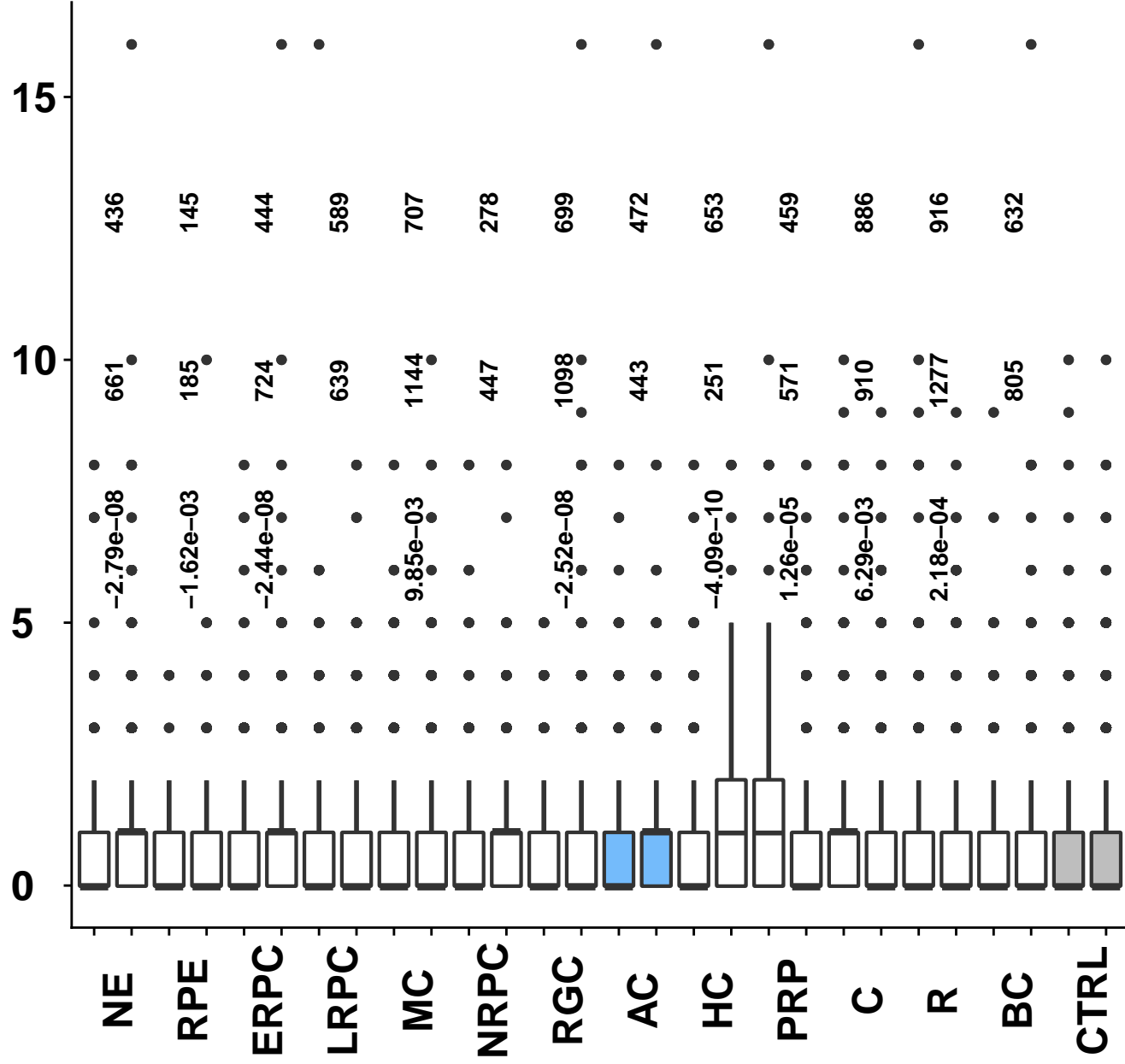
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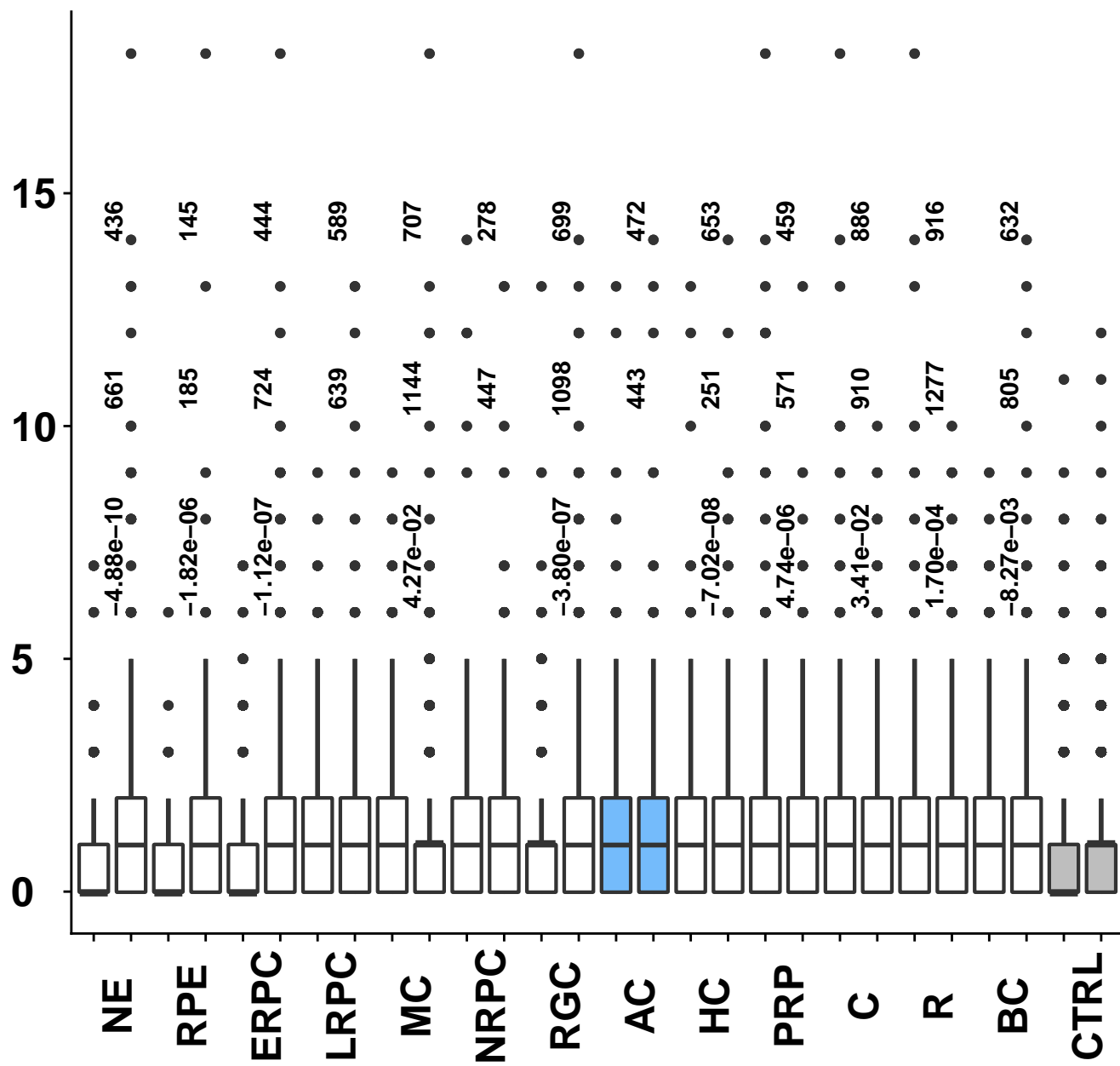
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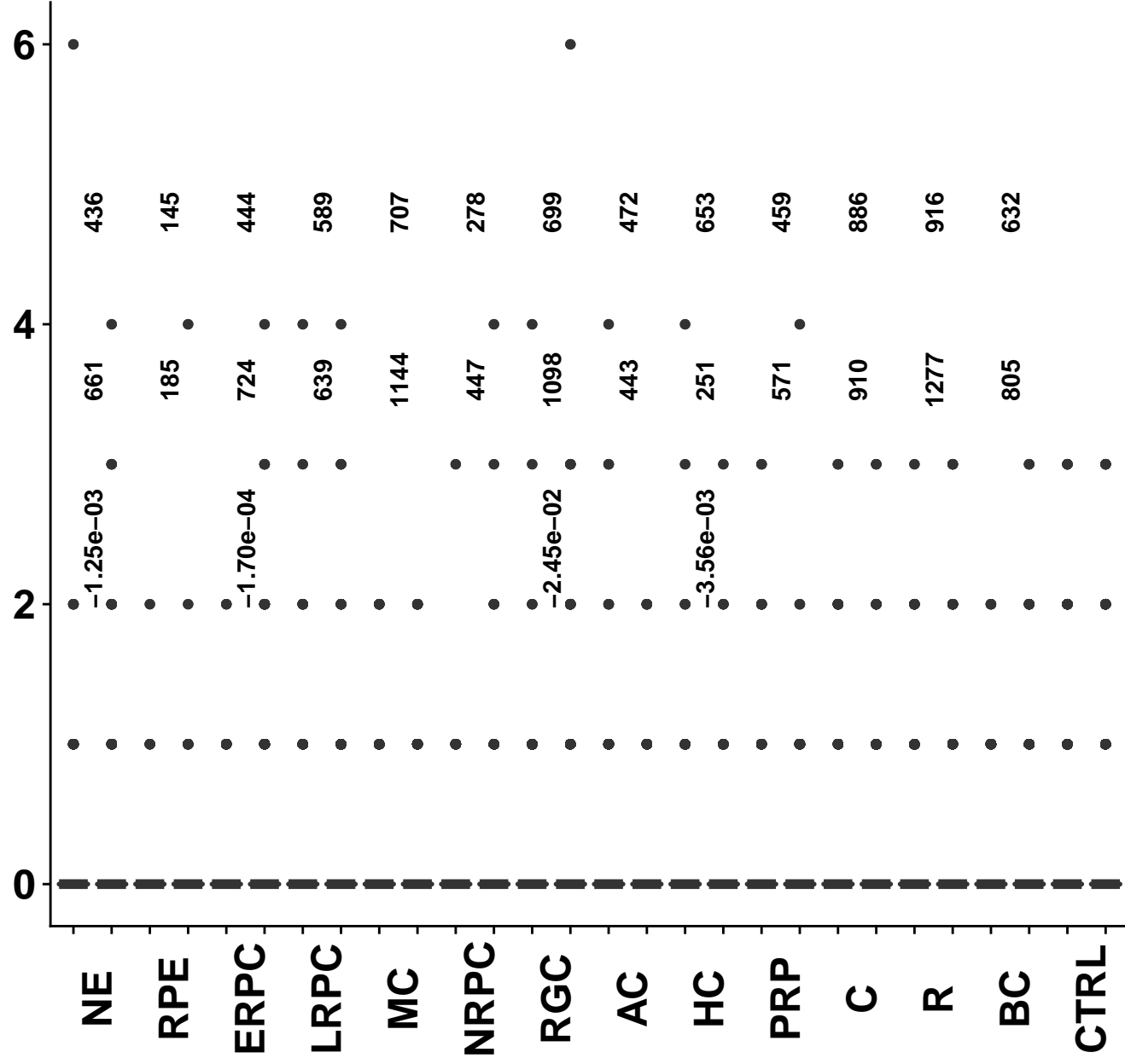
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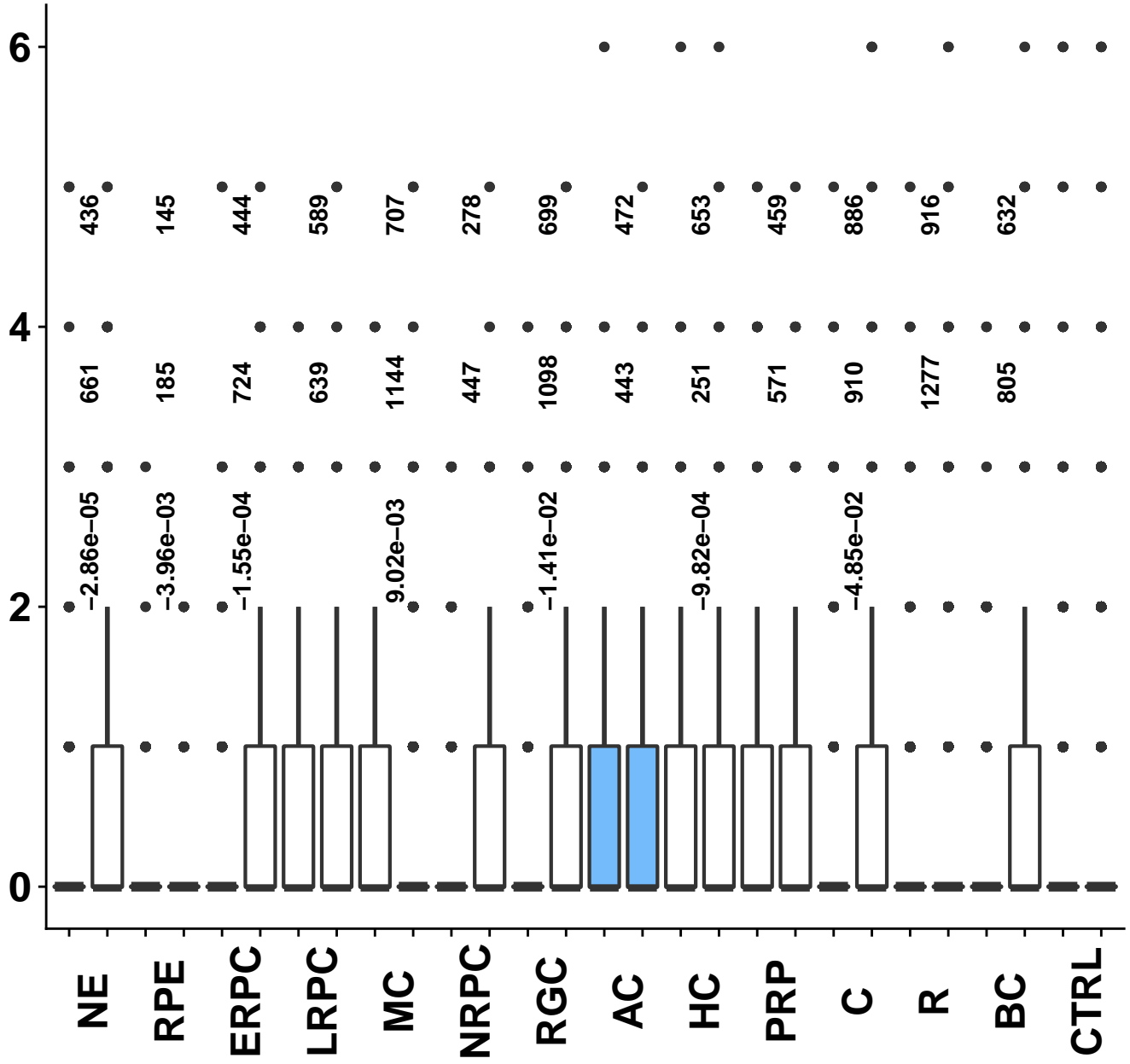
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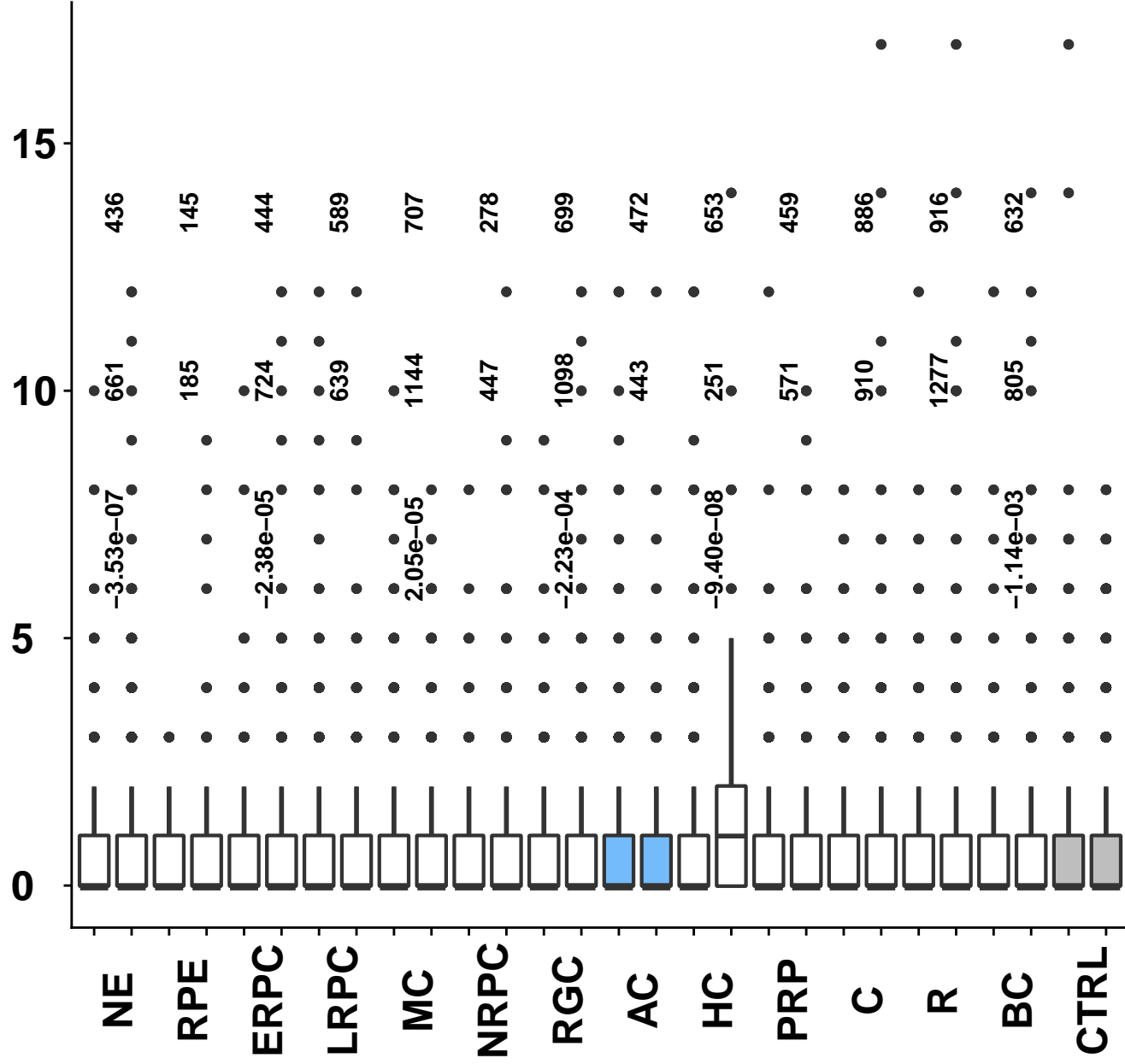
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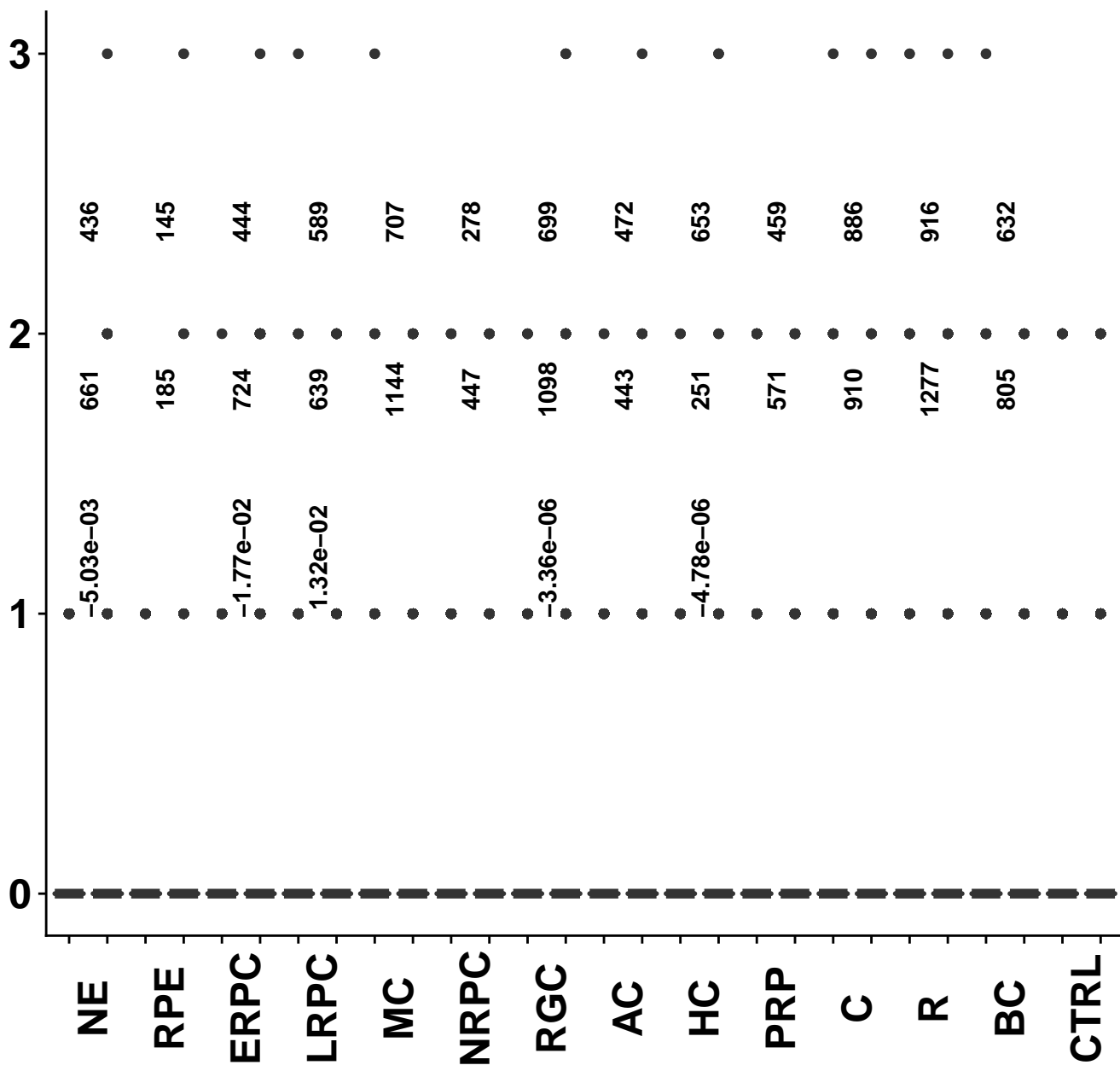
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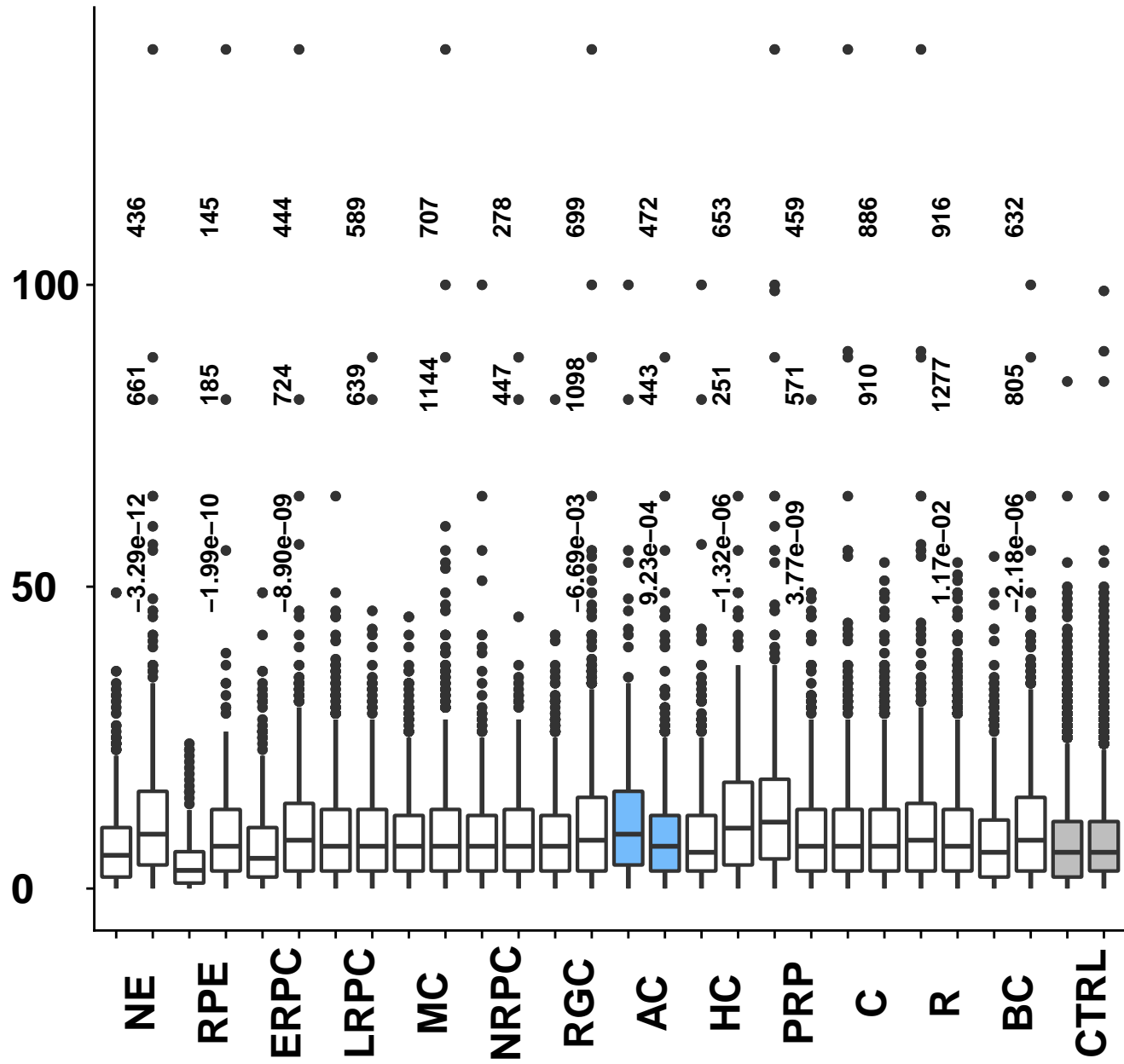
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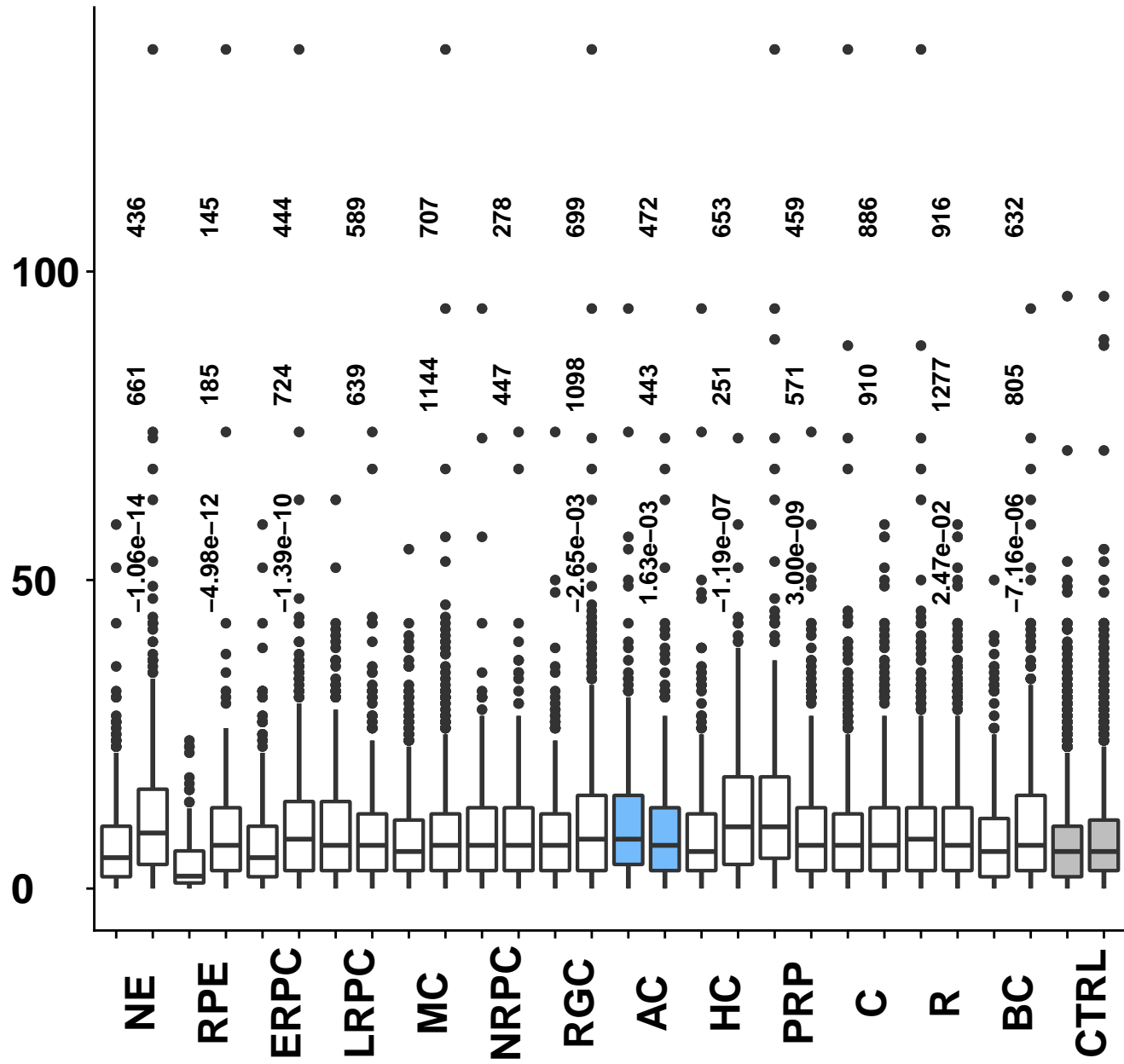
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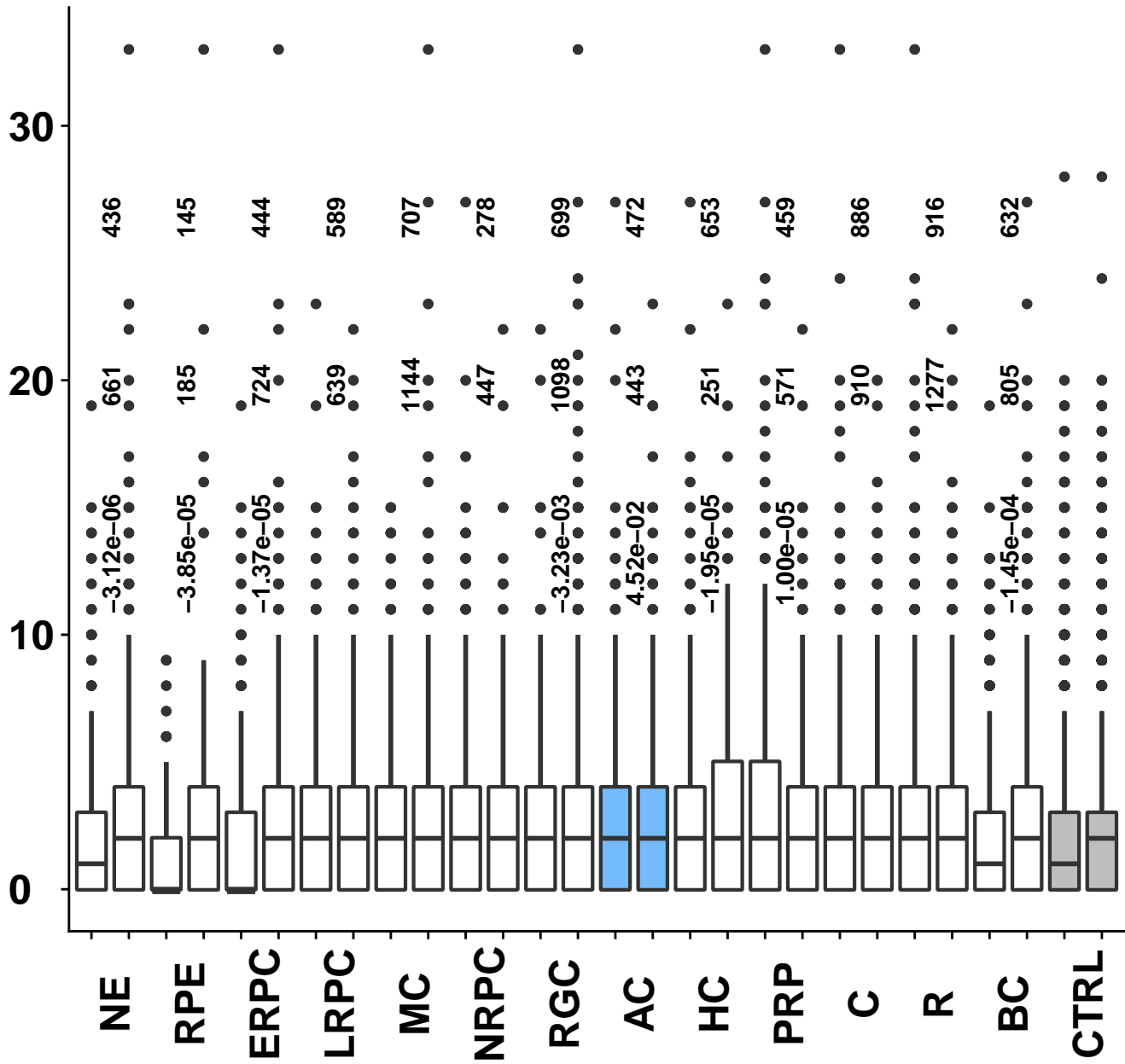
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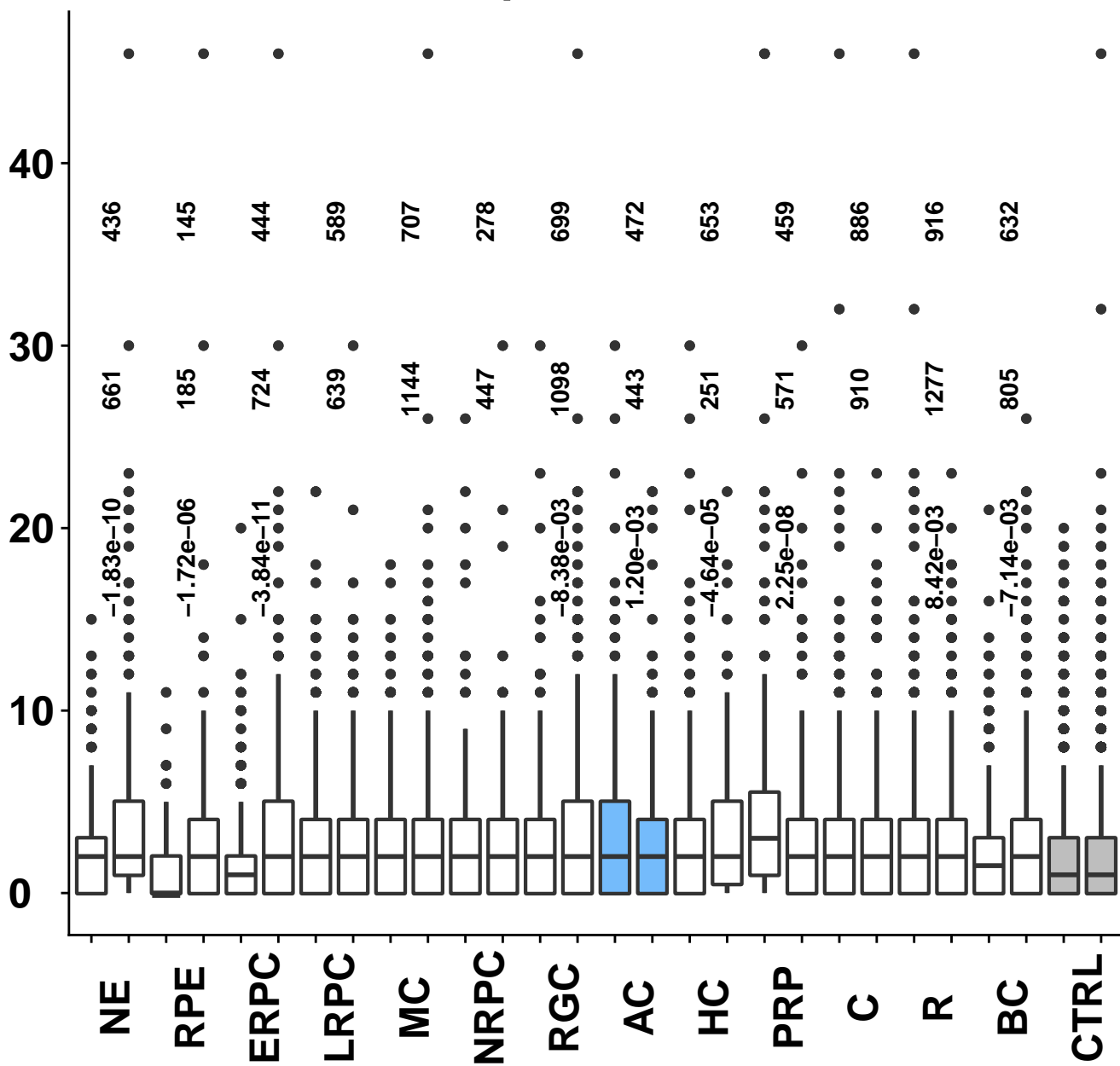
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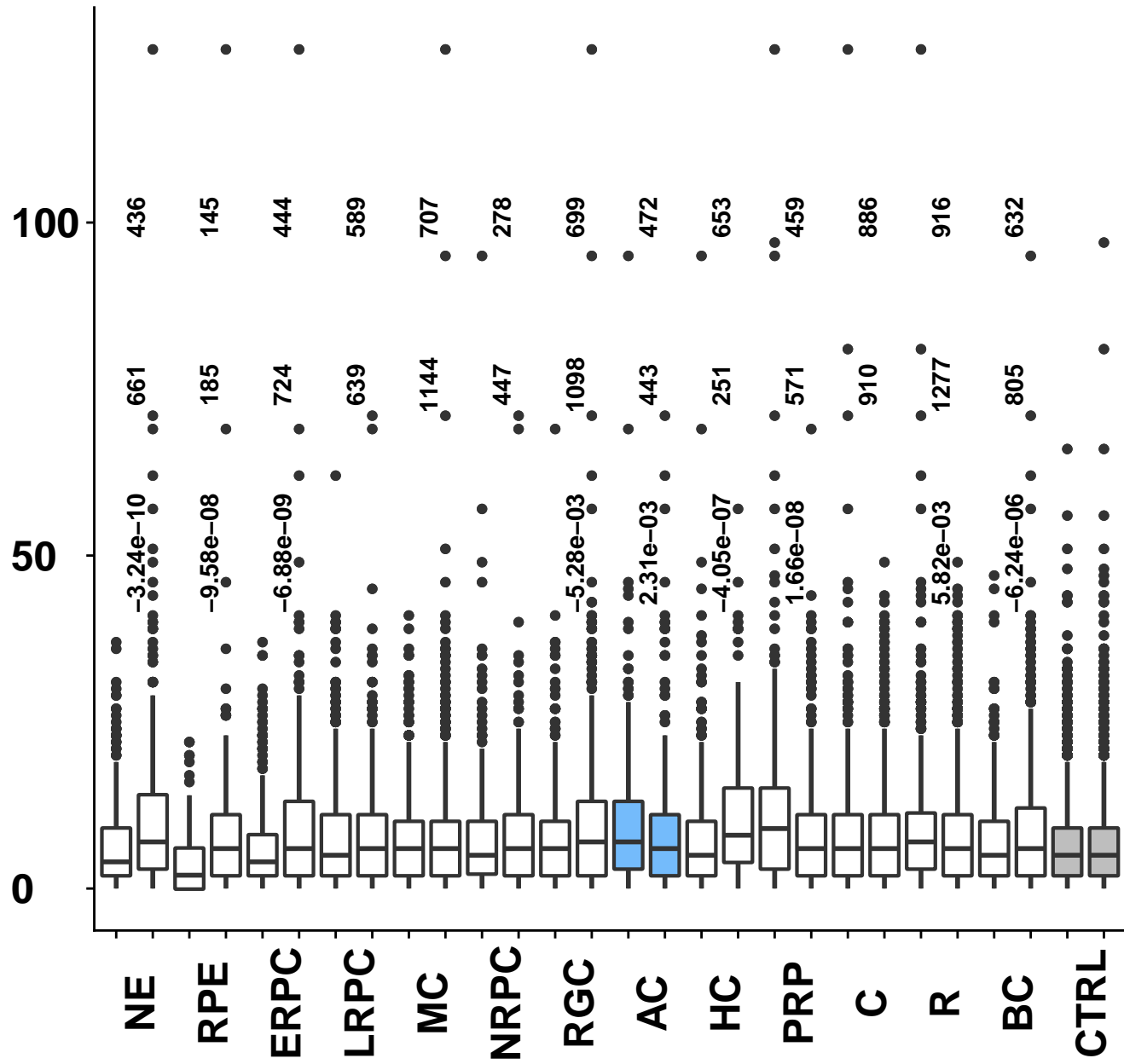
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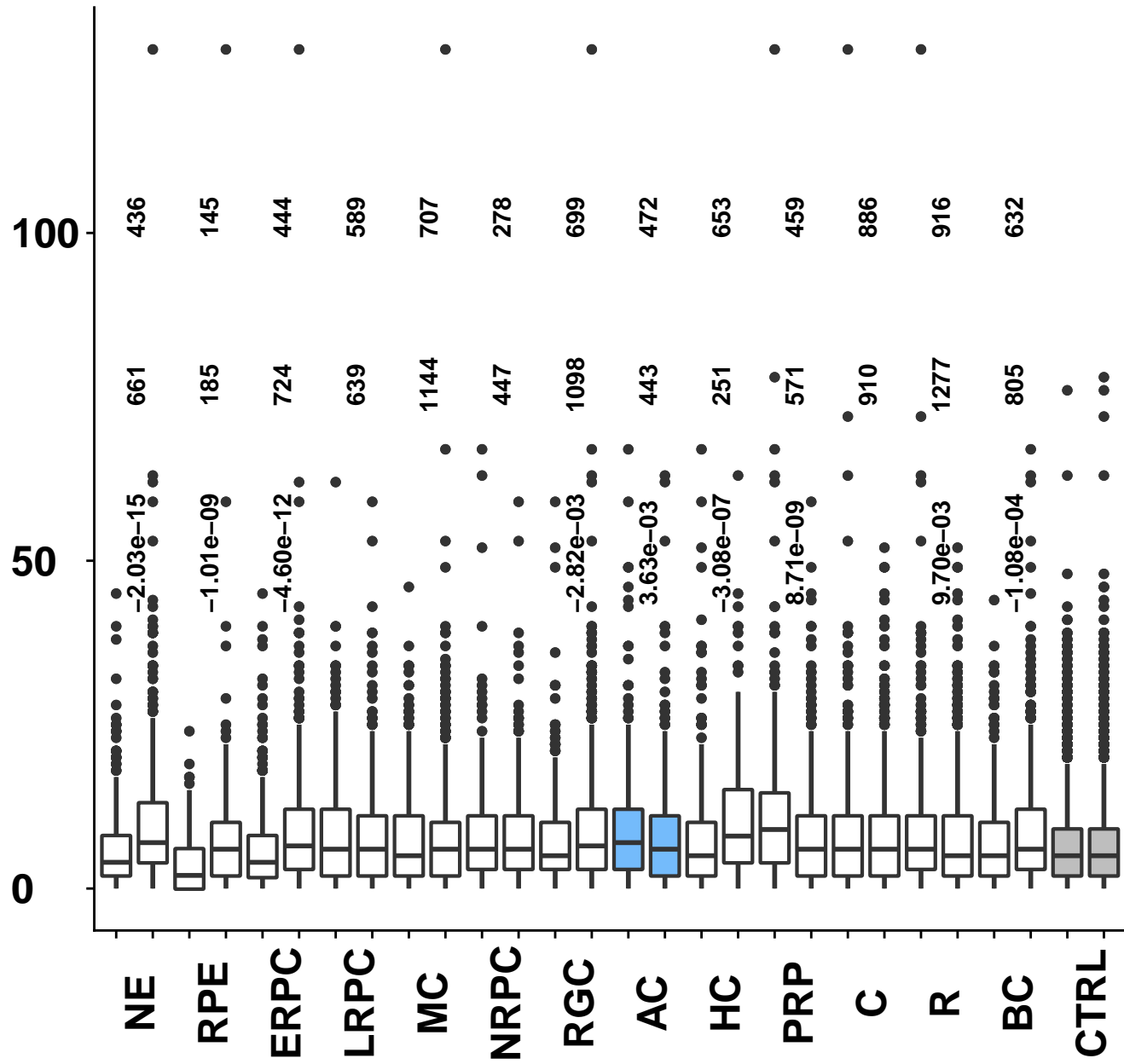
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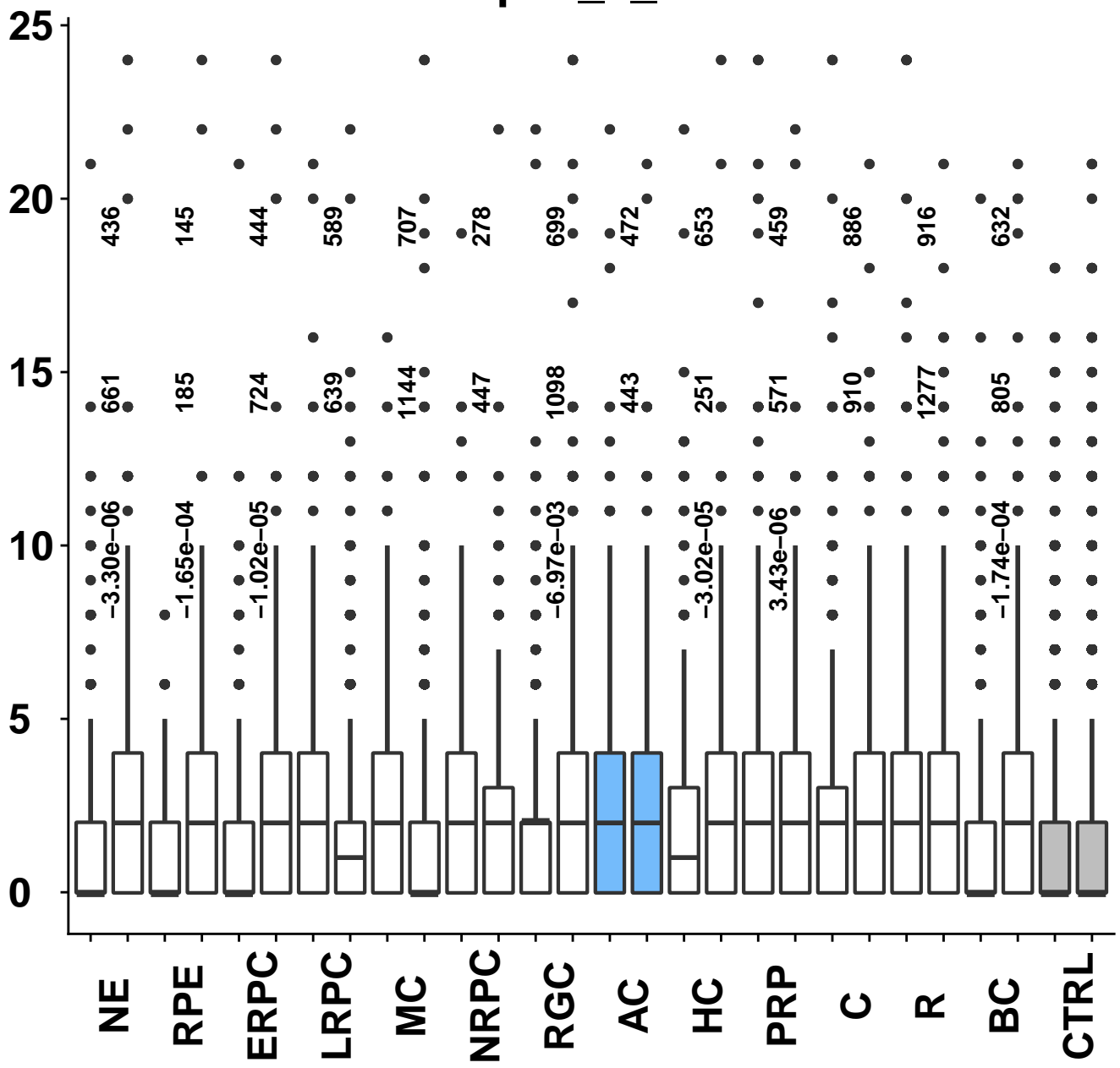
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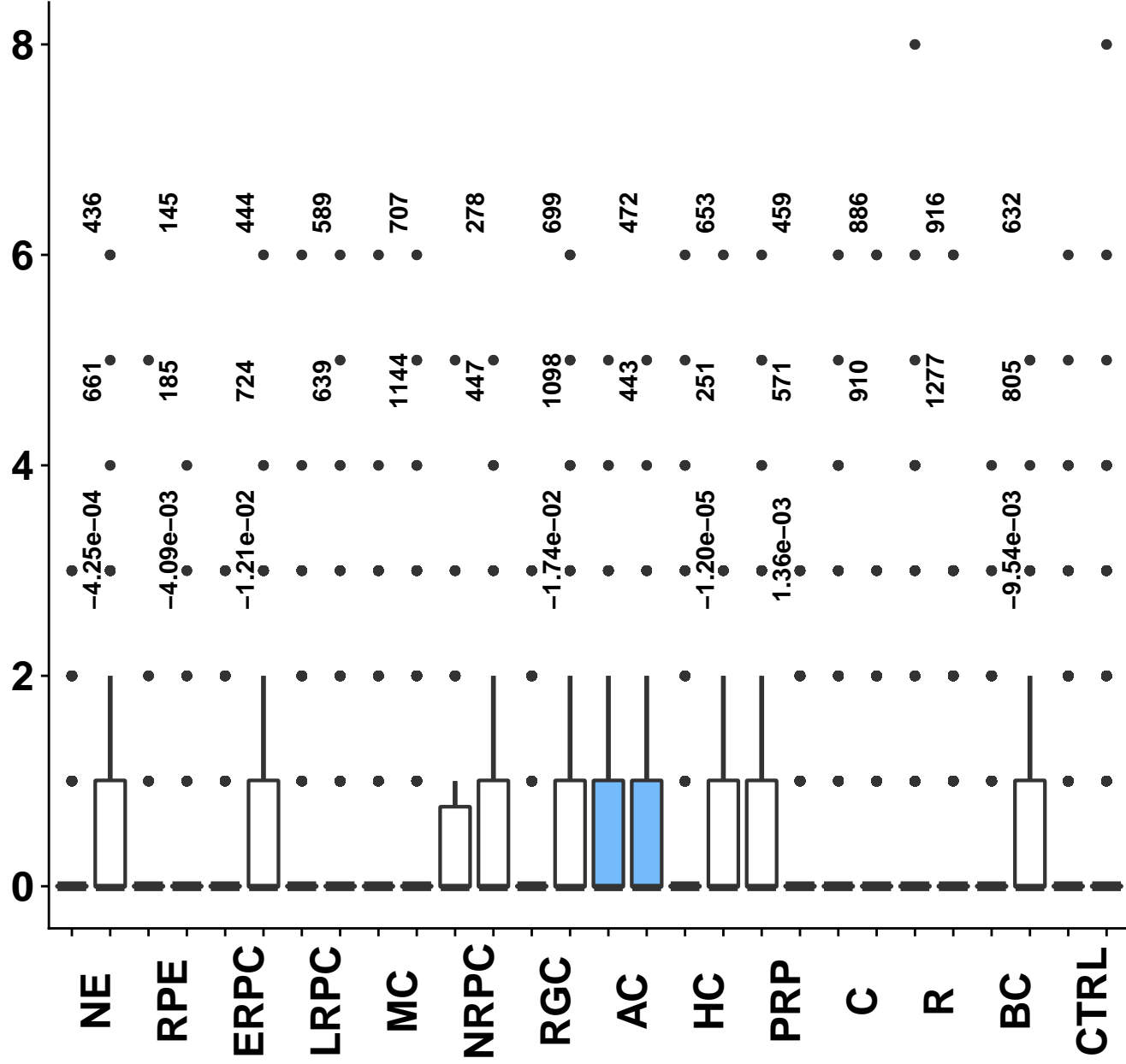
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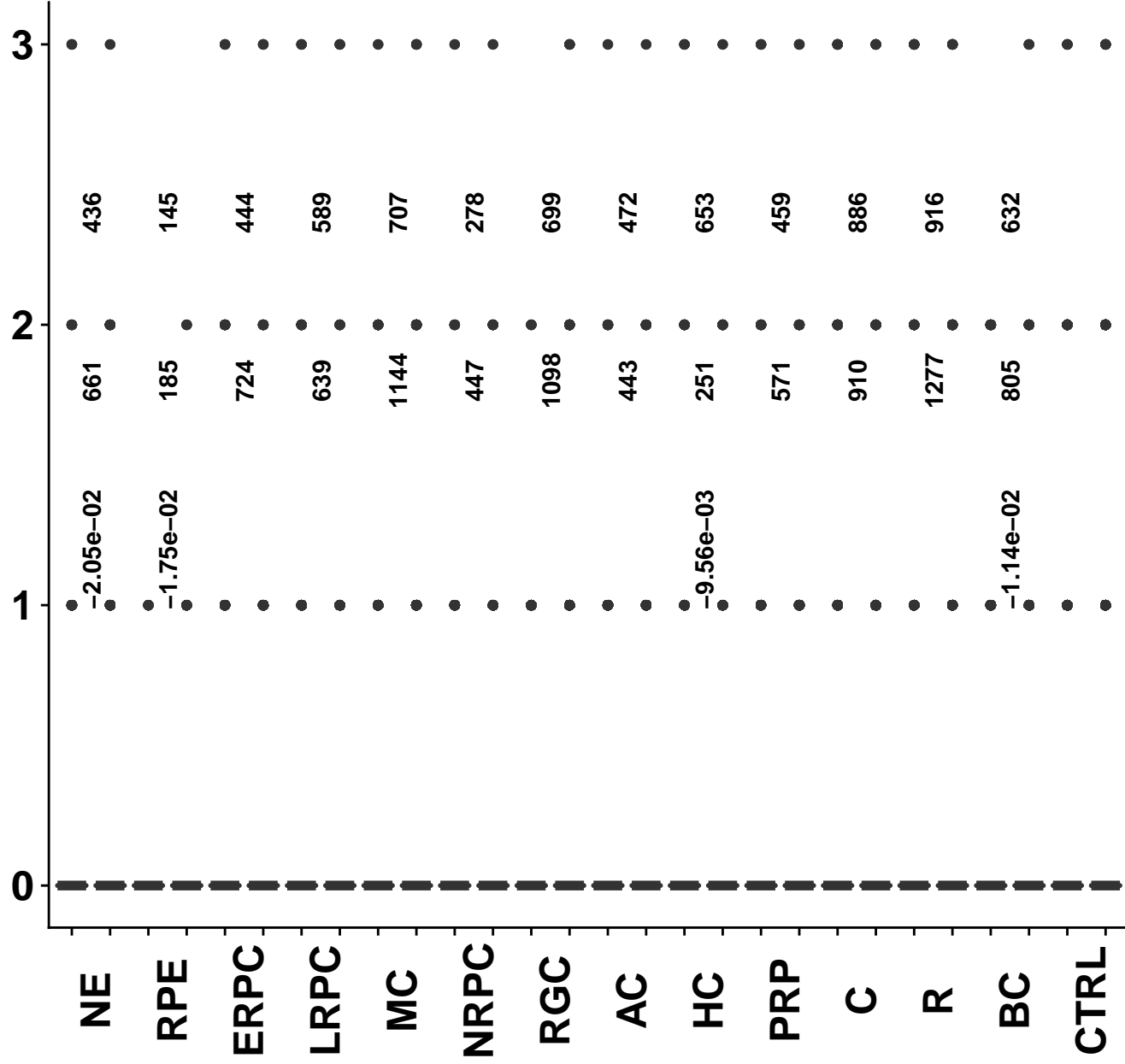
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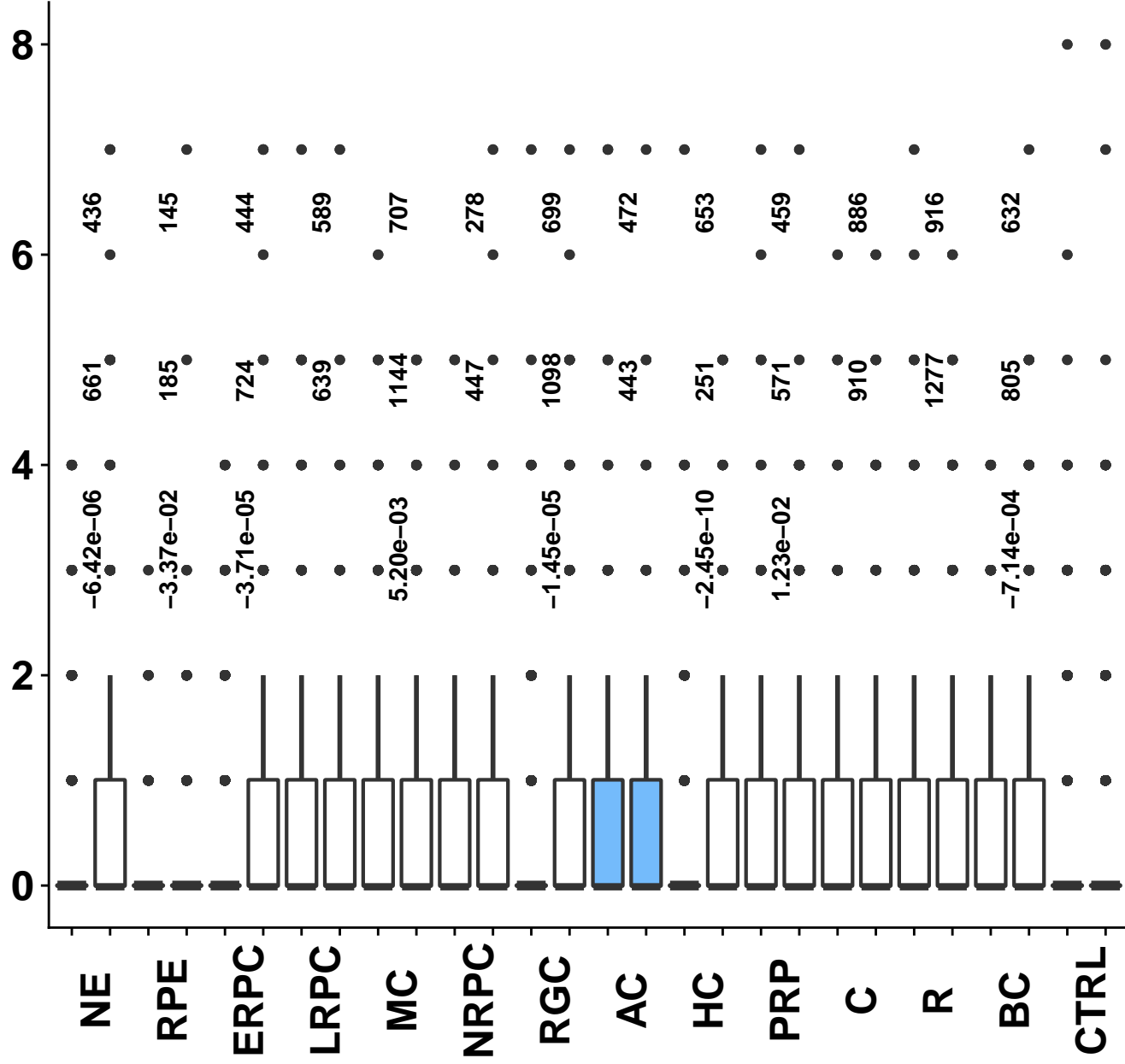
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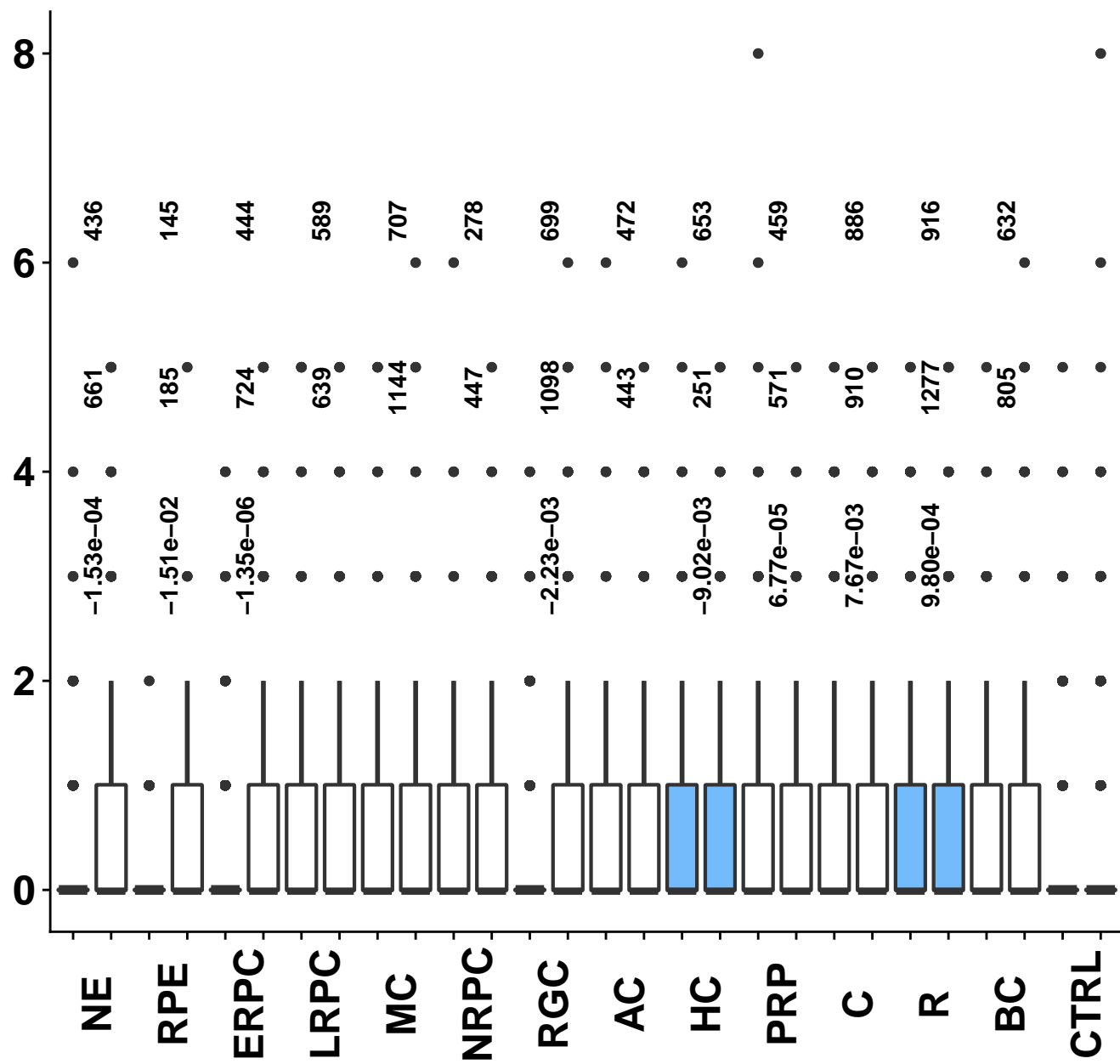
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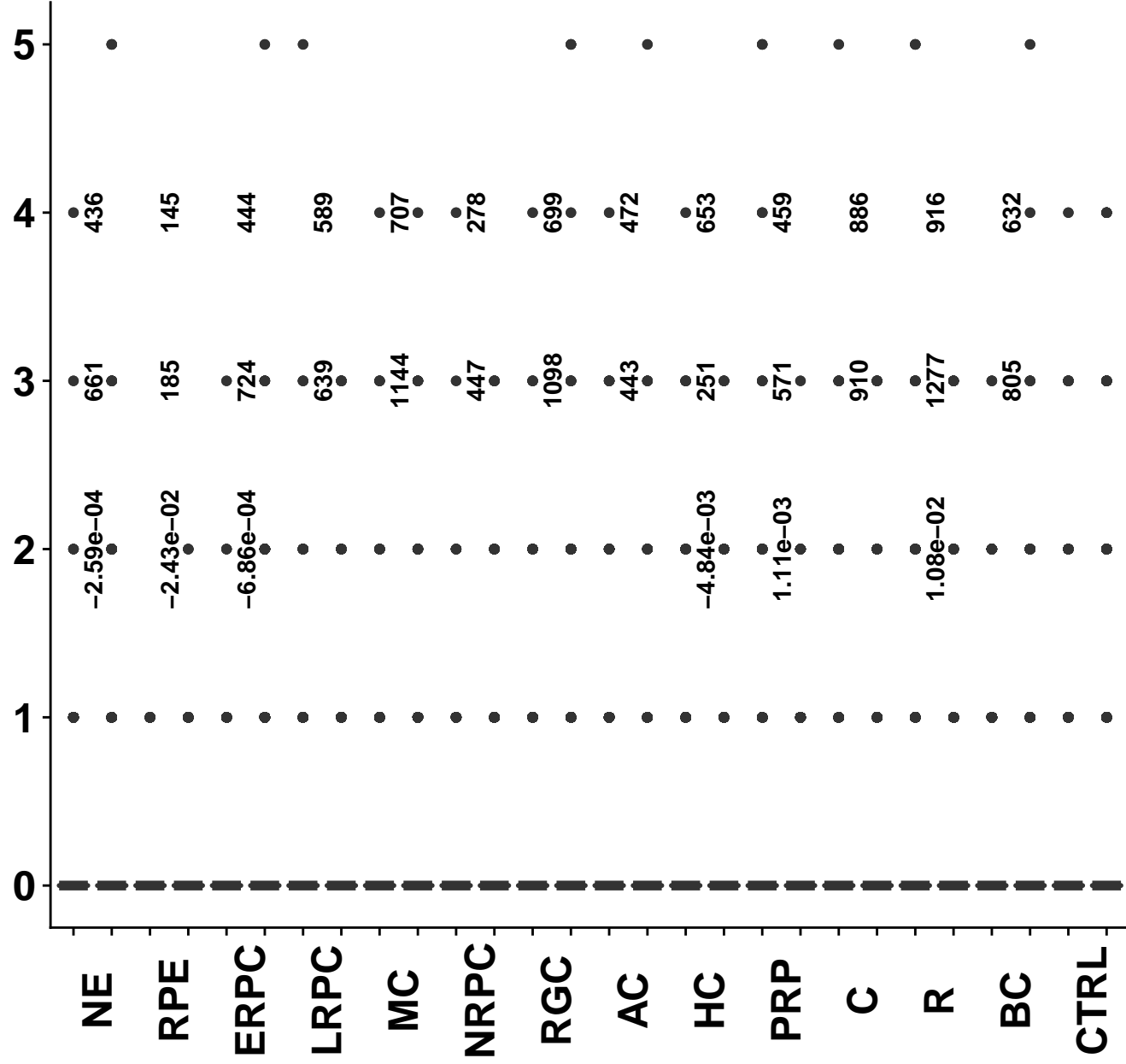
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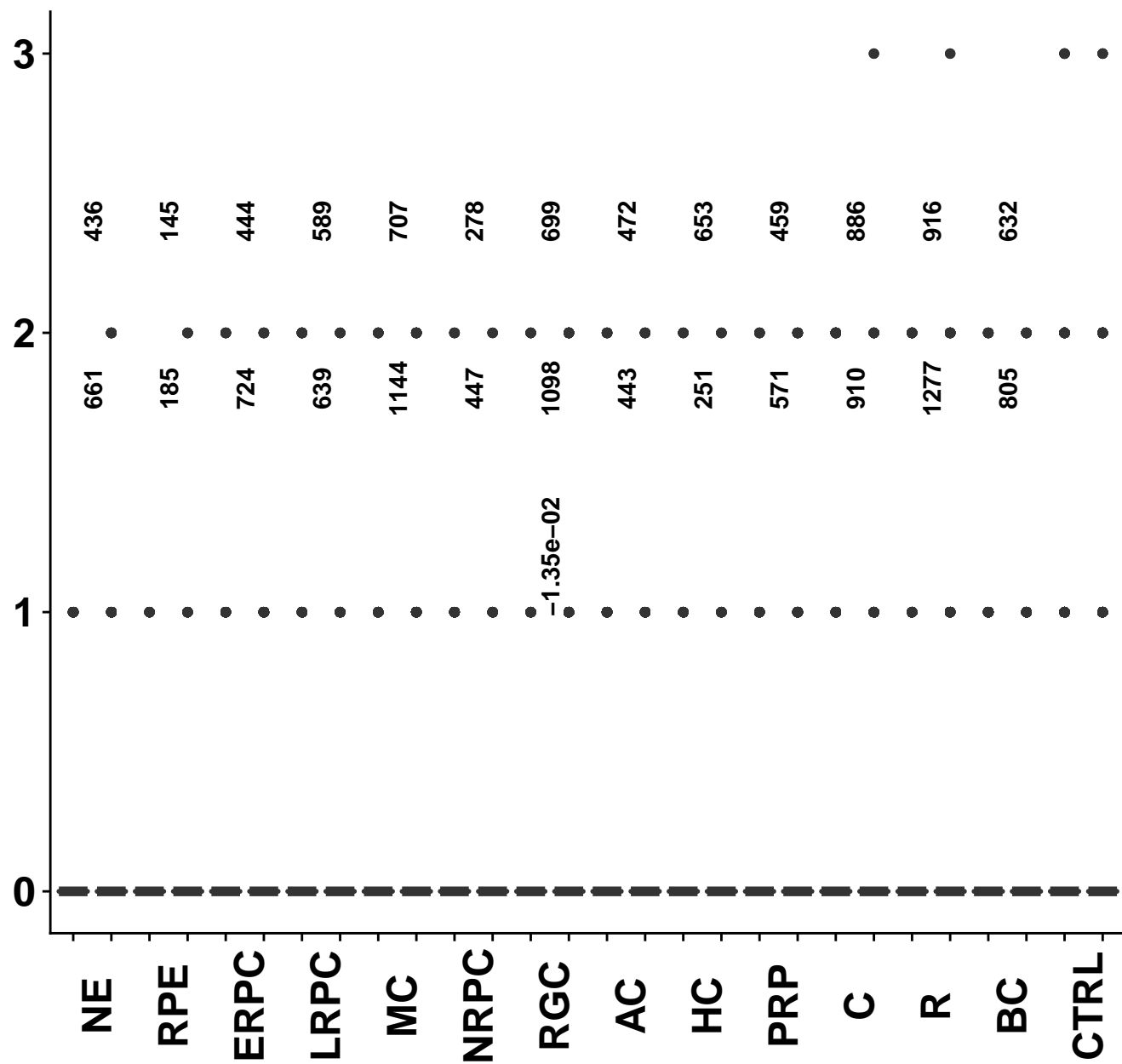
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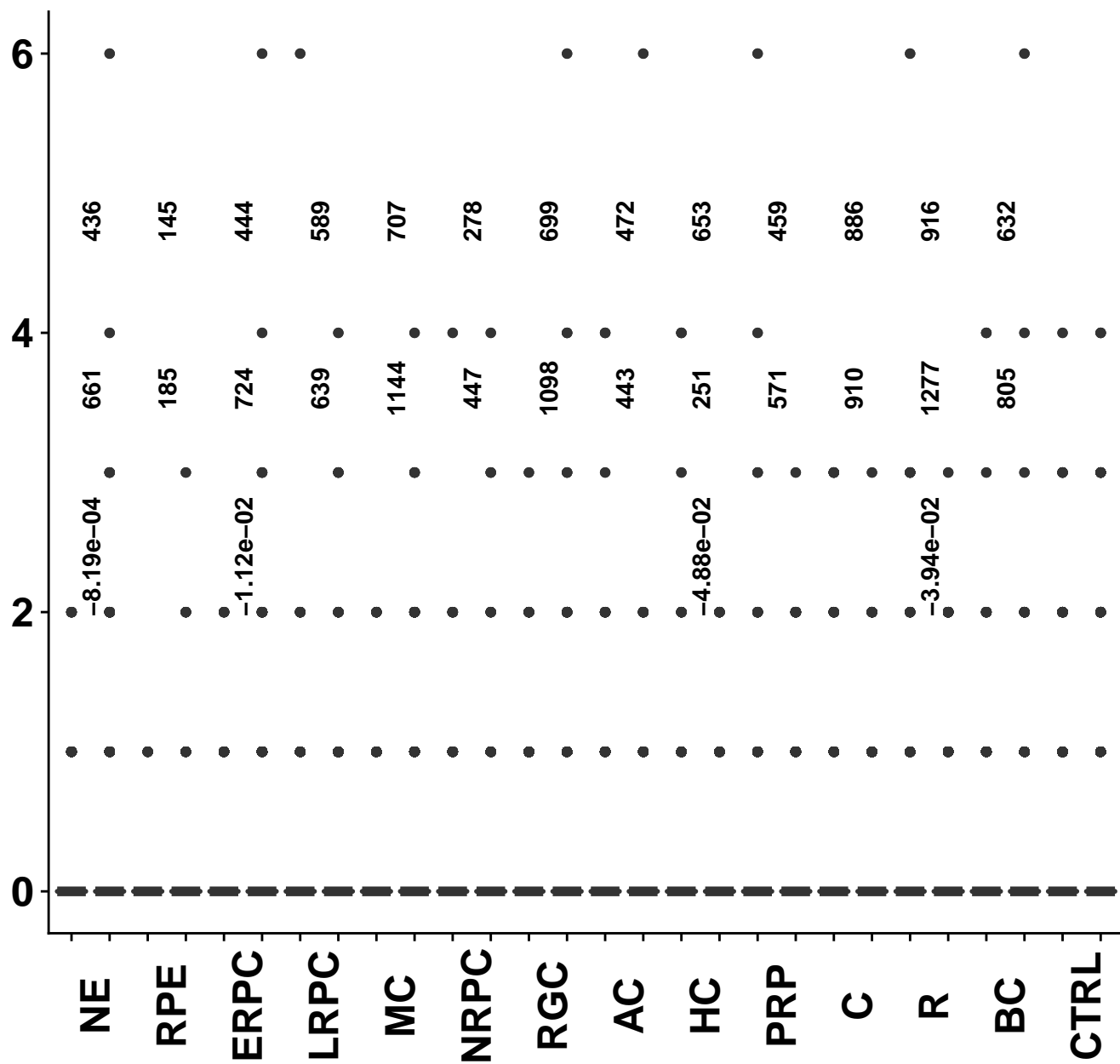
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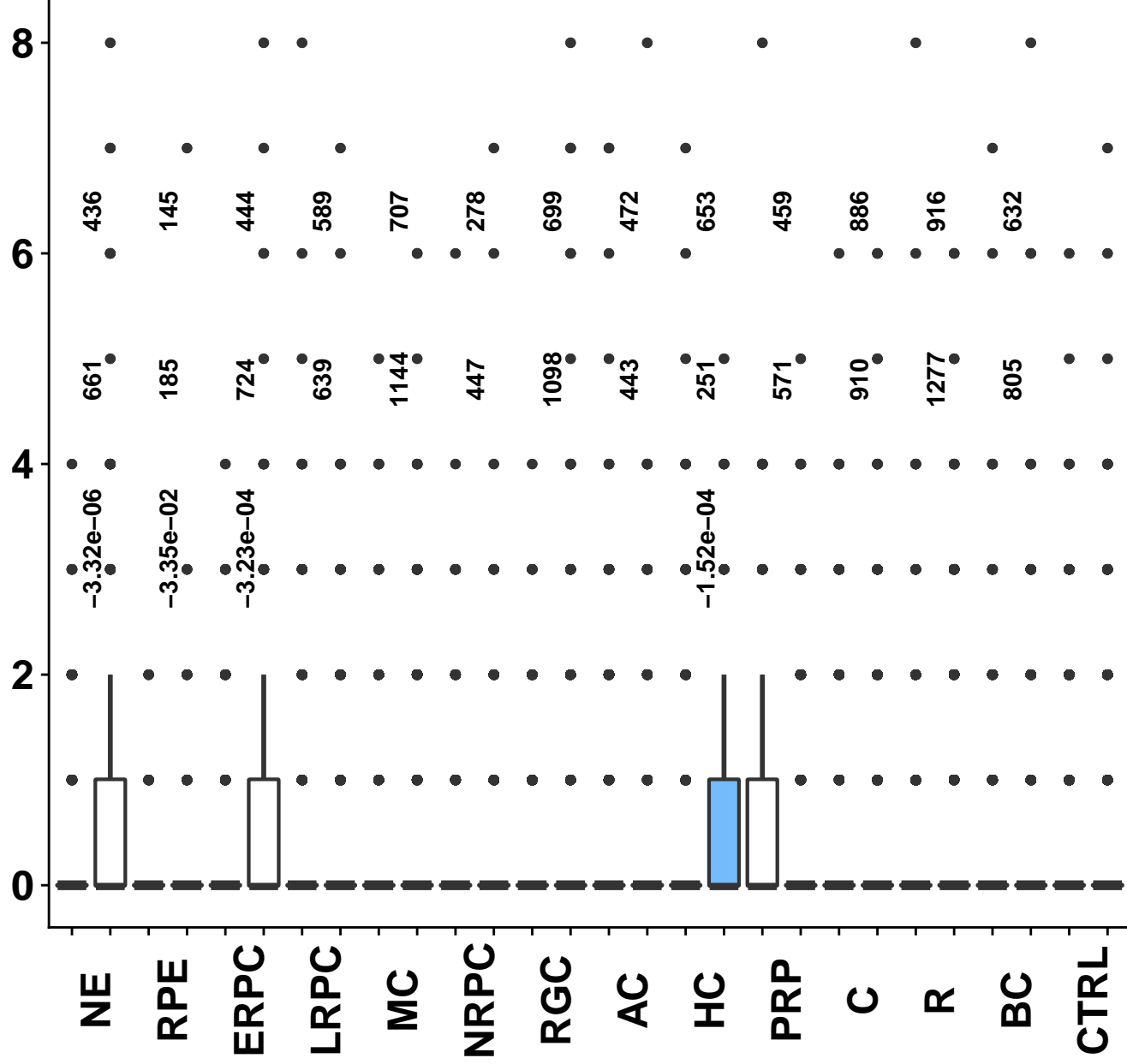
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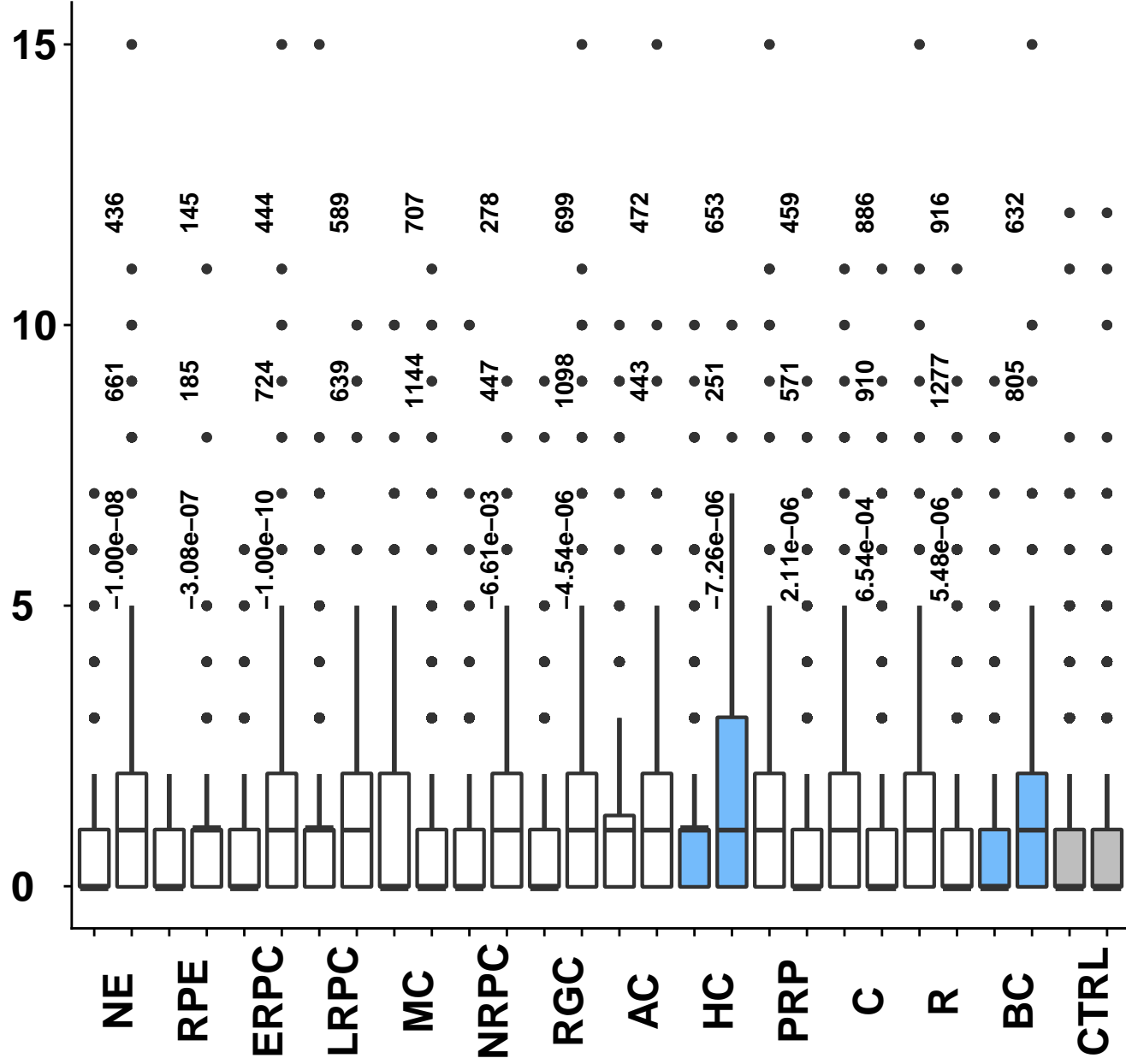
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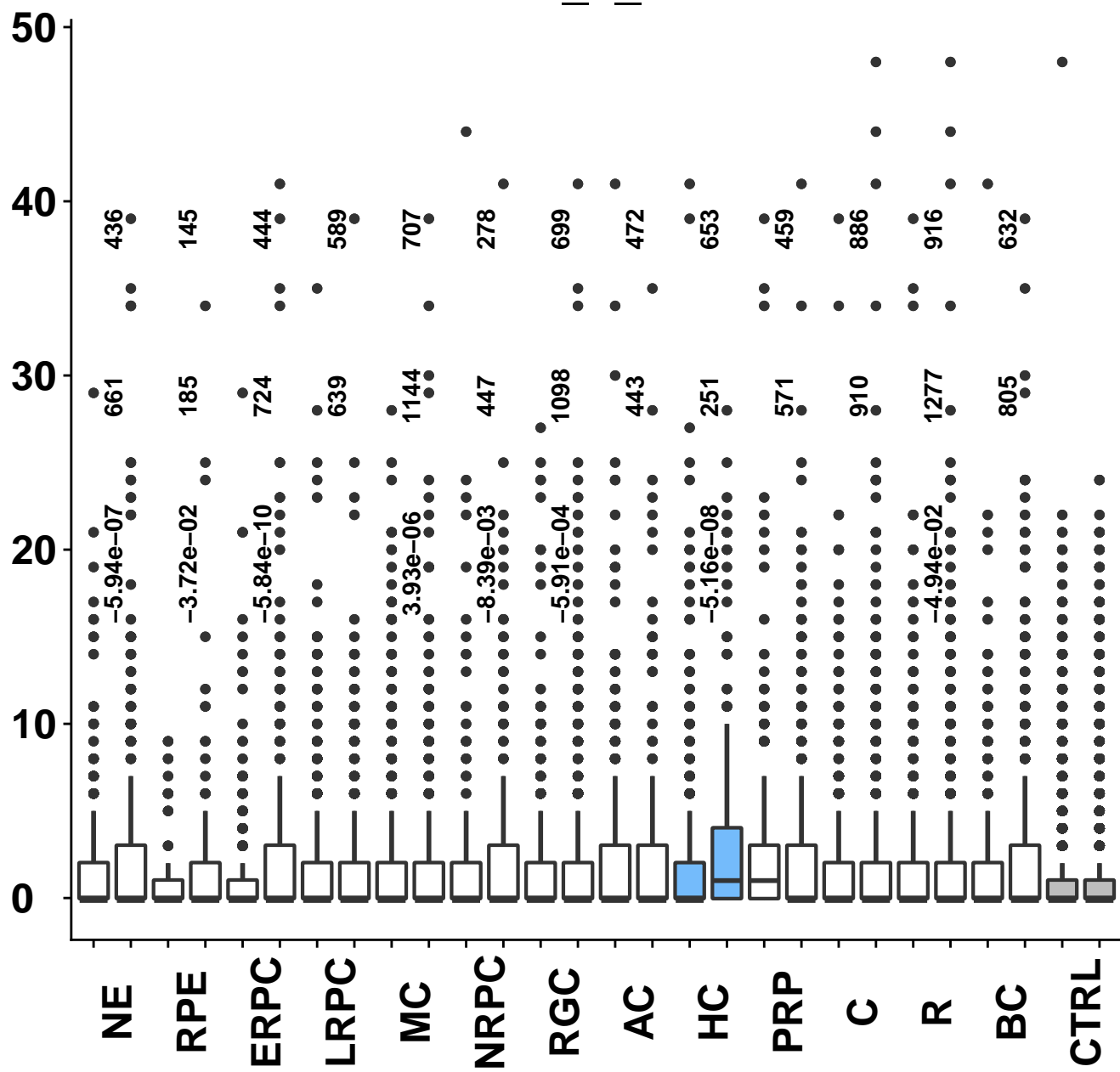
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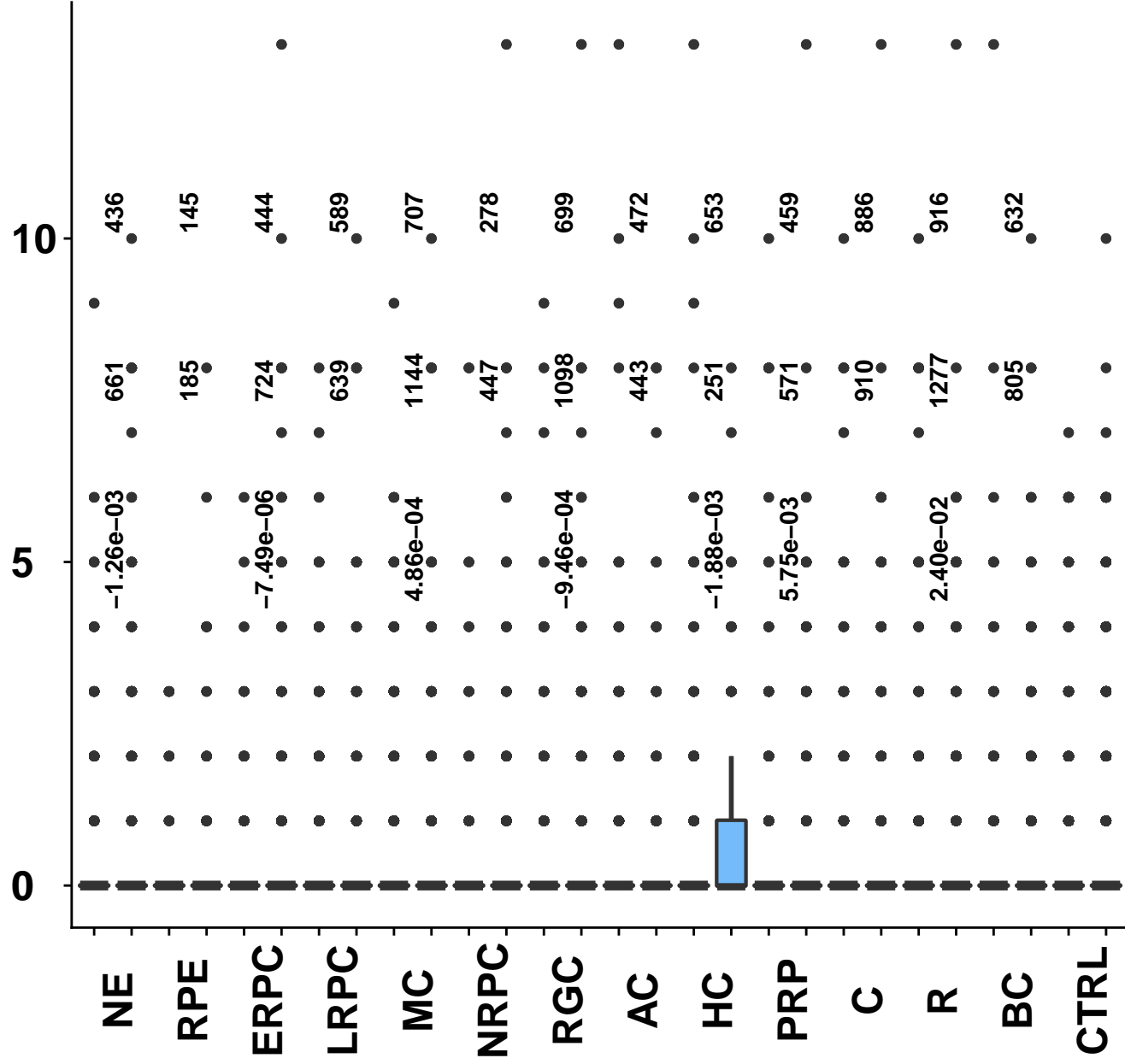
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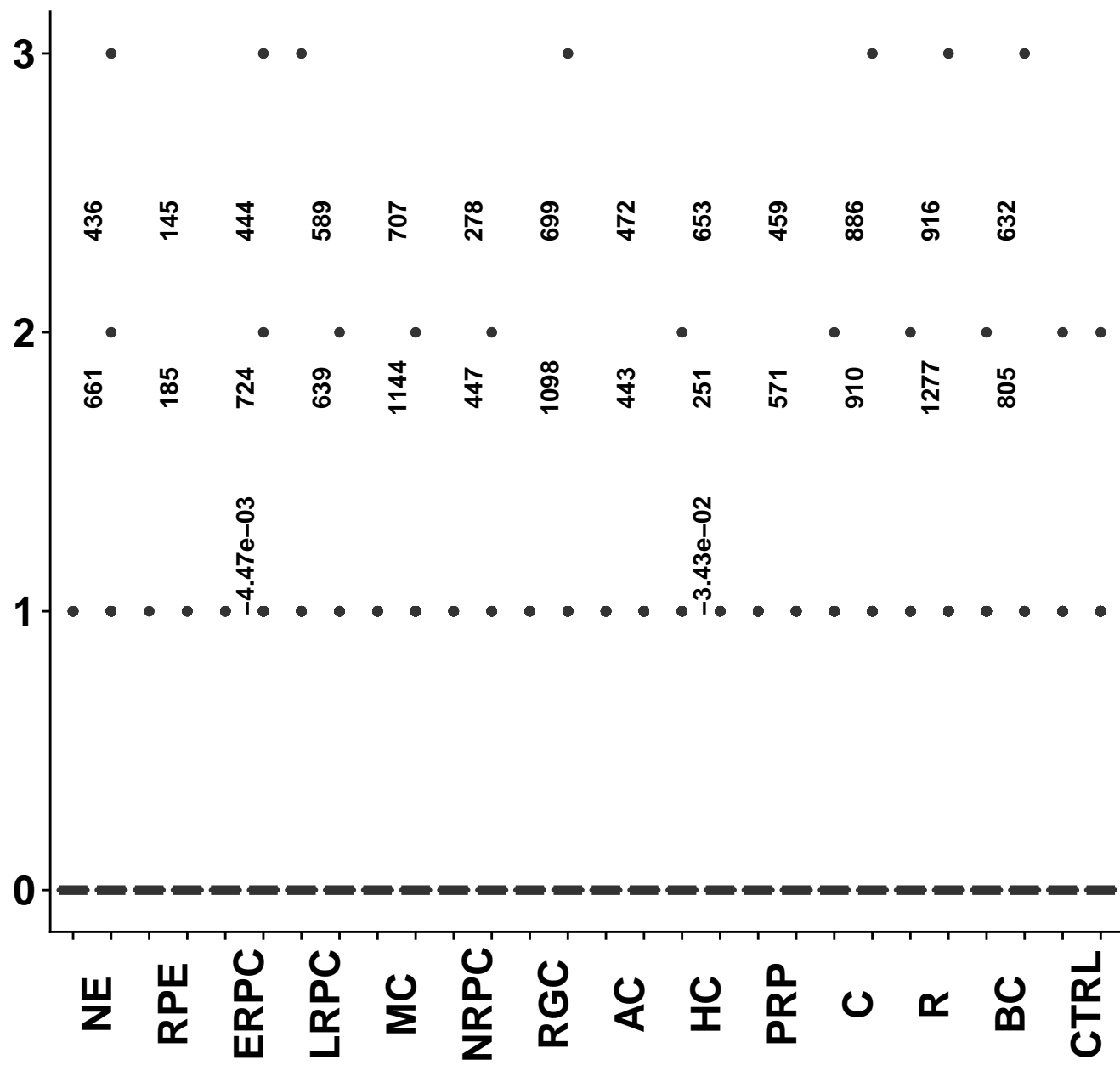
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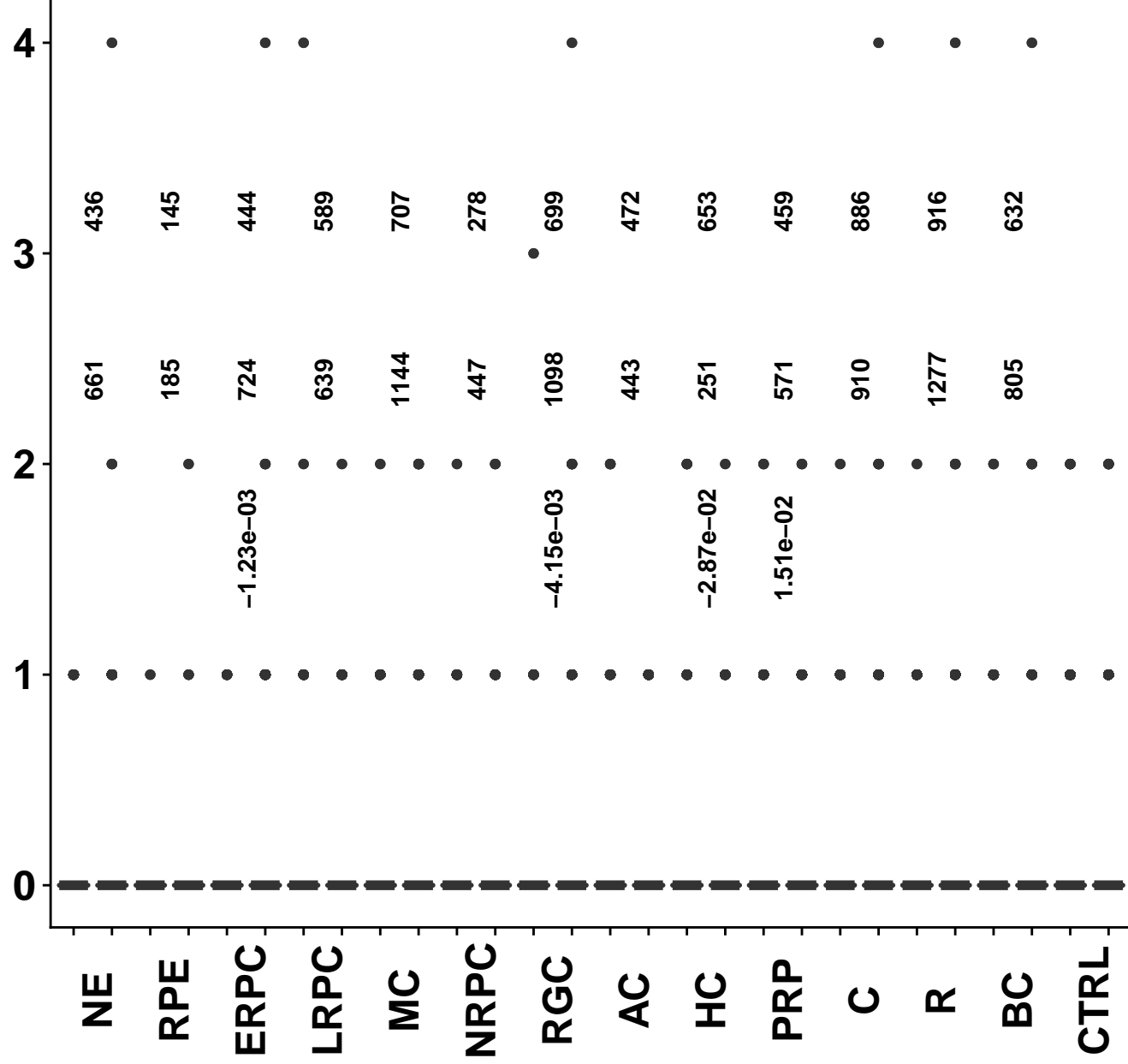
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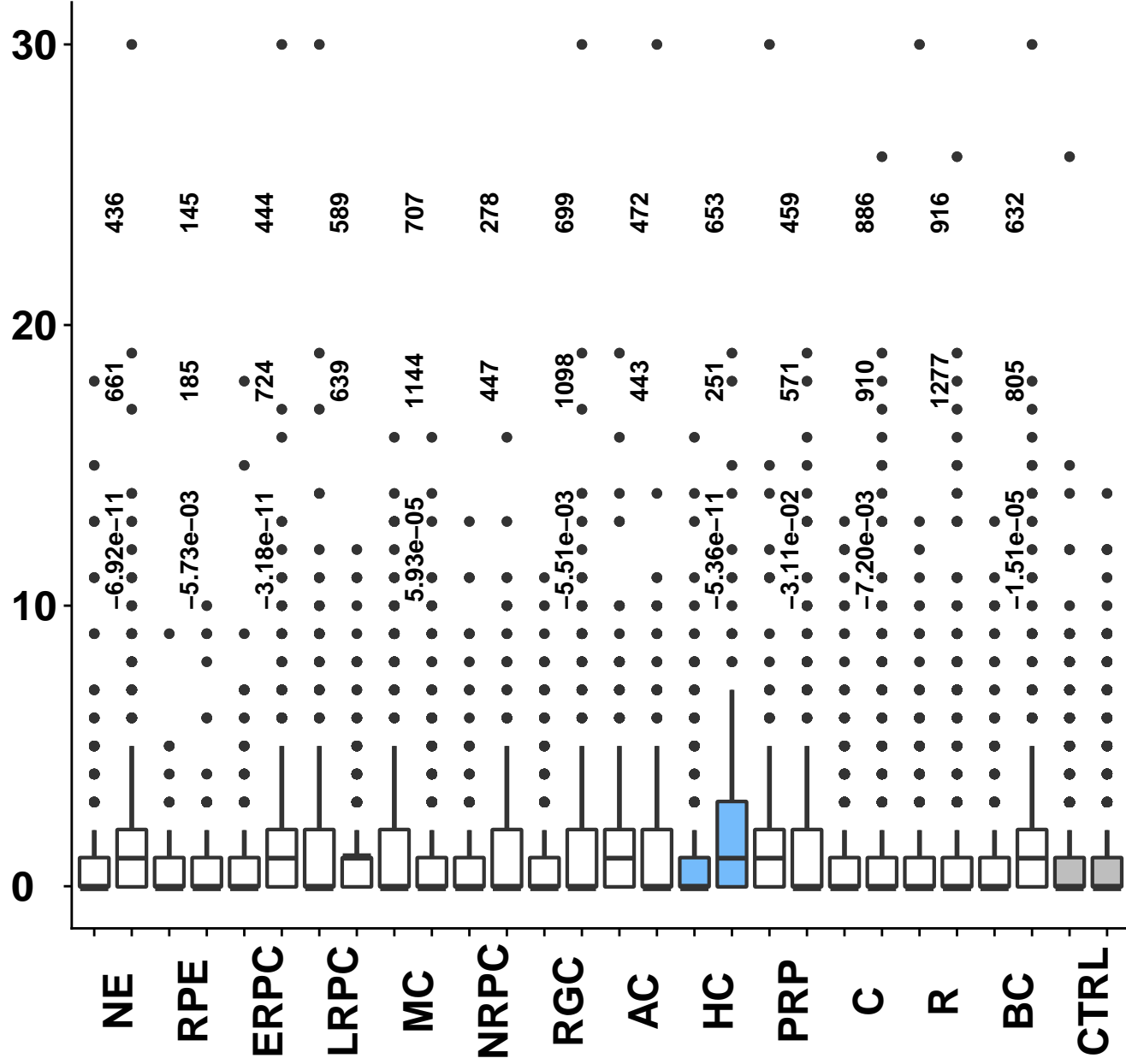
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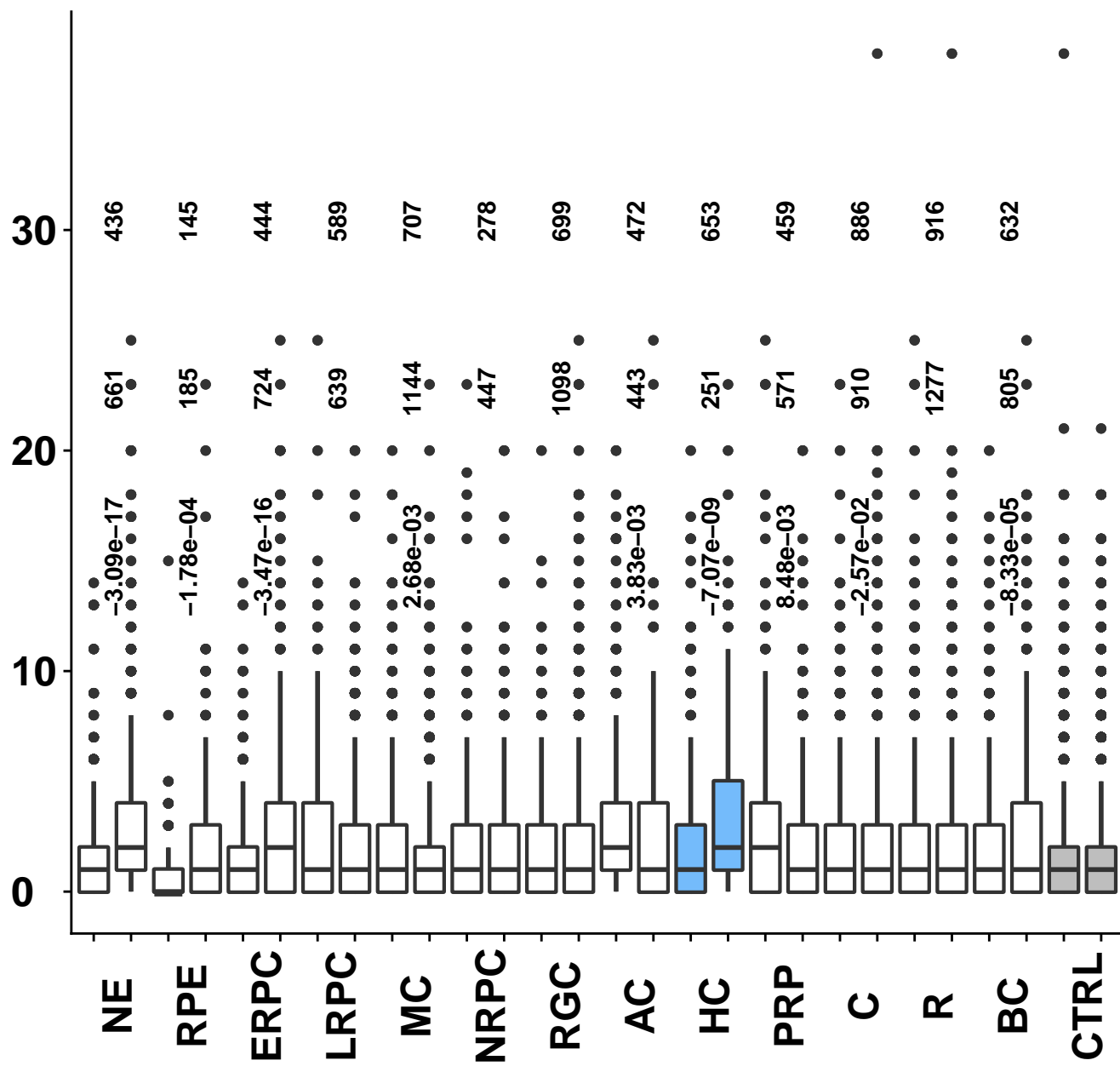
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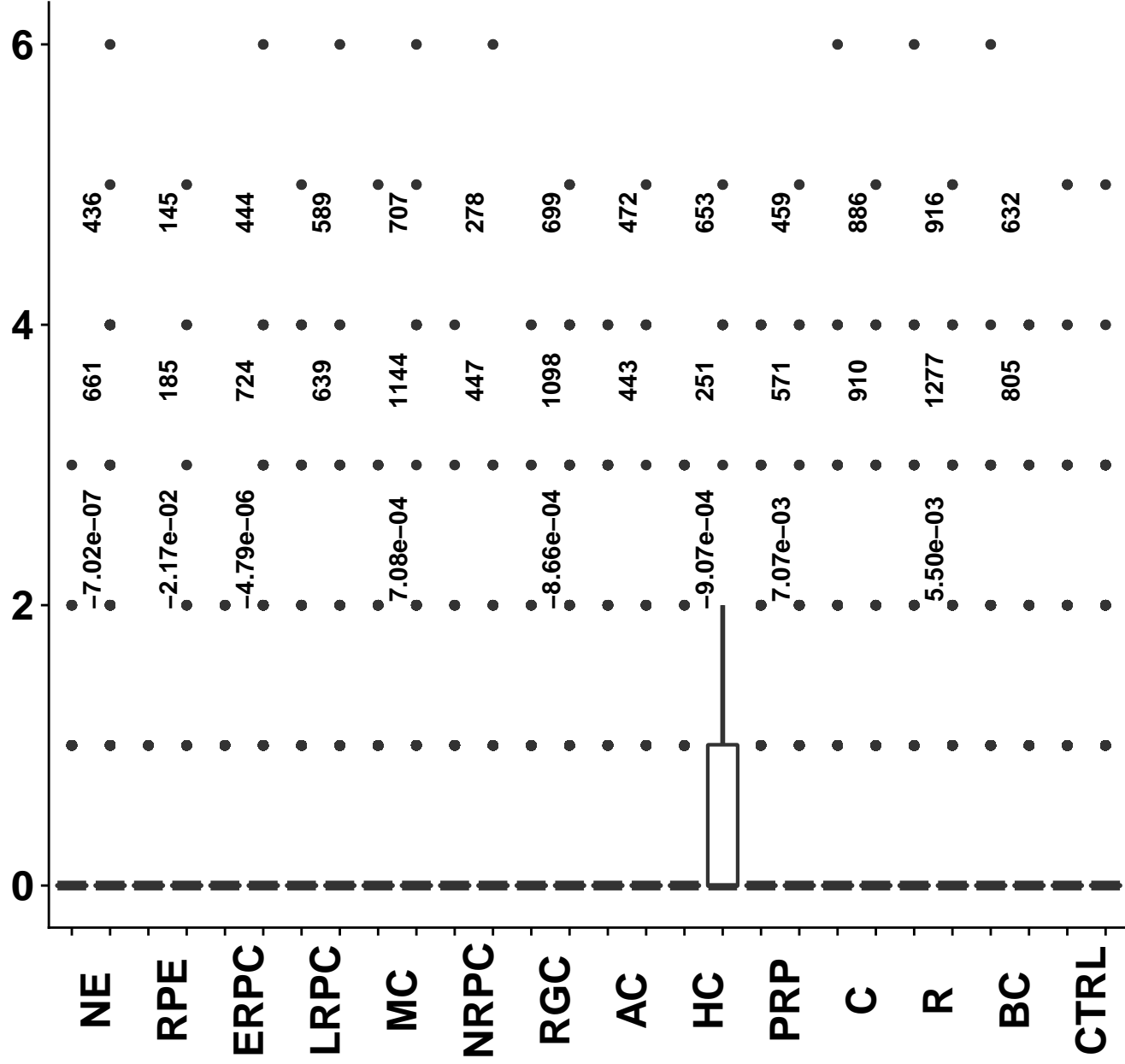
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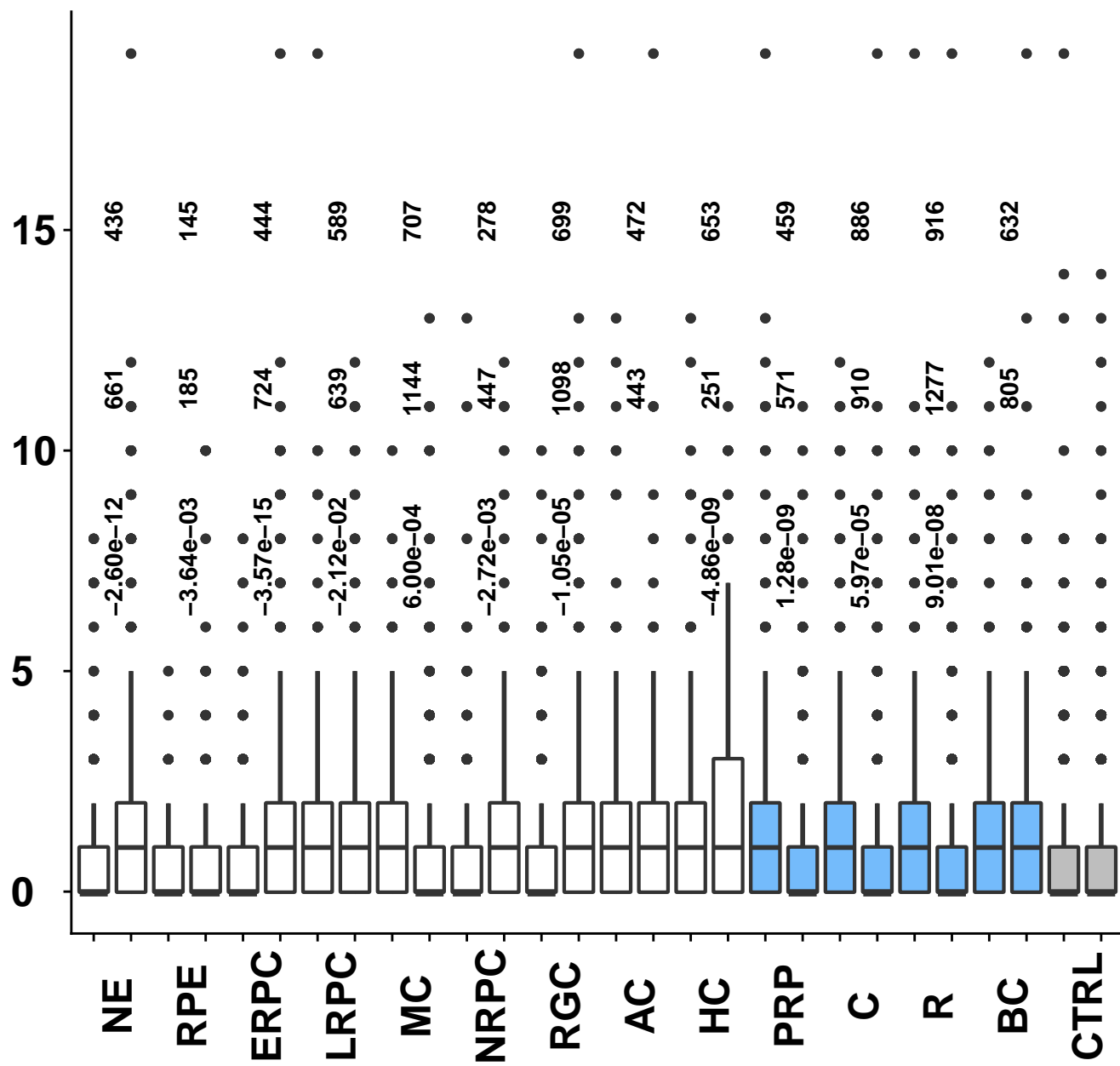
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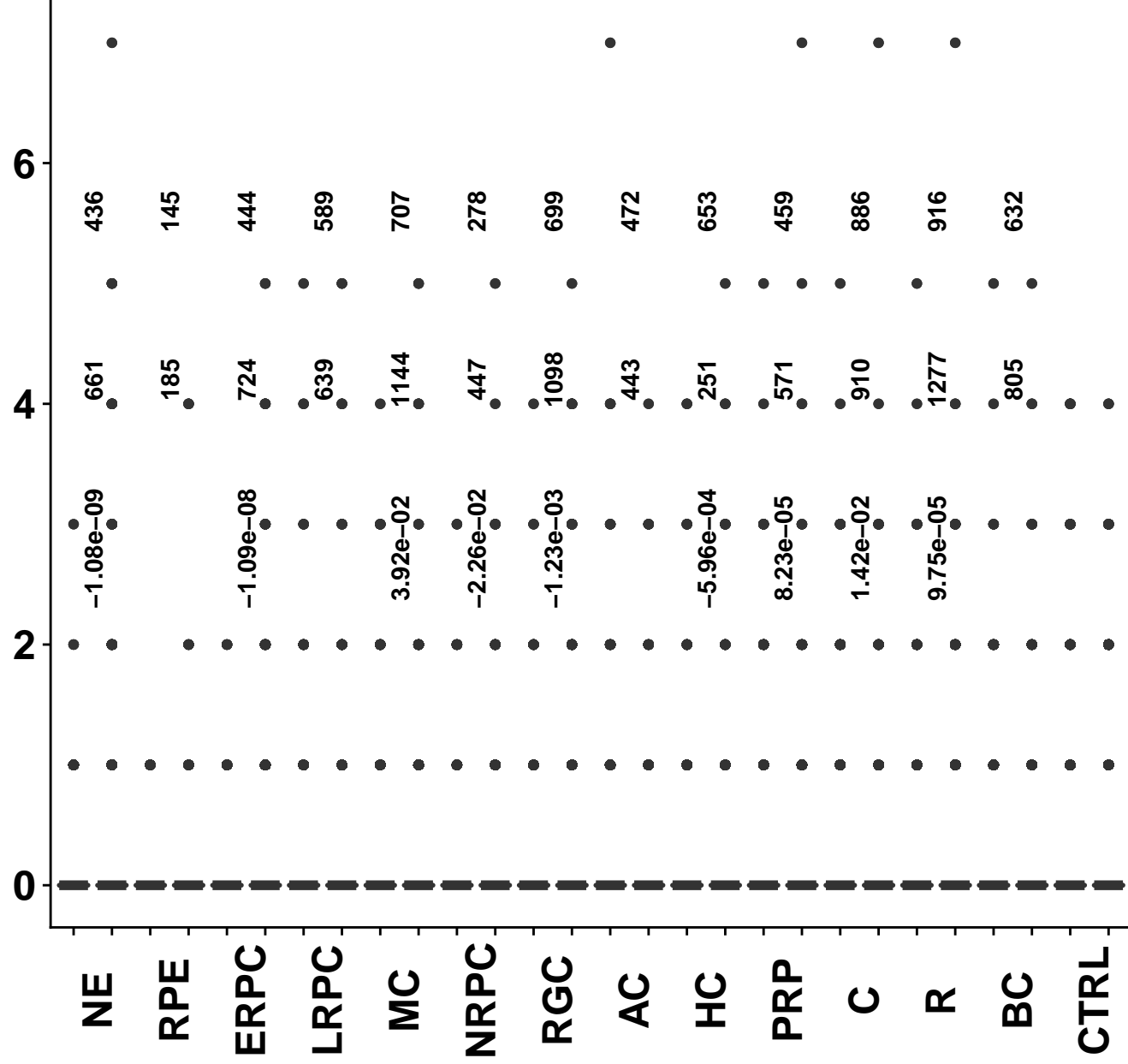
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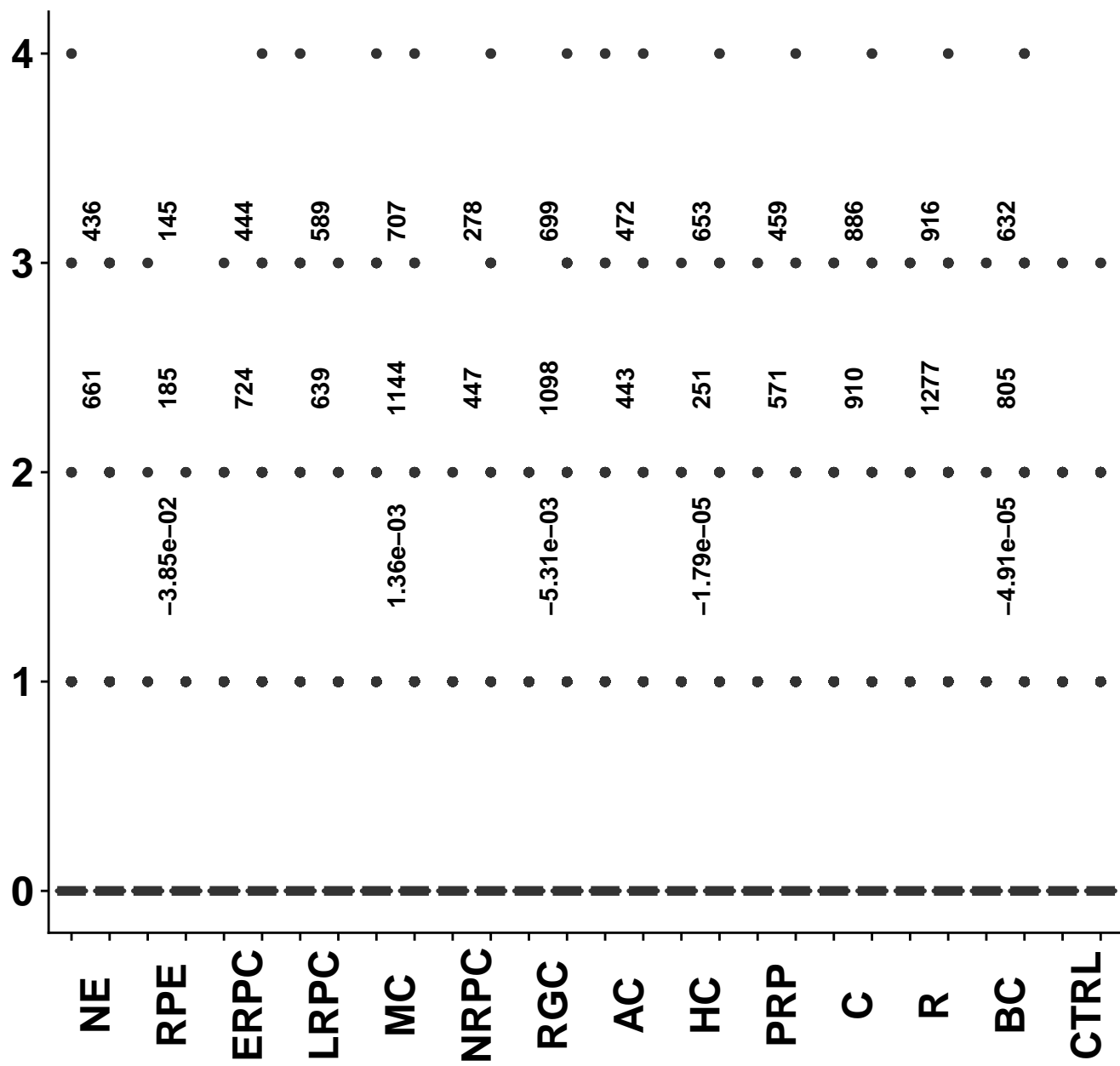
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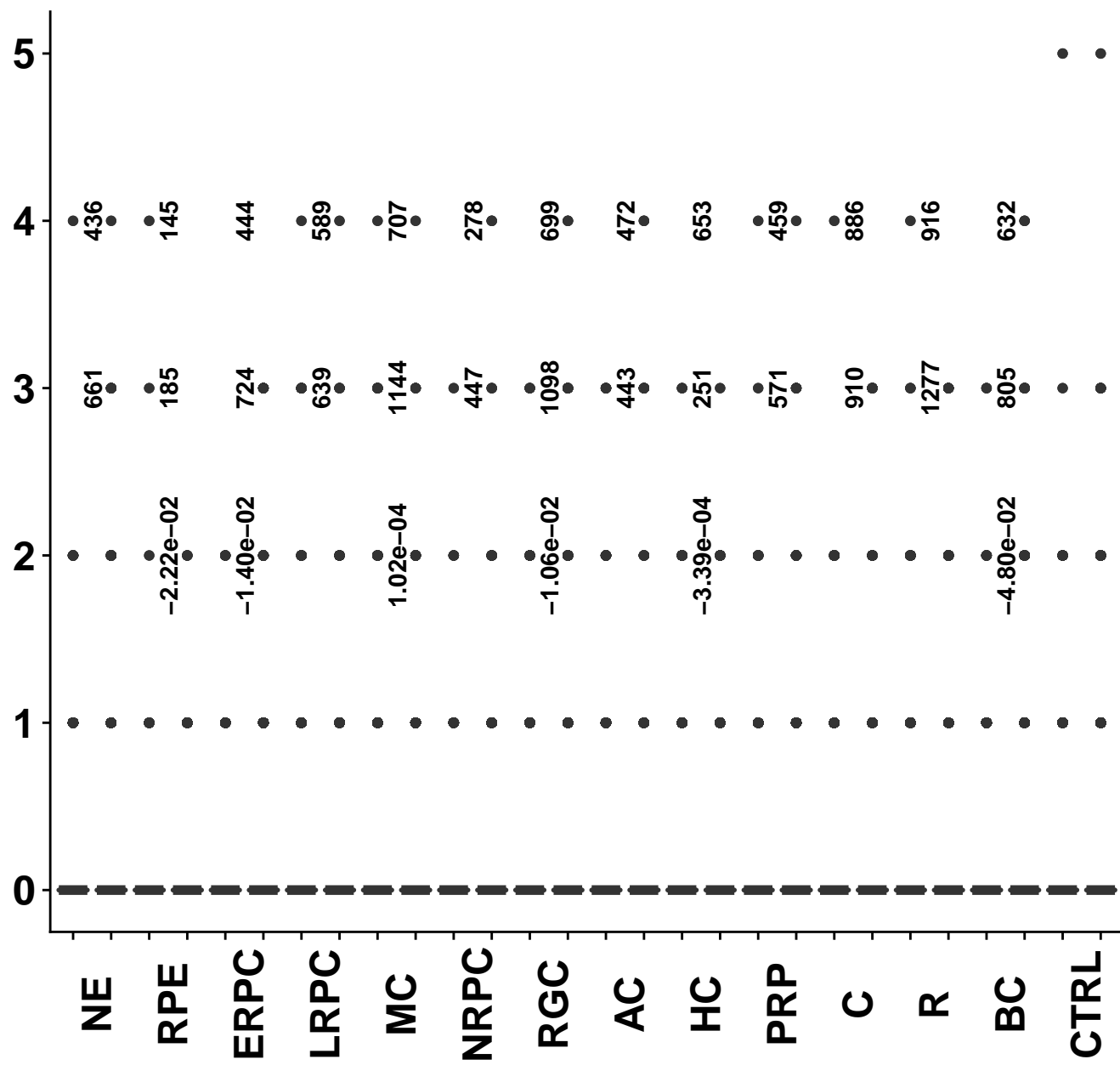
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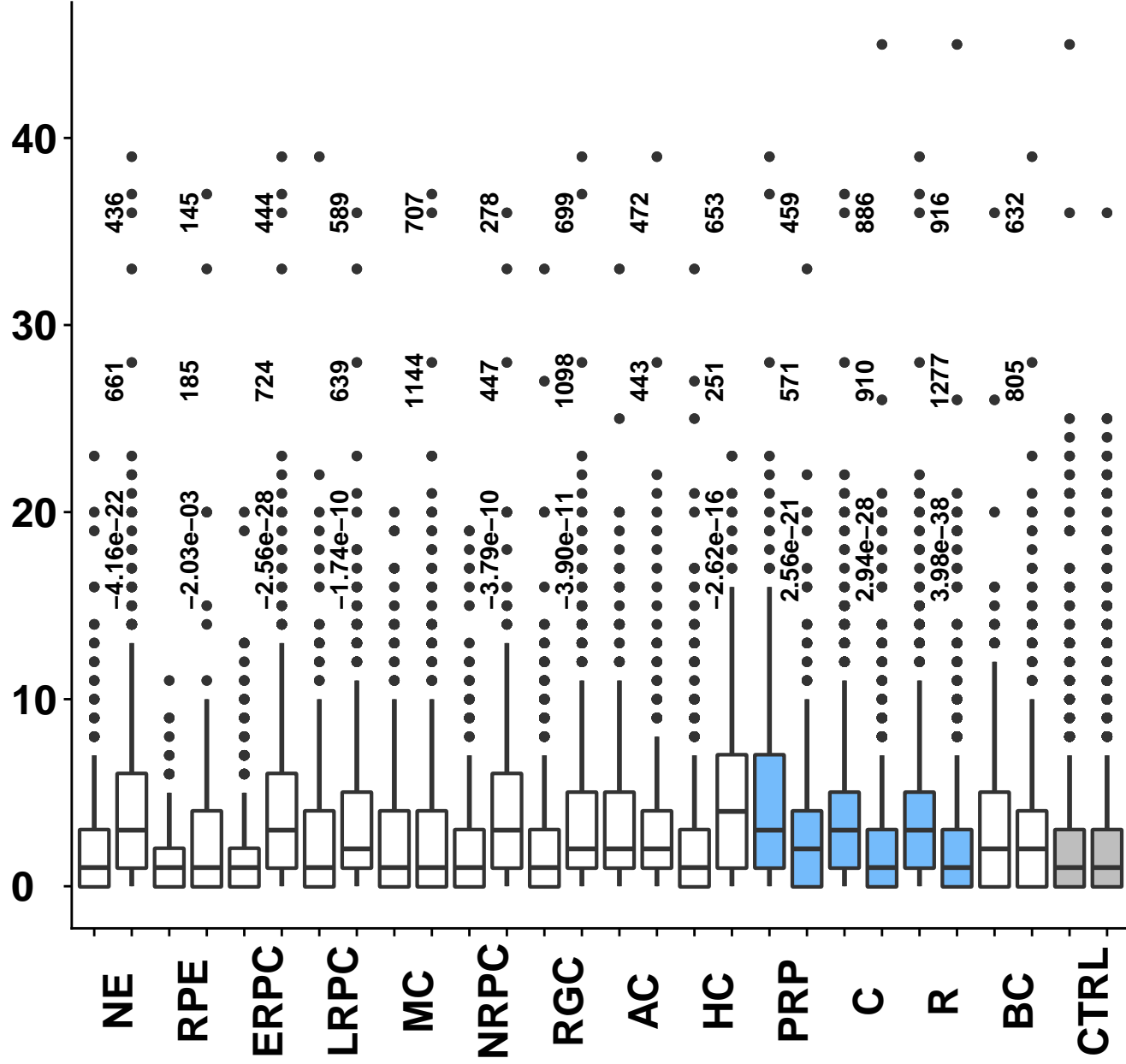
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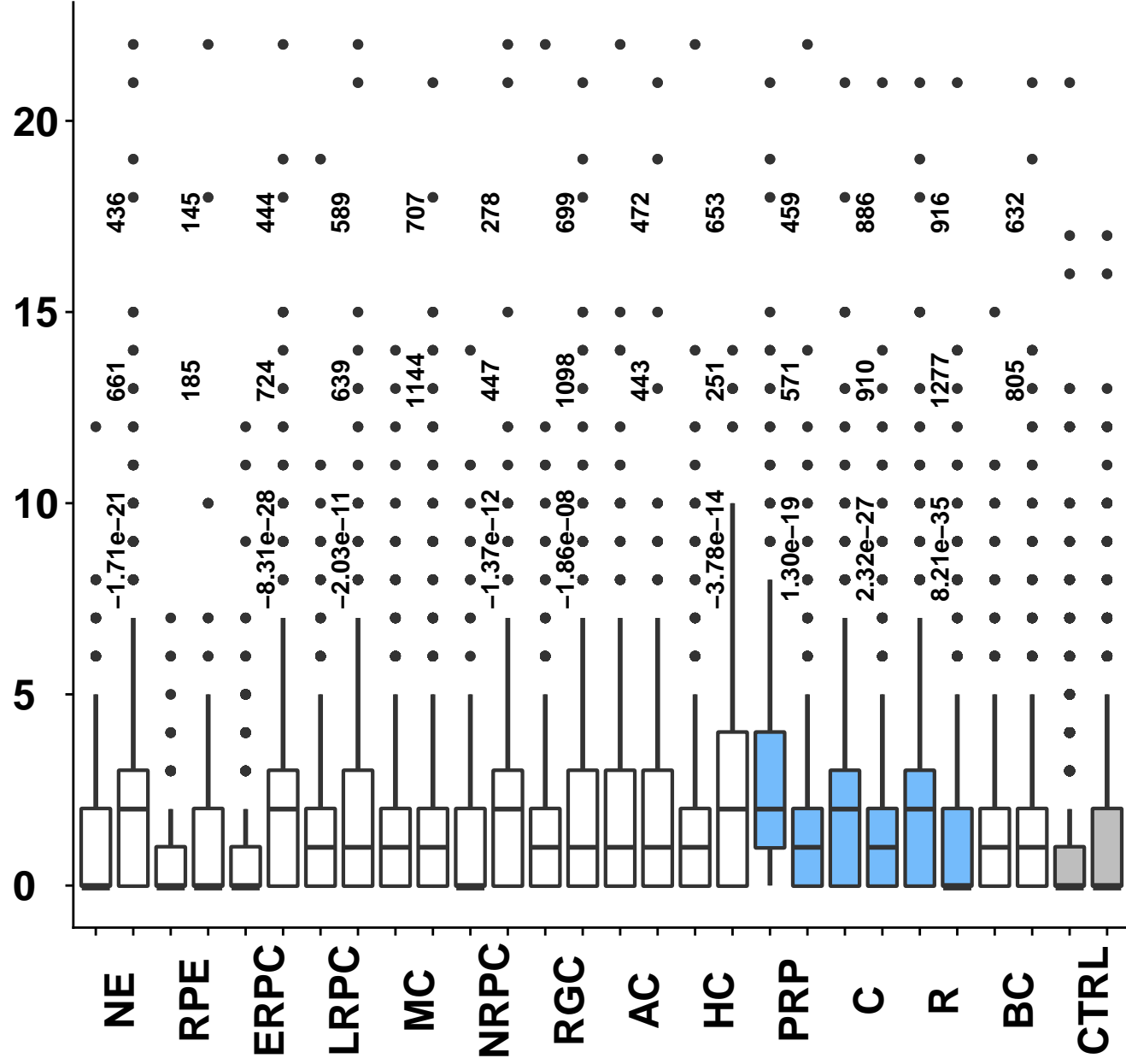
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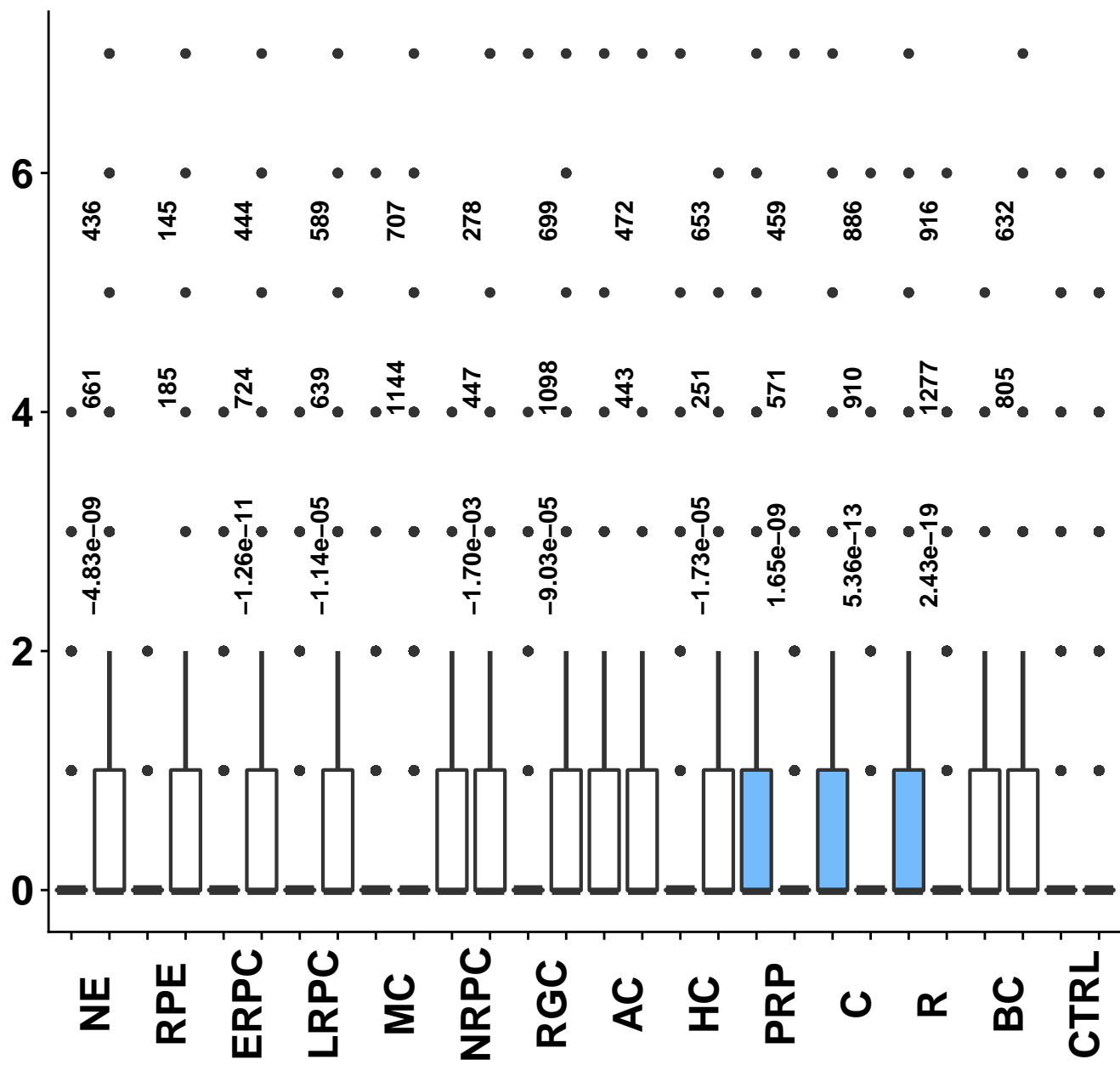
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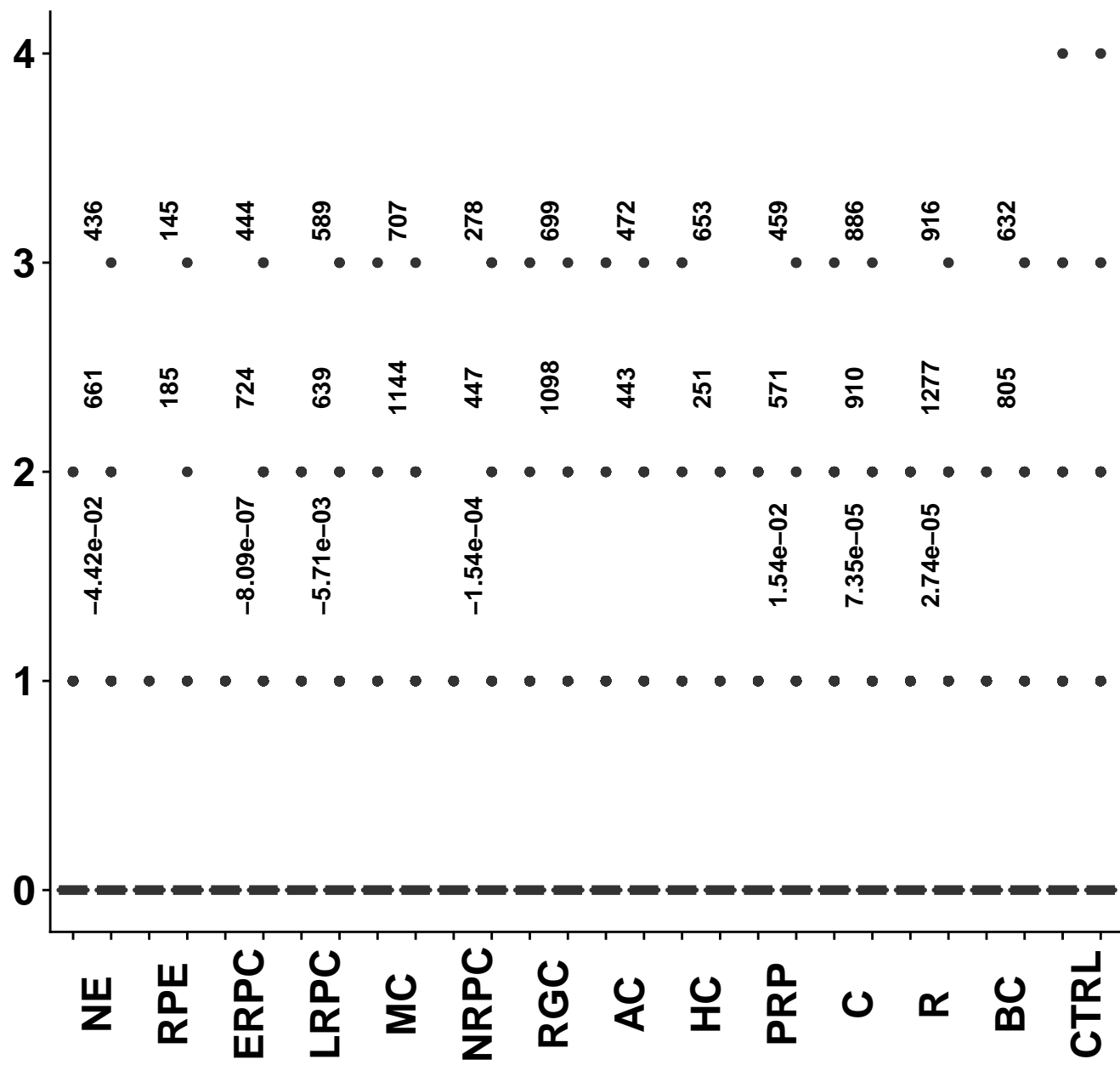
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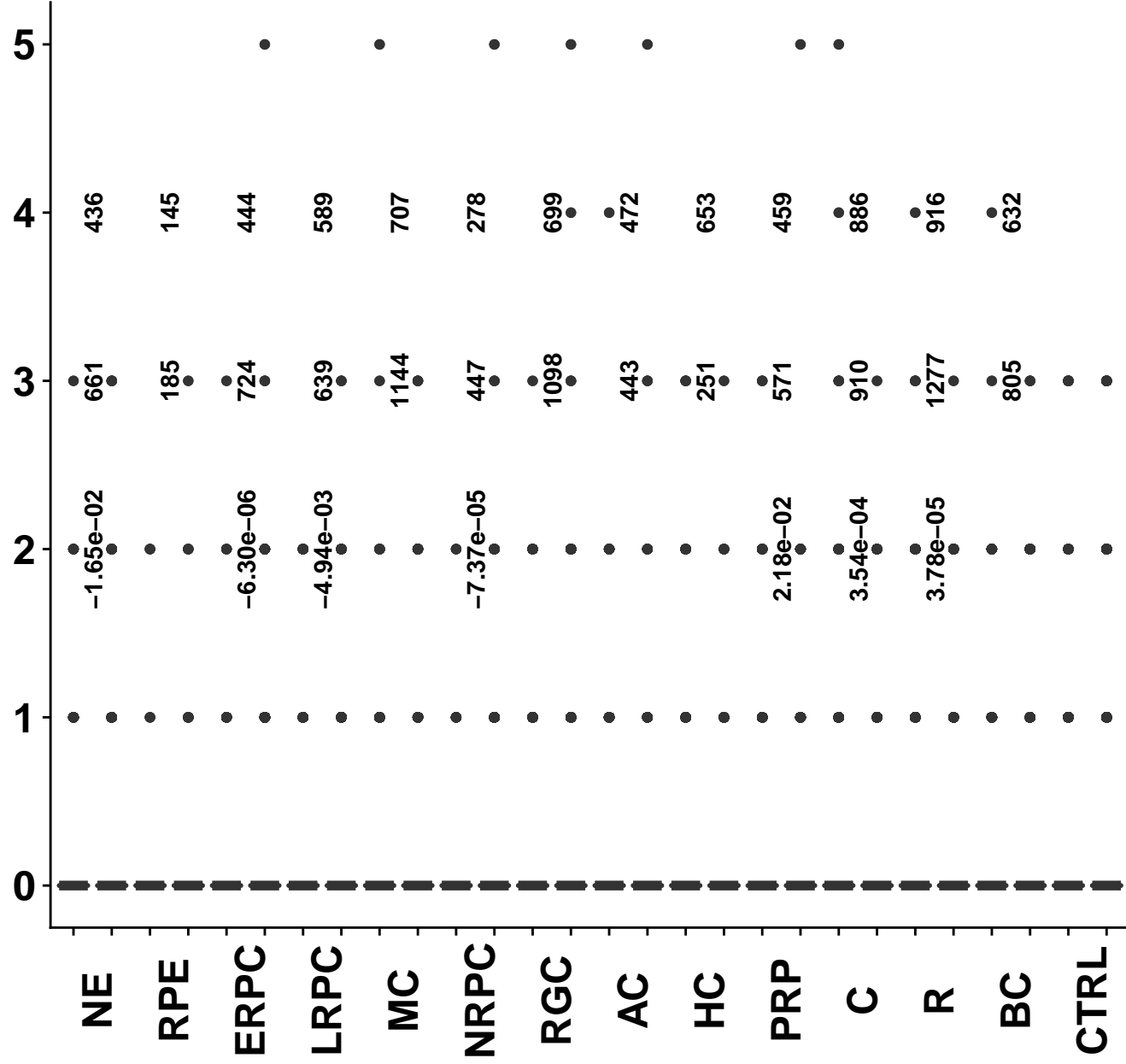
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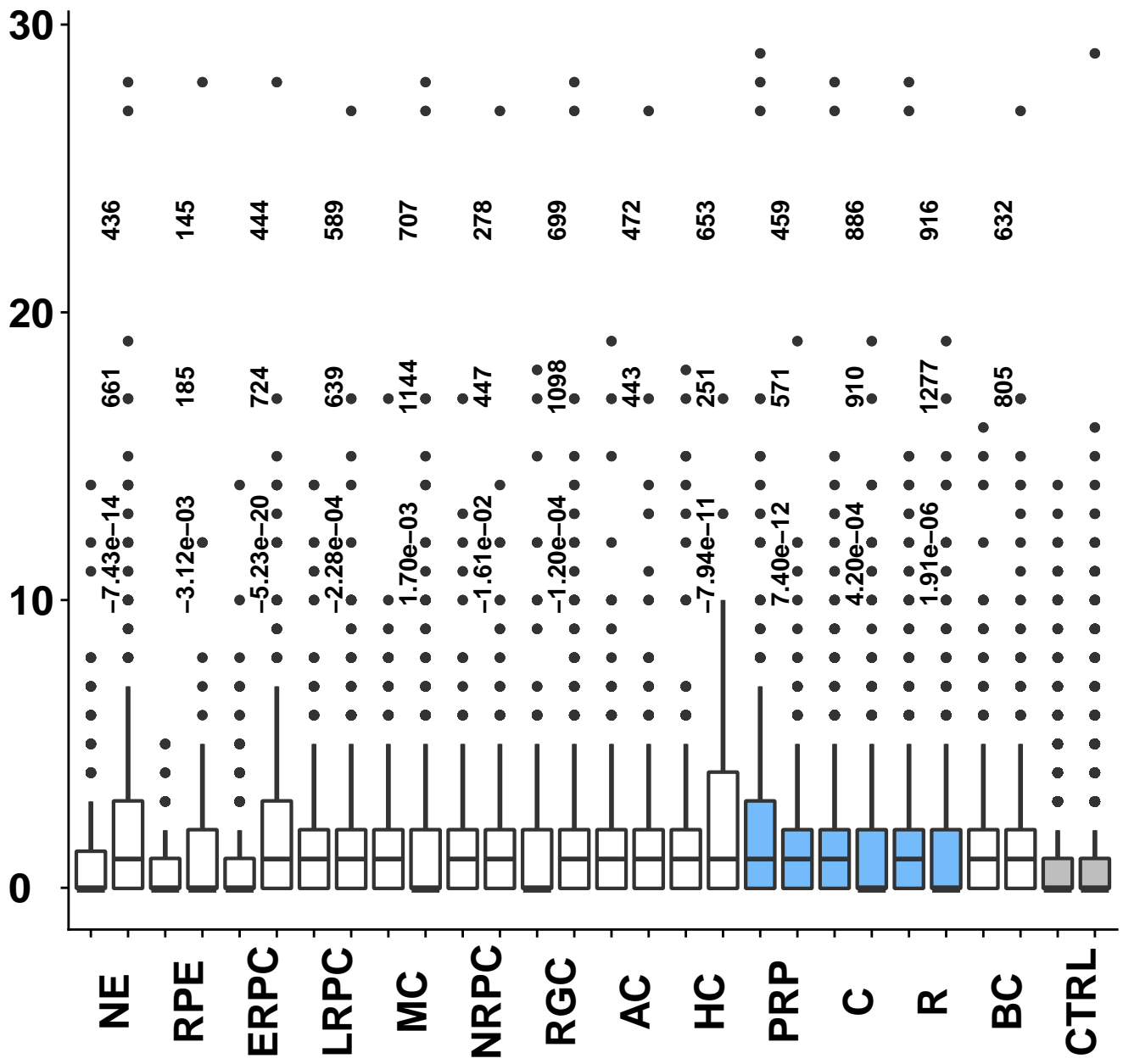
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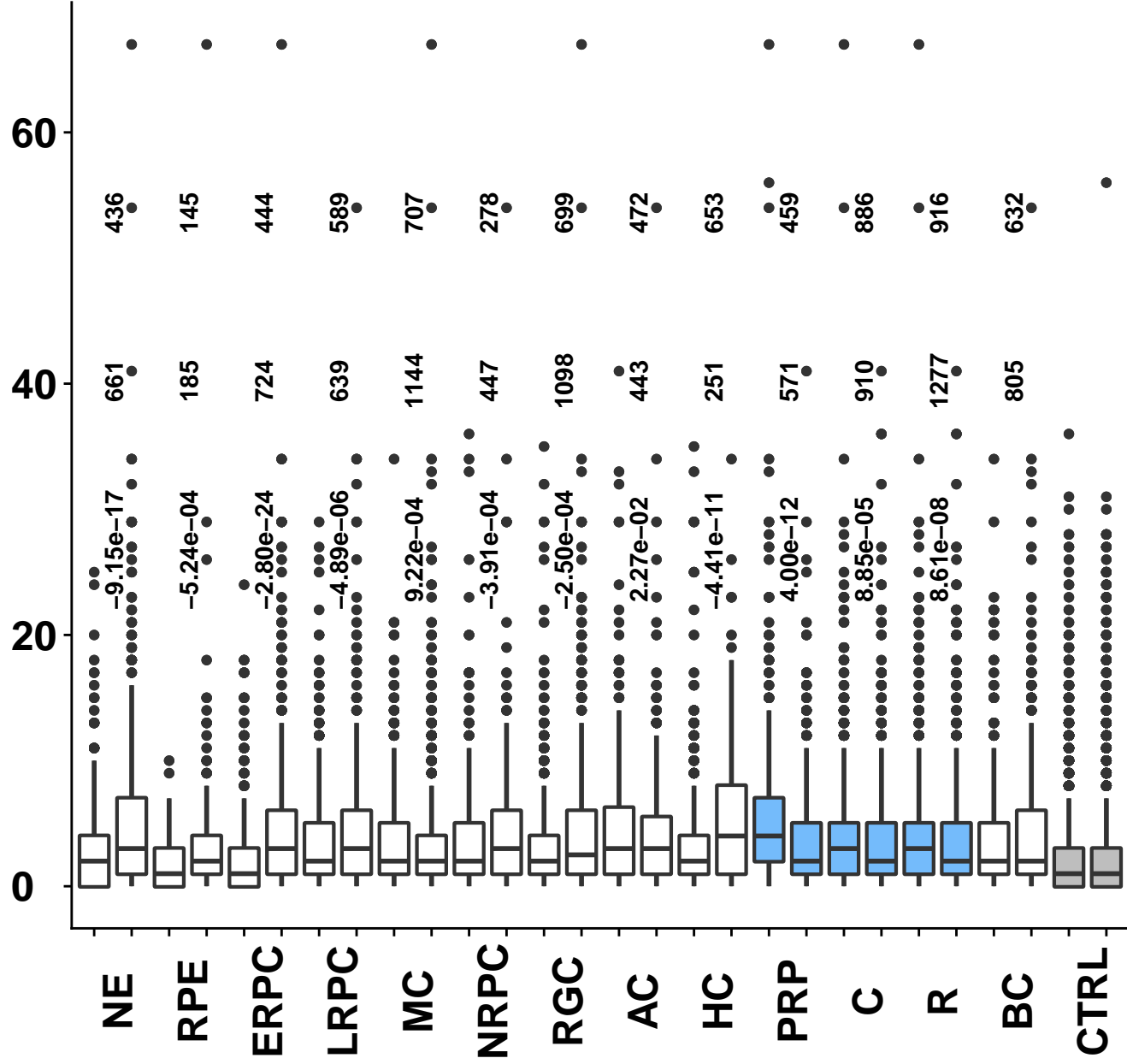
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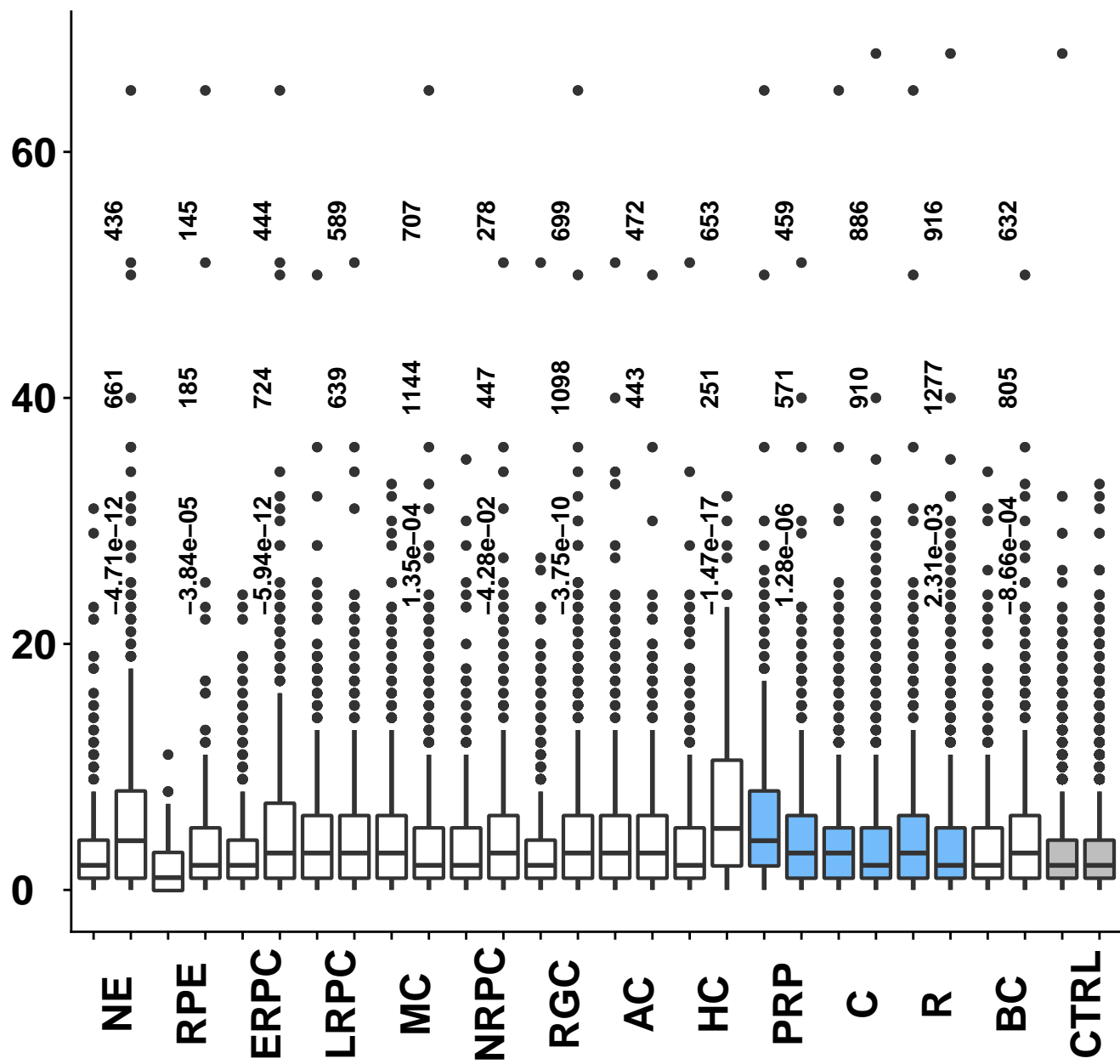
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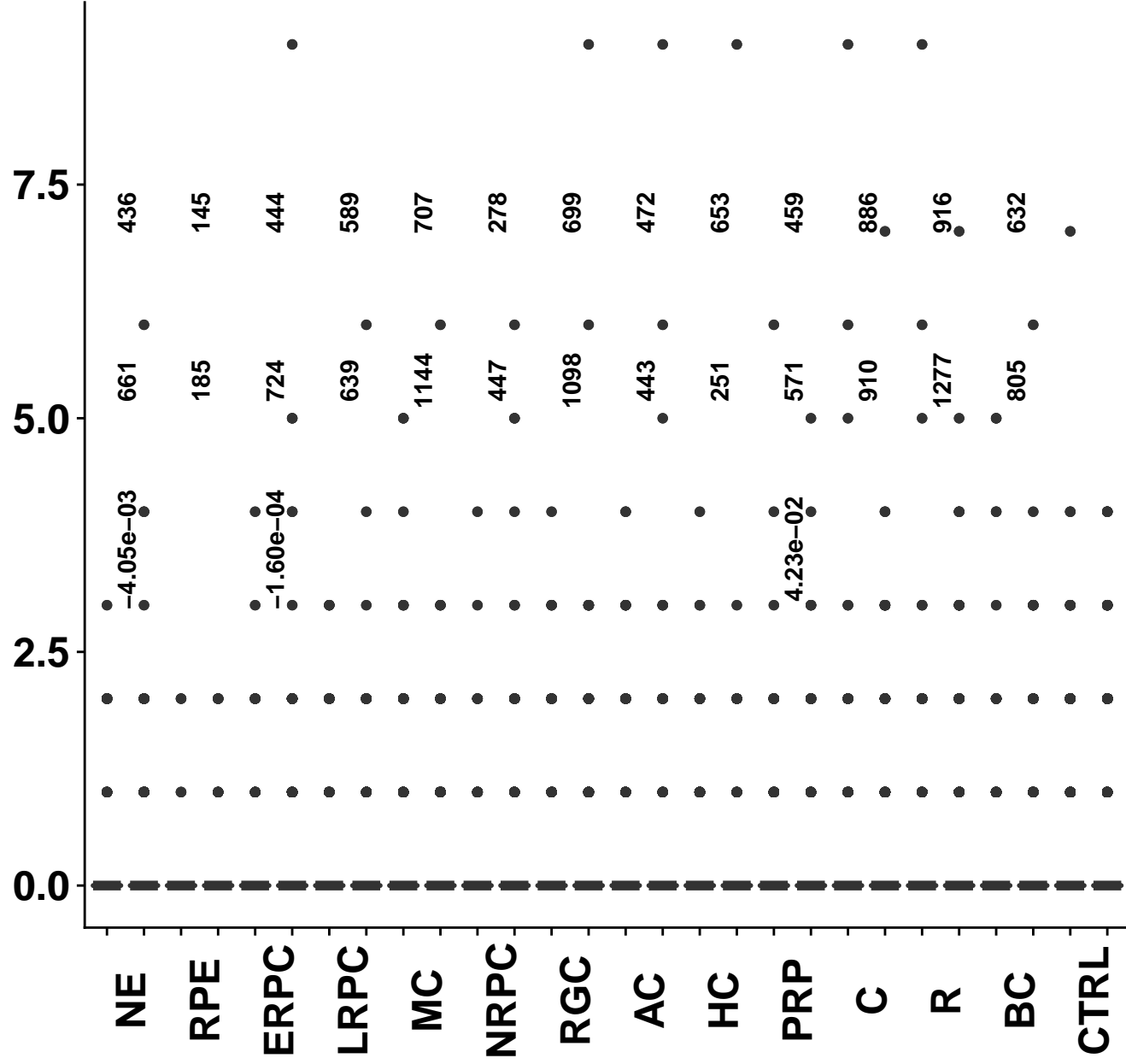
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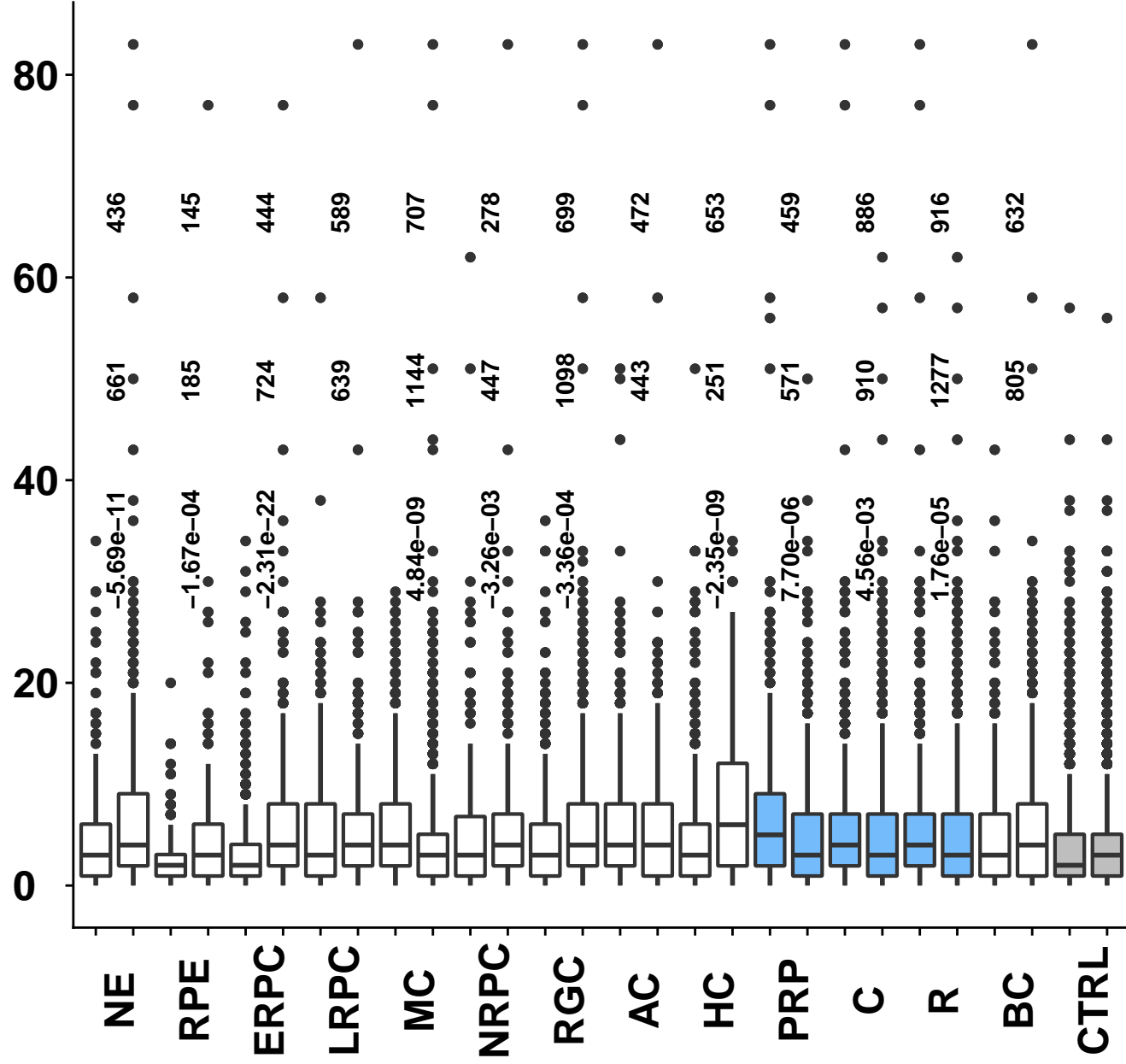
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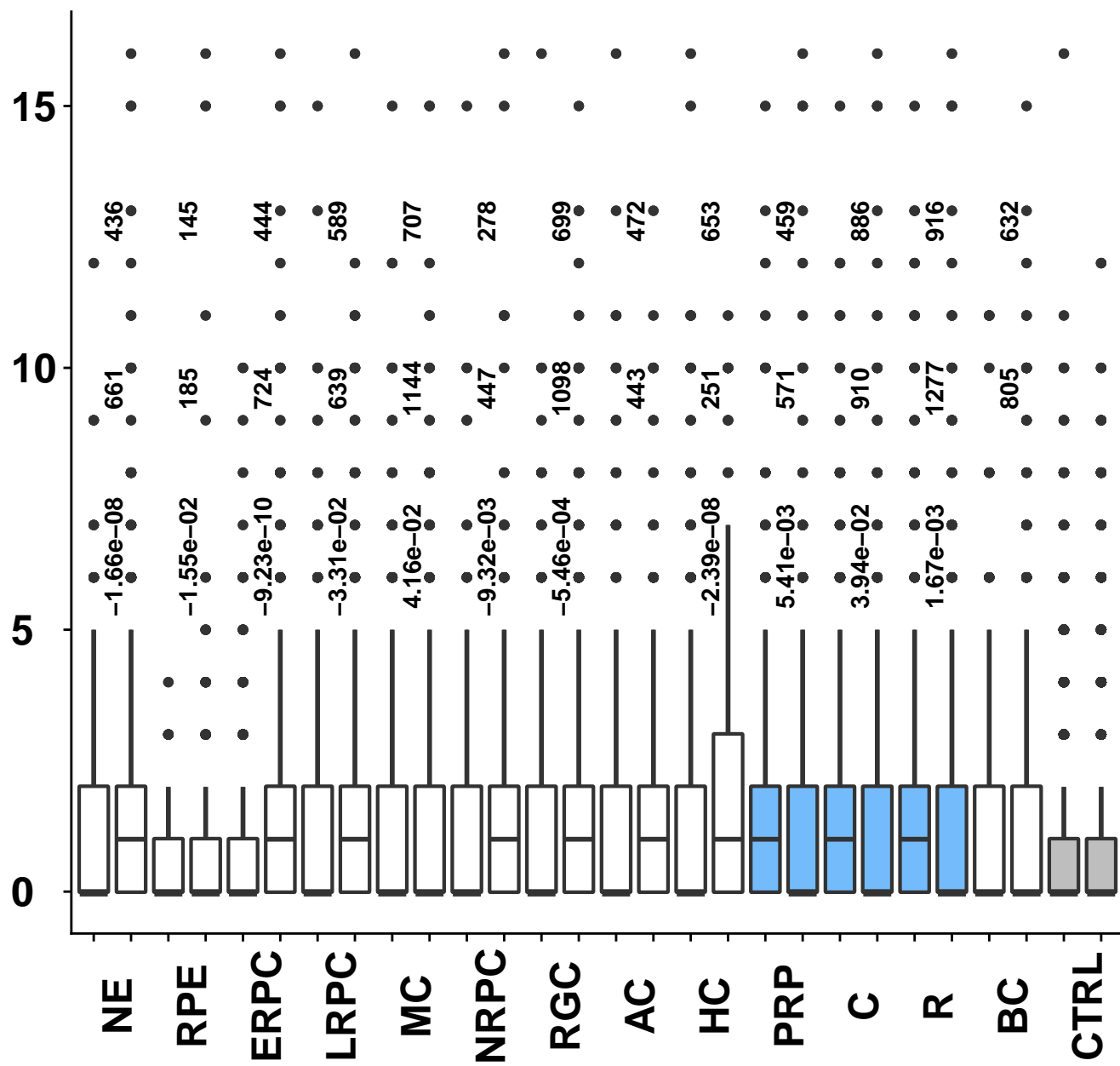
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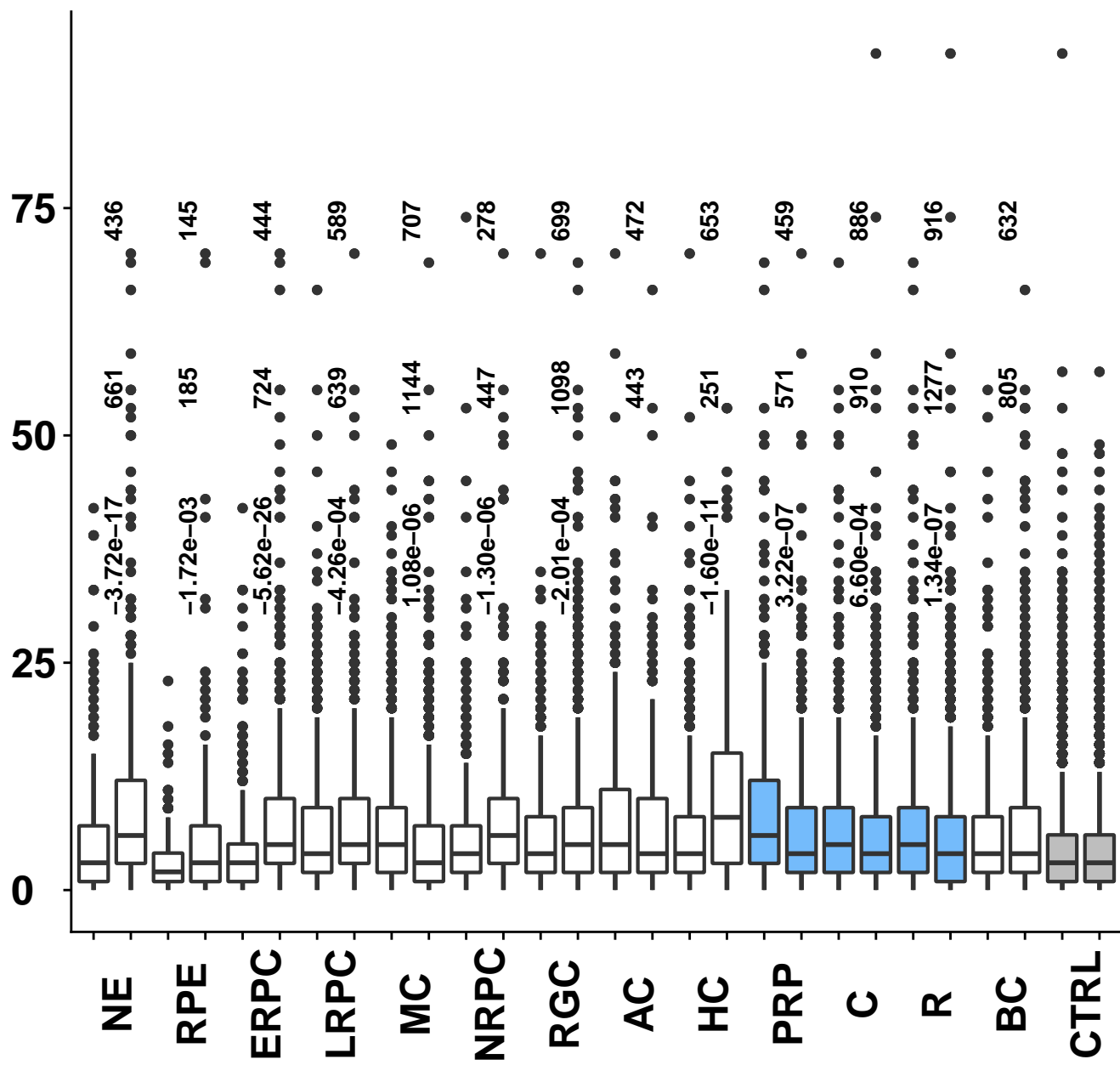
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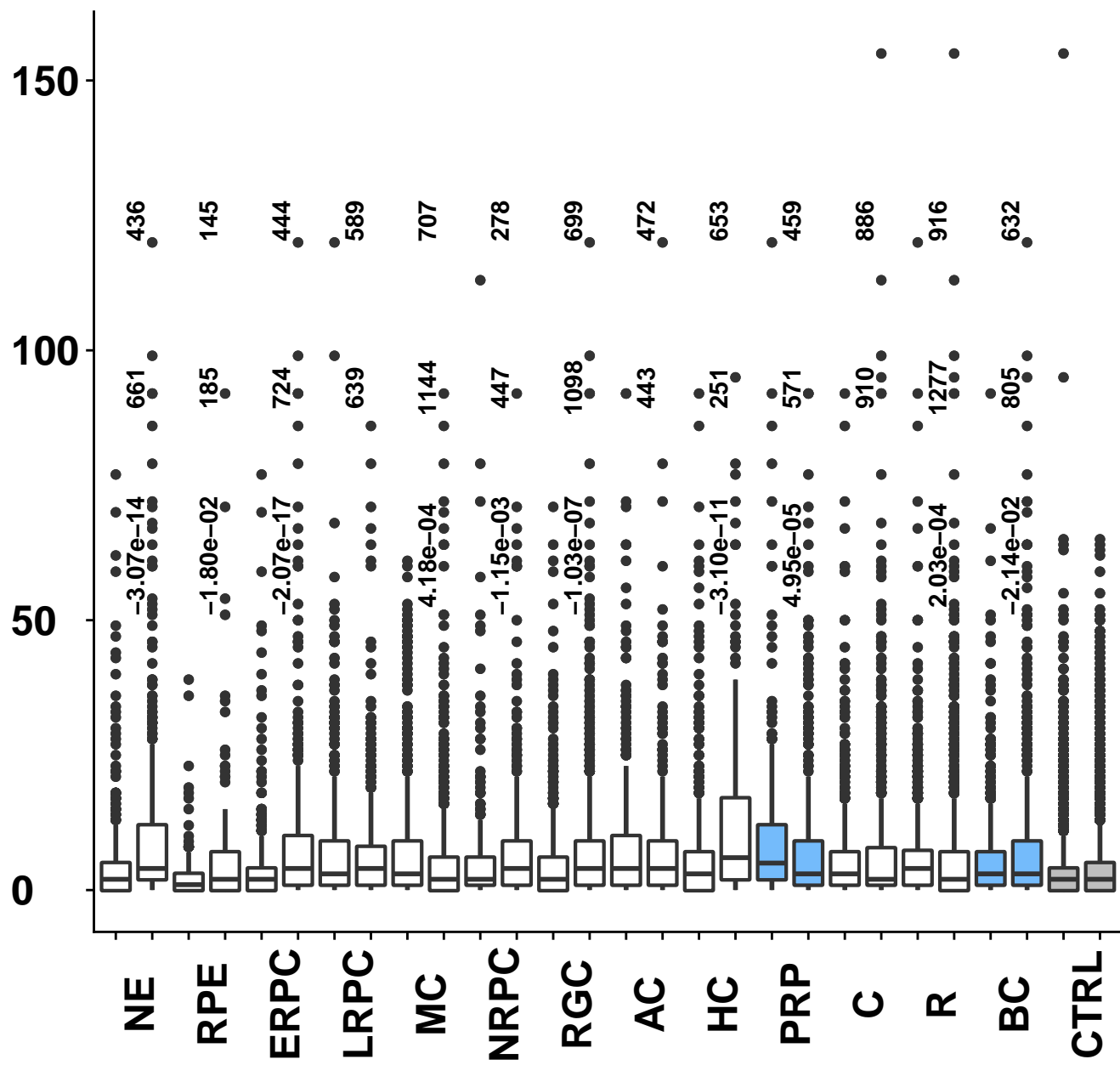
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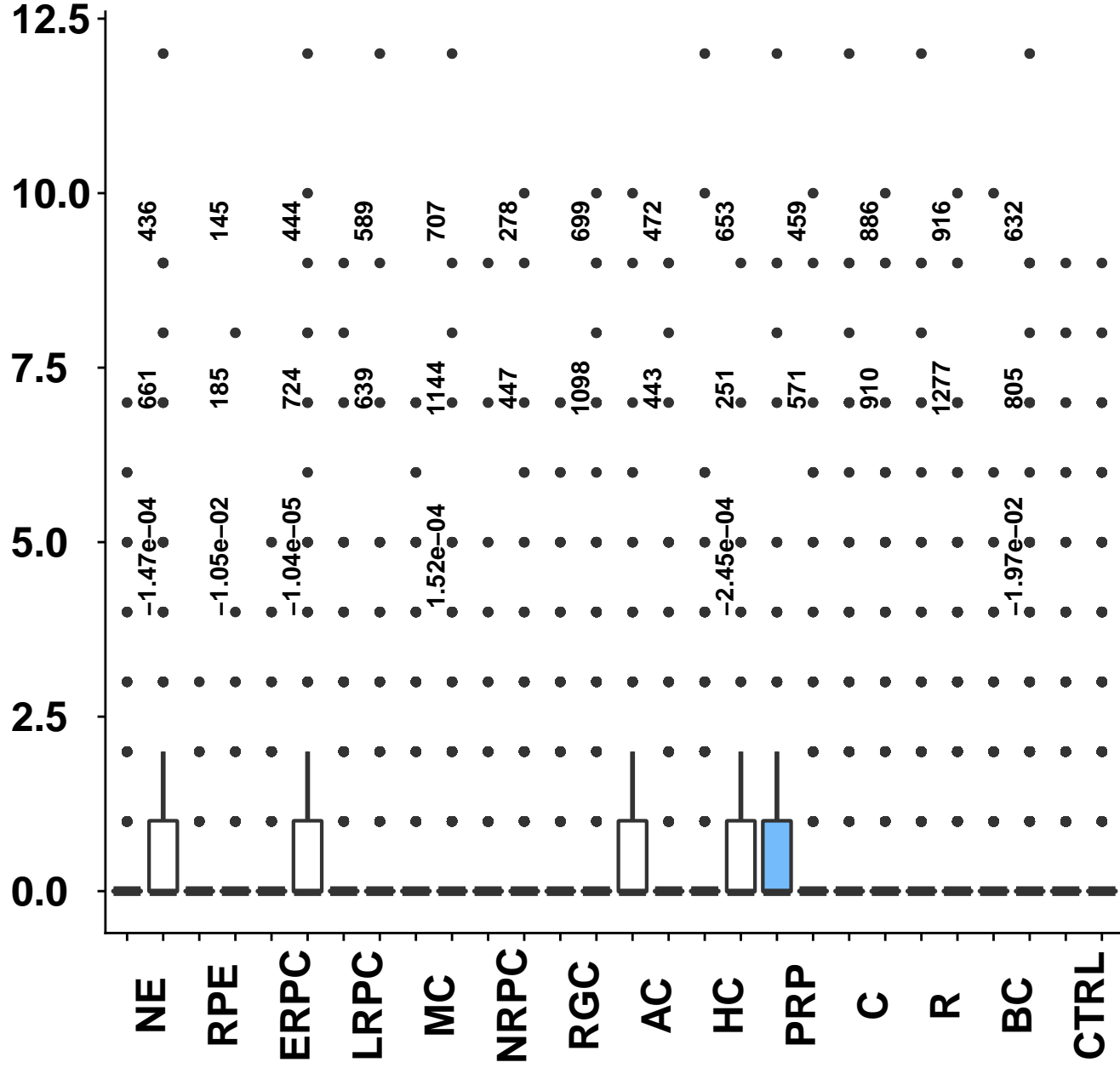
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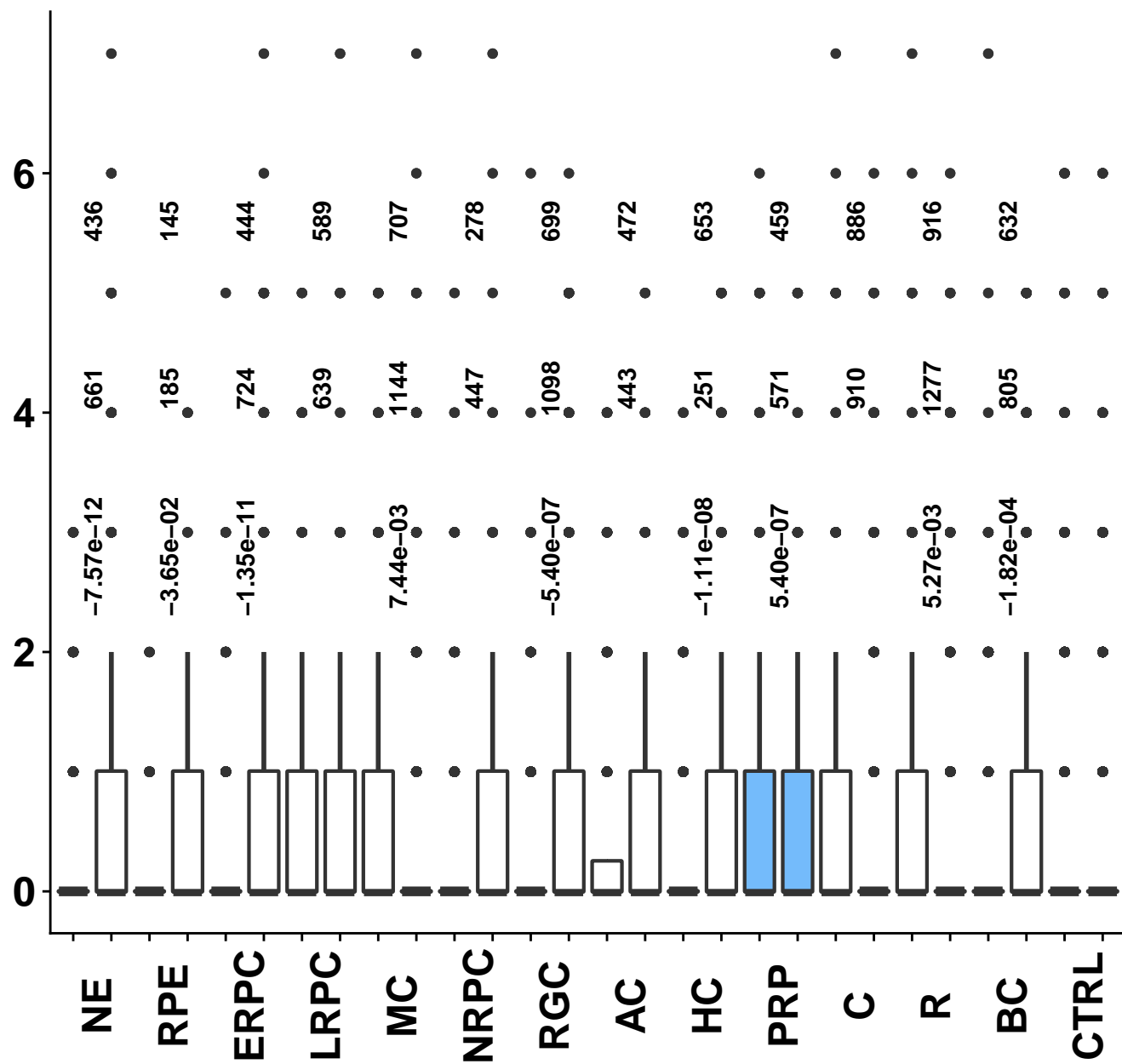
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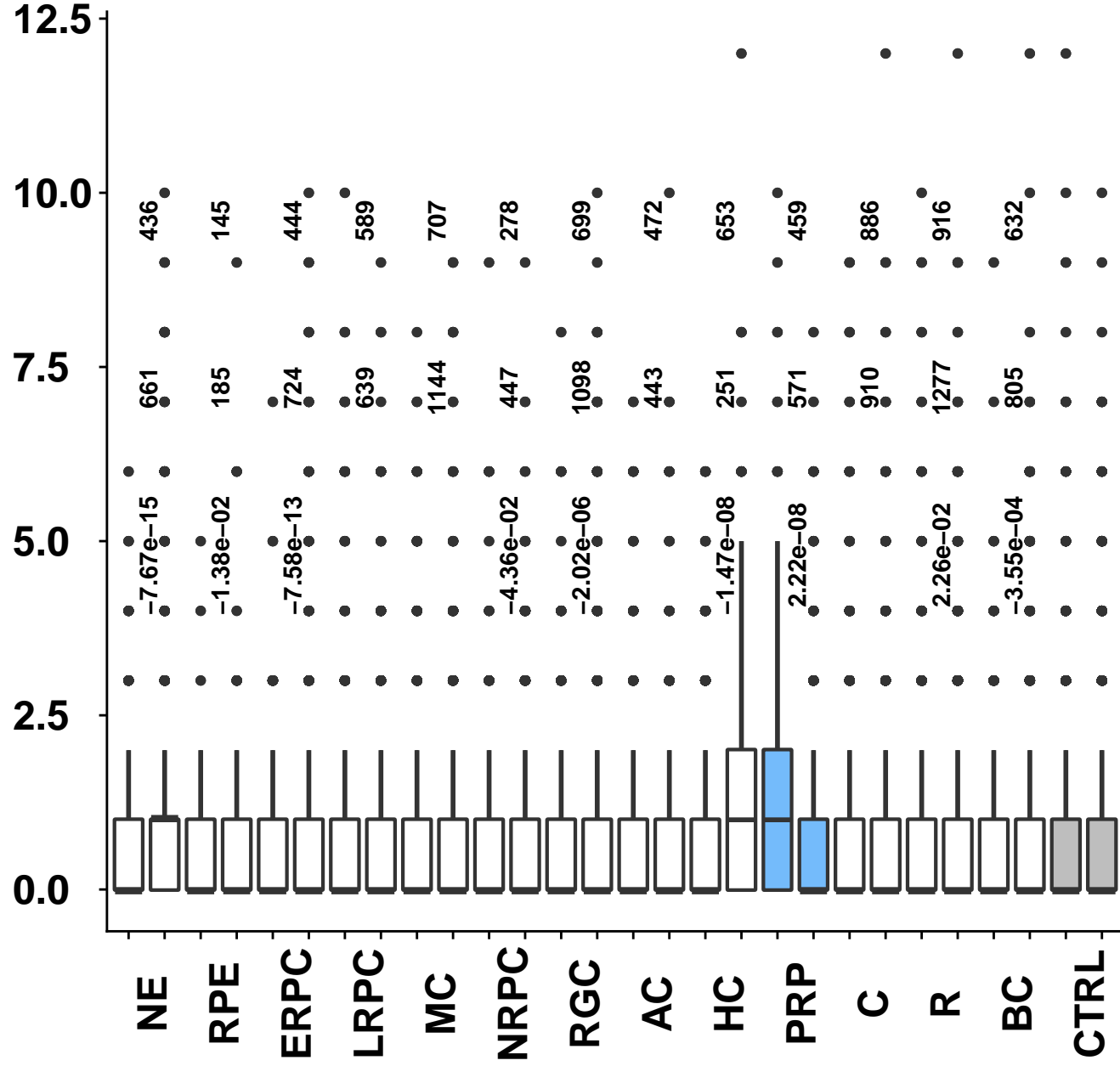
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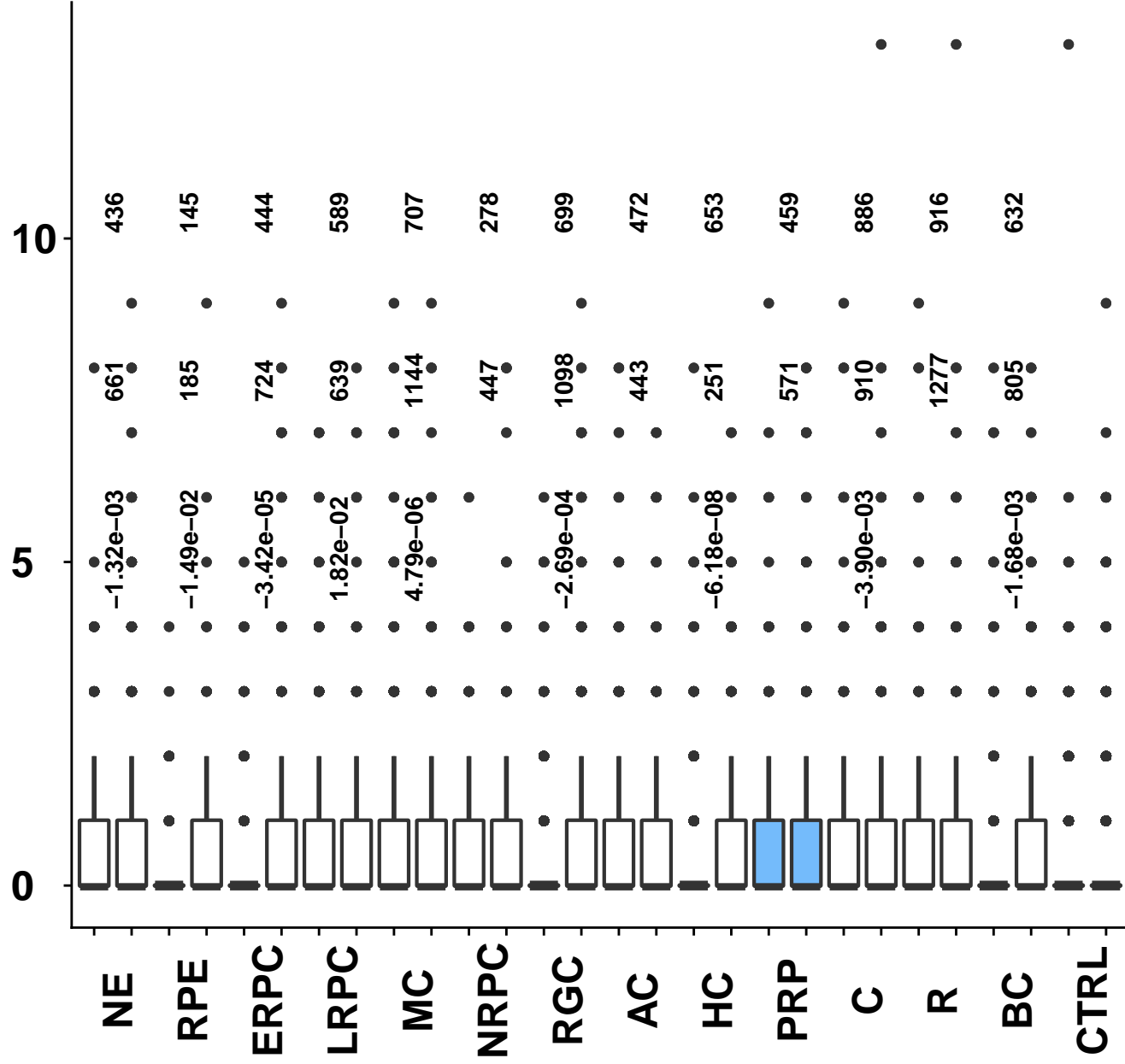
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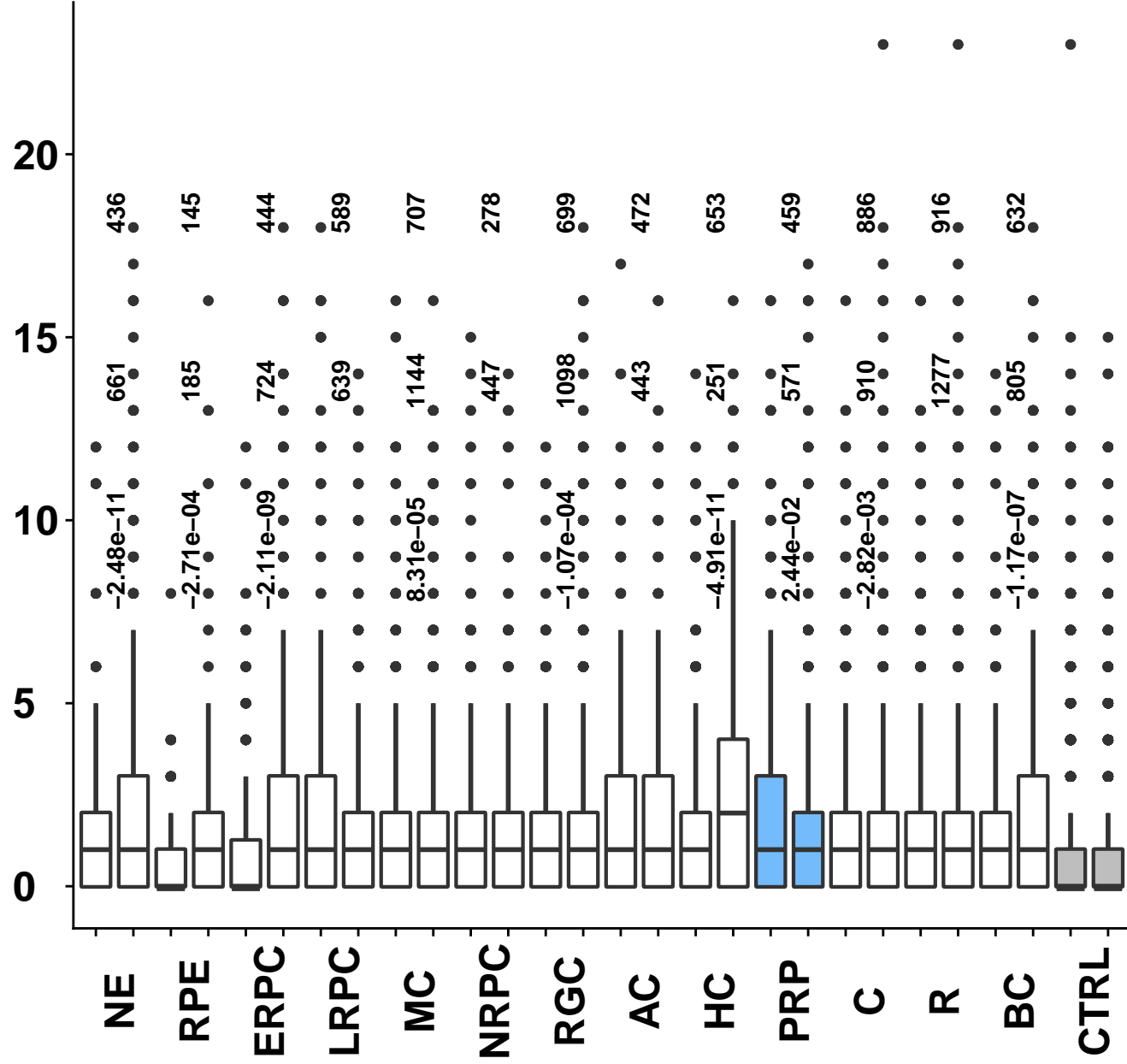
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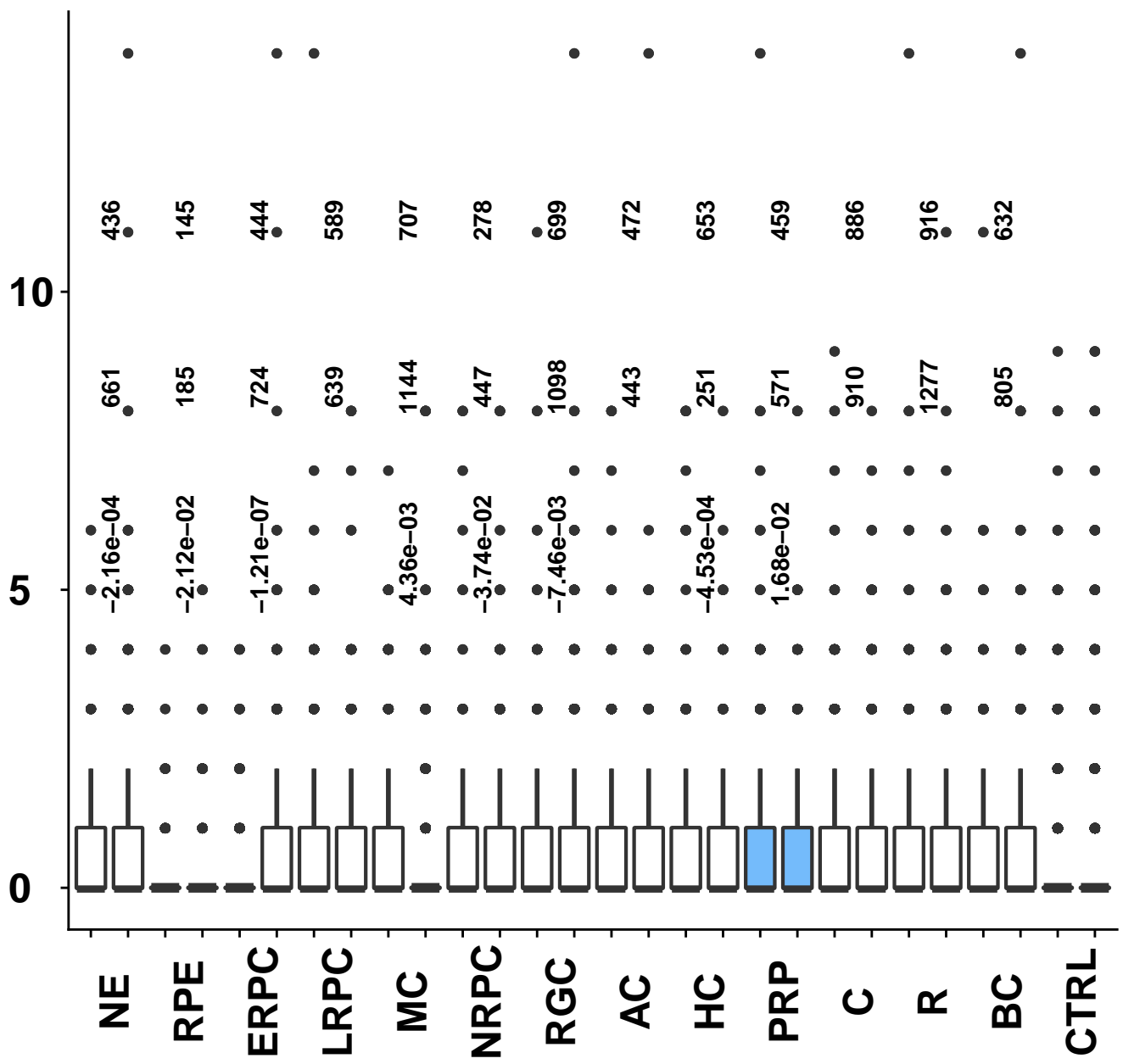
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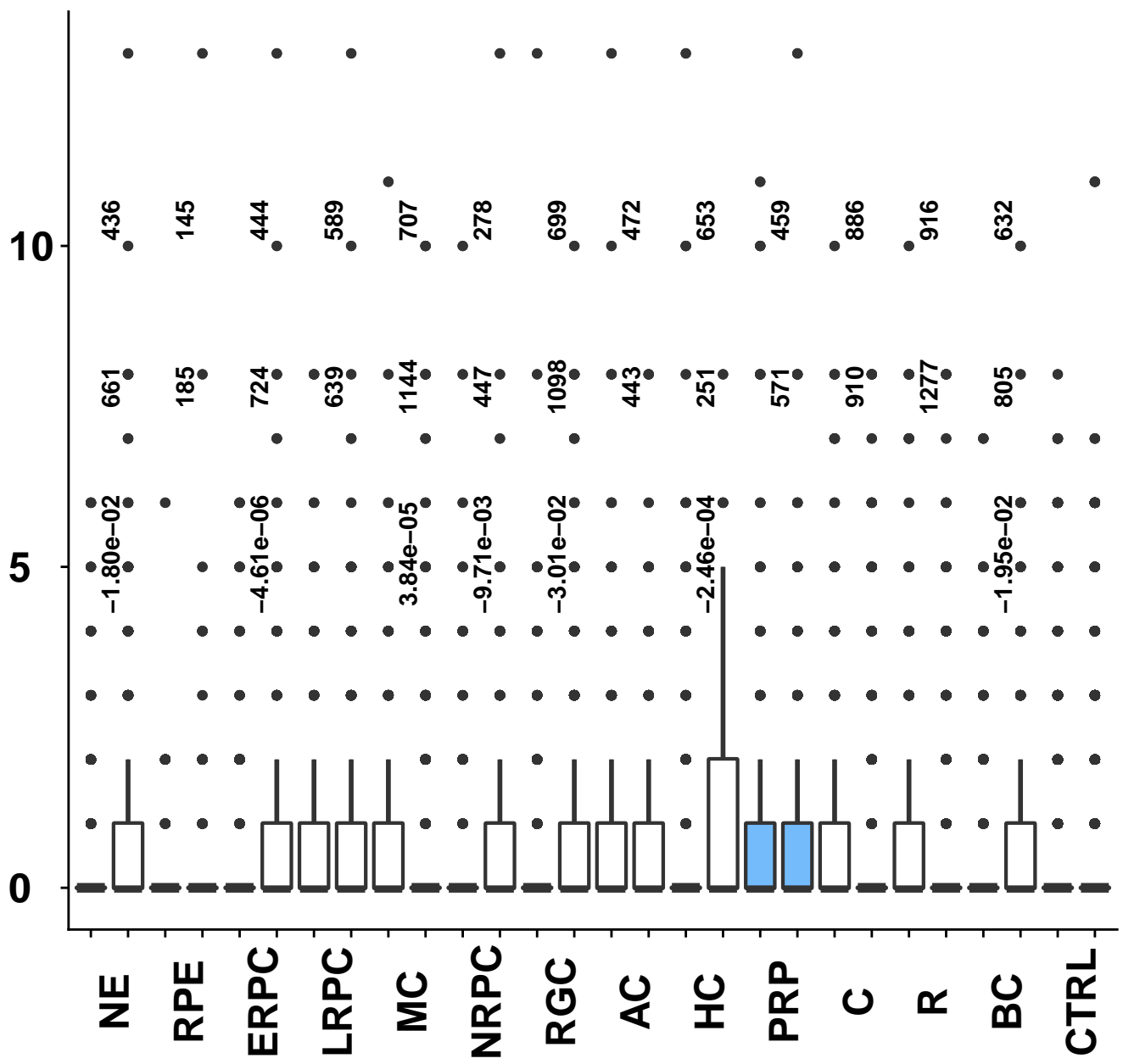
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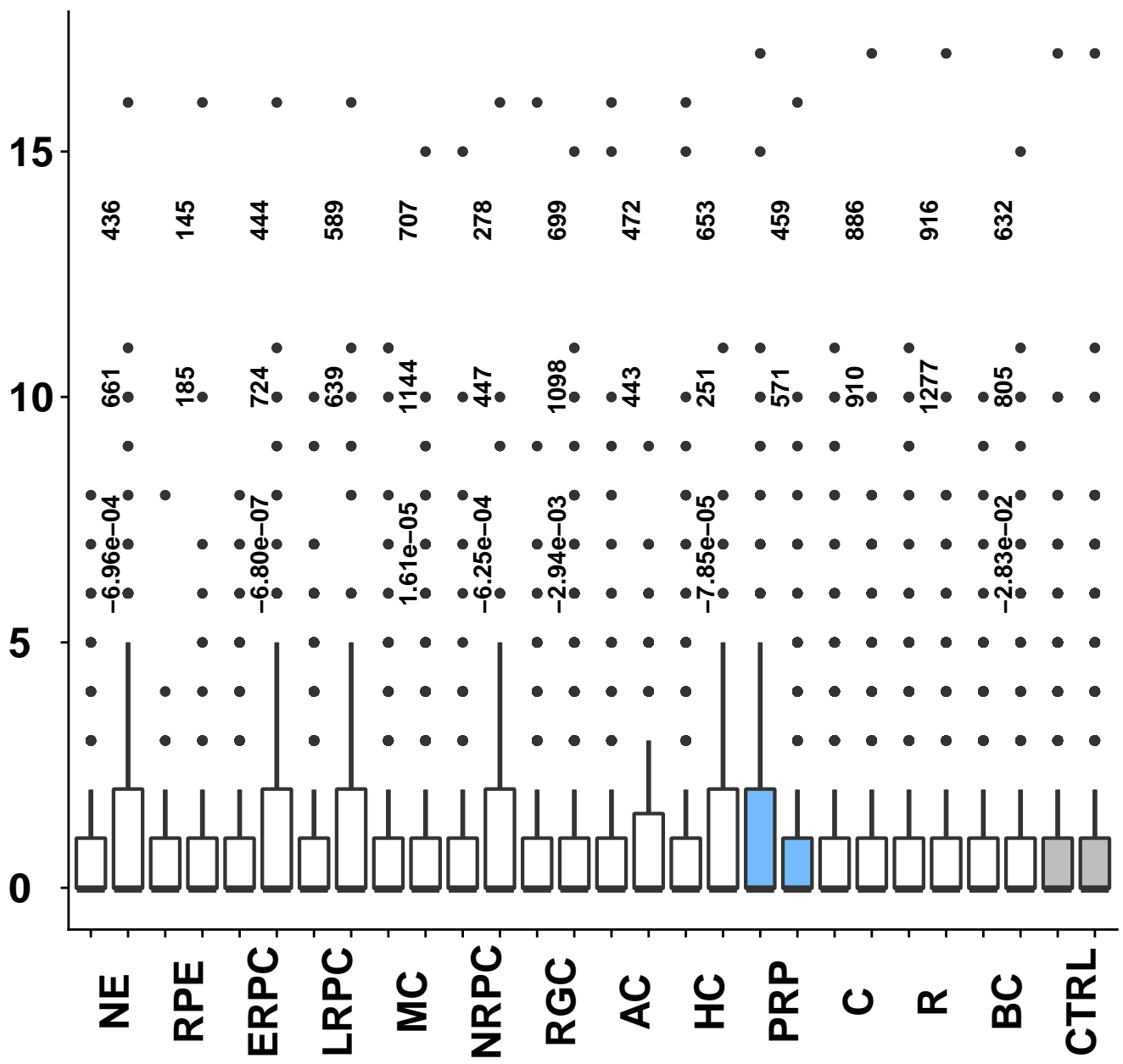
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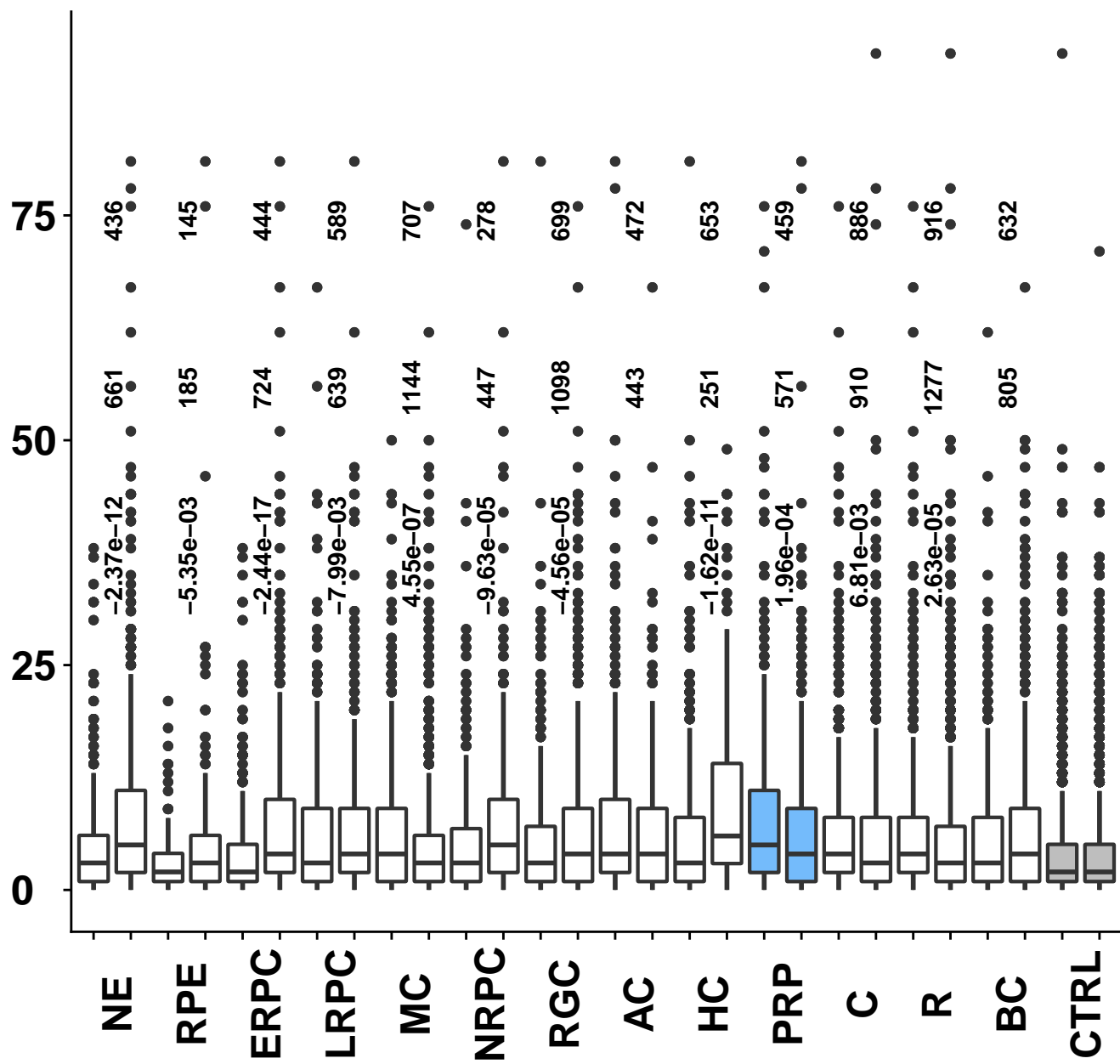
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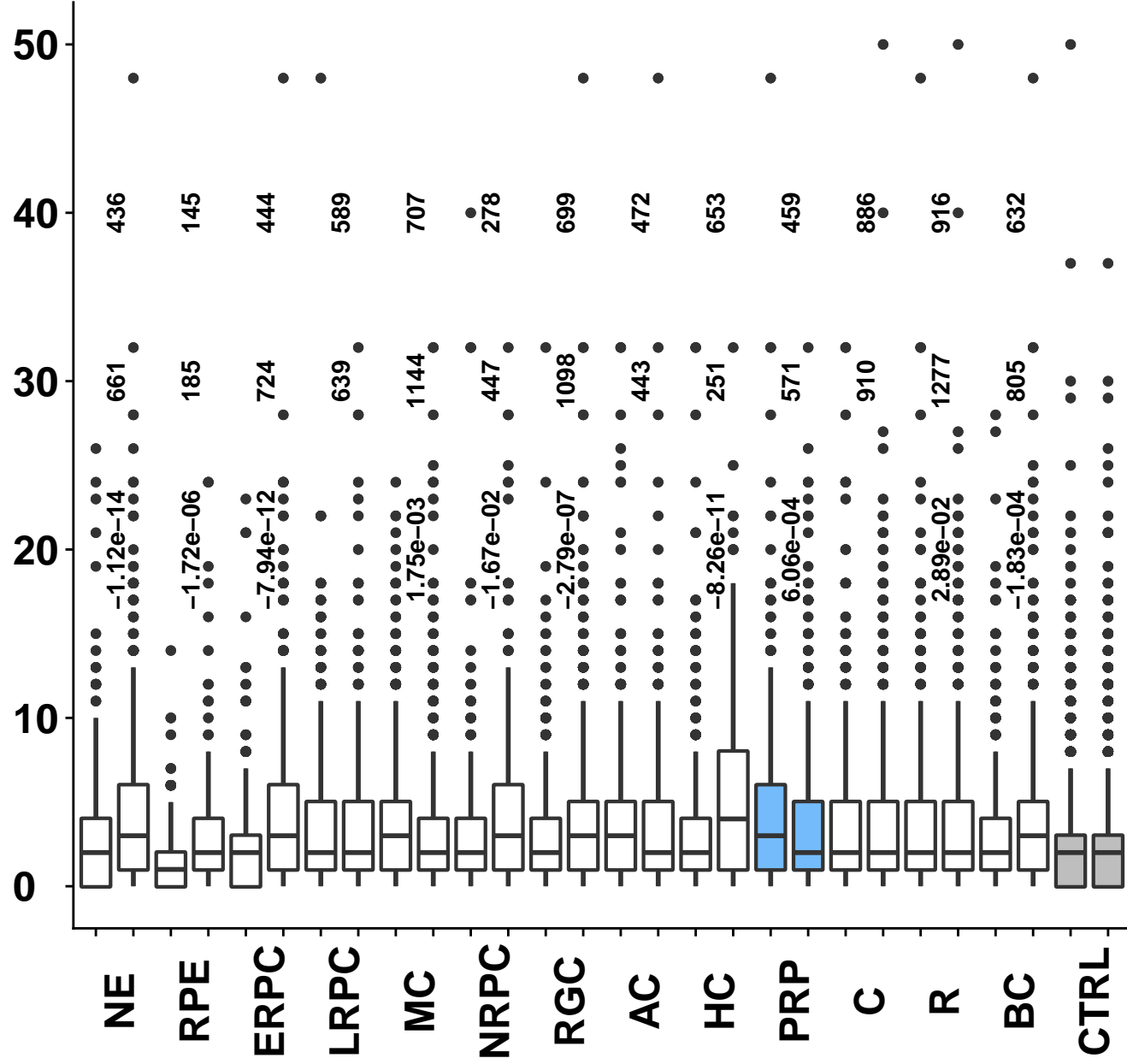
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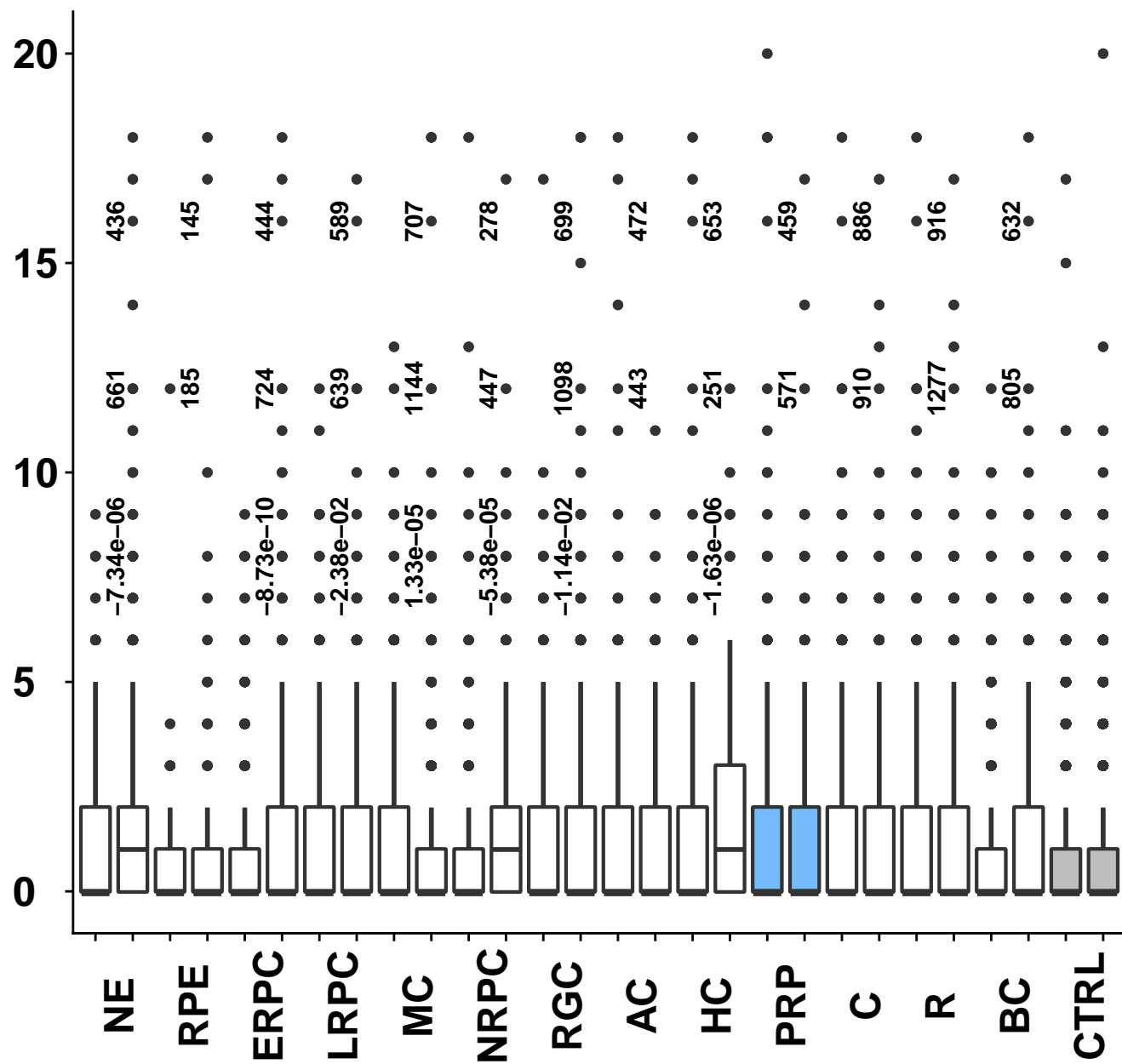
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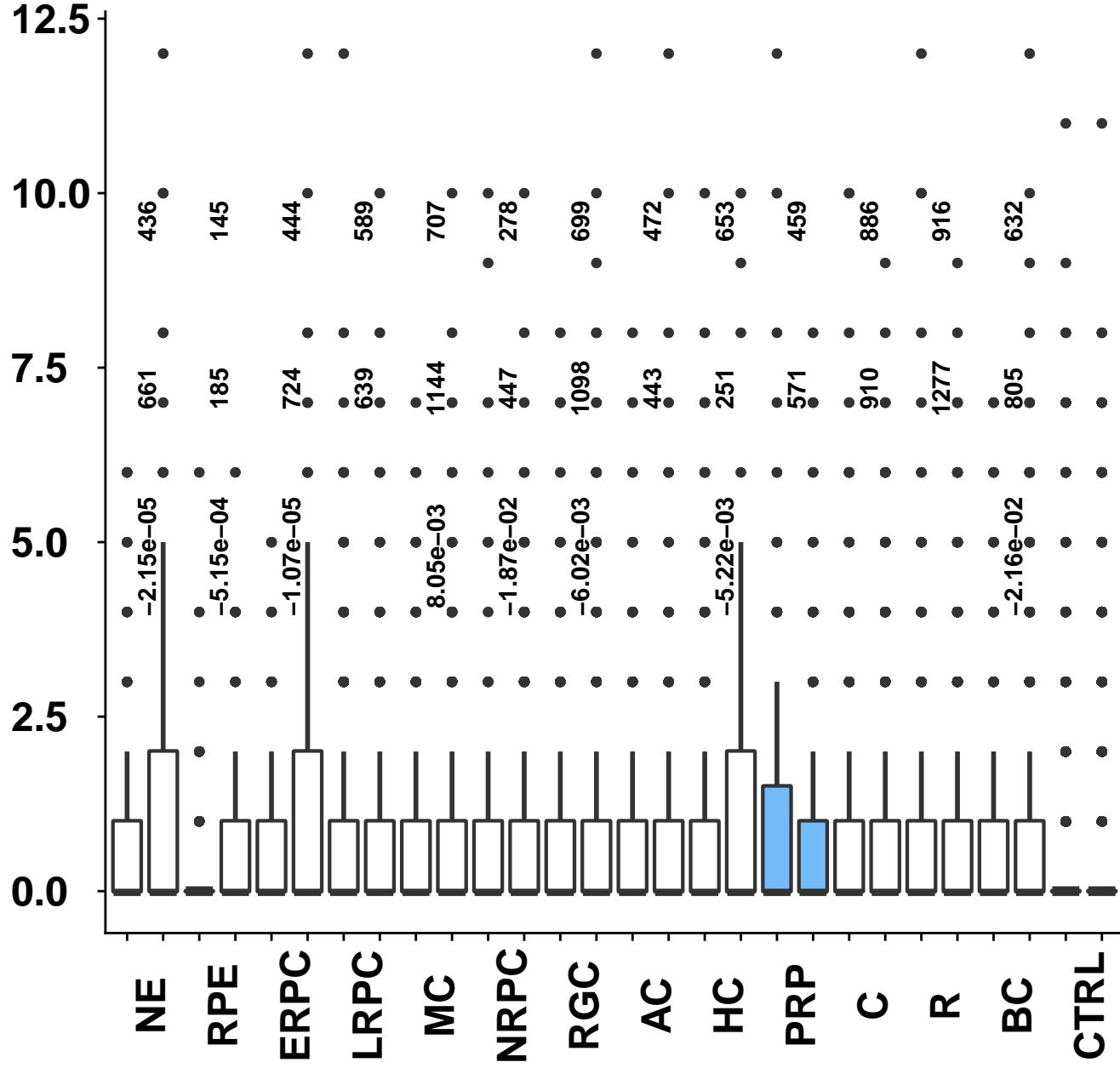
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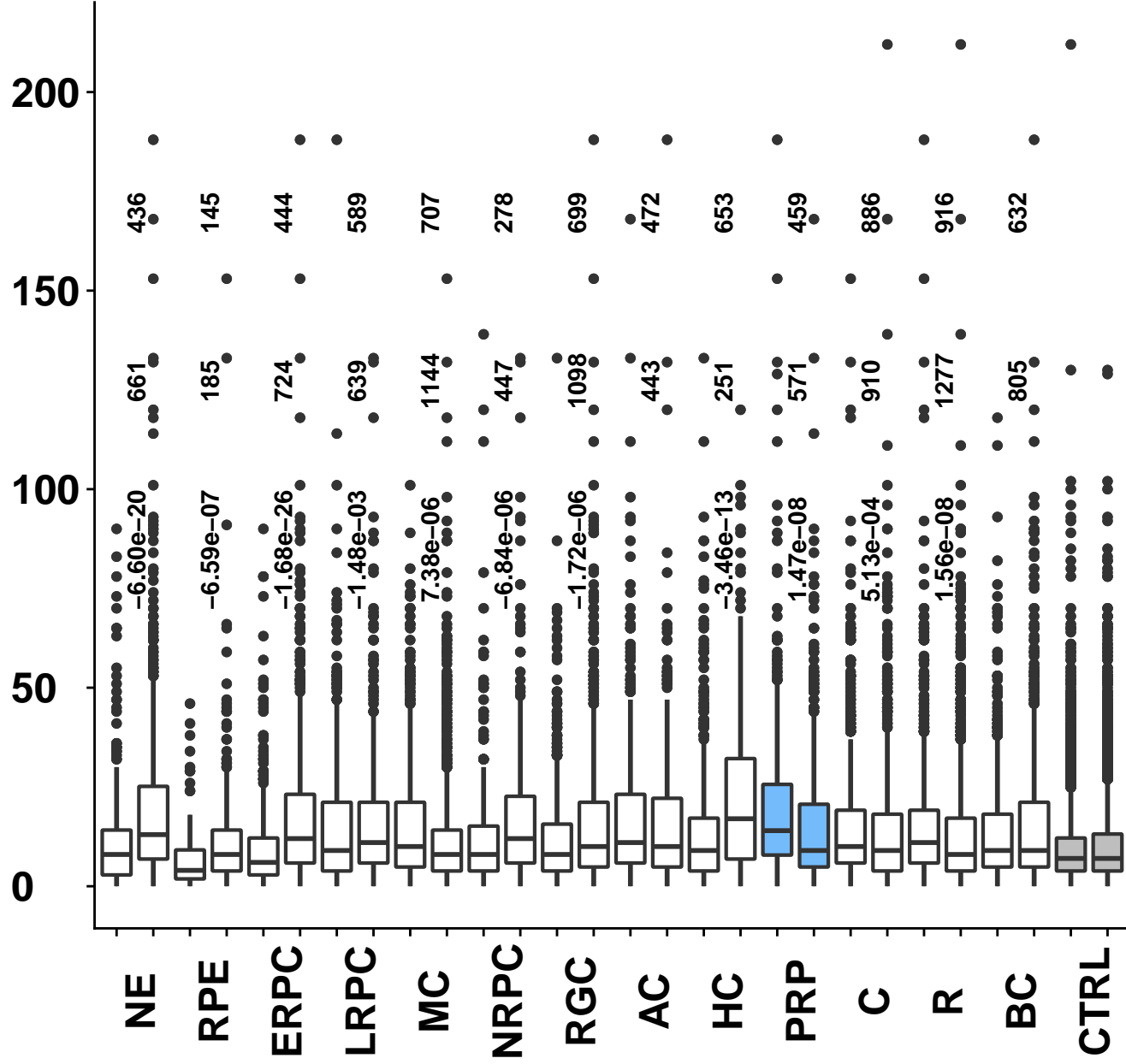
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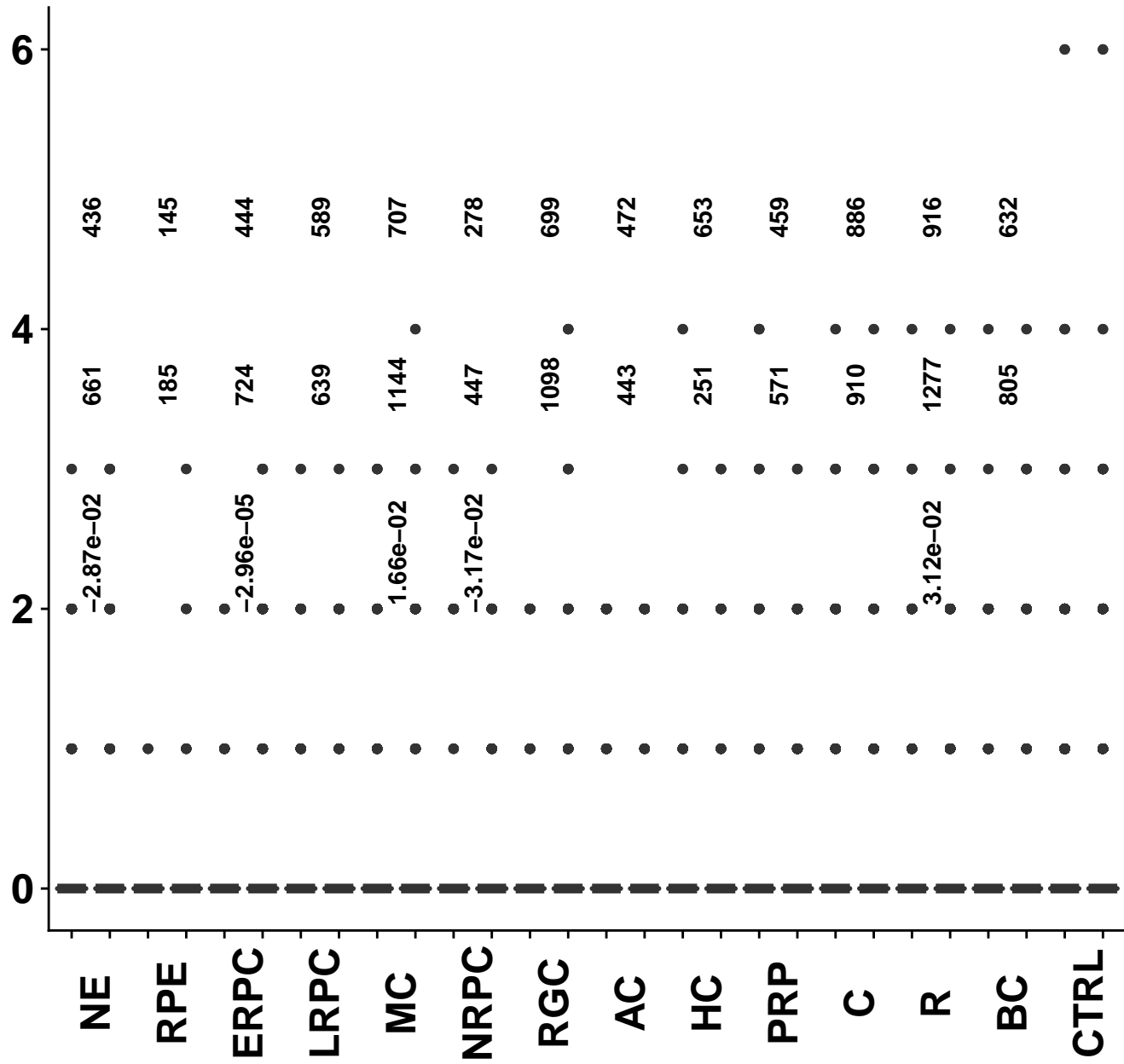
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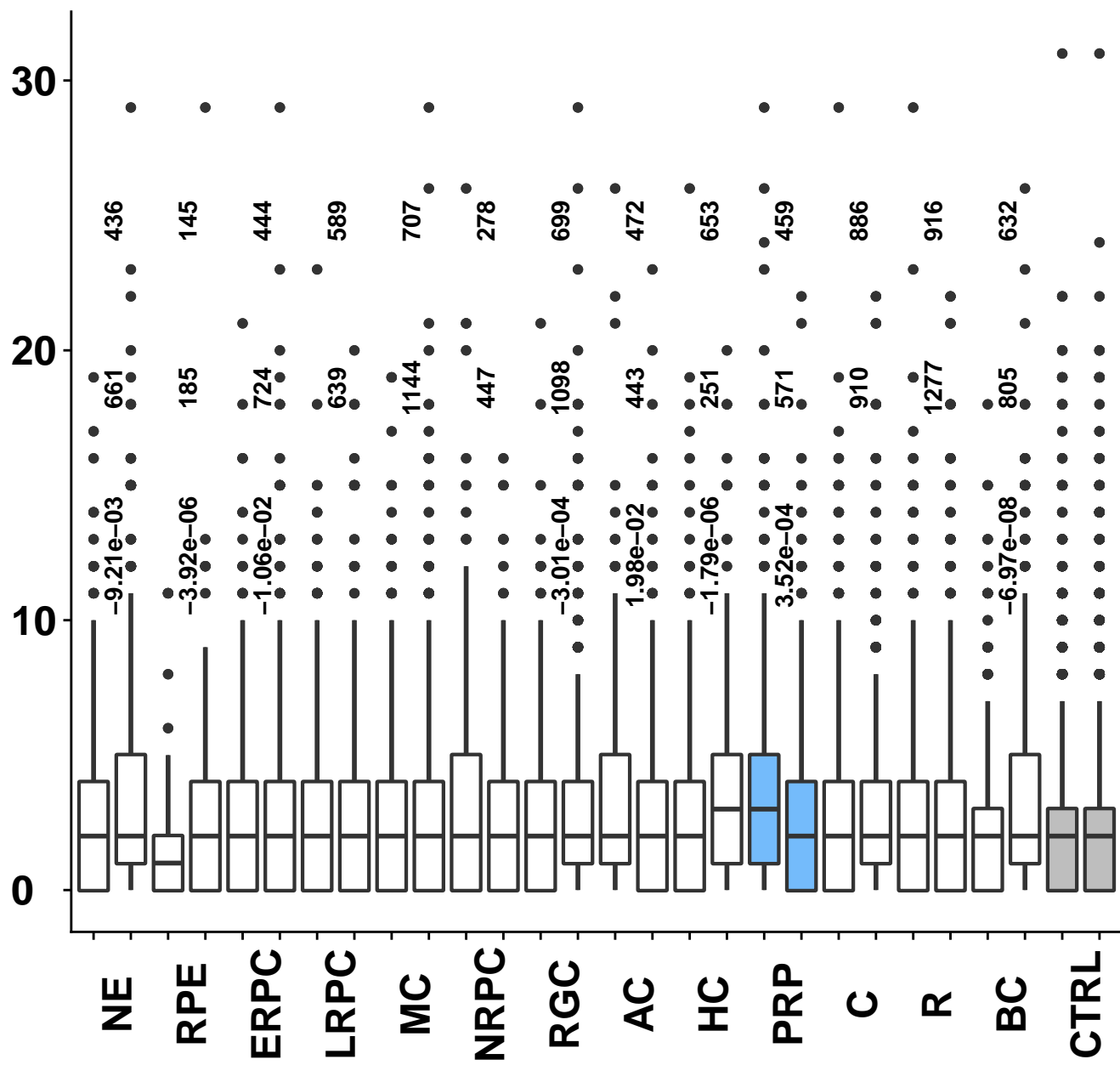
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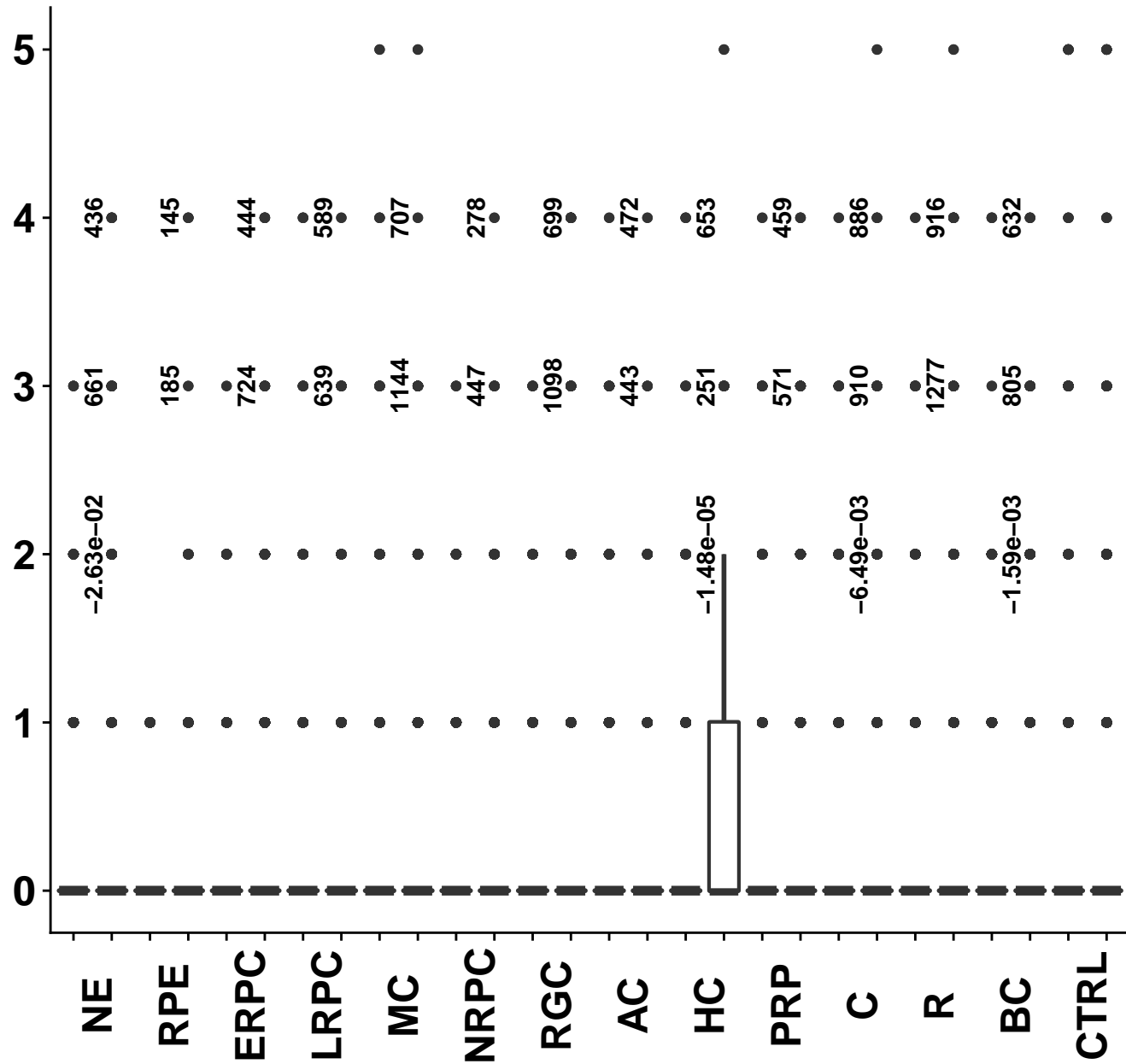
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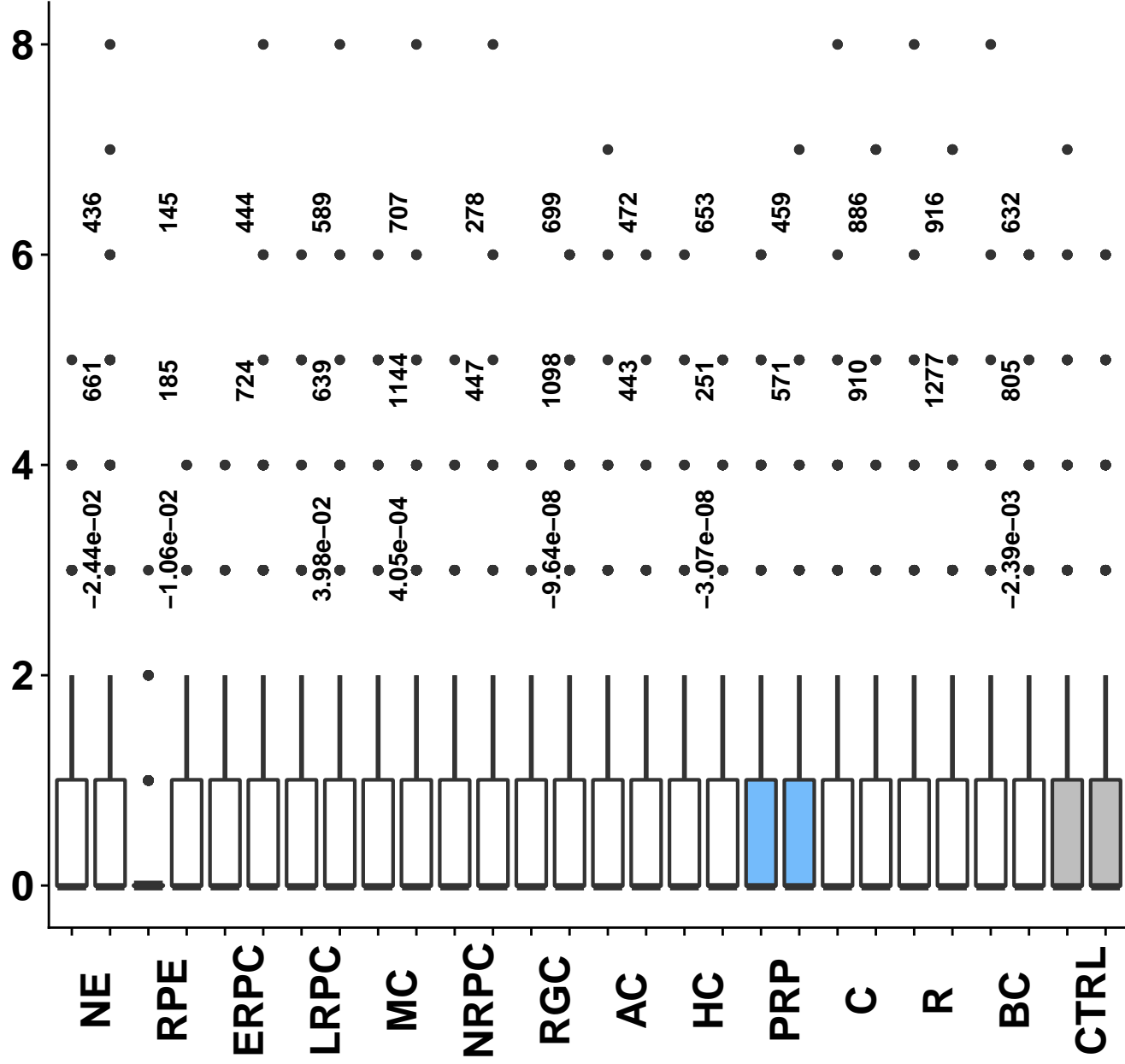
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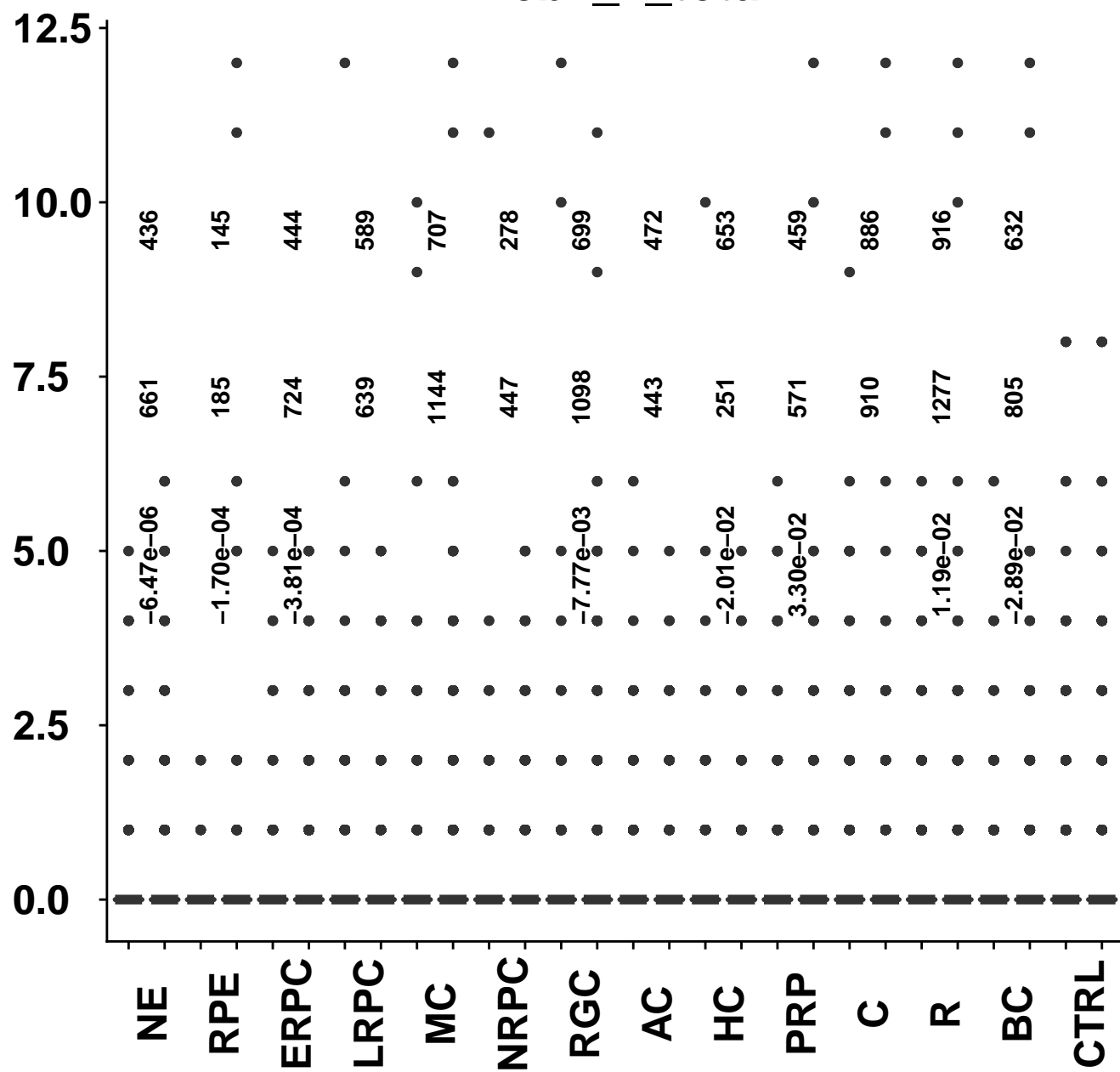
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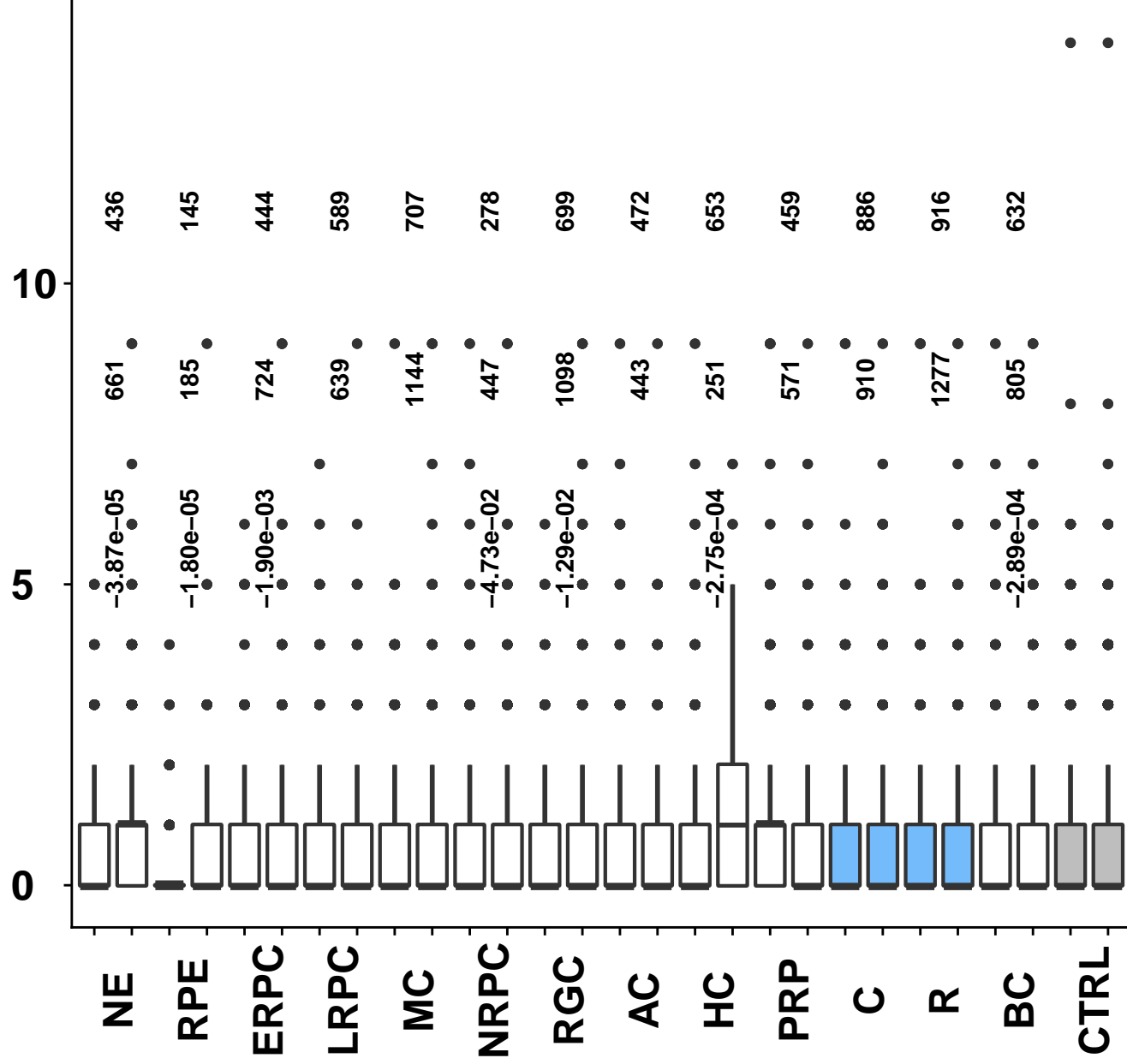
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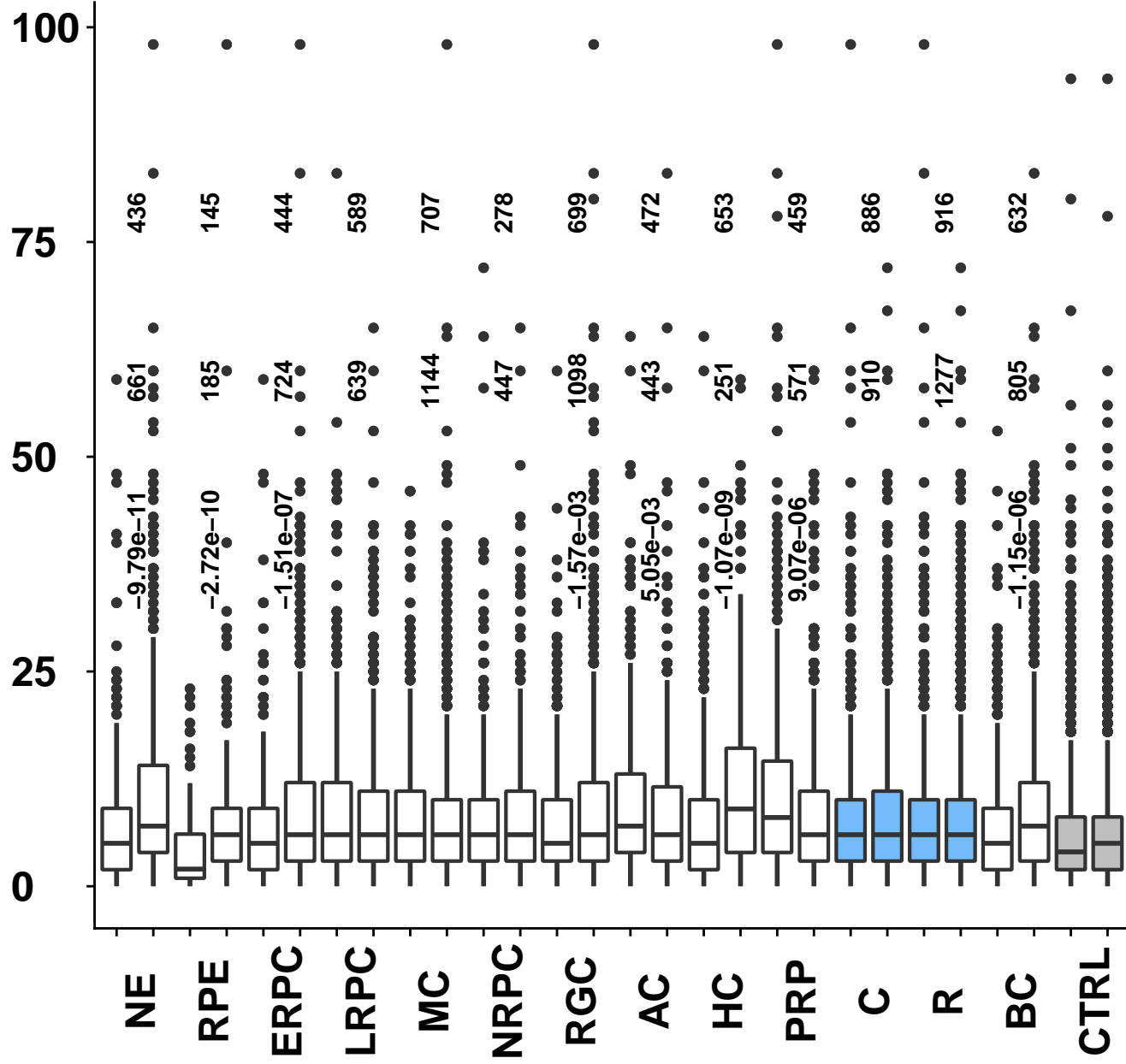
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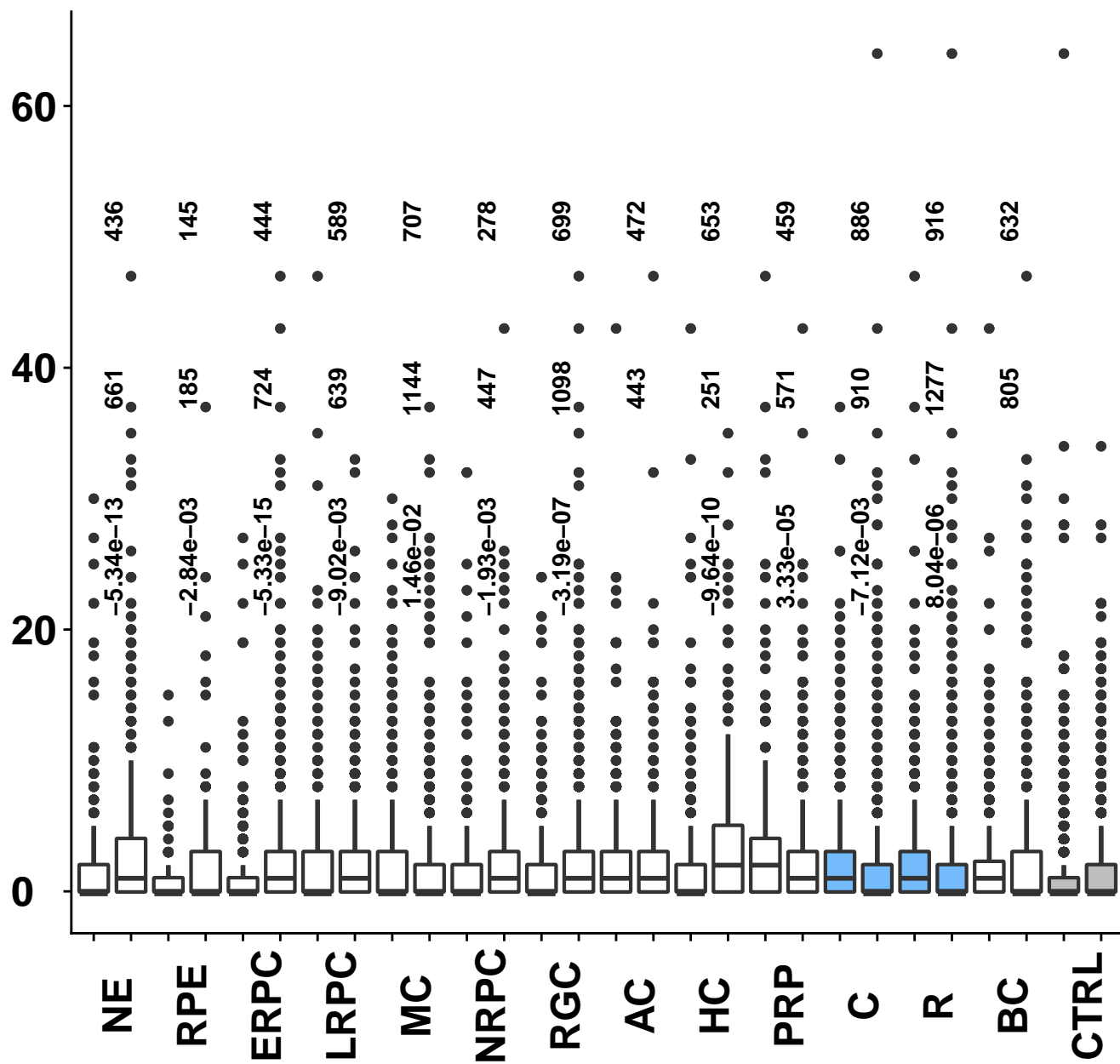
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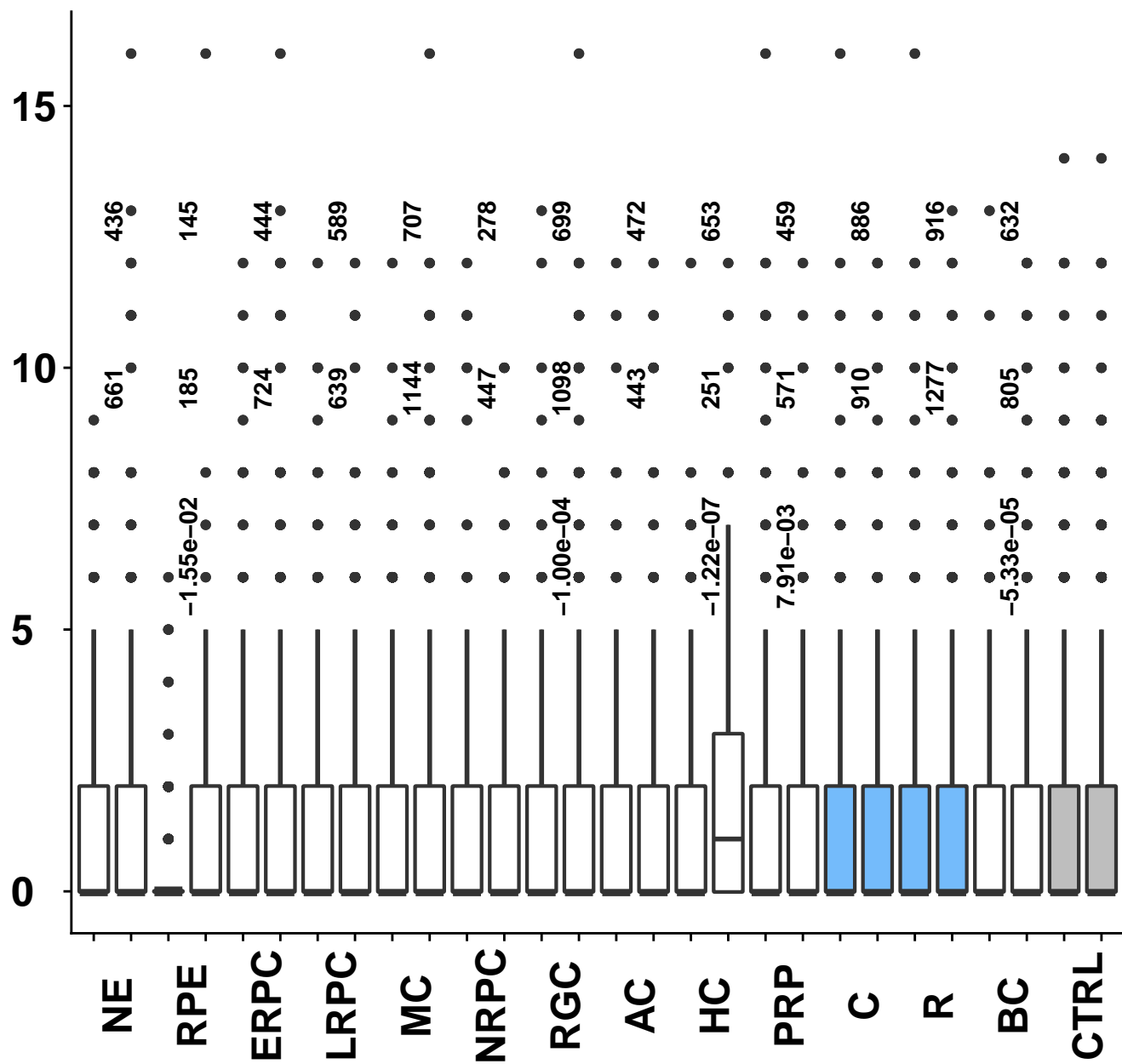
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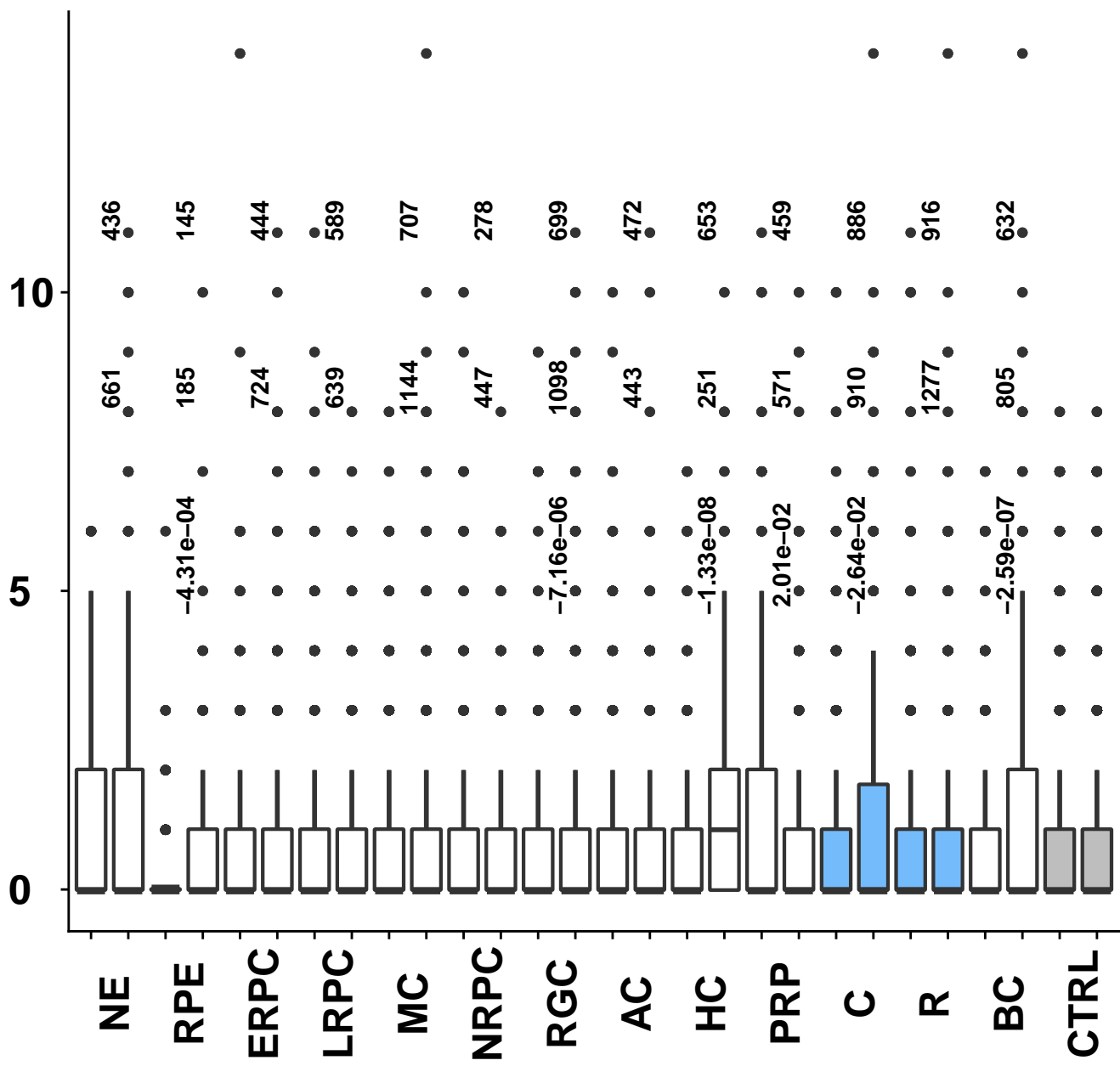
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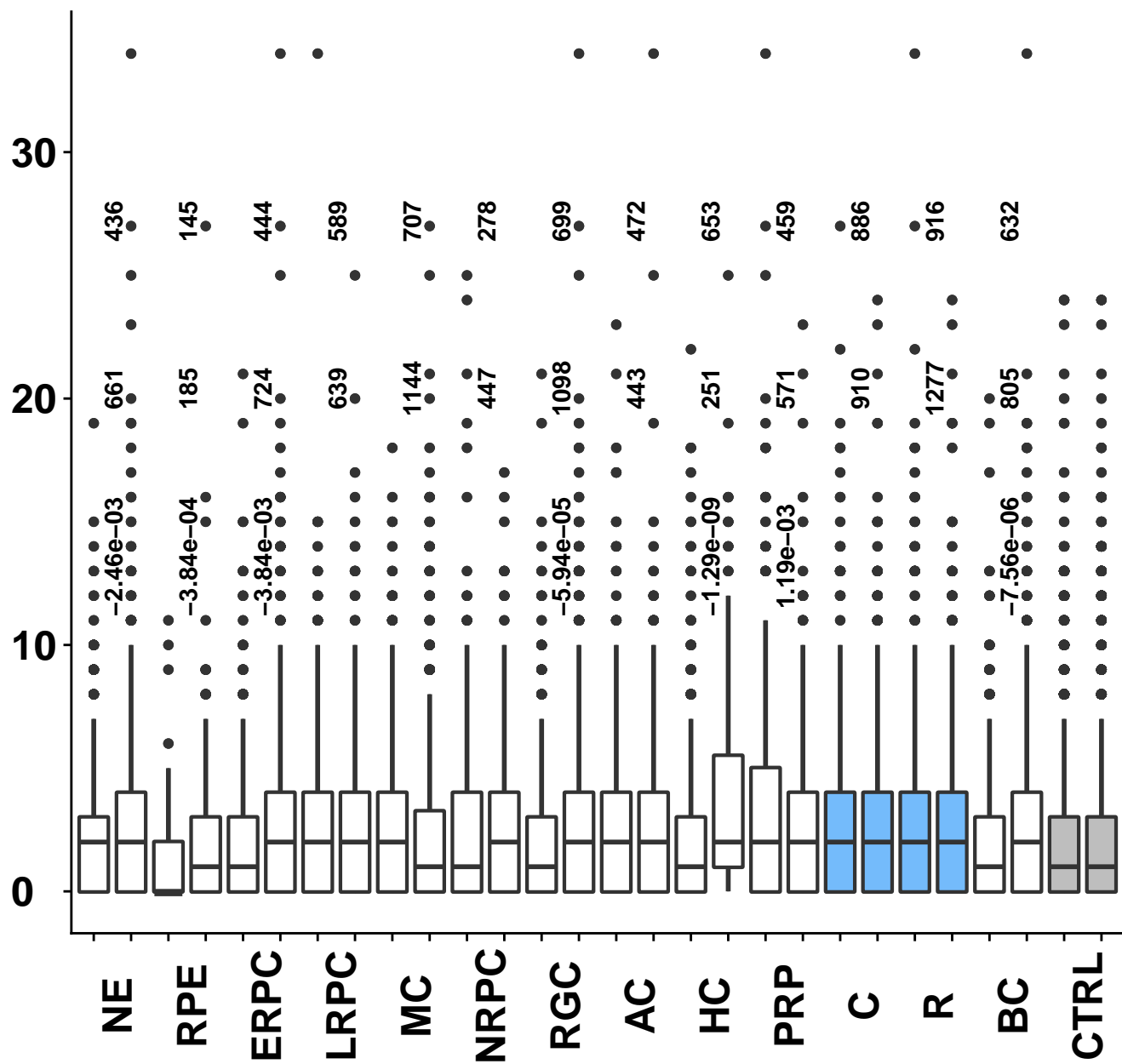
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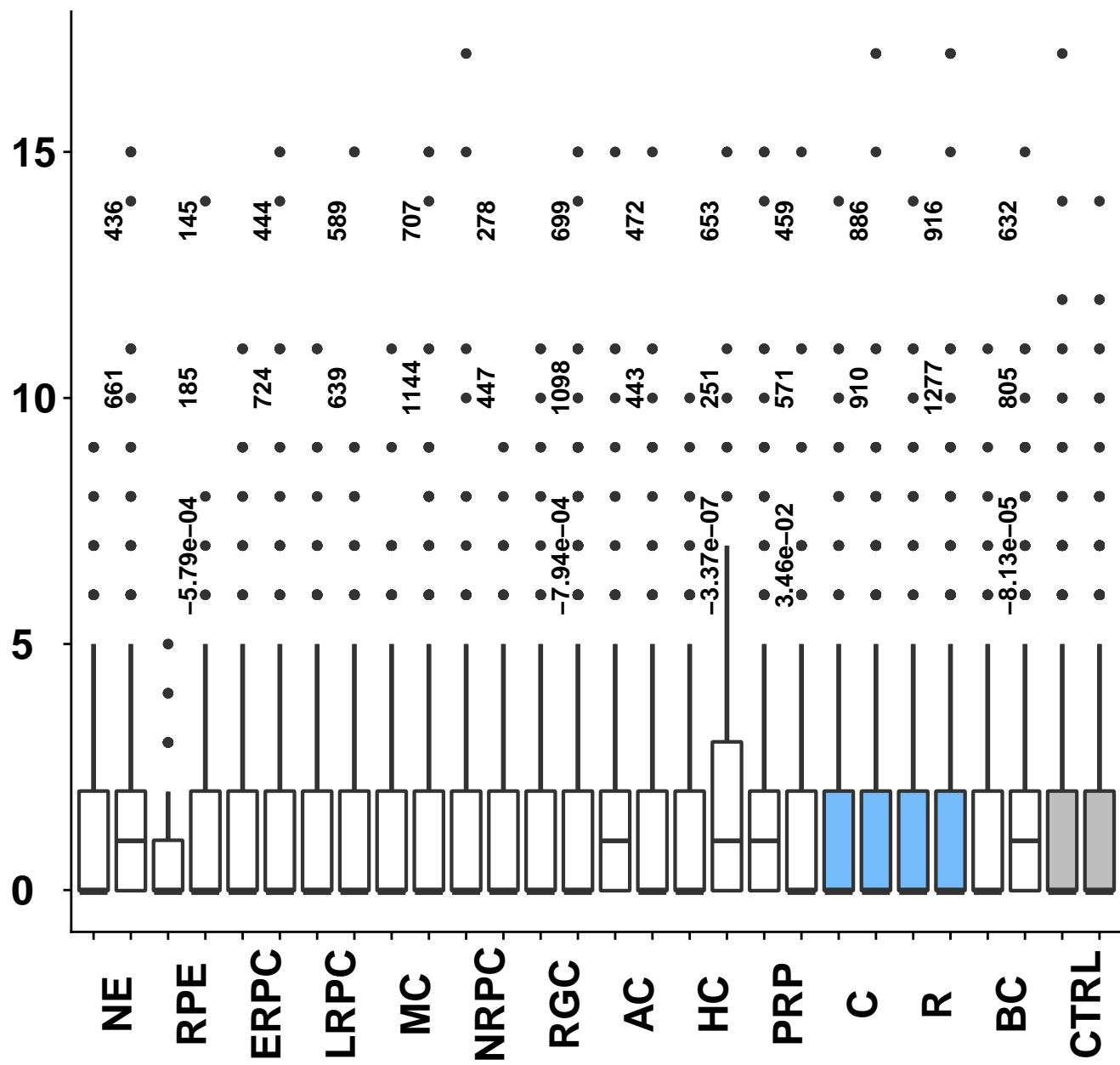
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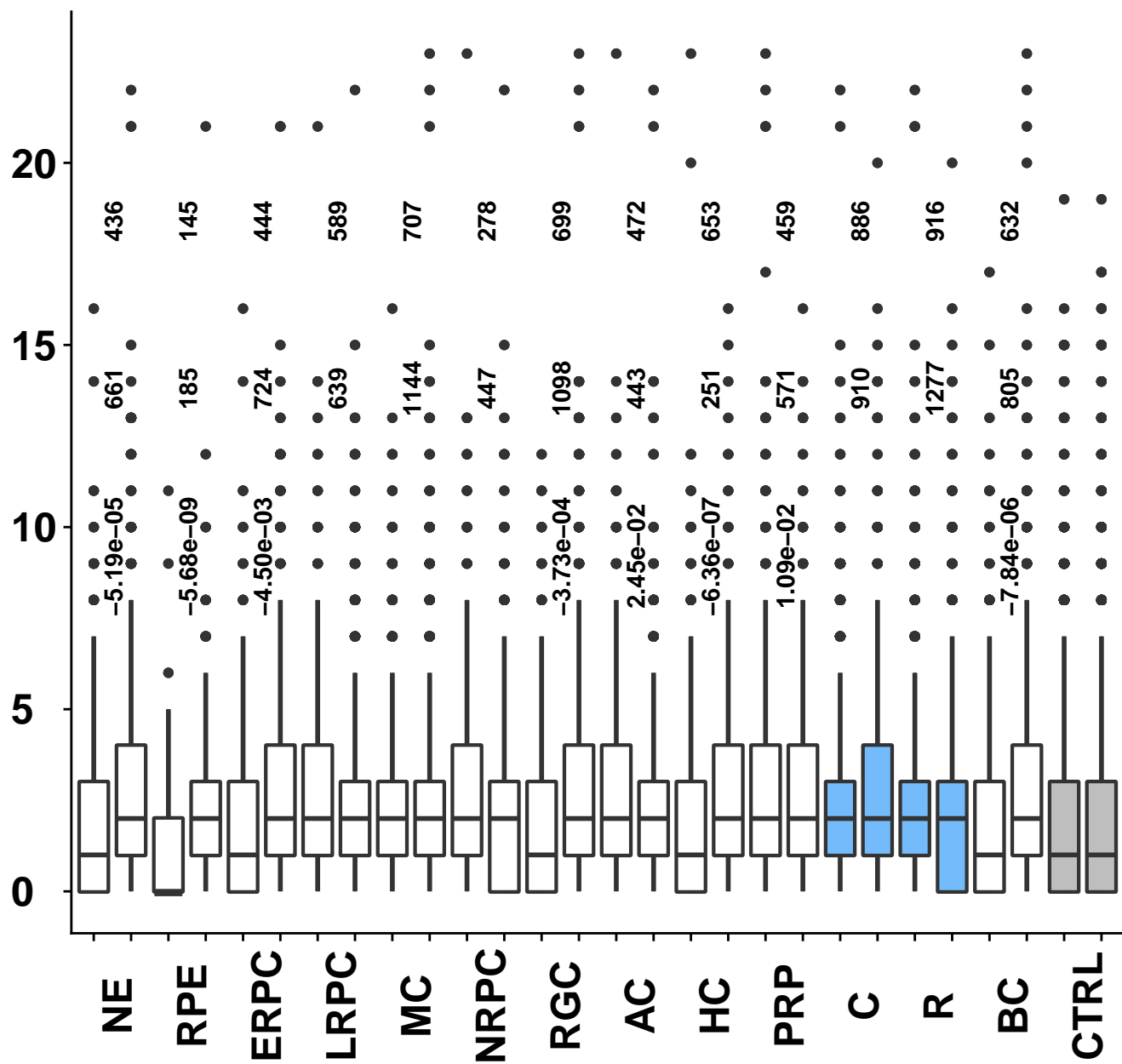
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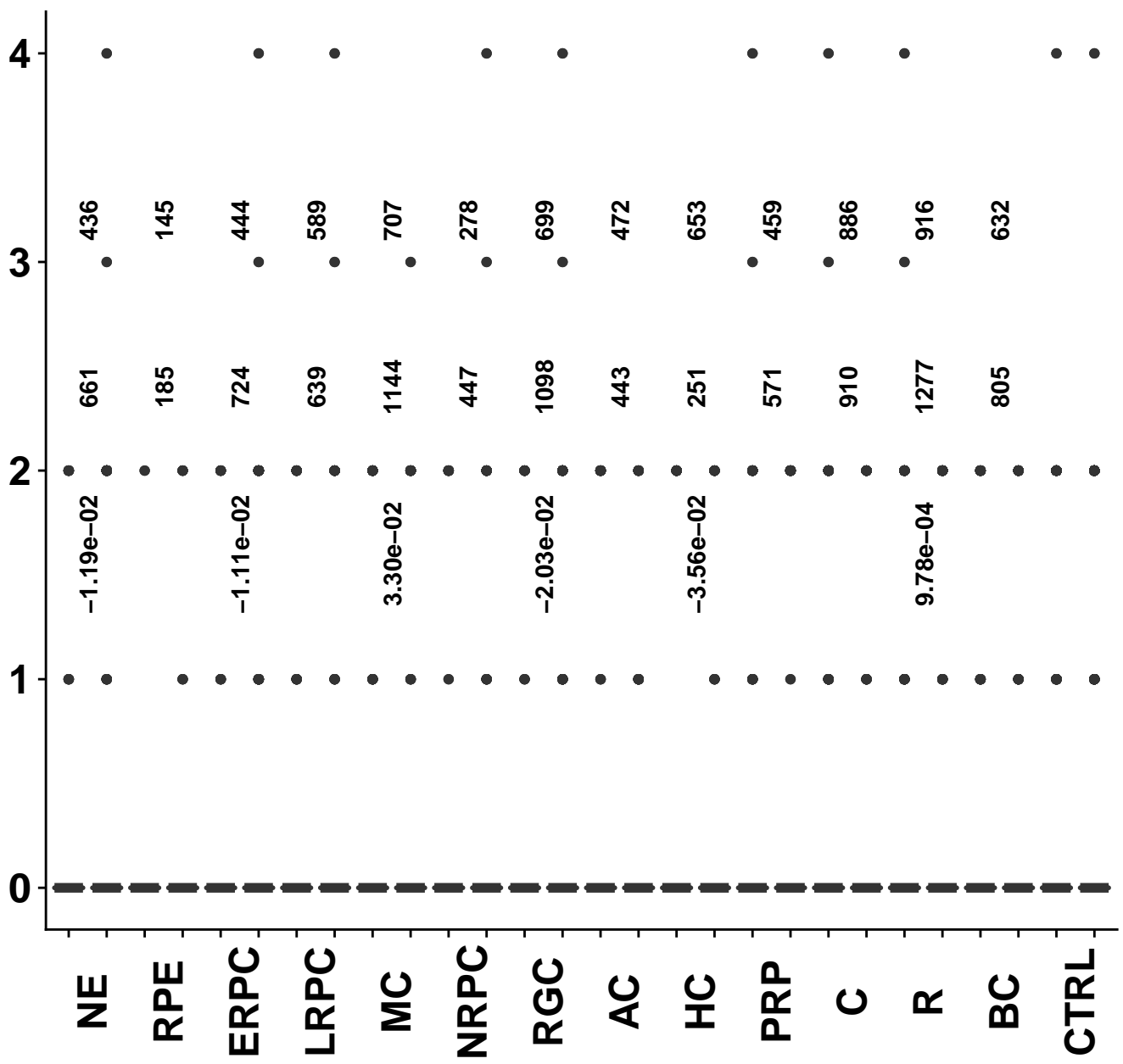
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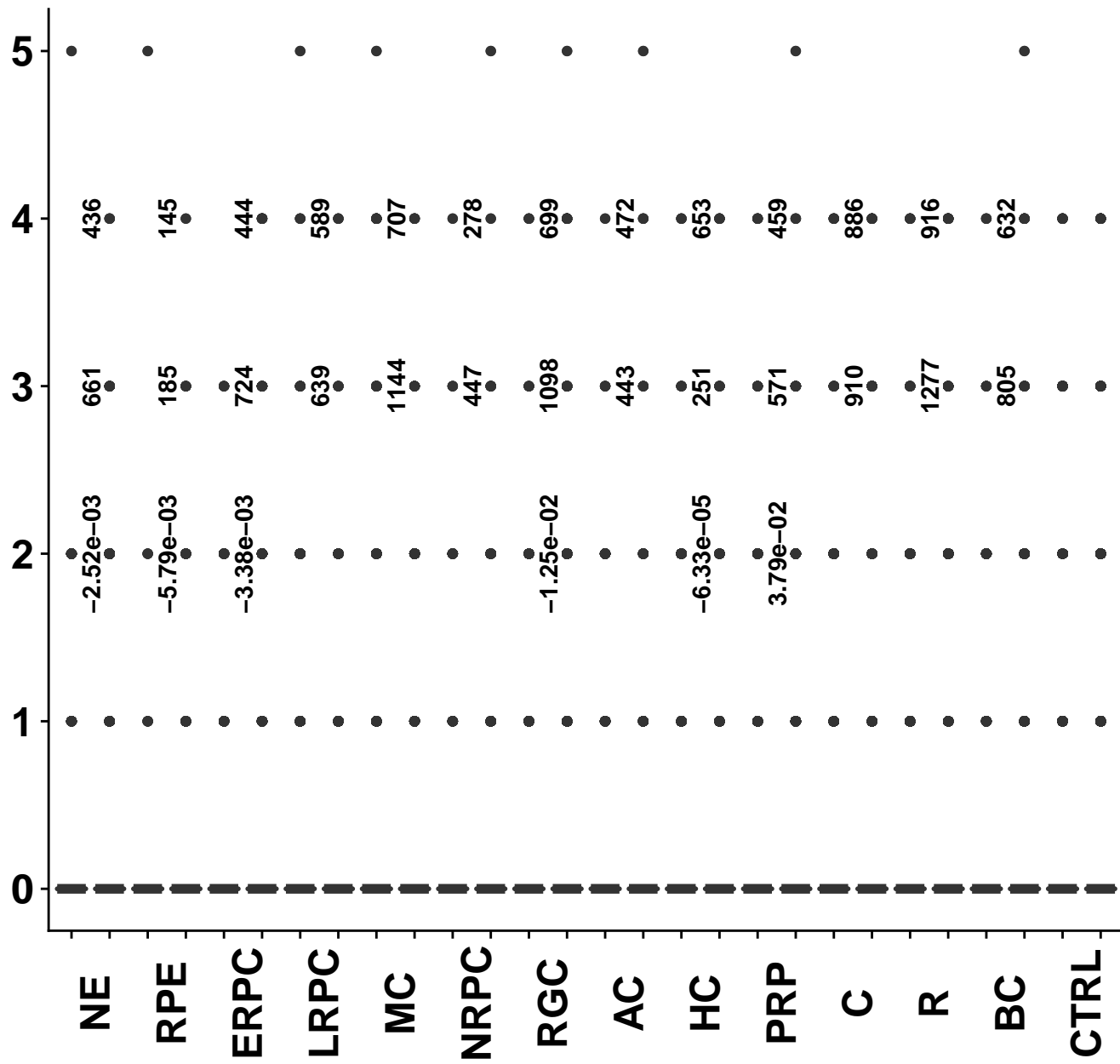
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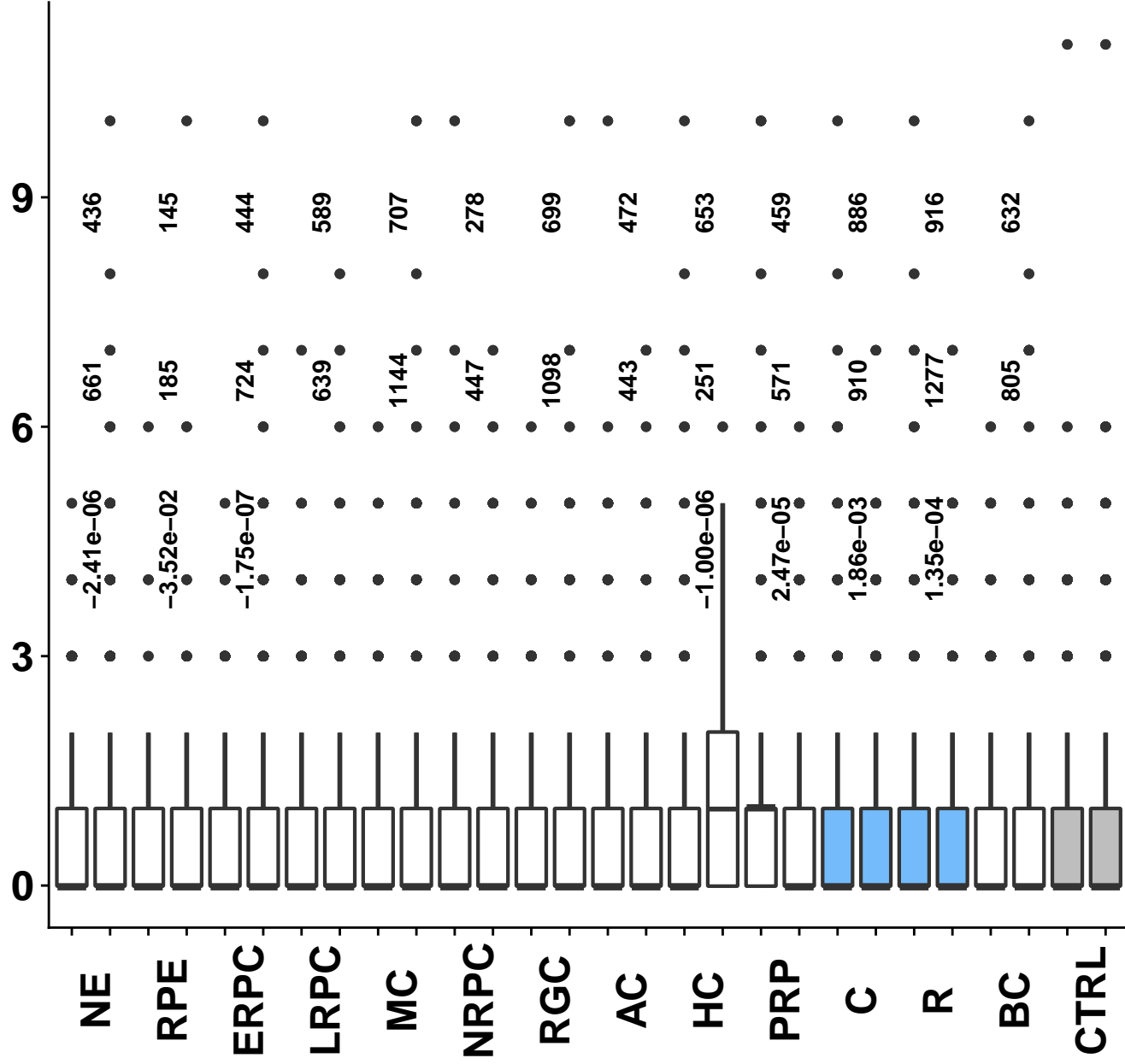
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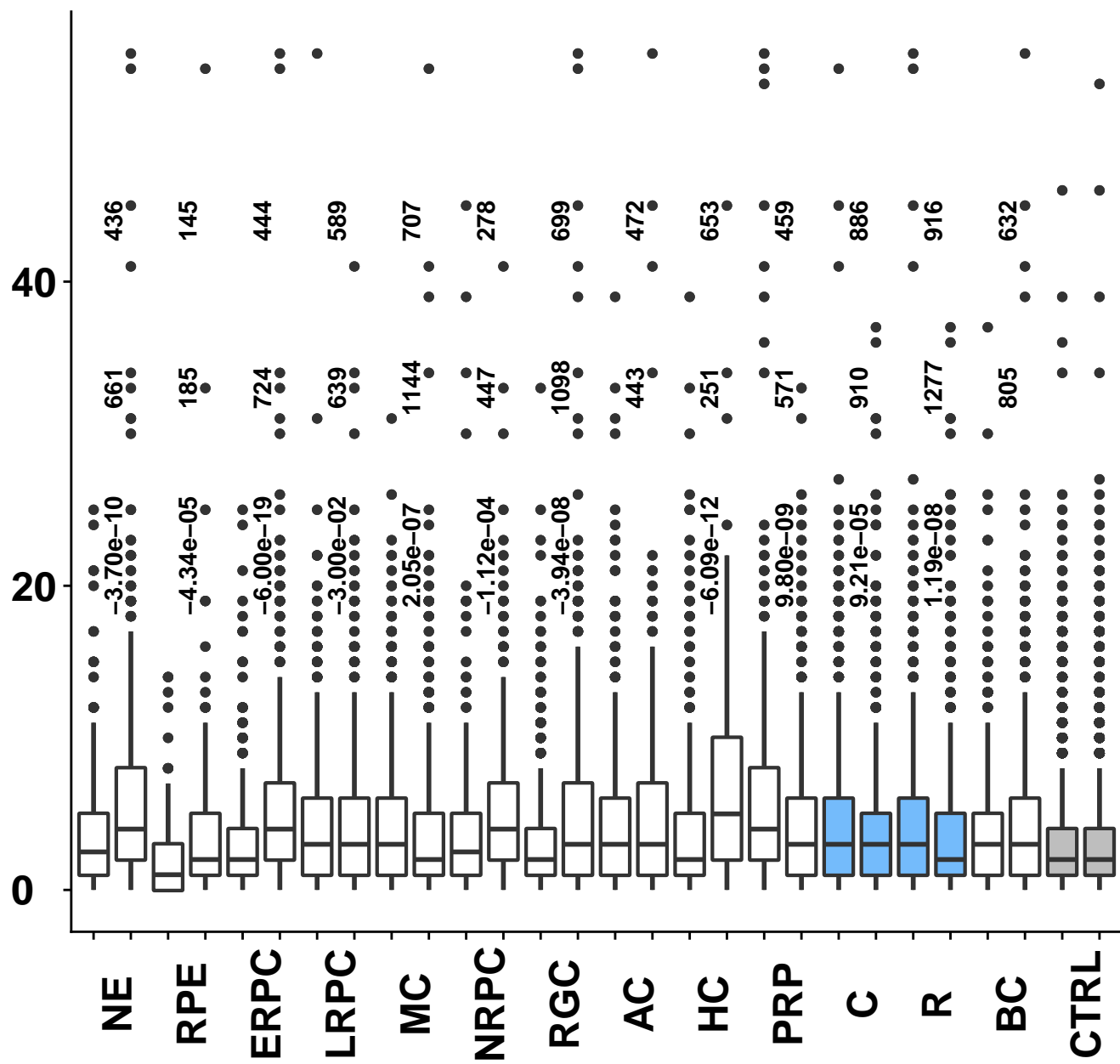
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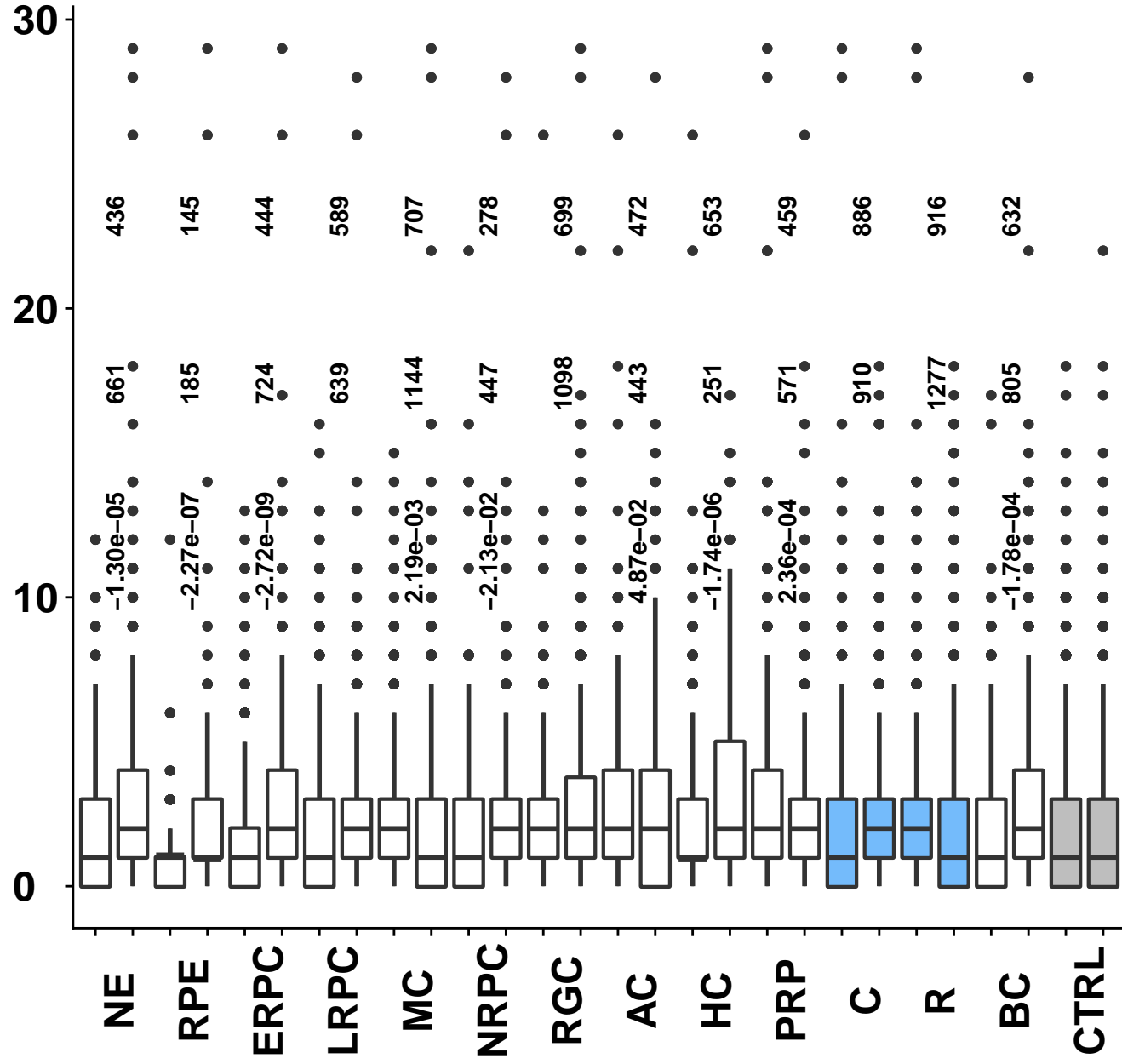
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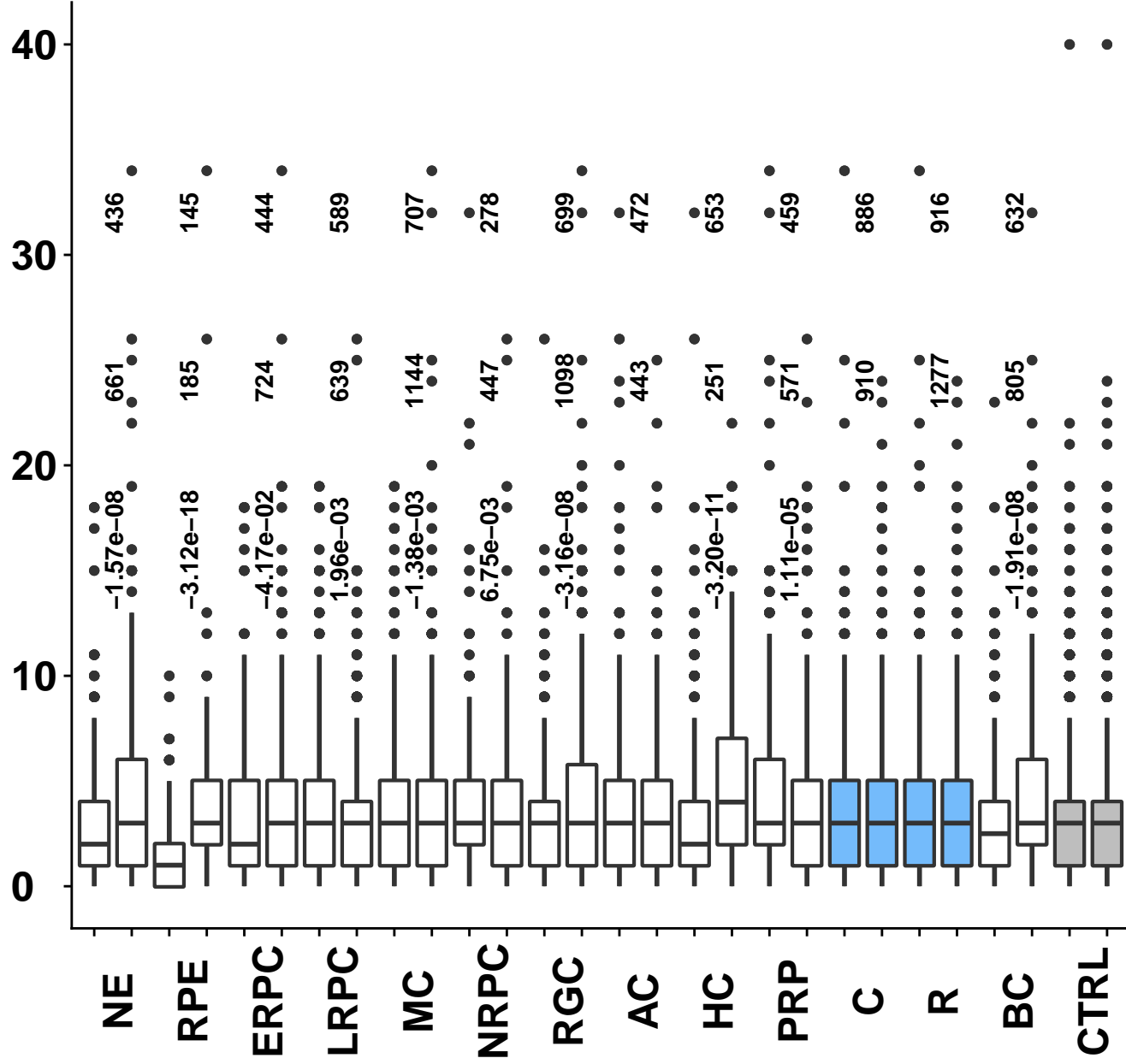
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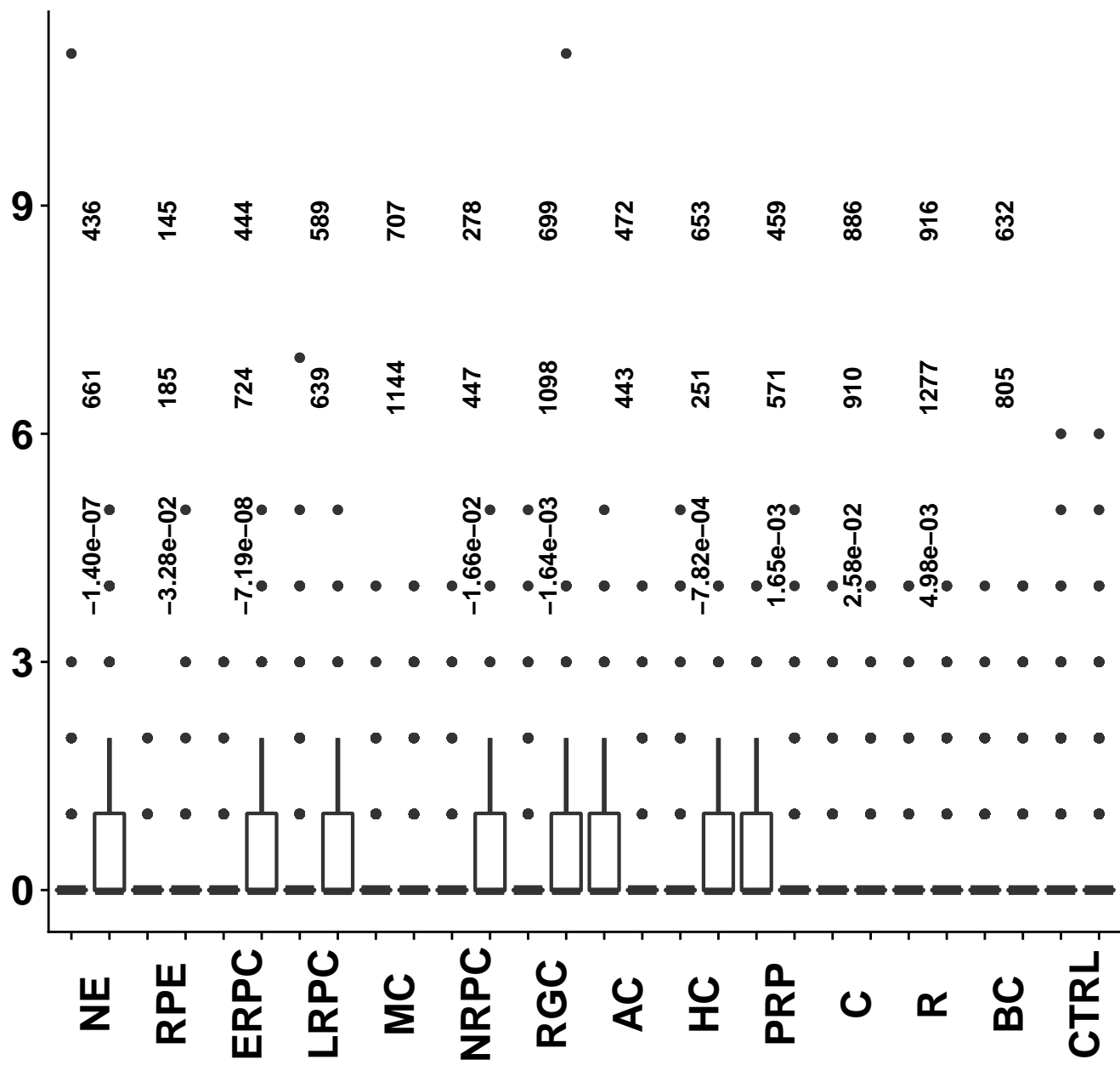
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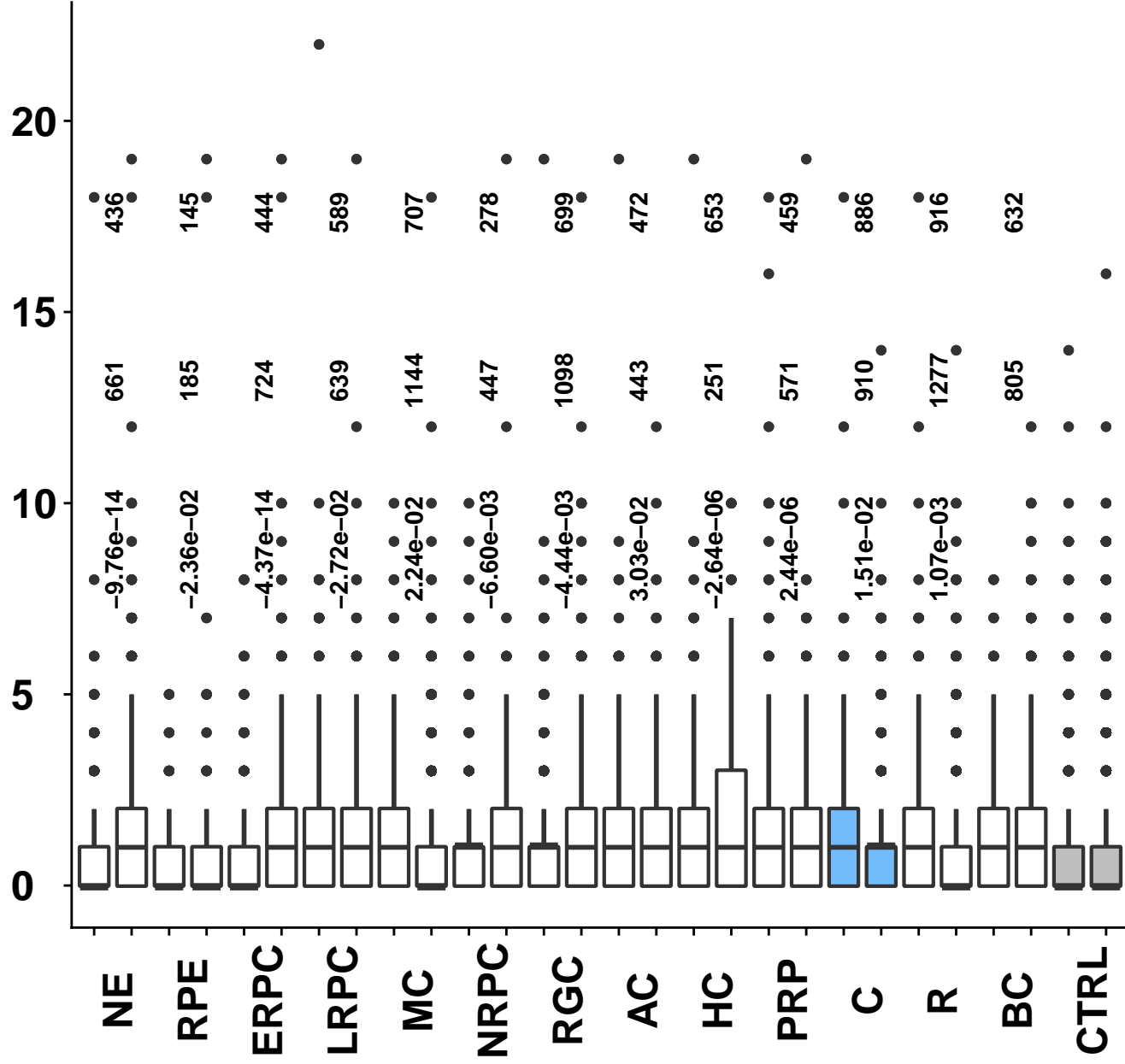
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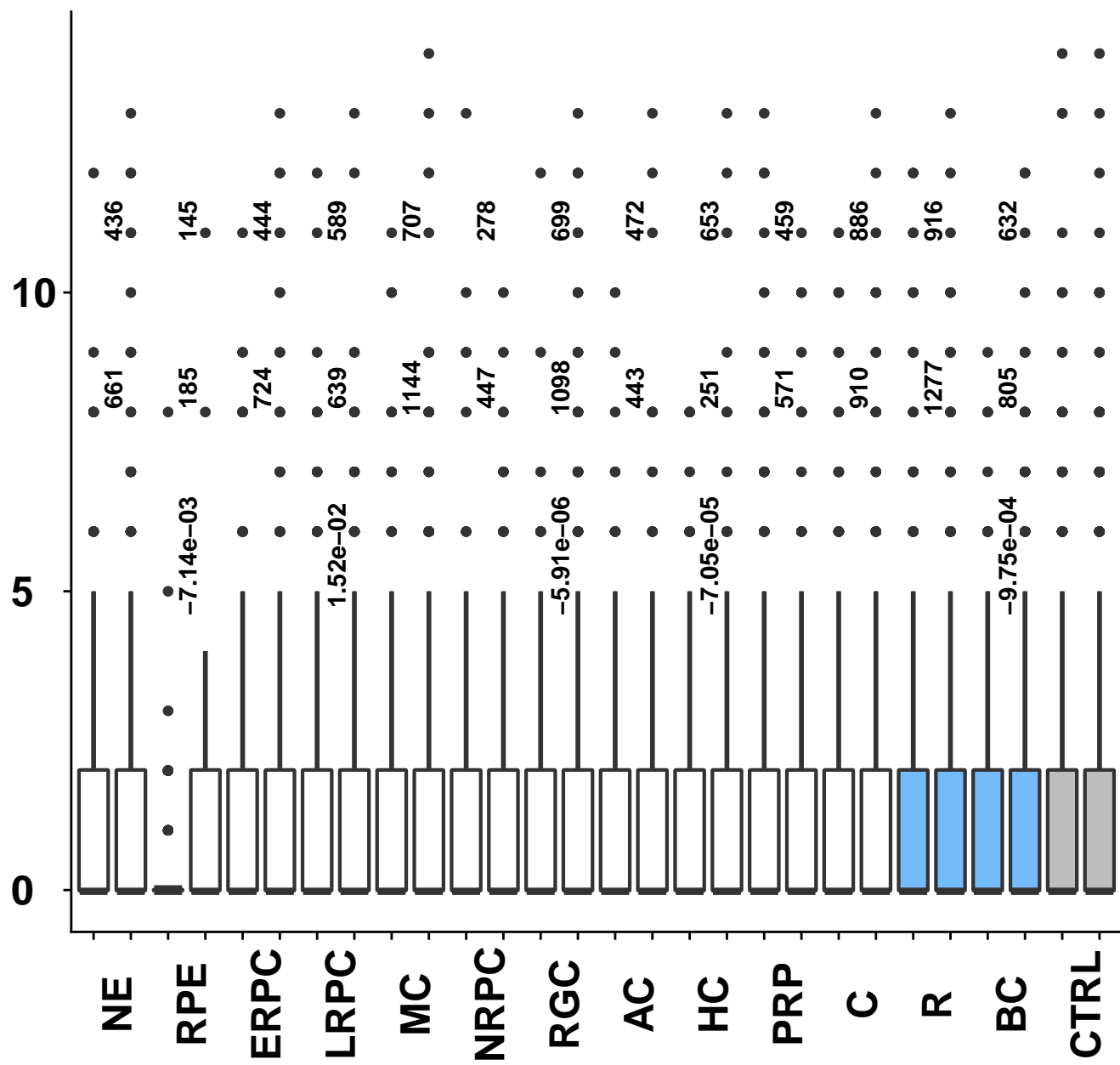
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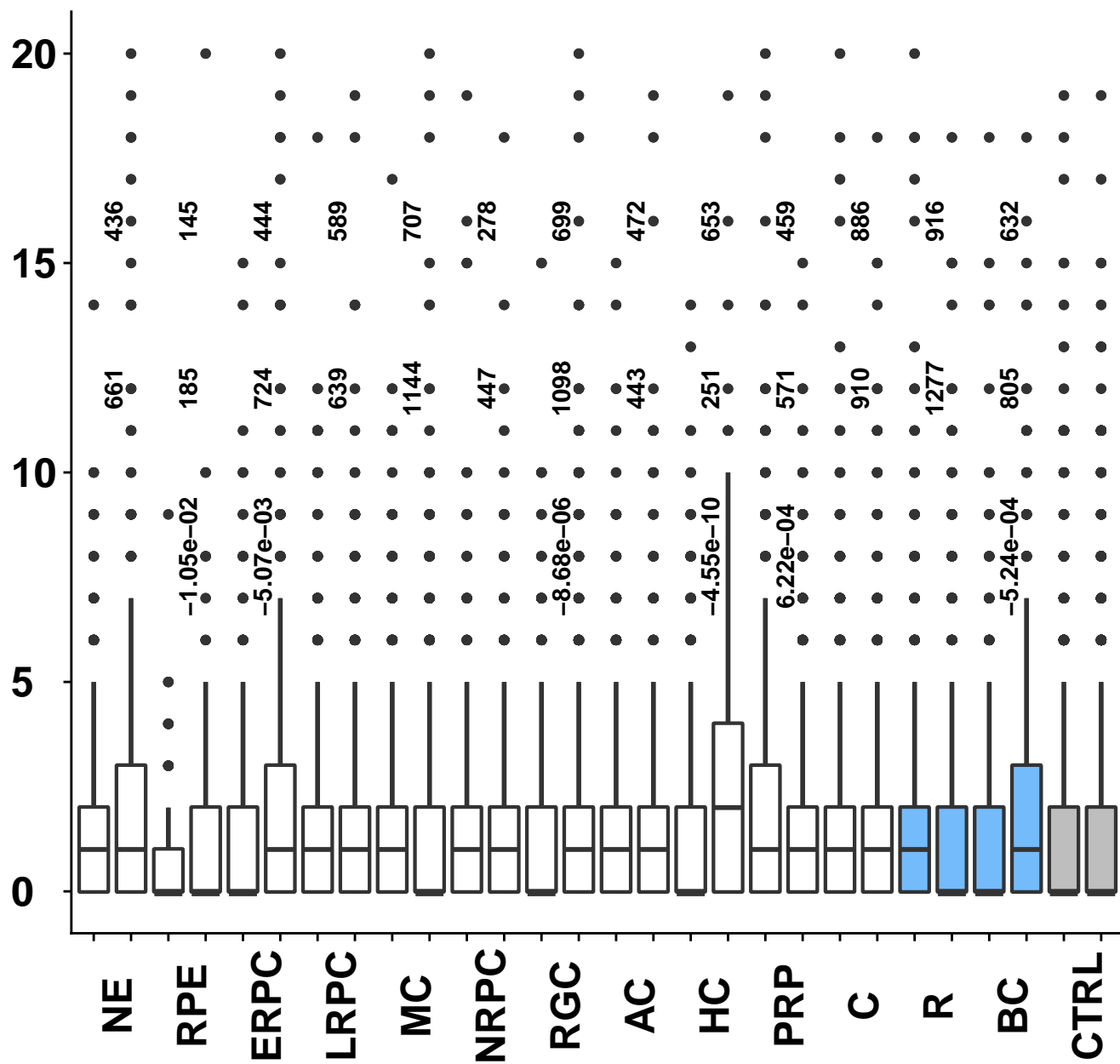
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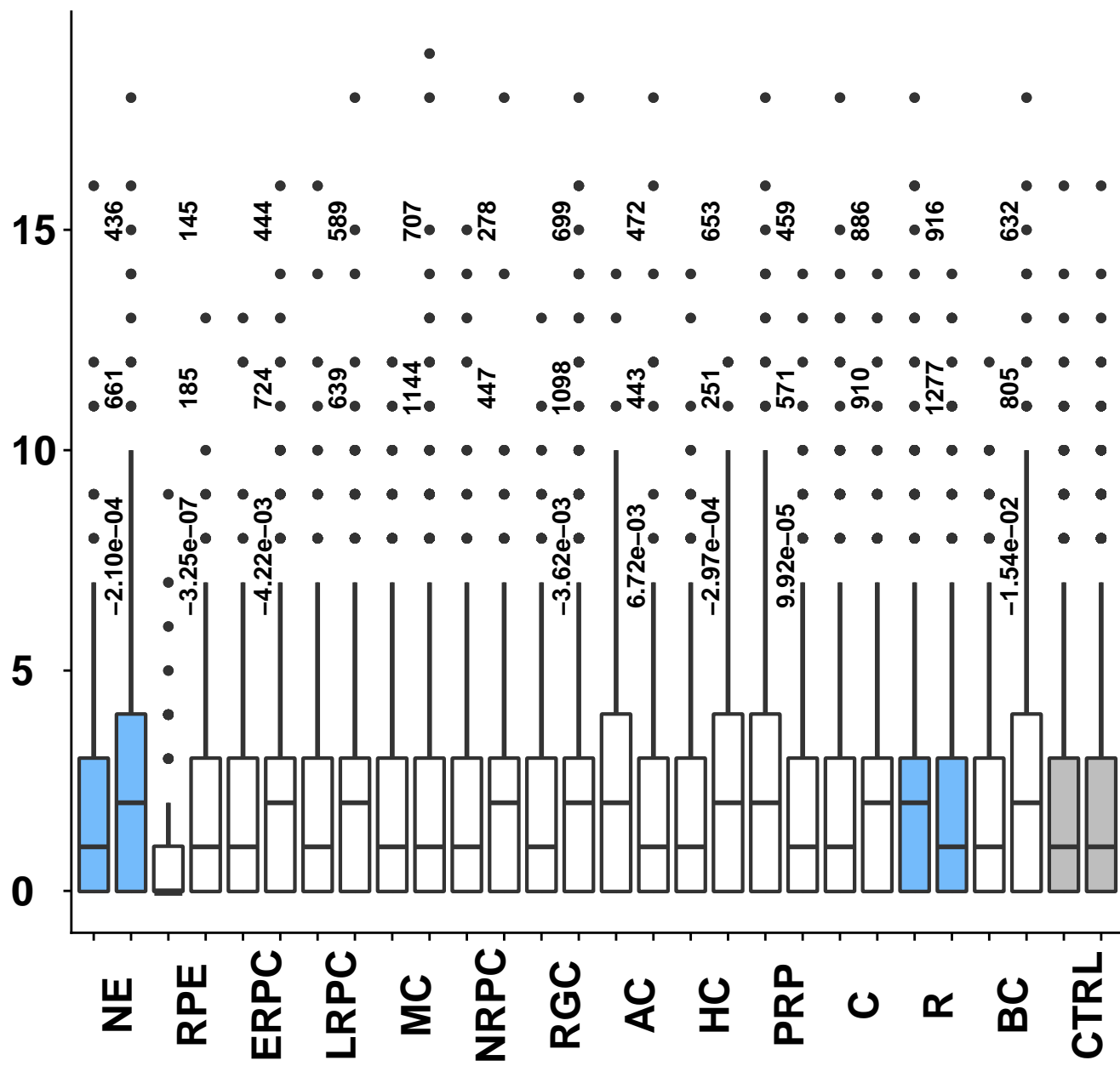
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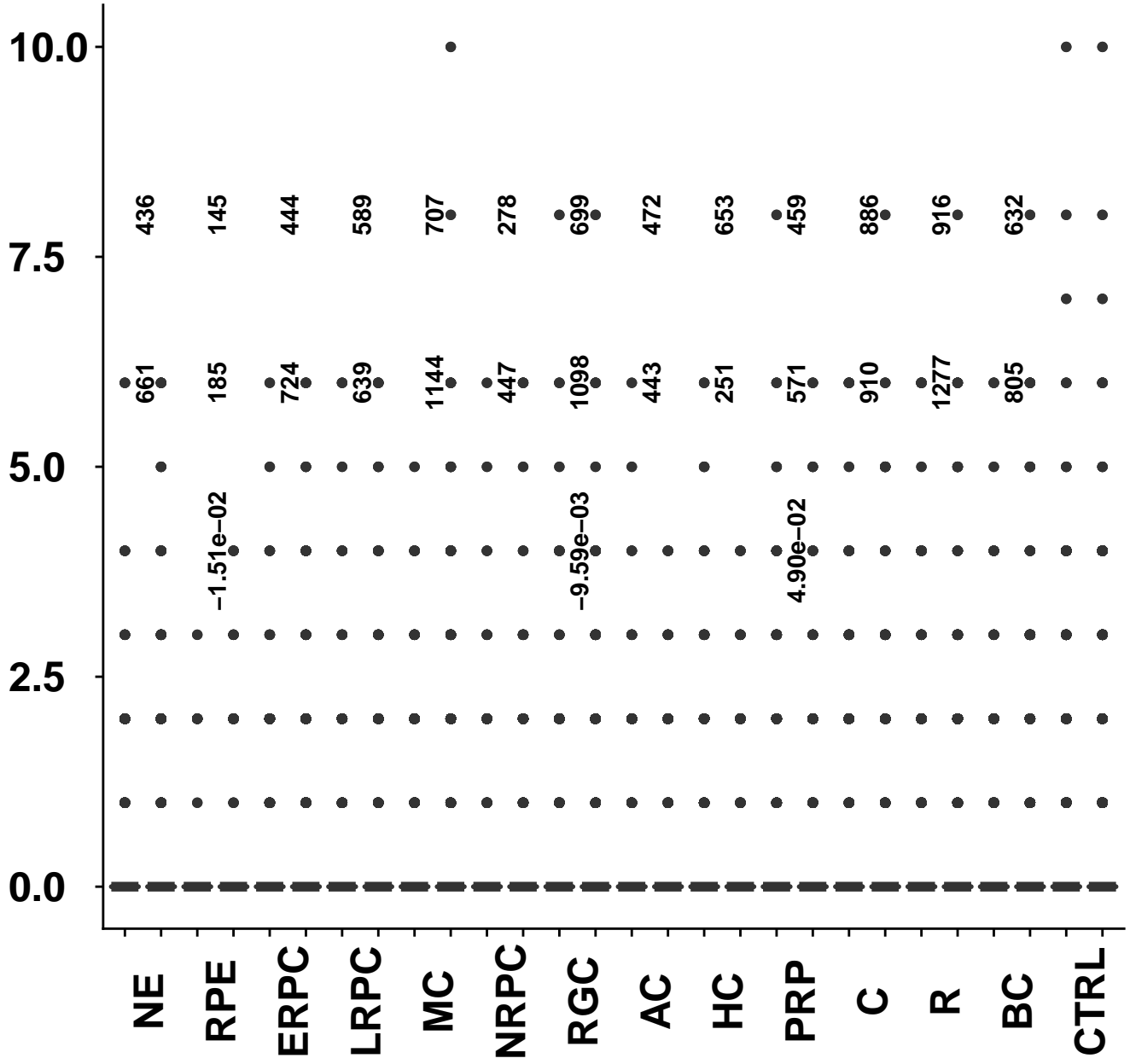
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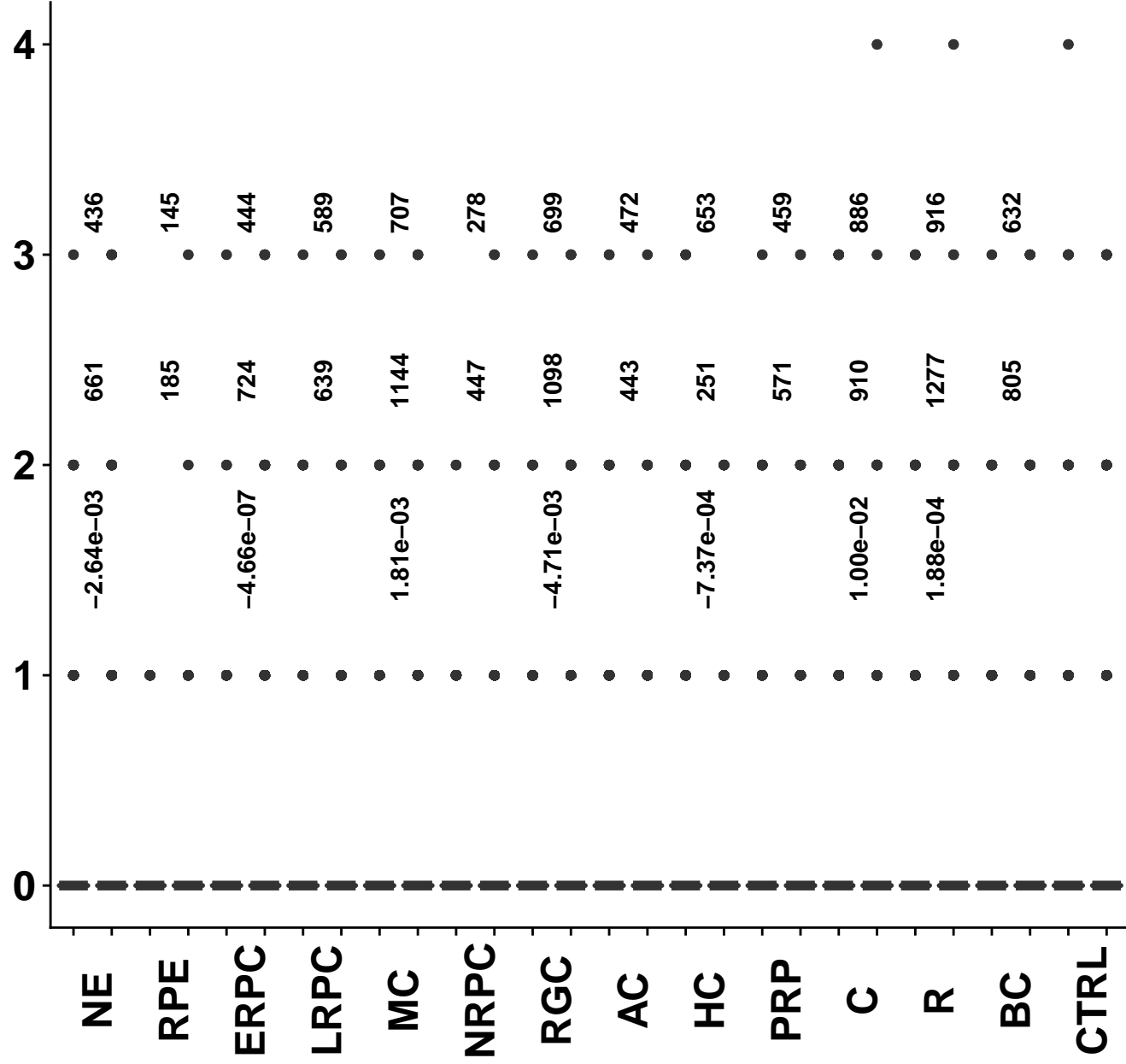
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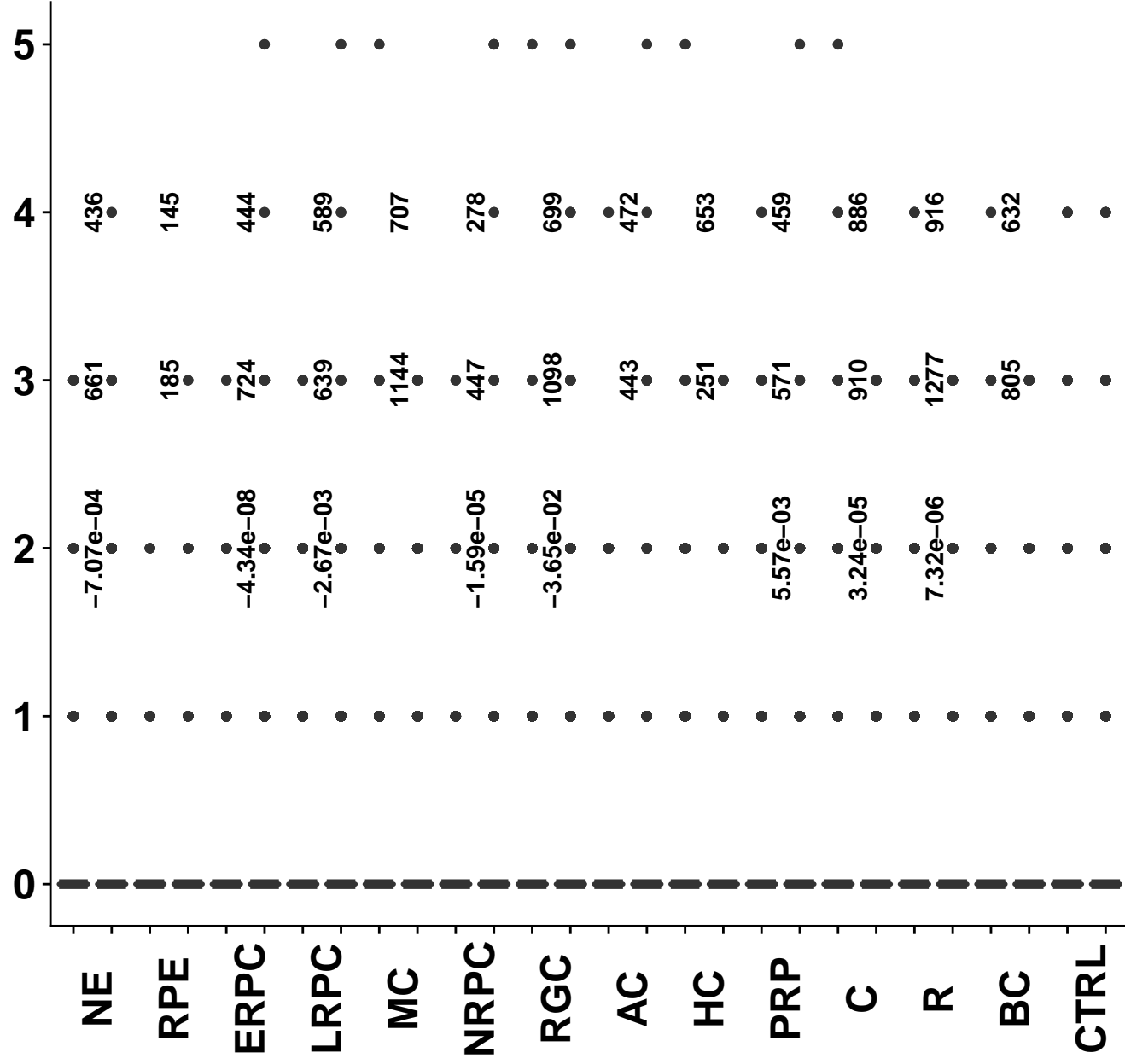
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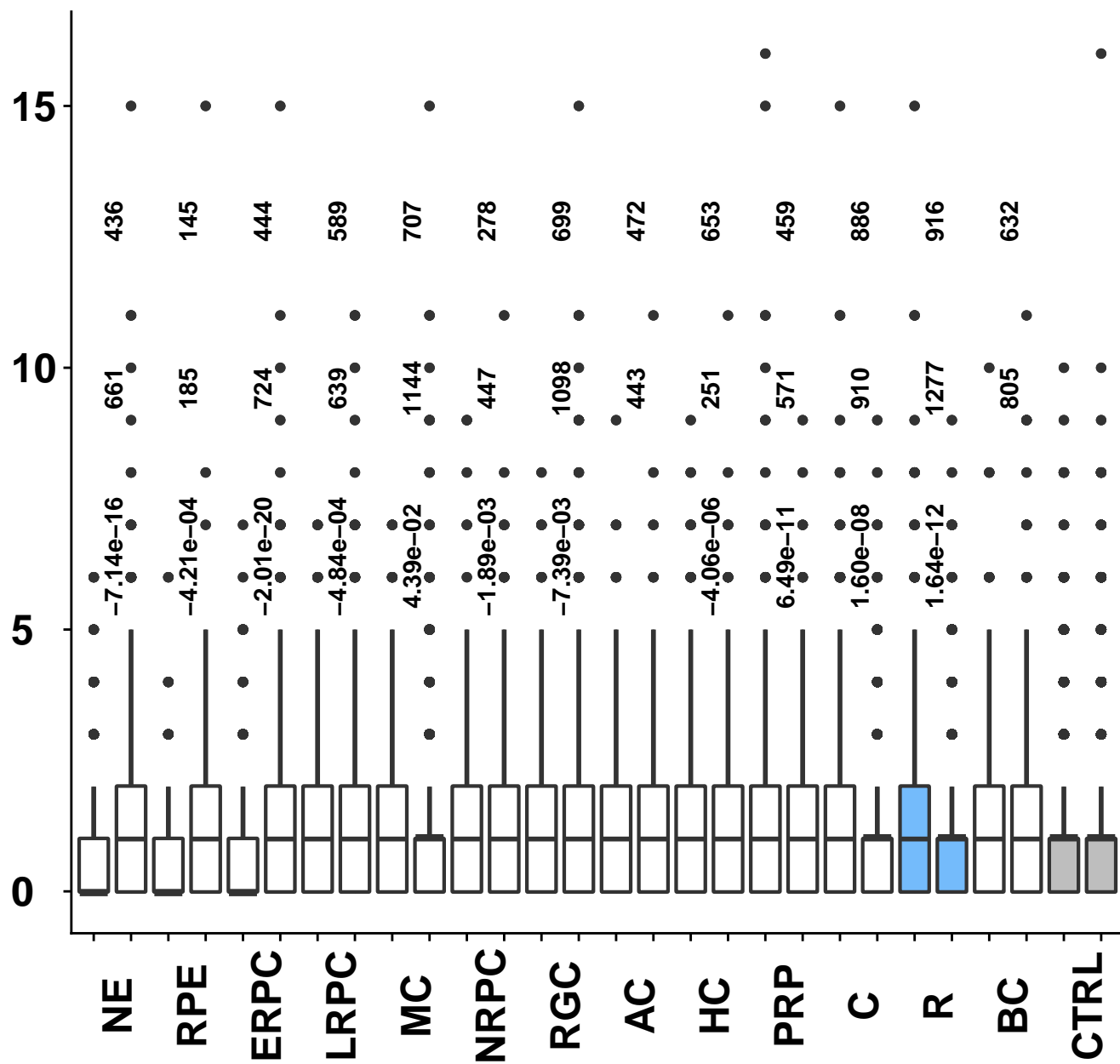
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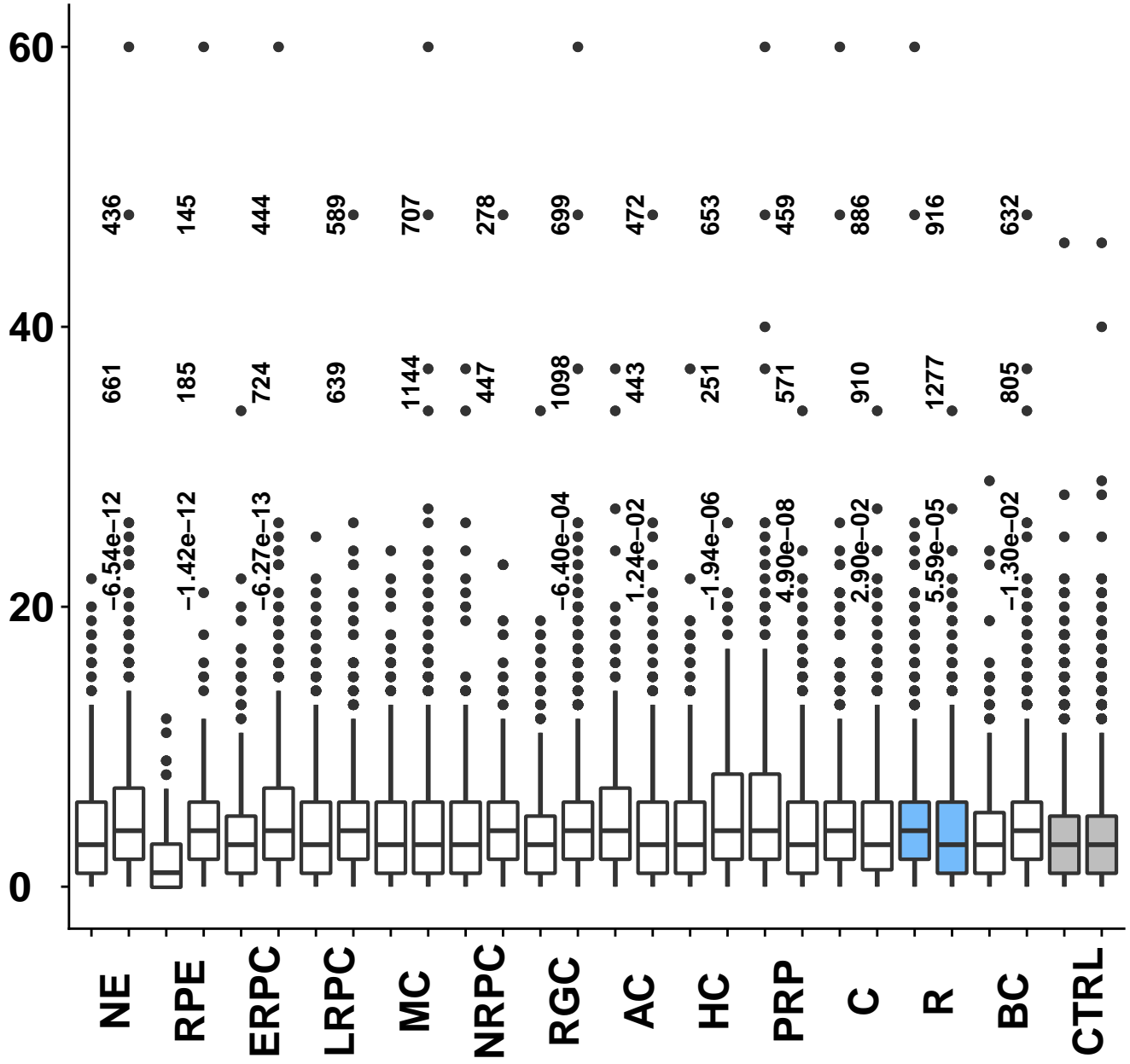
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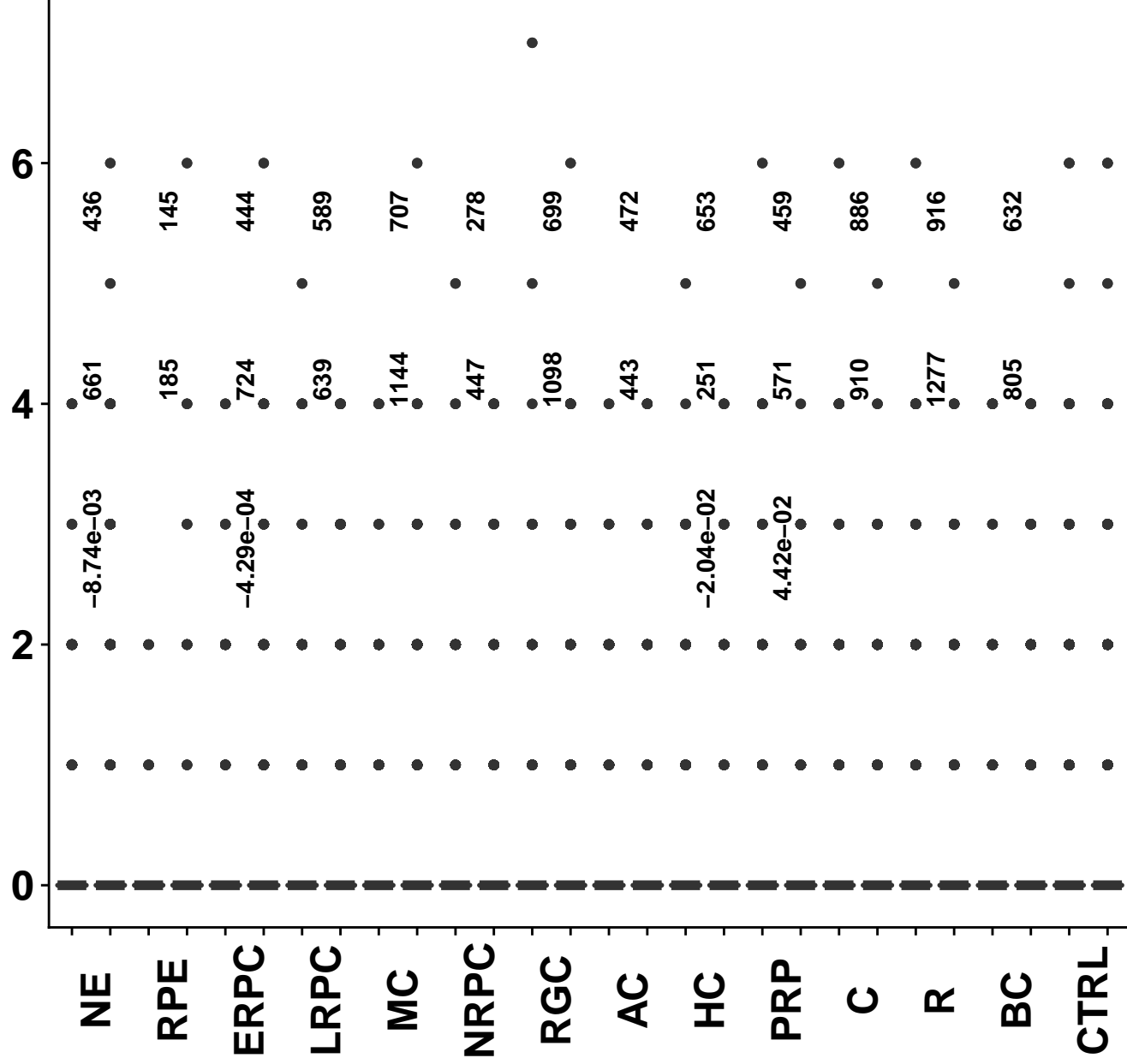
Zeb1_1_total



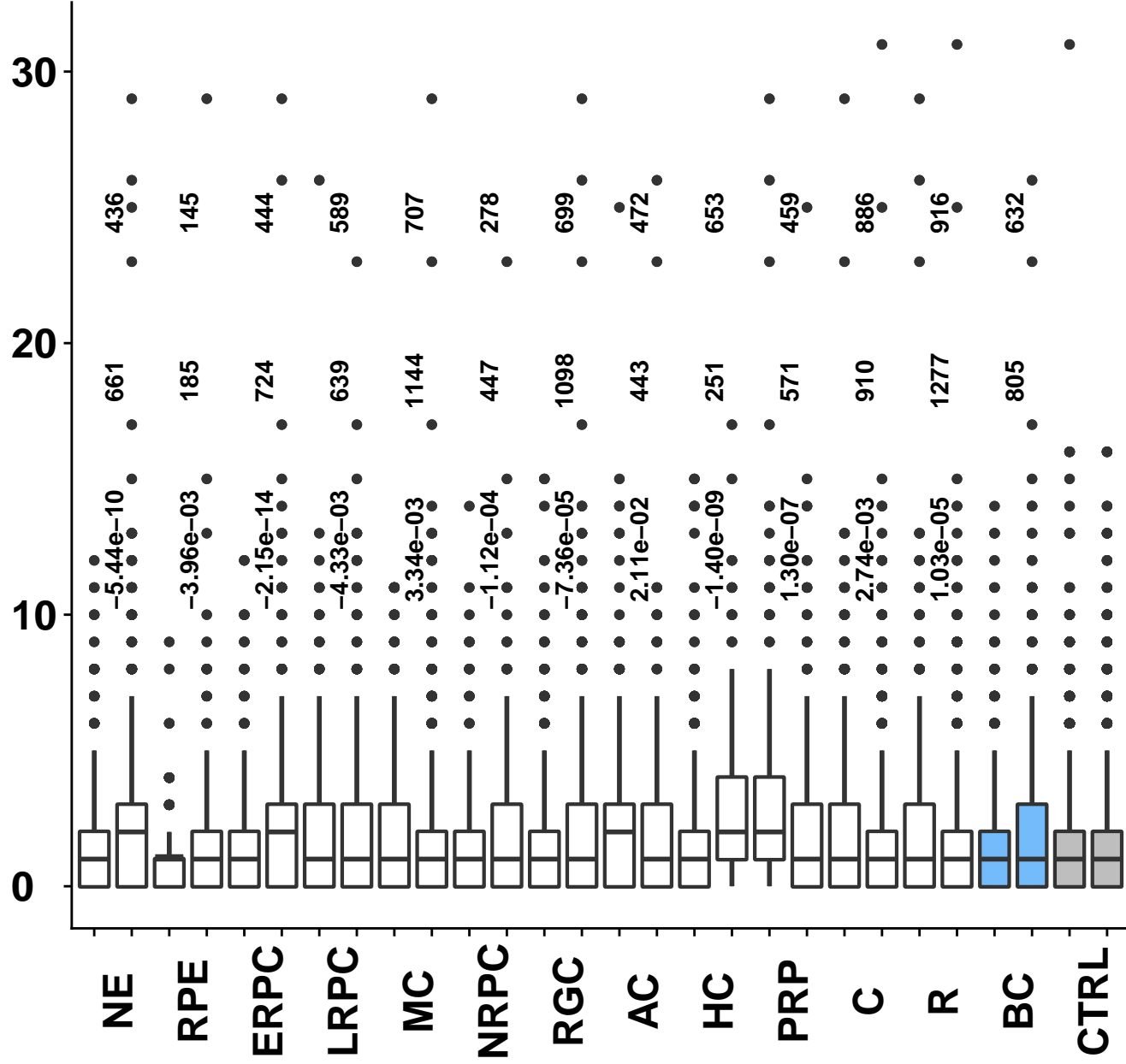
Zeb1_2_total



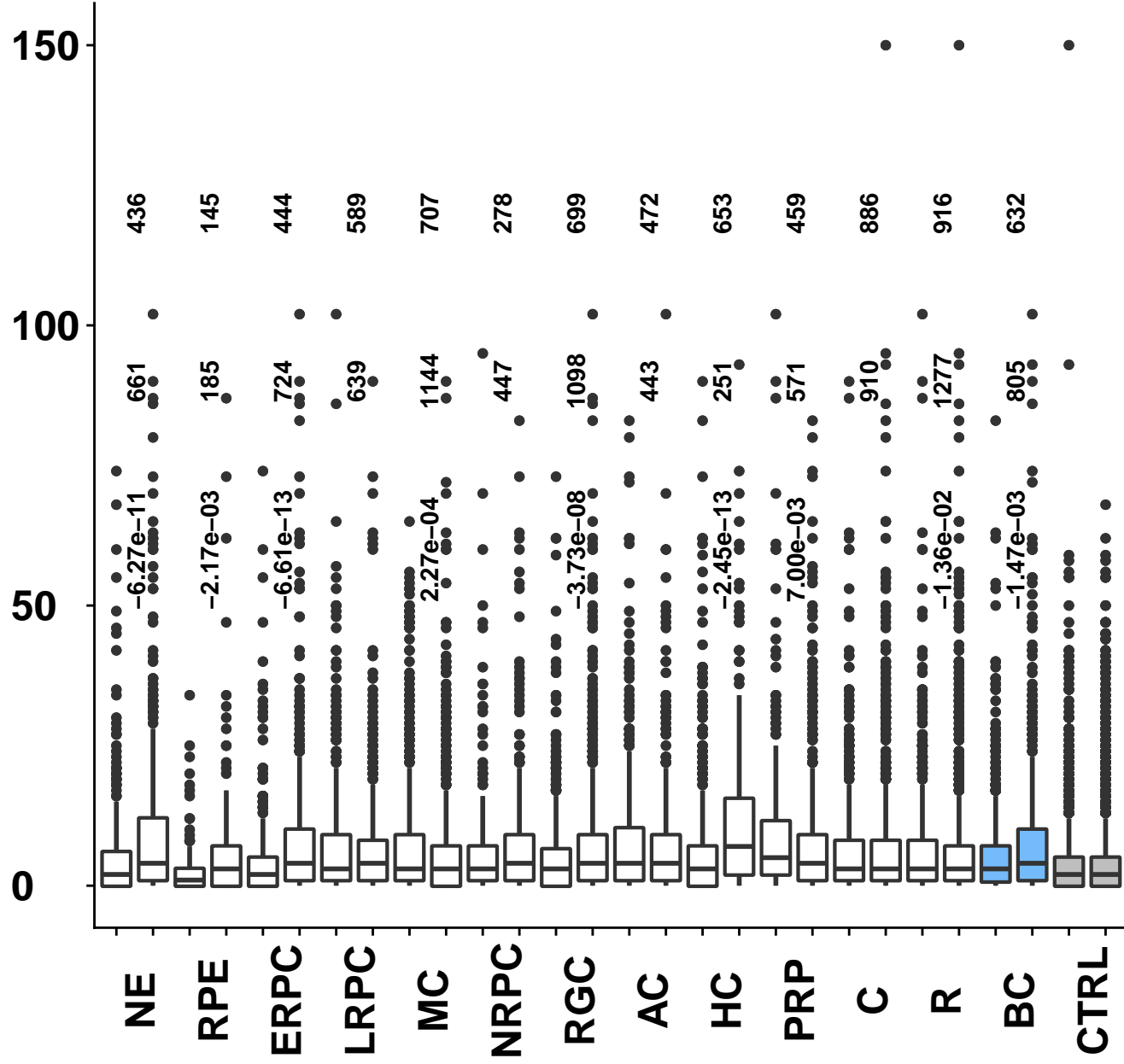
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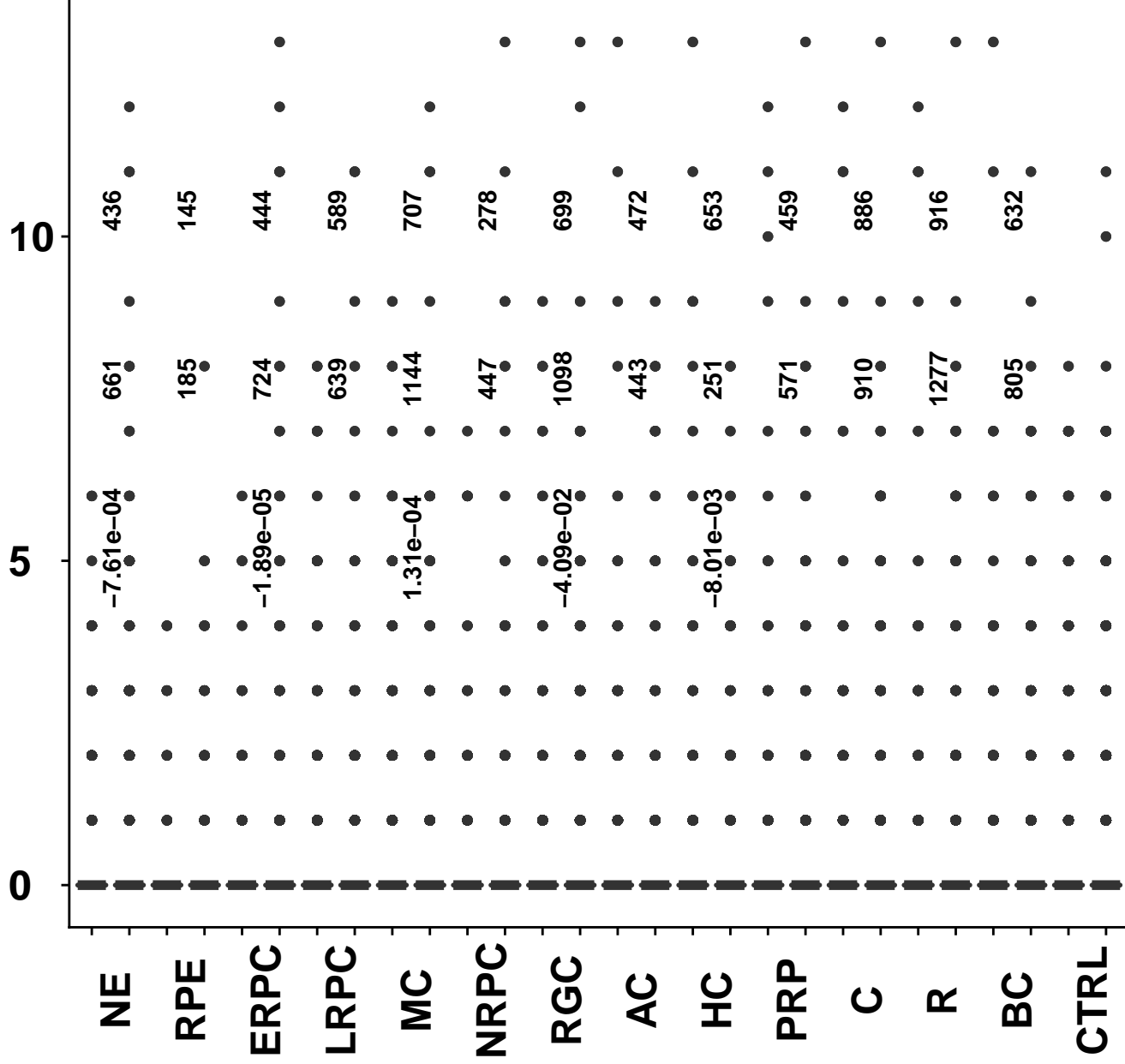
Tbx2_3_total



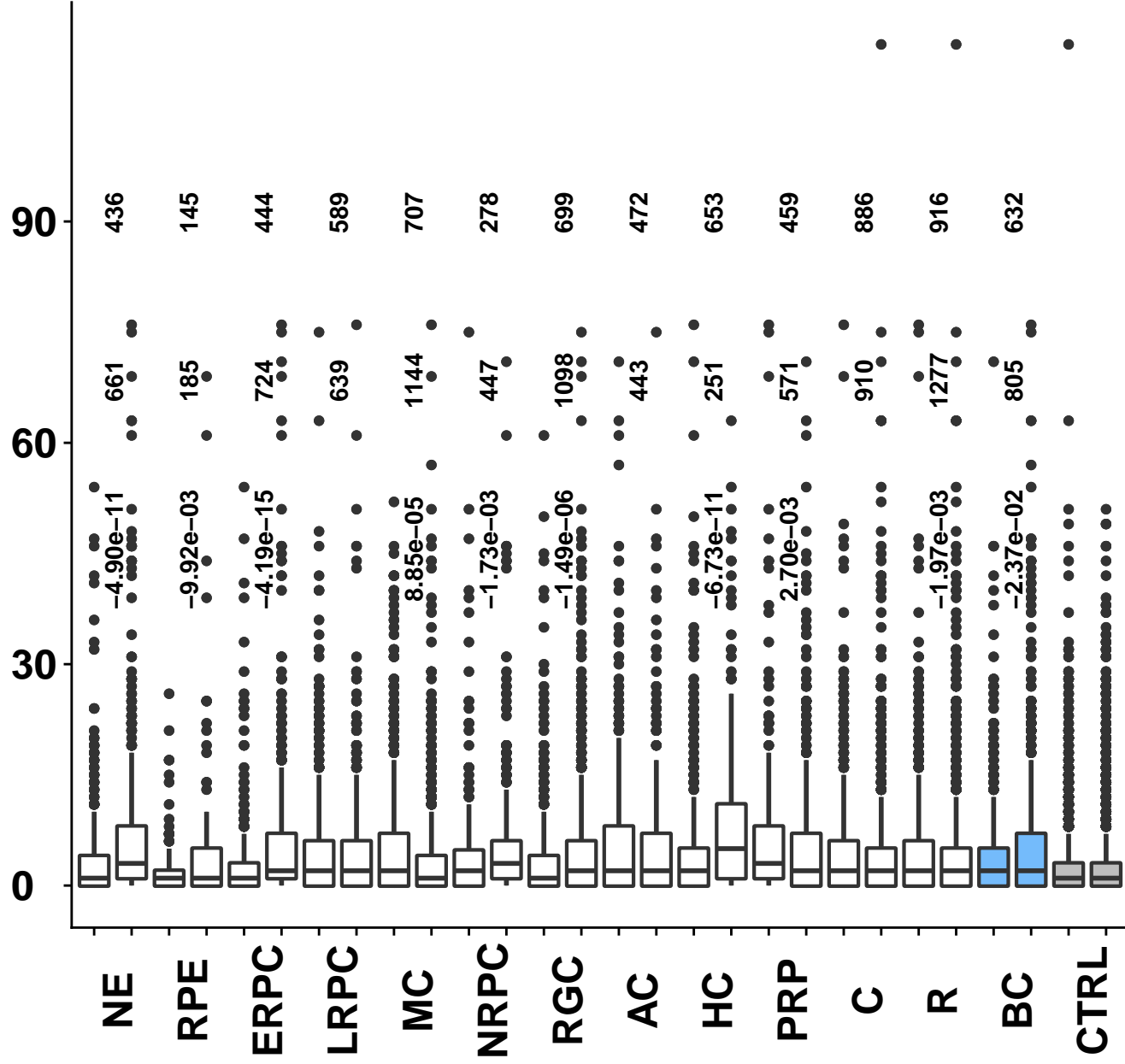
Vsx1_1_total



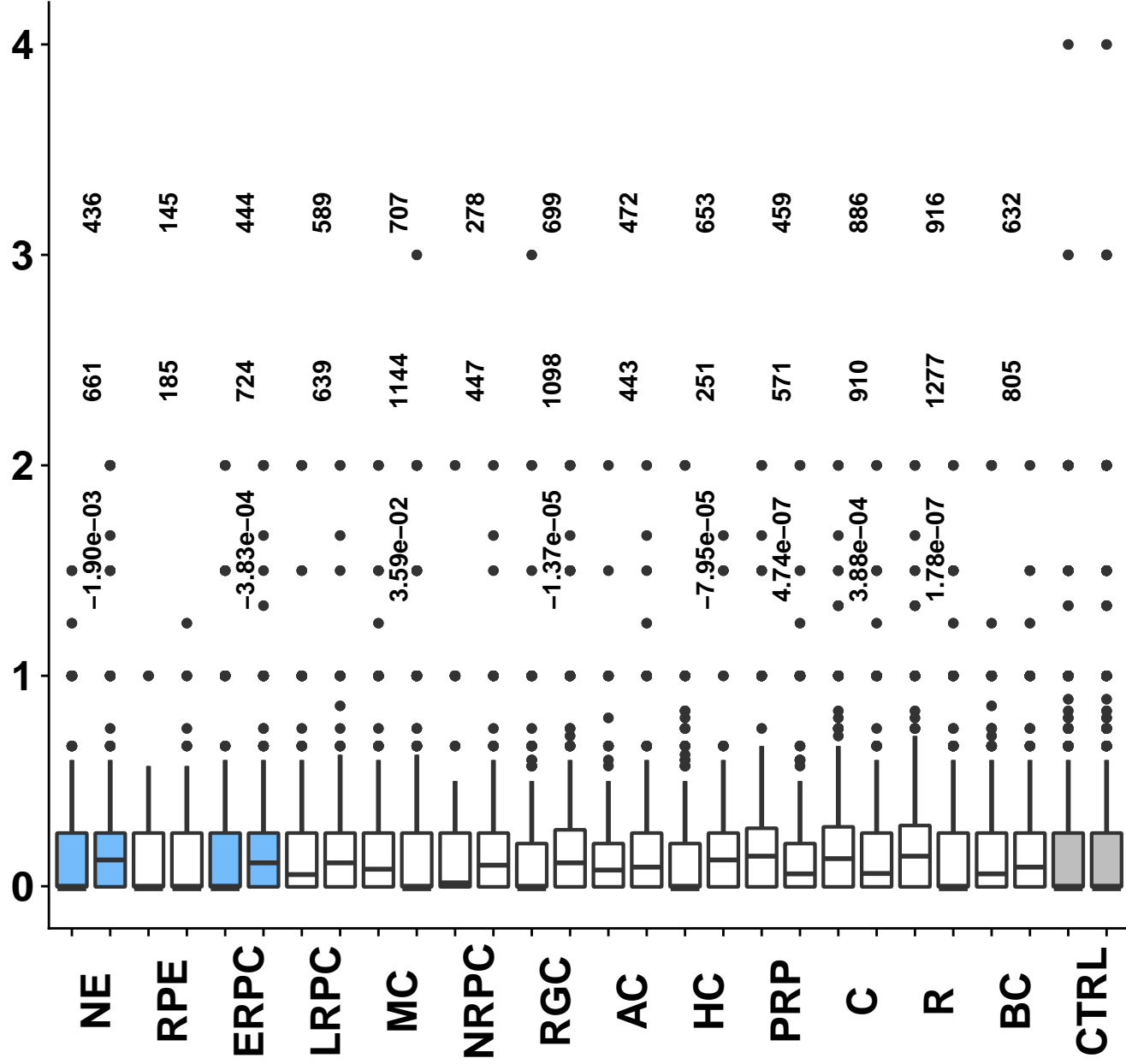
Vsx1_2_total



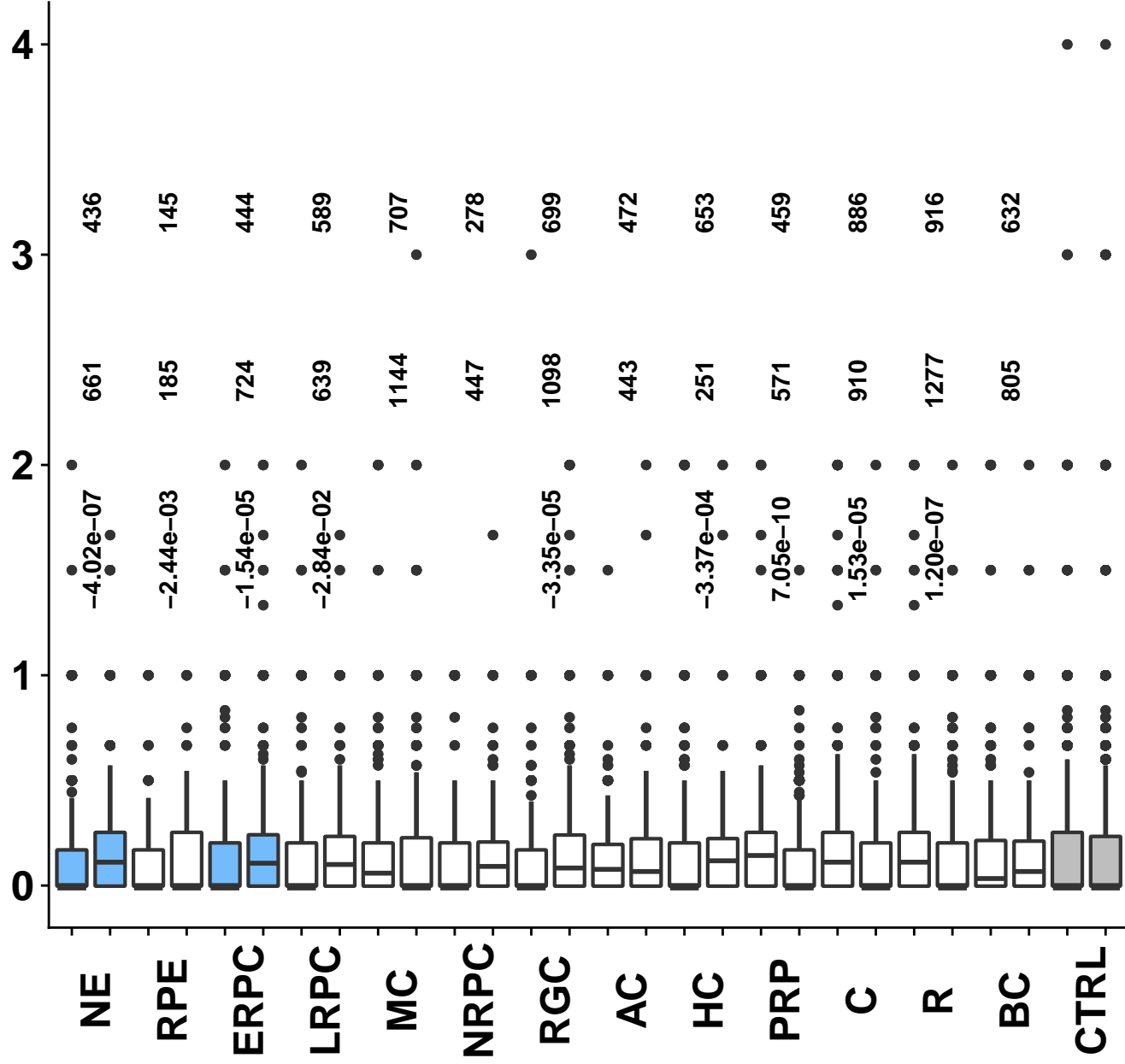
Vsx2_1_total



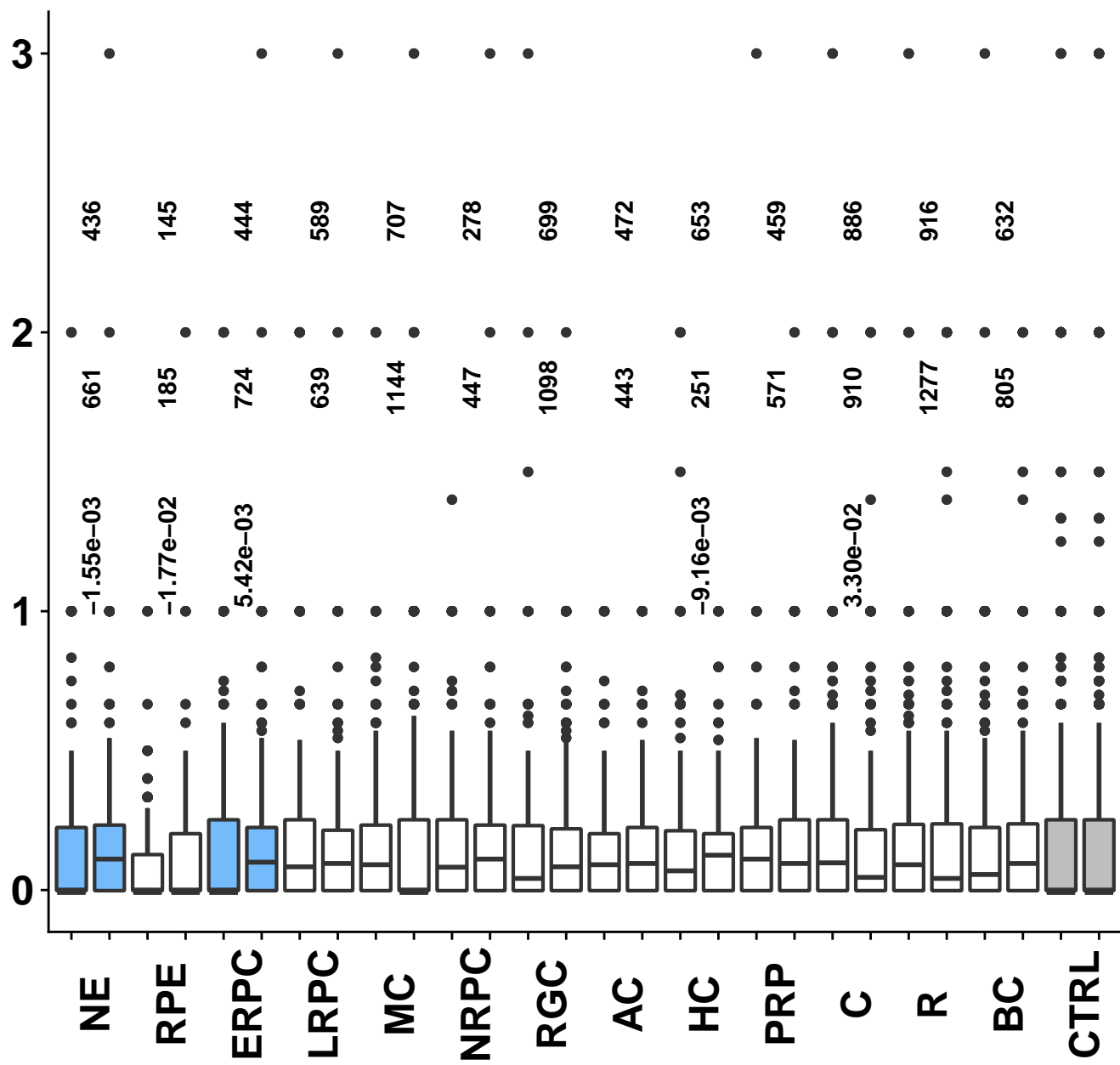
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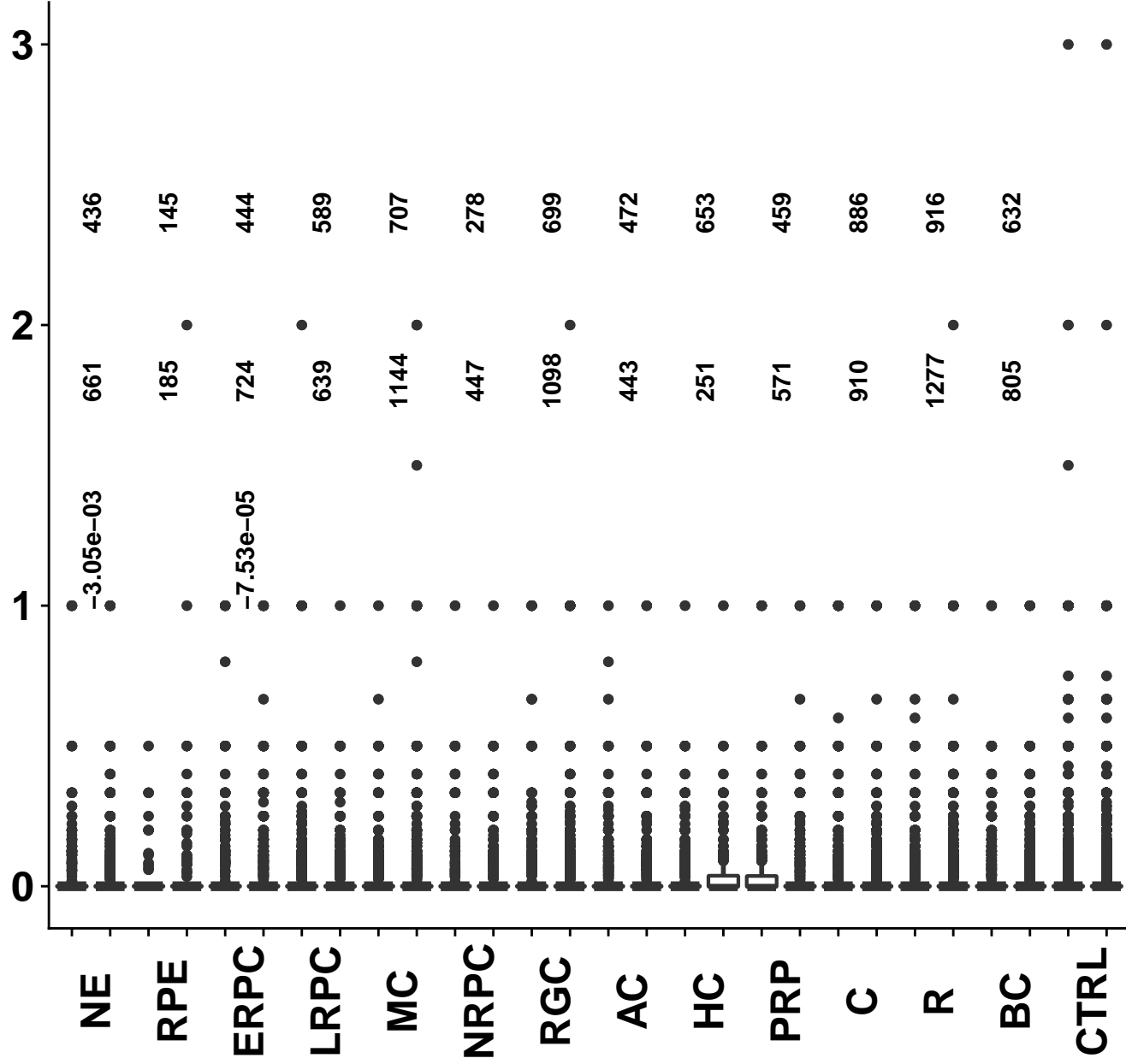
Nr2f1_2_mean



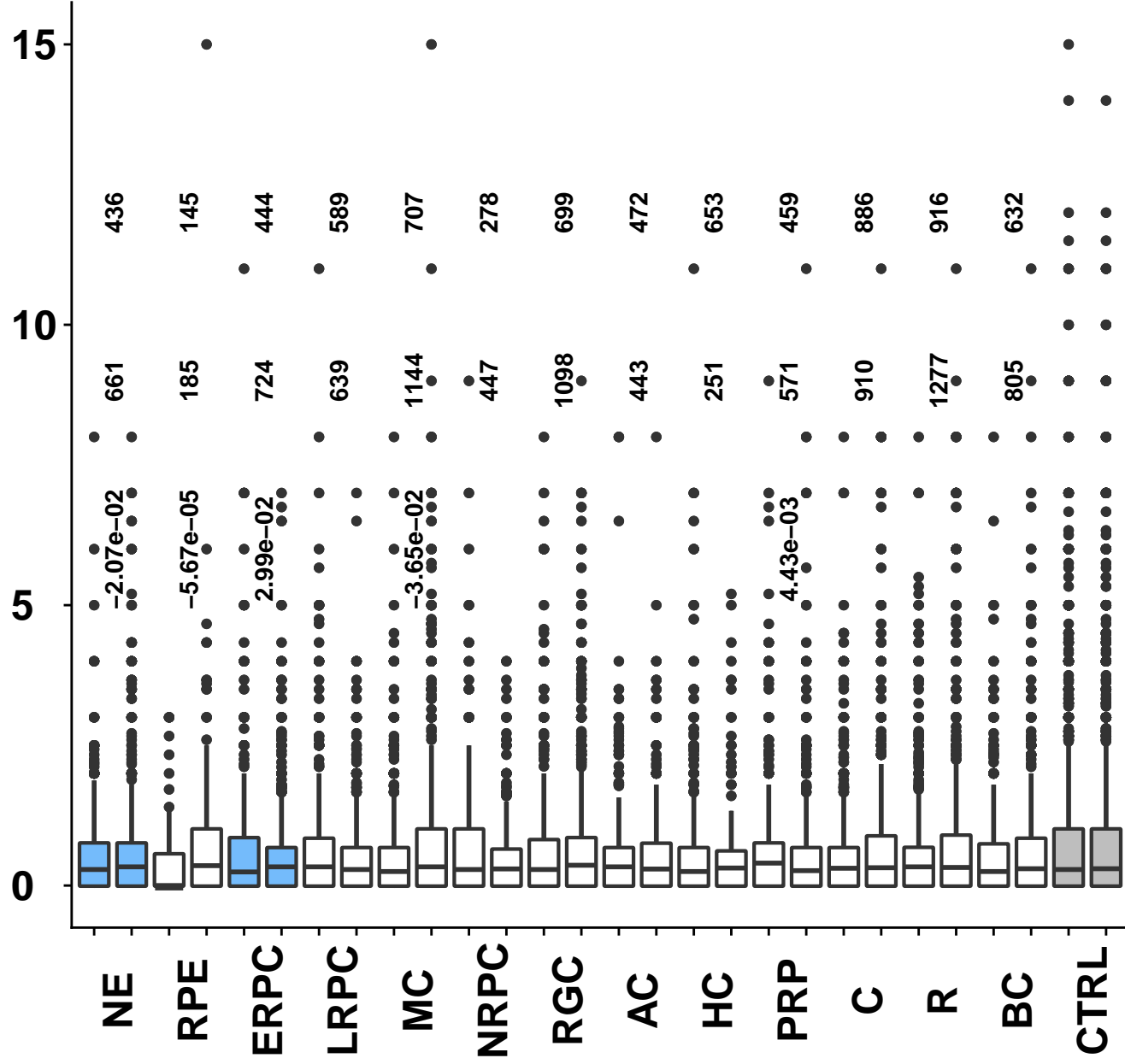
Zic1_1_mean



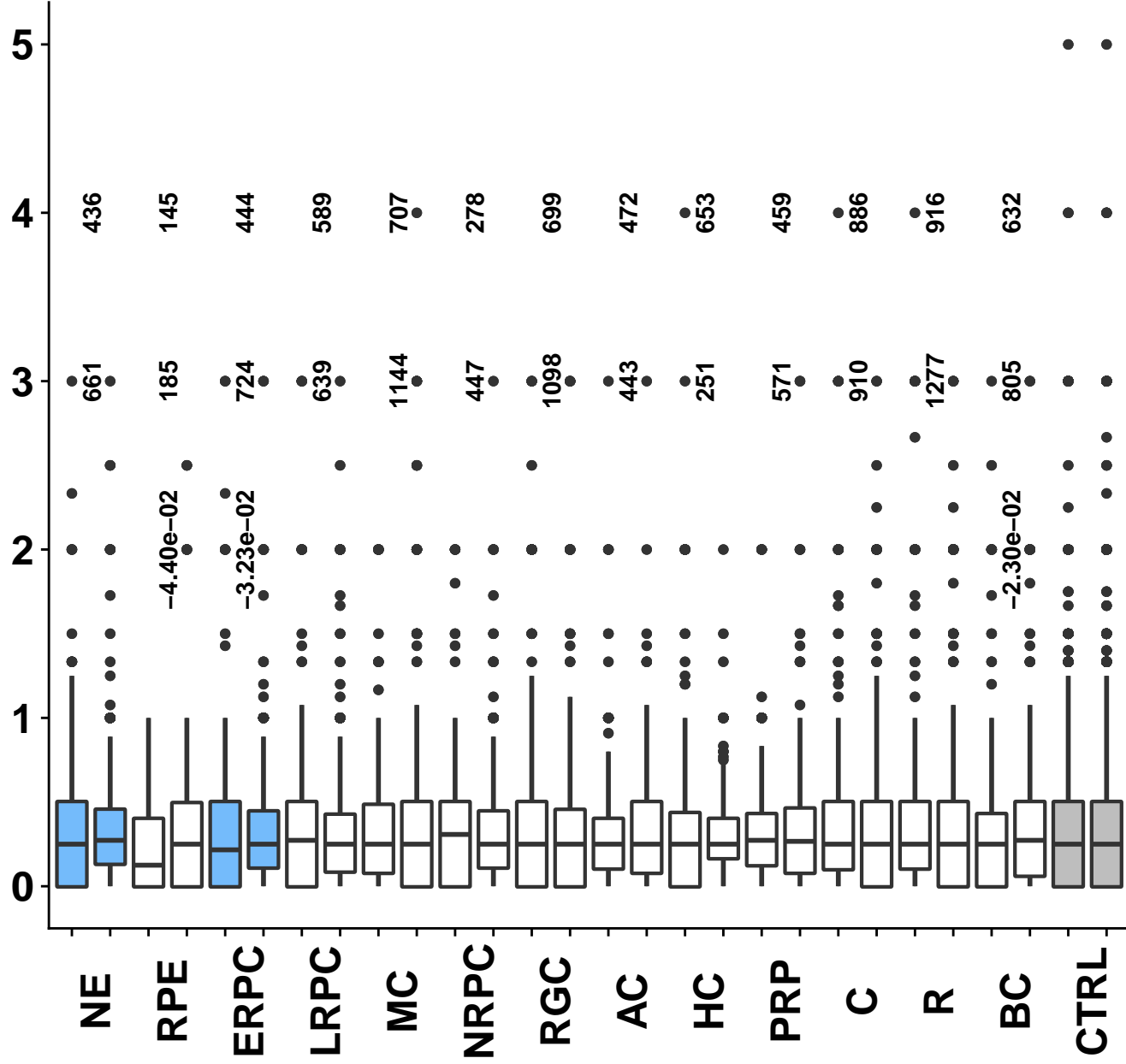
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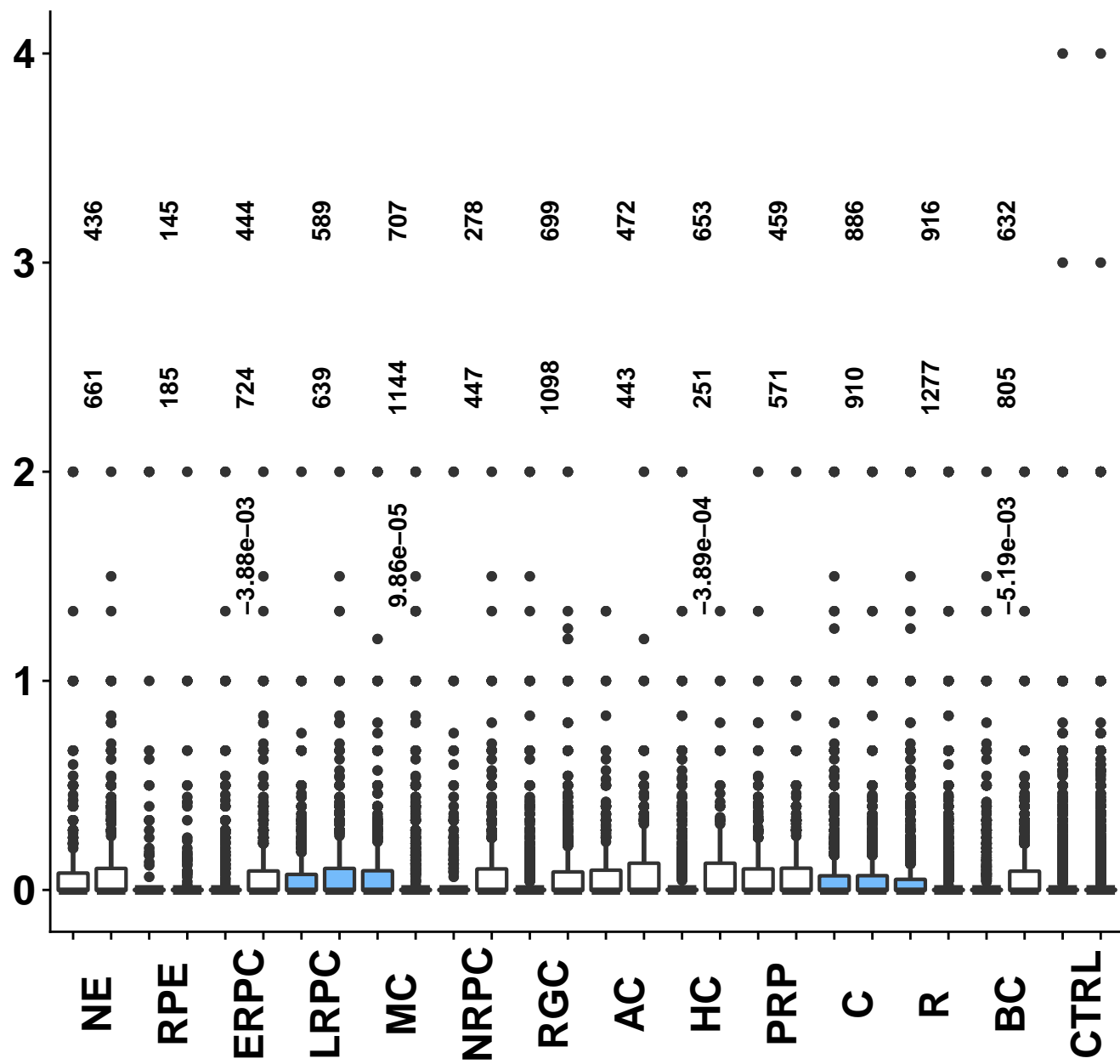
Zic1_3_mean



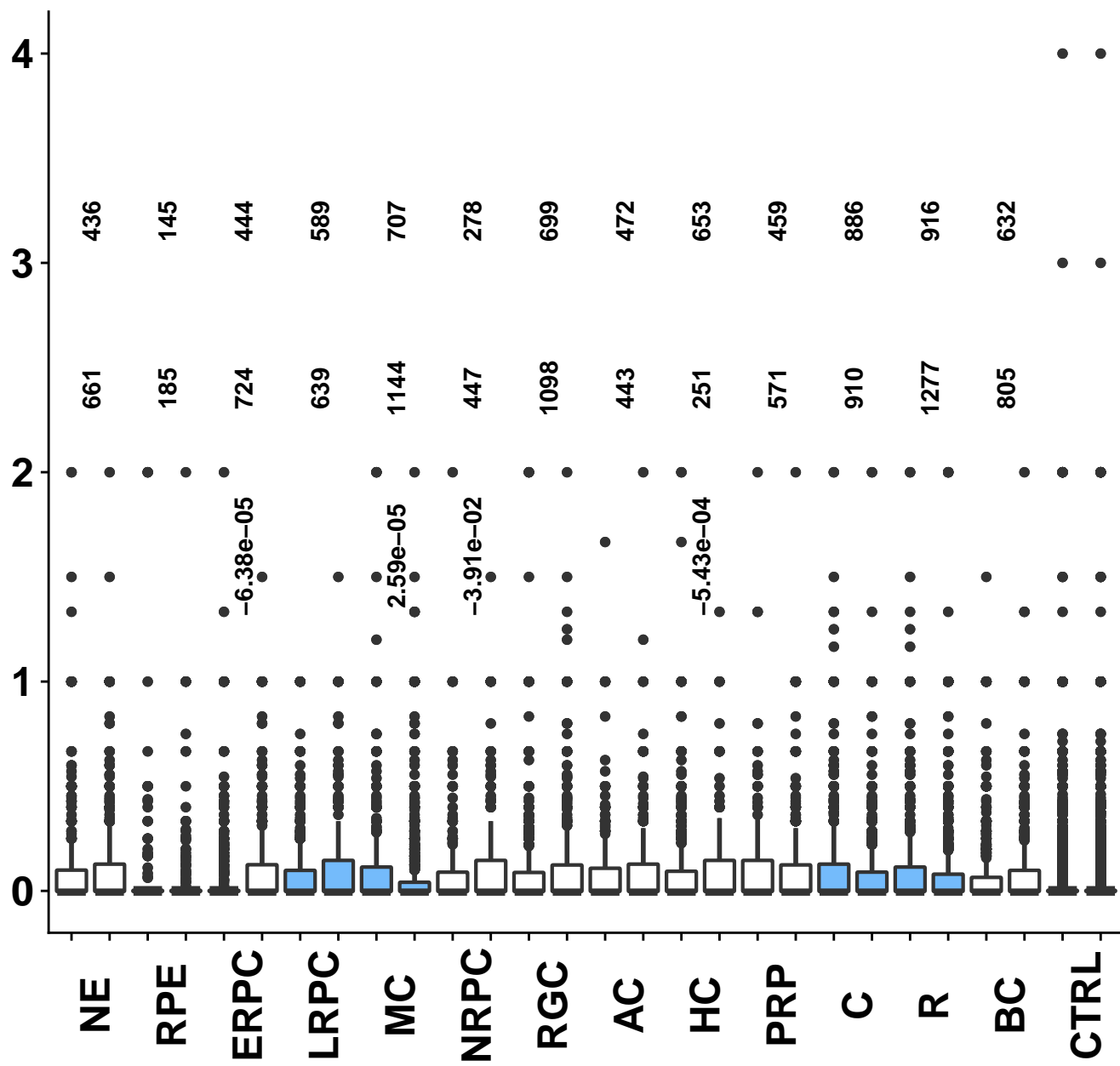
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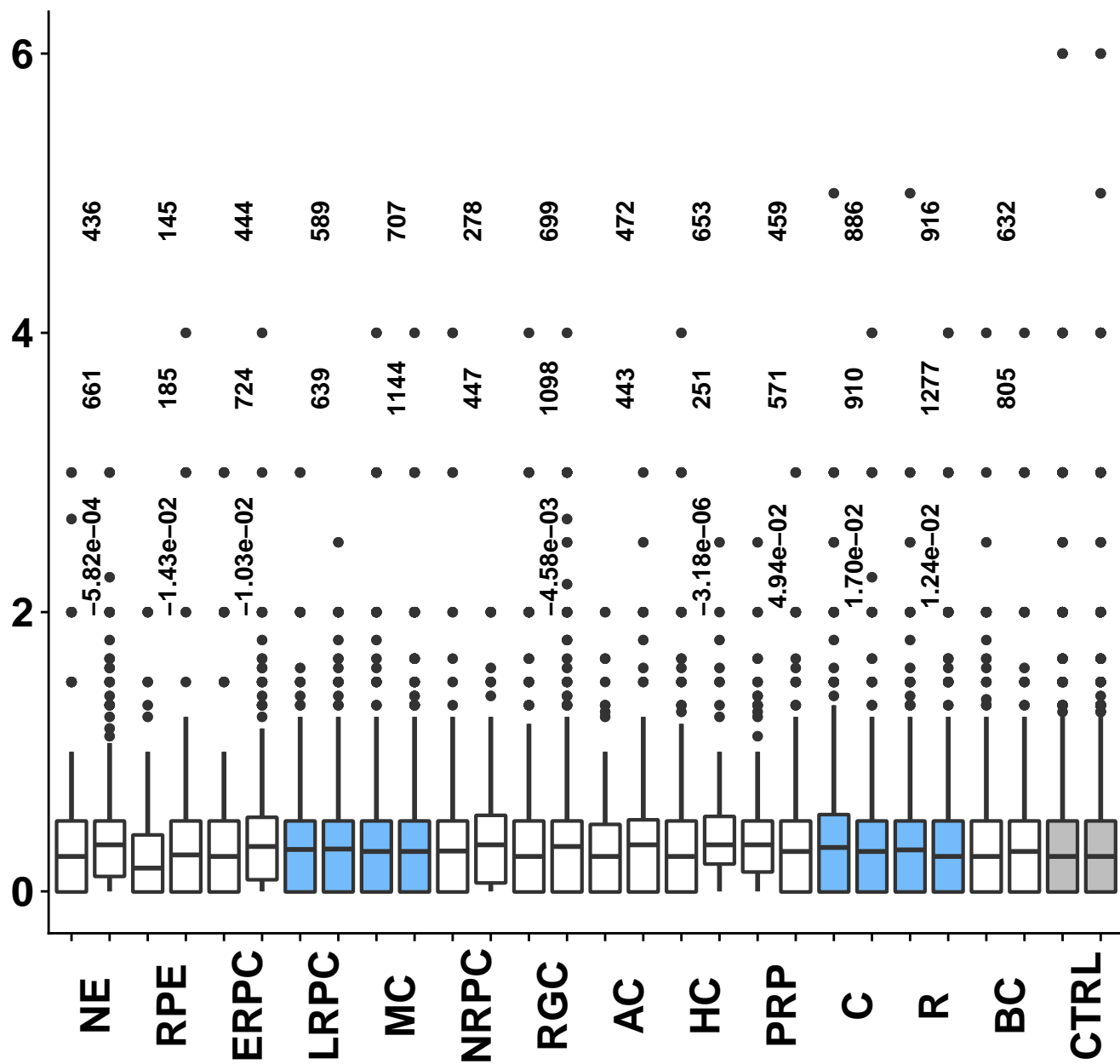
Junb_1_mean



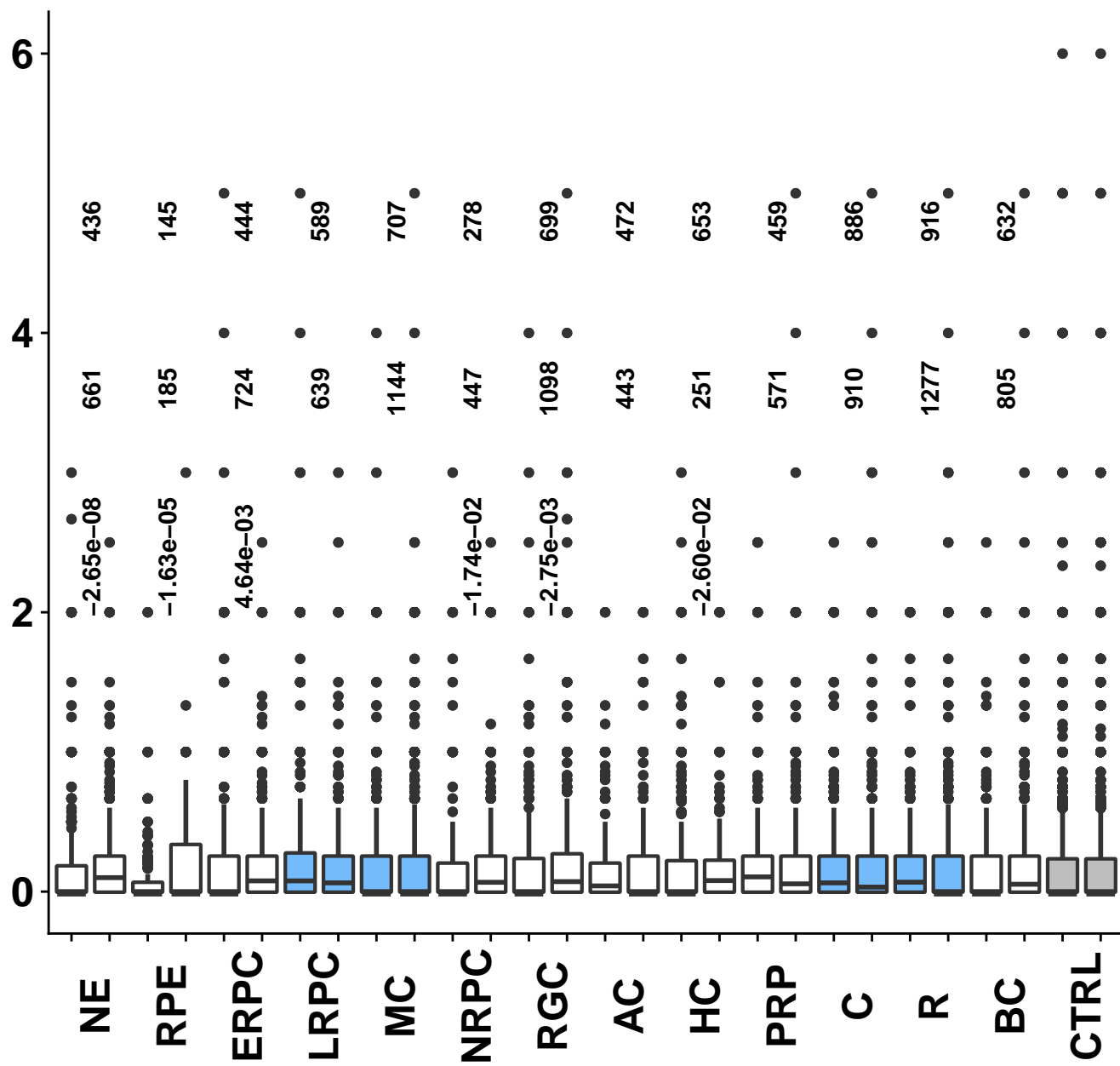
Junb_2_mean



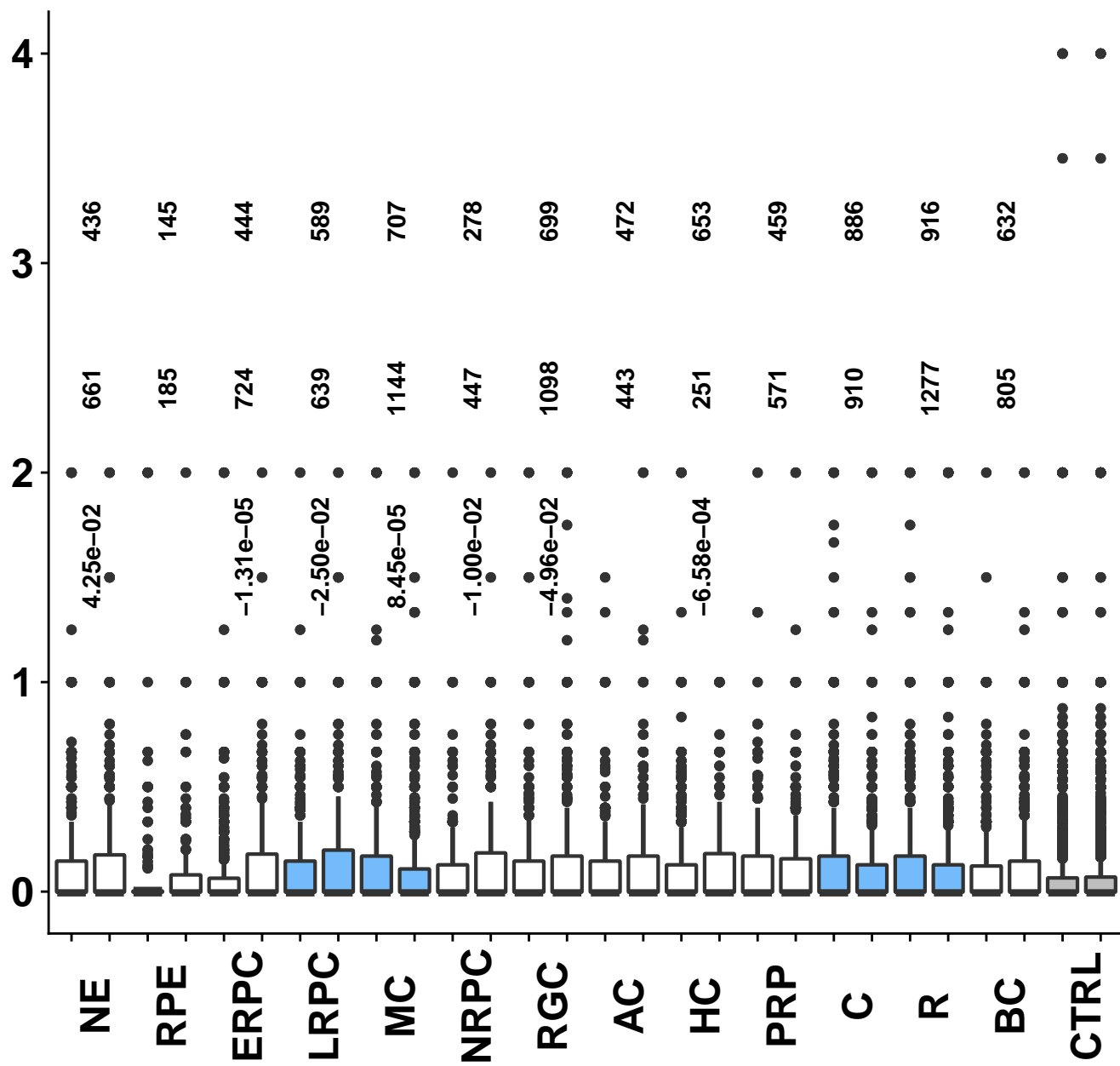
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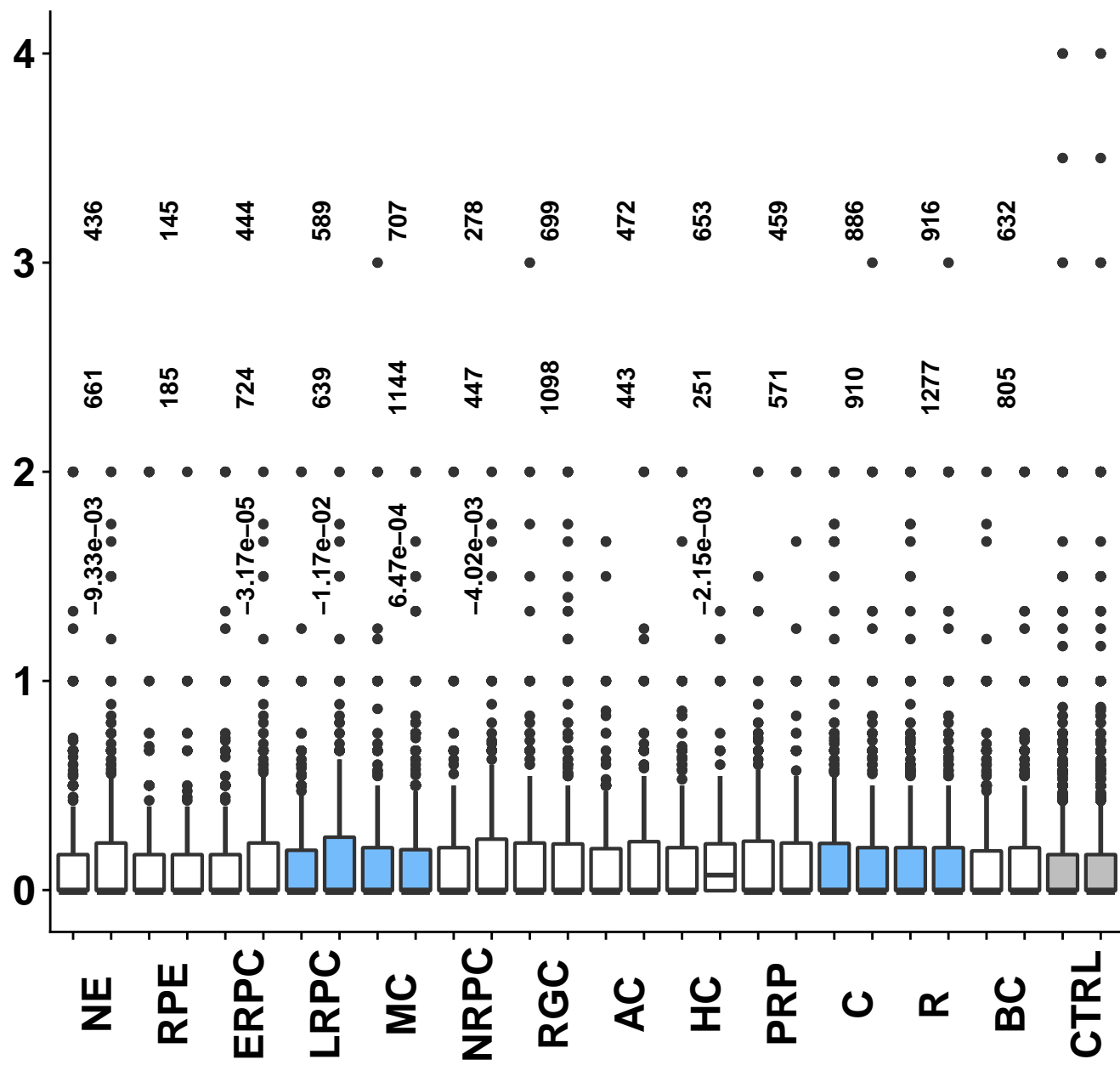
Junb_4_mean



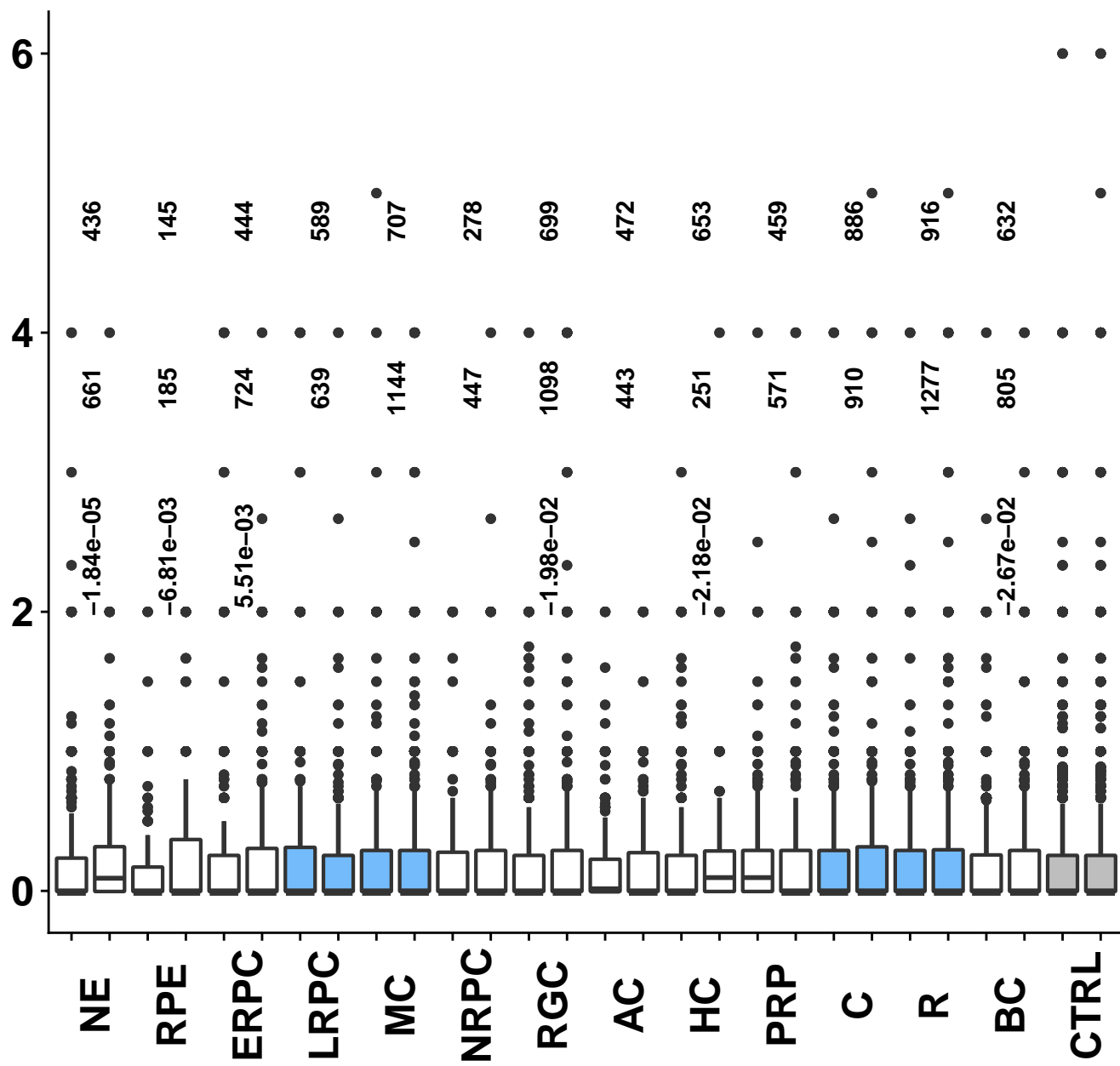
Junb_5_mean



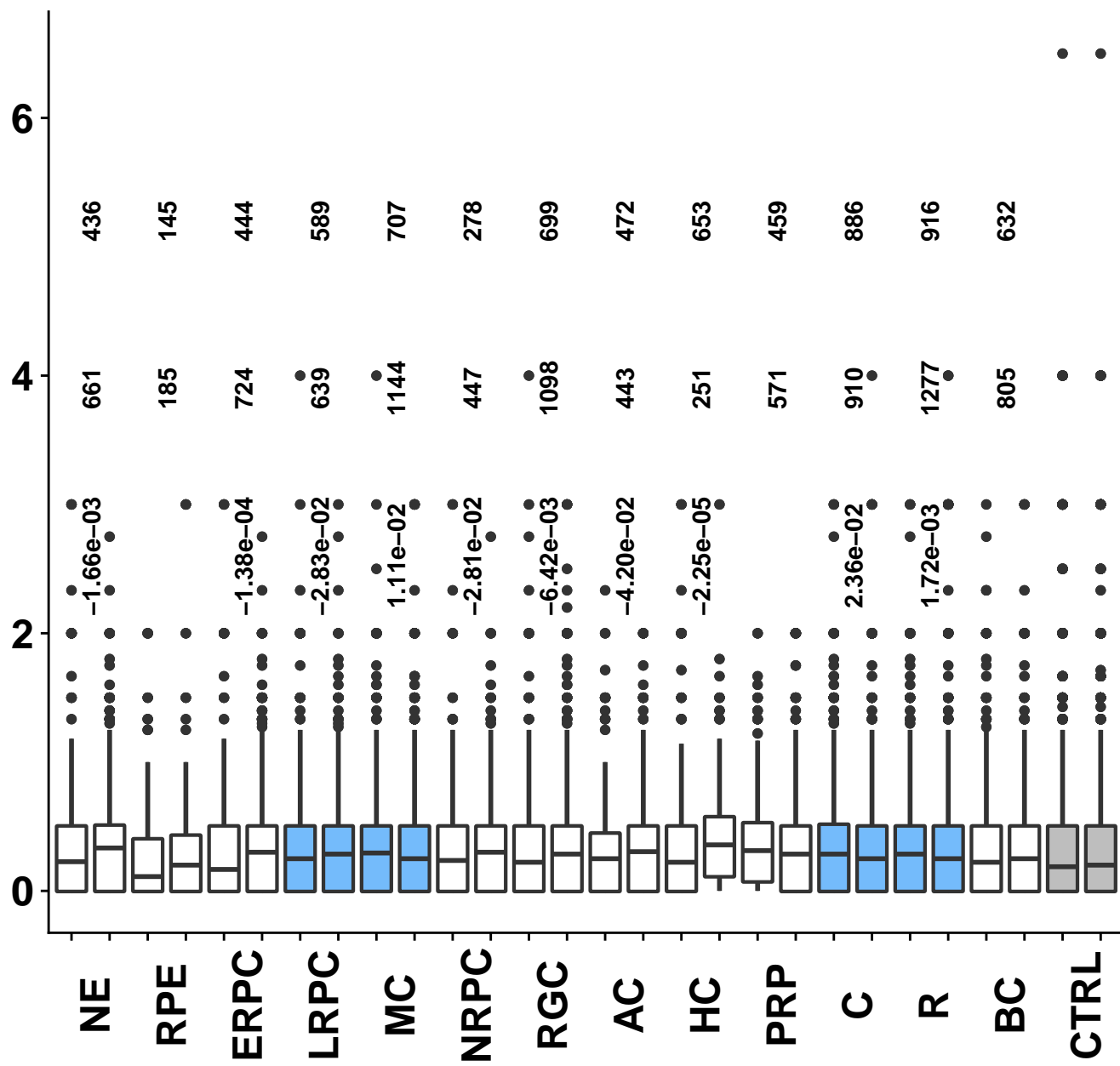
Junb_6_mean



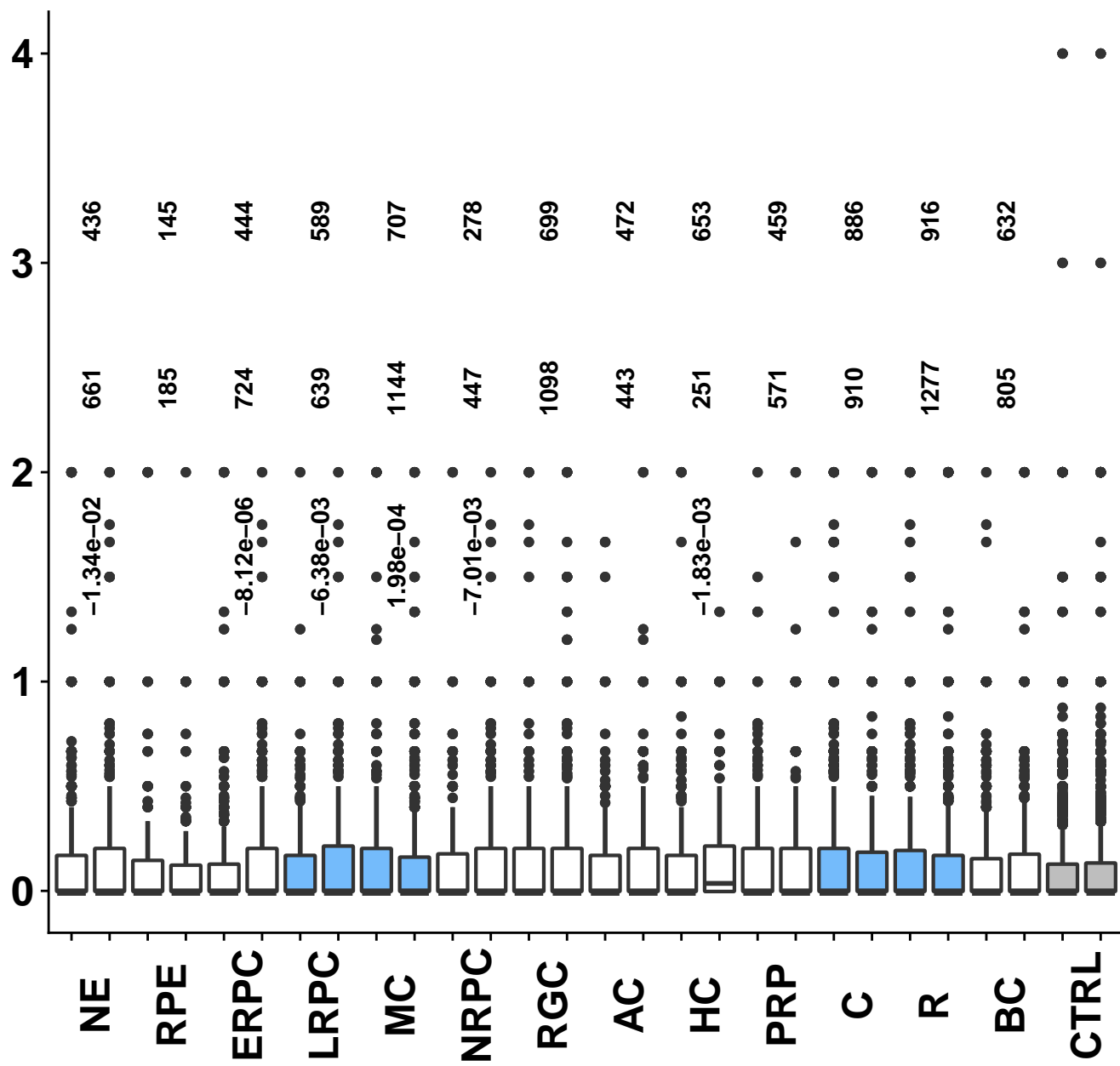
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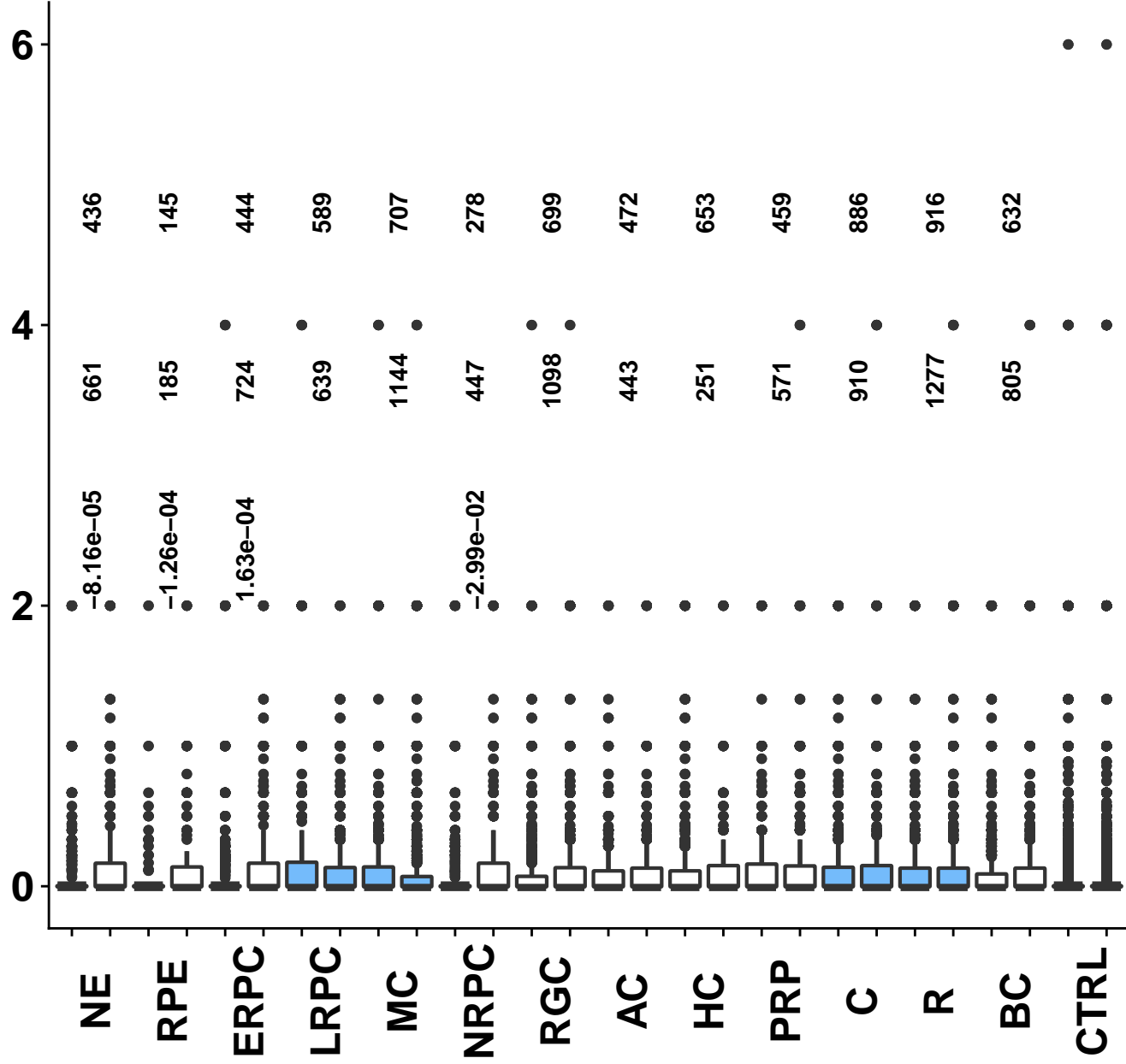
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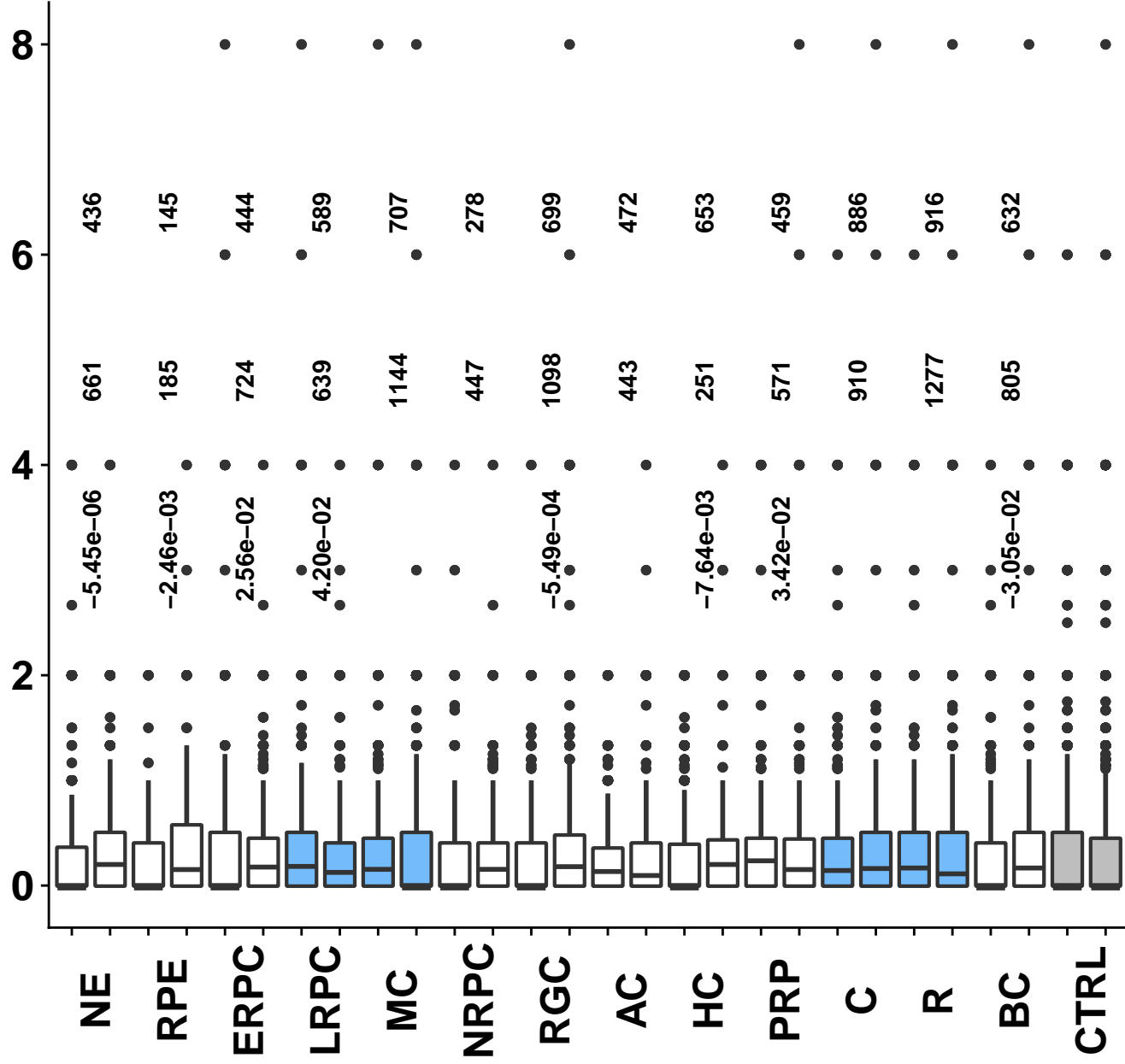
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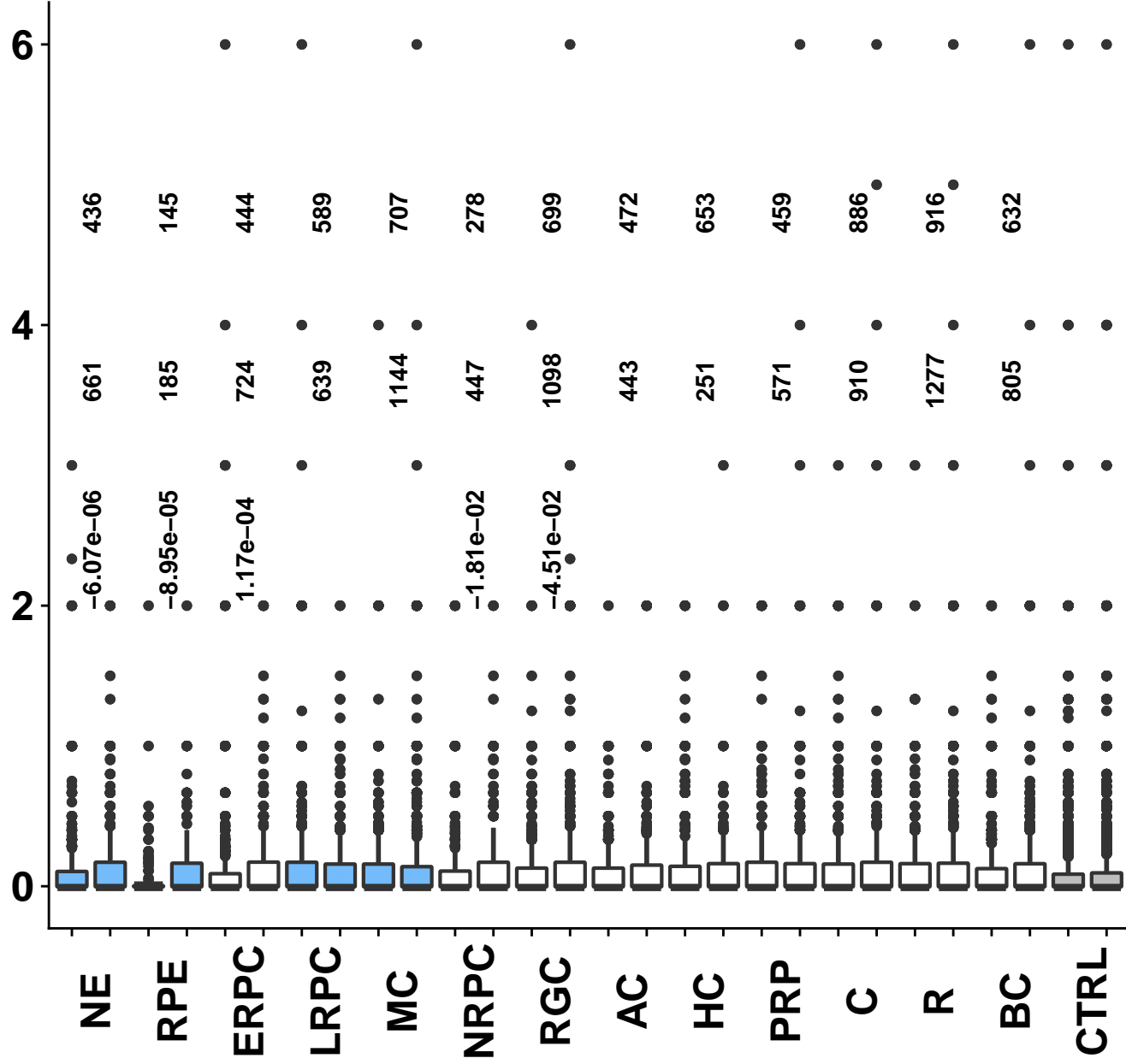
Junb_10_mean



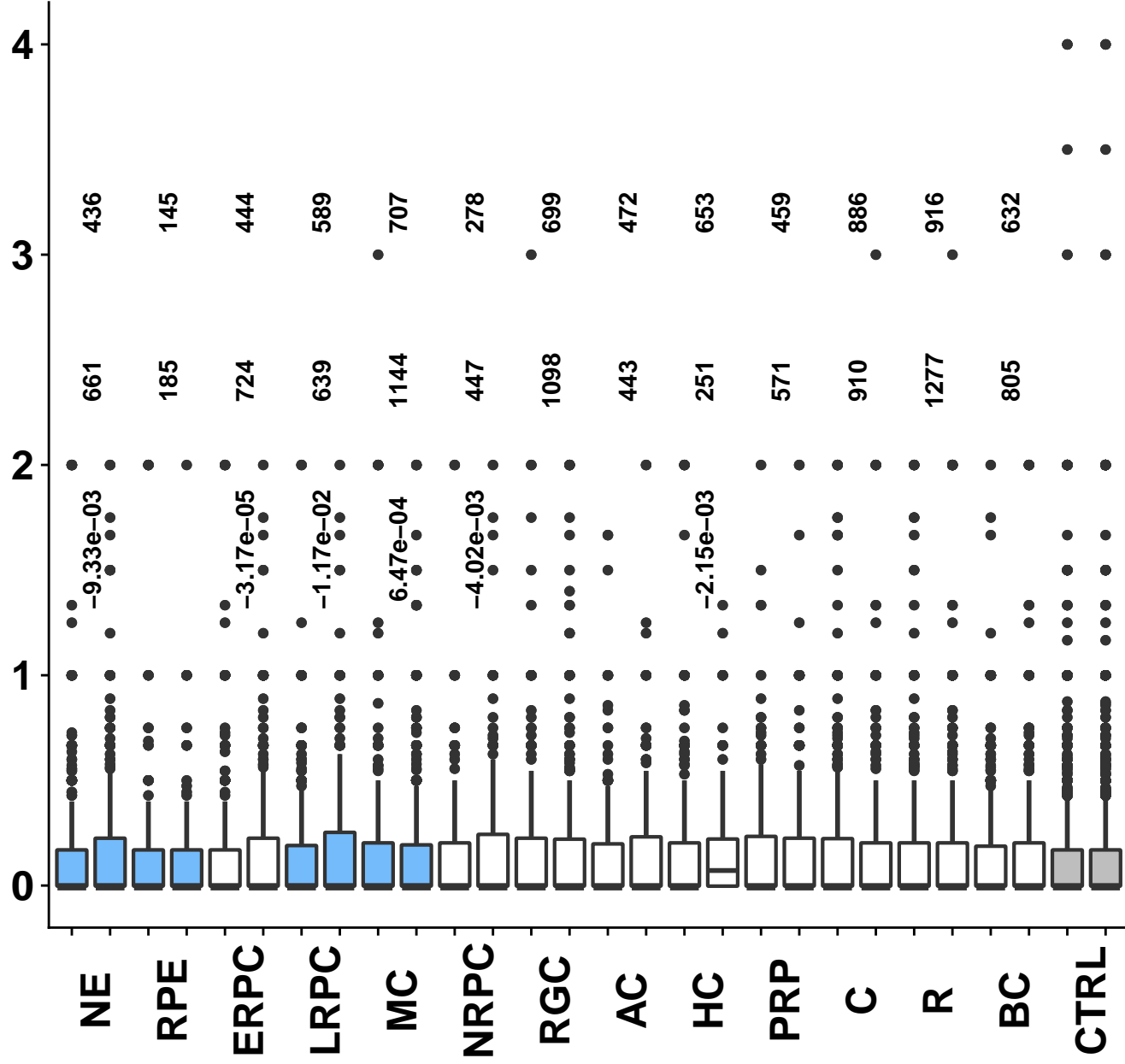
Junb_11_mean



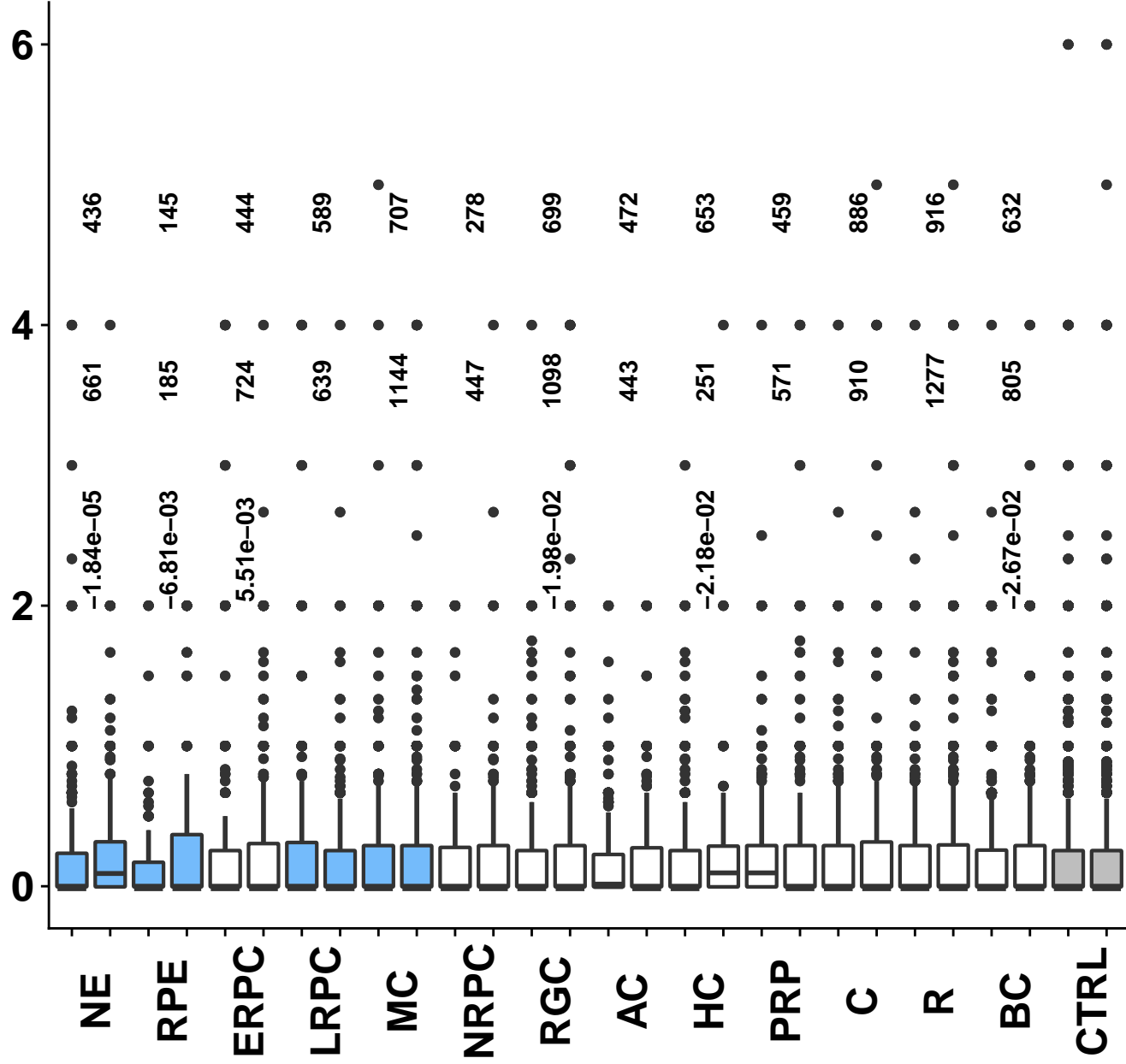
Fosb_1_mean



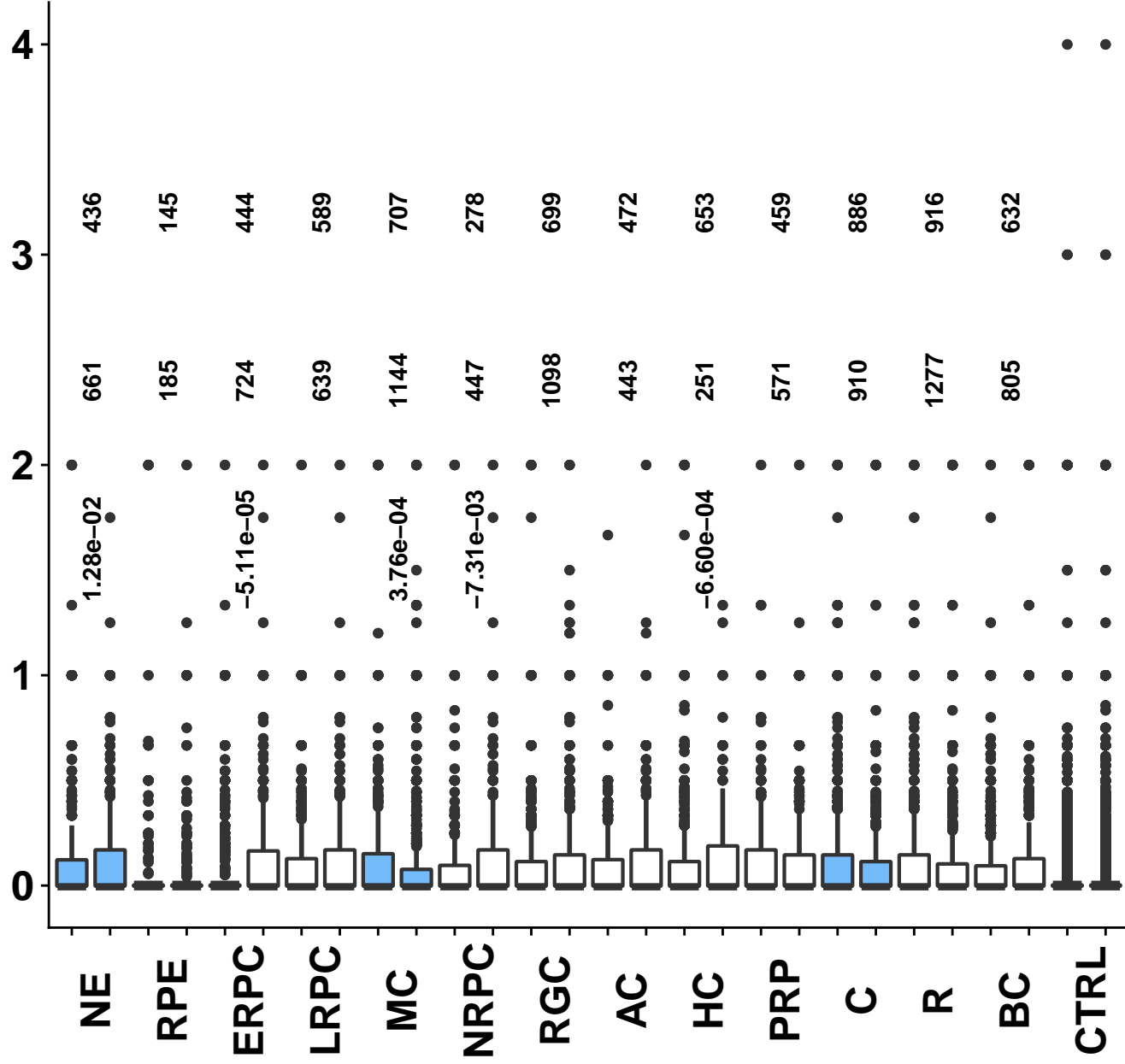
Fosb_2_mean



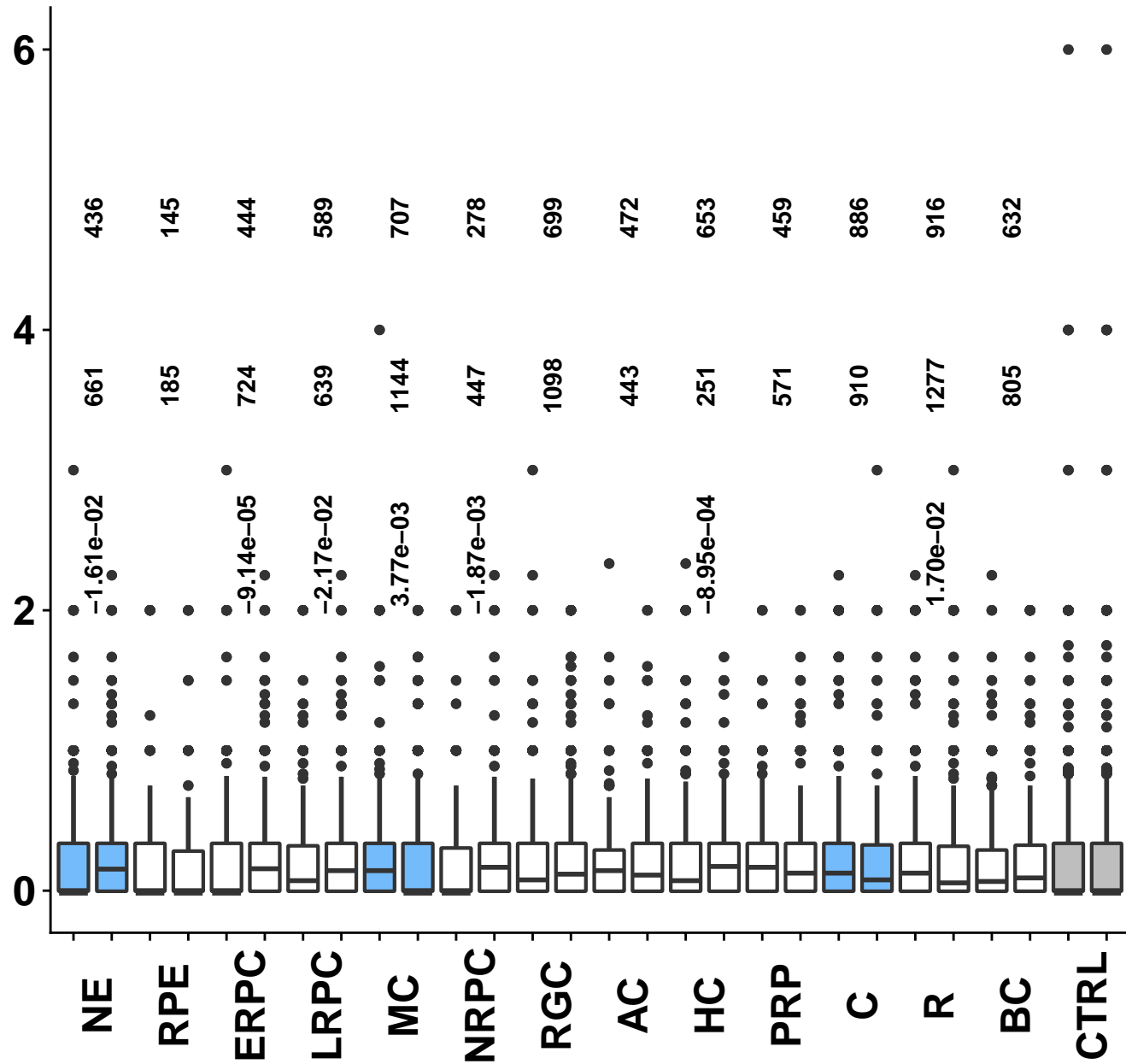
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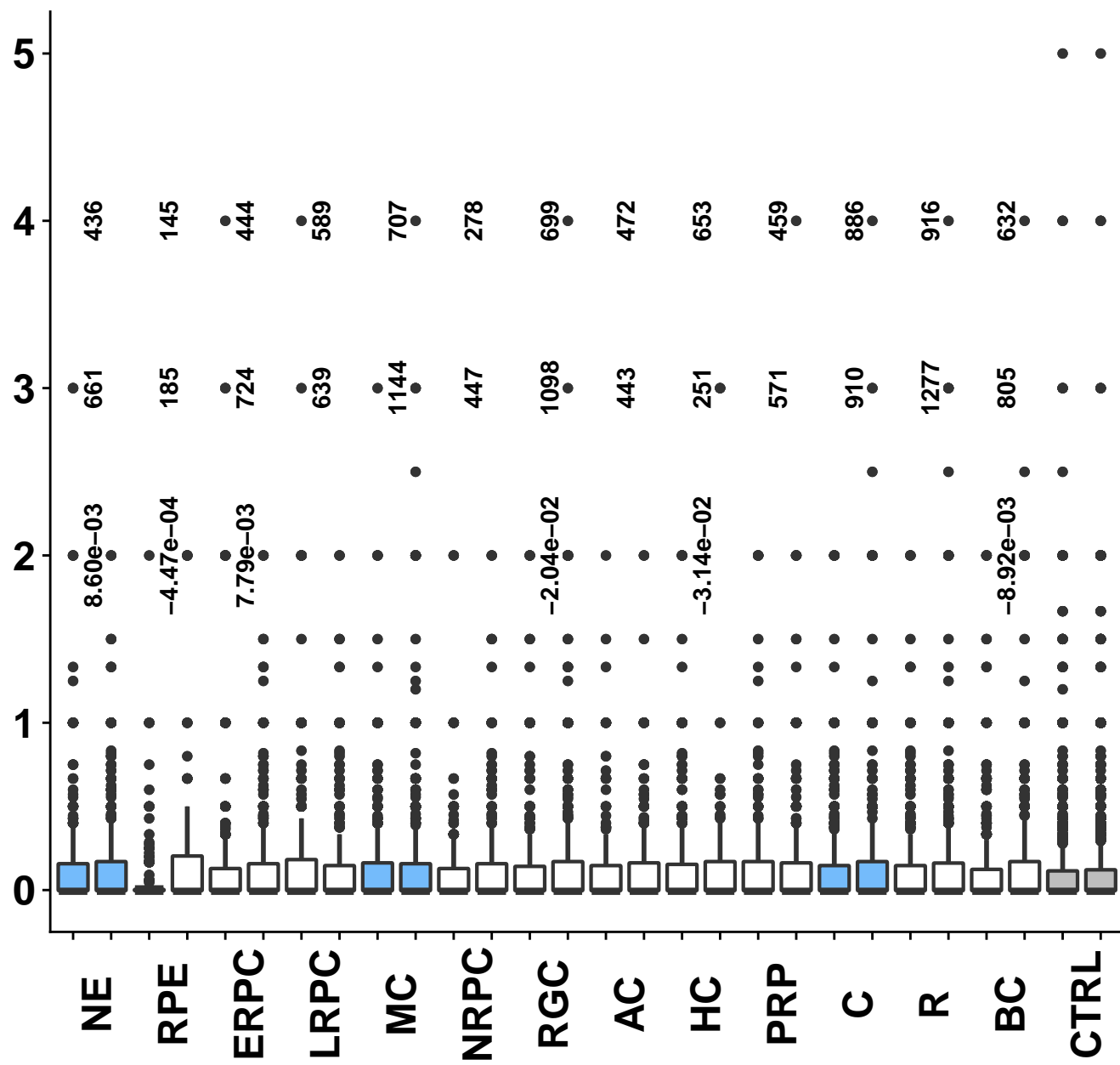
Fos_4_mean



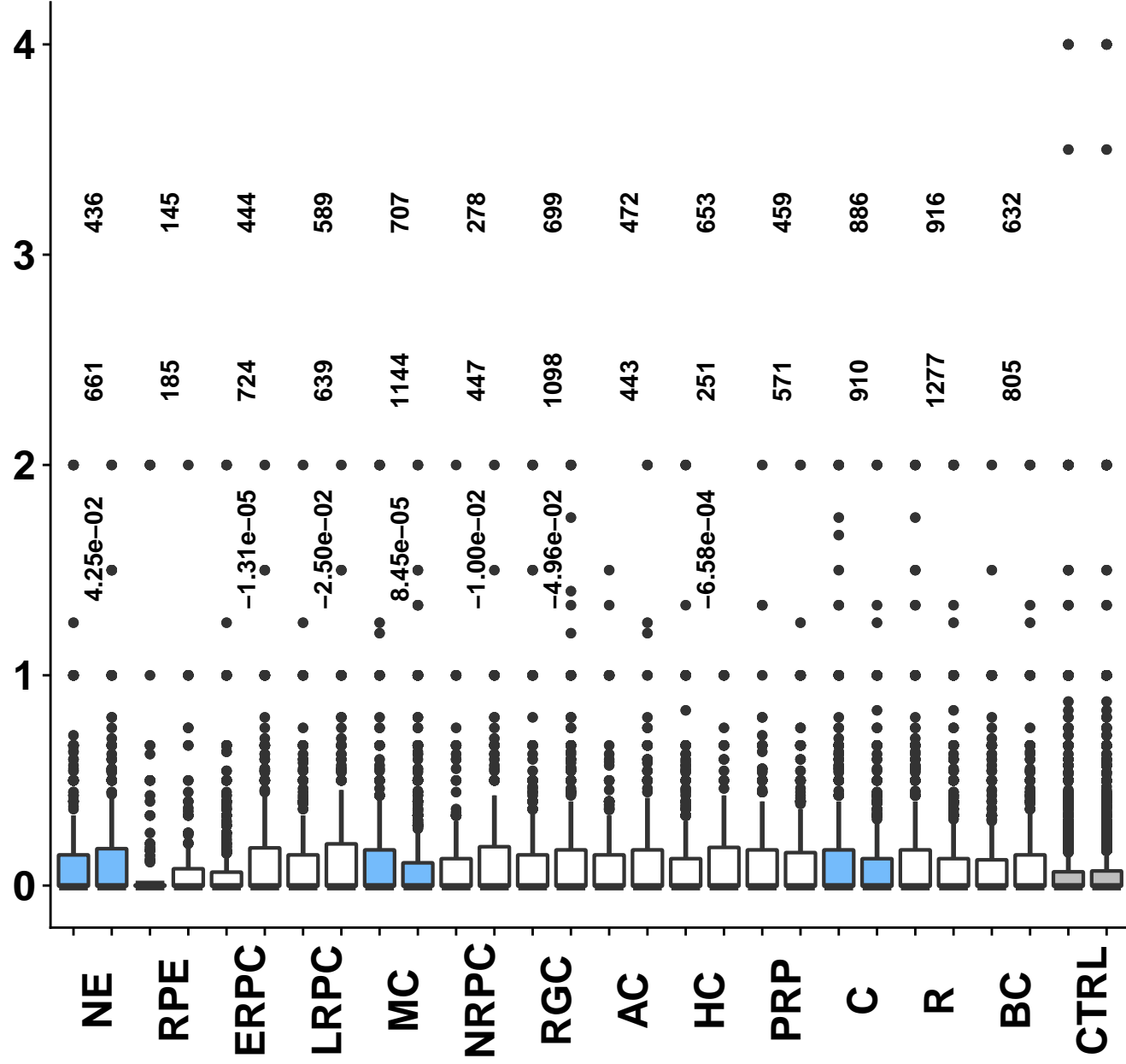
Fos_5_mean



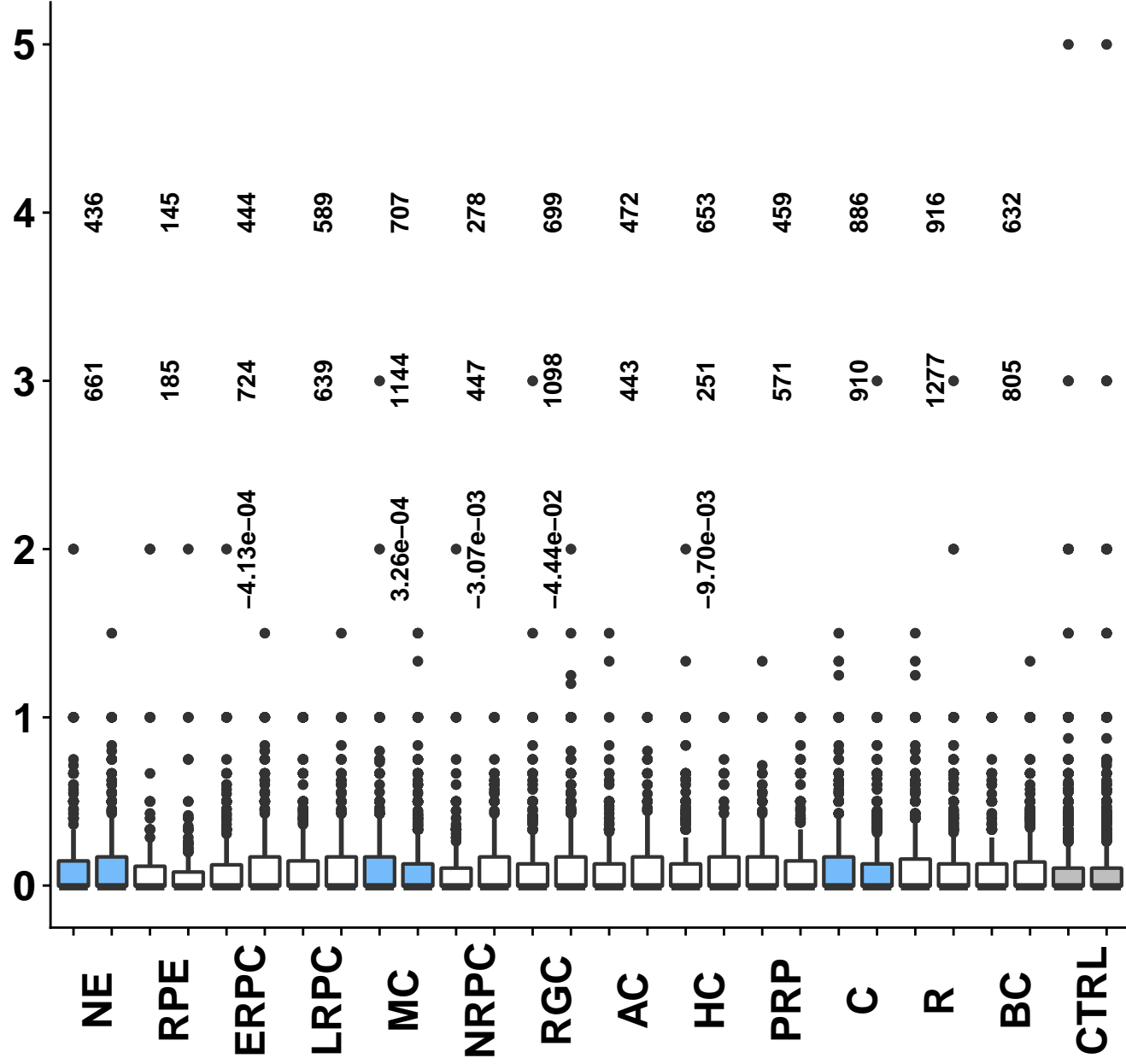
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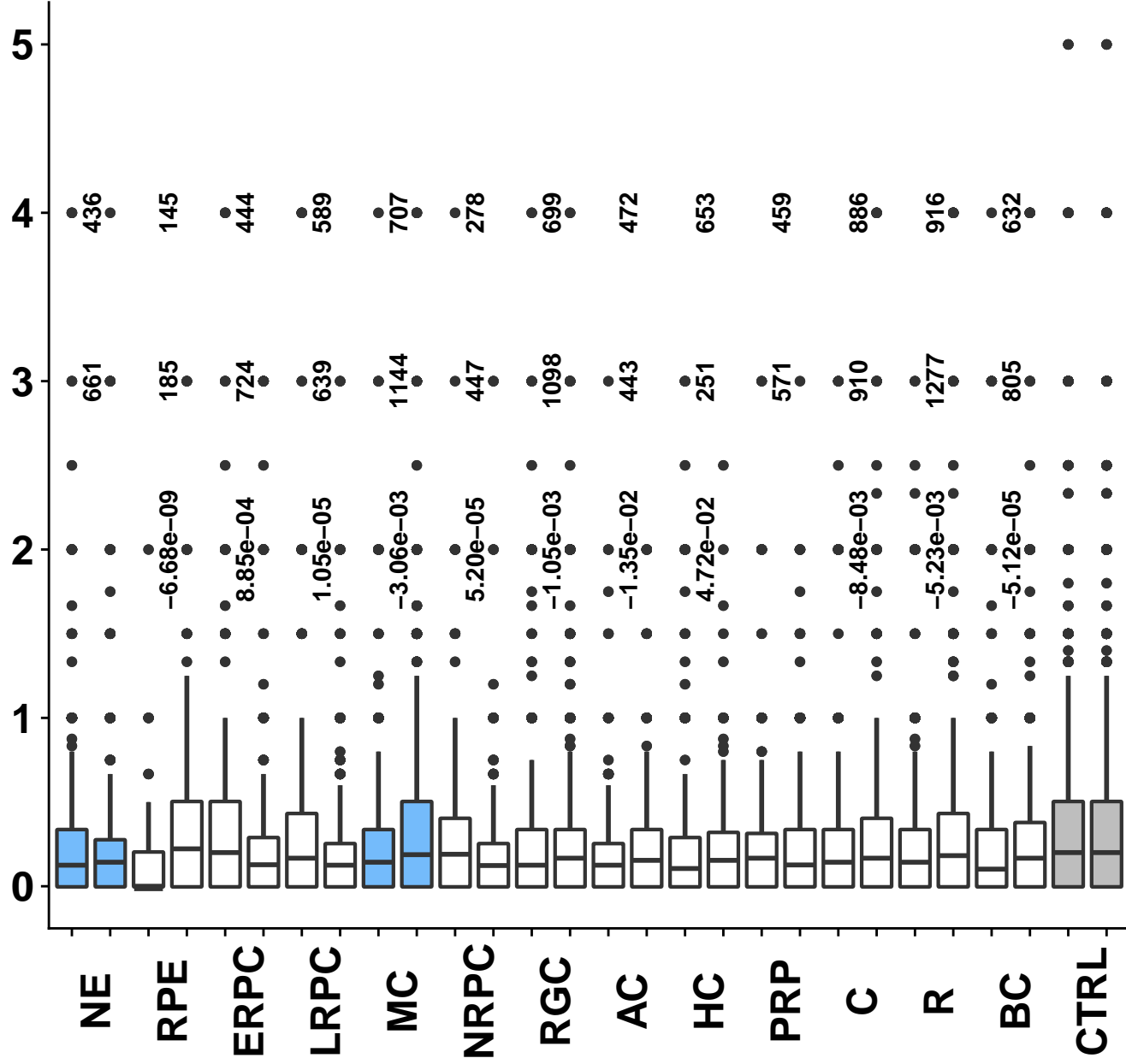
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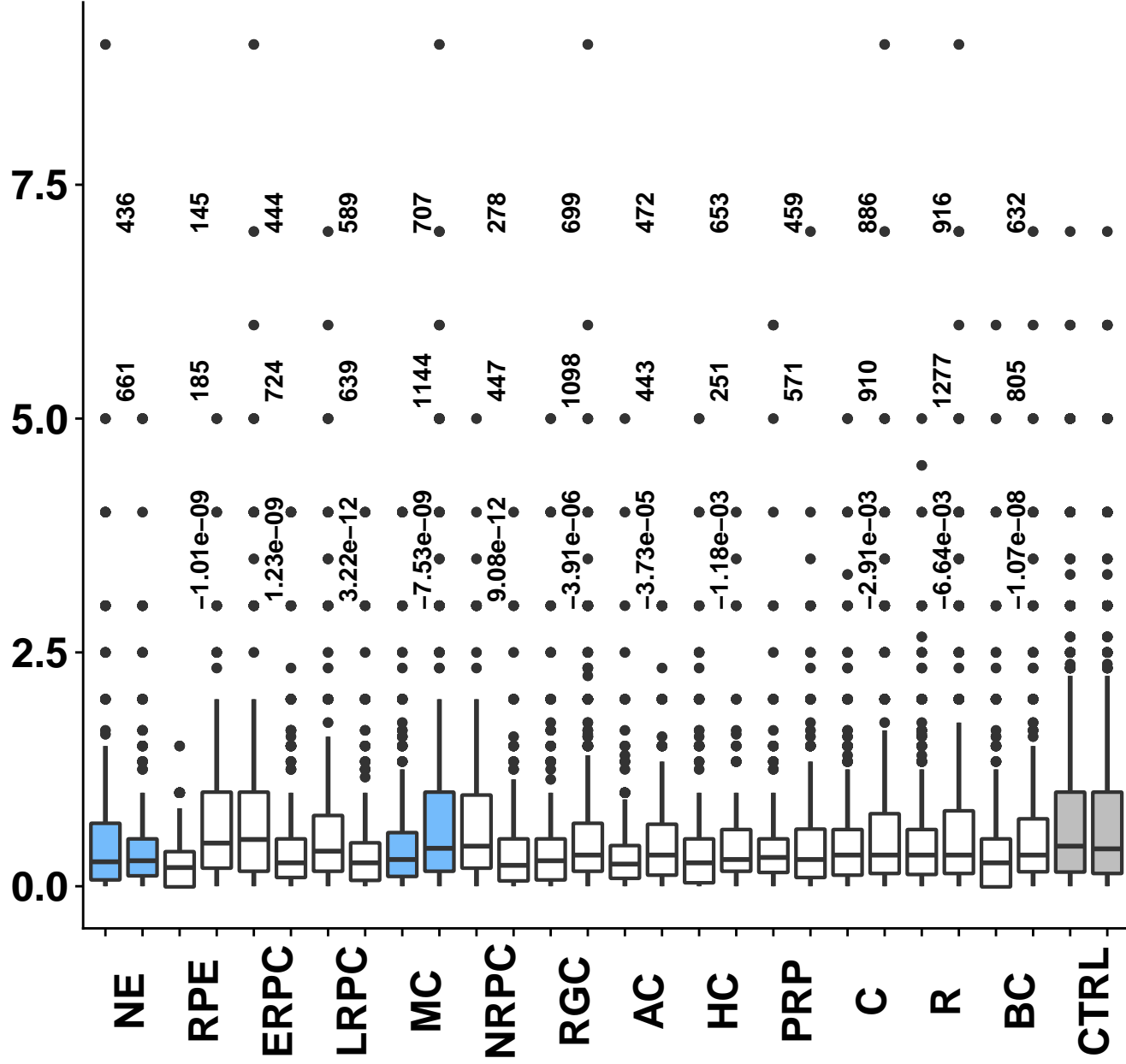
Fos_18_mean



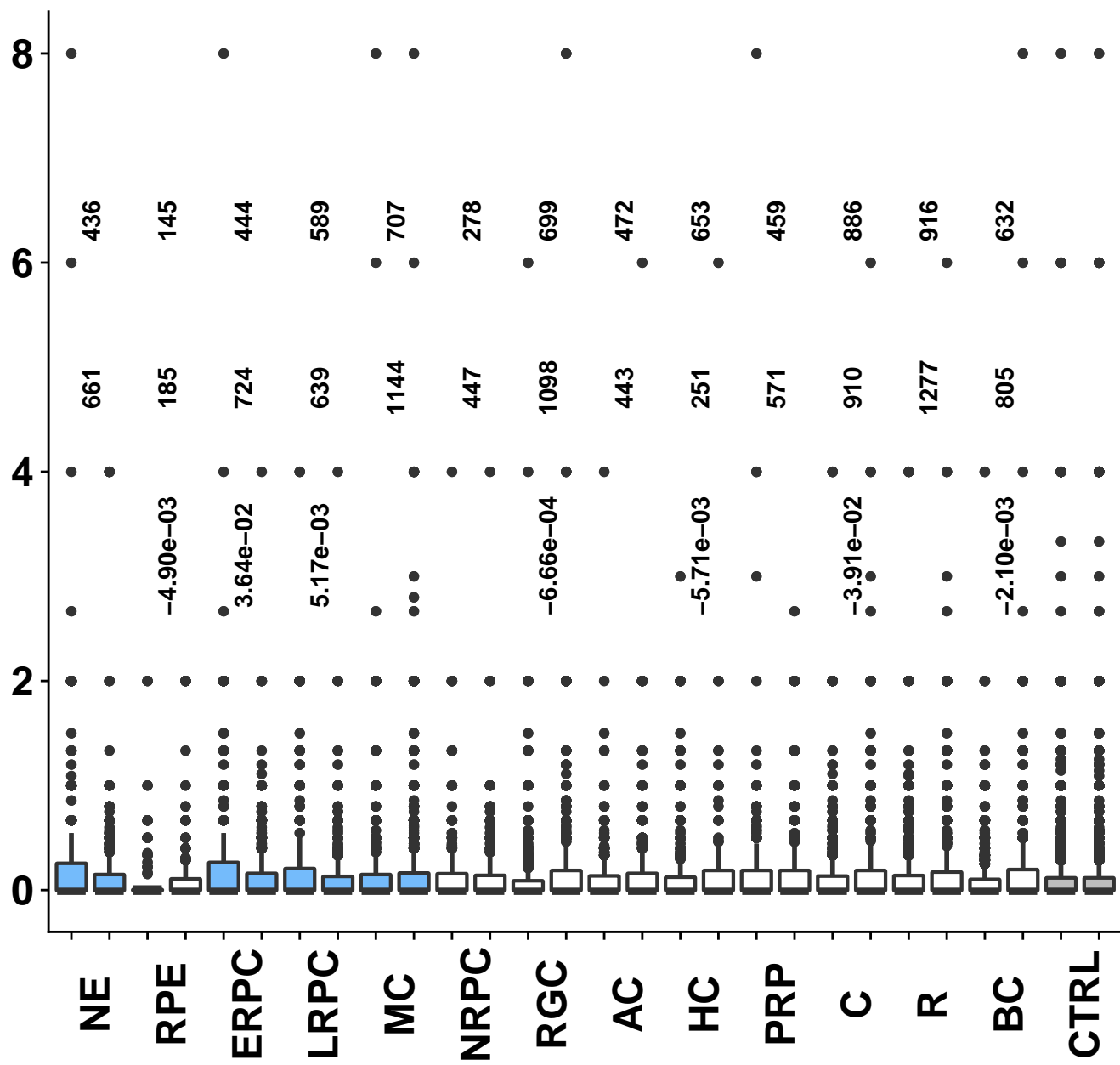
Etv1_1_mean



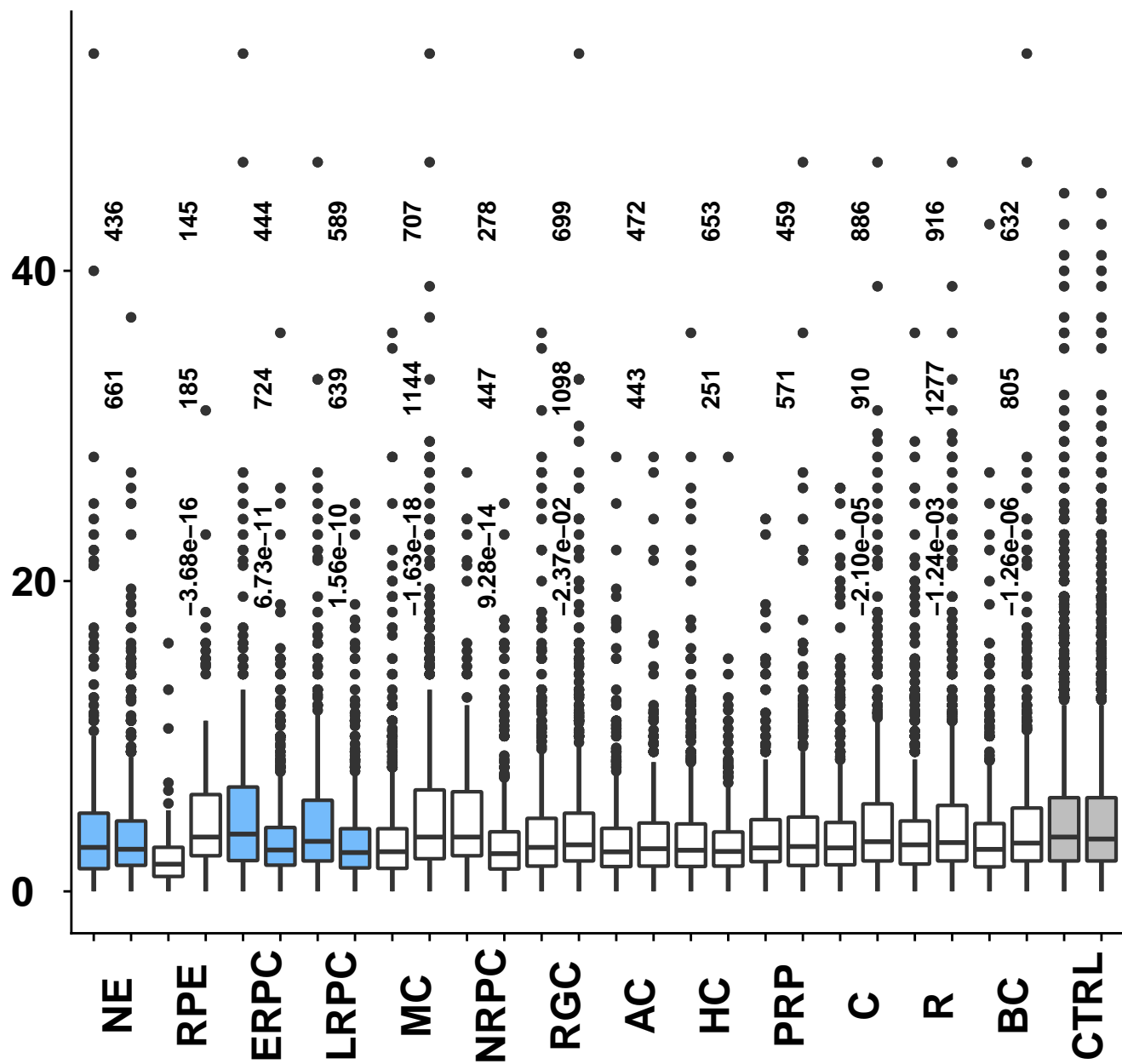
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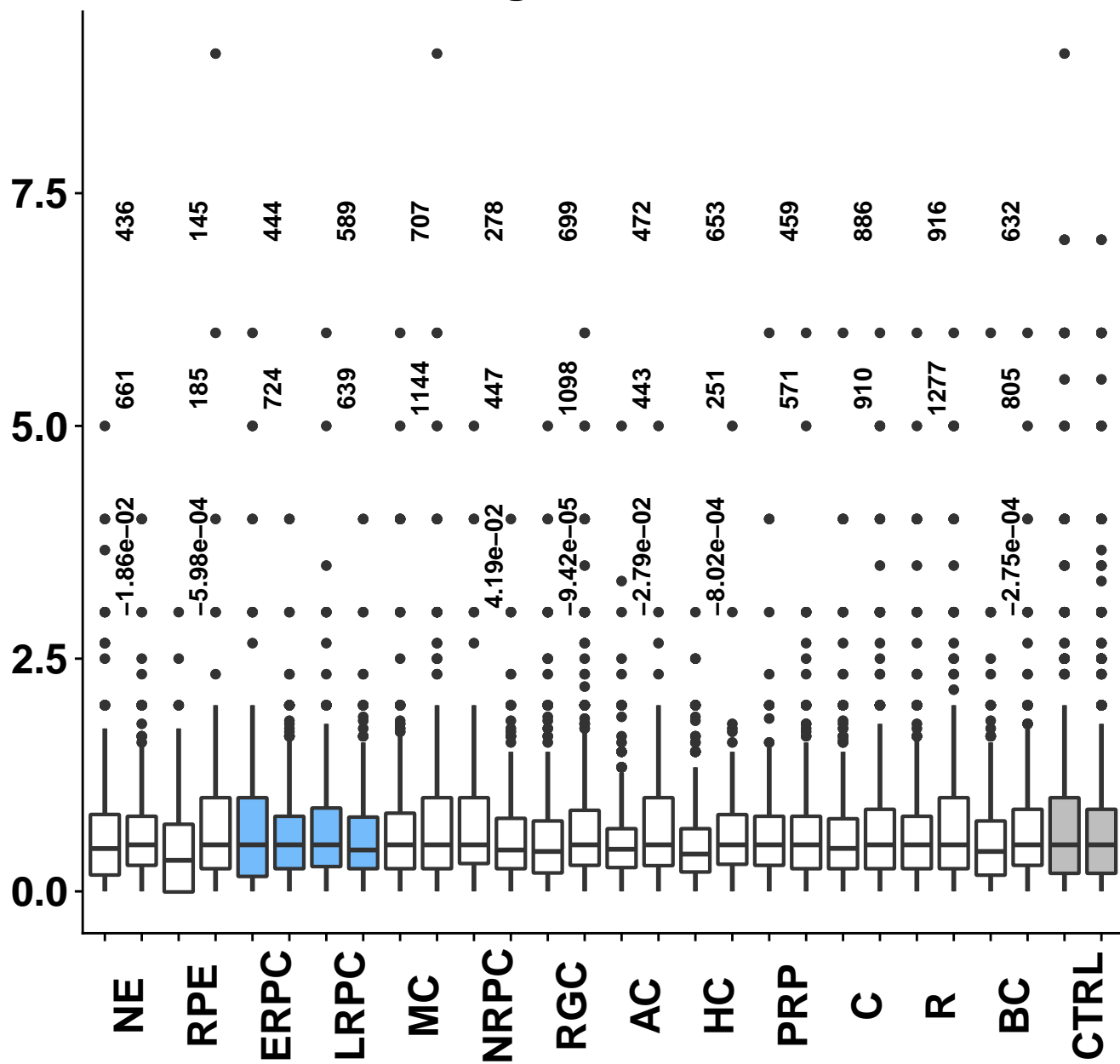
Id2_1_mean



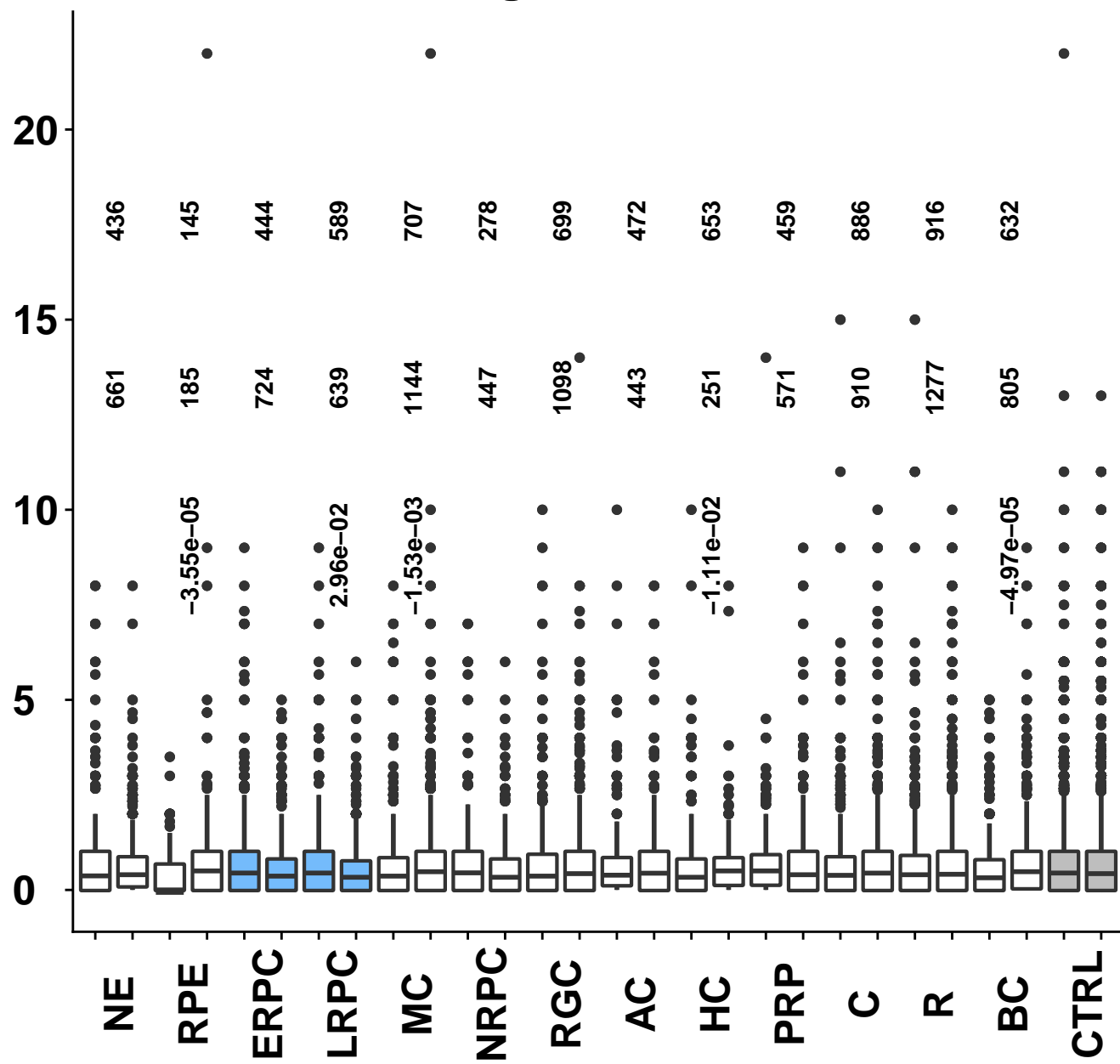
Hes1_1_mean



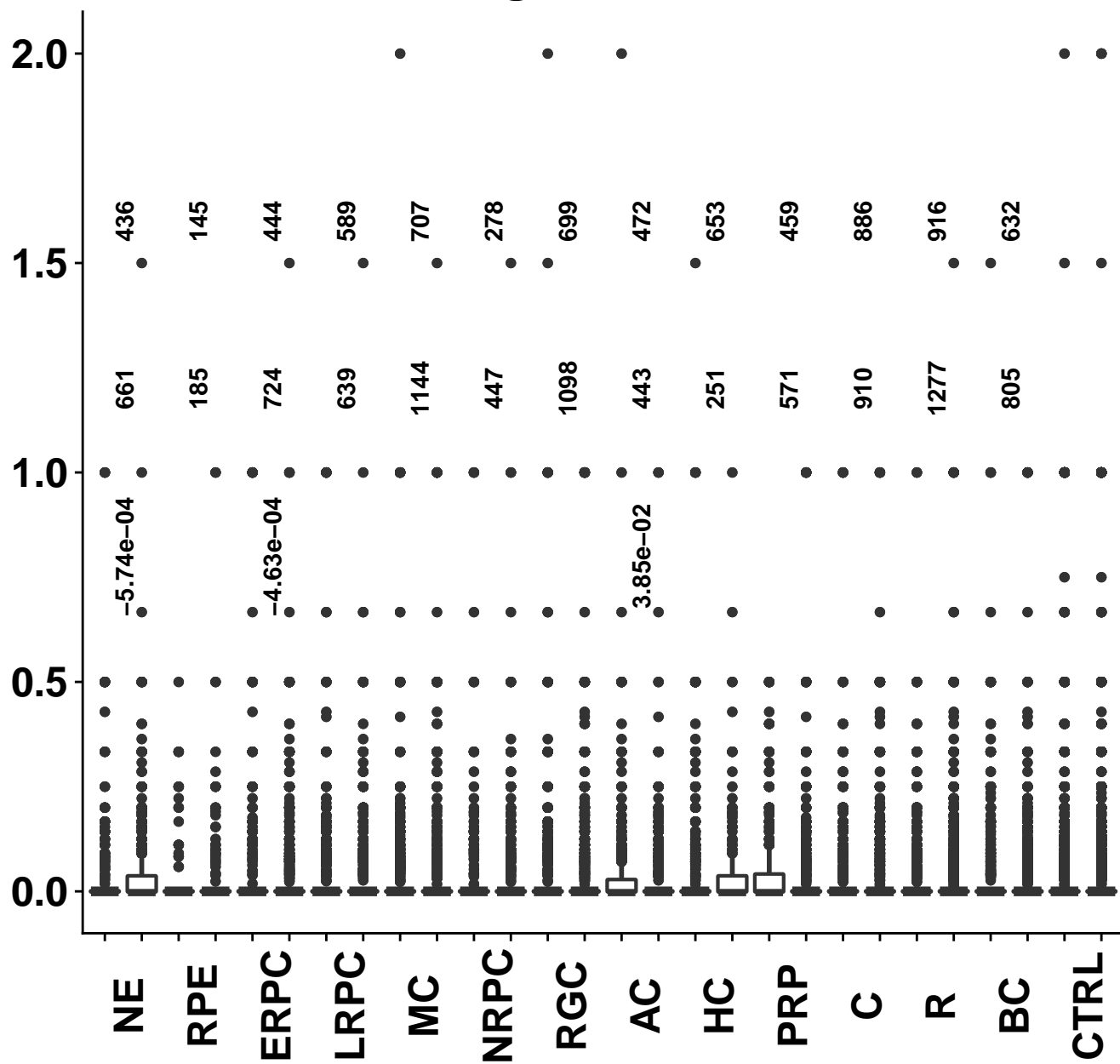
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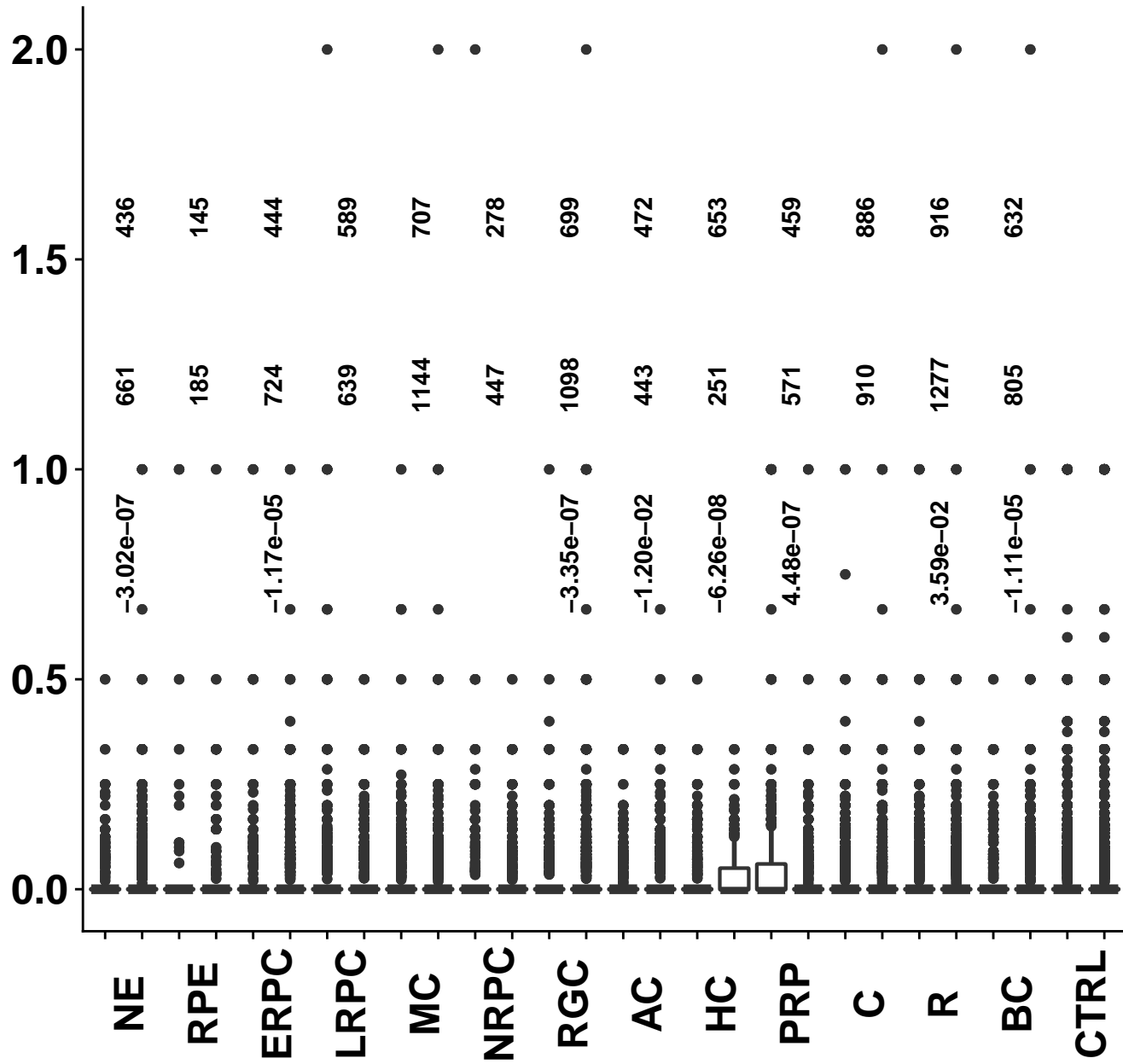
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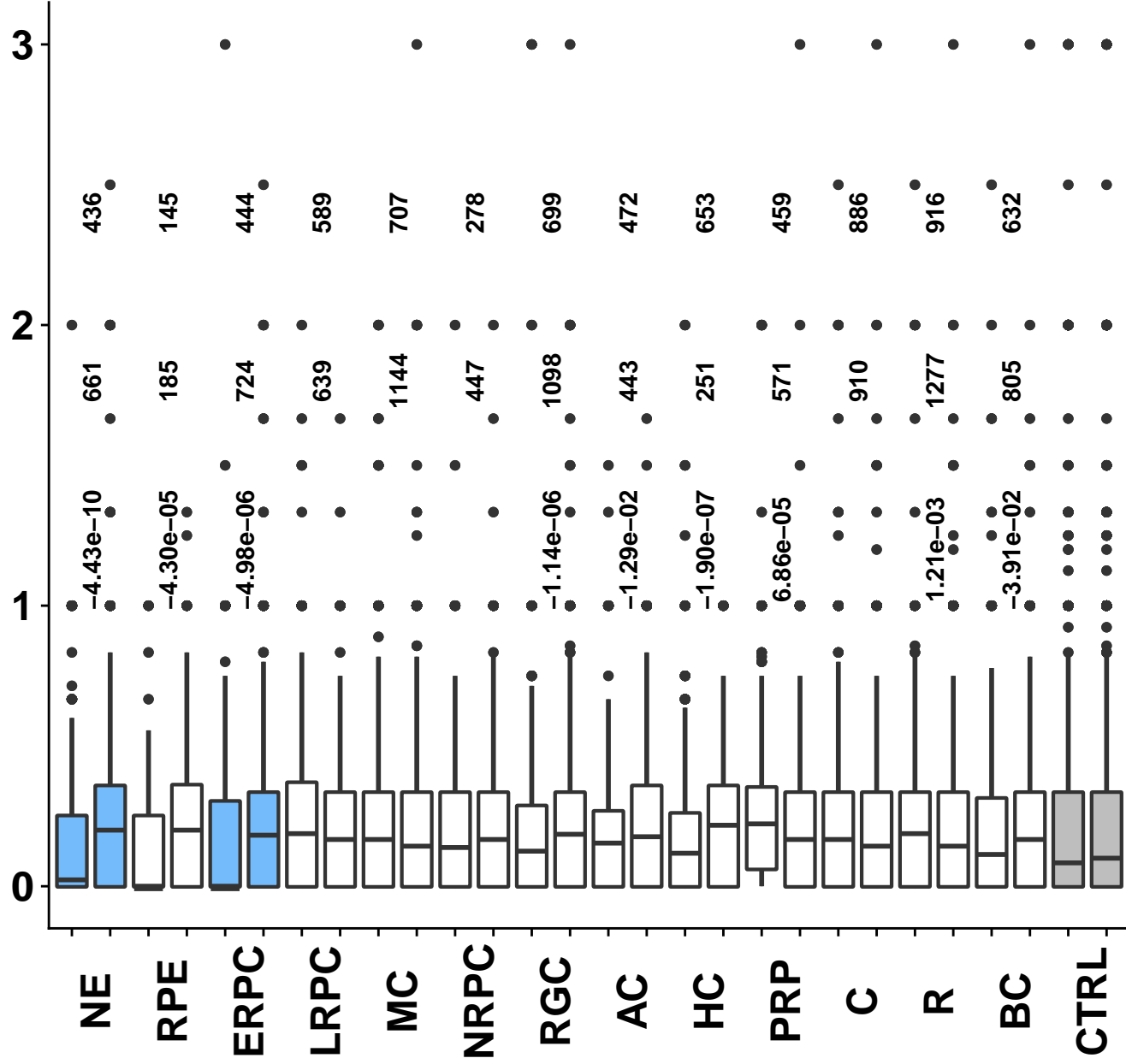
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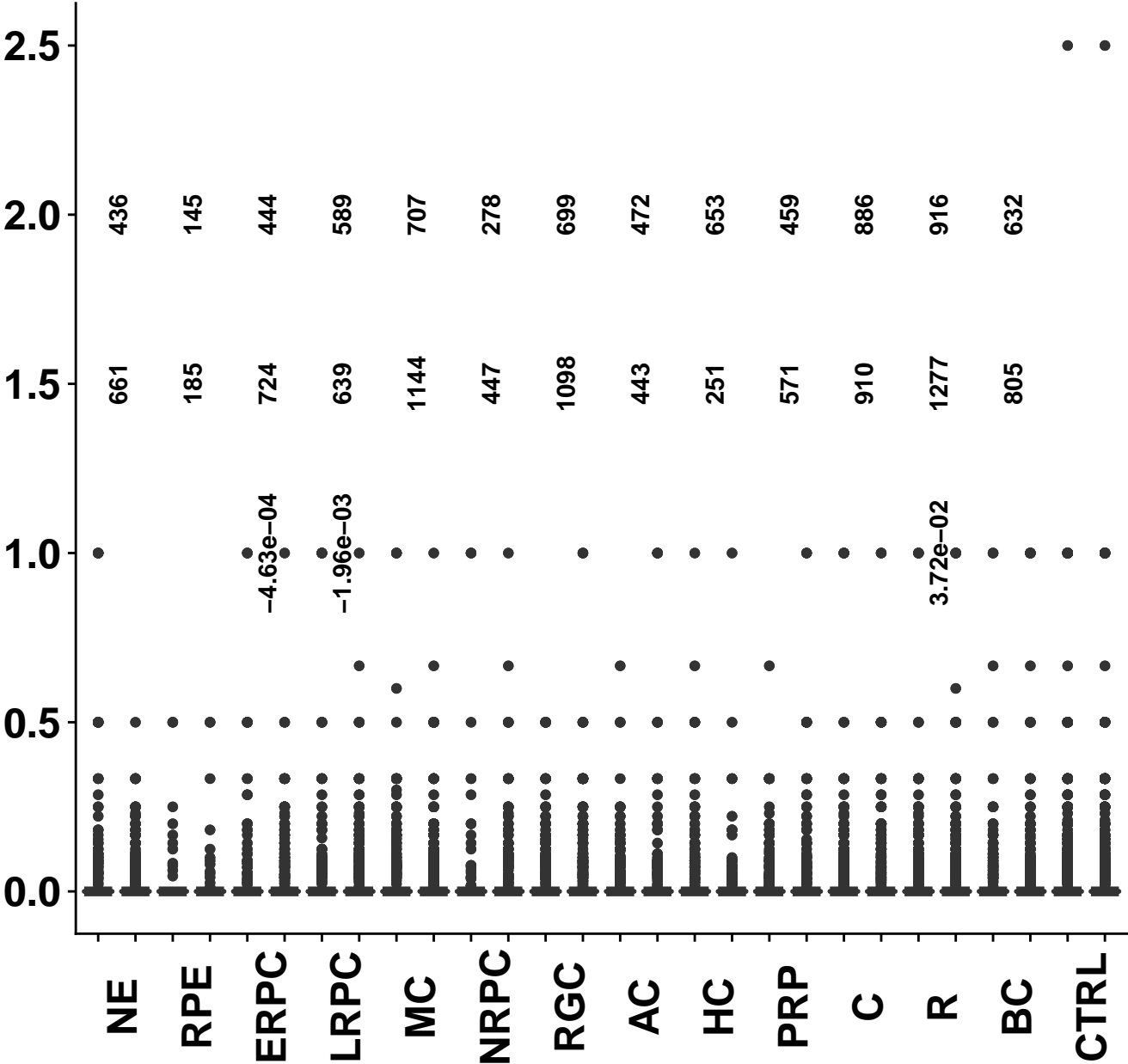
Foxp1_1_mean



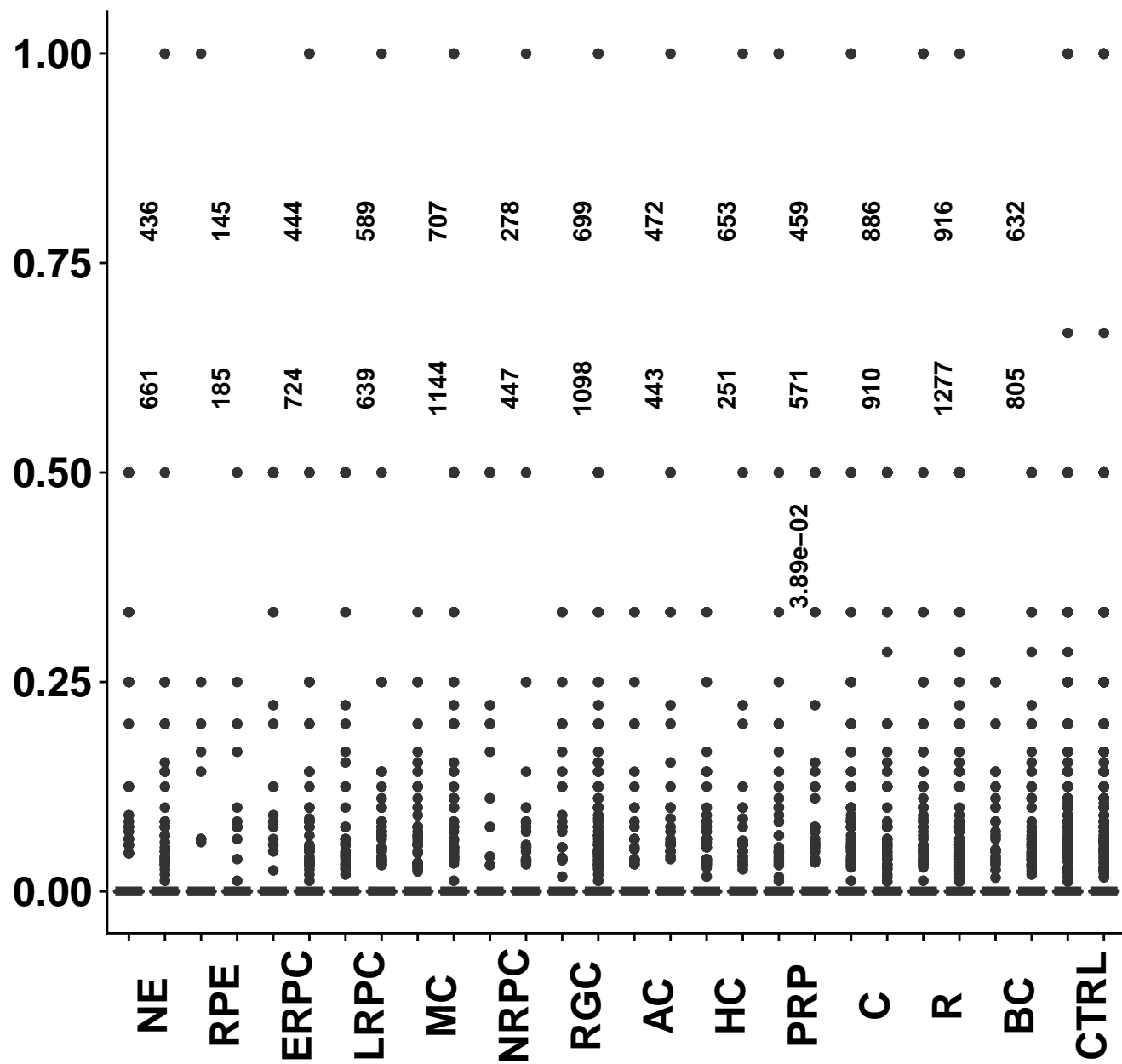
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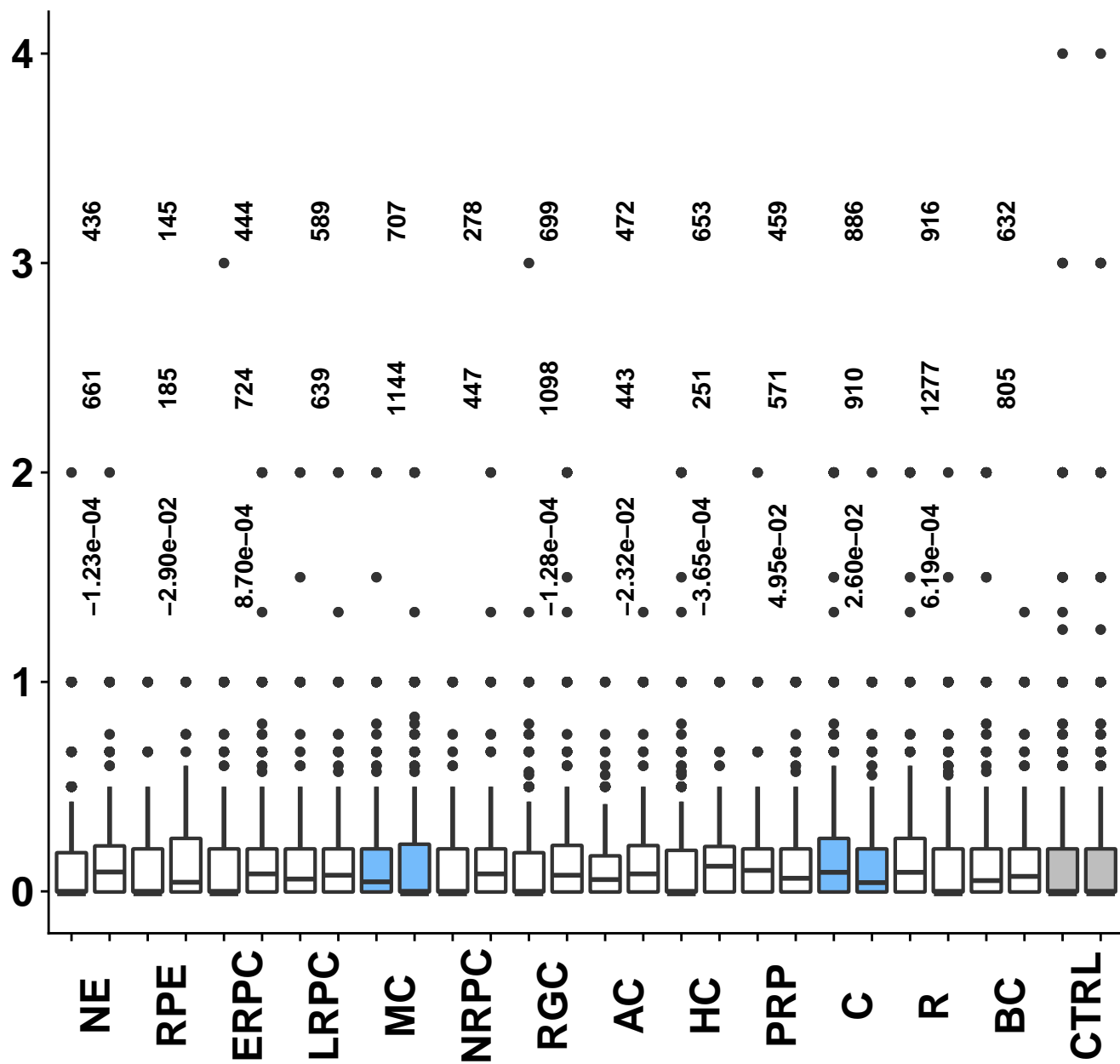
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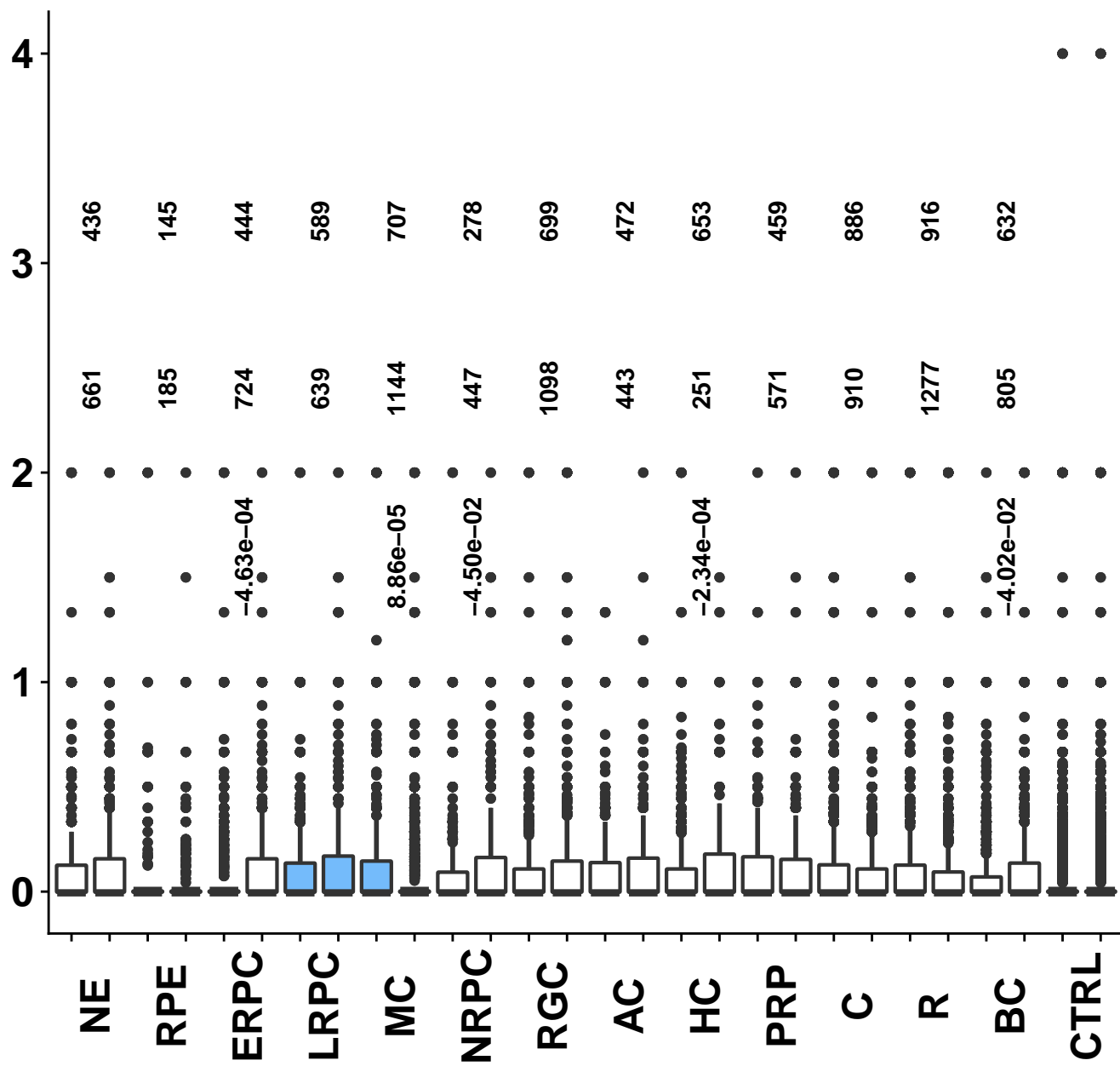
Nr4a1_1_mean



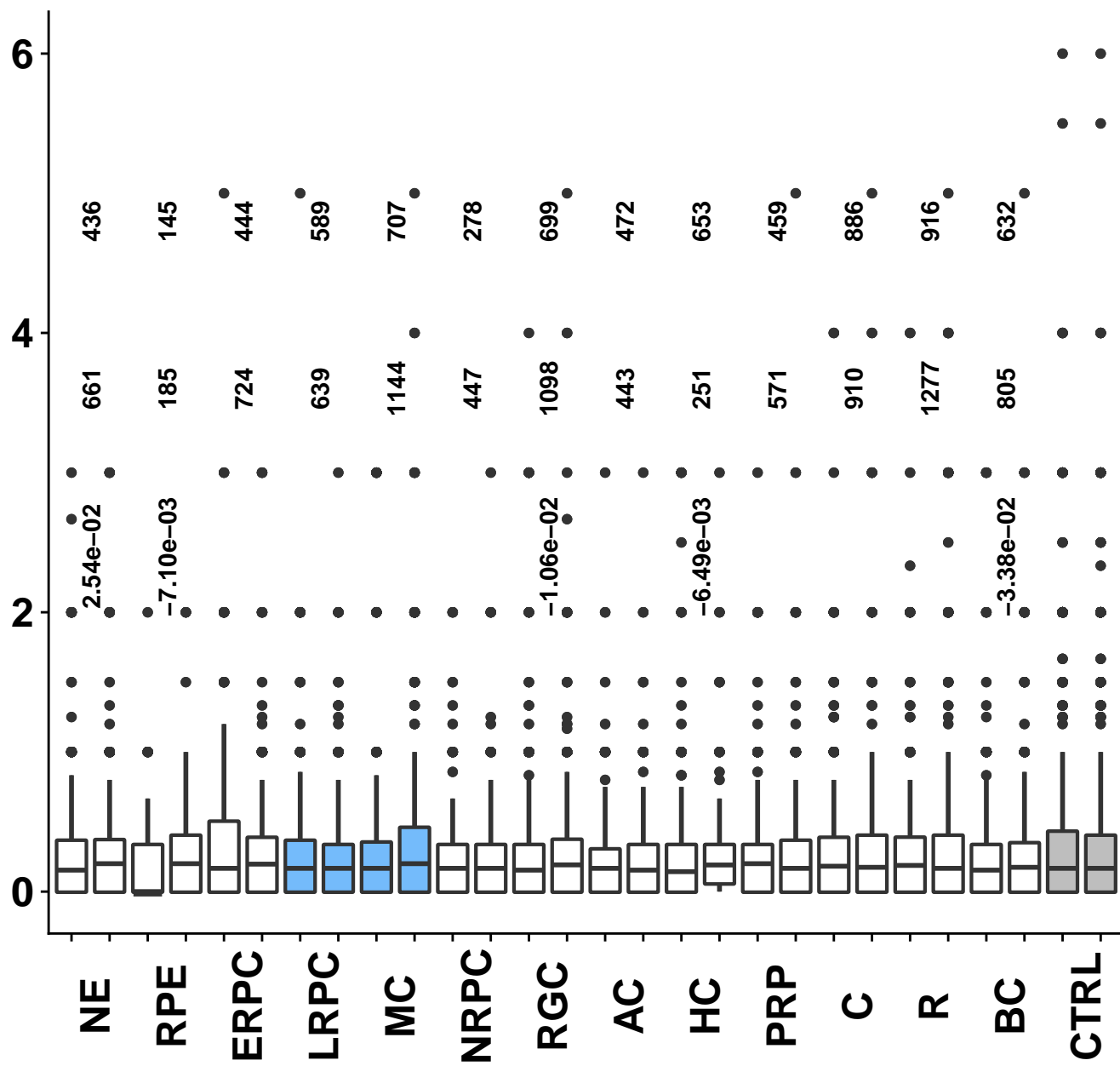
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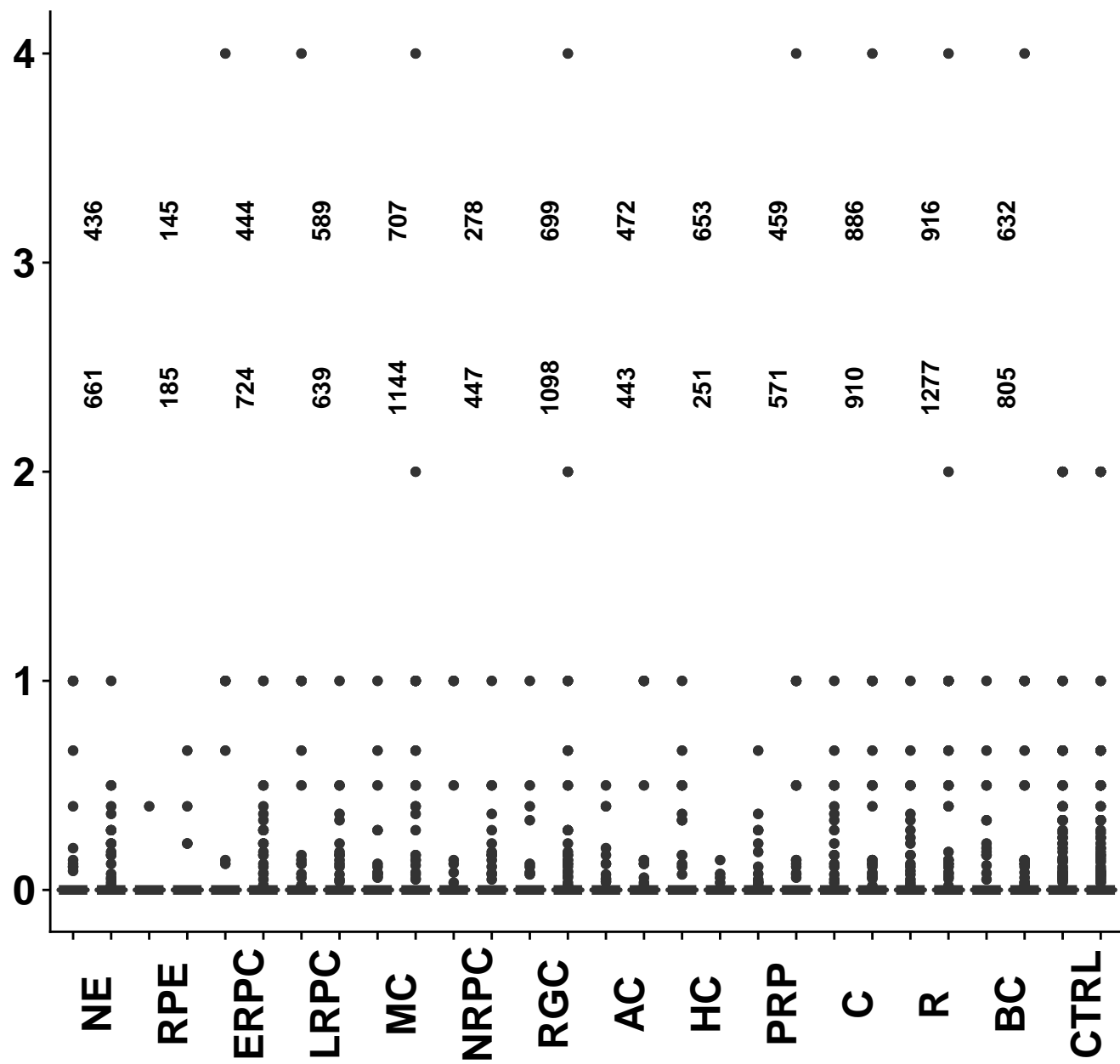
Atf3_1_mean



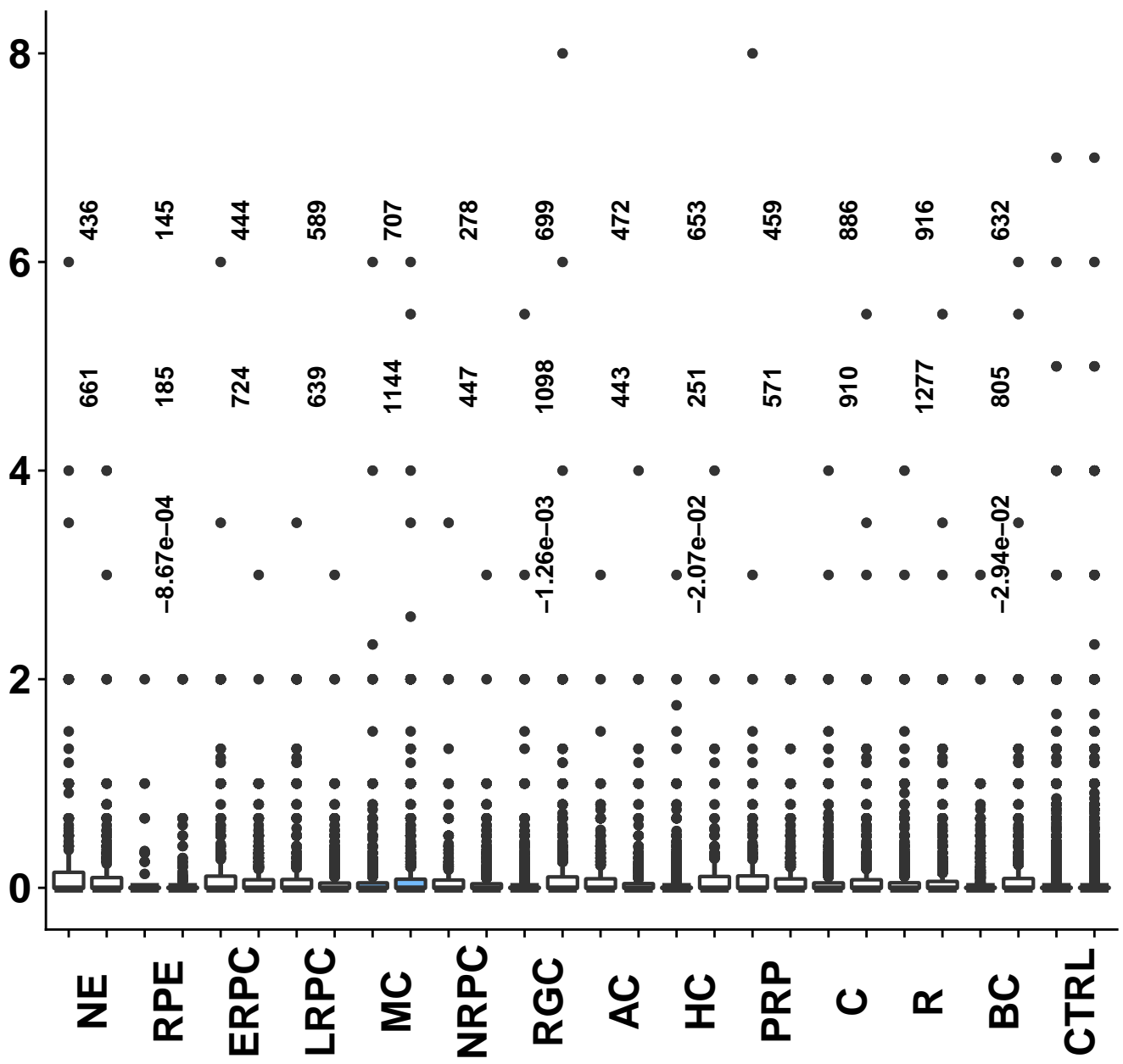
Atf3_2_mean



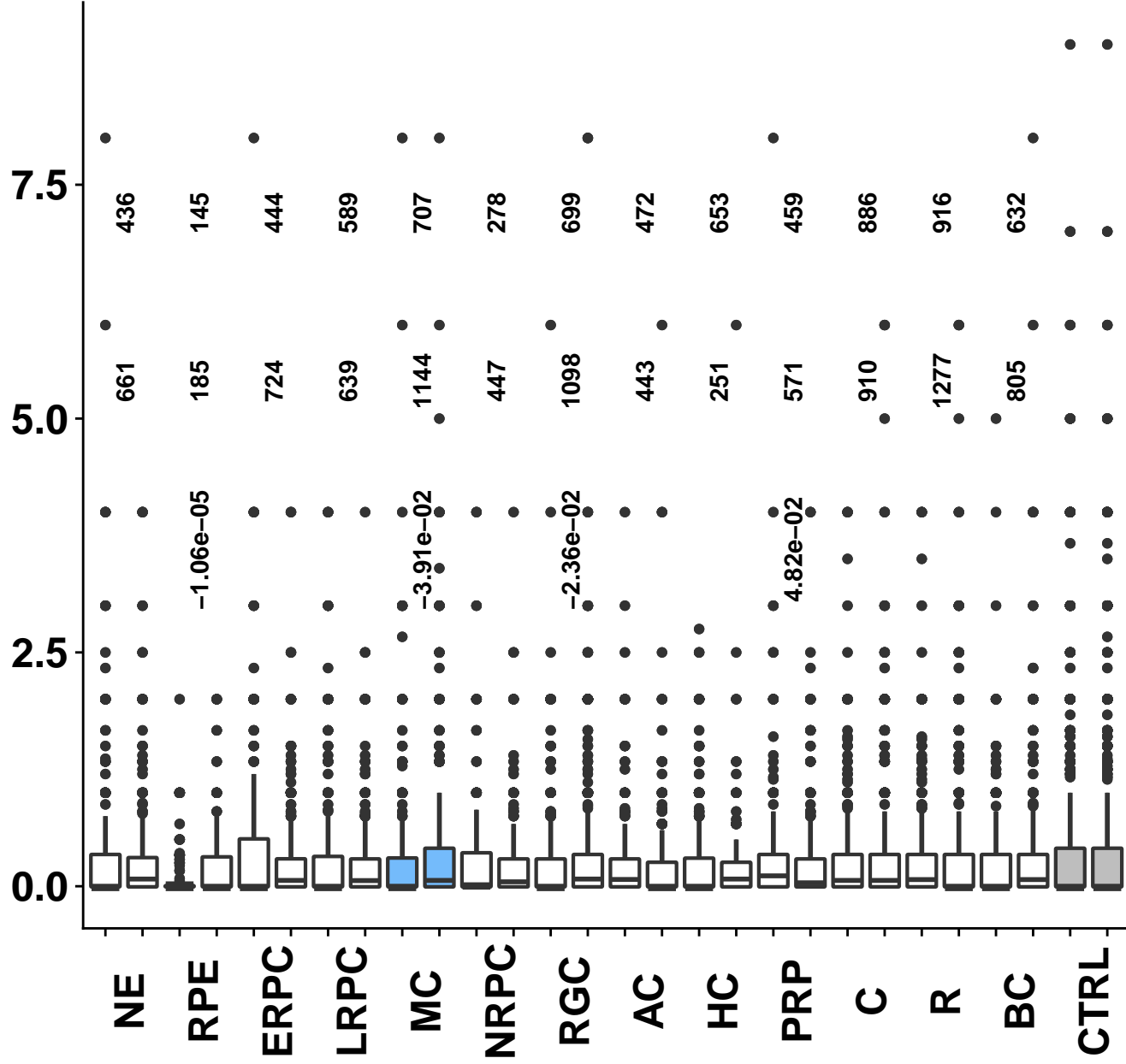
Atf3_3_mean



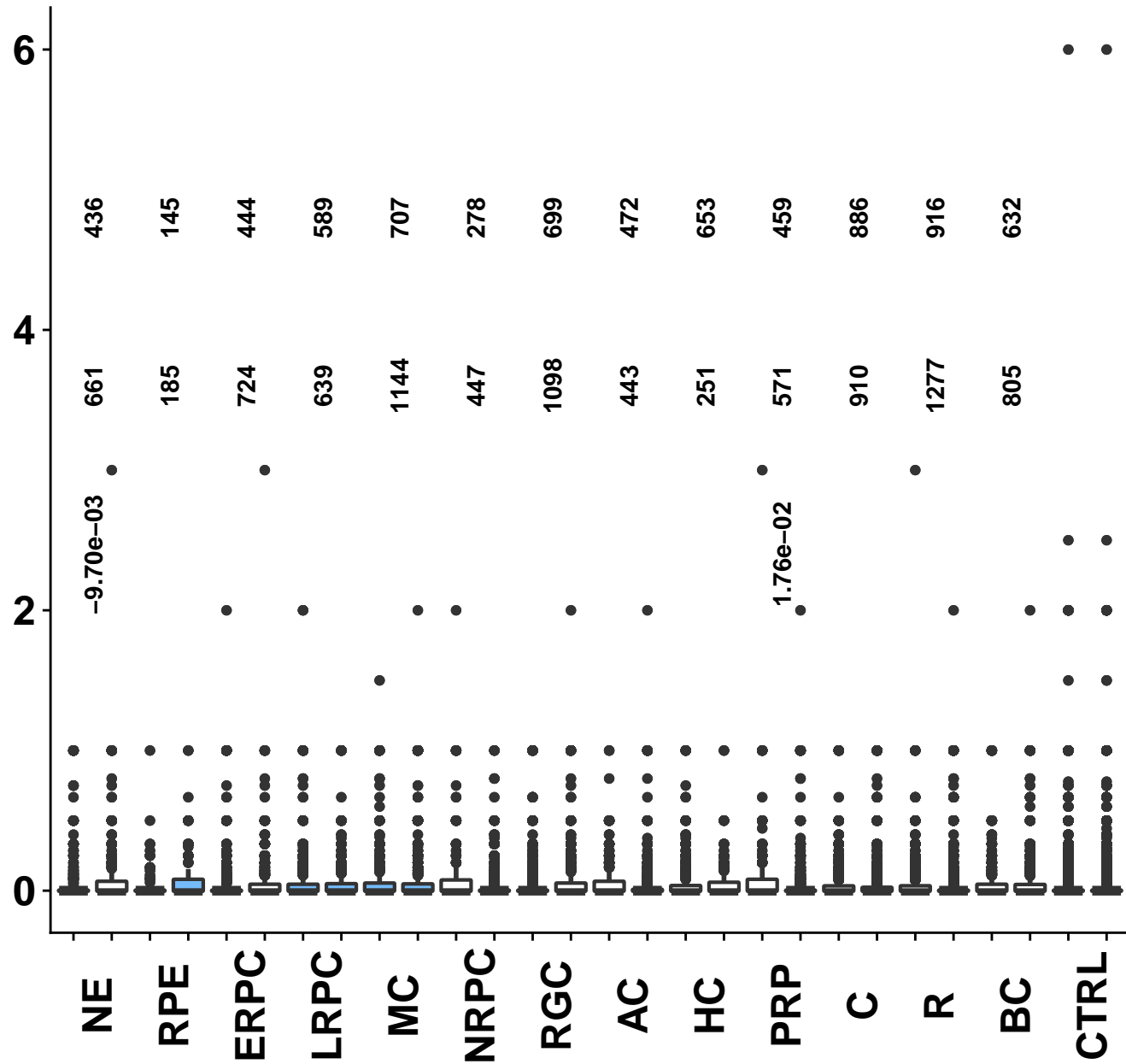
Bhlhe40_1_mean



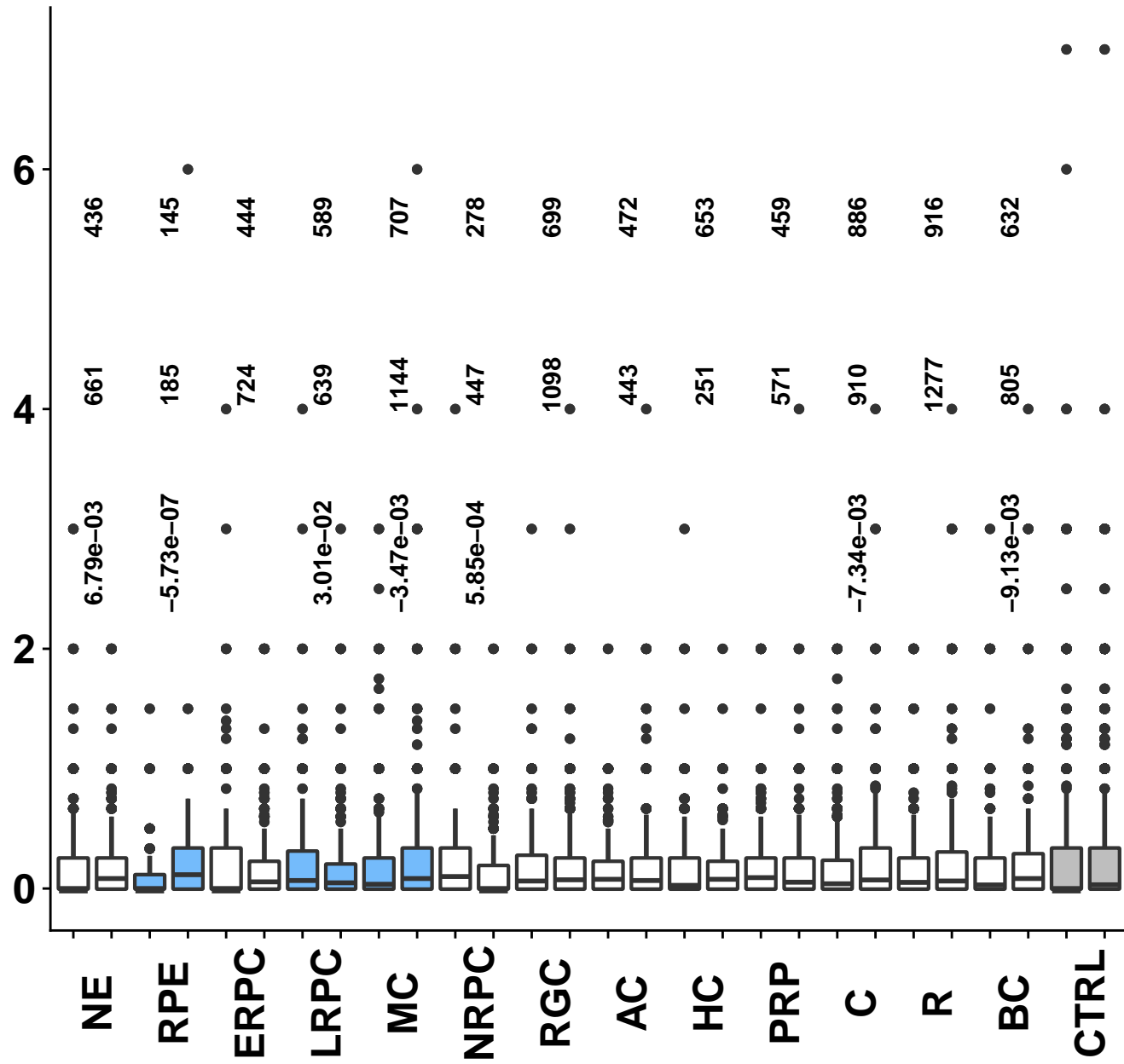
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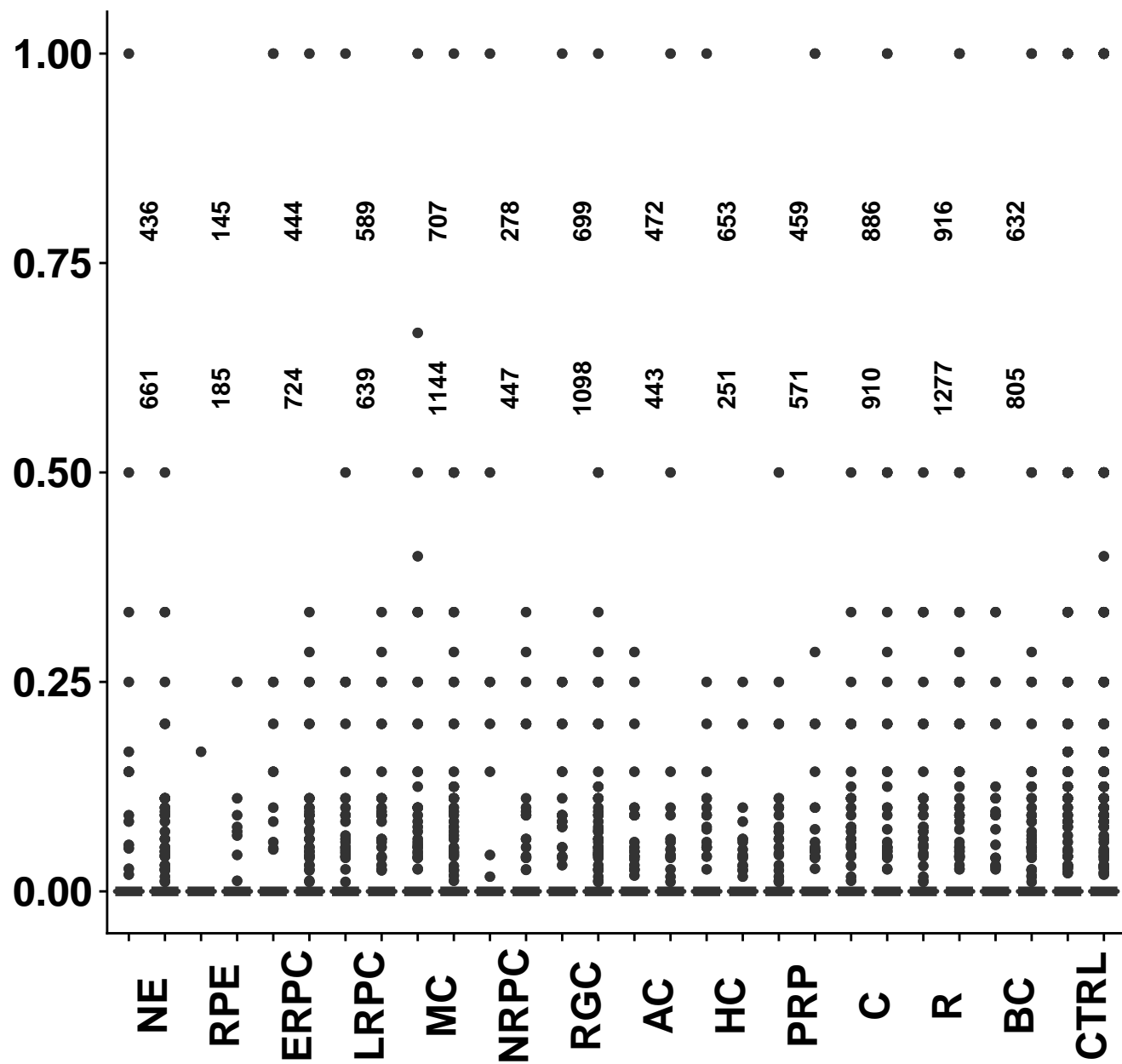
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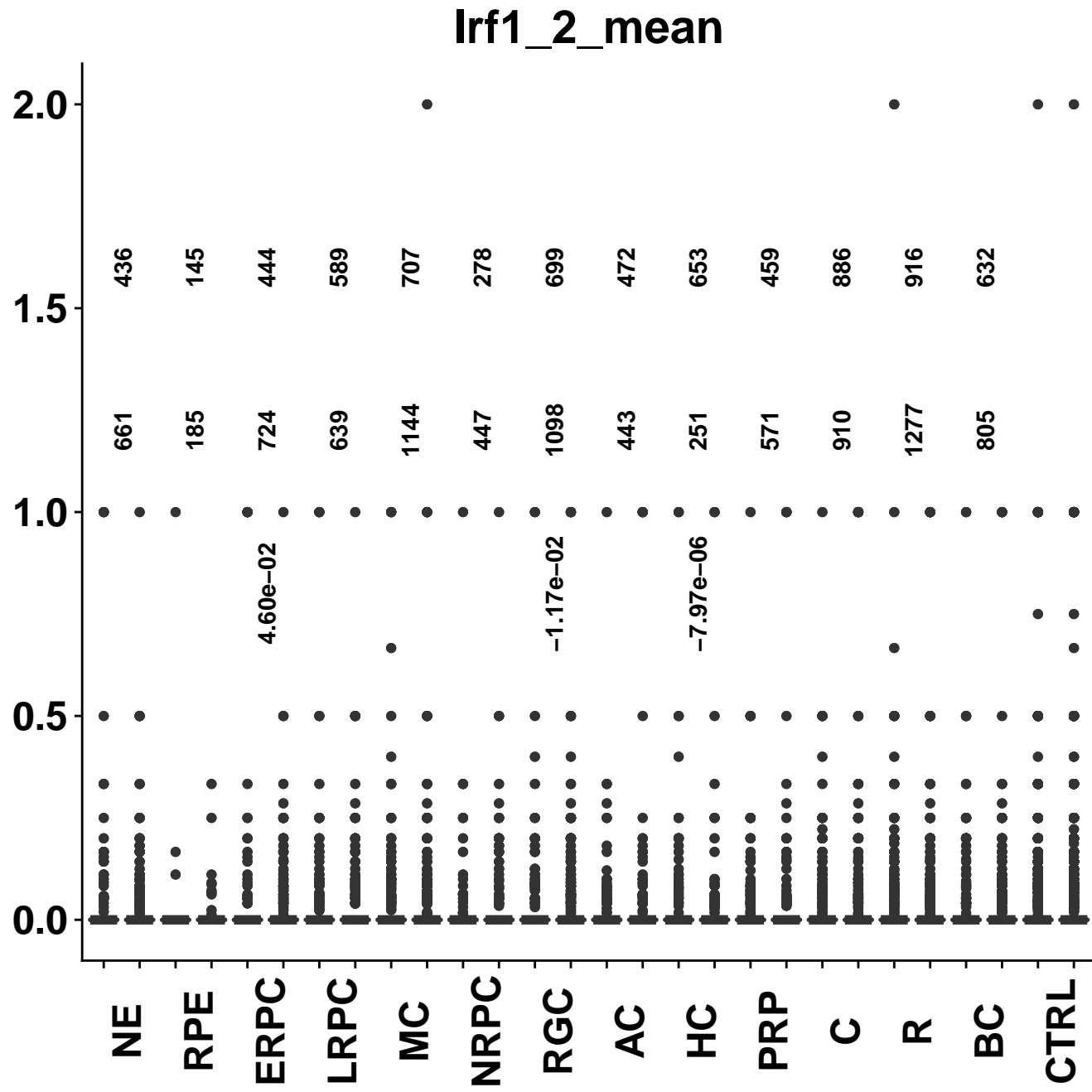


Egr2_2_mean

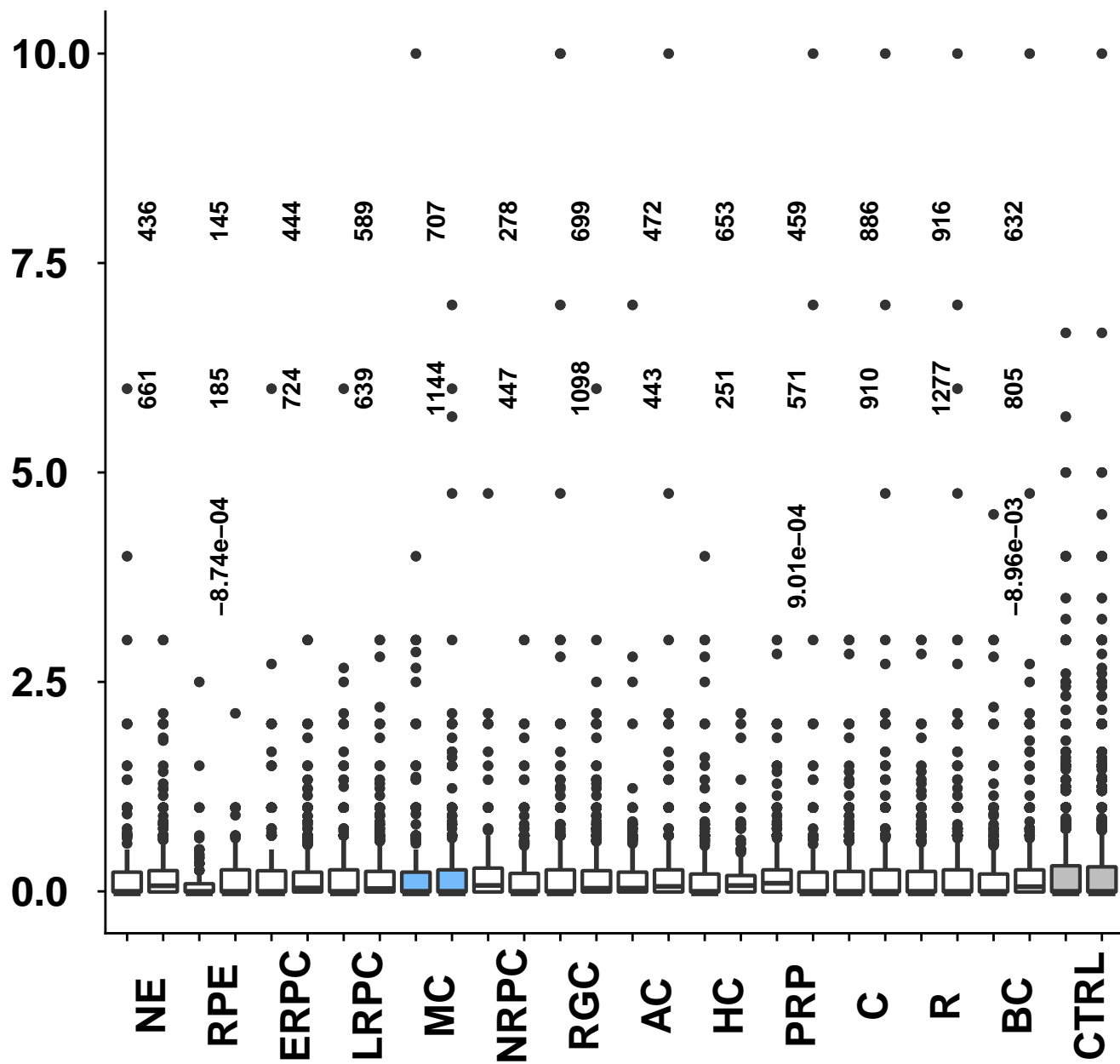


Irf1_1_mean

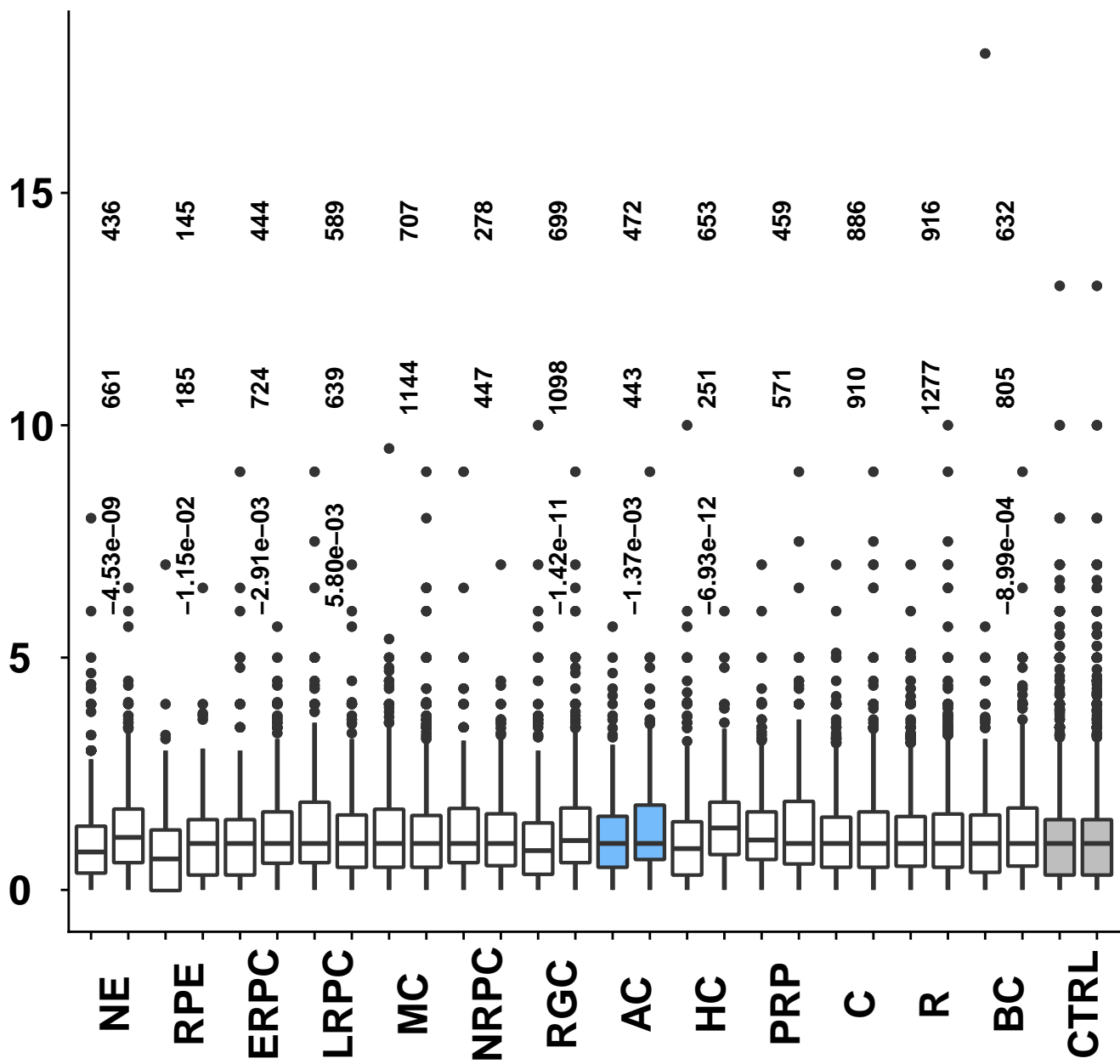




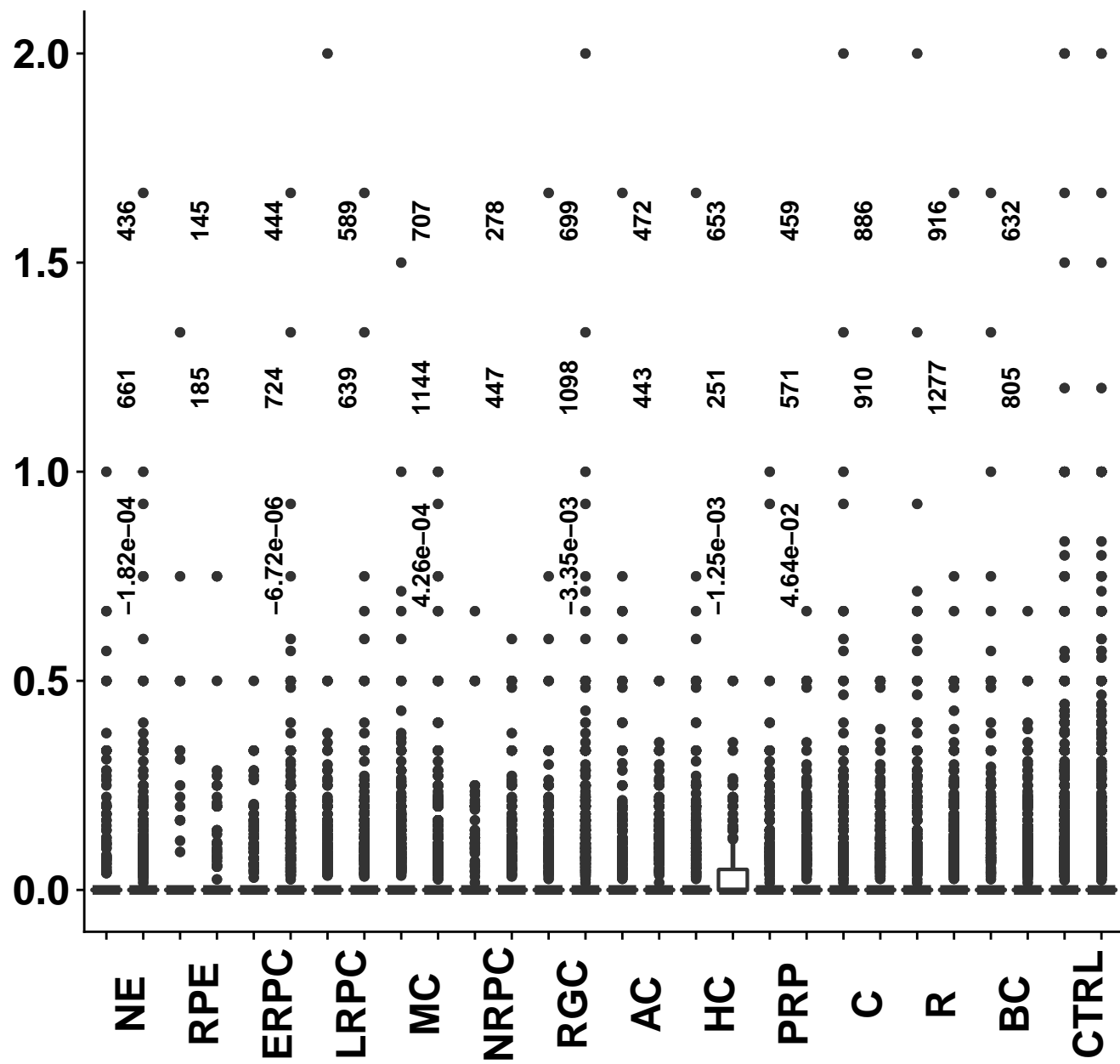
Klf10_1_mean



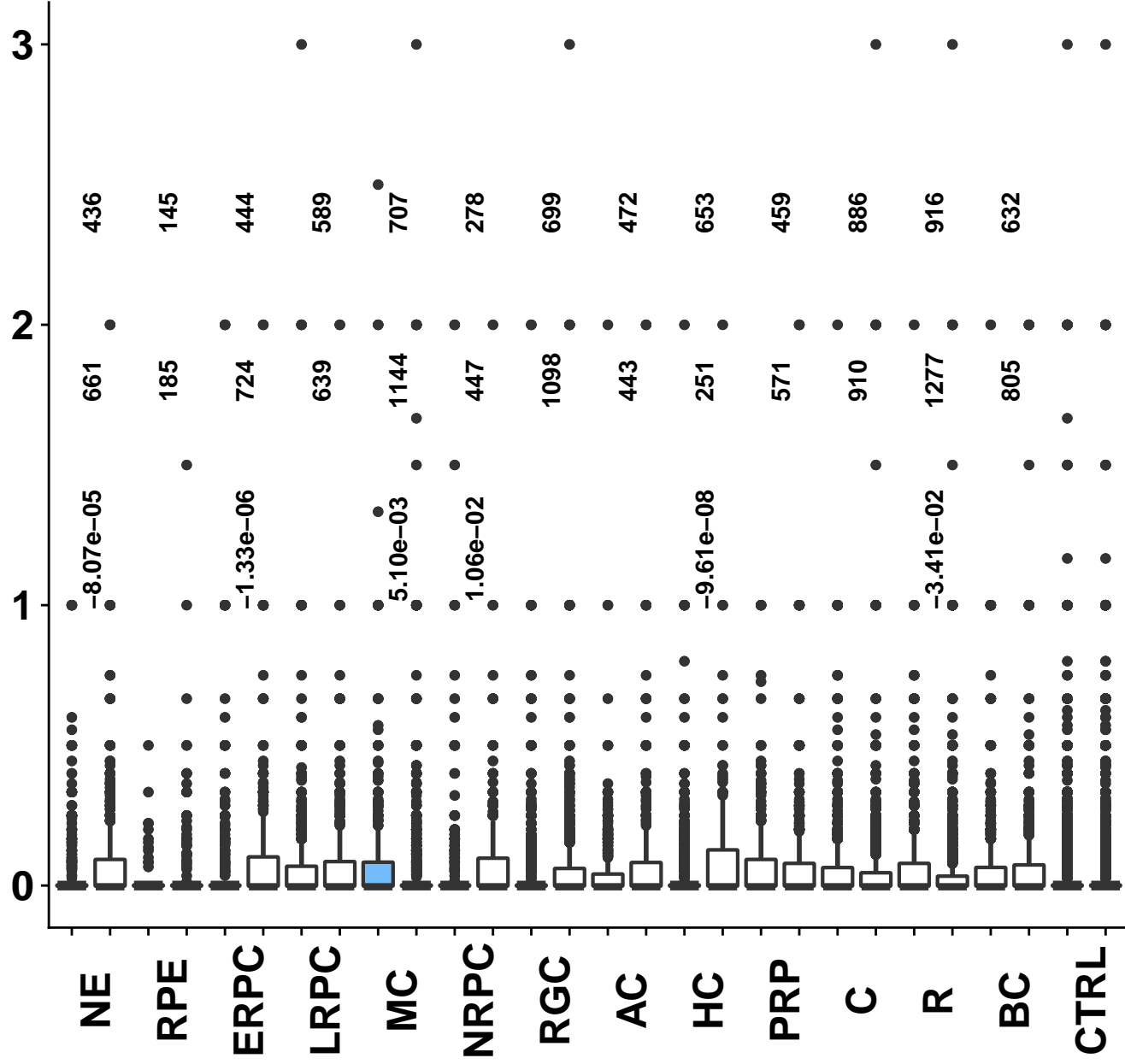
Lhx9_1_mean



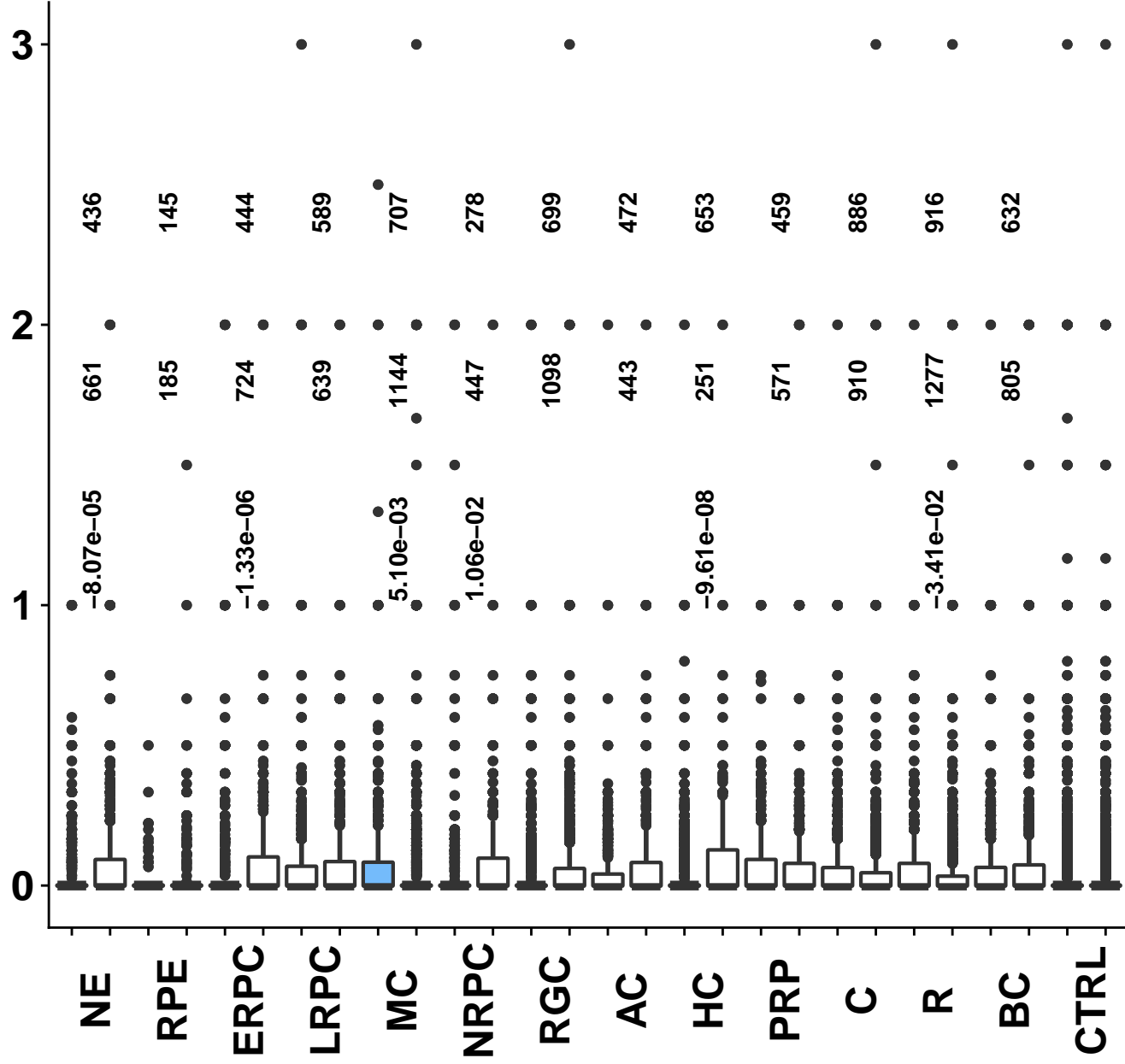
Lhx9_2_mean



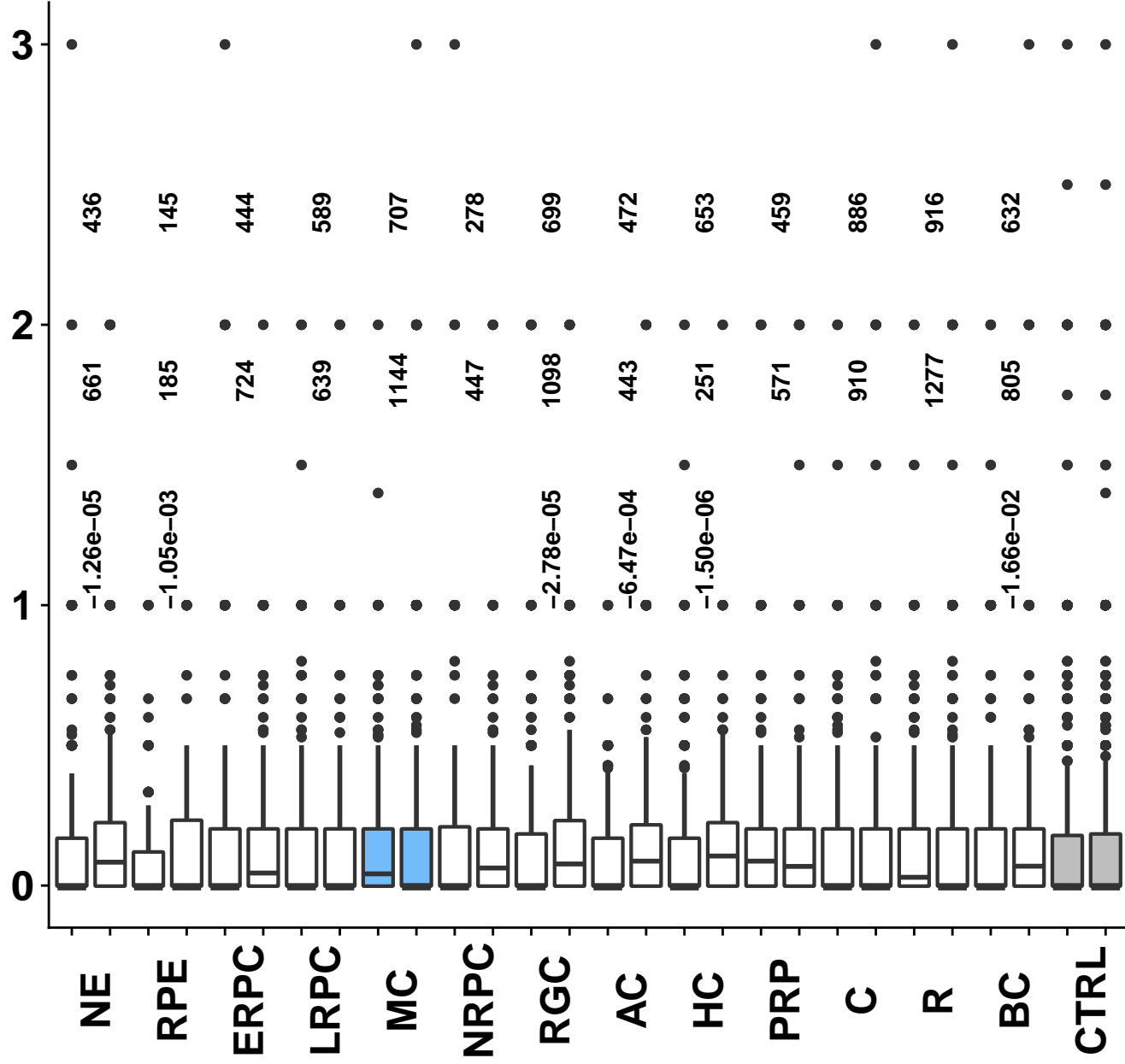
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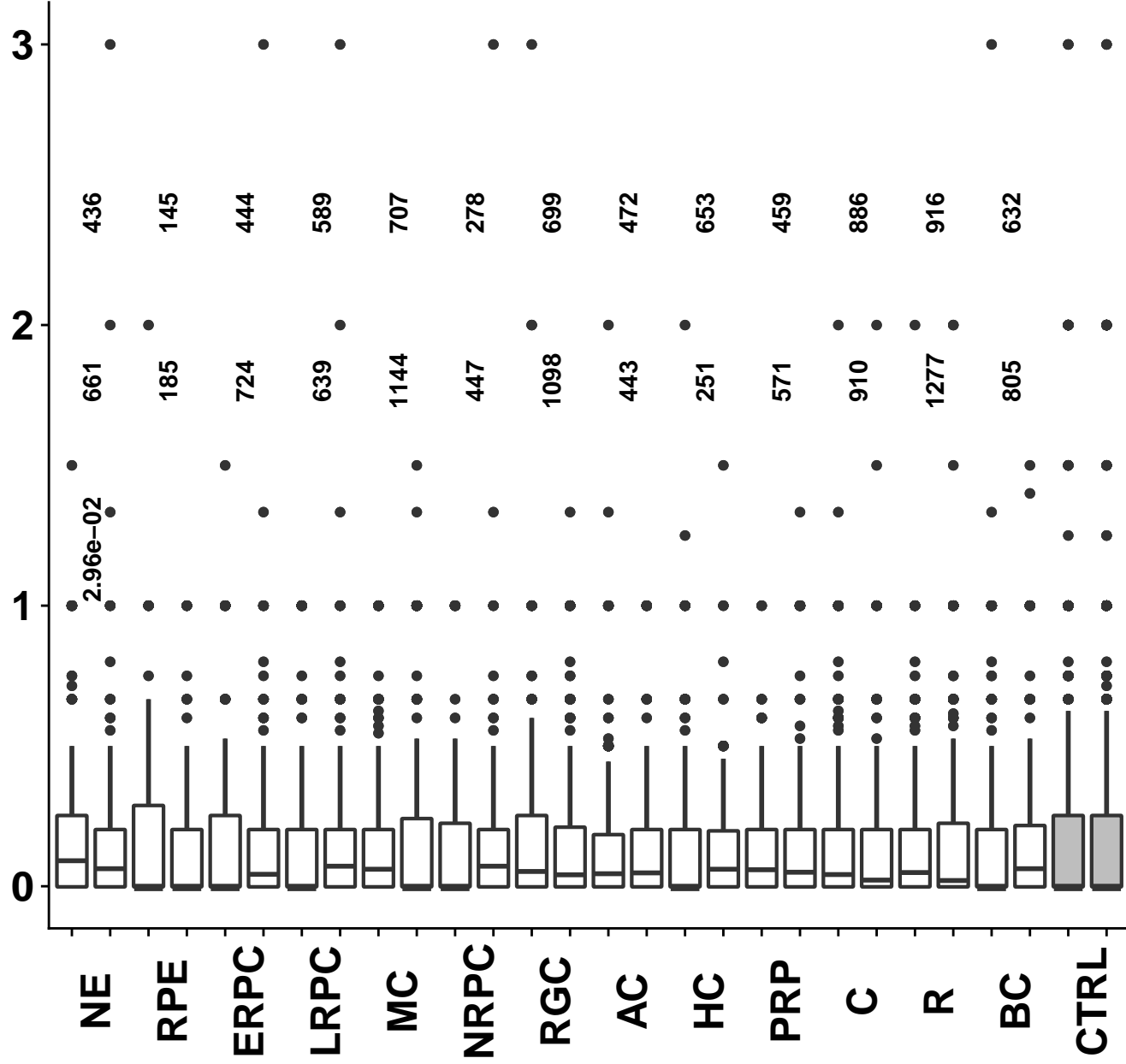
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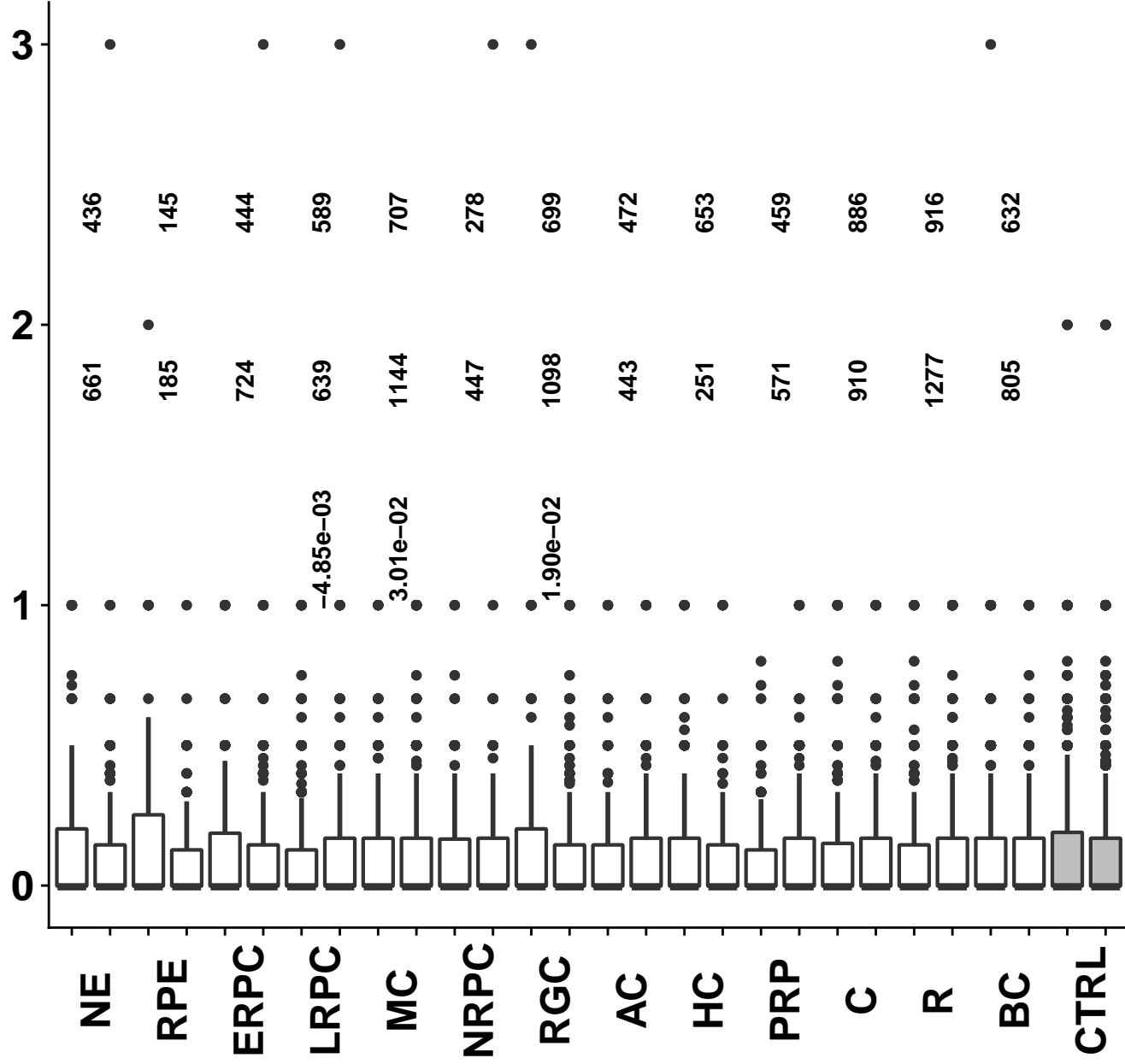
Arid5a_3_mean



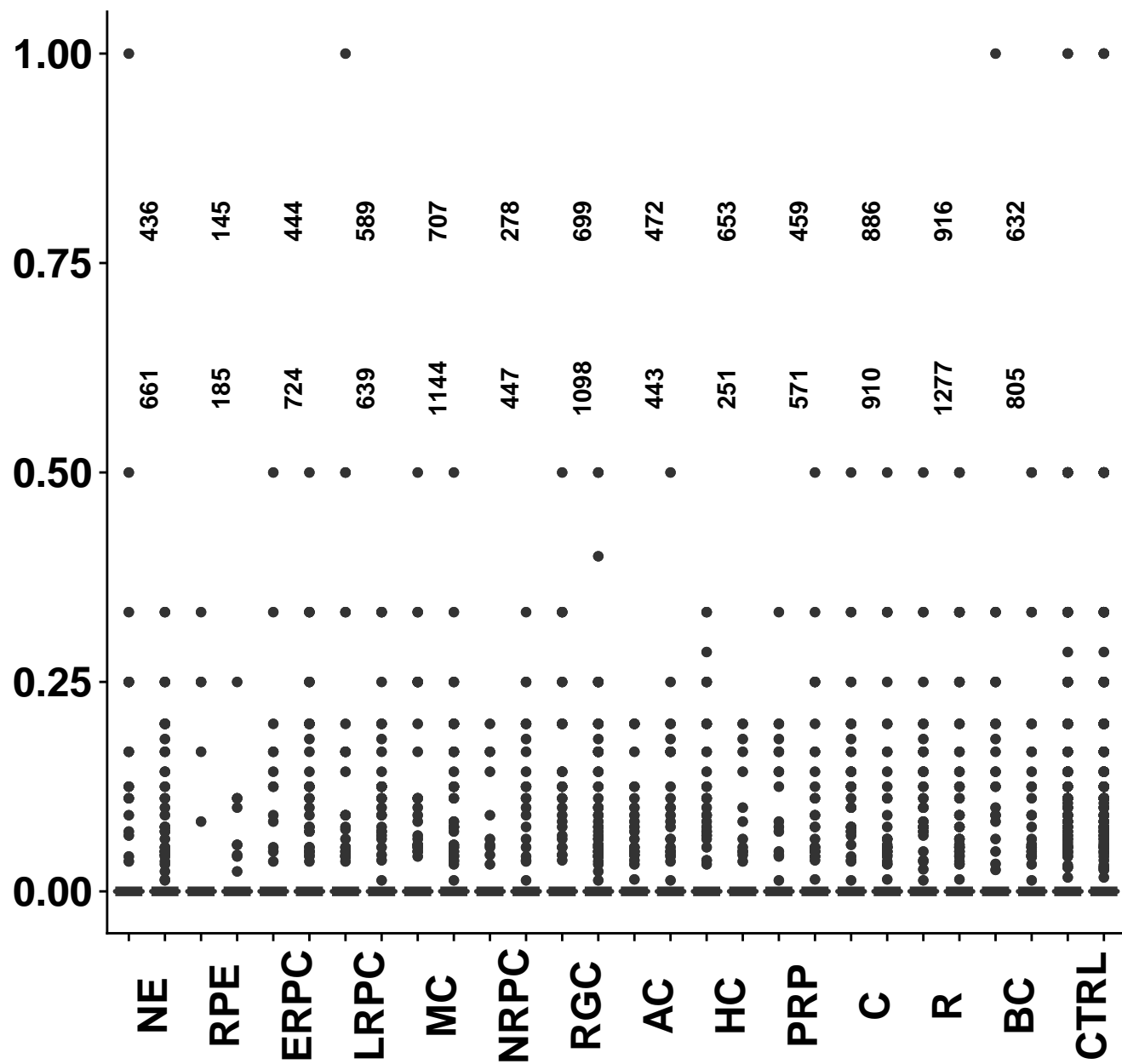
Ctcf_1_mean



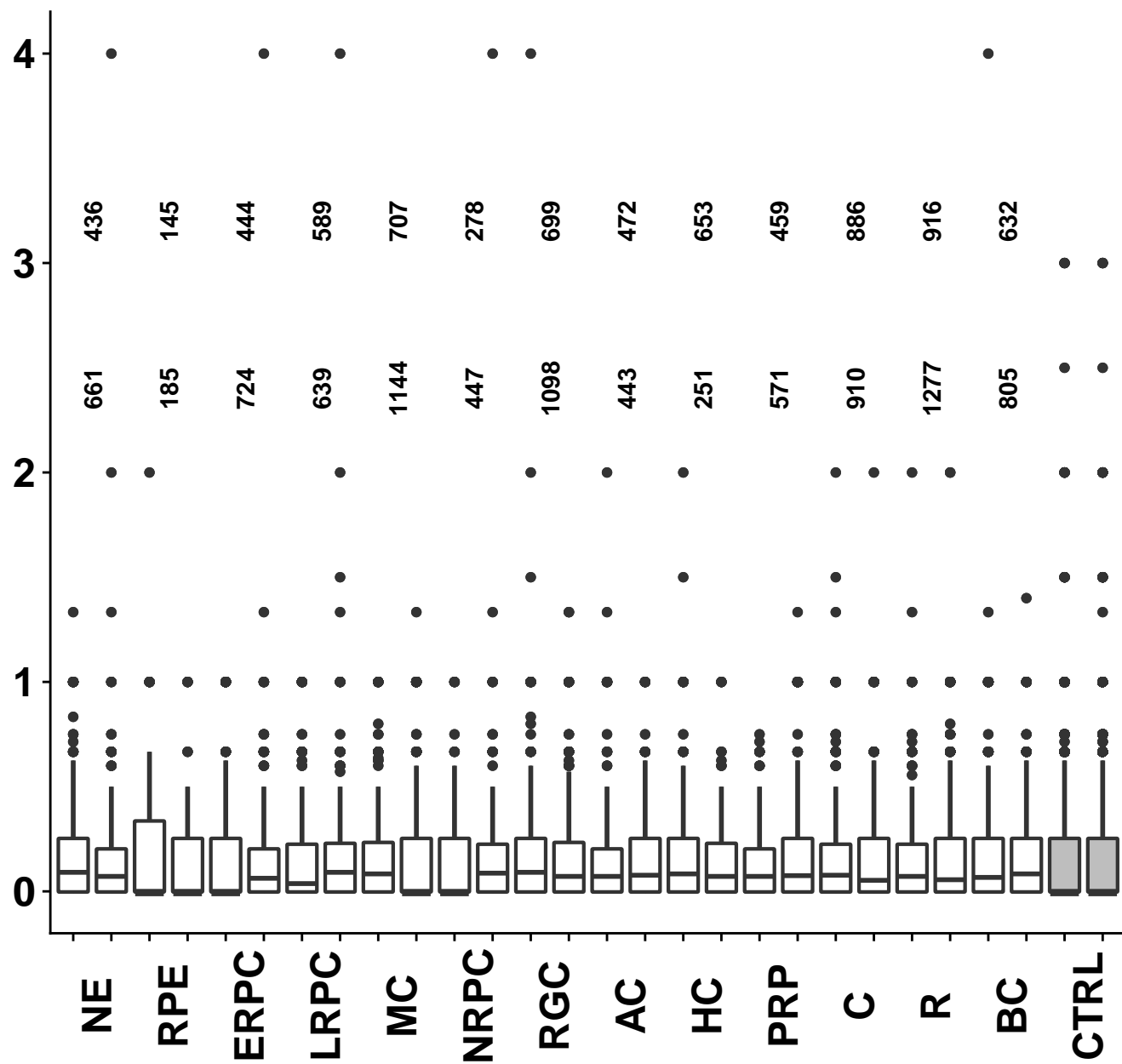
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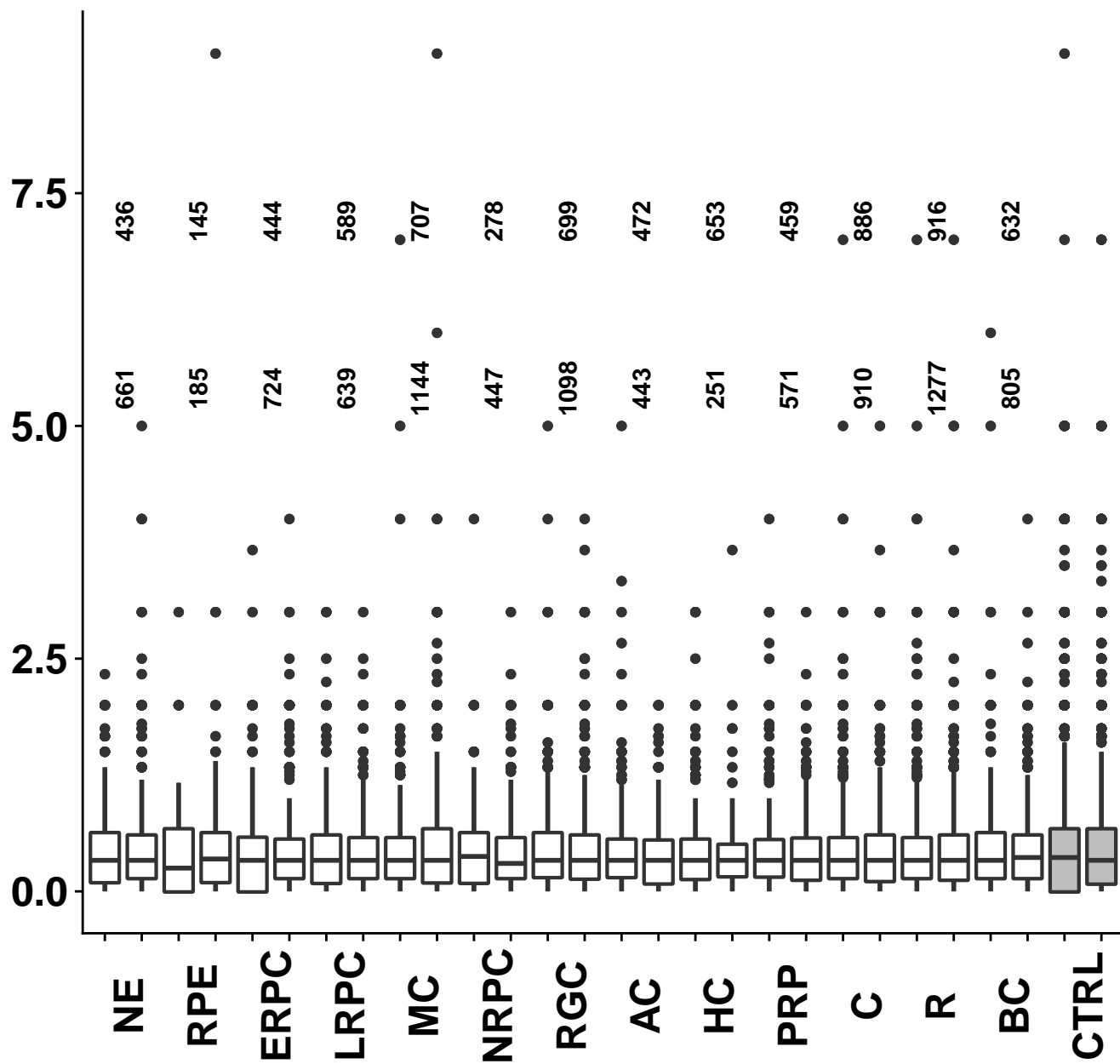
Ctcf_3_mean



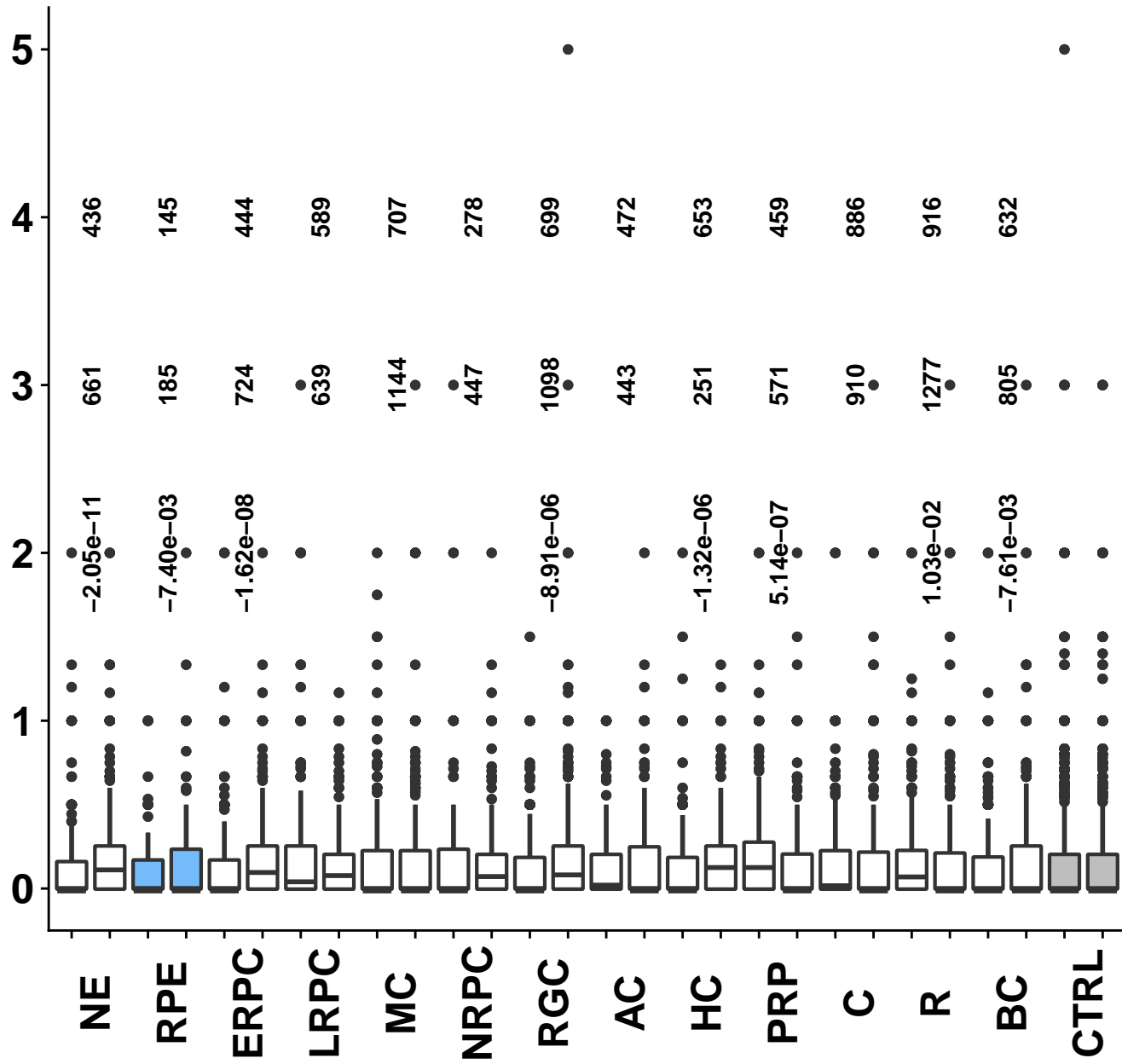
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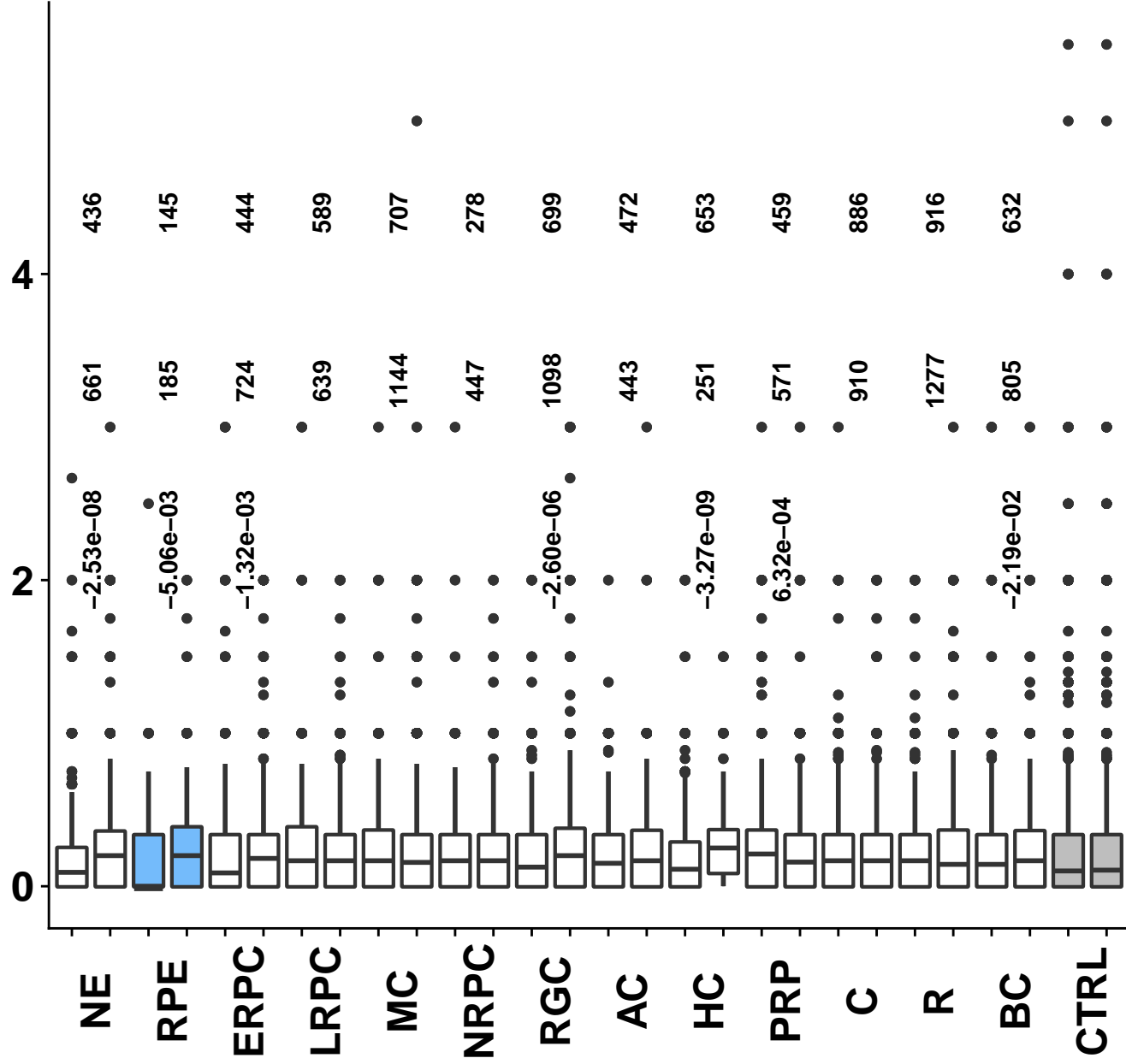
Ctcf_5_mean



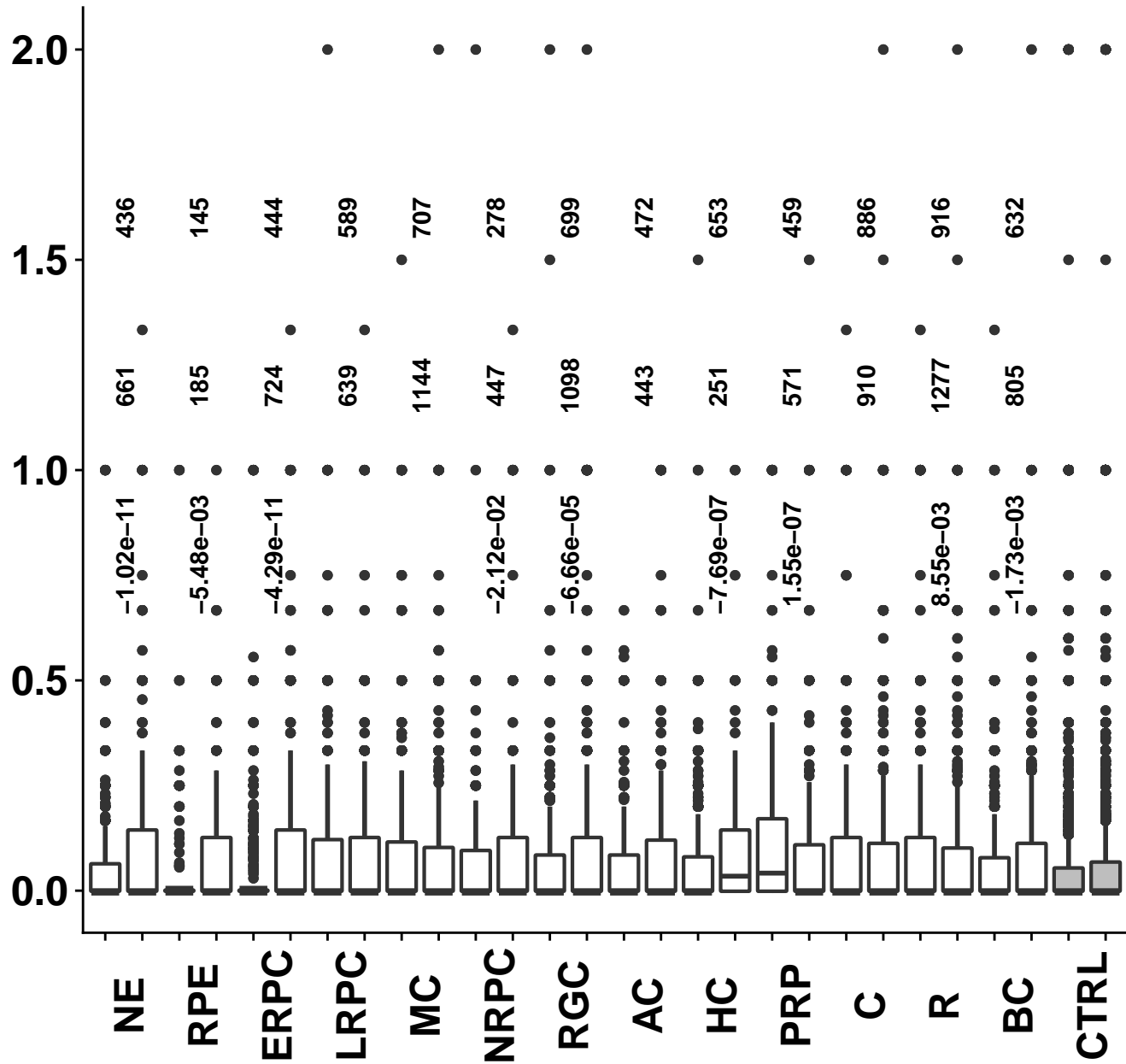
Foxj1_1_mean



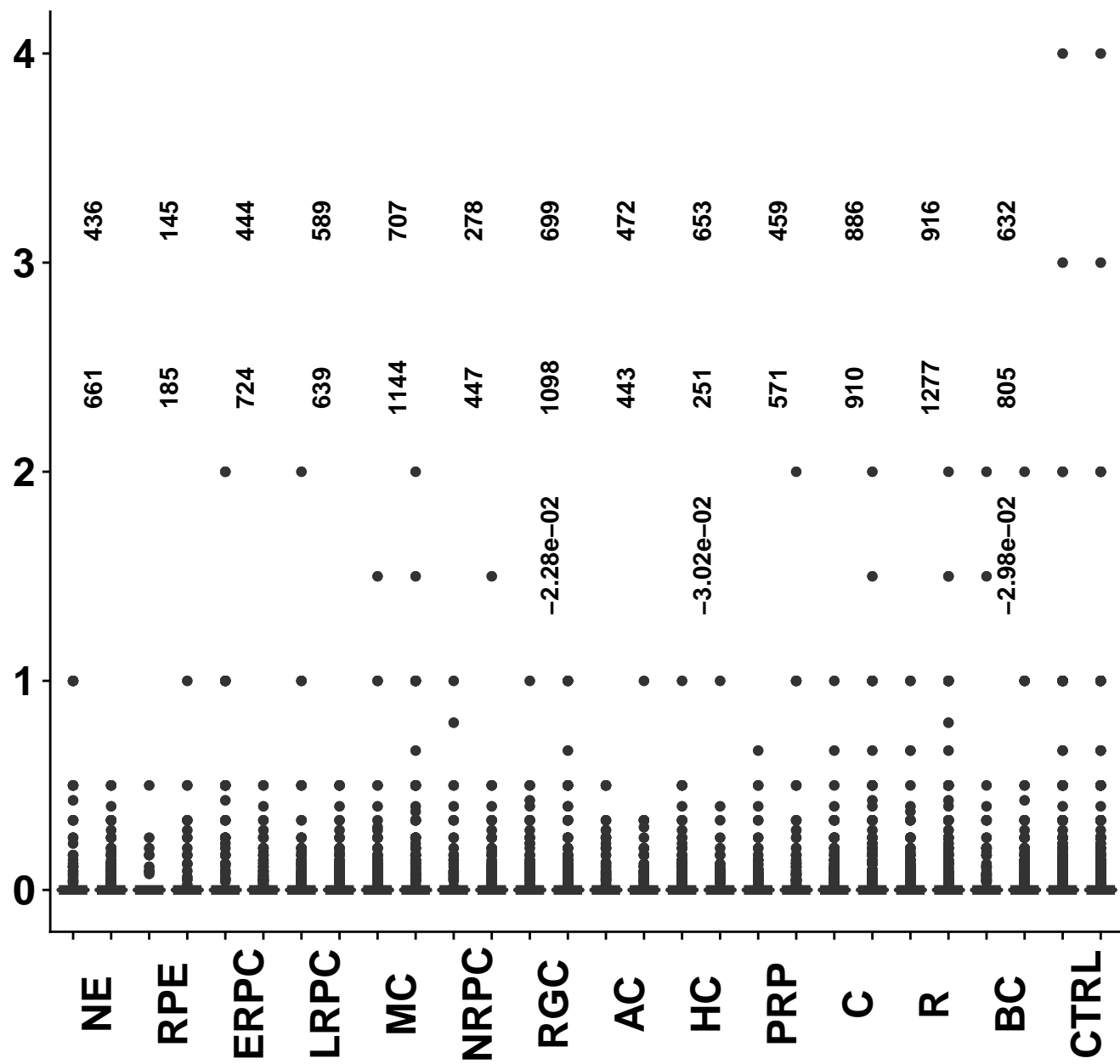
Foxj1_2_mean



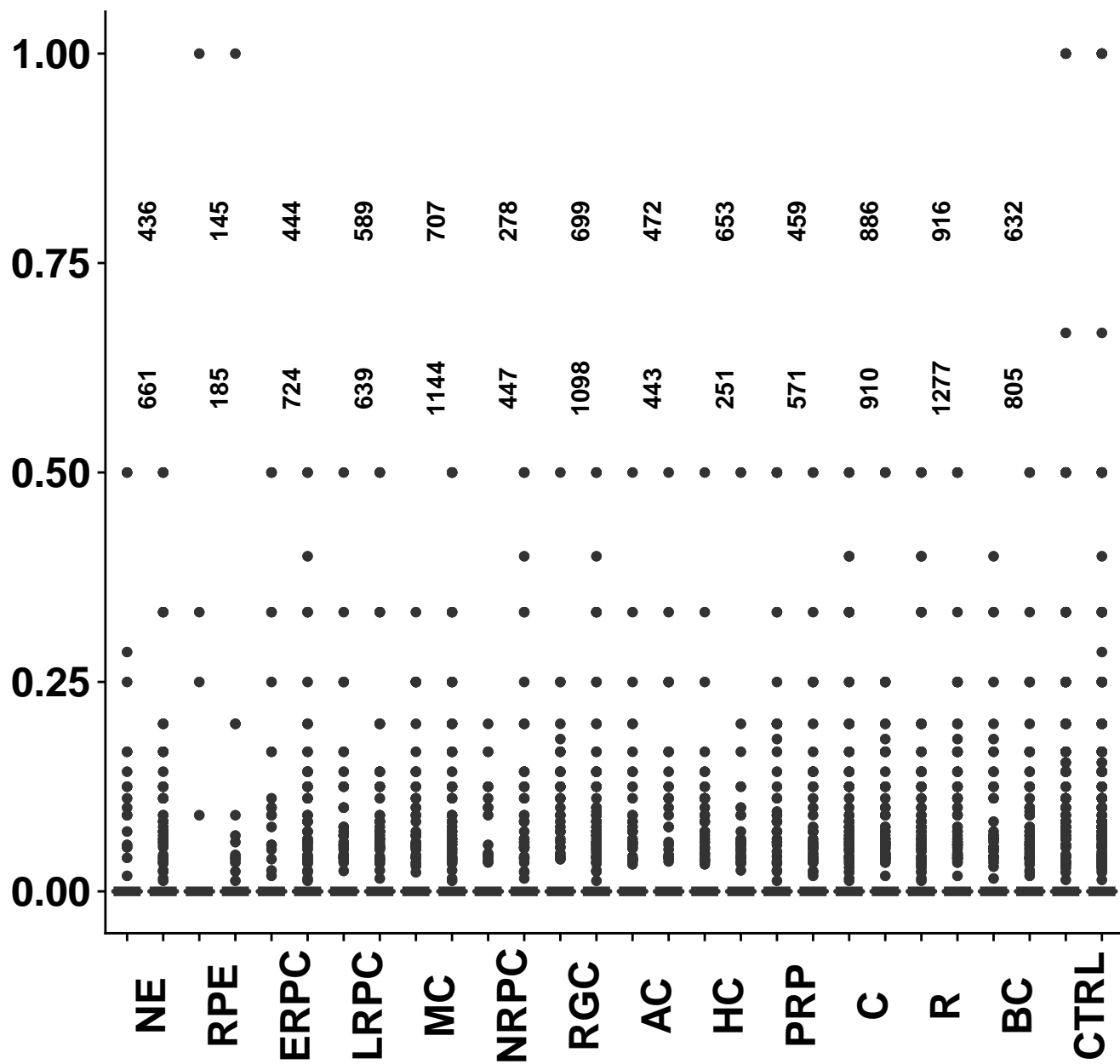
Foxp2_1_mean



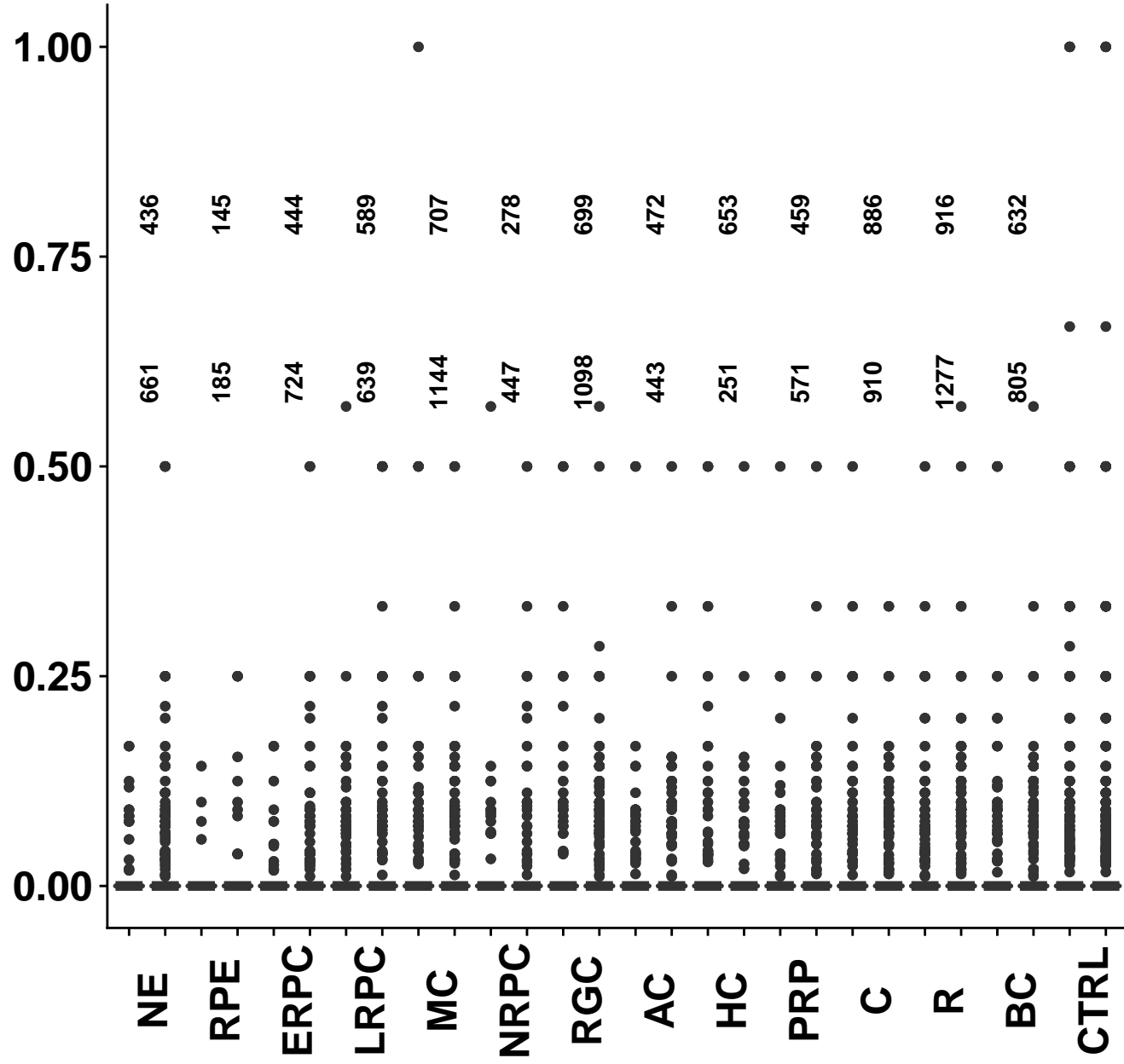
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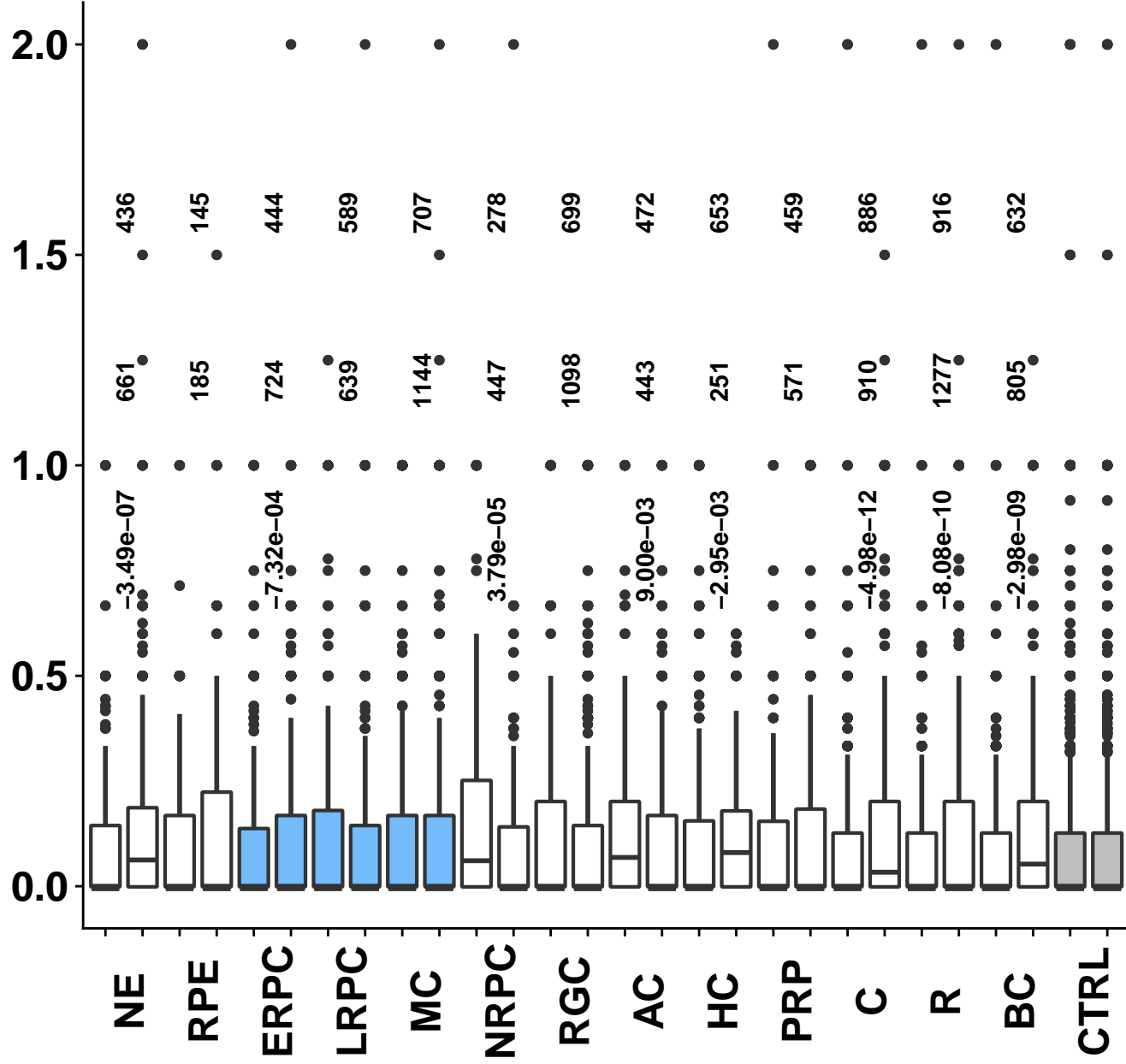
Mecom_1_mean



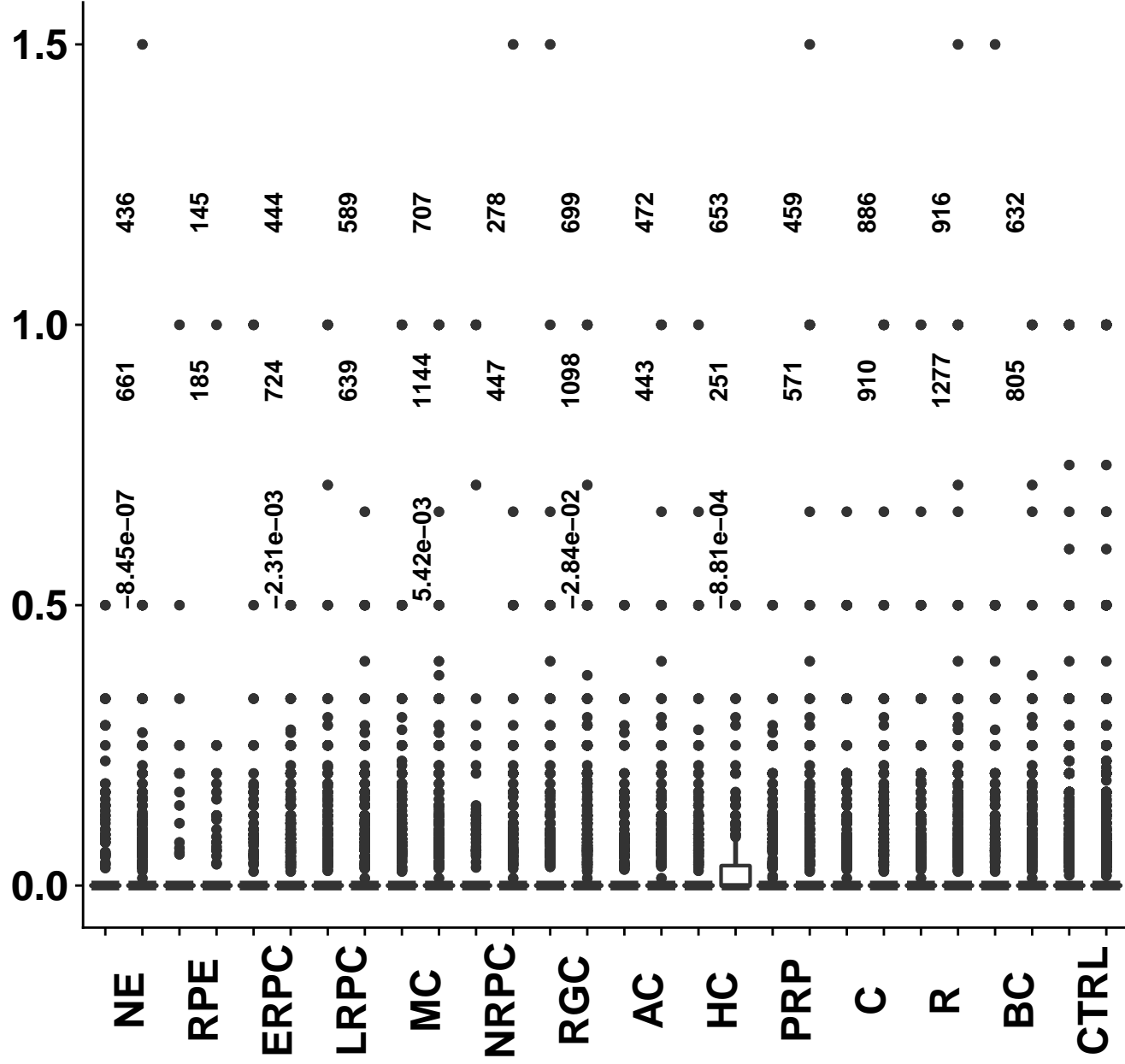
Sox2_1_mean



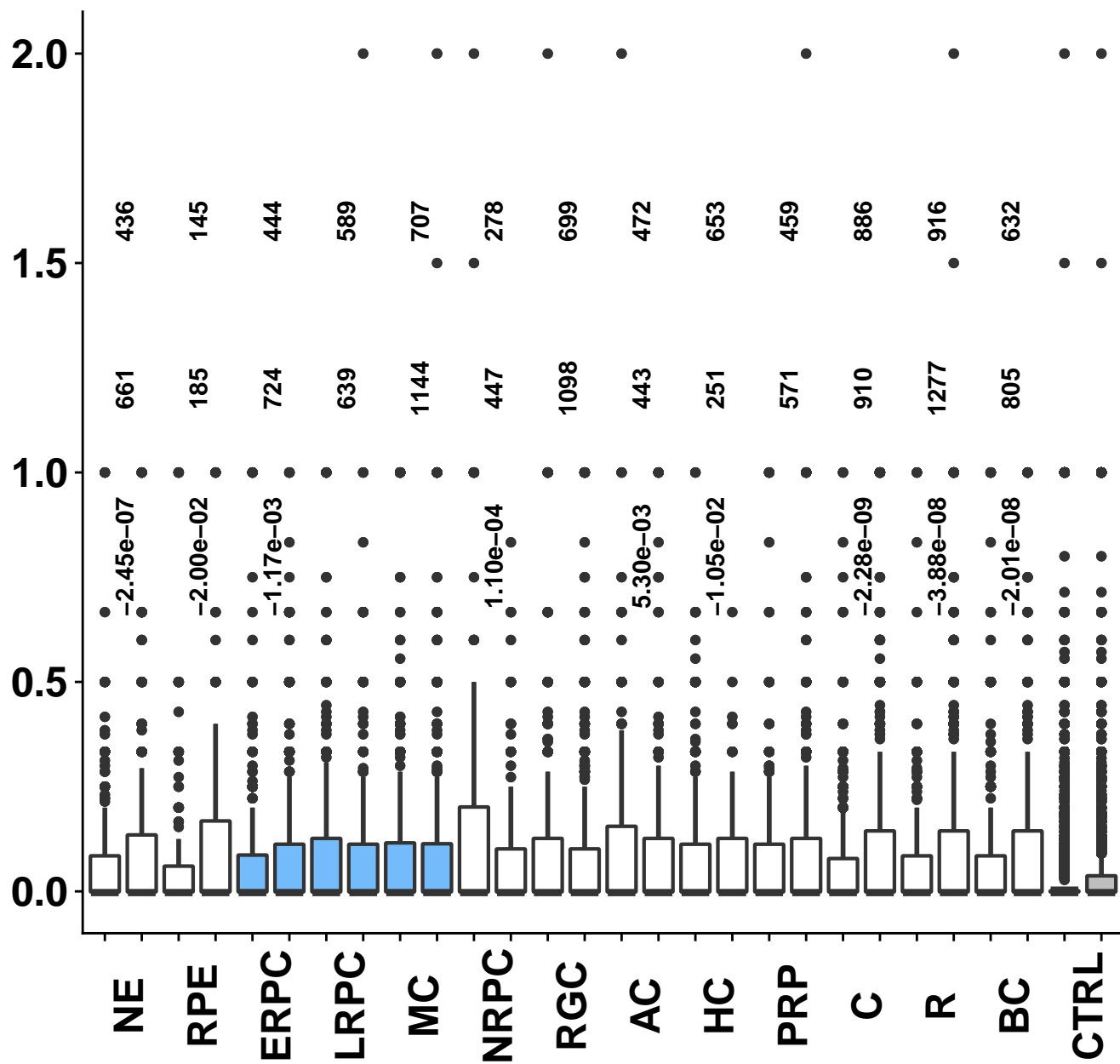
Sox2_2_mean



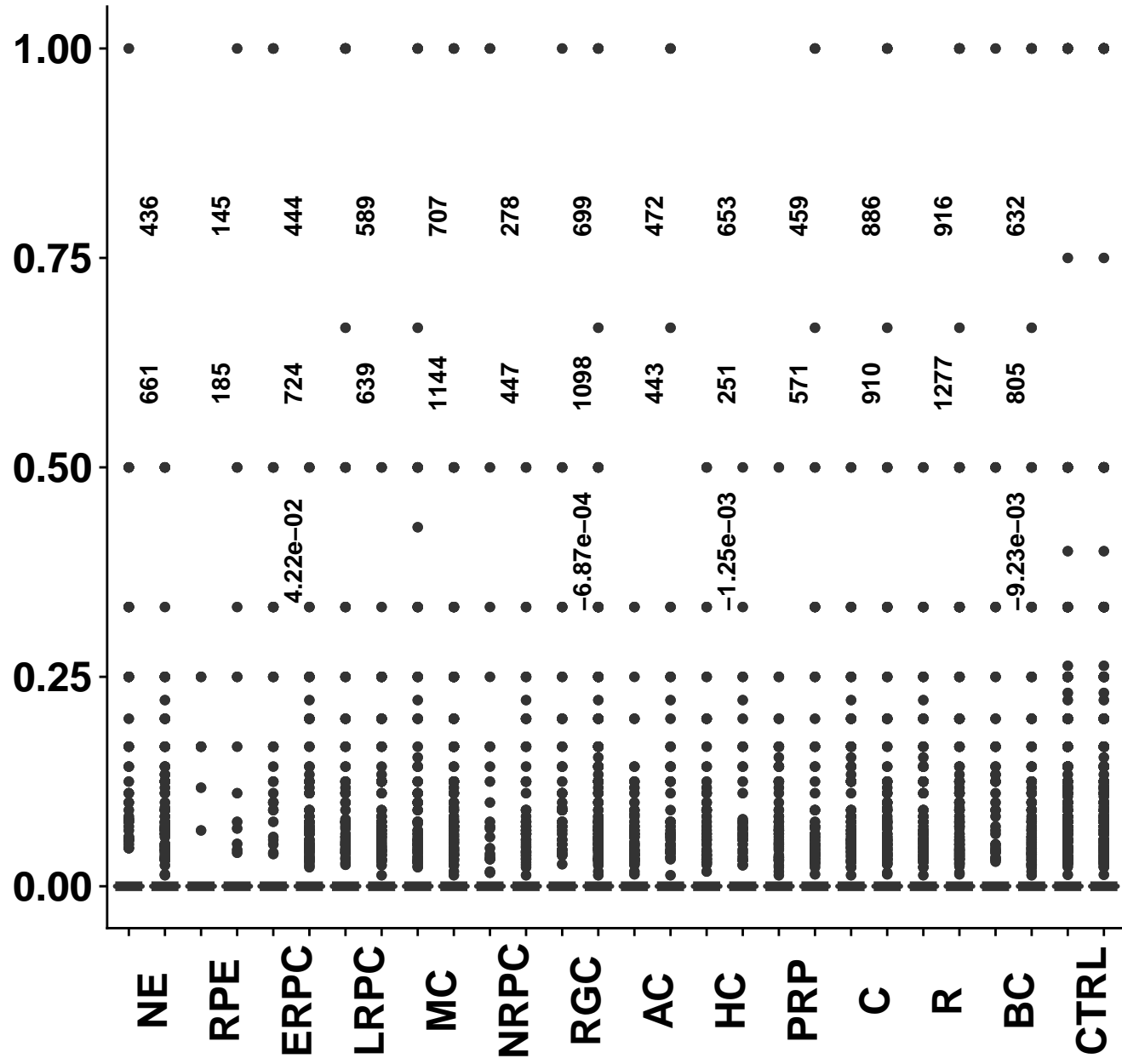
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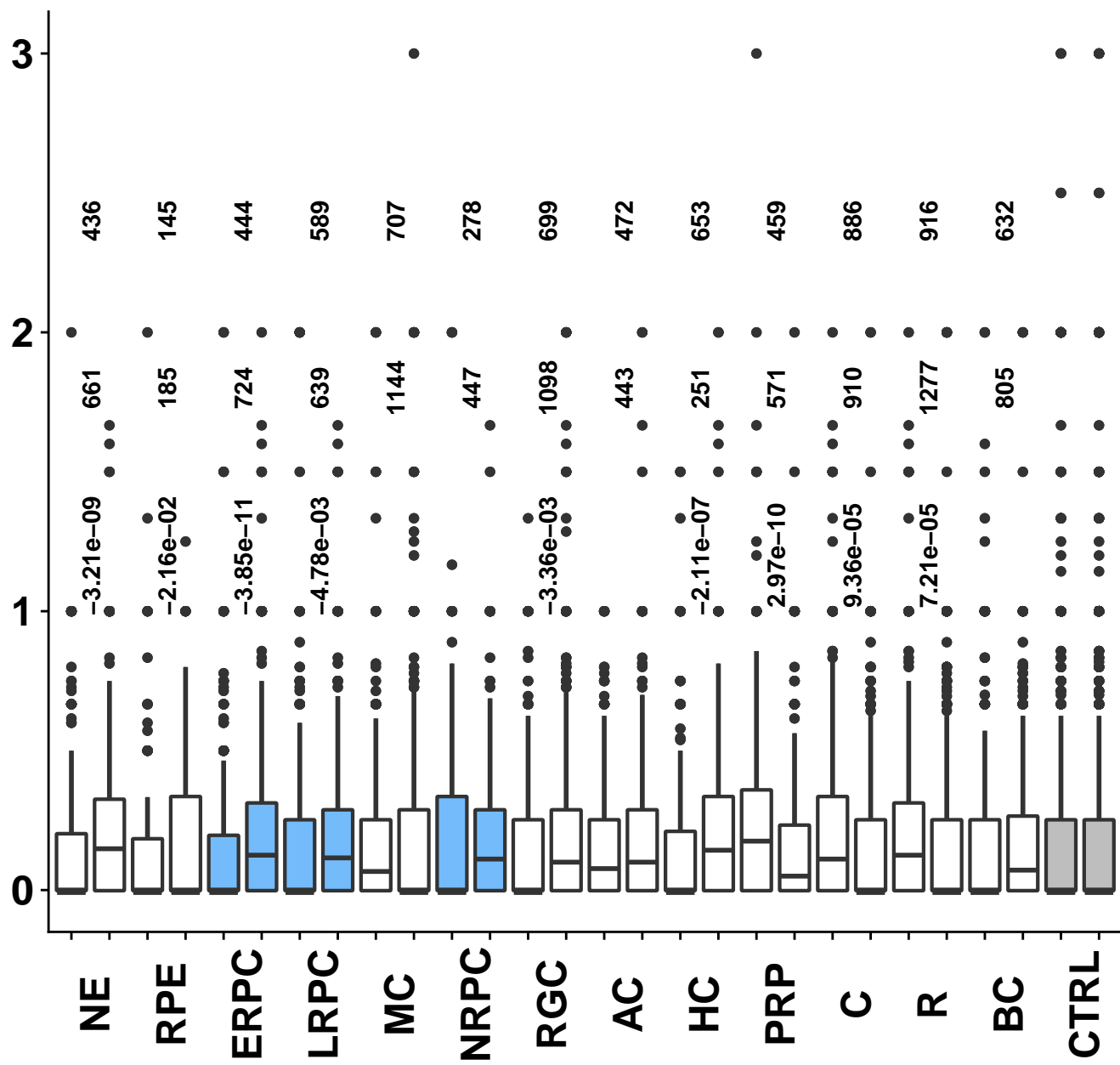
Sox2_4_mean



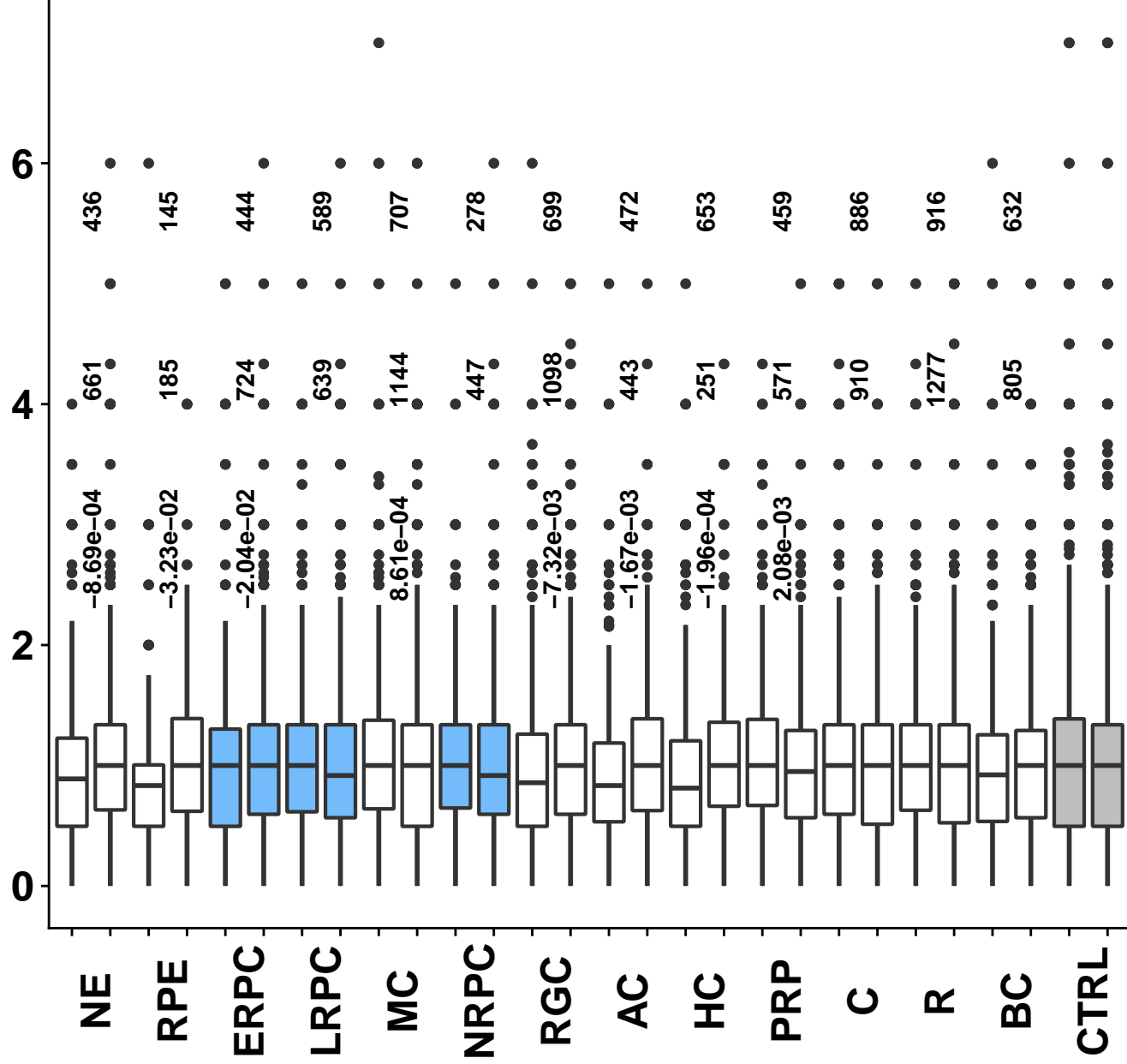
Tcf3_1_mean



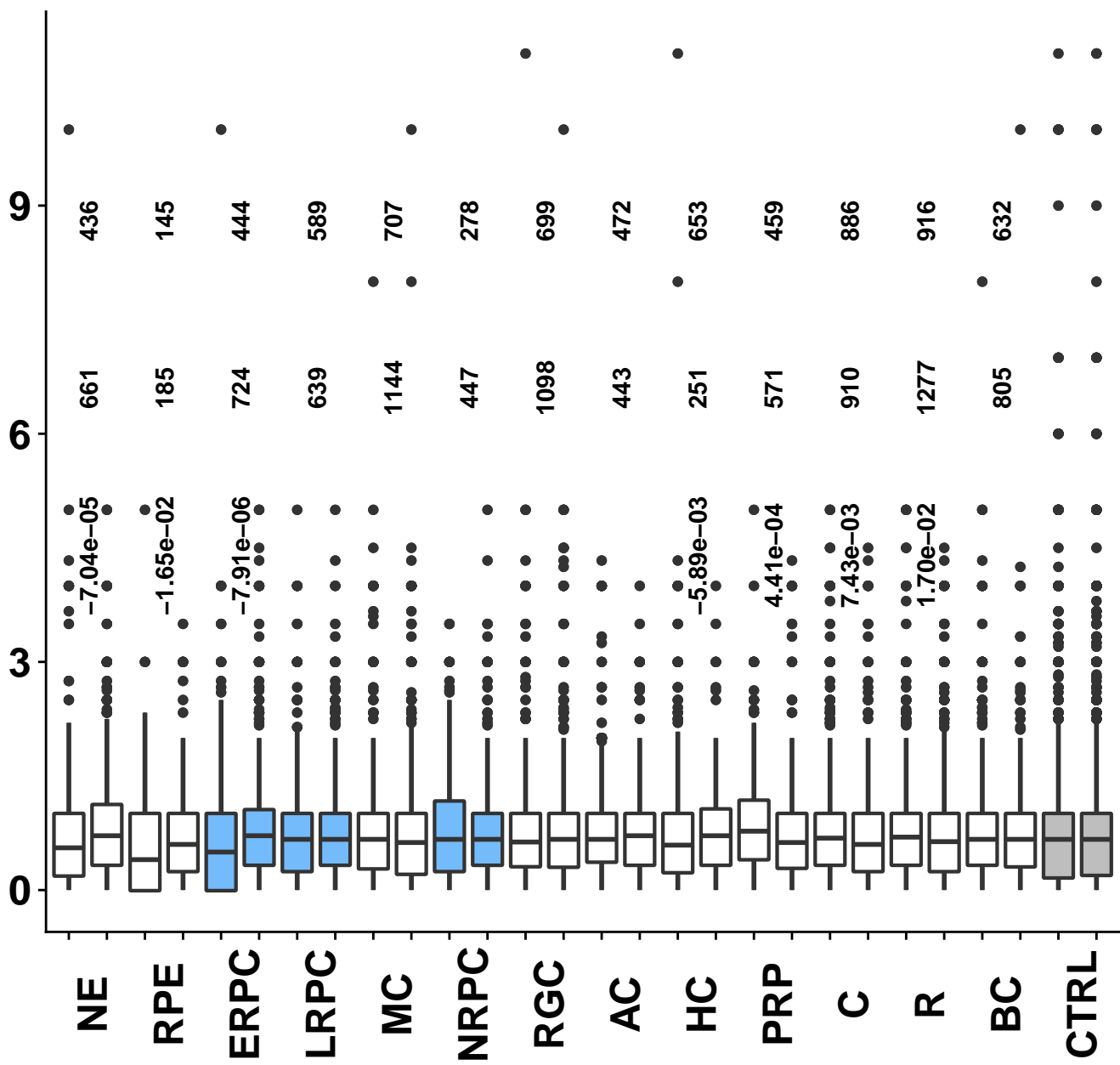
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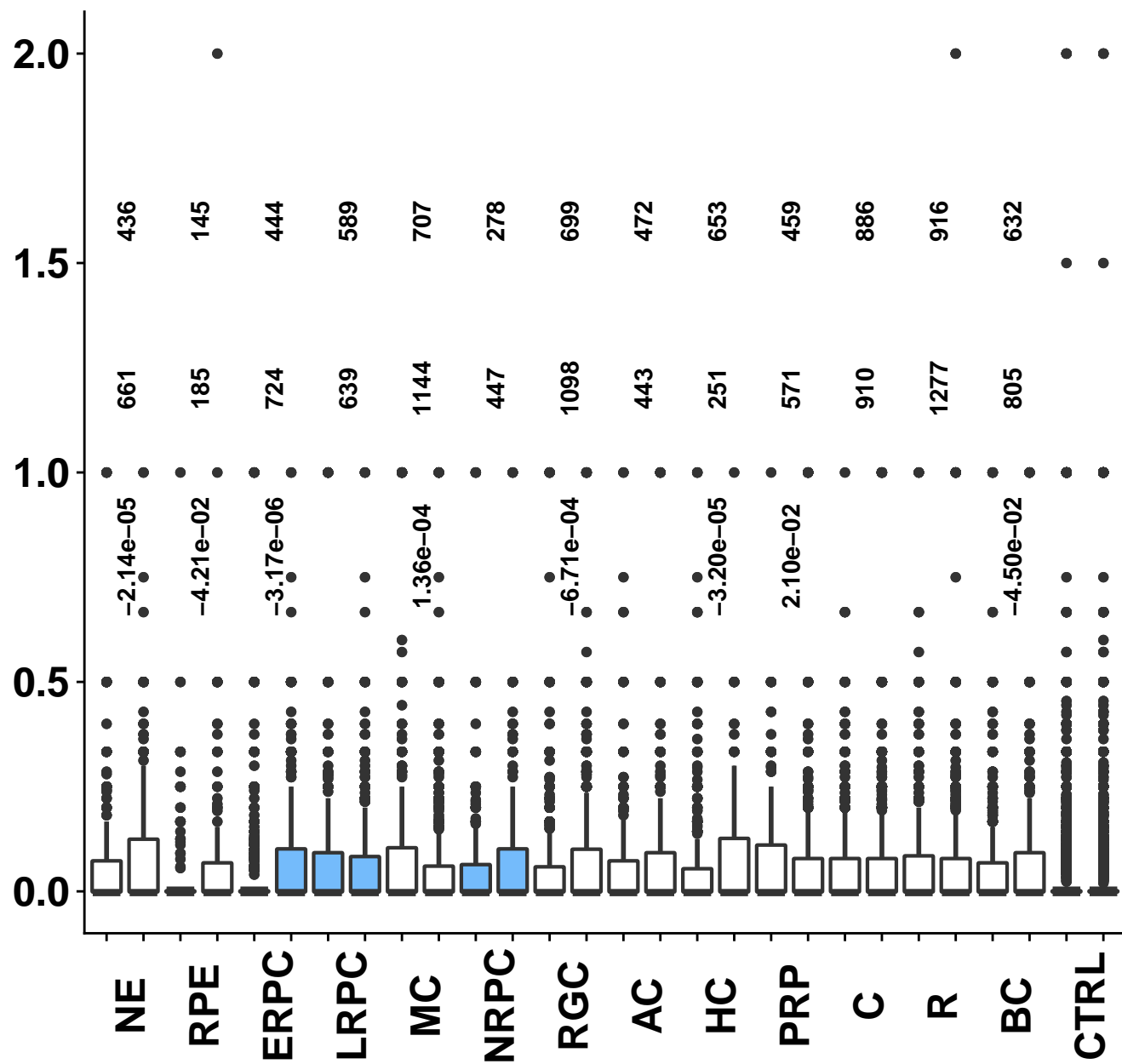
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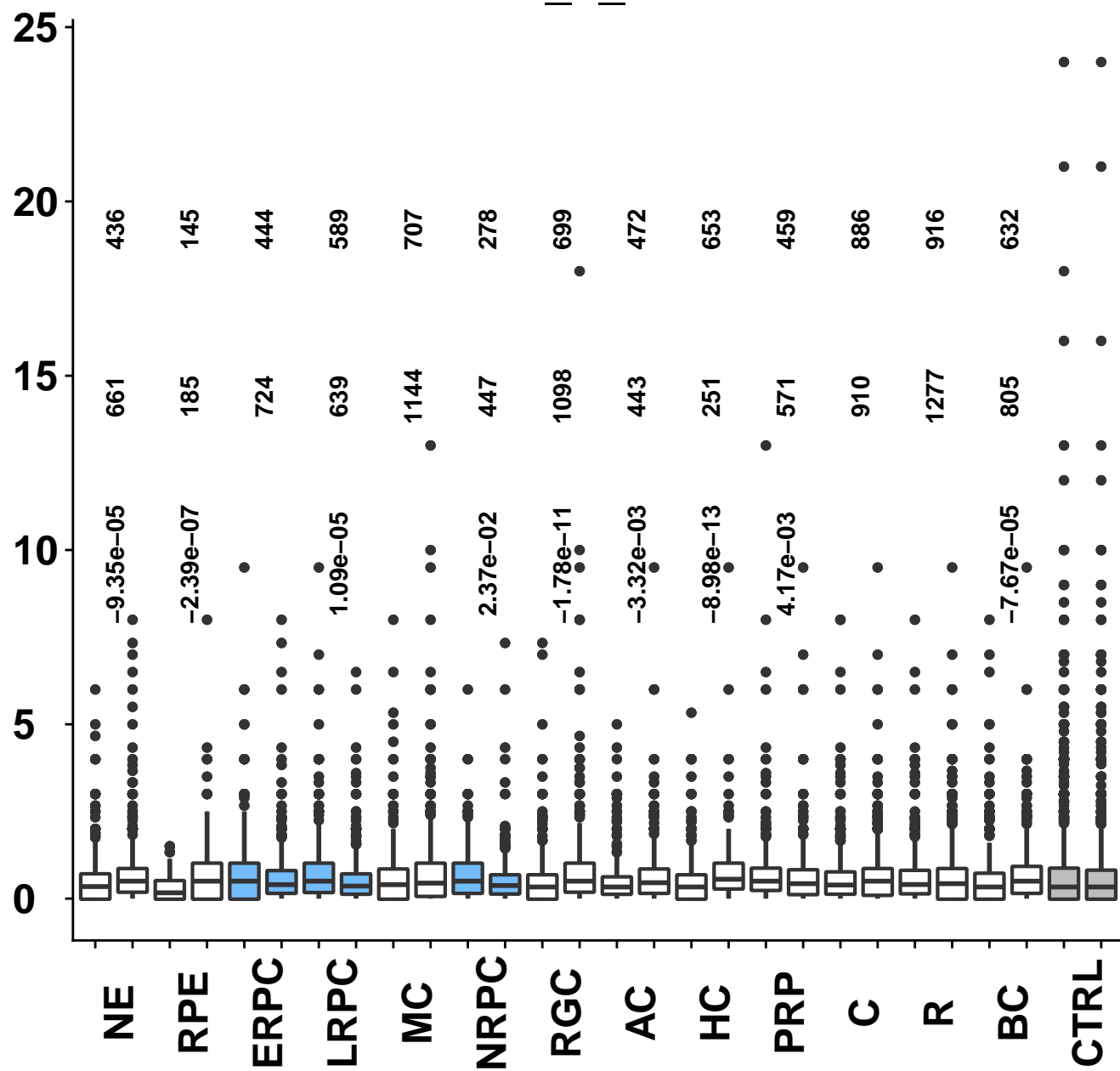
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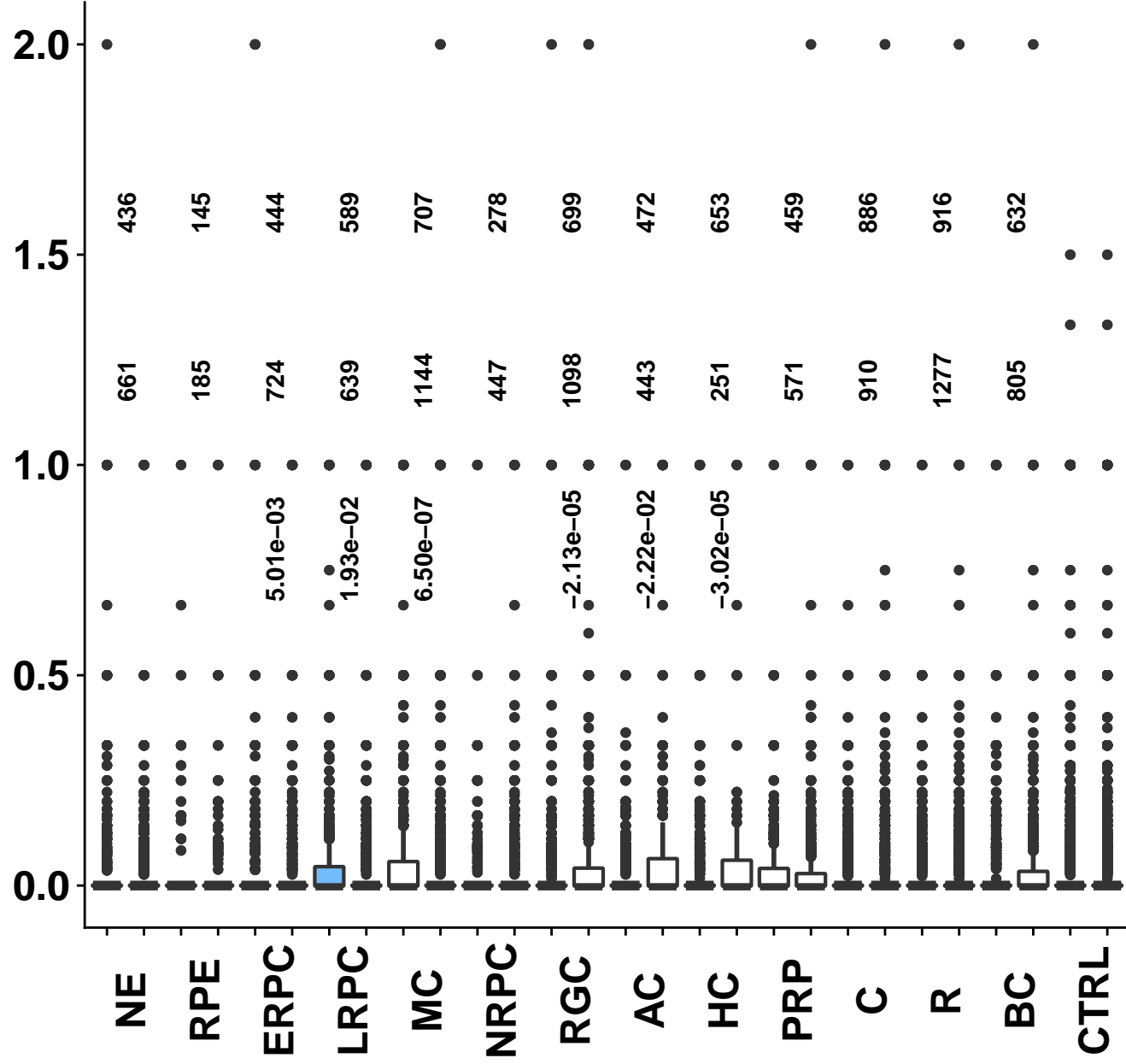
Tcf3_5_mean



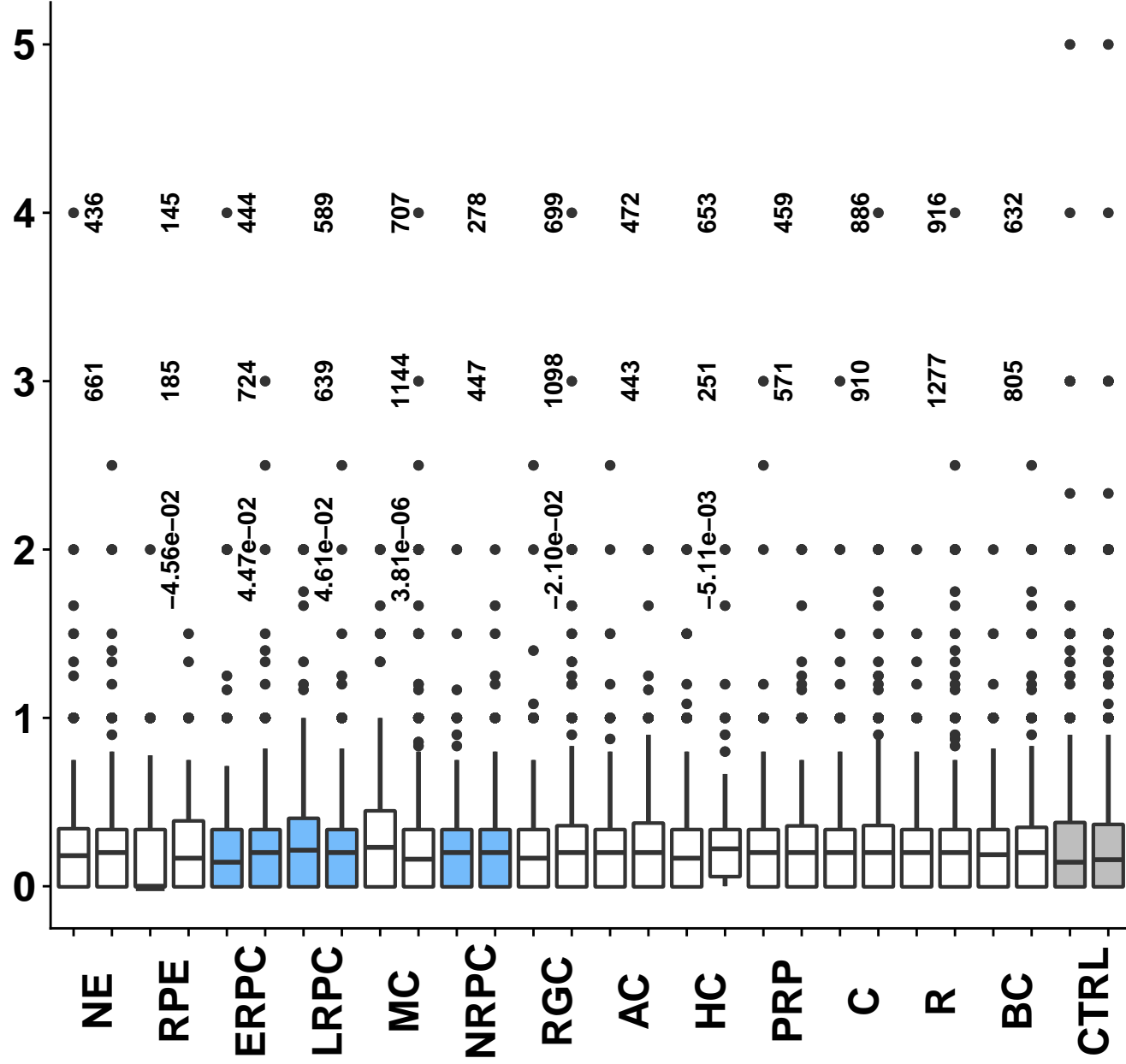
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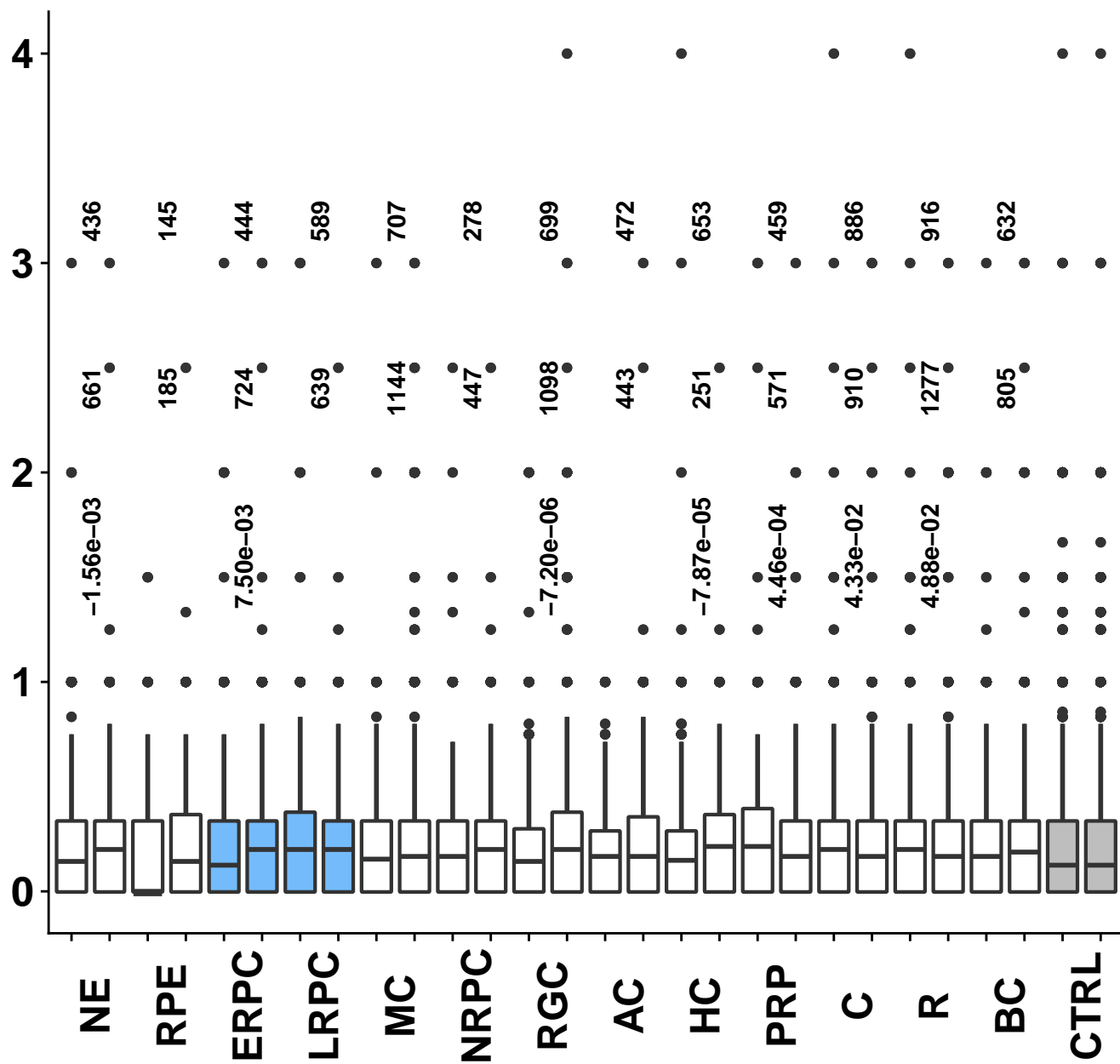
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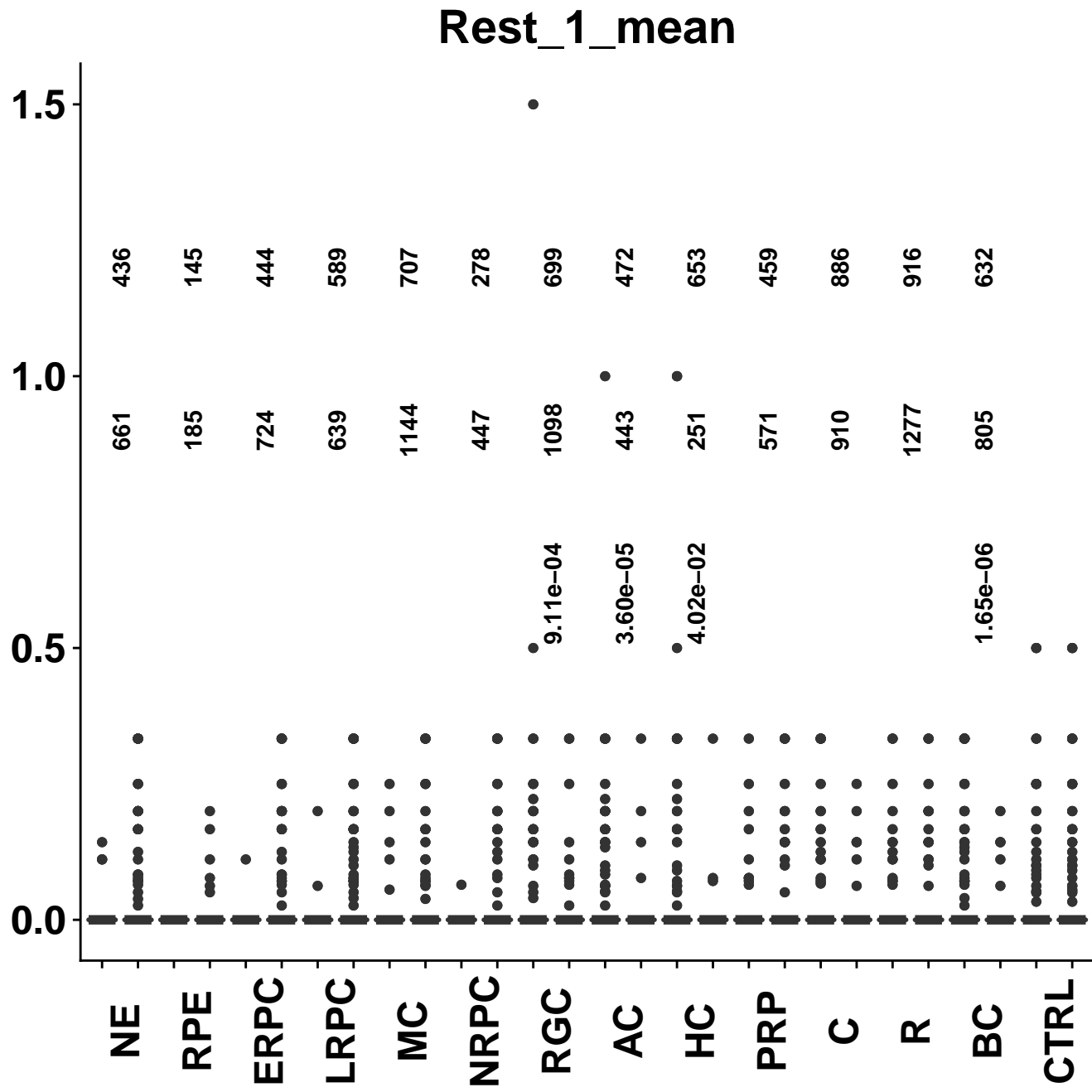


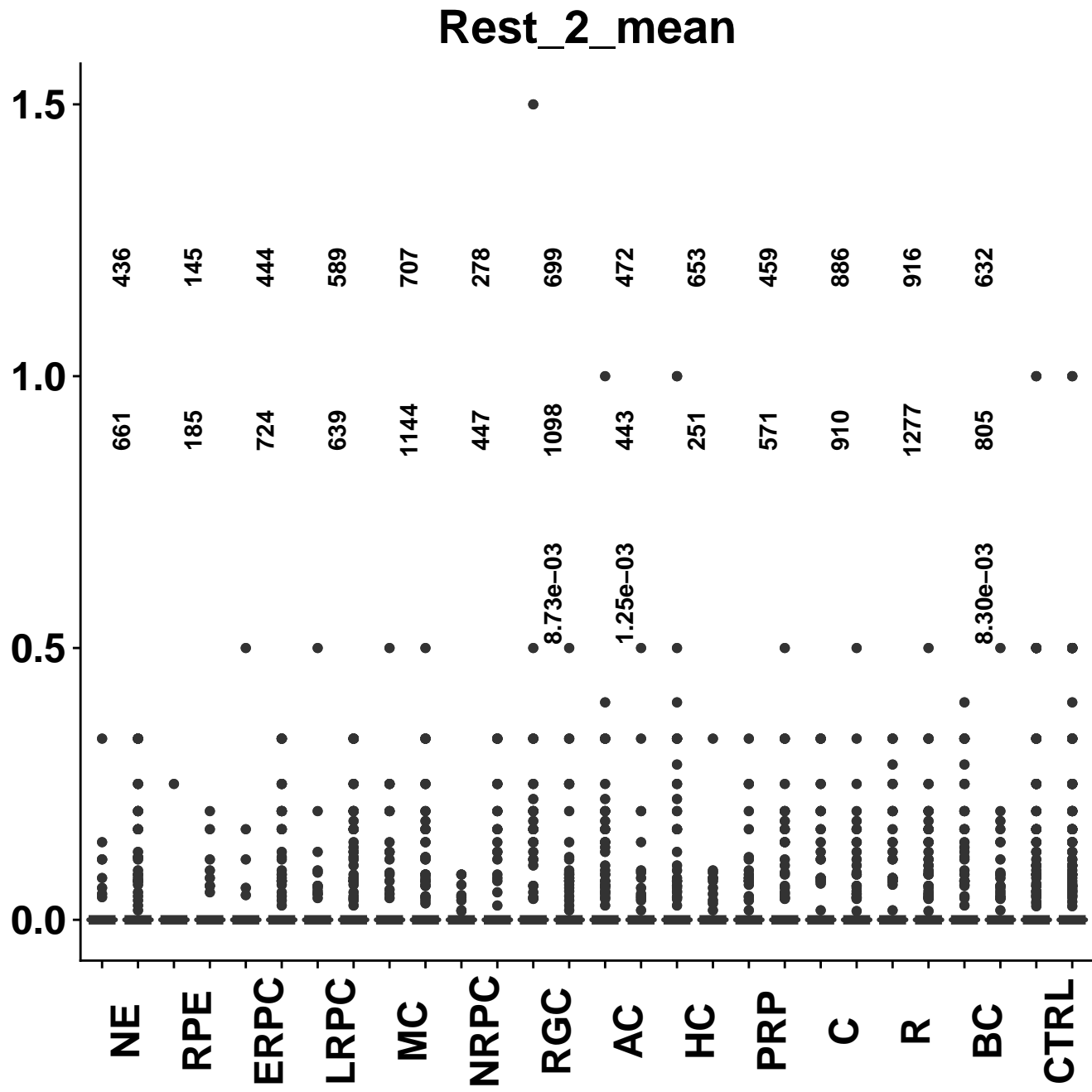
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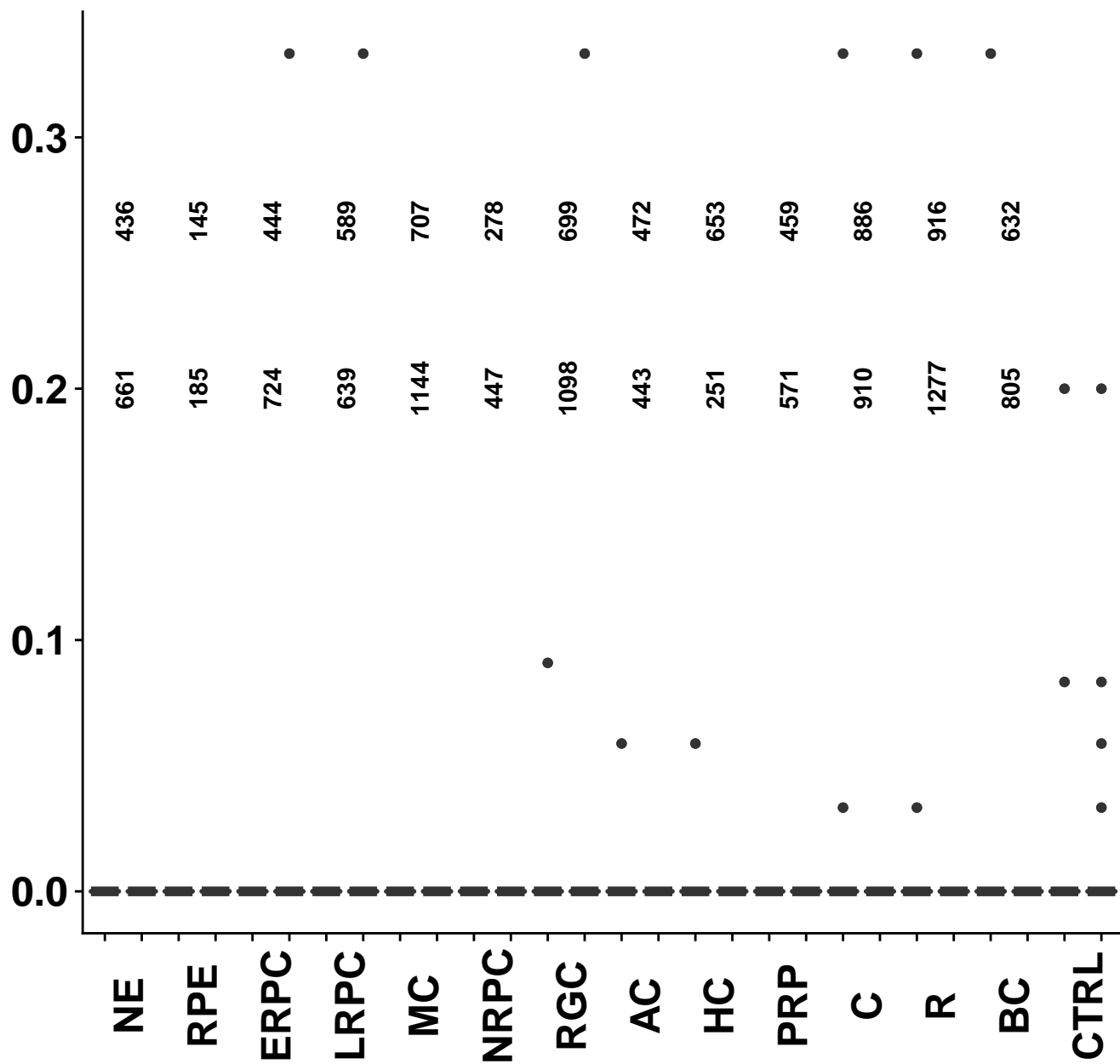
Nr2e1_1_mean



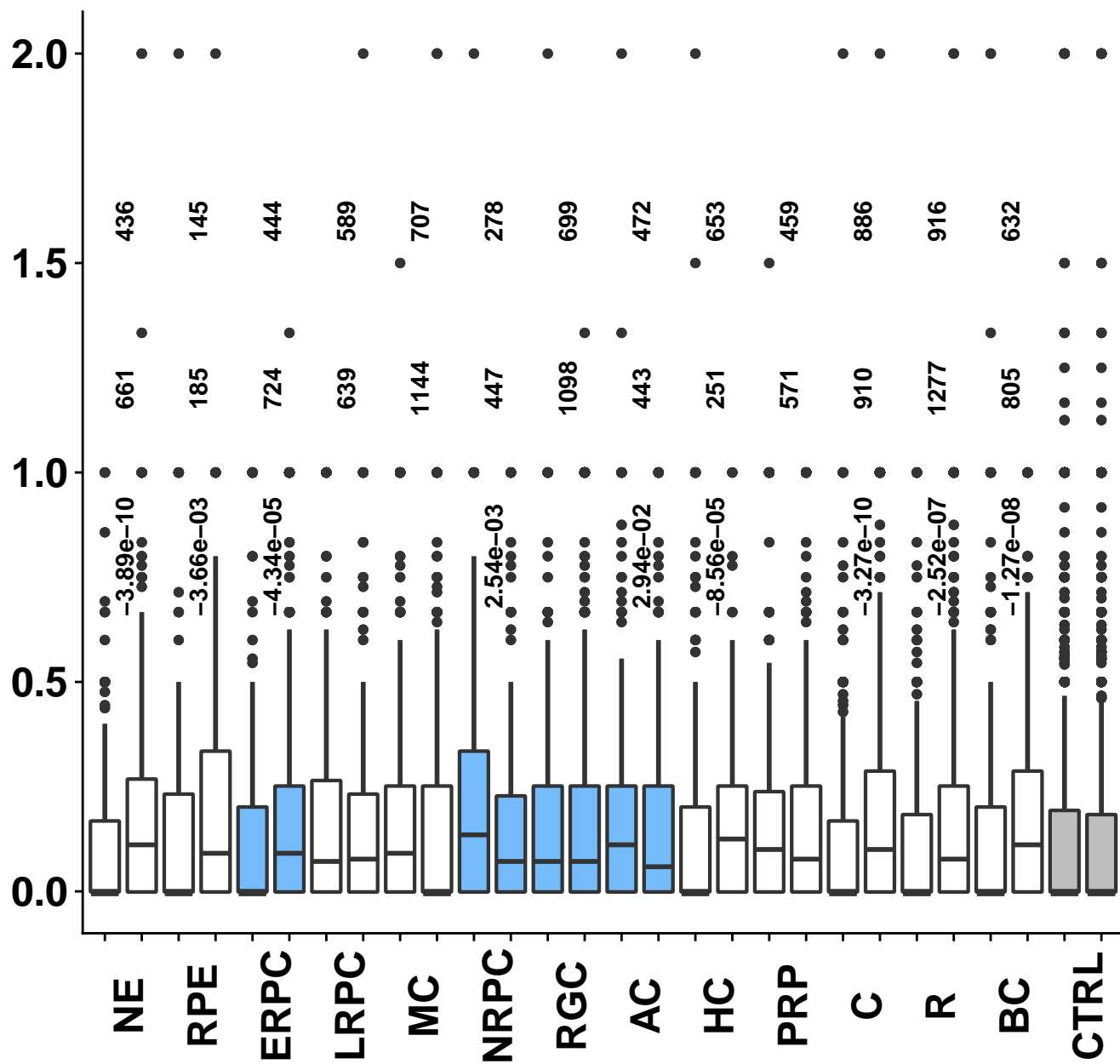




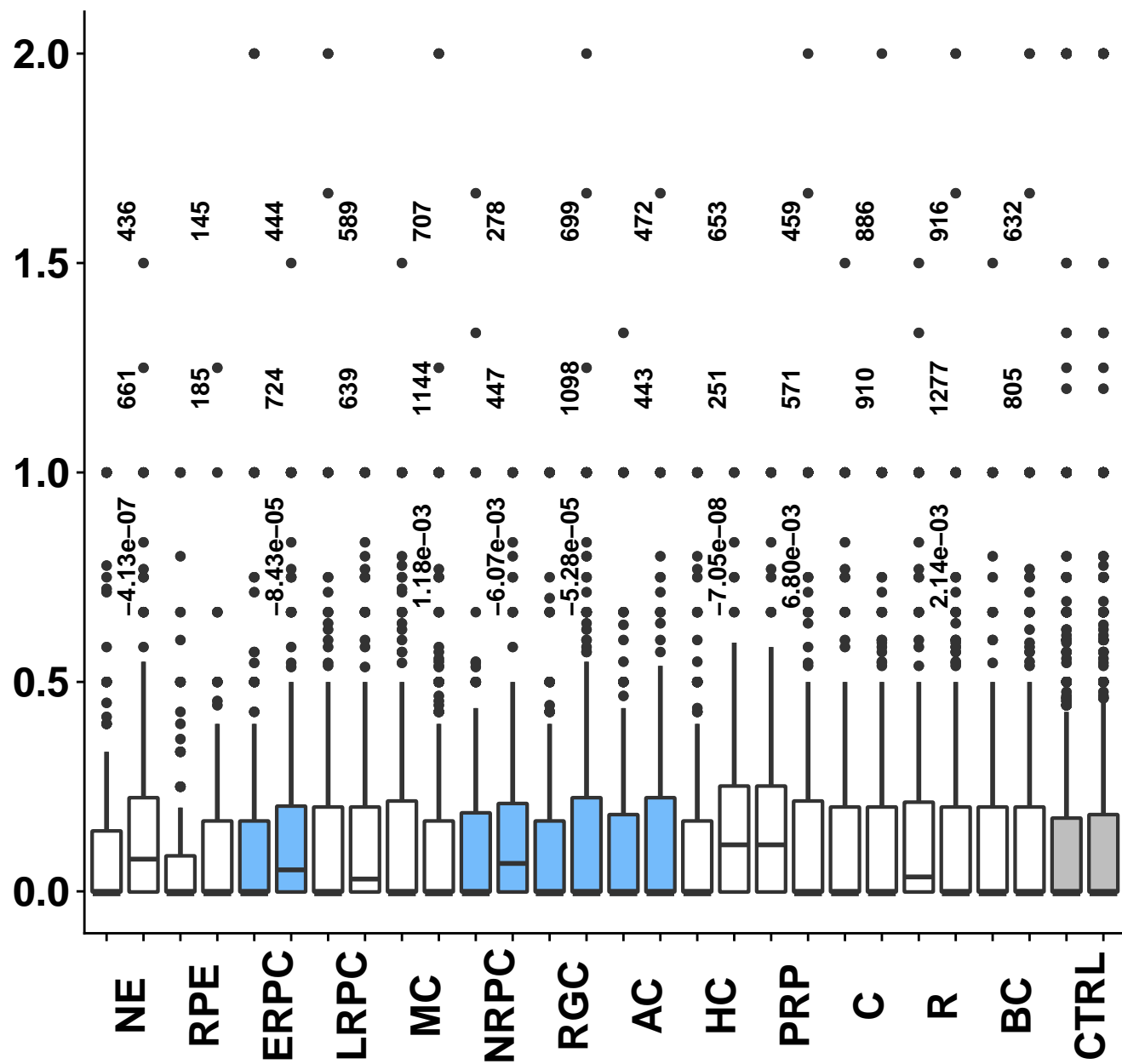
Sox11_1_mean



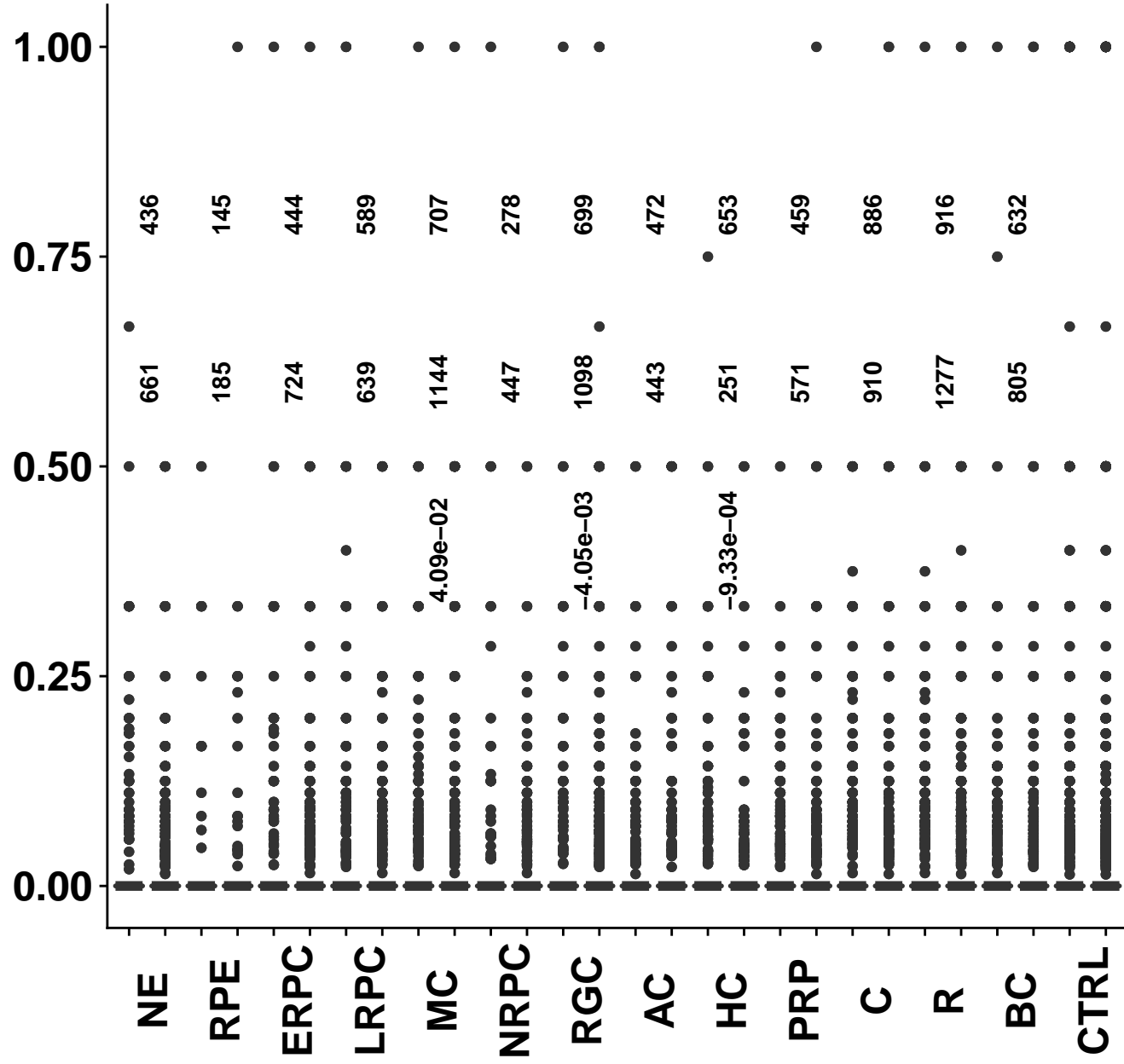
Sox11_2_mean



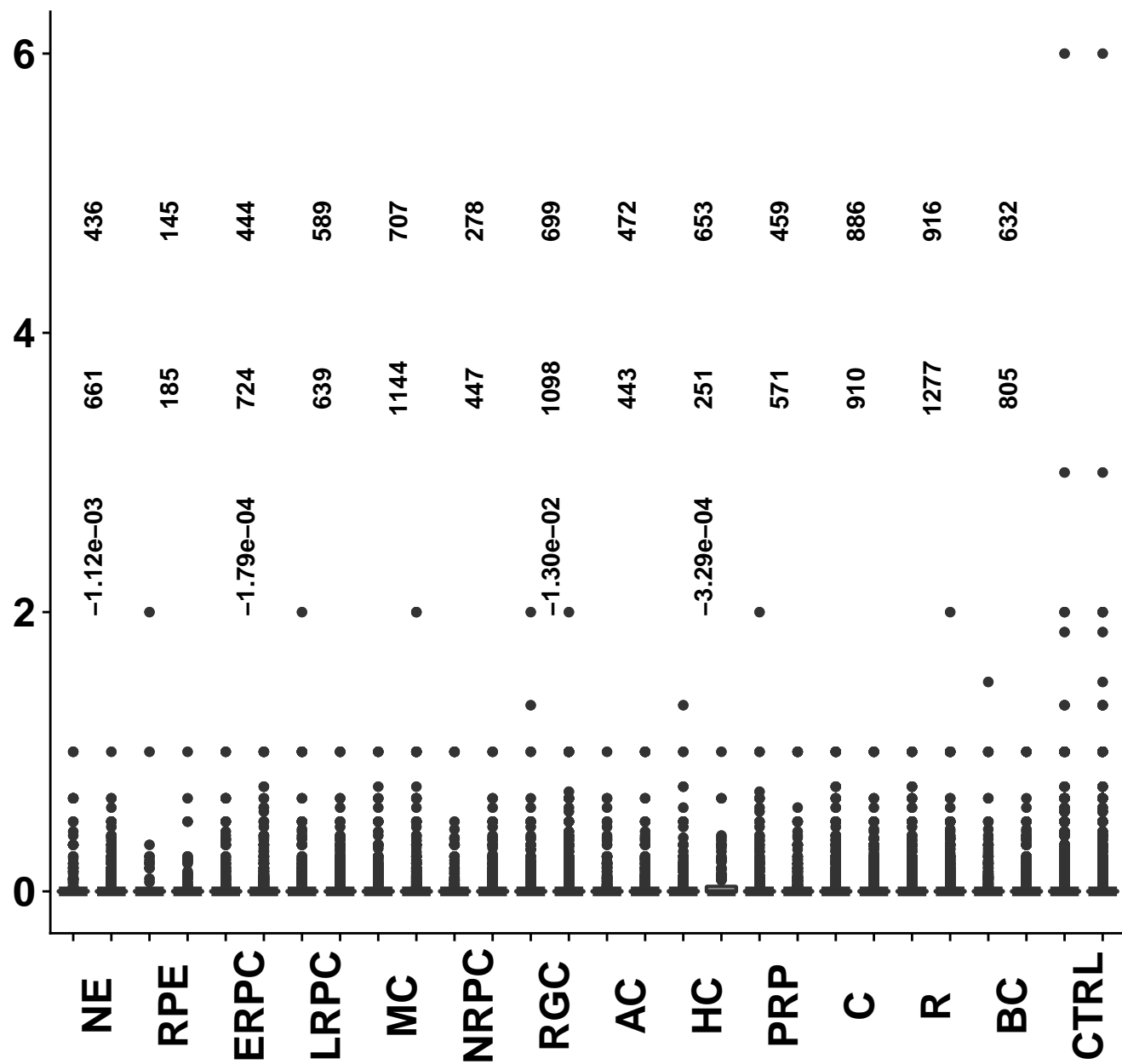
Sox11_3_mean



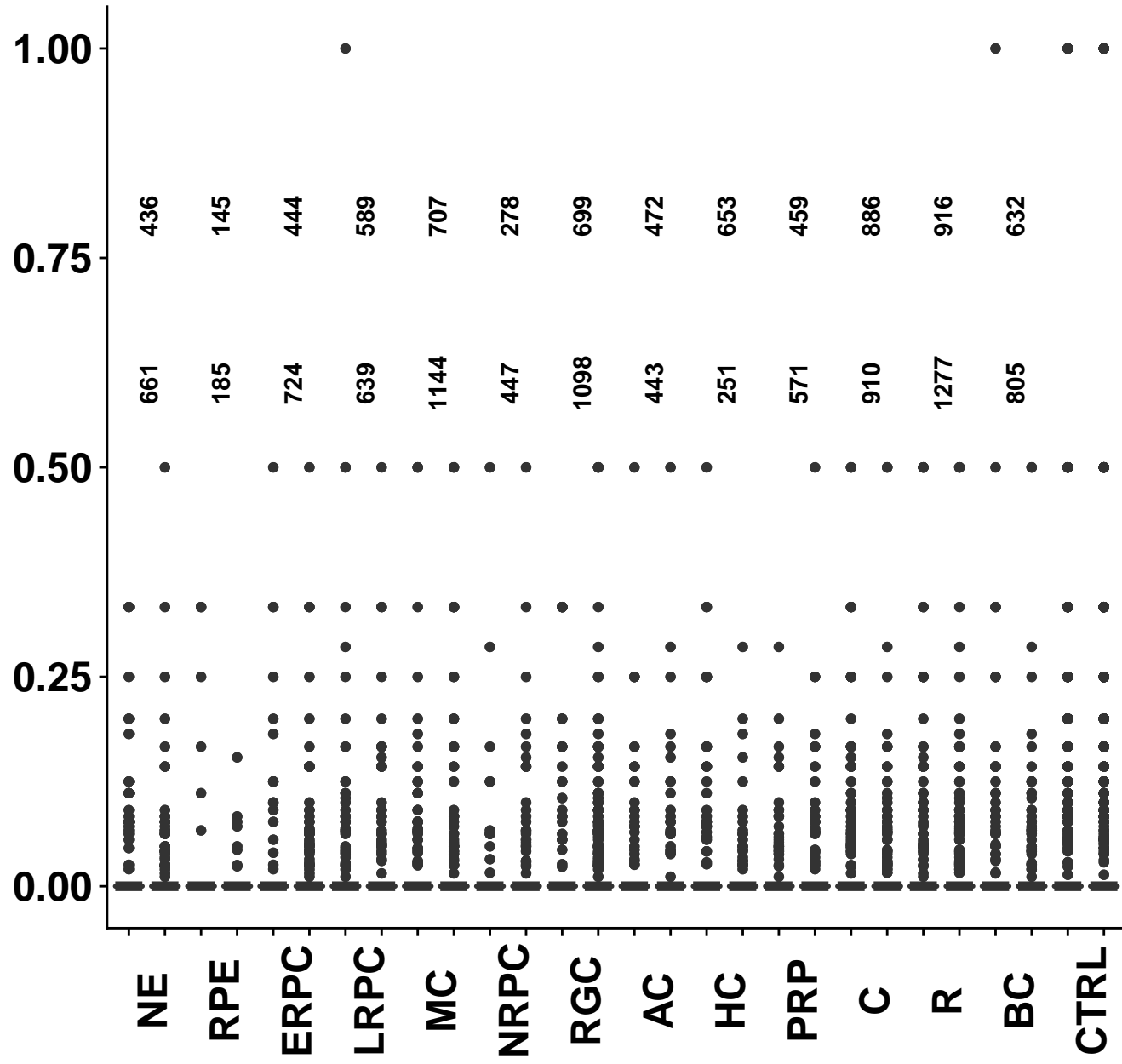
Six6_1_mean



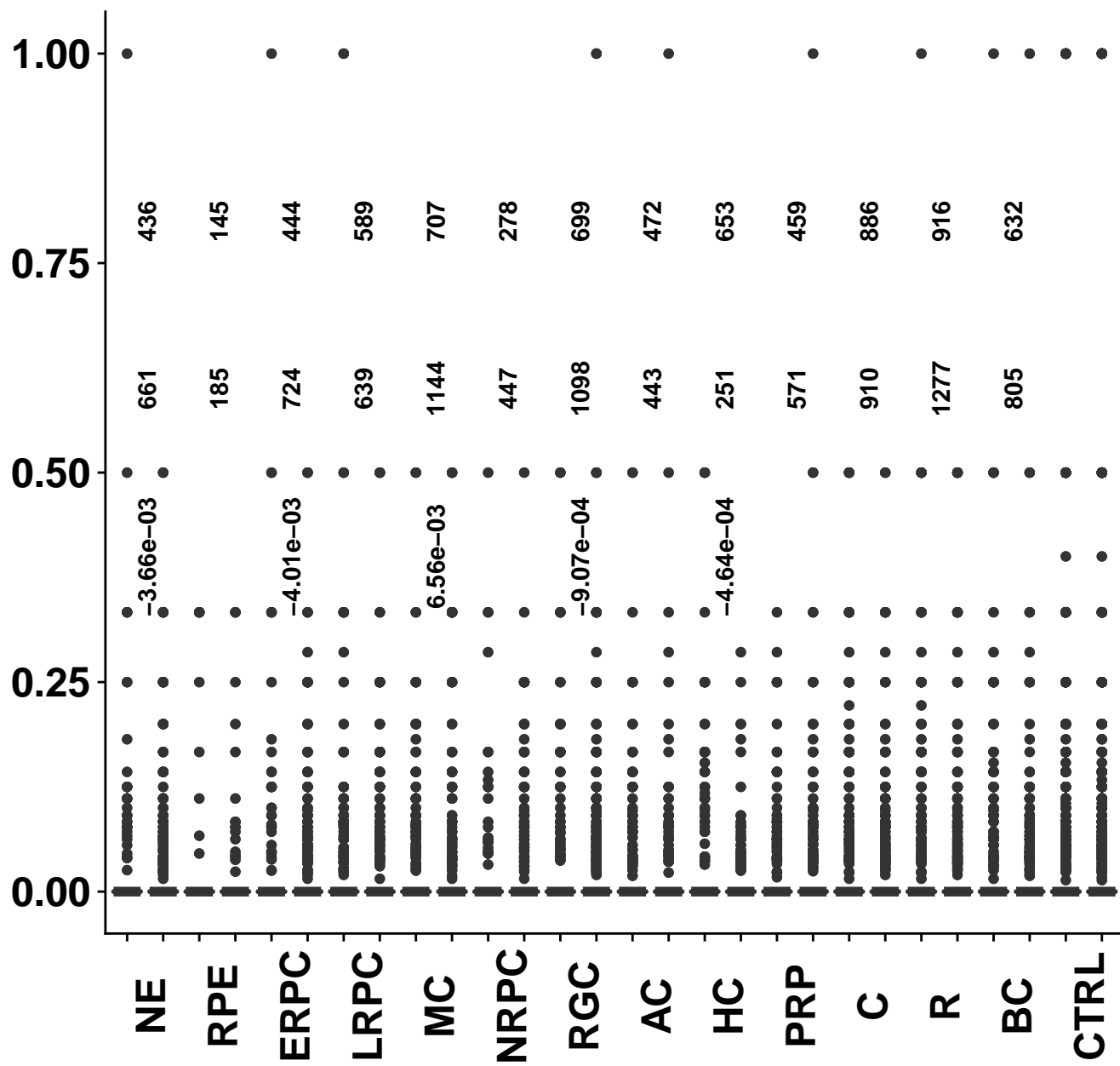
Six6_2_mean



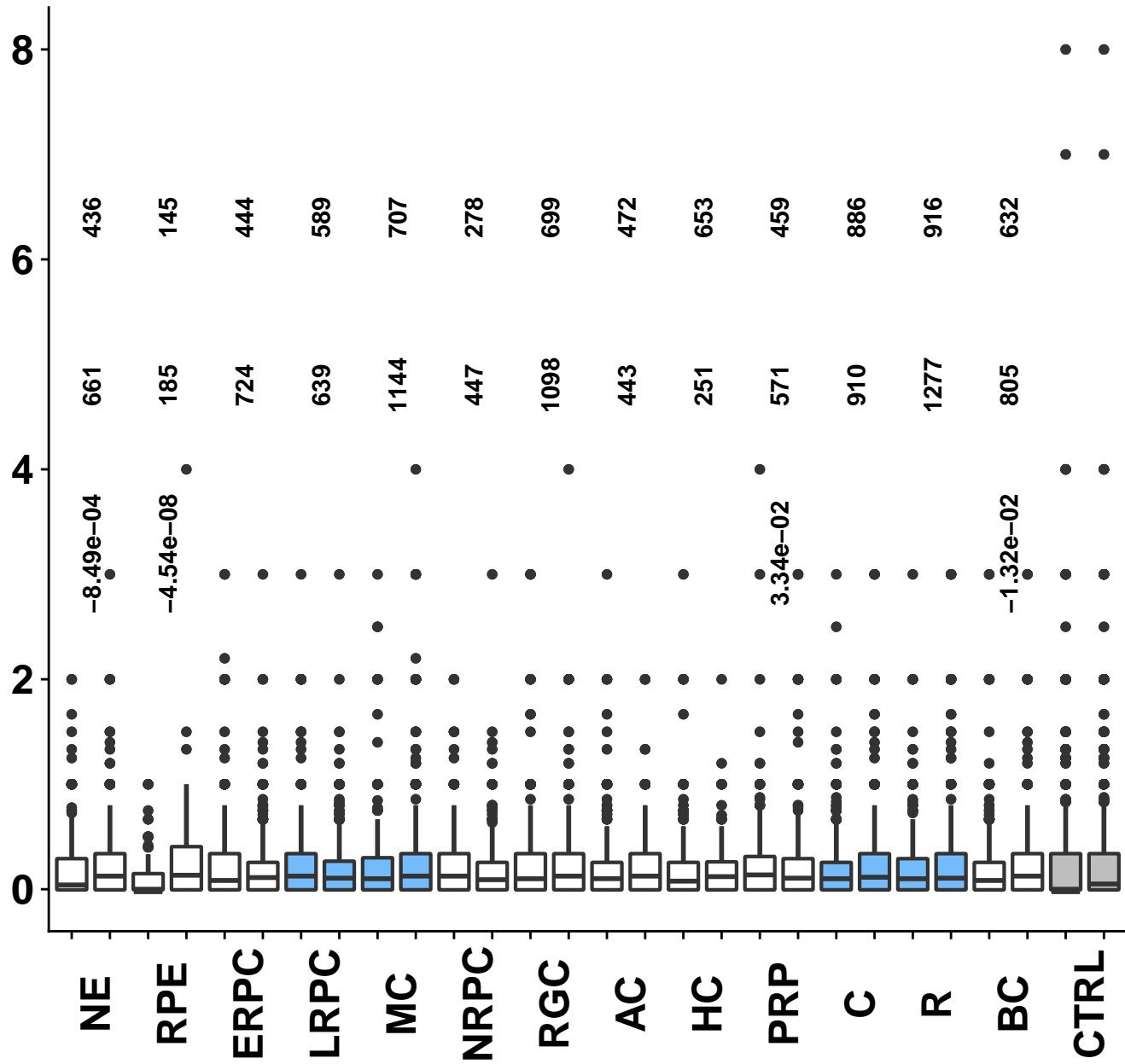
Six6_3_mean



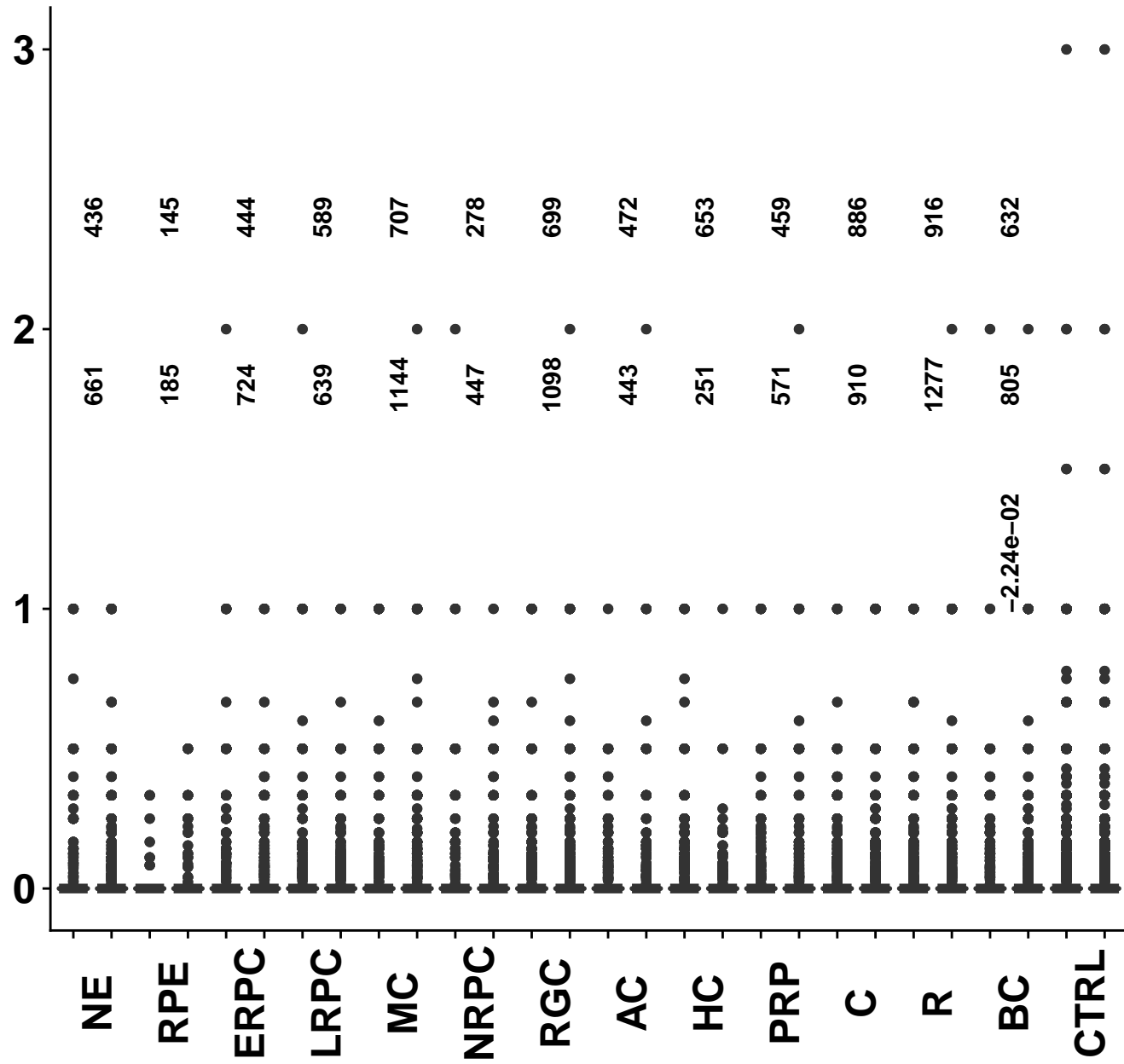
Six6_4_mean



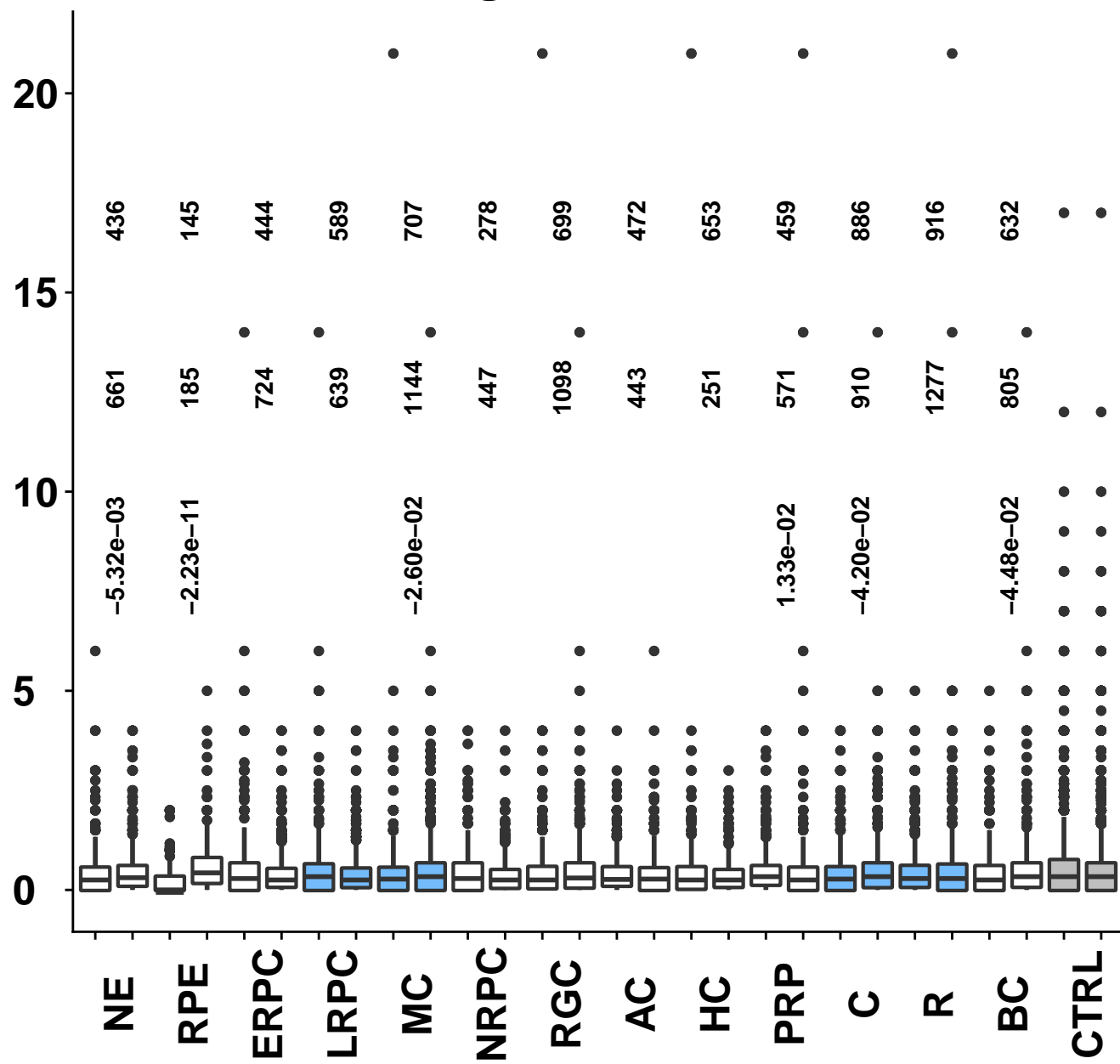
Egr1_1_mean



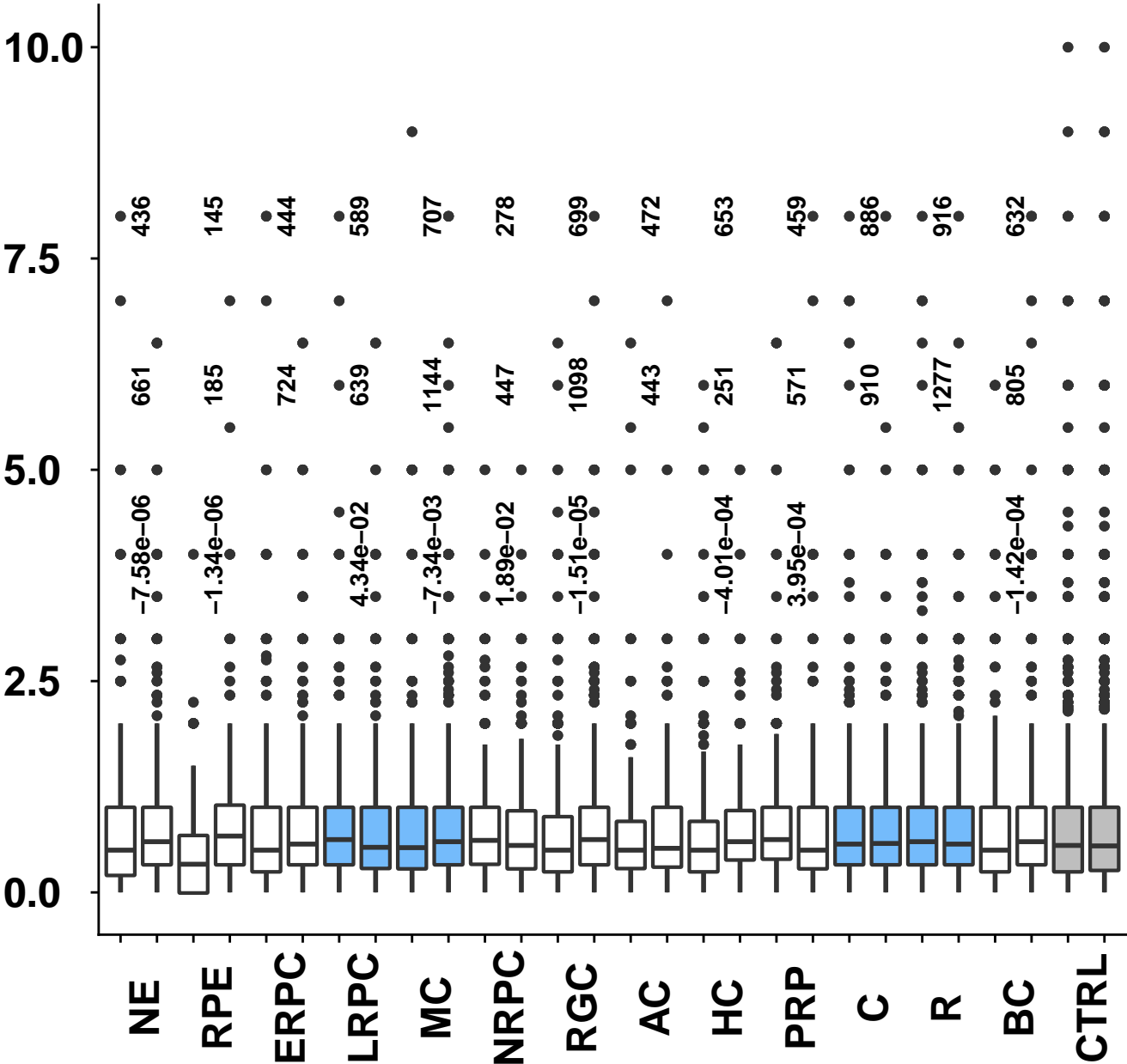
Egr1_2_mean



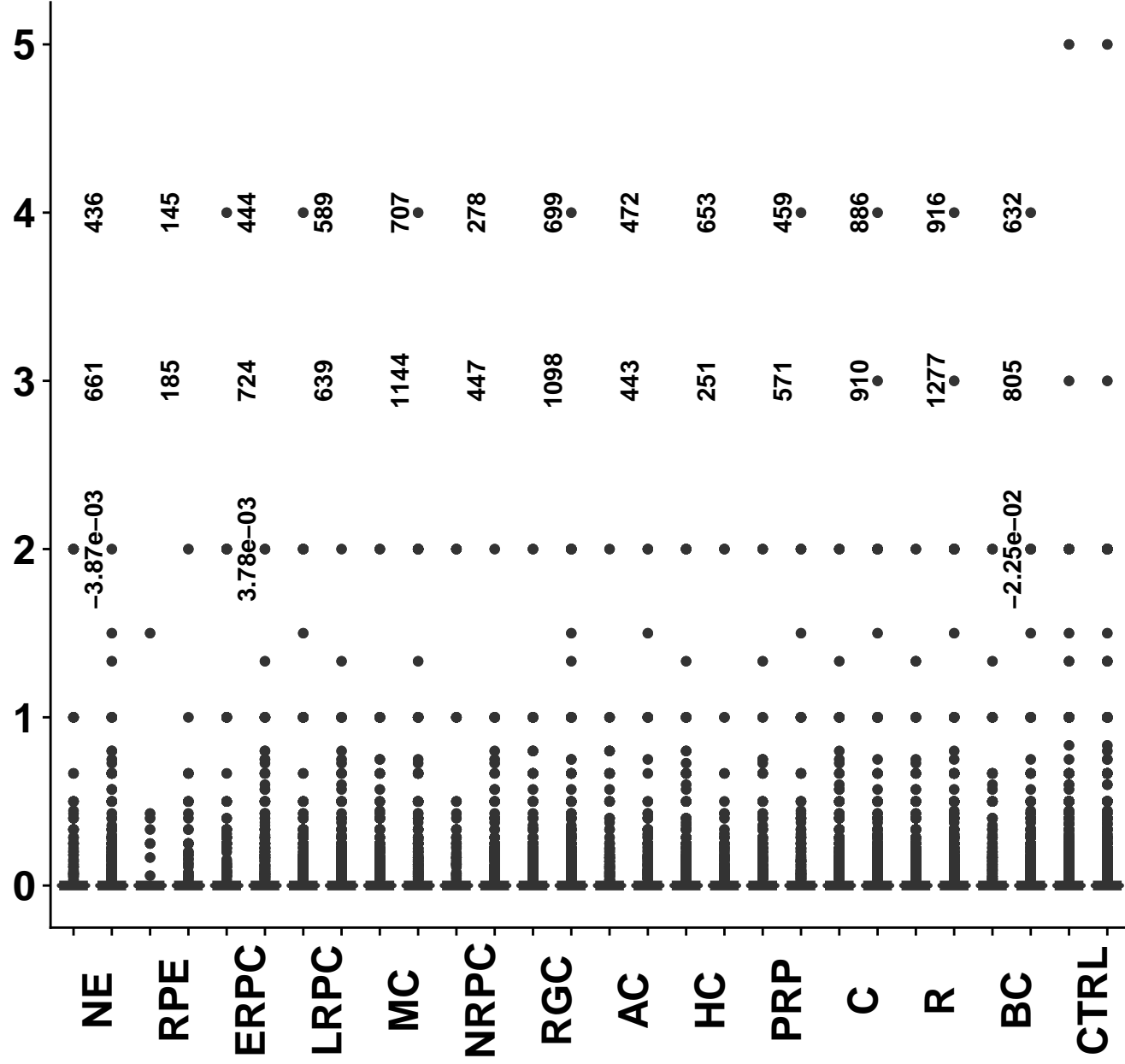
Egr1_3_mean



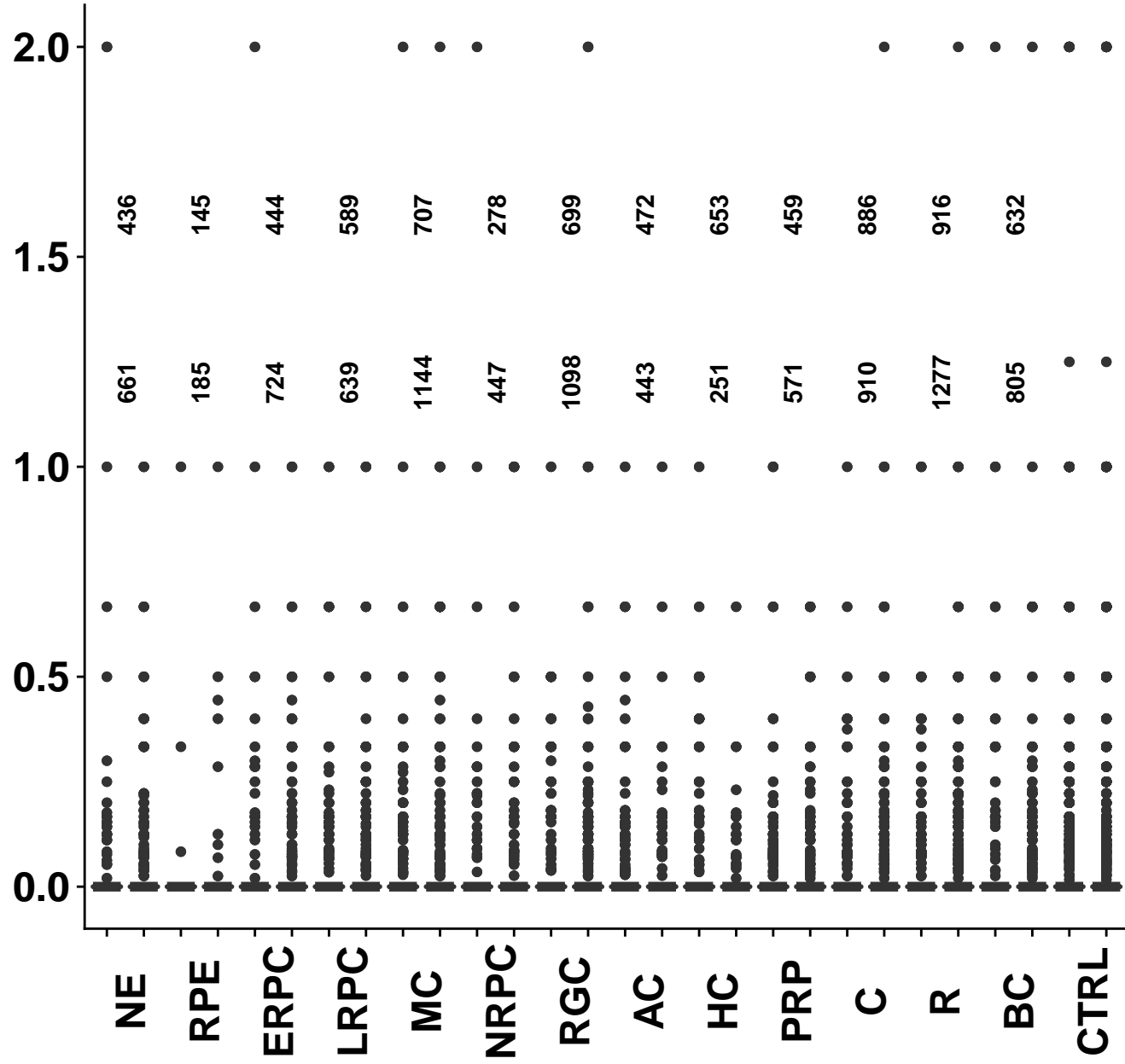
Egr1_4_mean



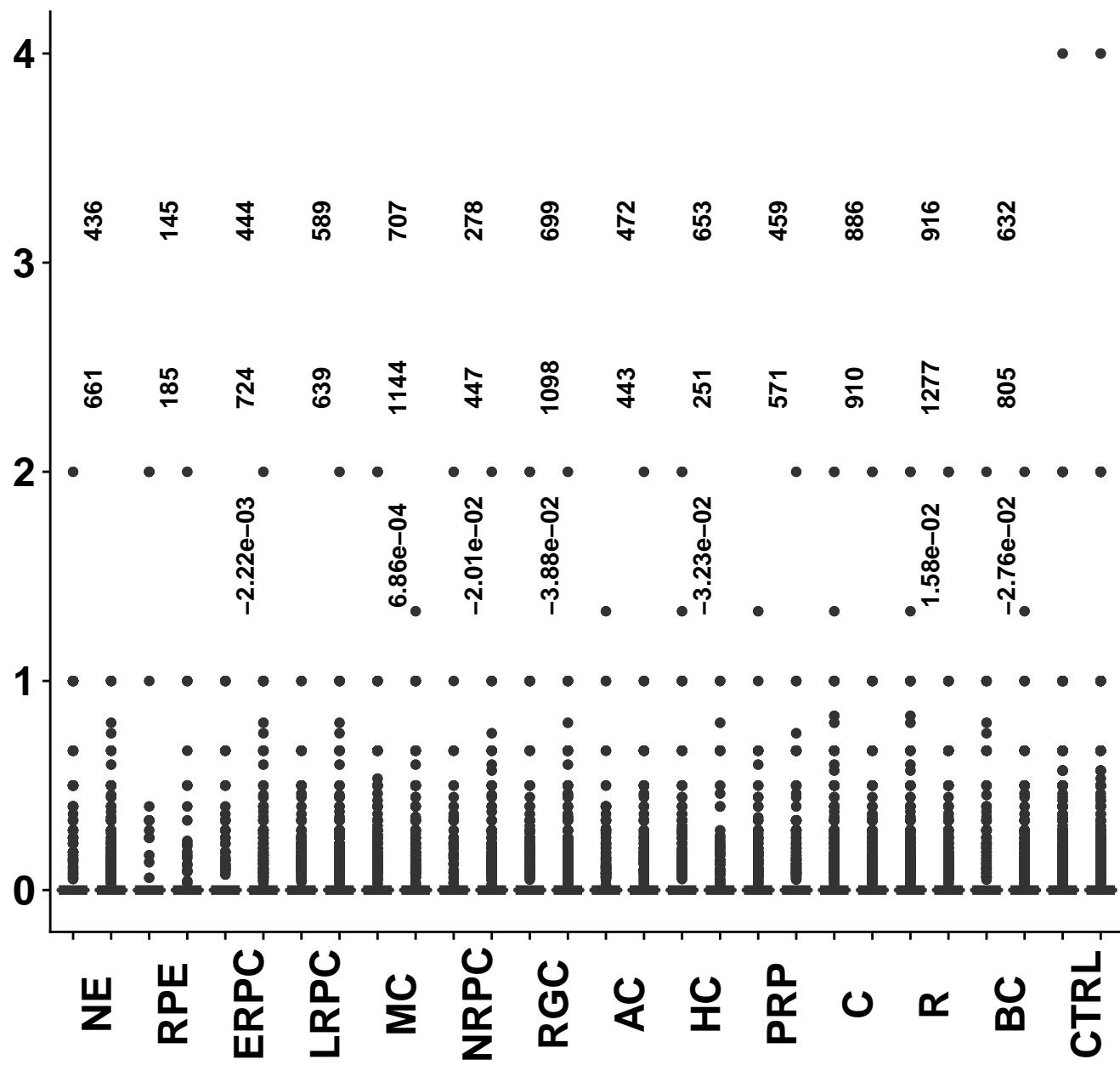
Creb5_1_mean



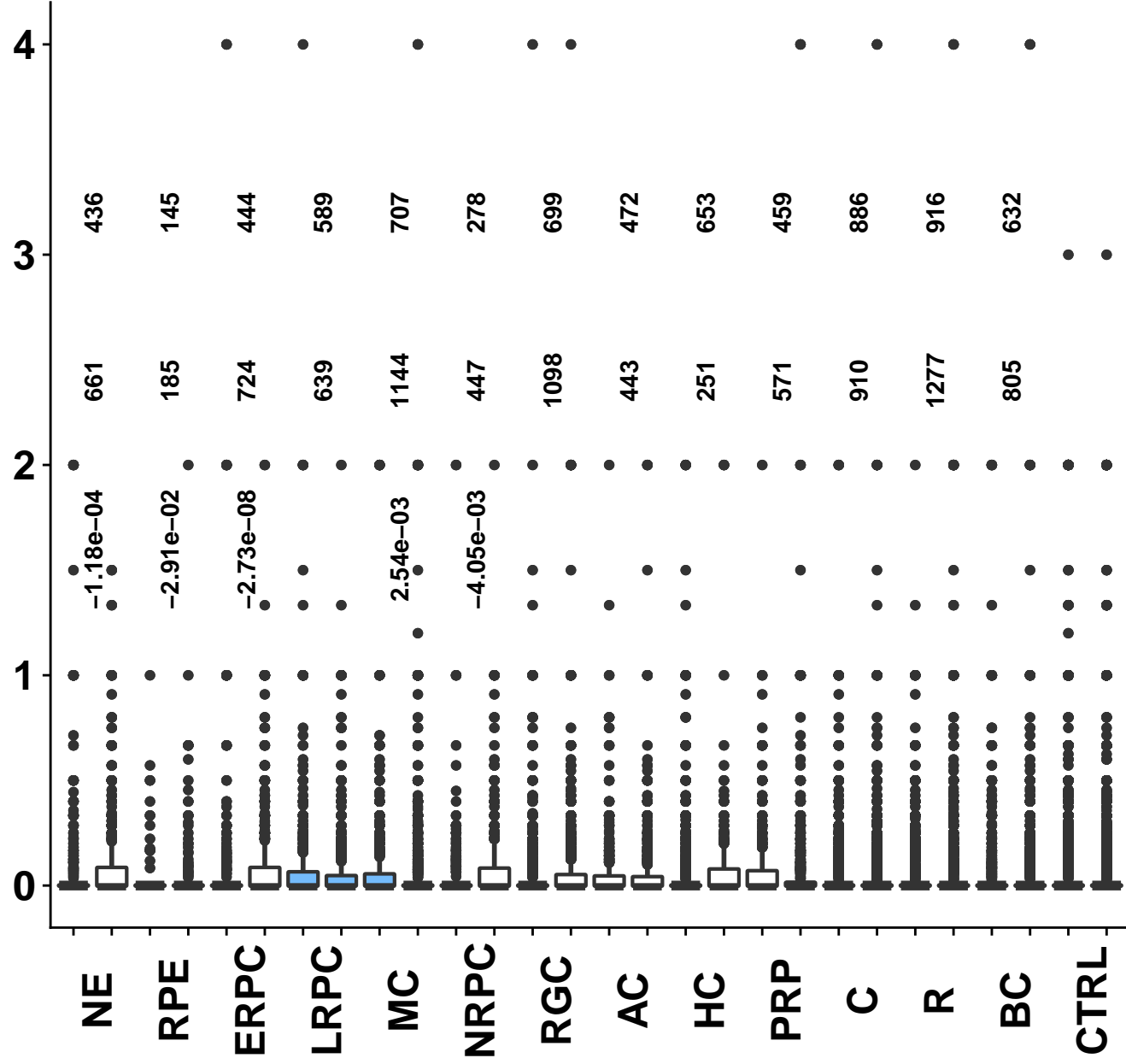
Hes5_1_mean



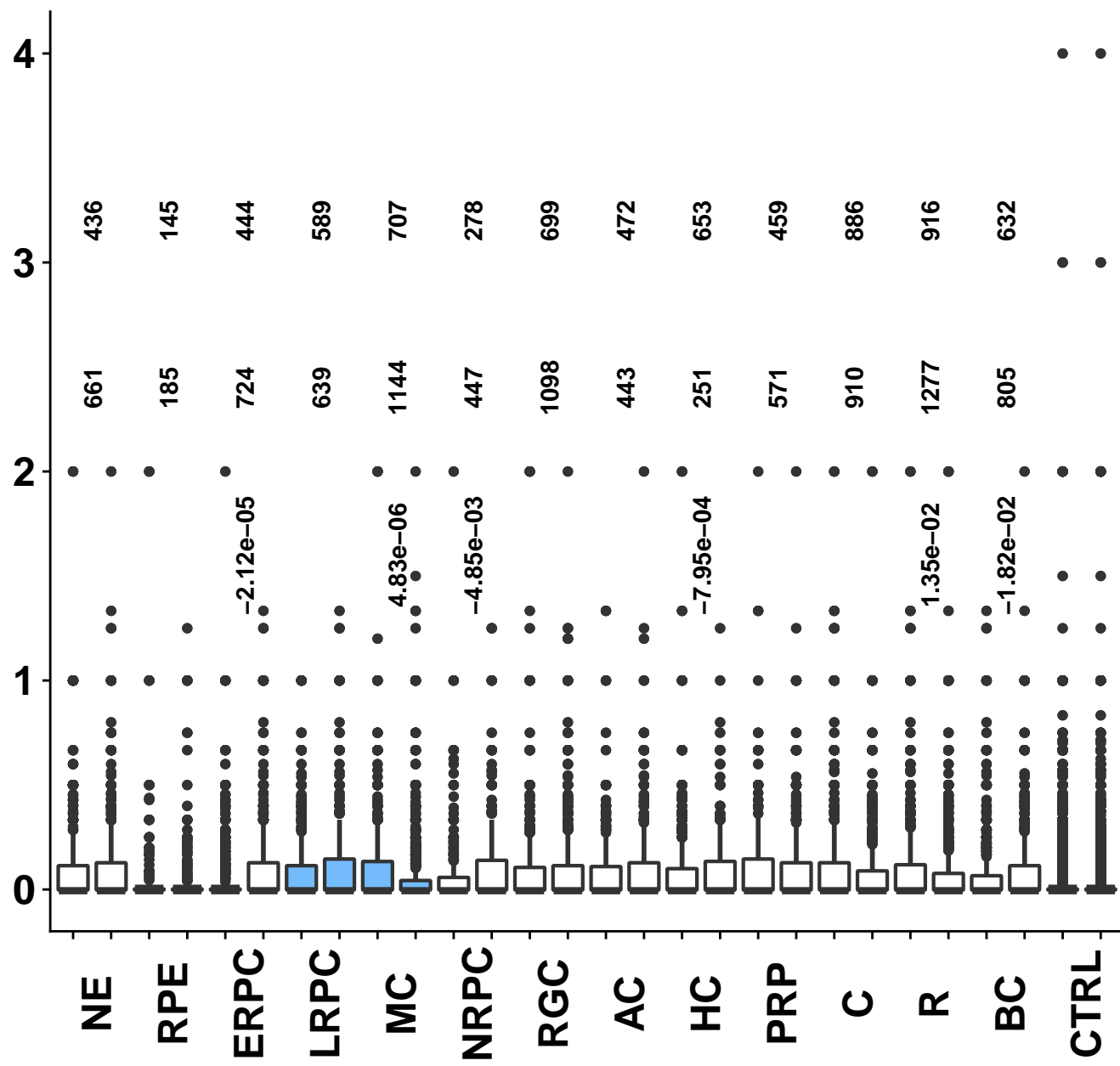
Jun_1_mean



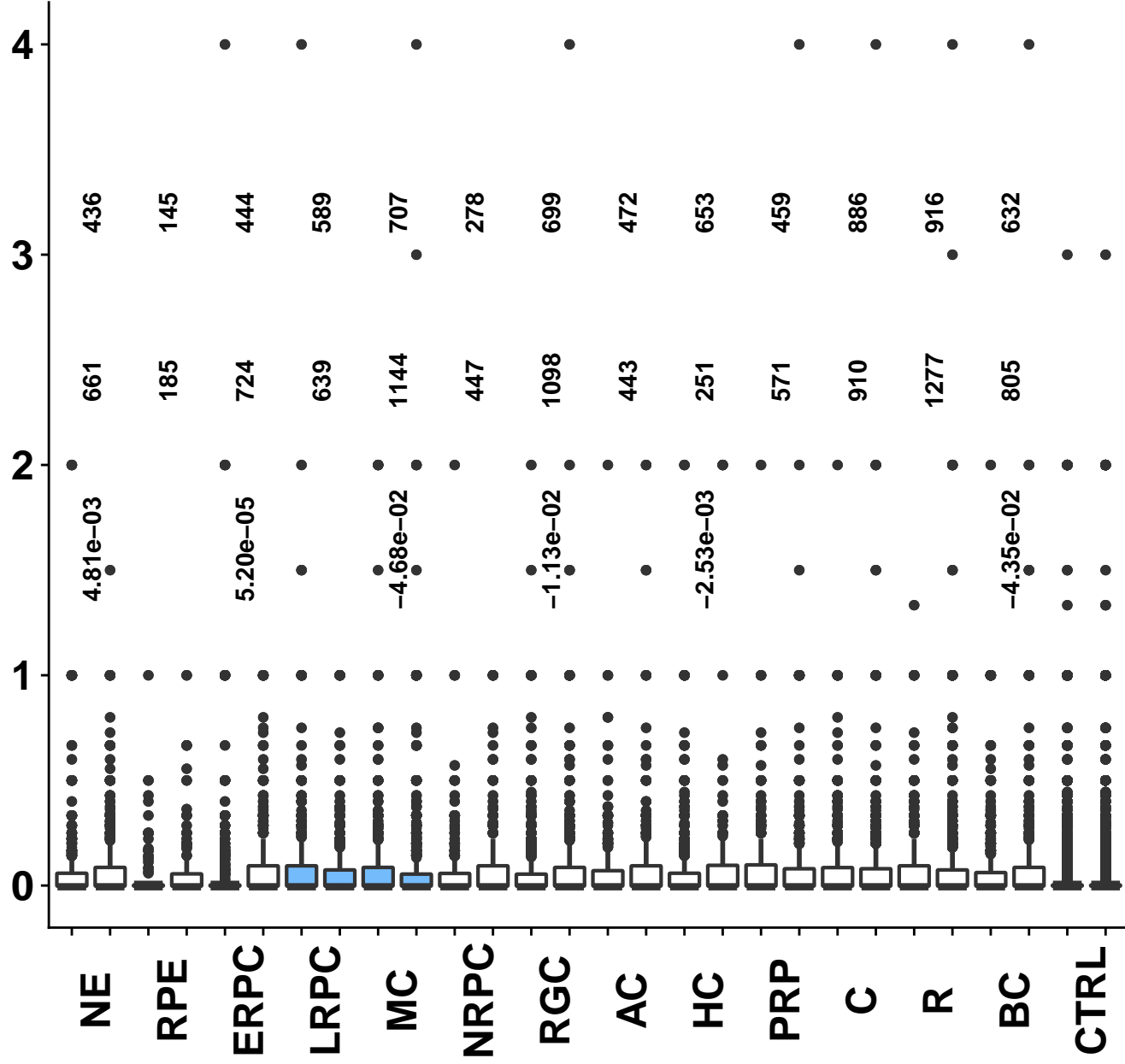
Jun_3_mean



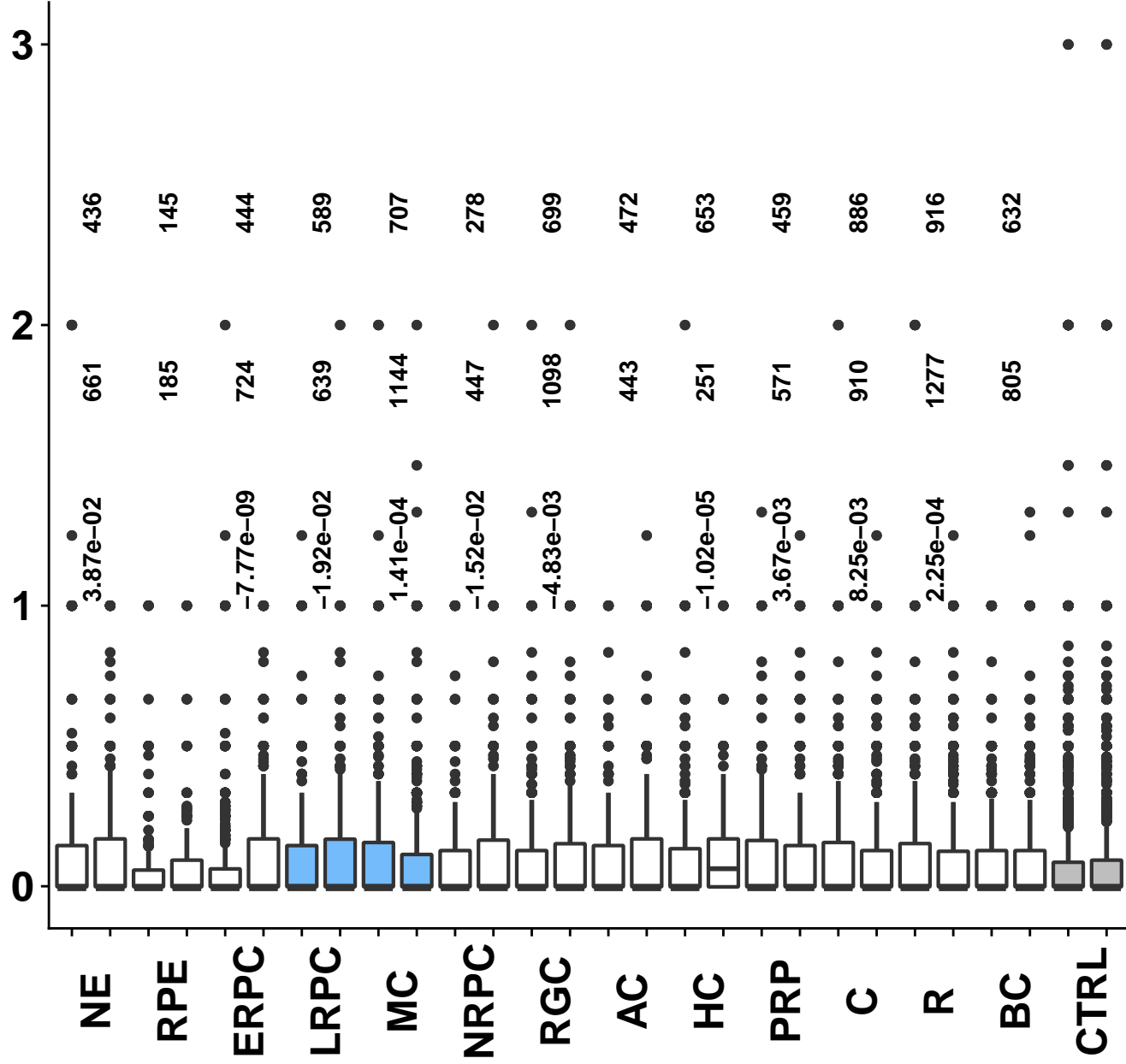
Jun_8_mean



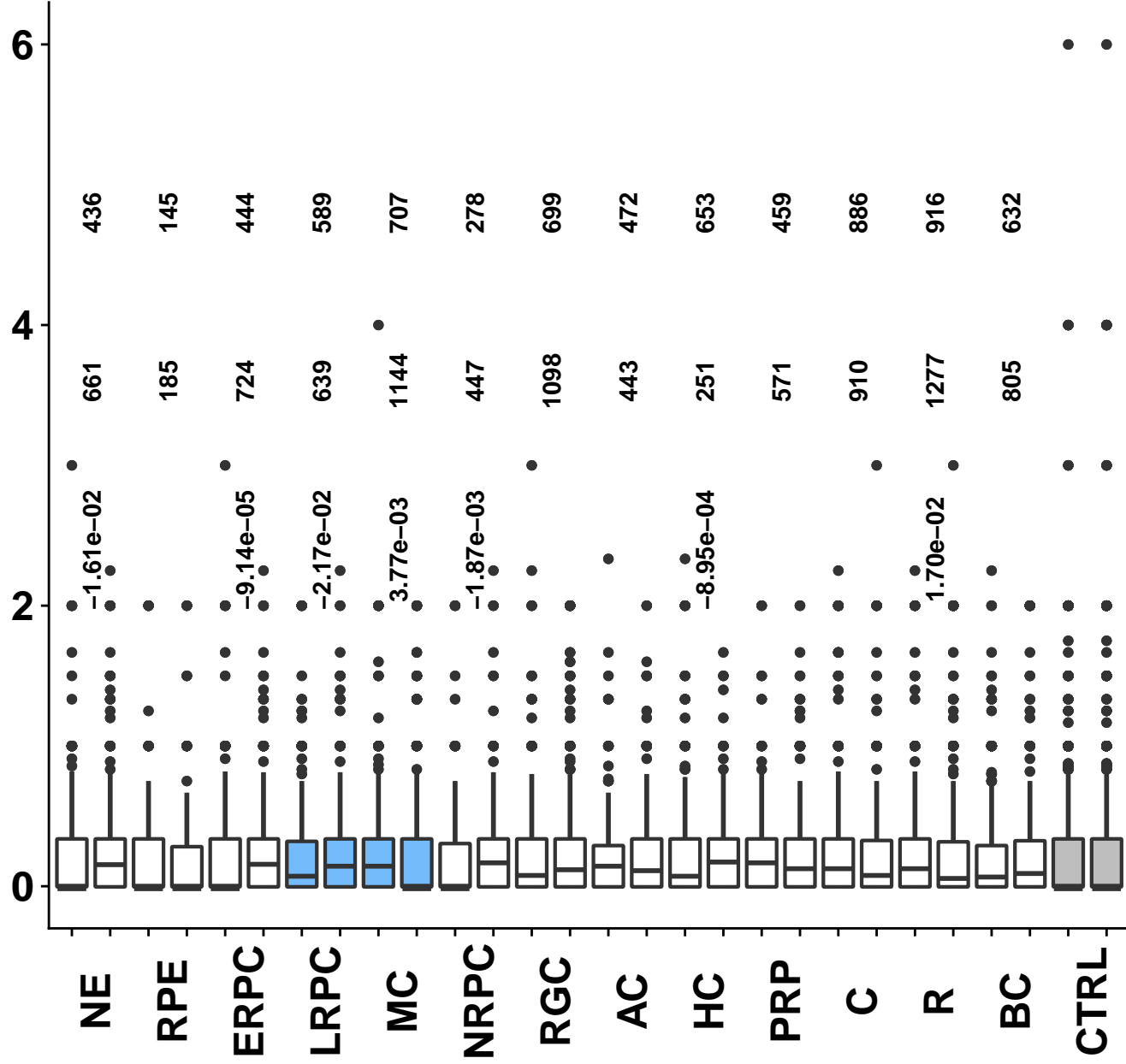
Jun_9_mean



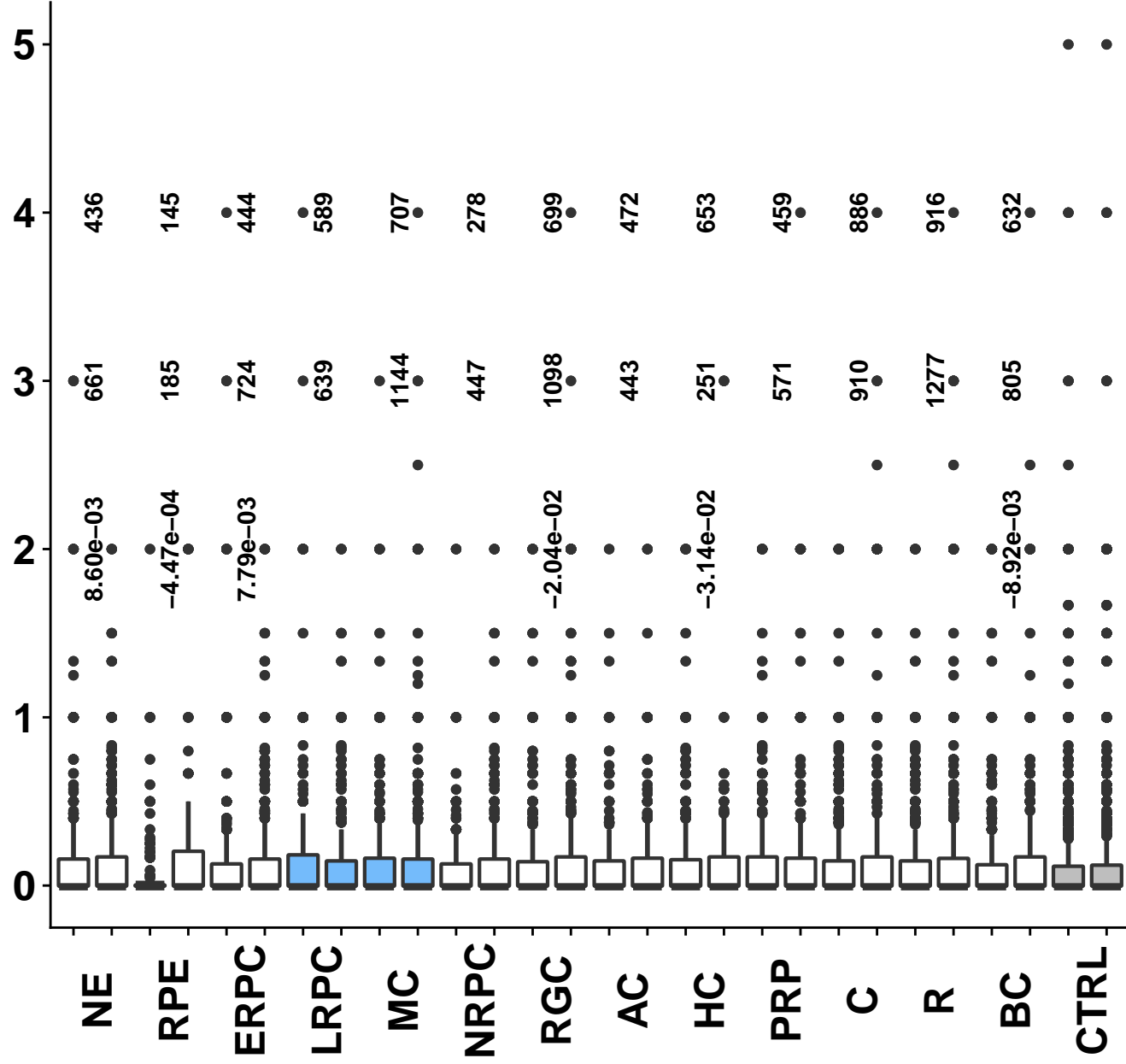
Jun_10_mean



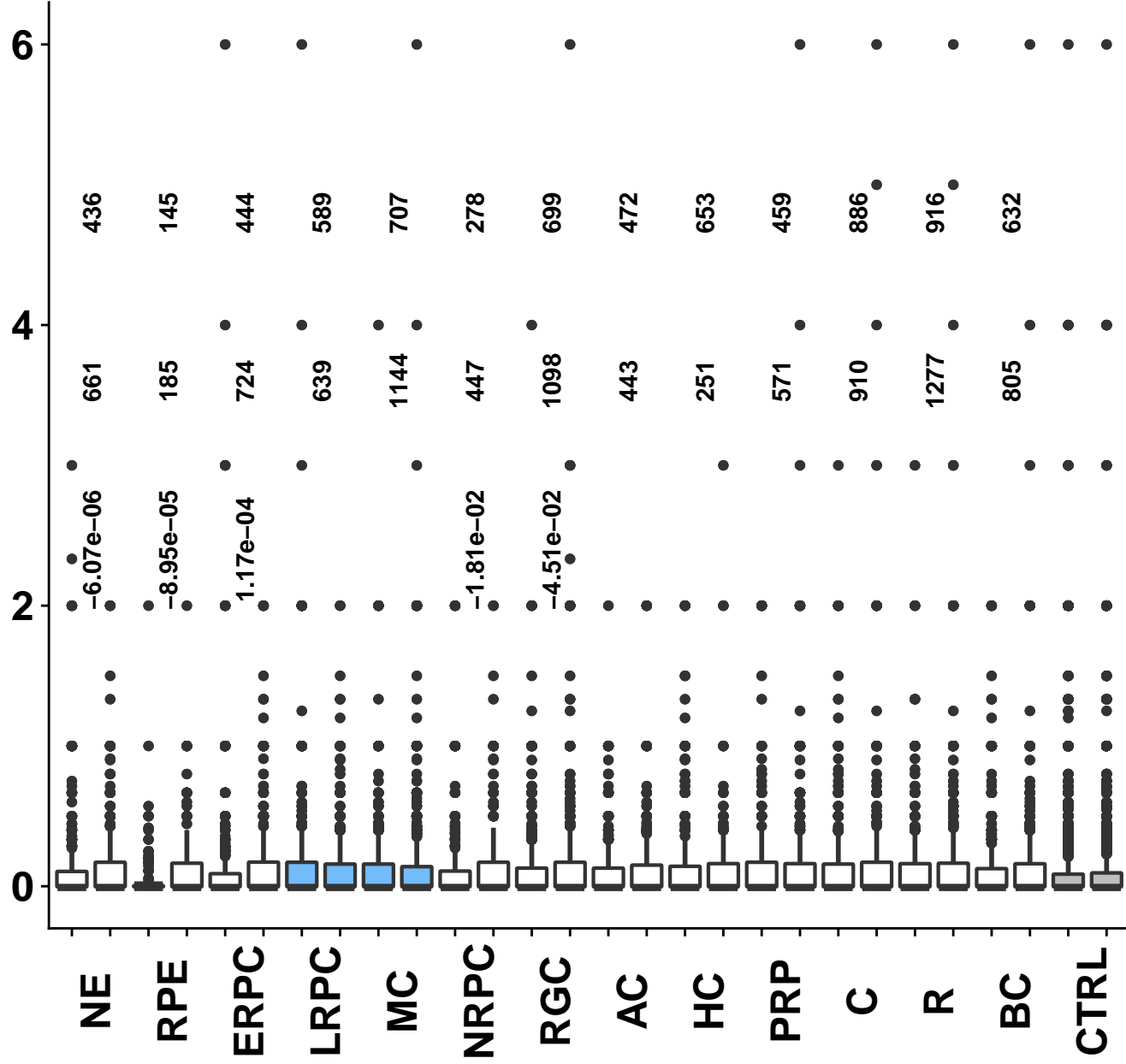
Jun_11_mean



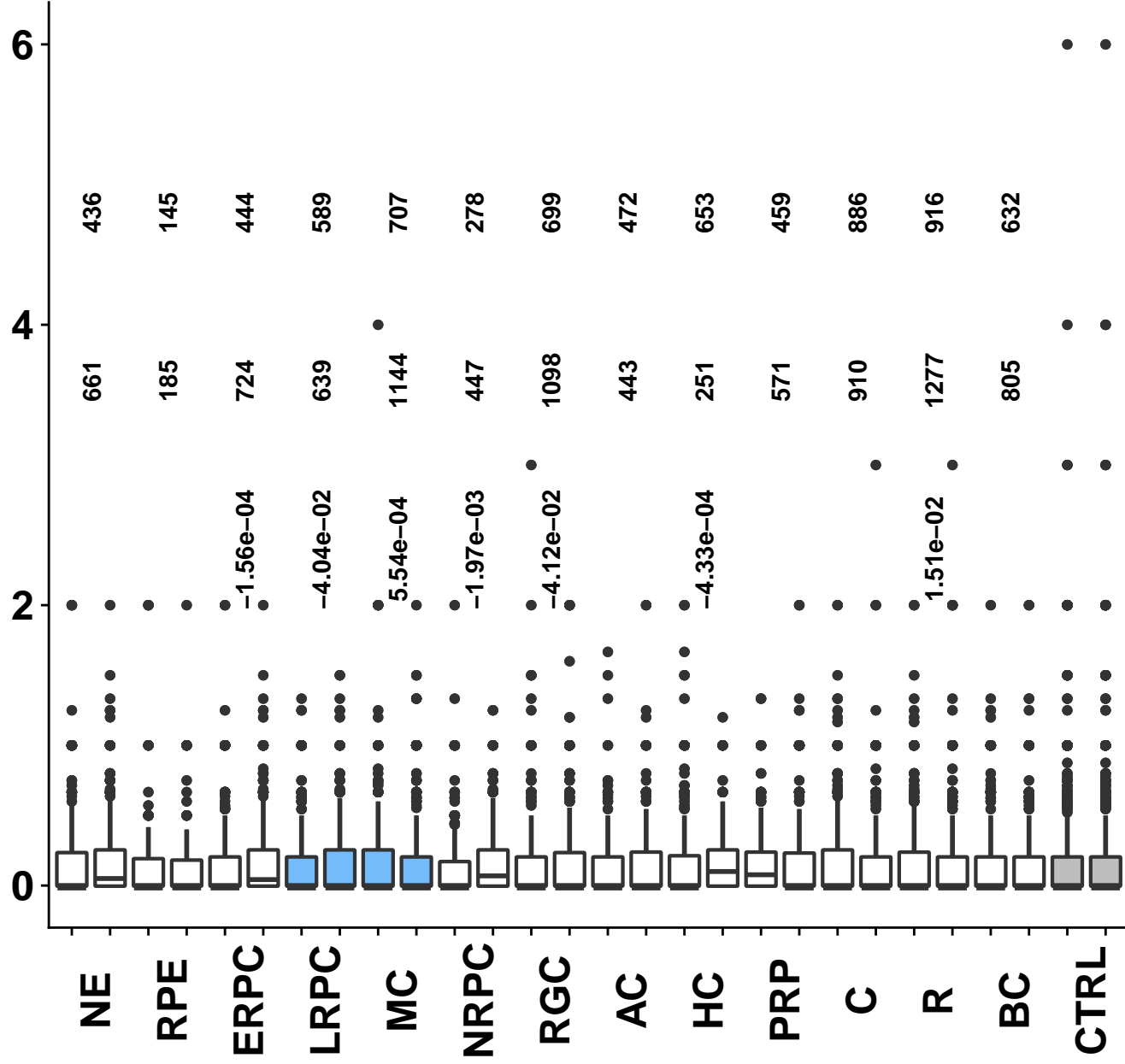
Jun_12_mean



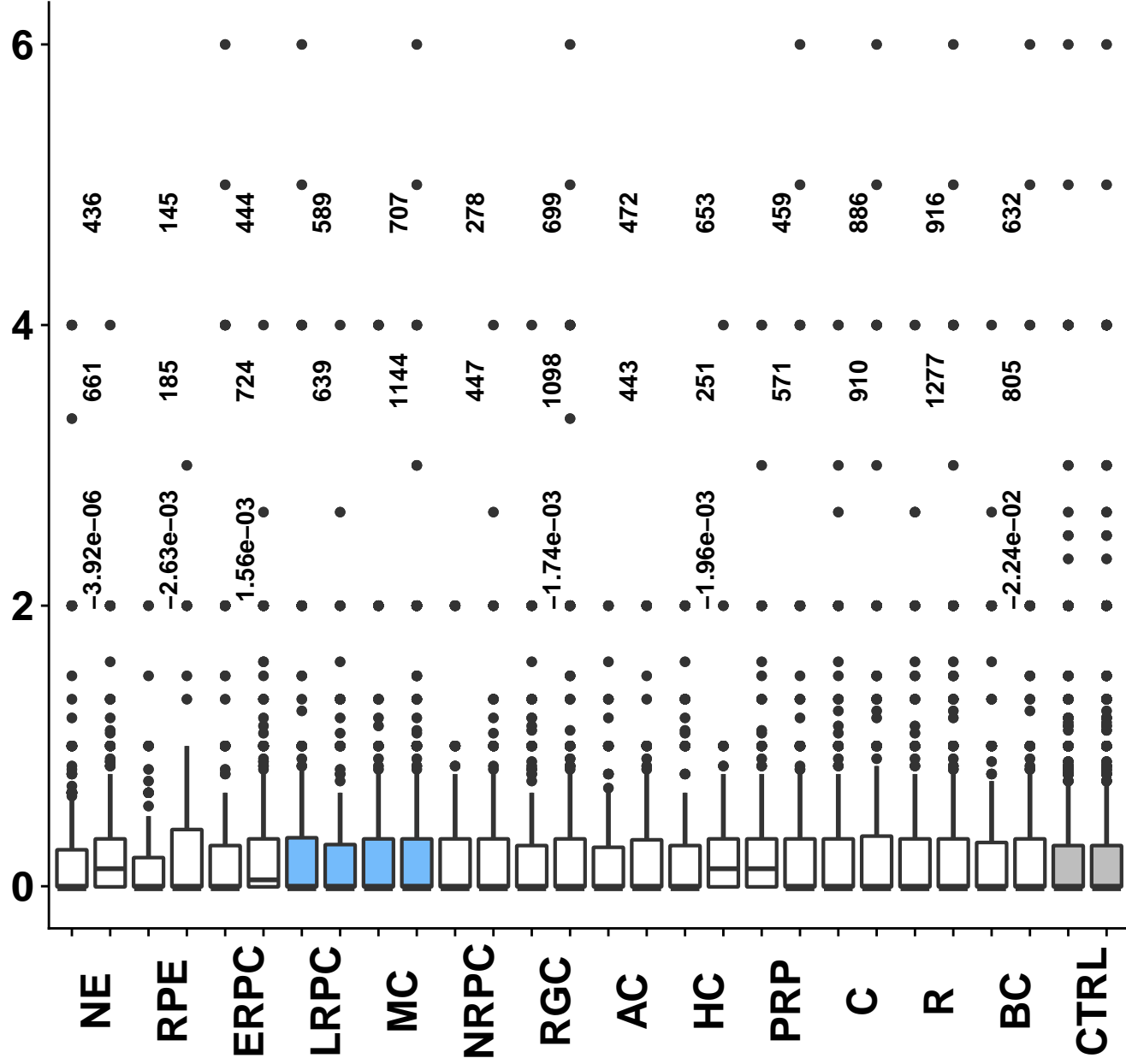
Jun_13_mean



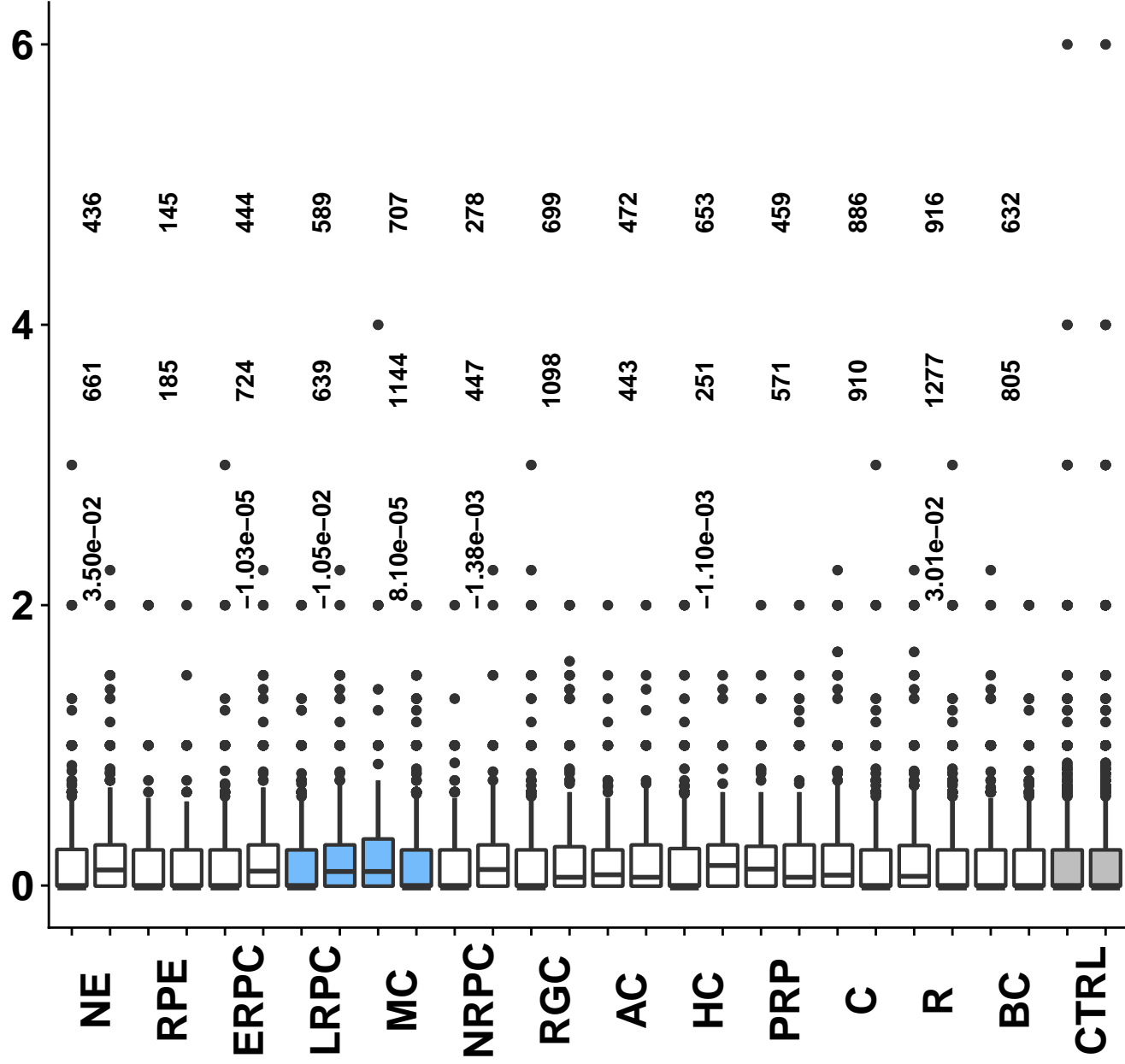
Jun_14_mean



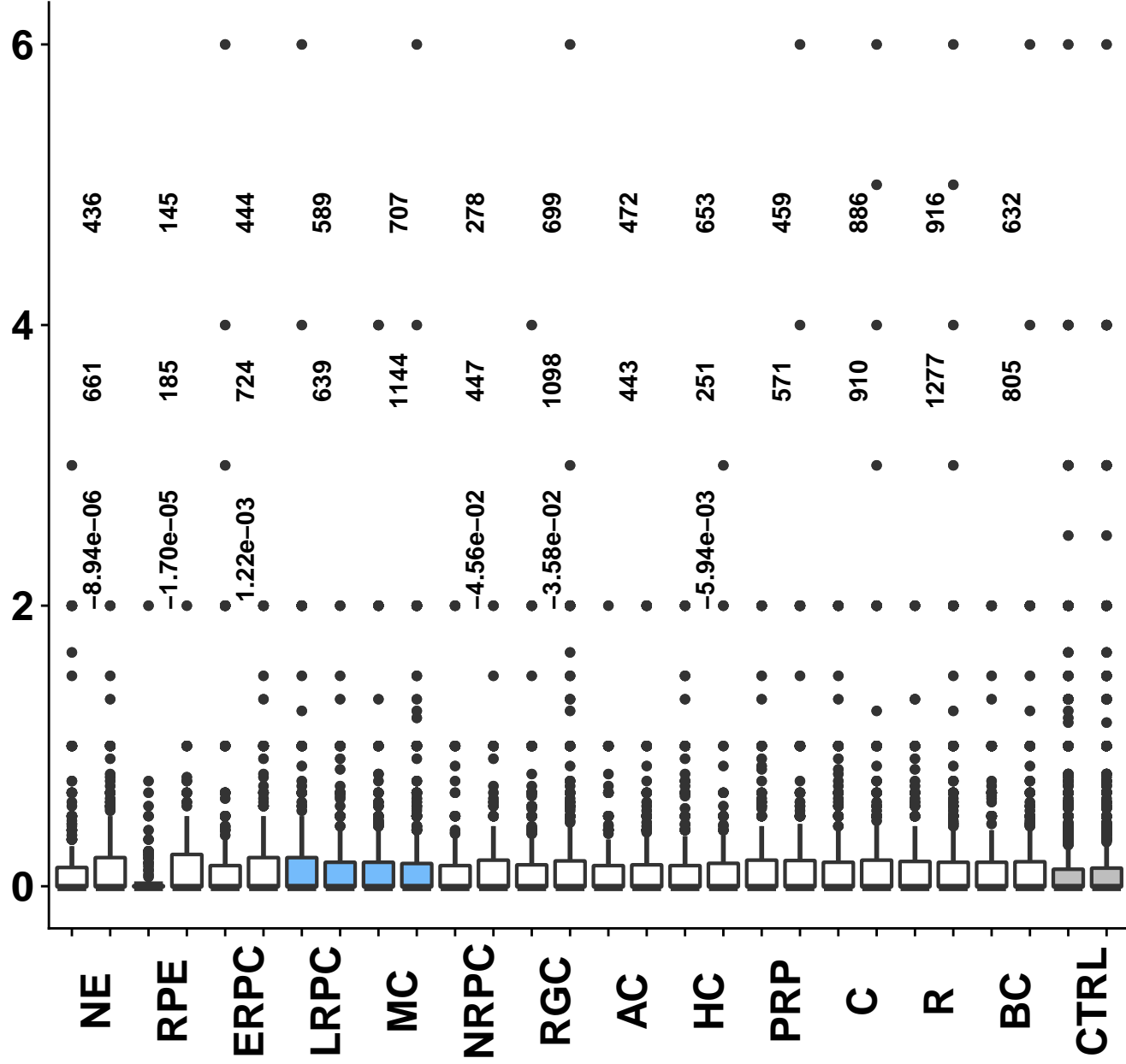
Jun_15_mean



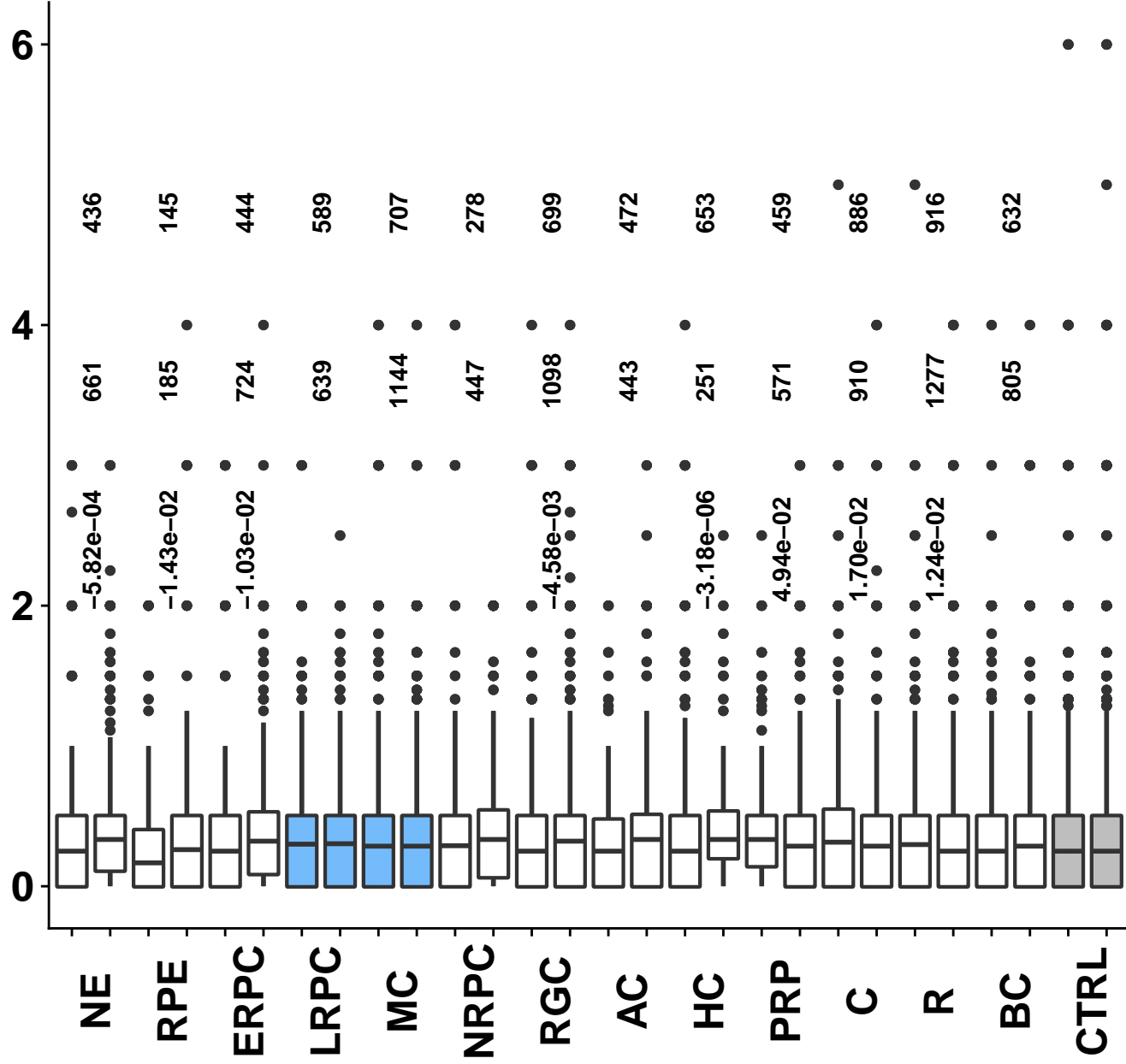
Jun_16_mean



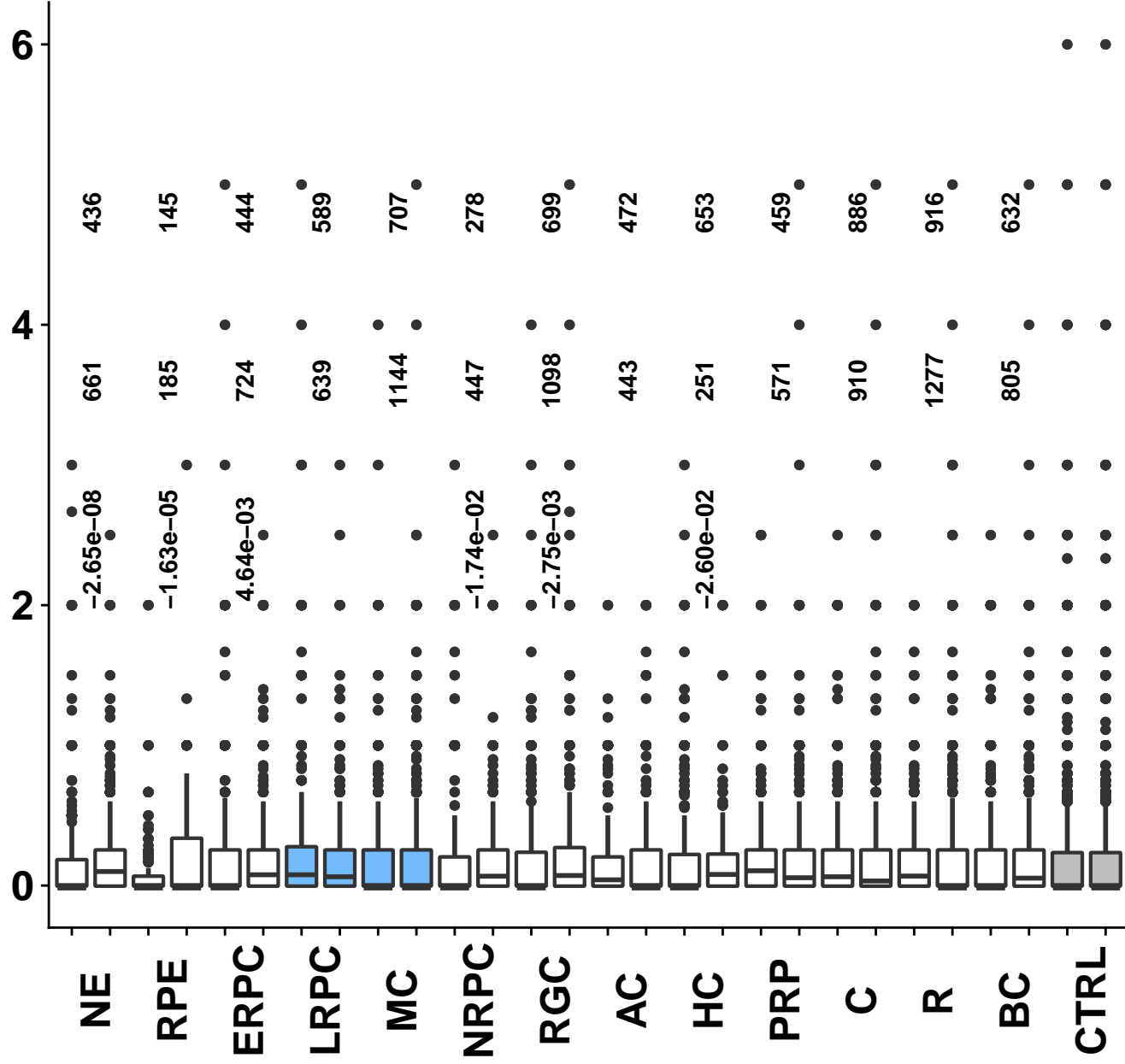
Jun_17_mean



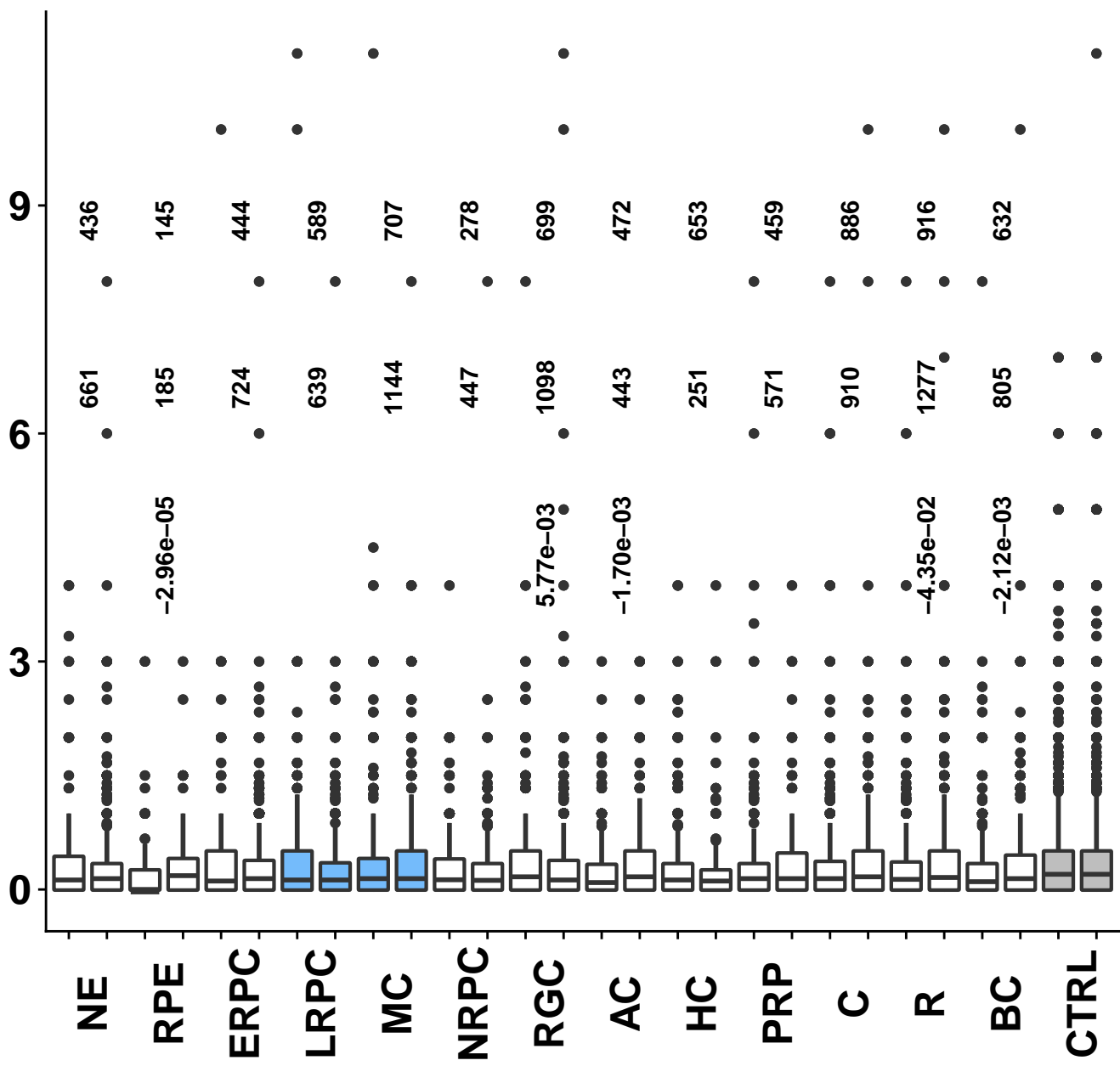
Jun_18_mean



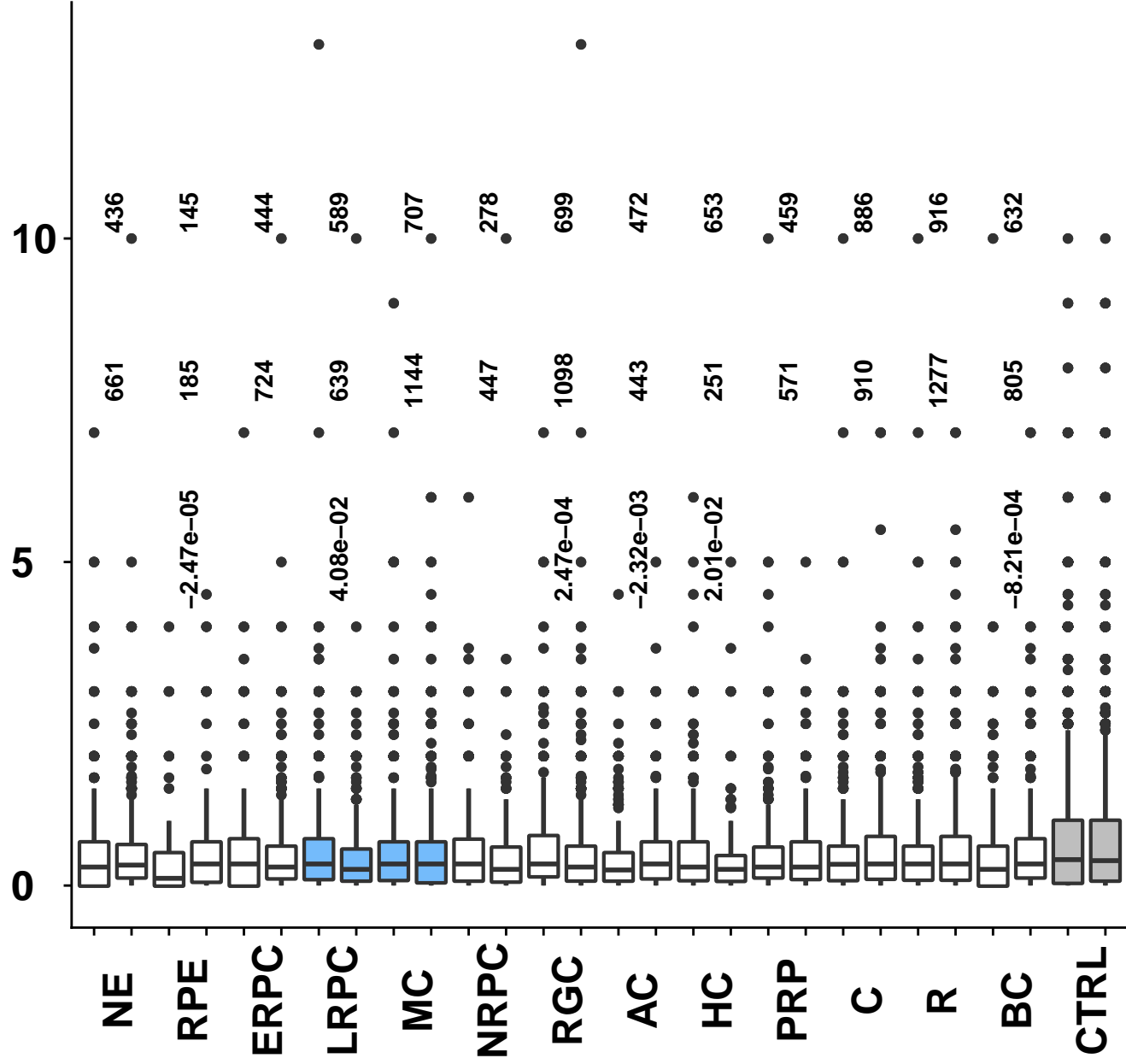
Jun_19_mean



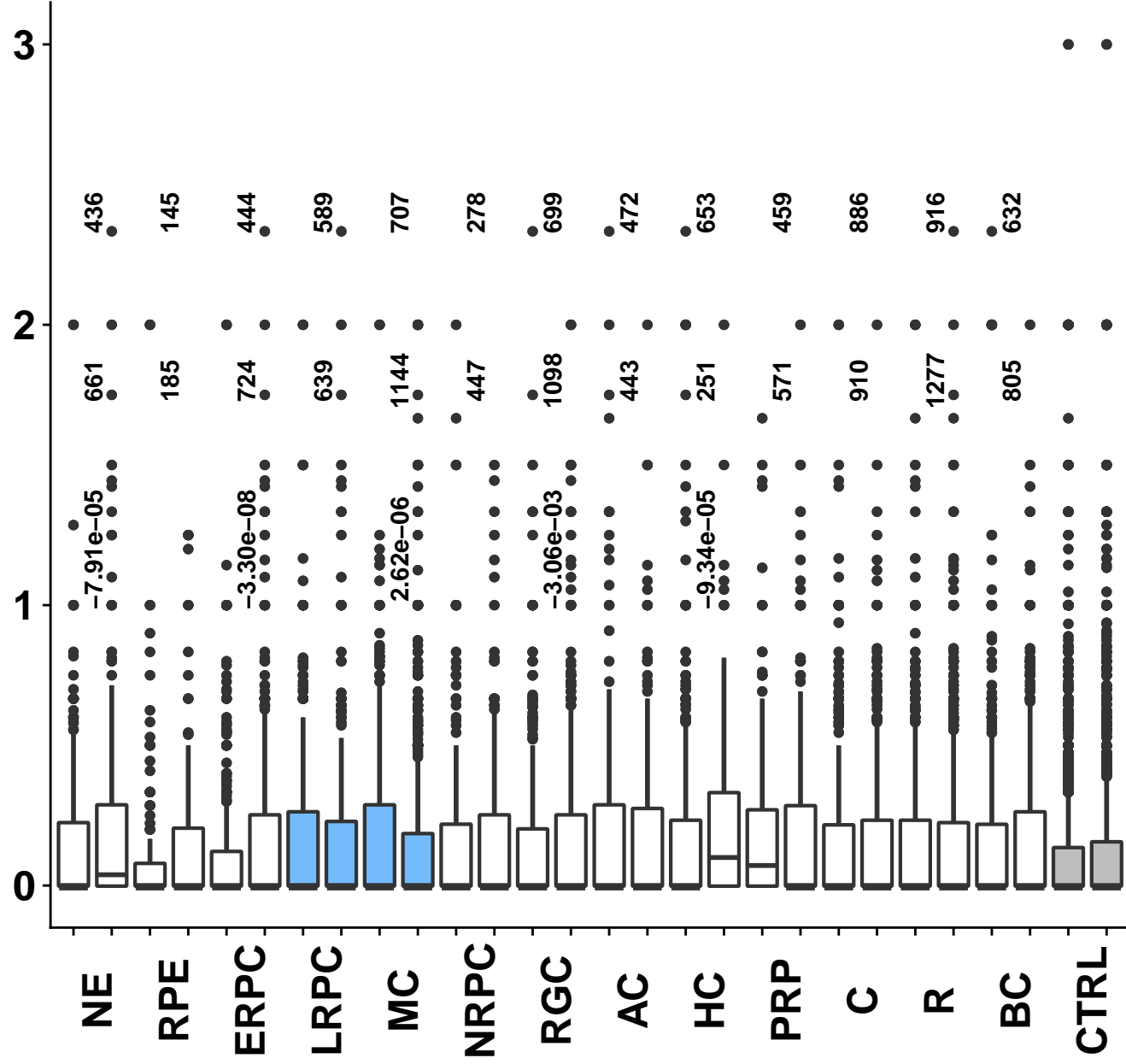
Klf3_1_mean



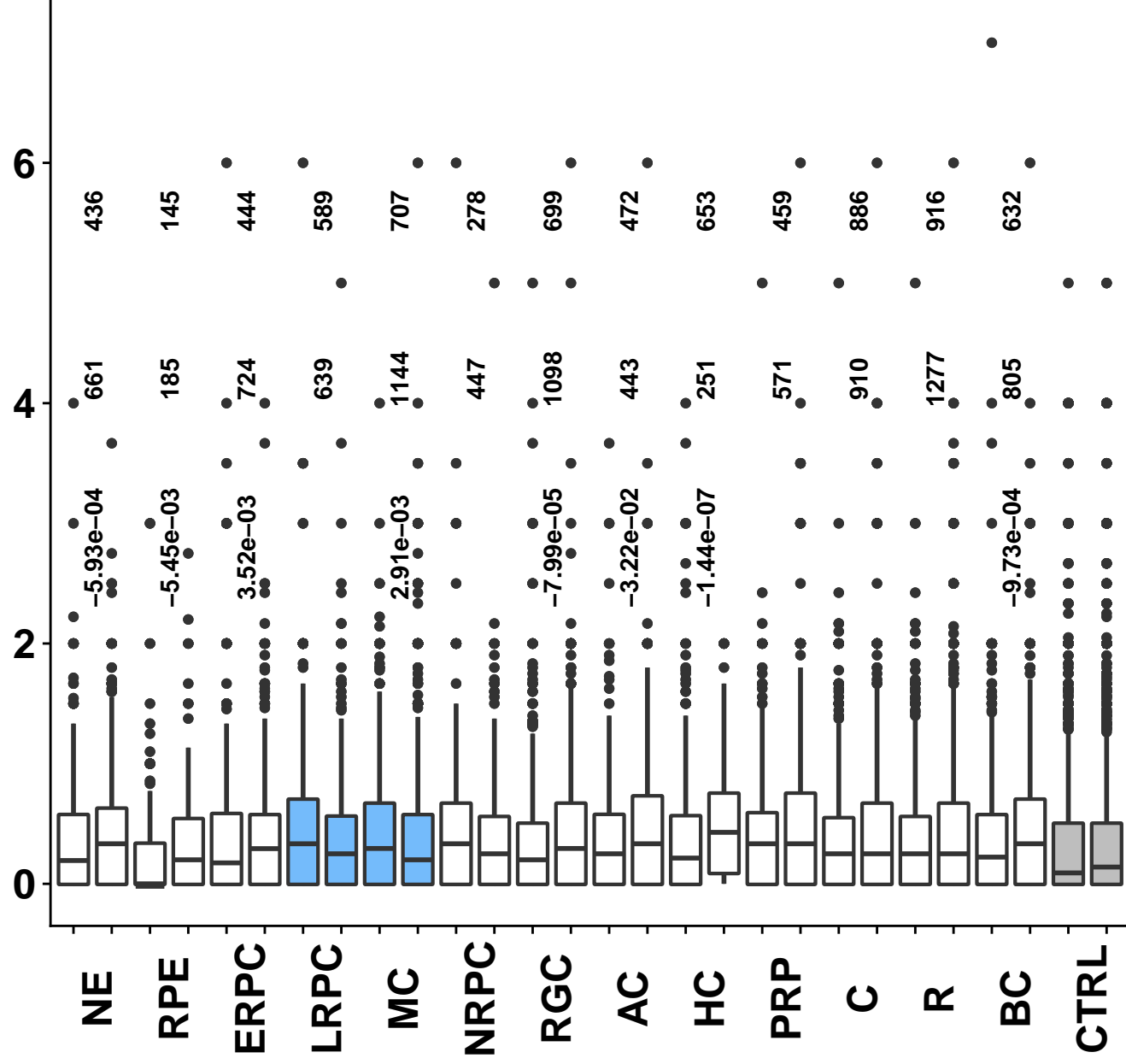
Klf6_1_mean



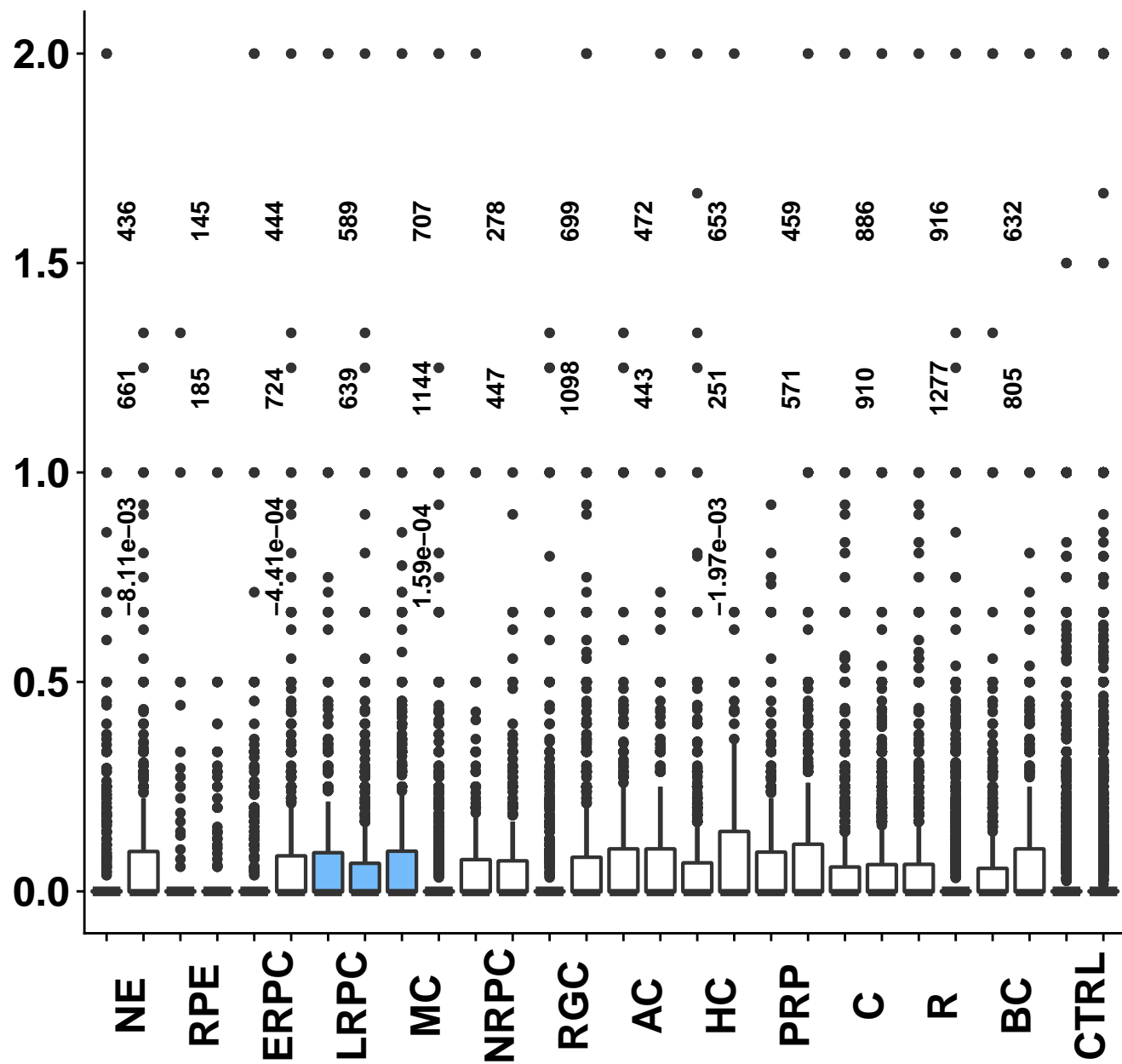
Lhx2_1_mean



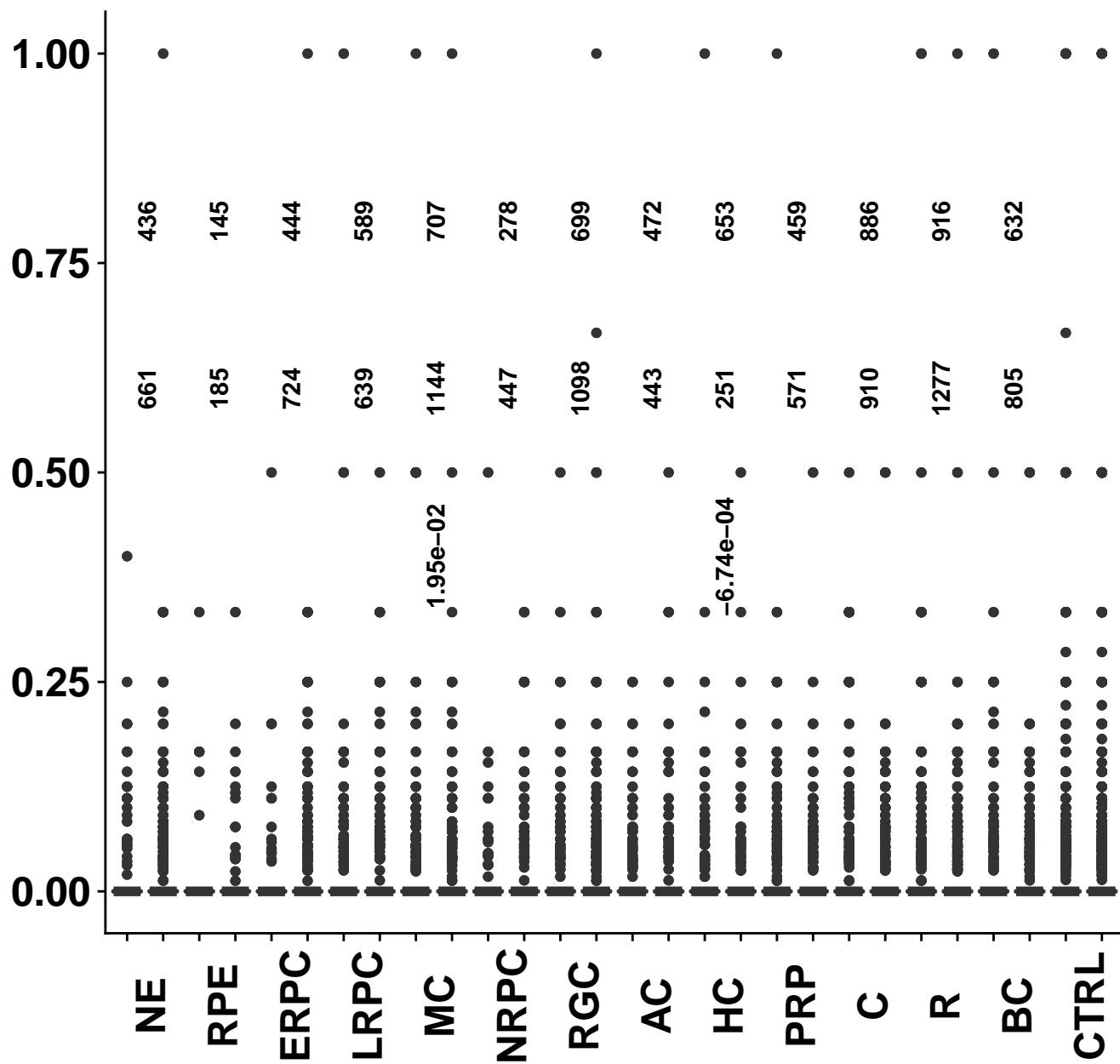
Lhx2_2_mean



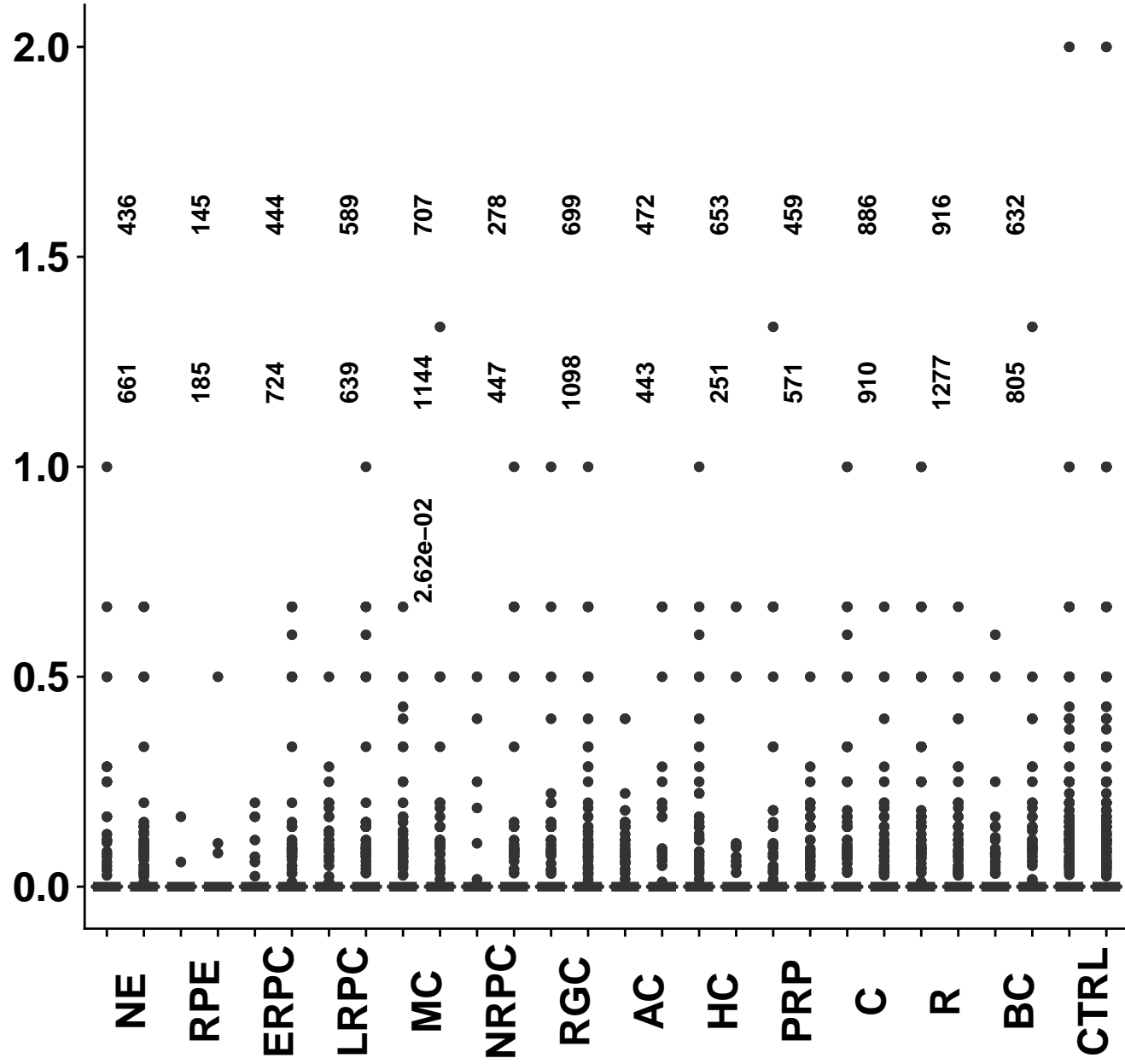
Lhx2_3_mean



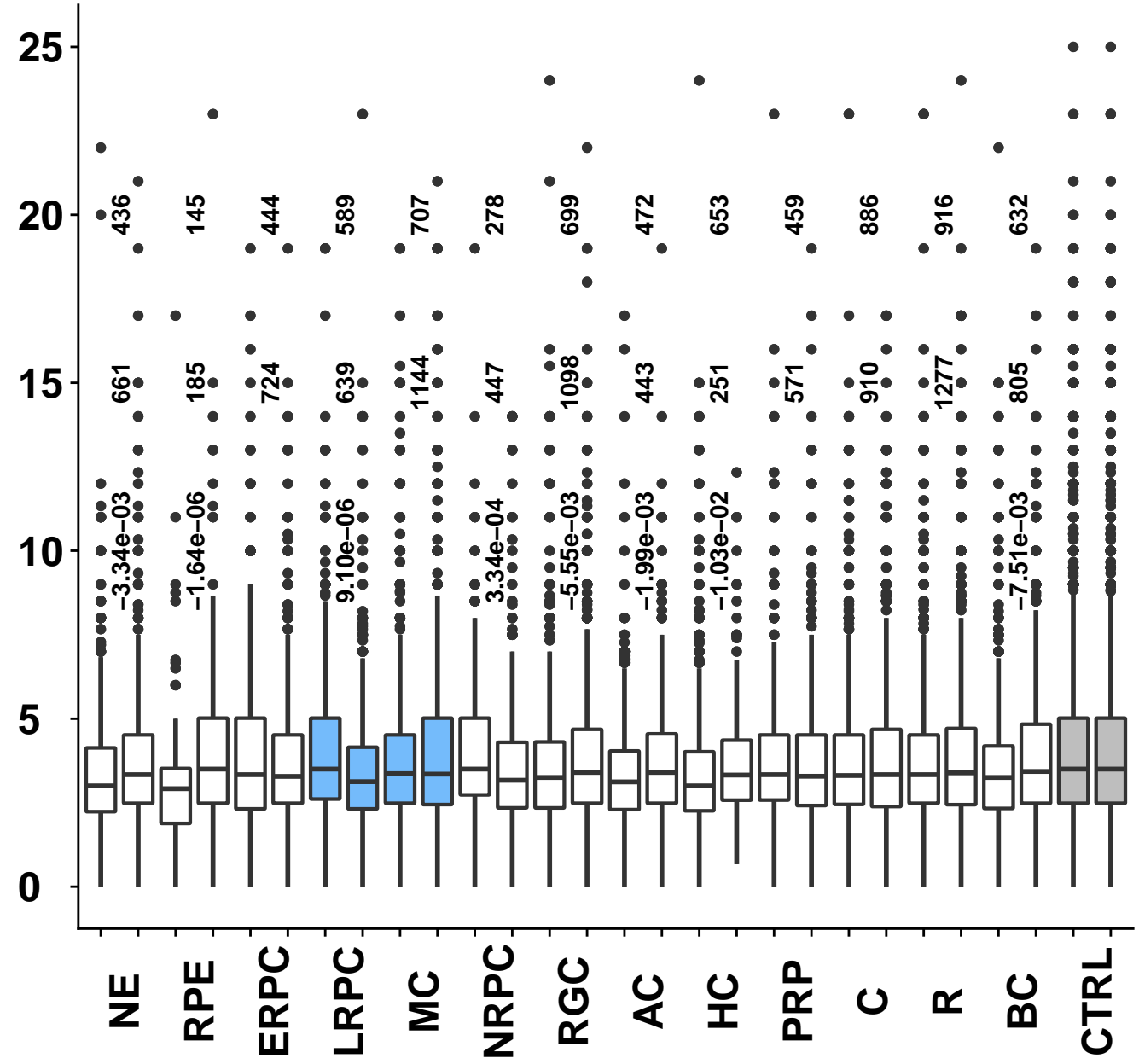
Maff_1_mean



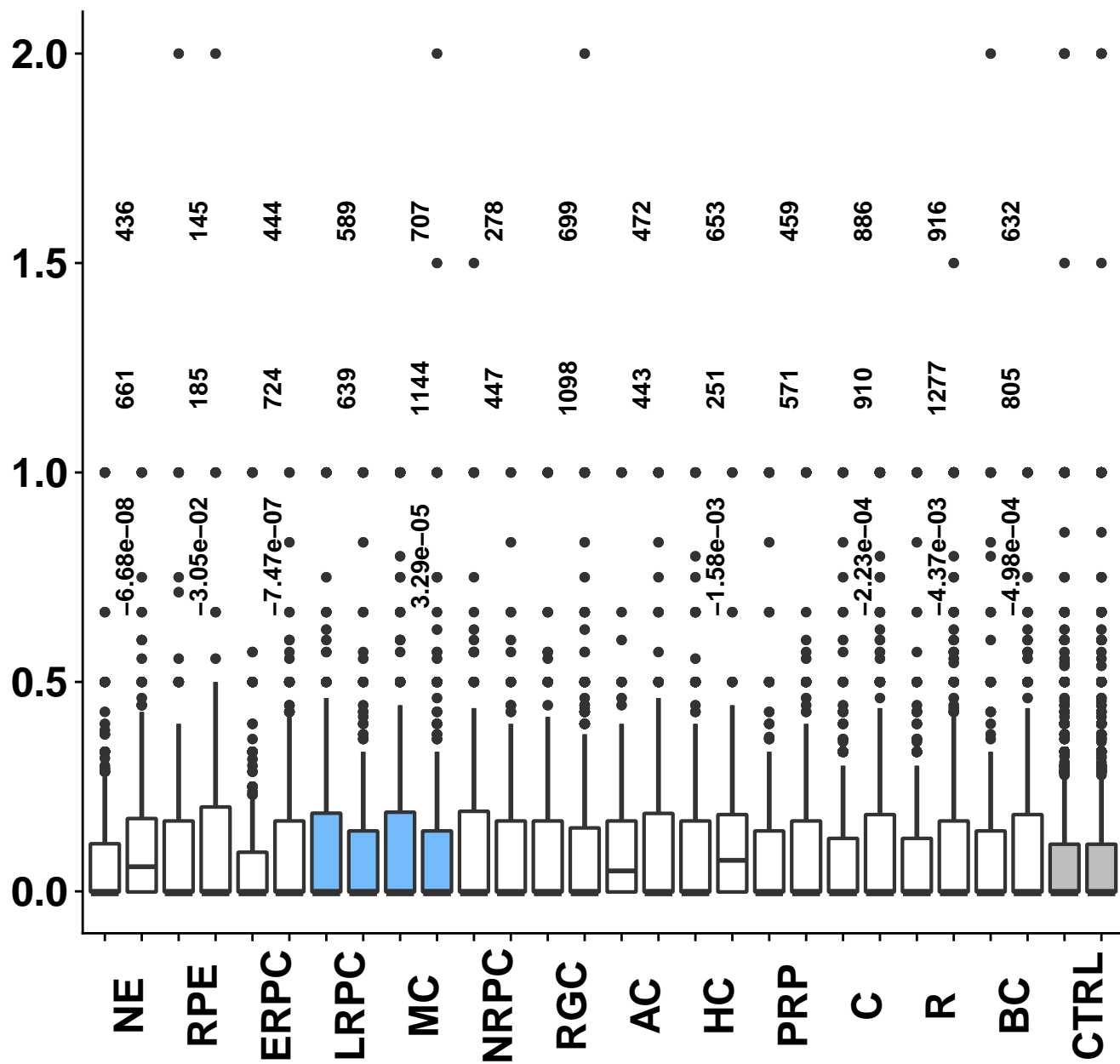
Maff_2_mean



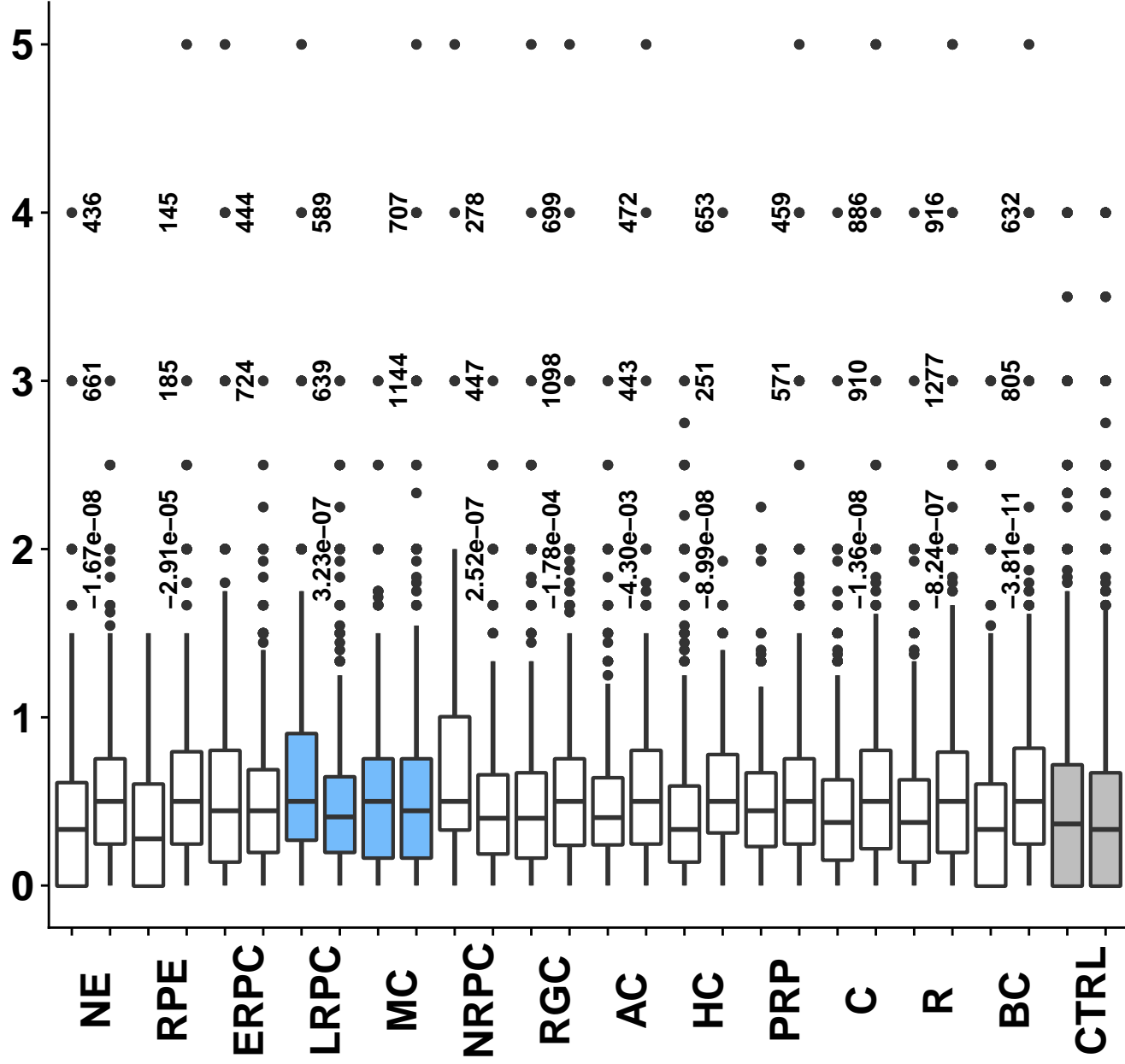
Nfix_1_mean



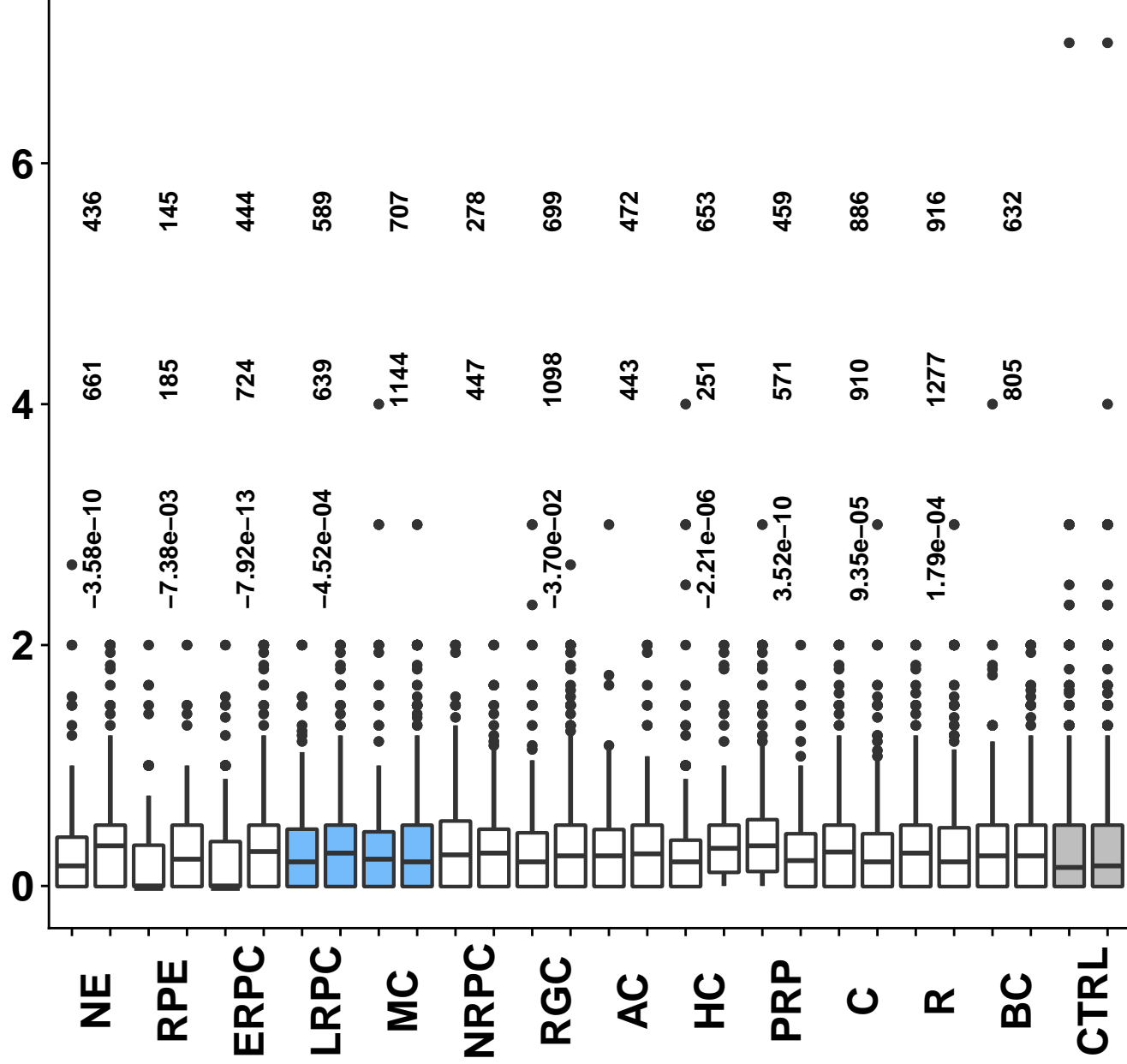
Sox9_1_mean



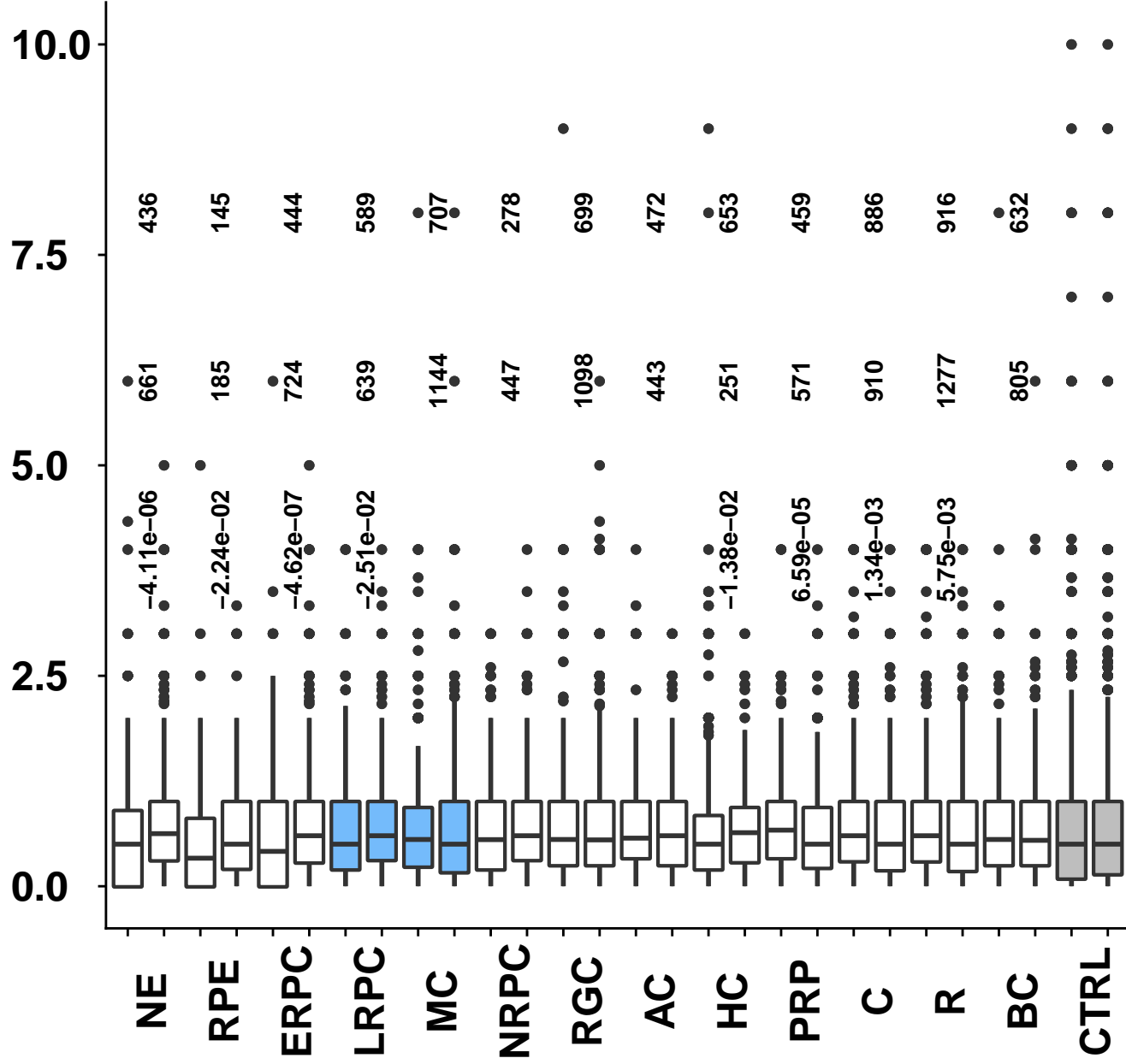
Sox9_2_mean



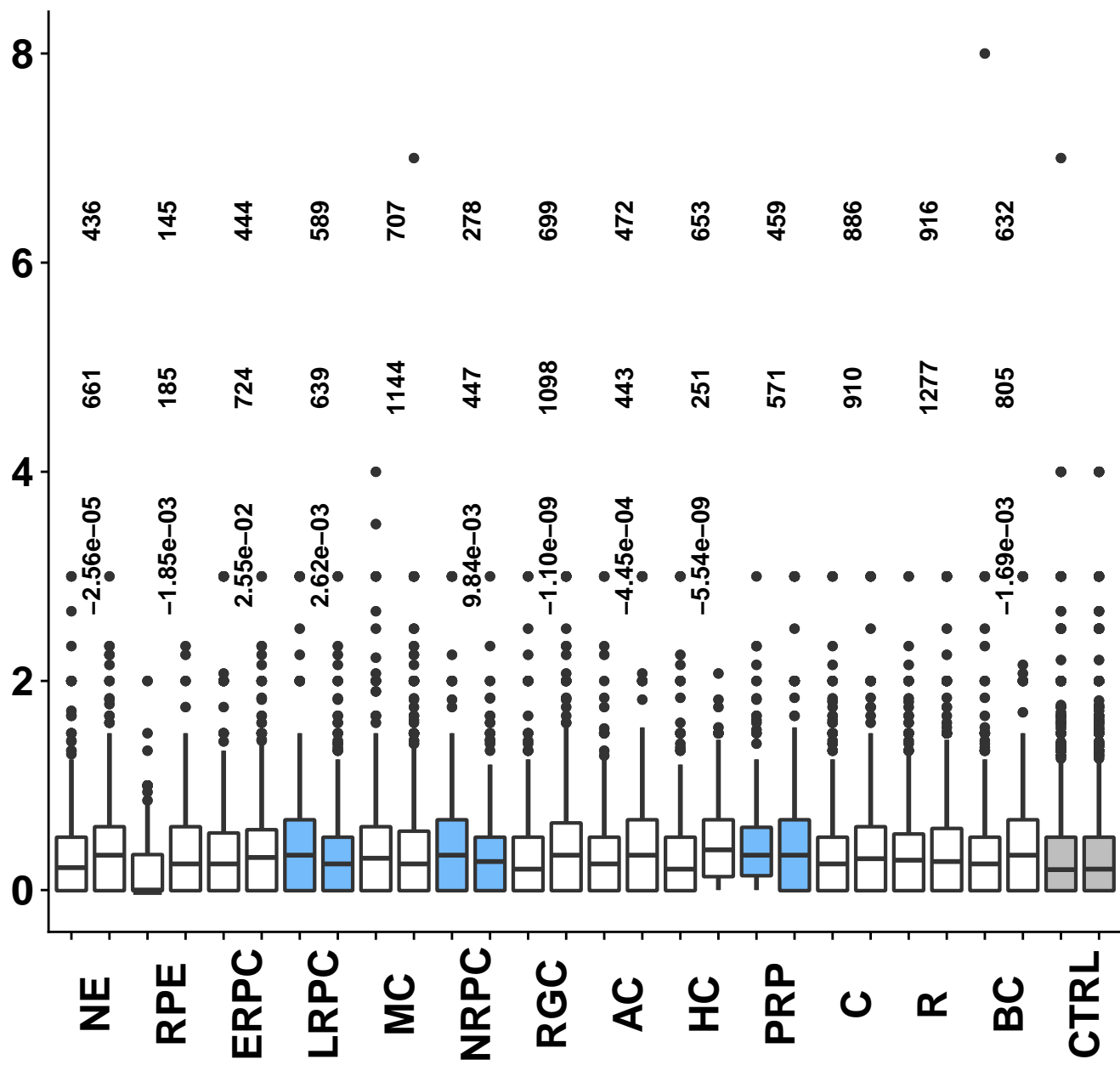
Tcf4_1_mean

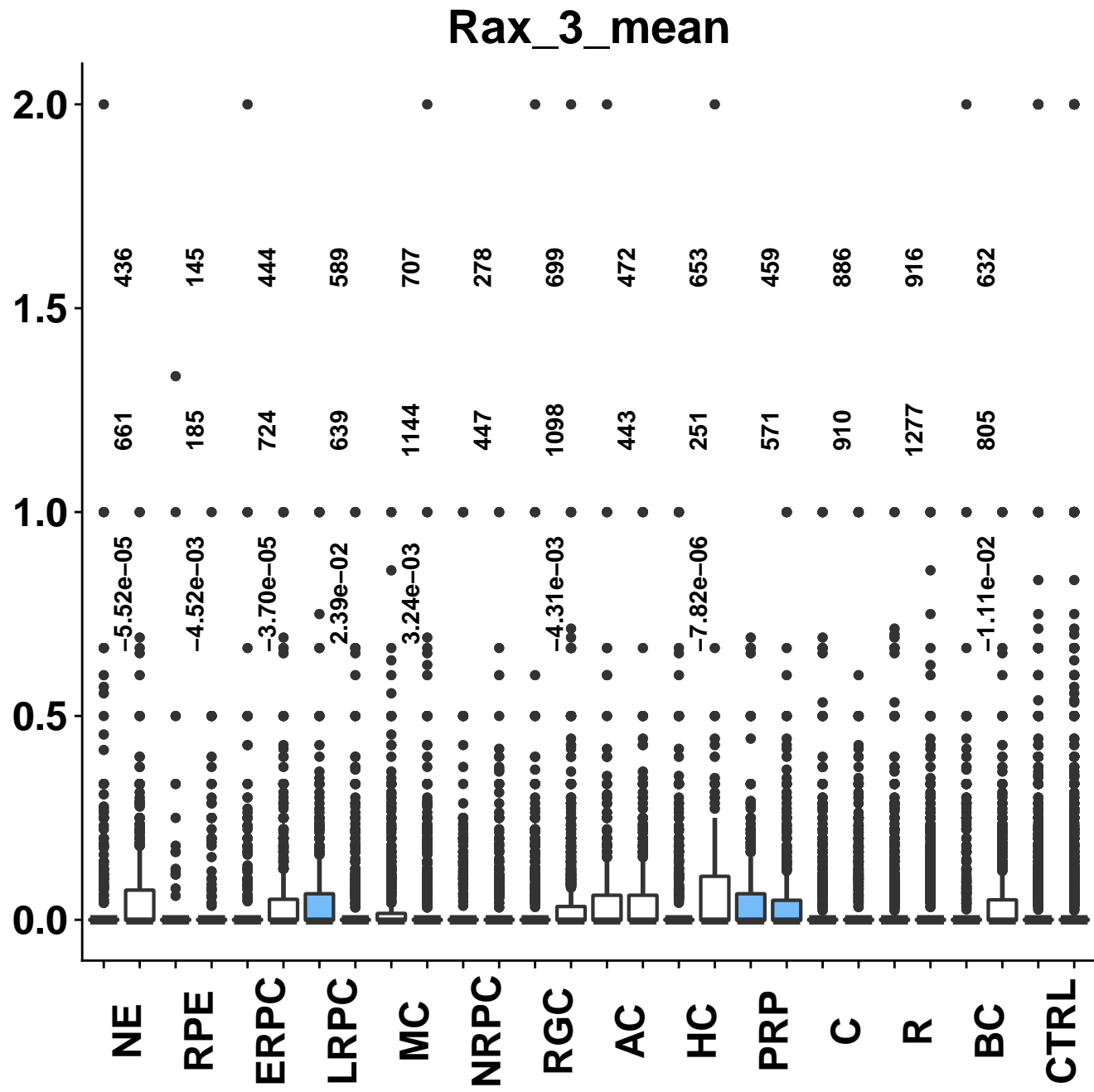


Tcf4_2_mean

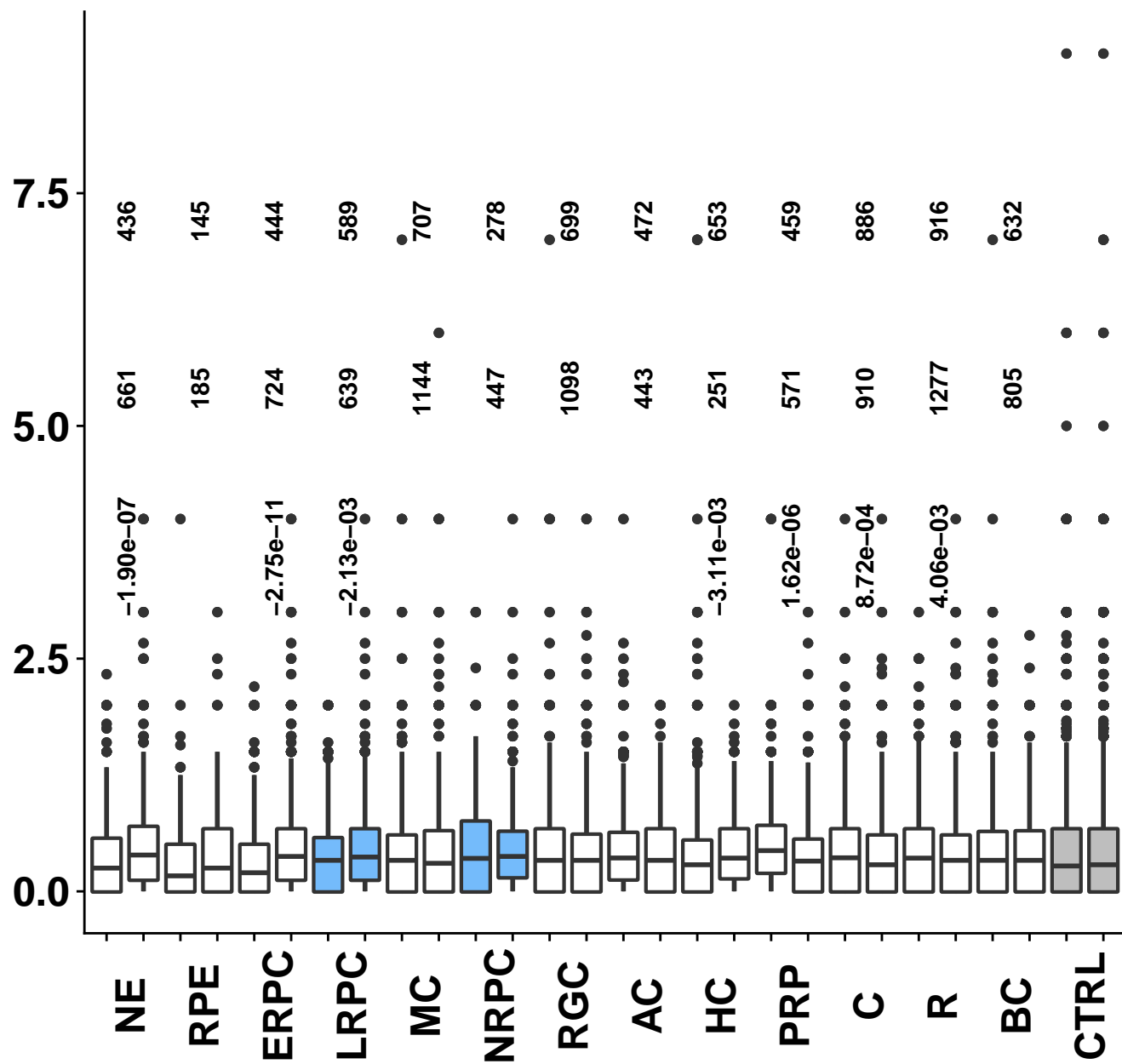


Rax_2_mean

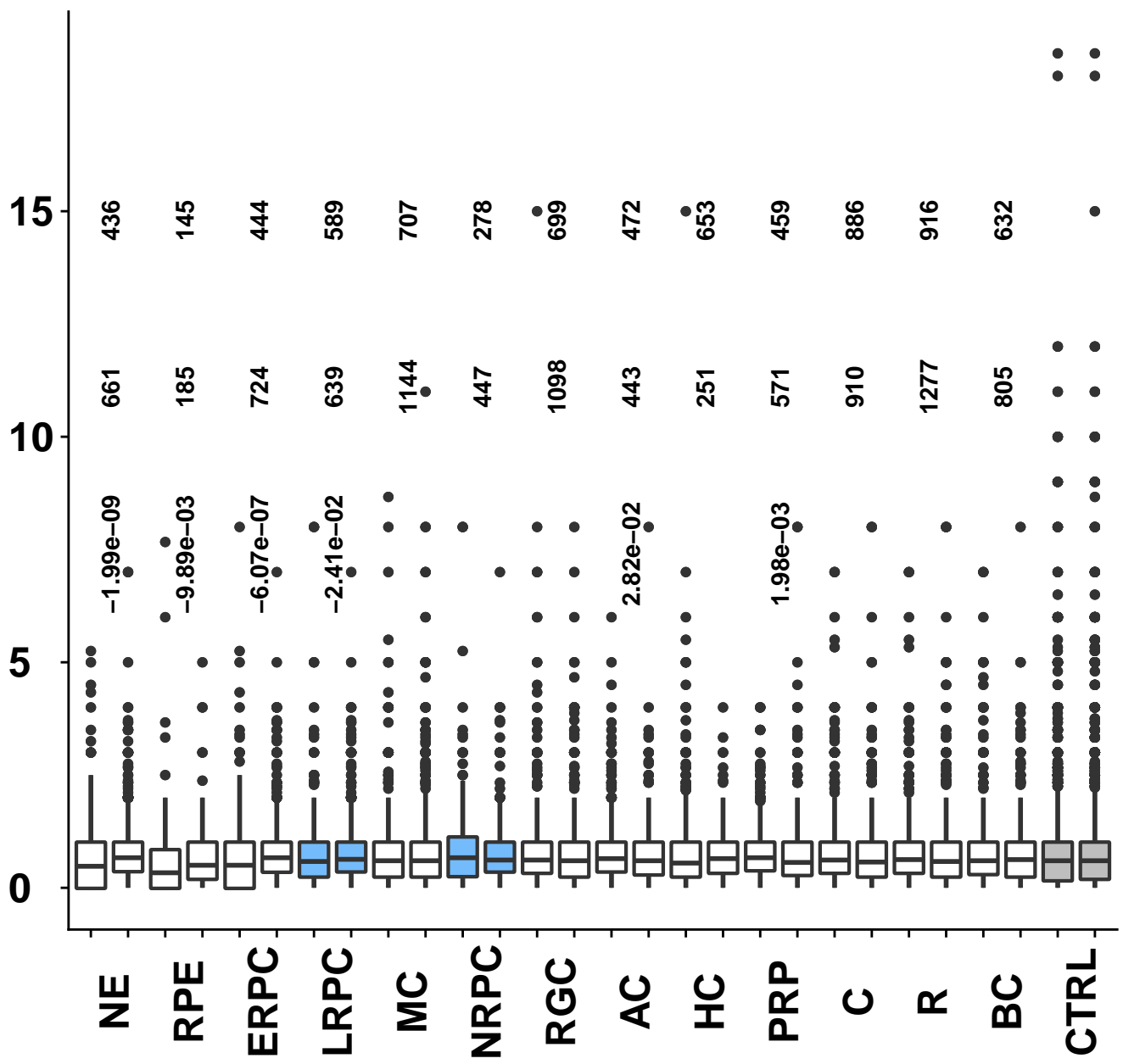




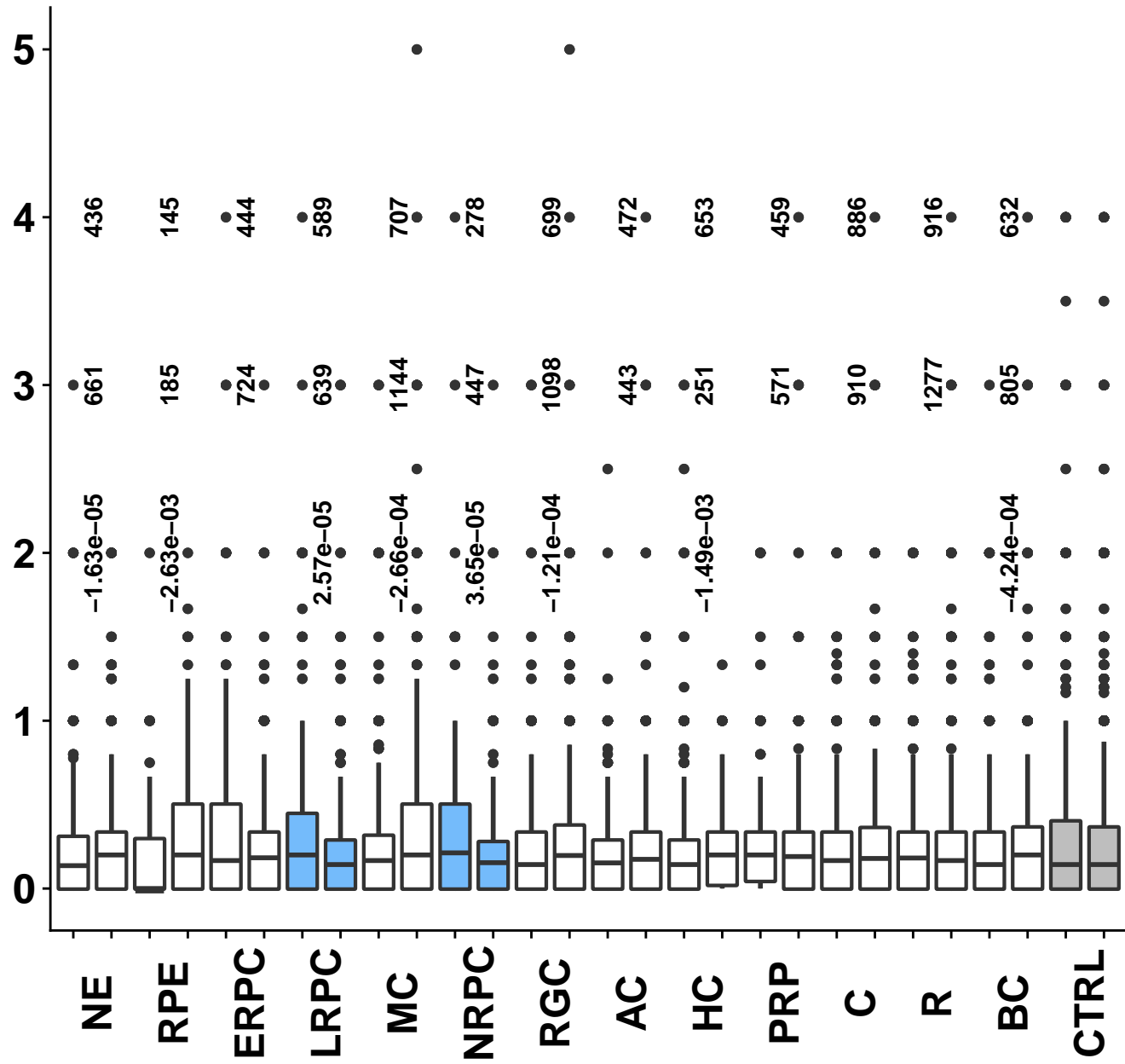
Ascl1_1_mean



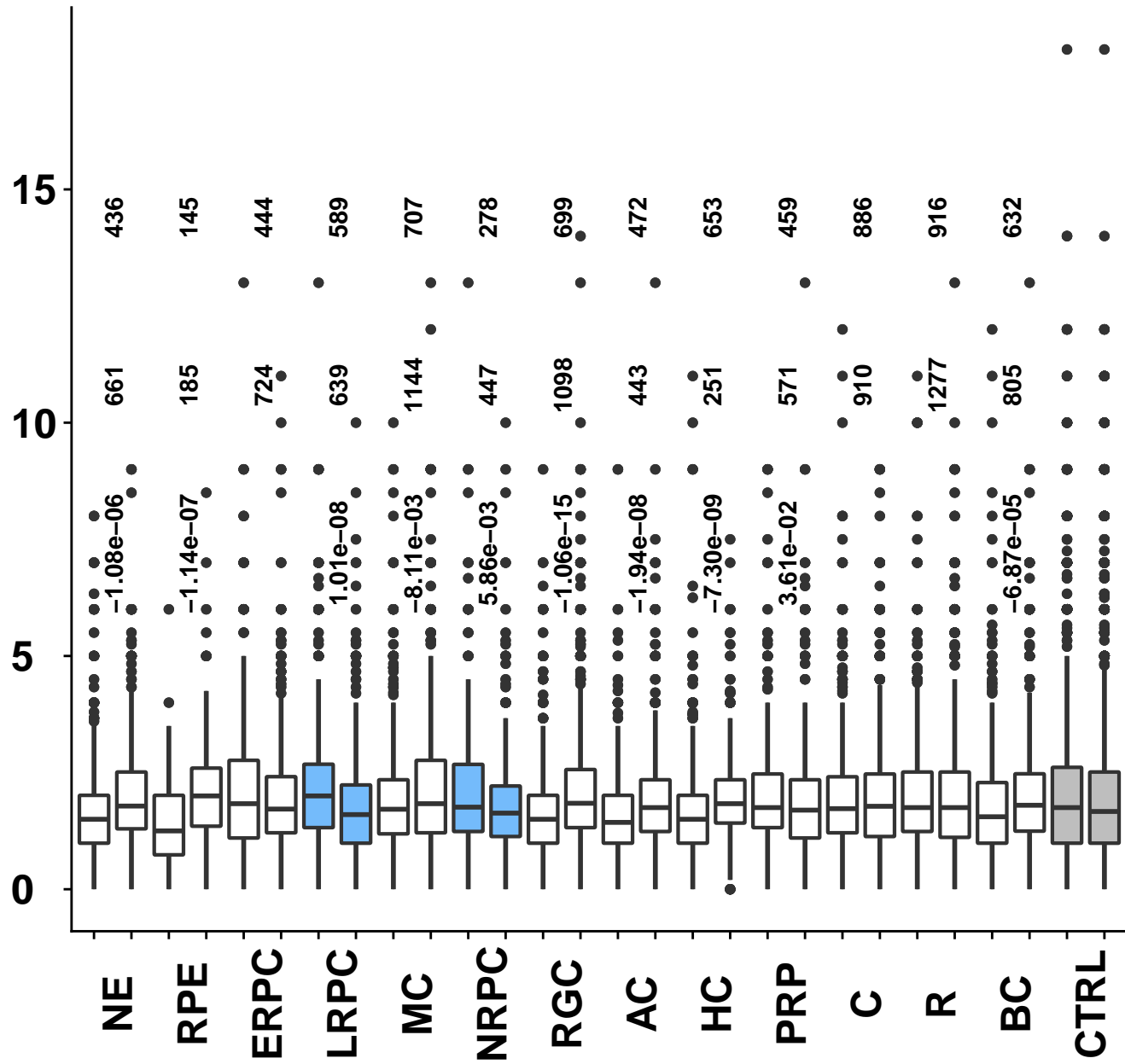
Ascl1_2_mean



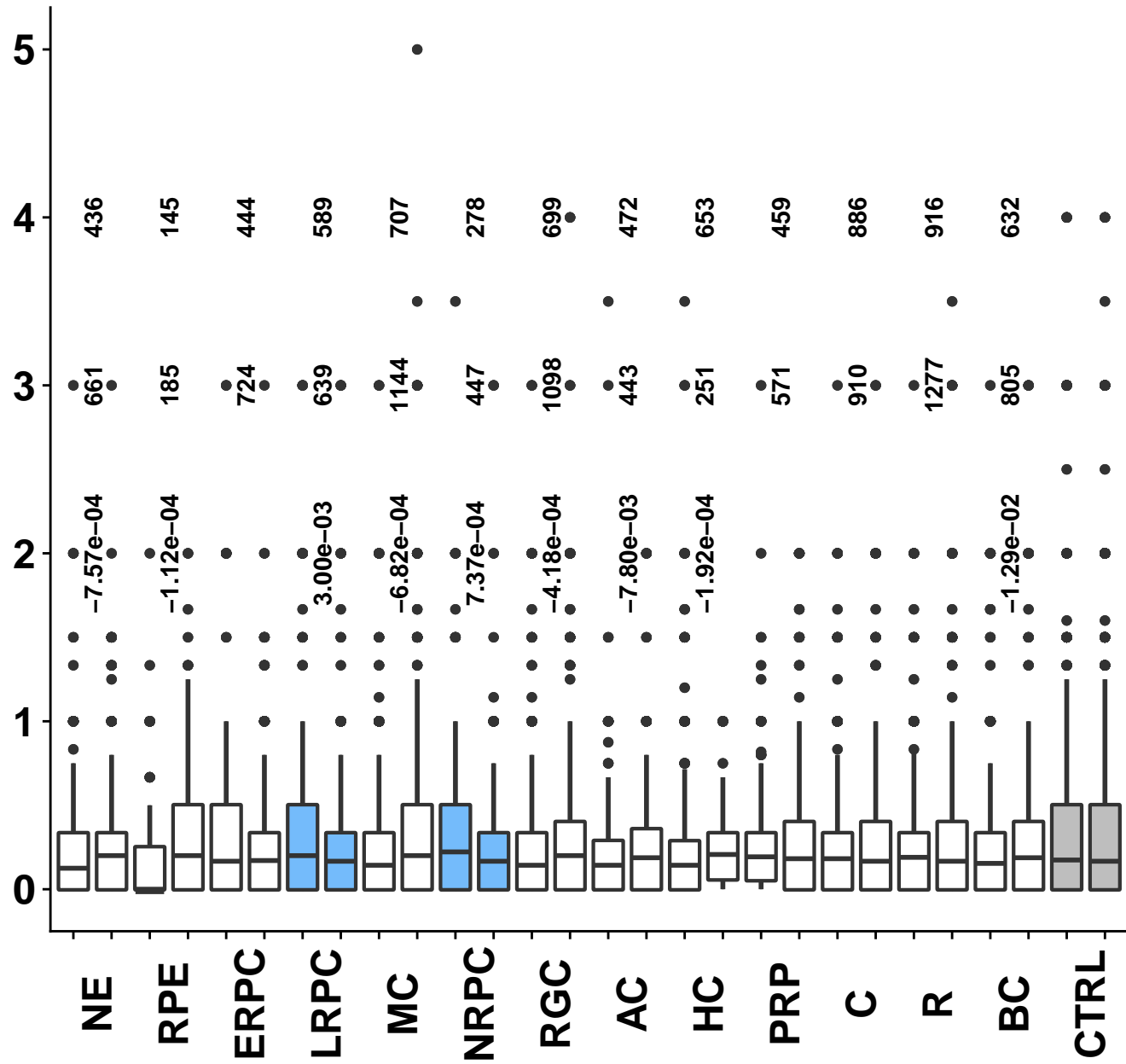
Myb_3_mean



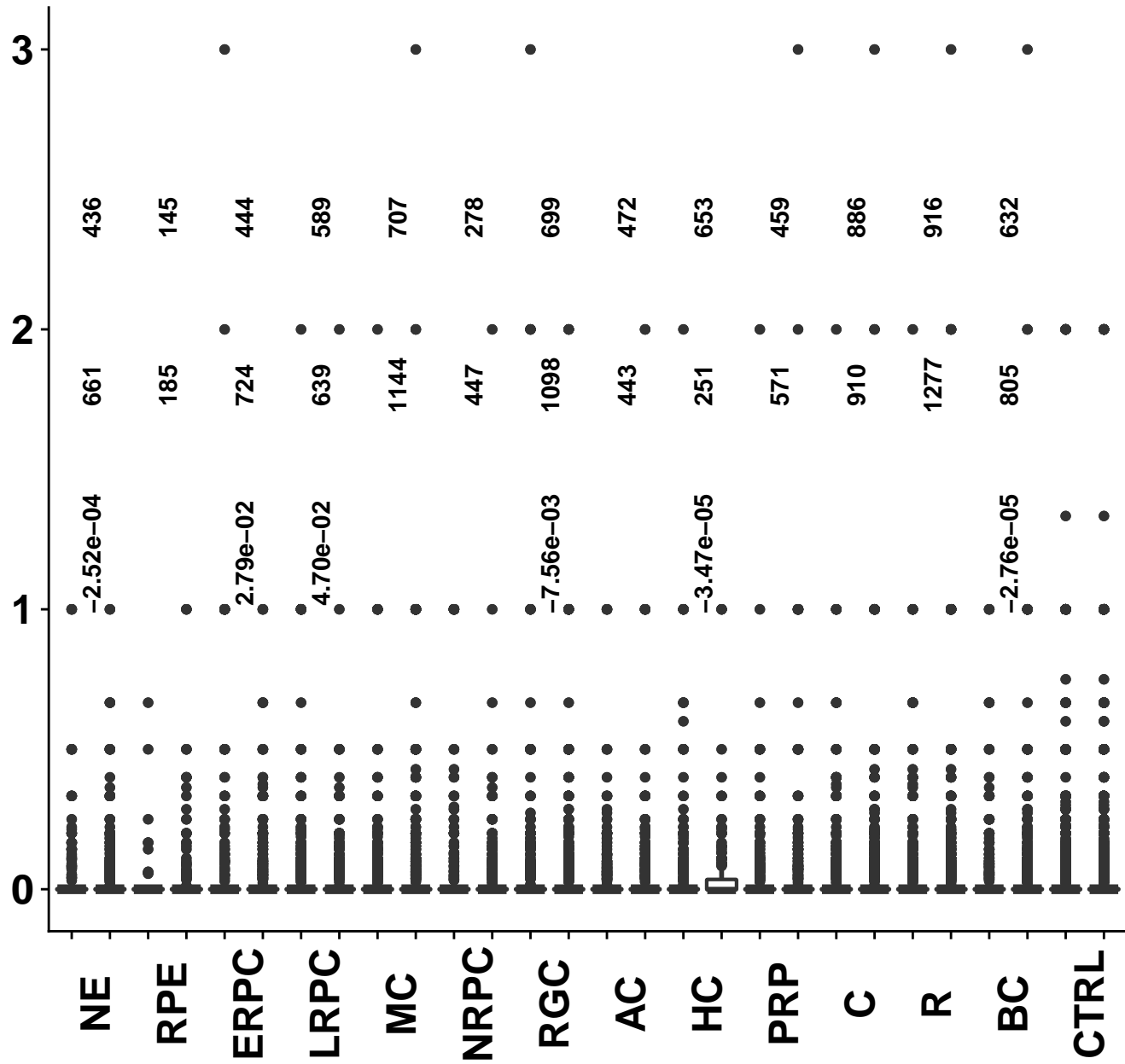
Myb_4_mean



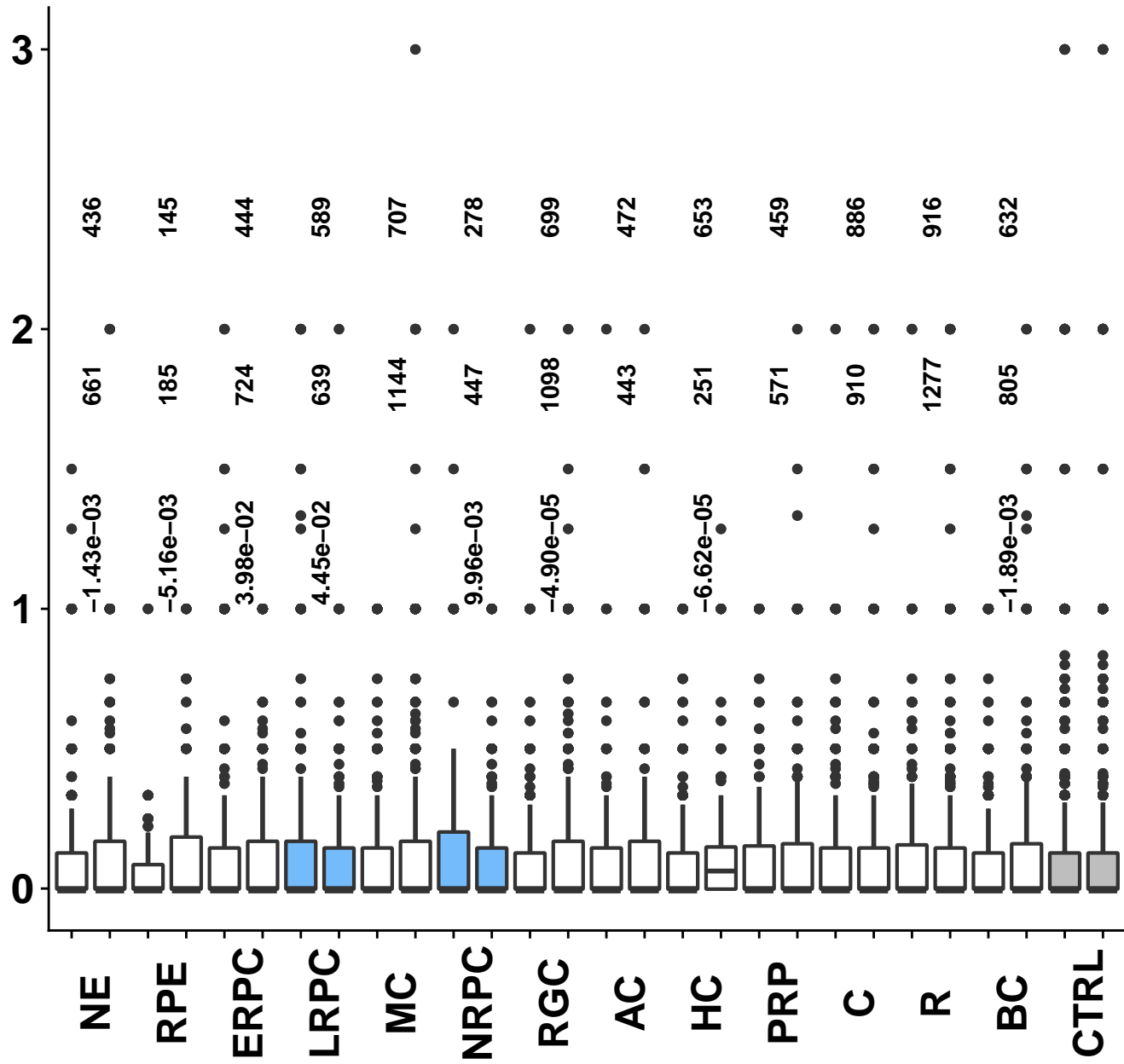
Myb_7_mean



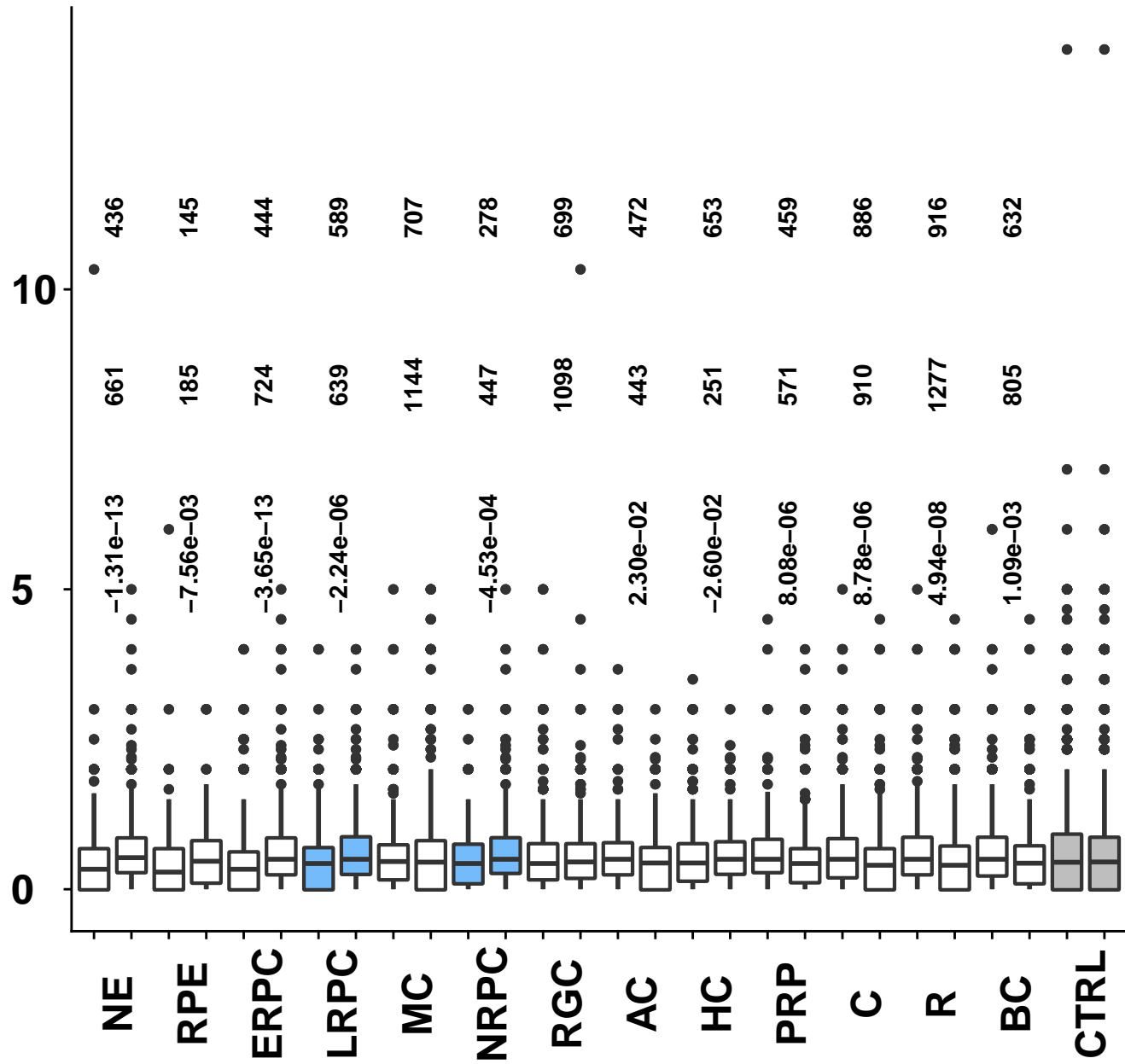
Myb_8_mean



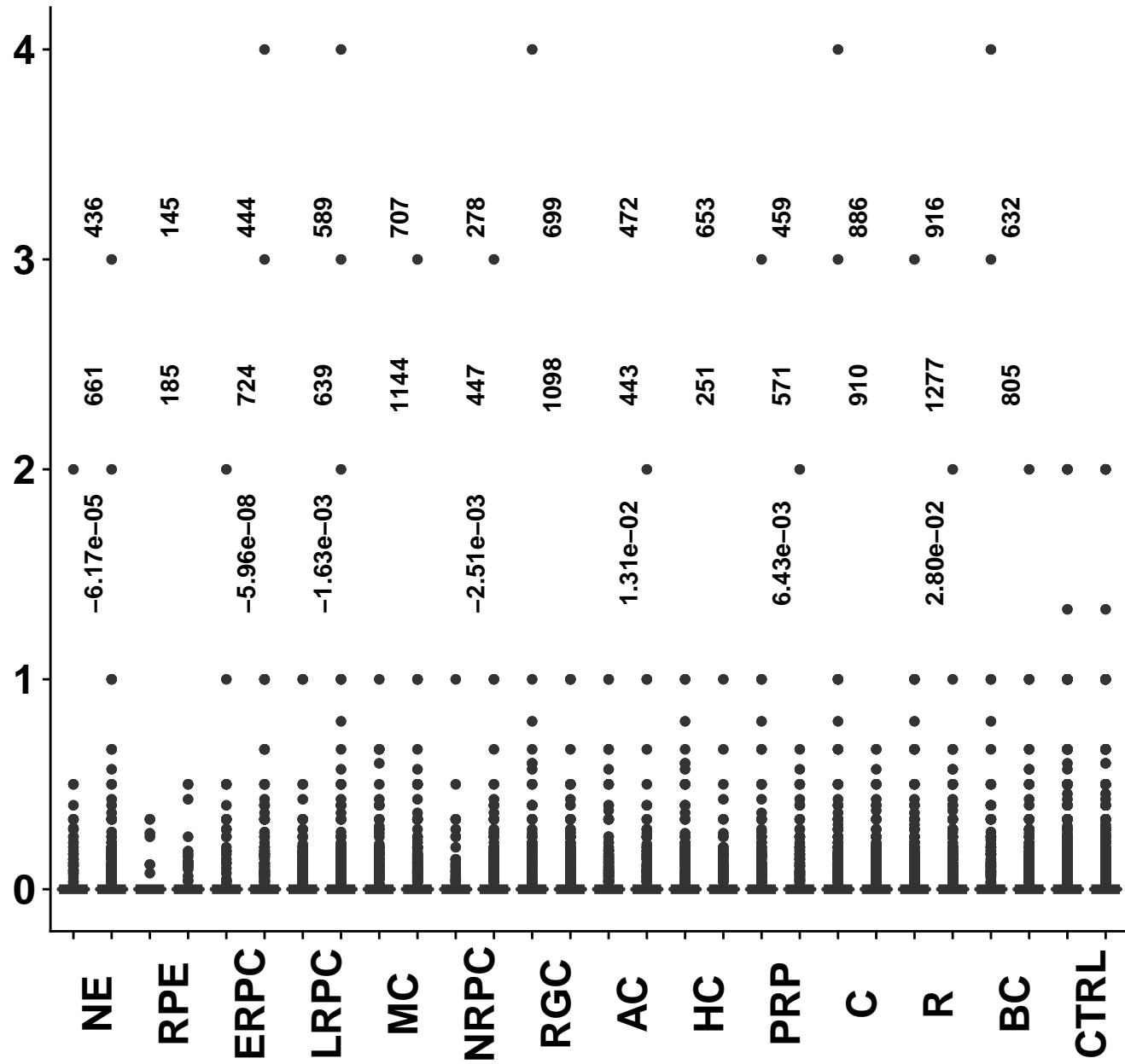
Myb_10_mean



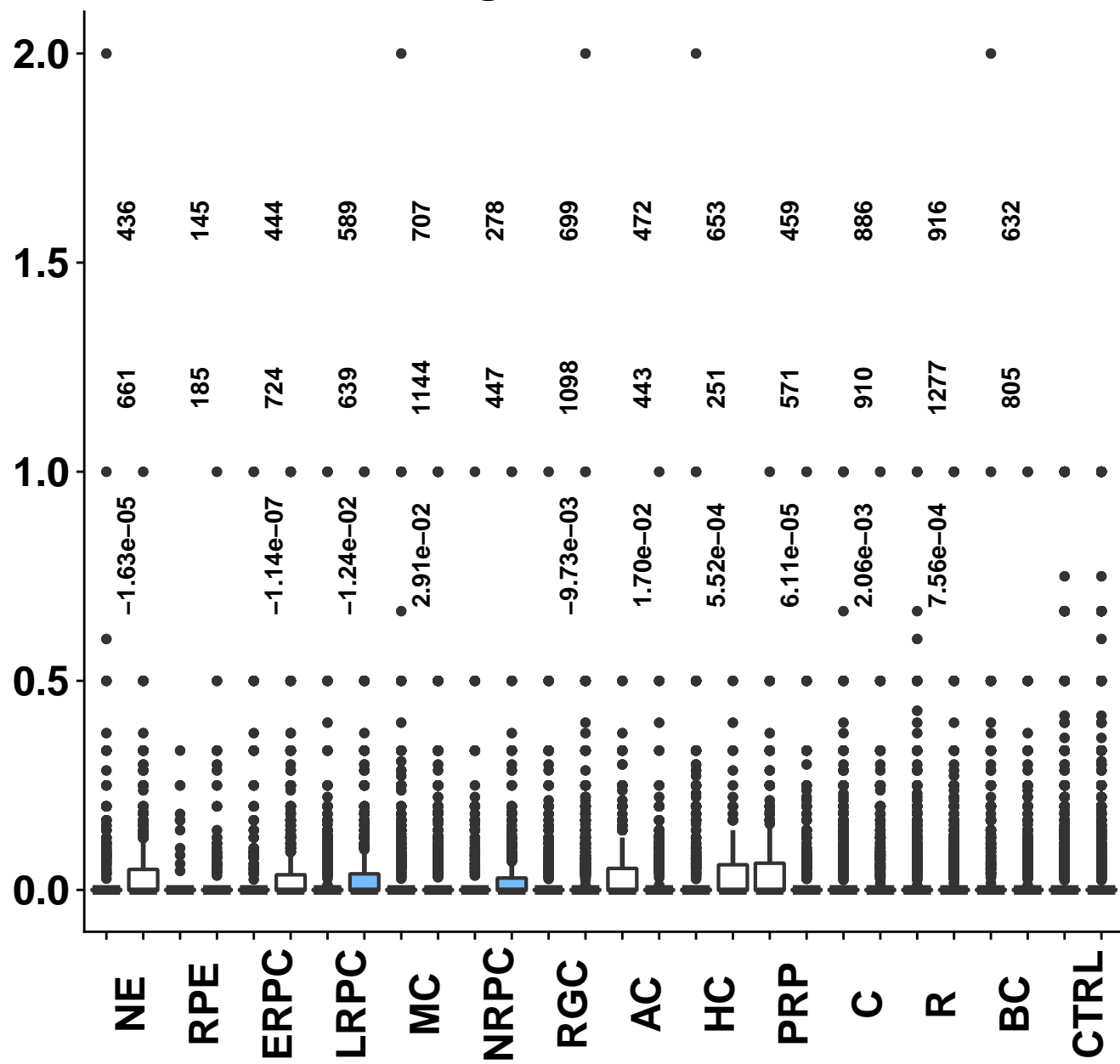
Tgif2_1_mean



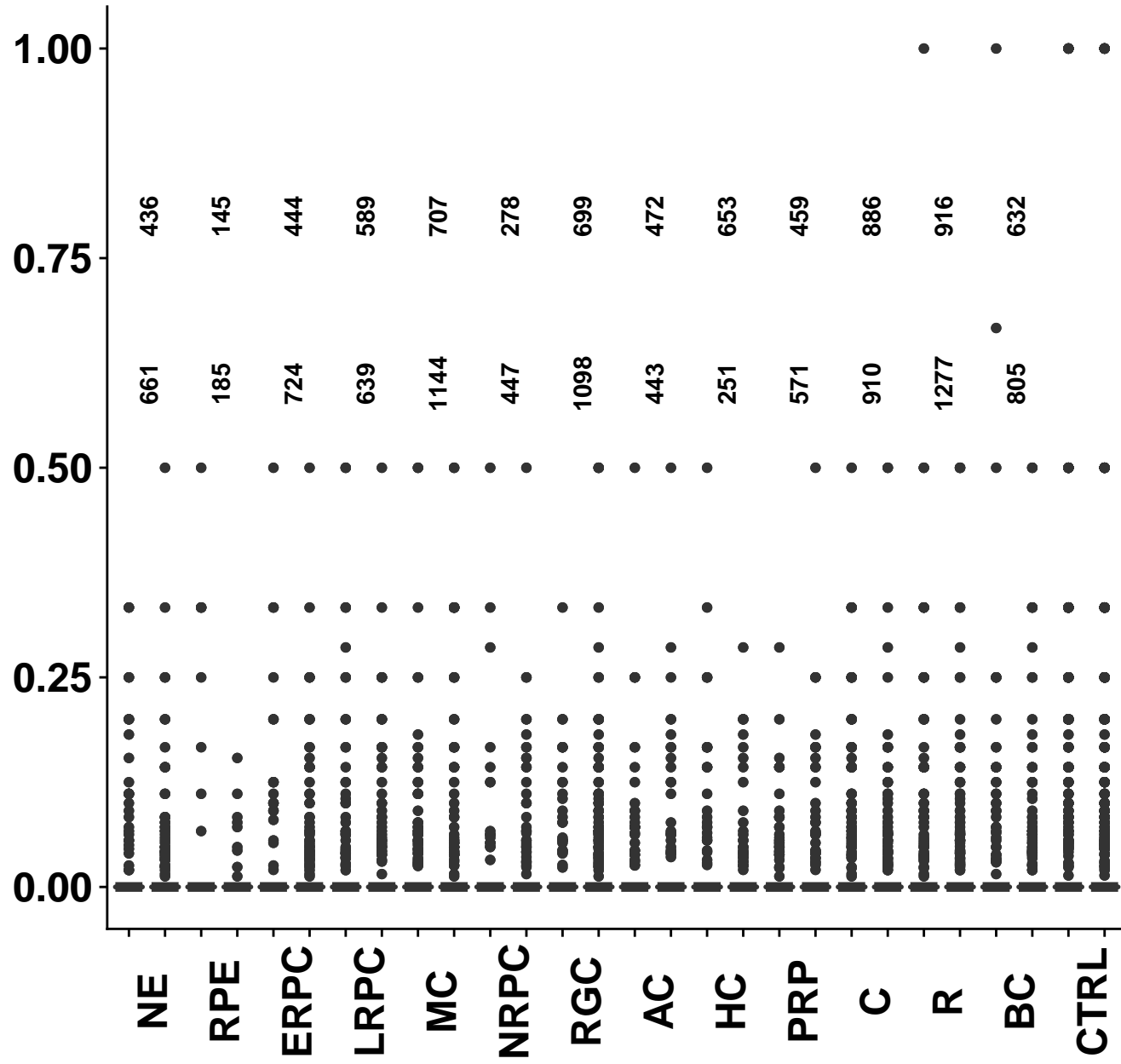
Tgif2_2_mean



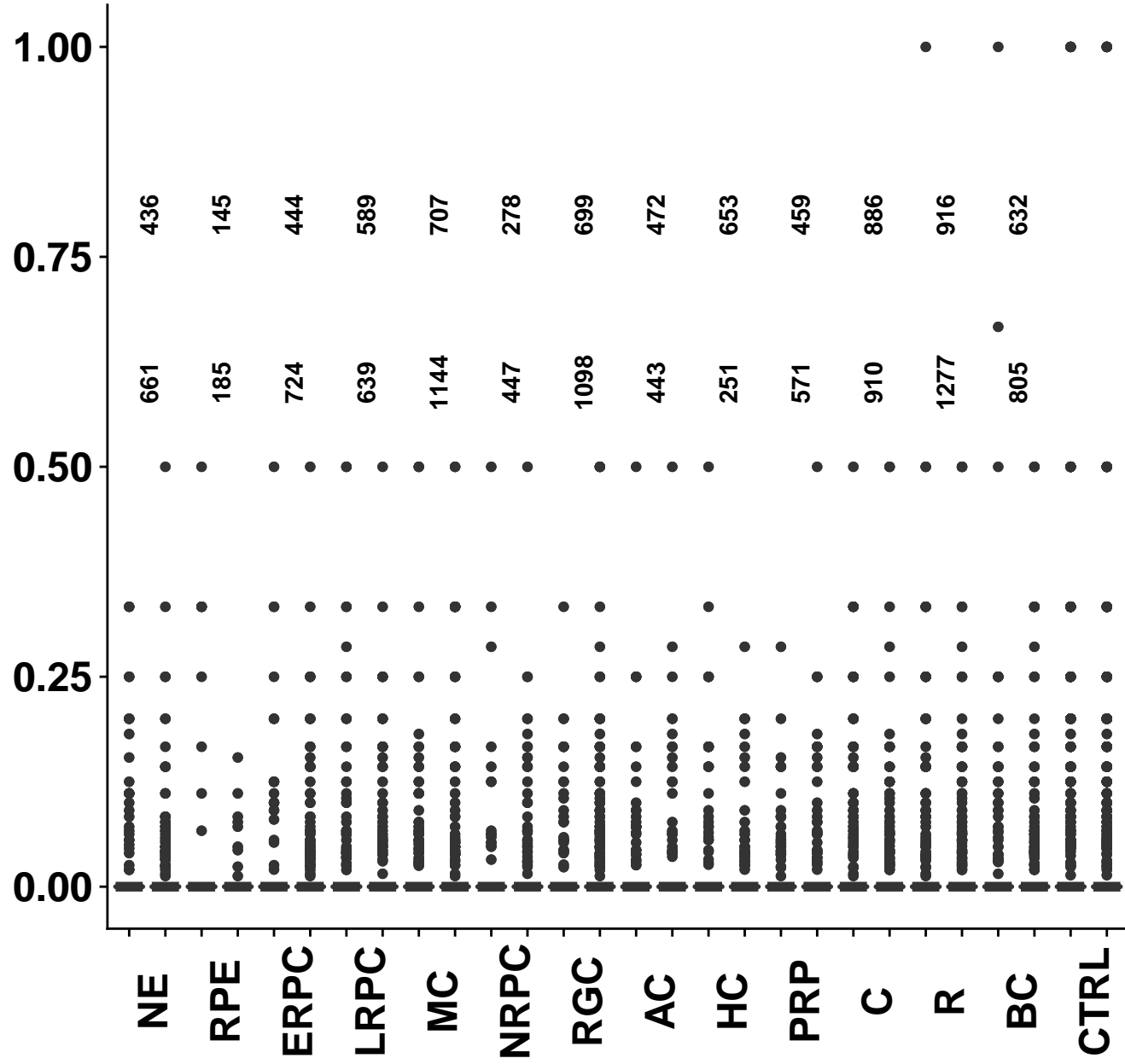
Tgif2_3_mean



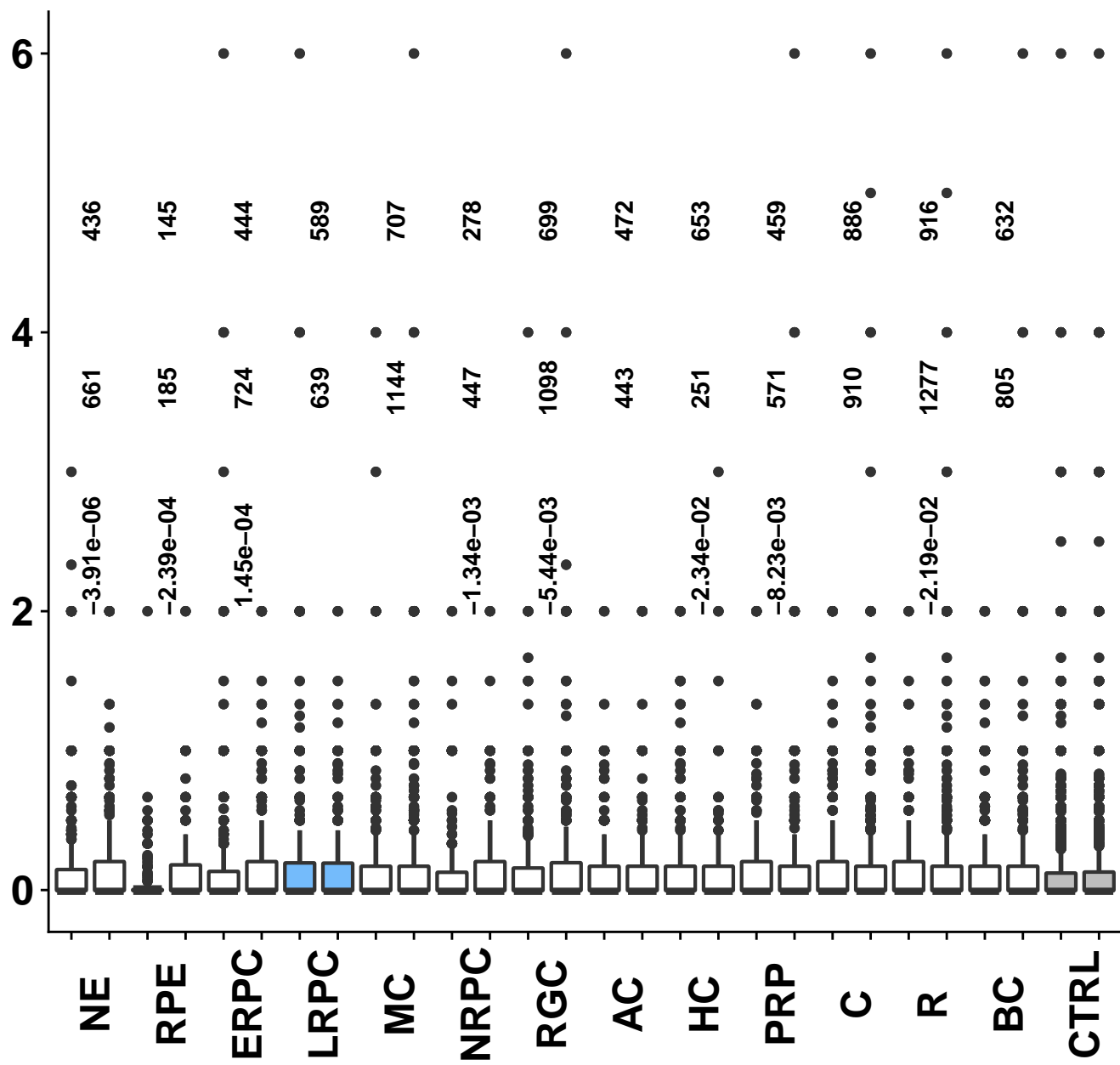
Six3_1_mean



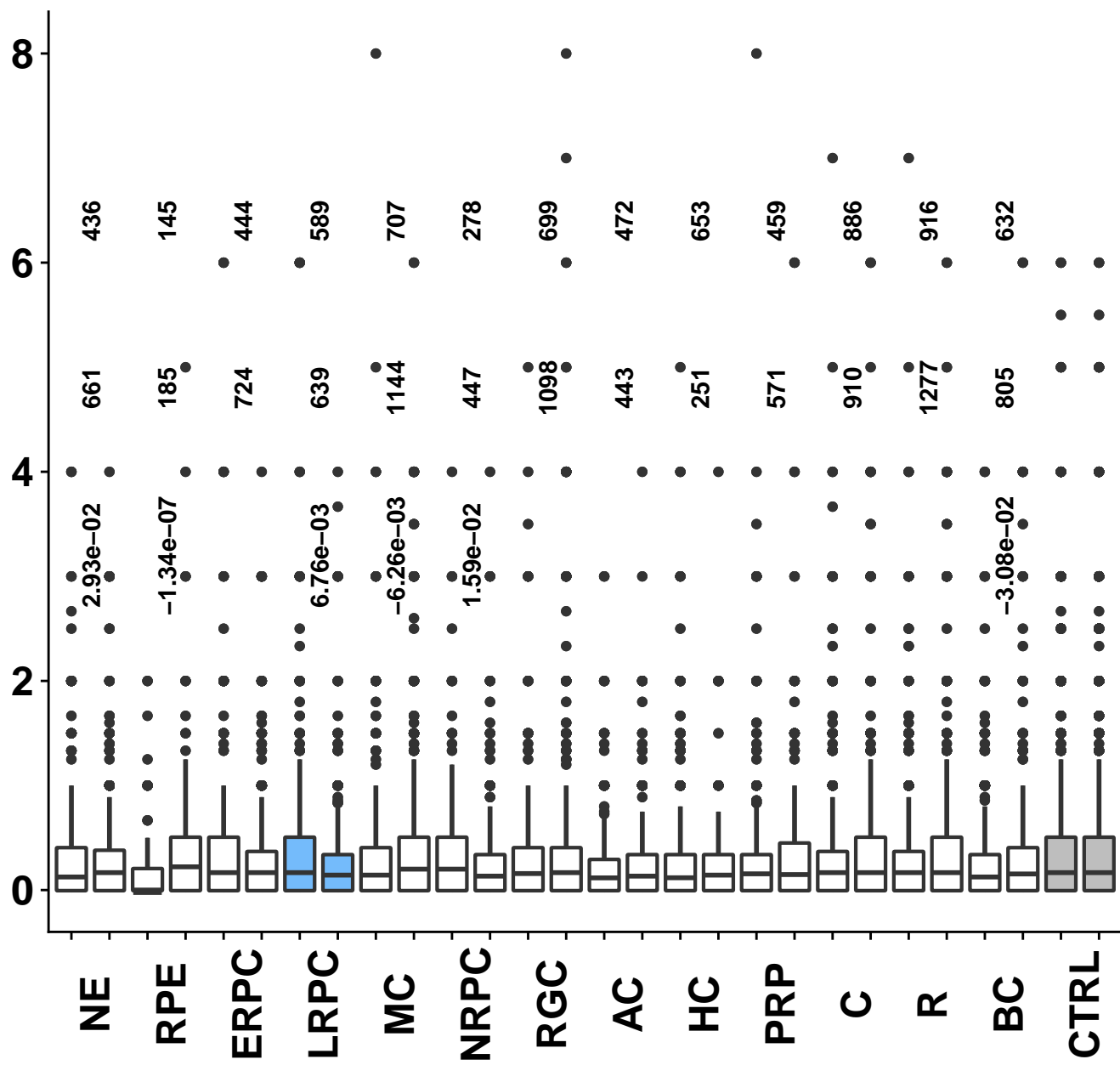
Six3_2_mean



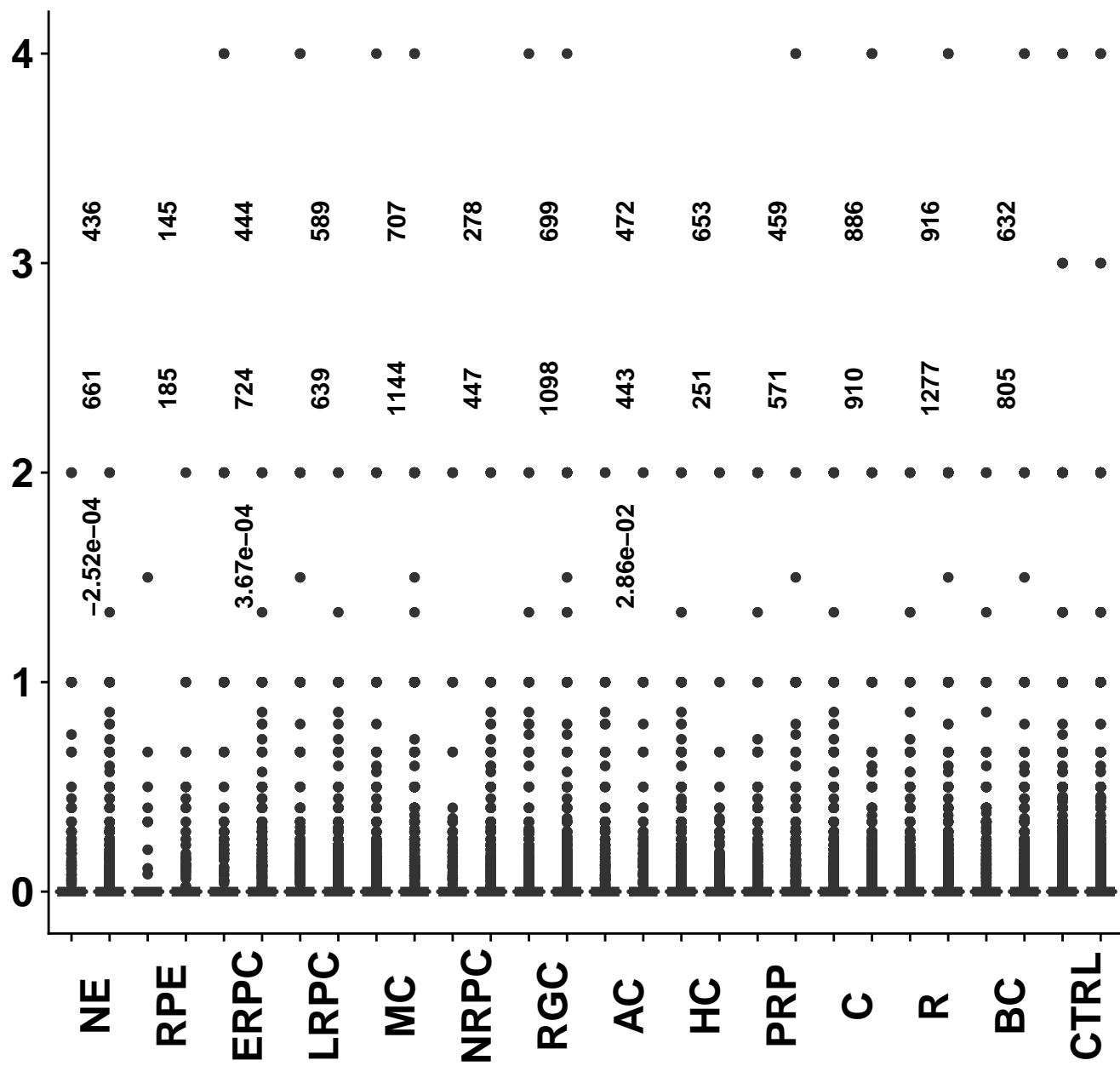
Atf1_1_mean



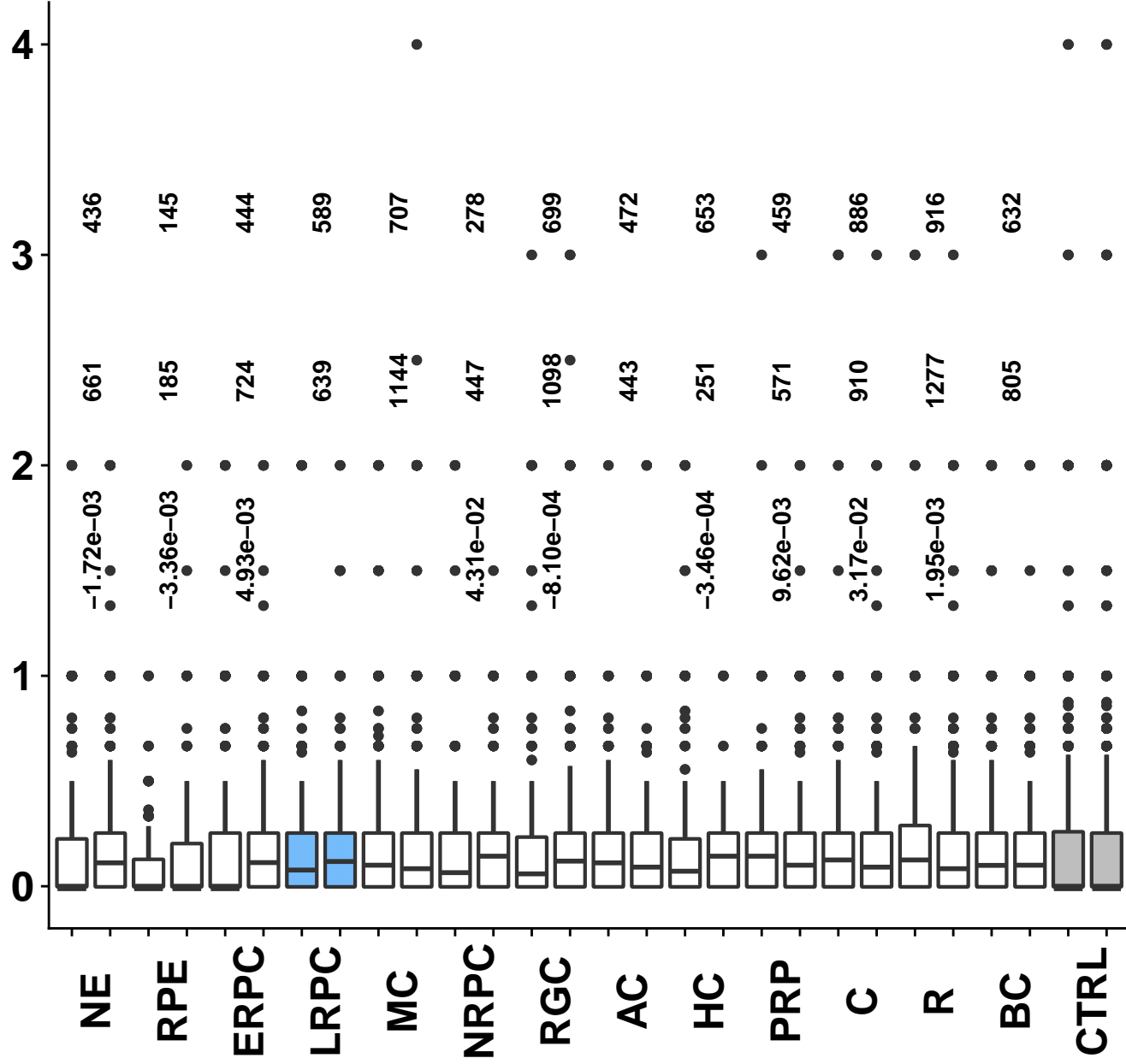
Atf1_2_mean



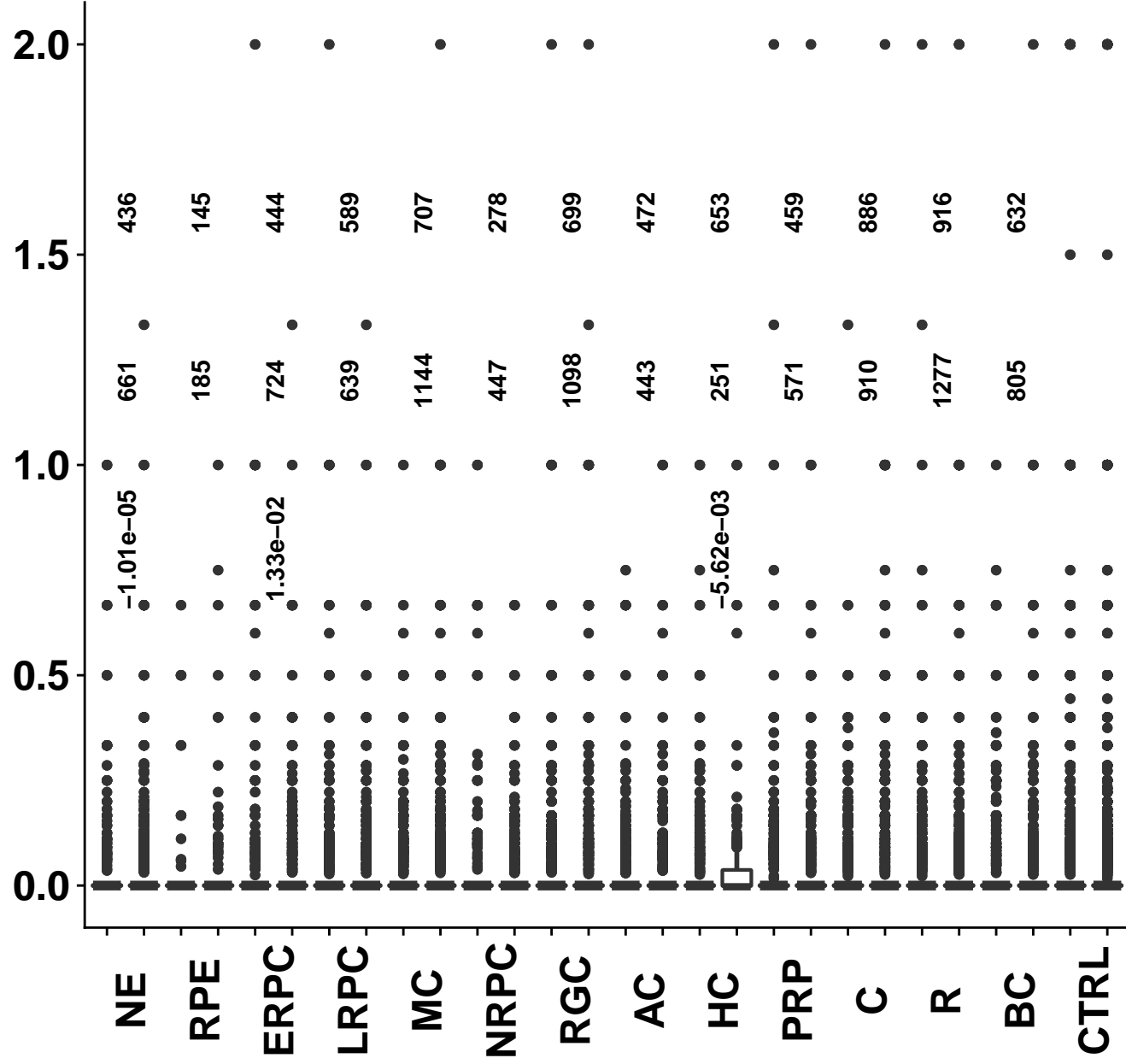
Atf1_3_mean



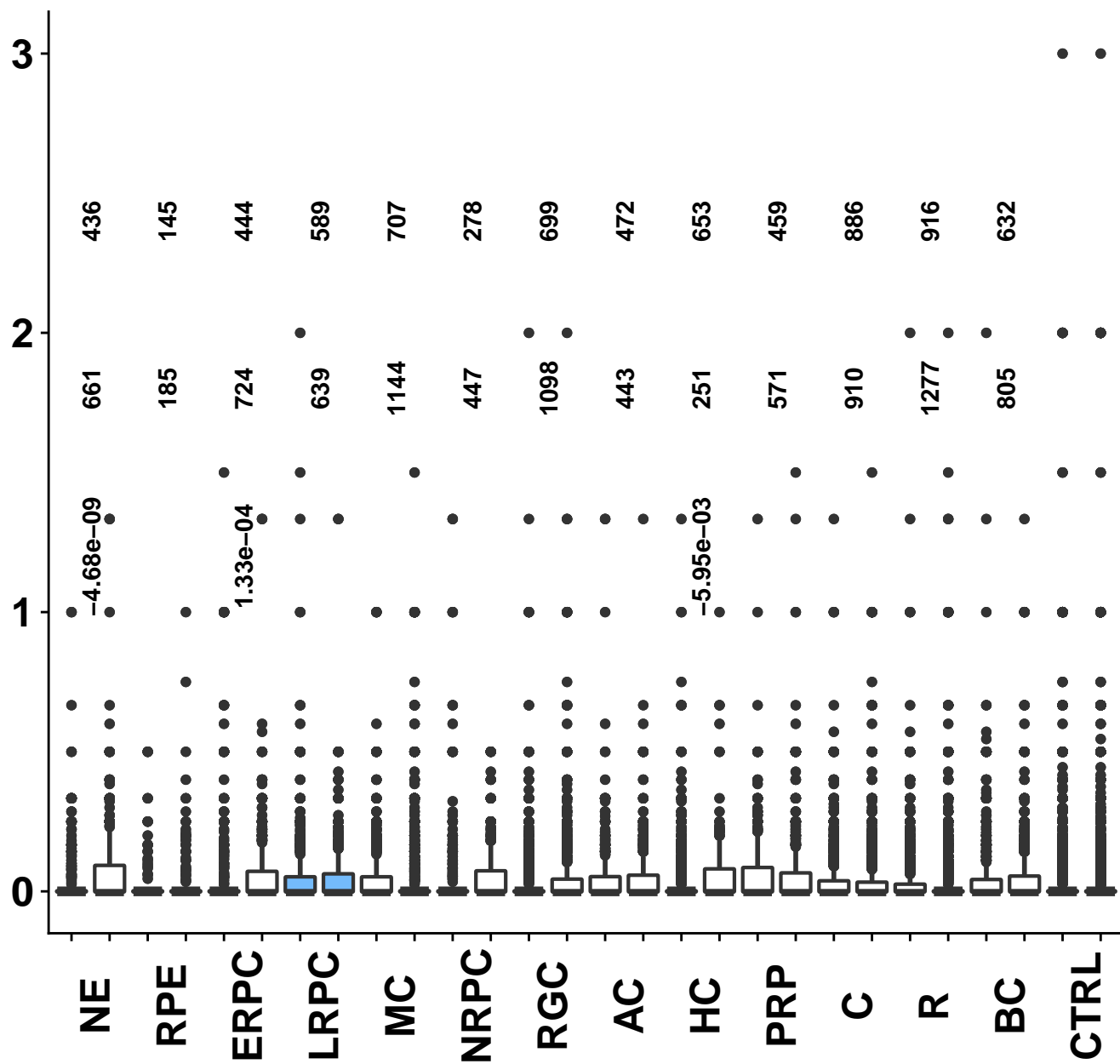
Atf1_4_mean



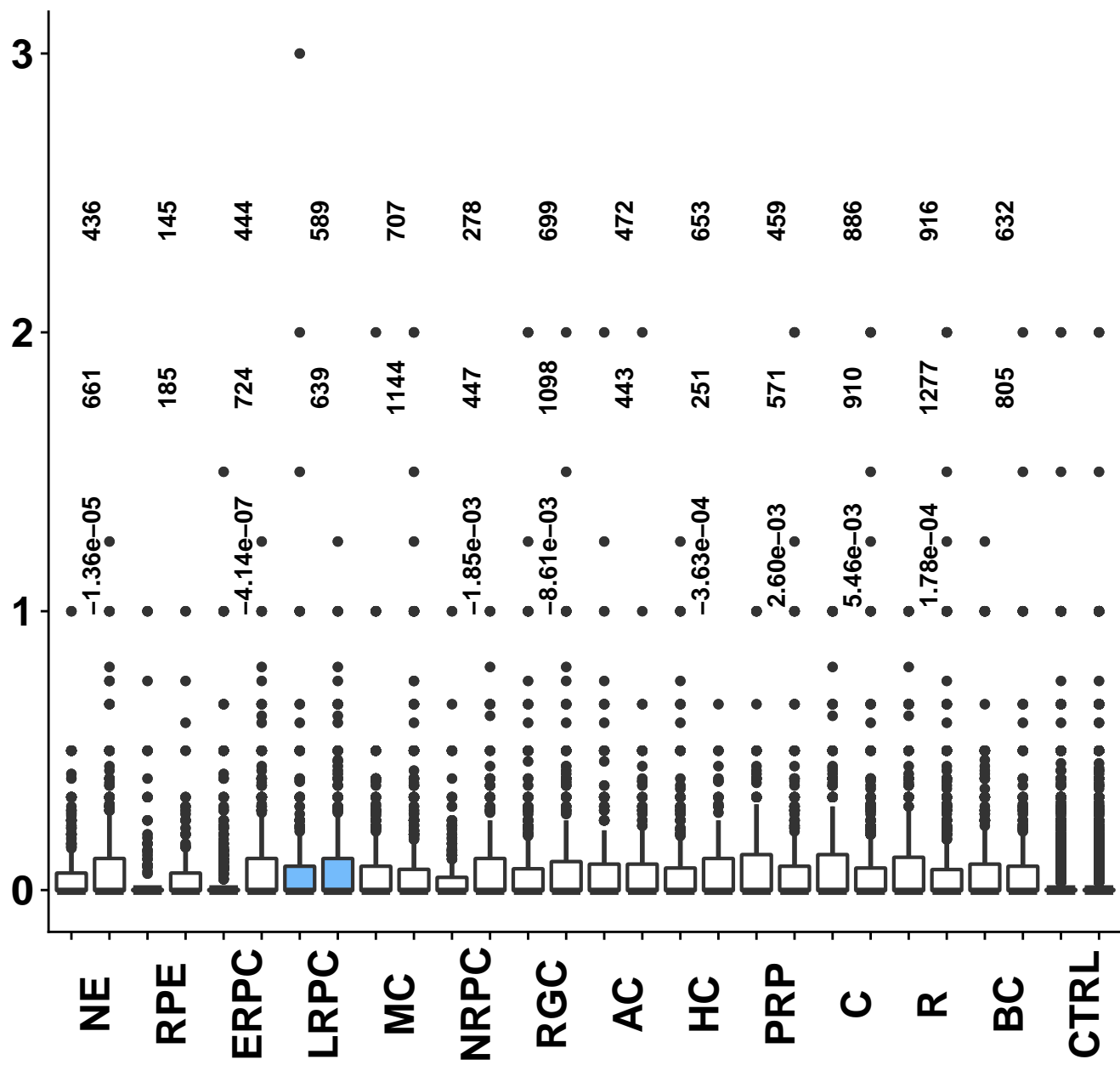
Cux1_1_mean



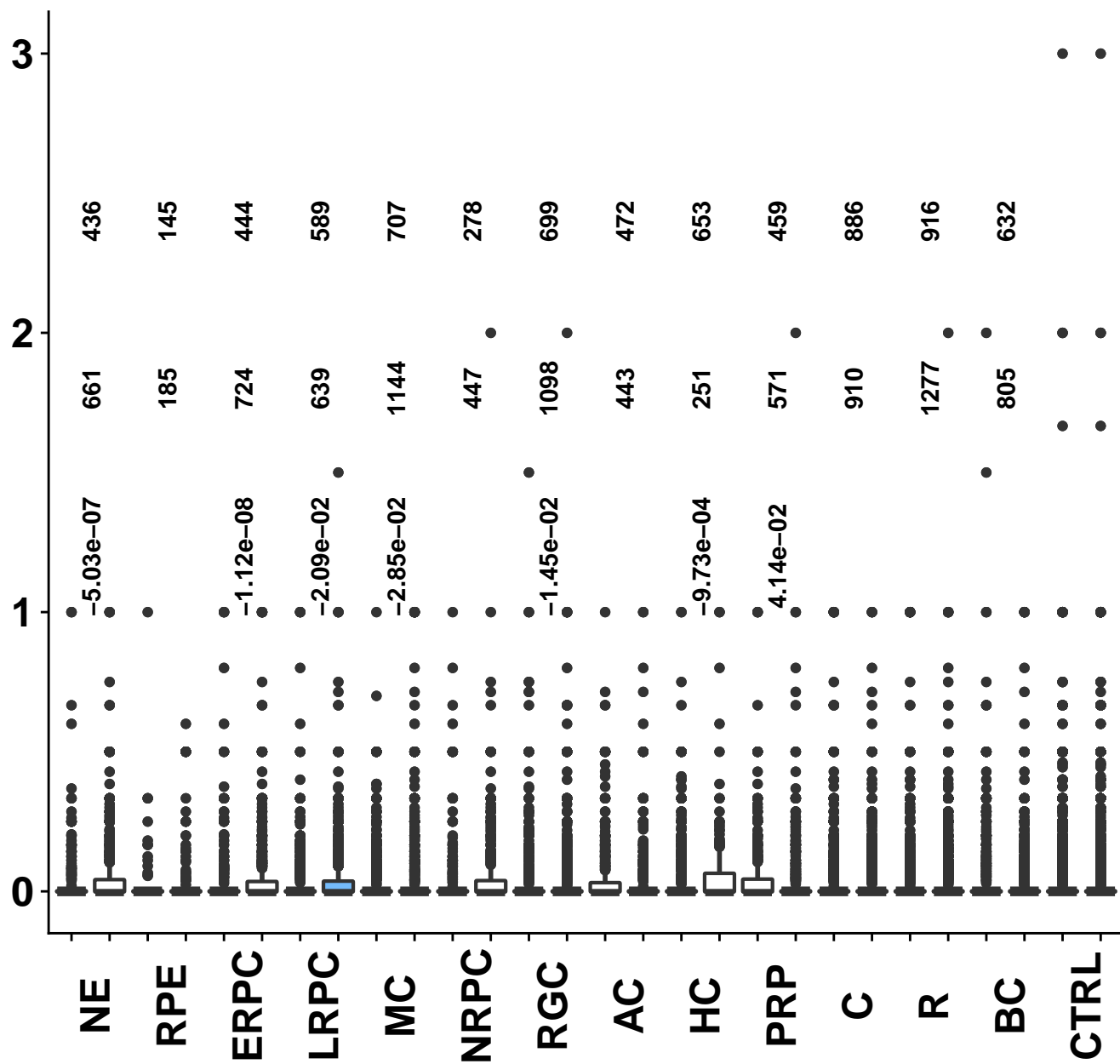
Cux1_2_mean

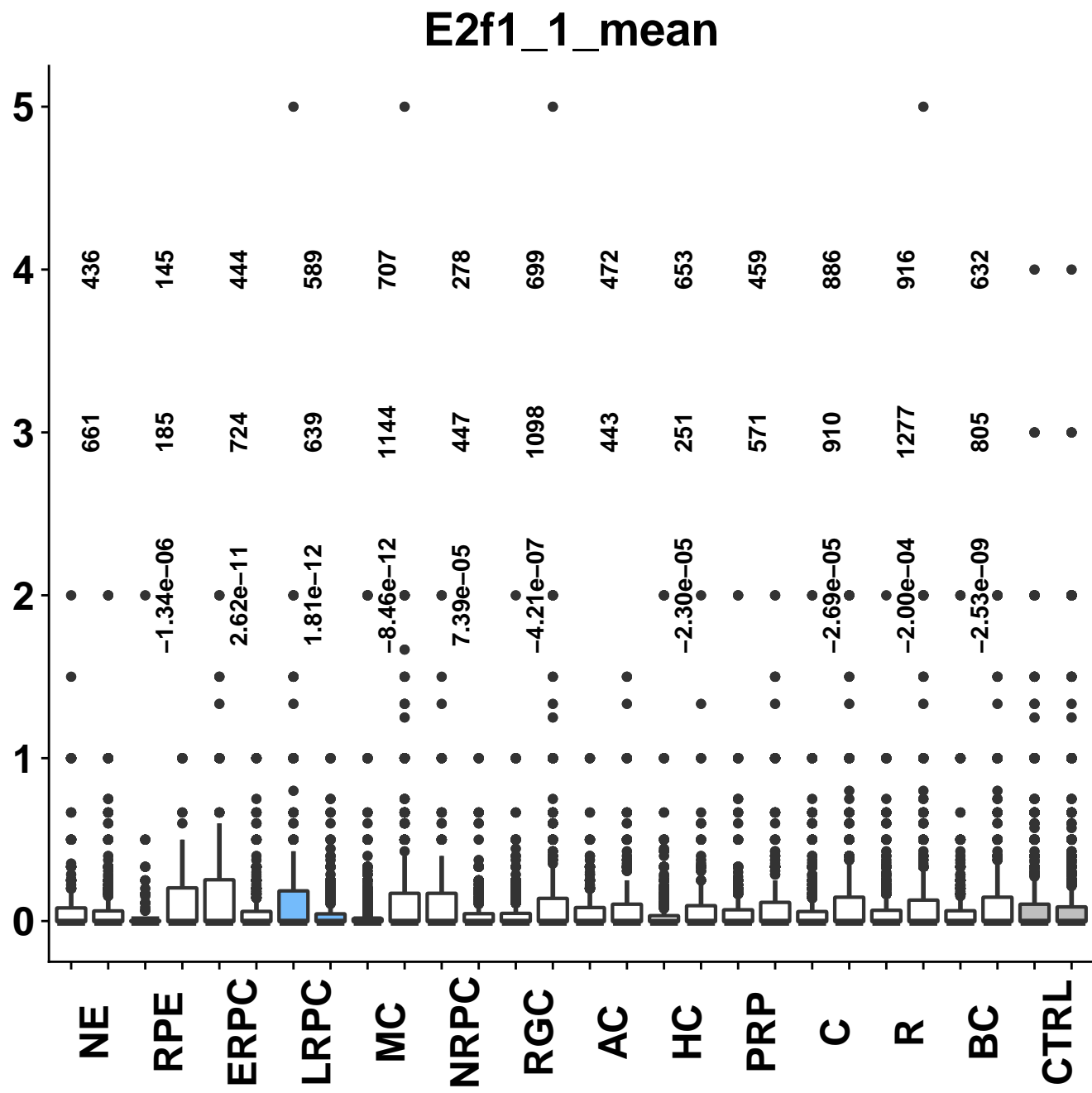


Cux1_3_mean

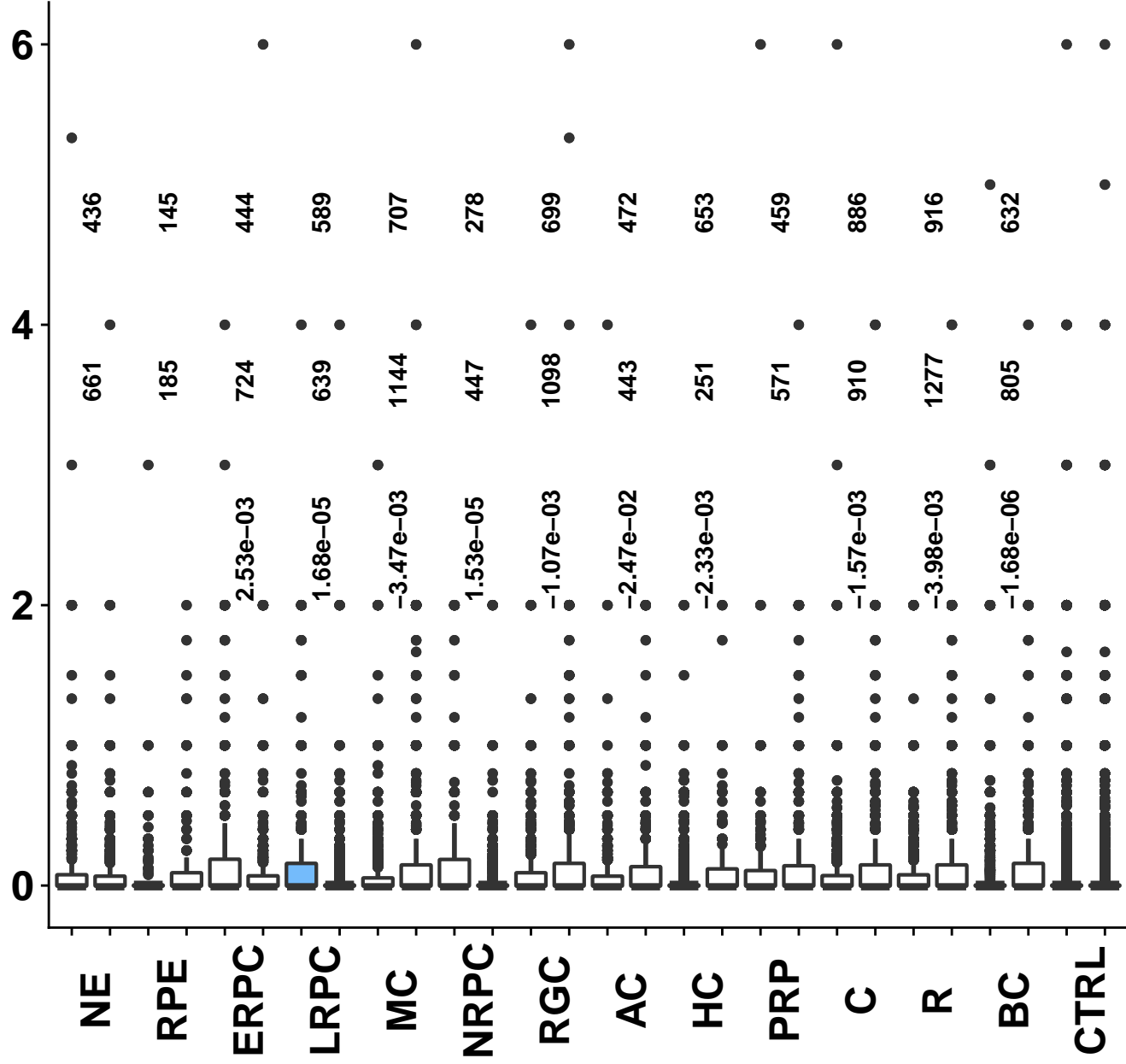


Cux1_4_mean

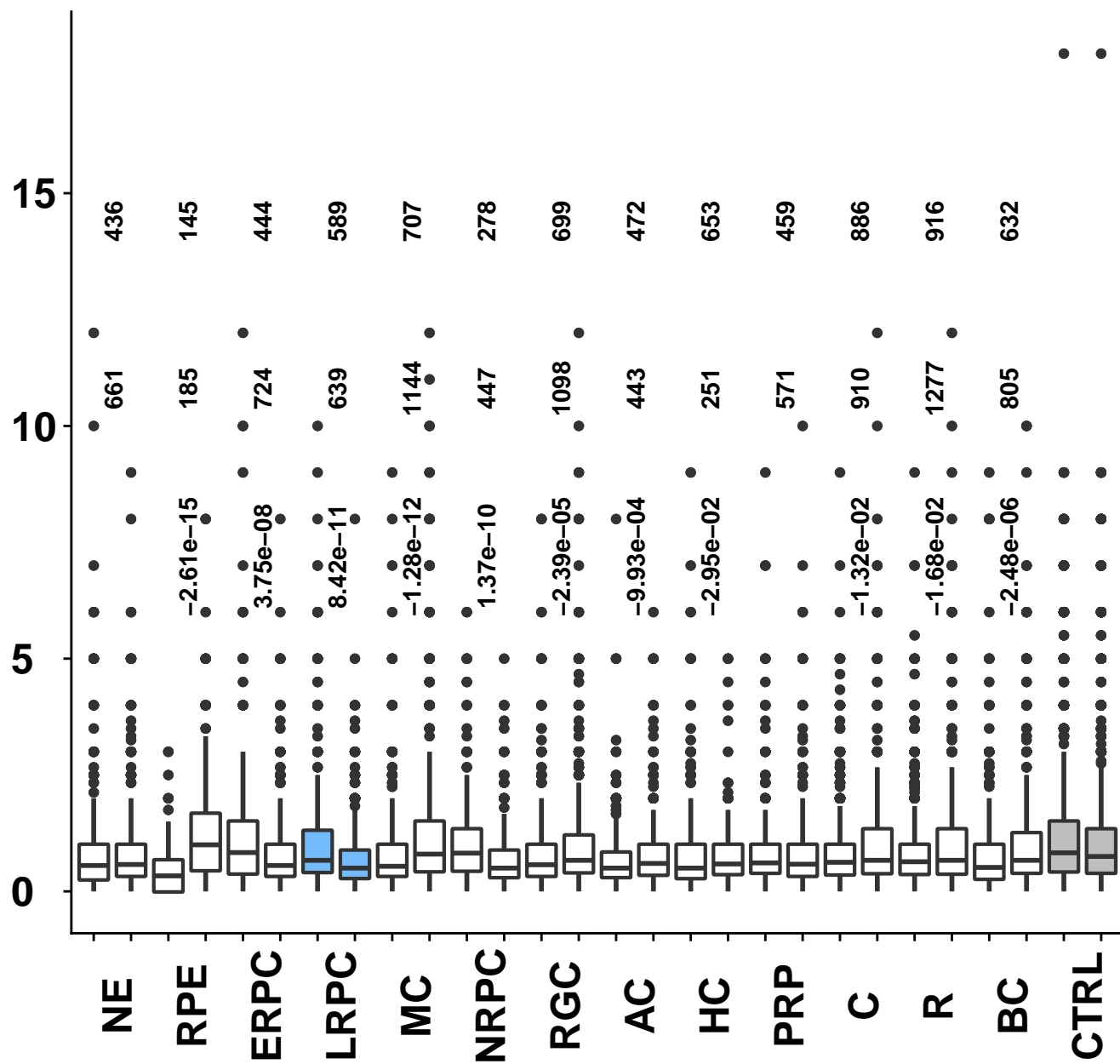




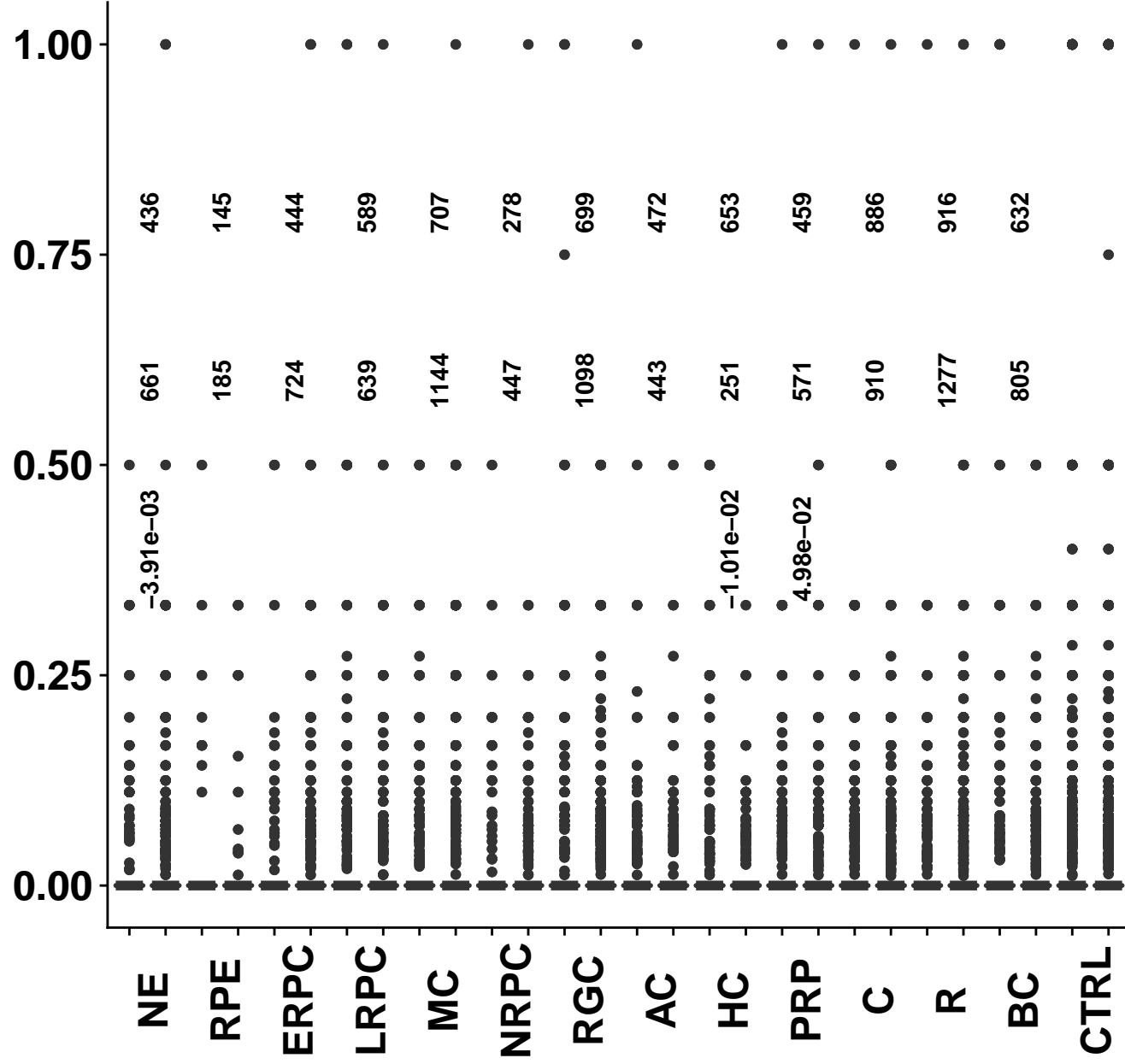
E2f1_2_mean



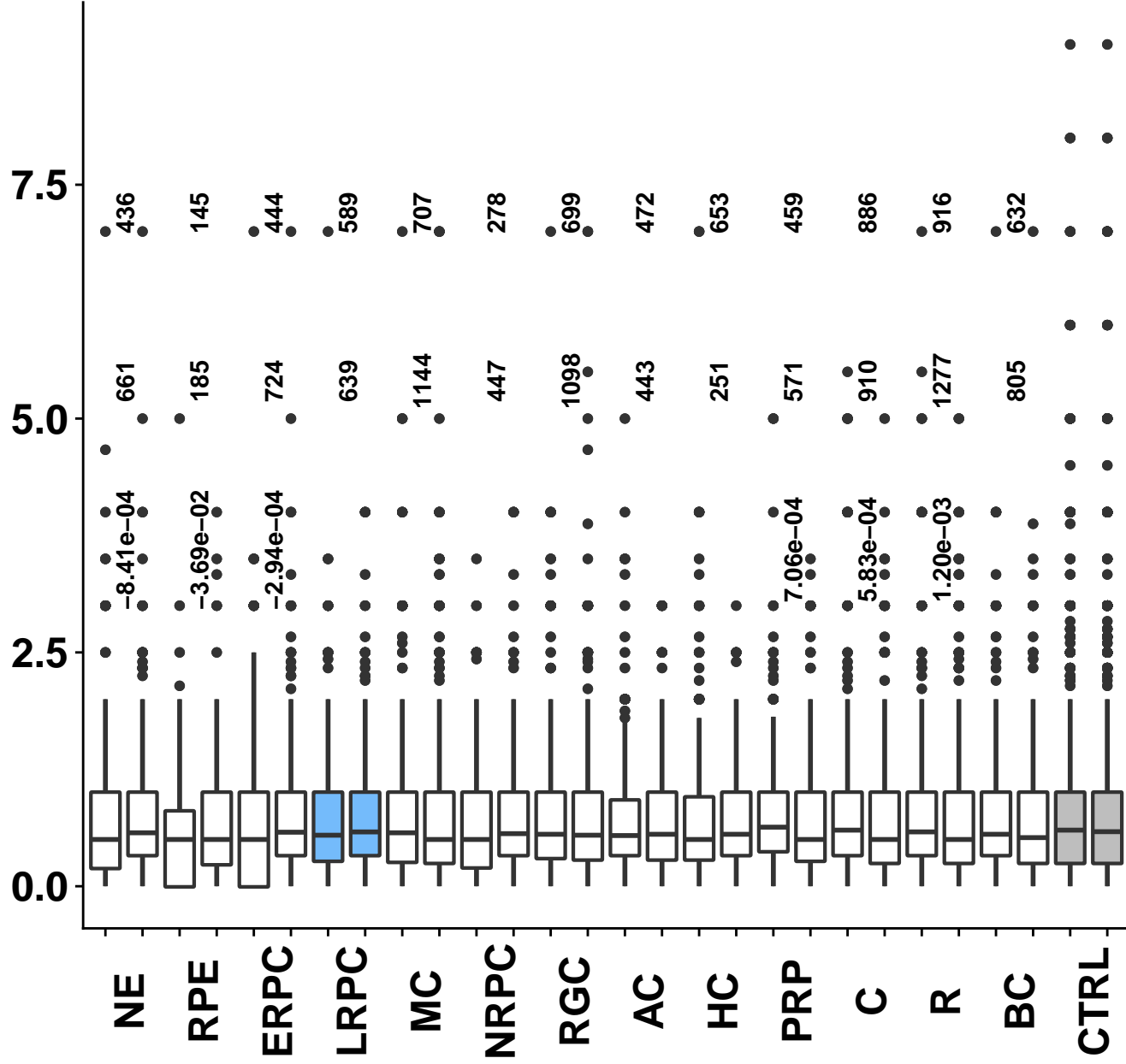
Etv5_1_mean



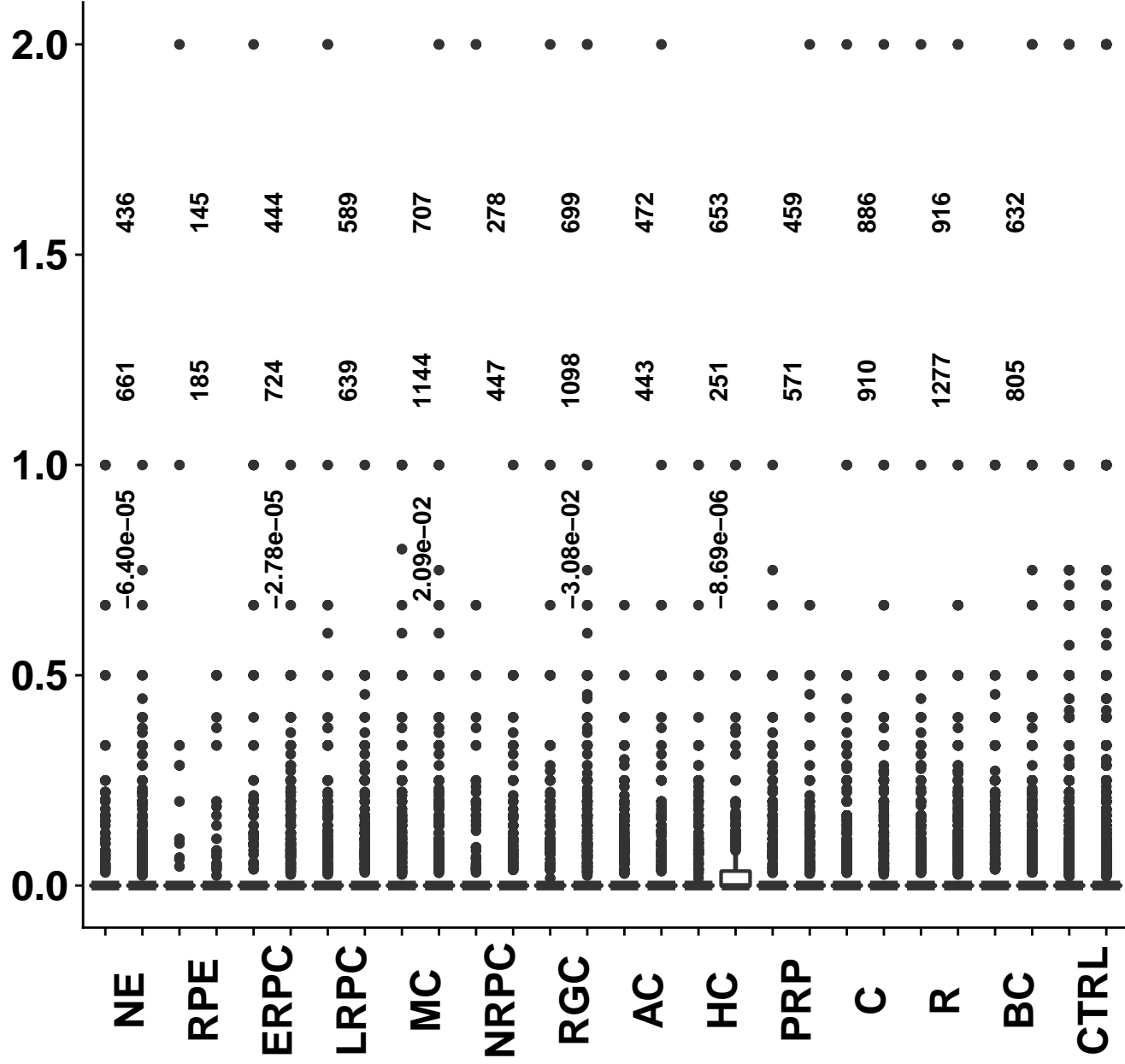
Gli3_1_mean



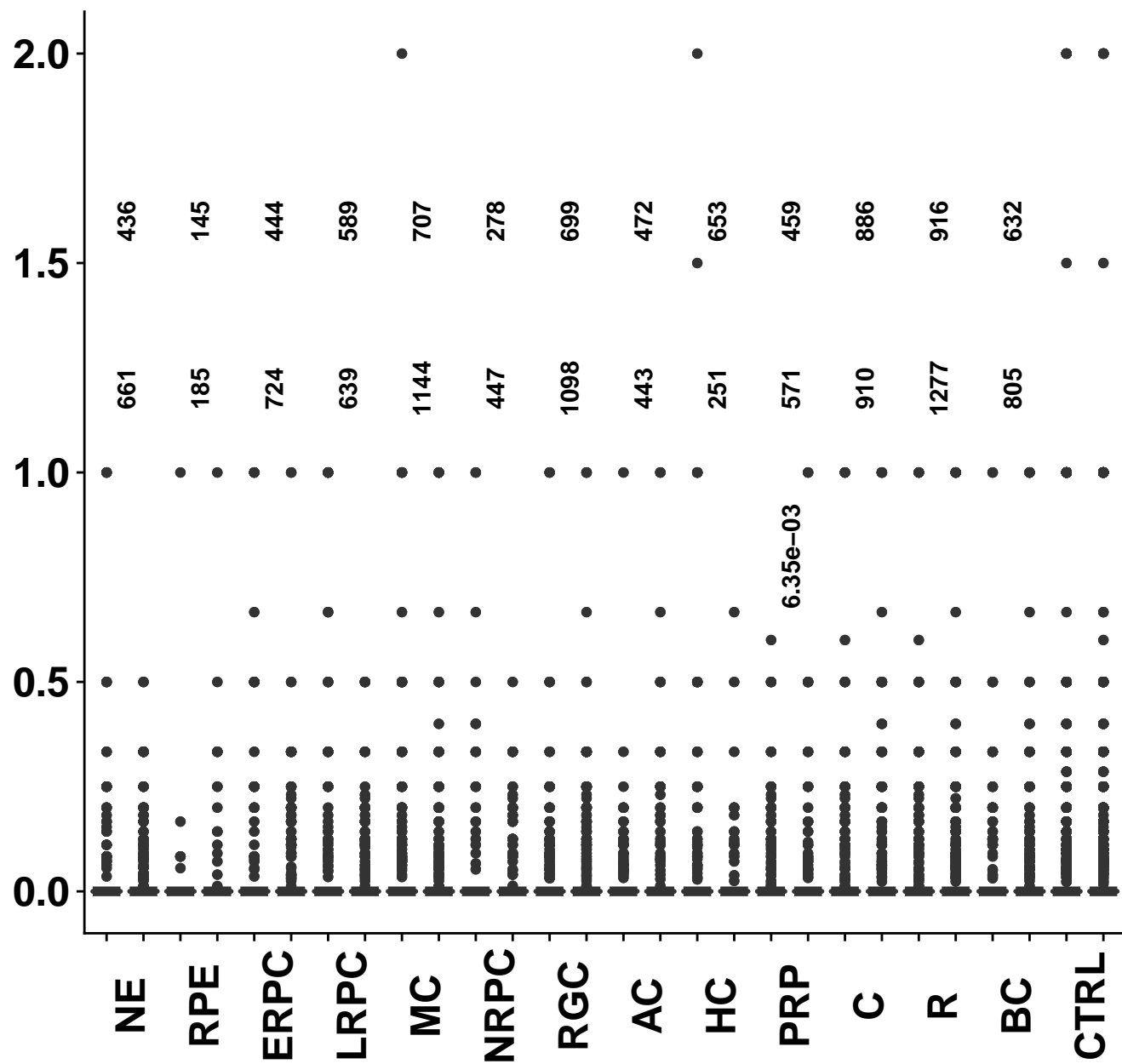
Id4_1_mean



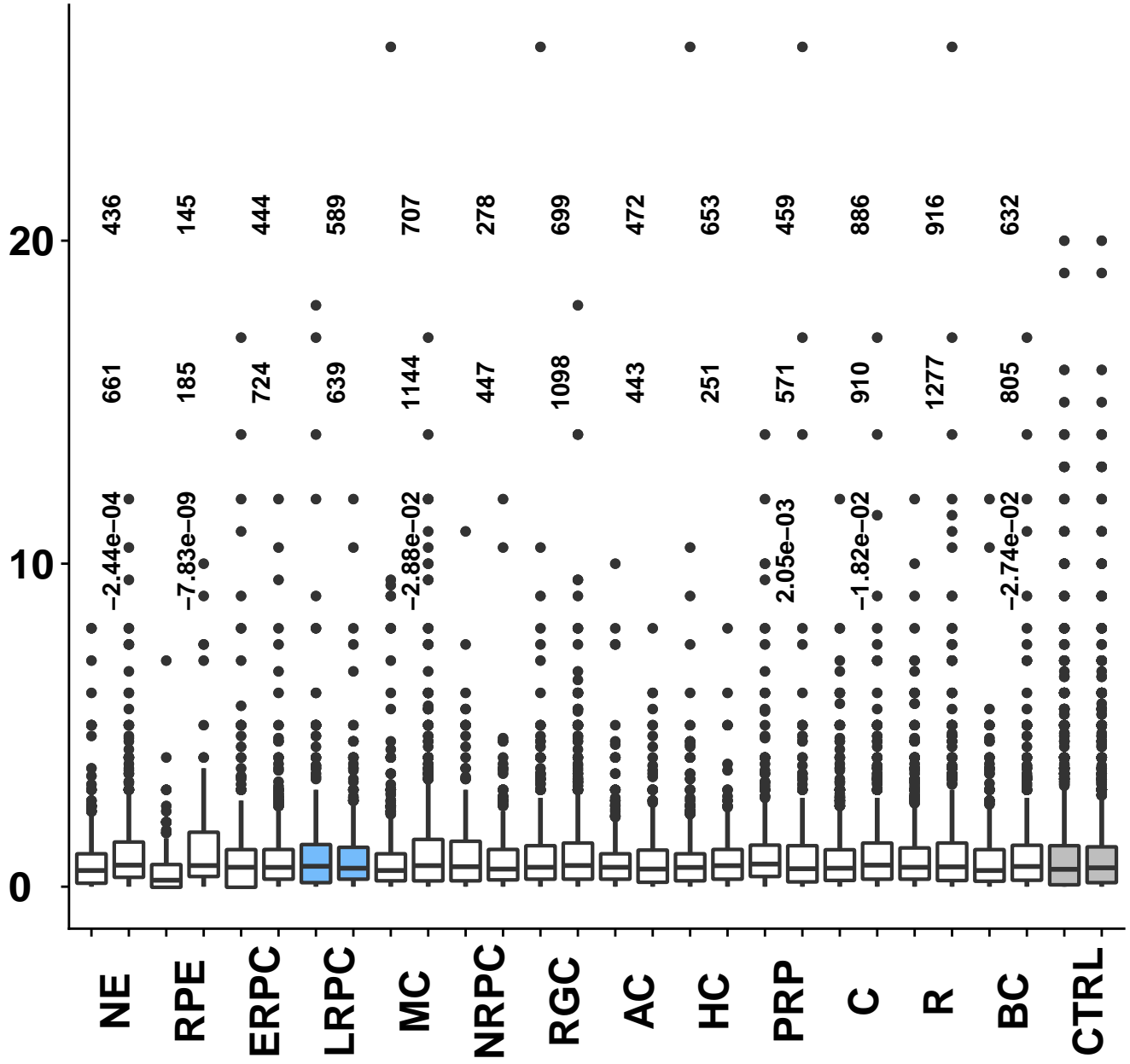
lrx5_1_mean



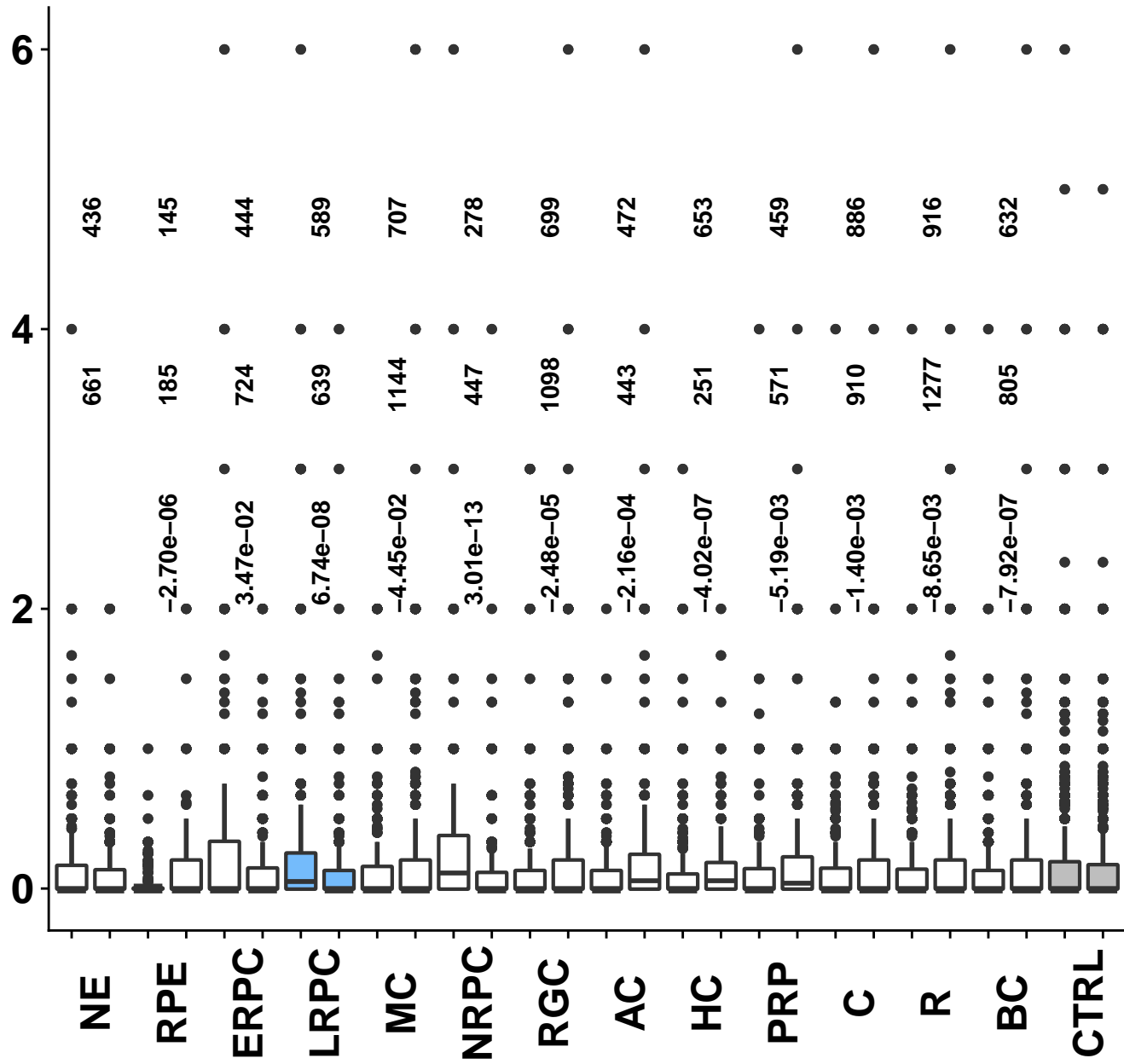
Klf13_1_mean



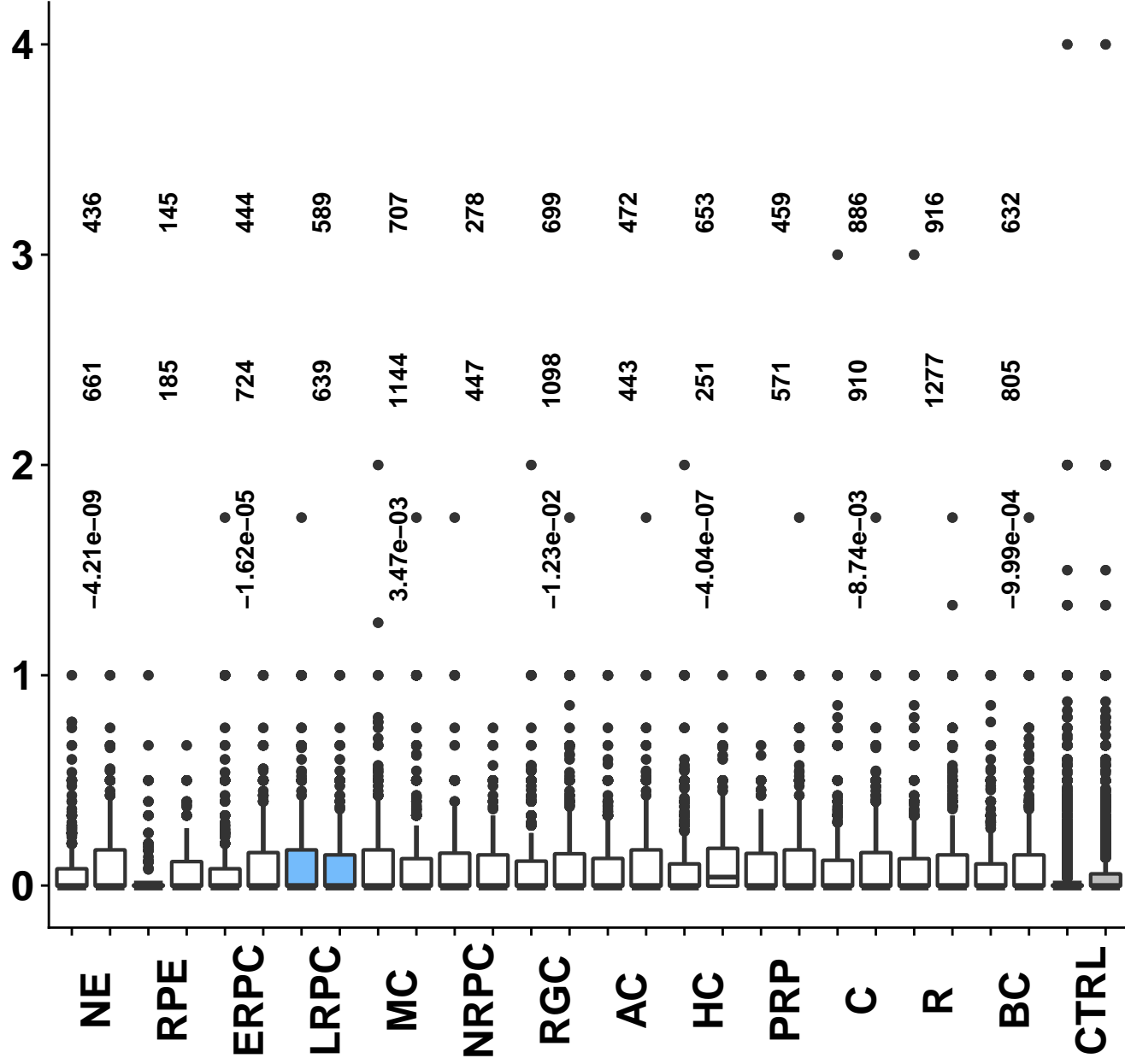
Maz_1_mean



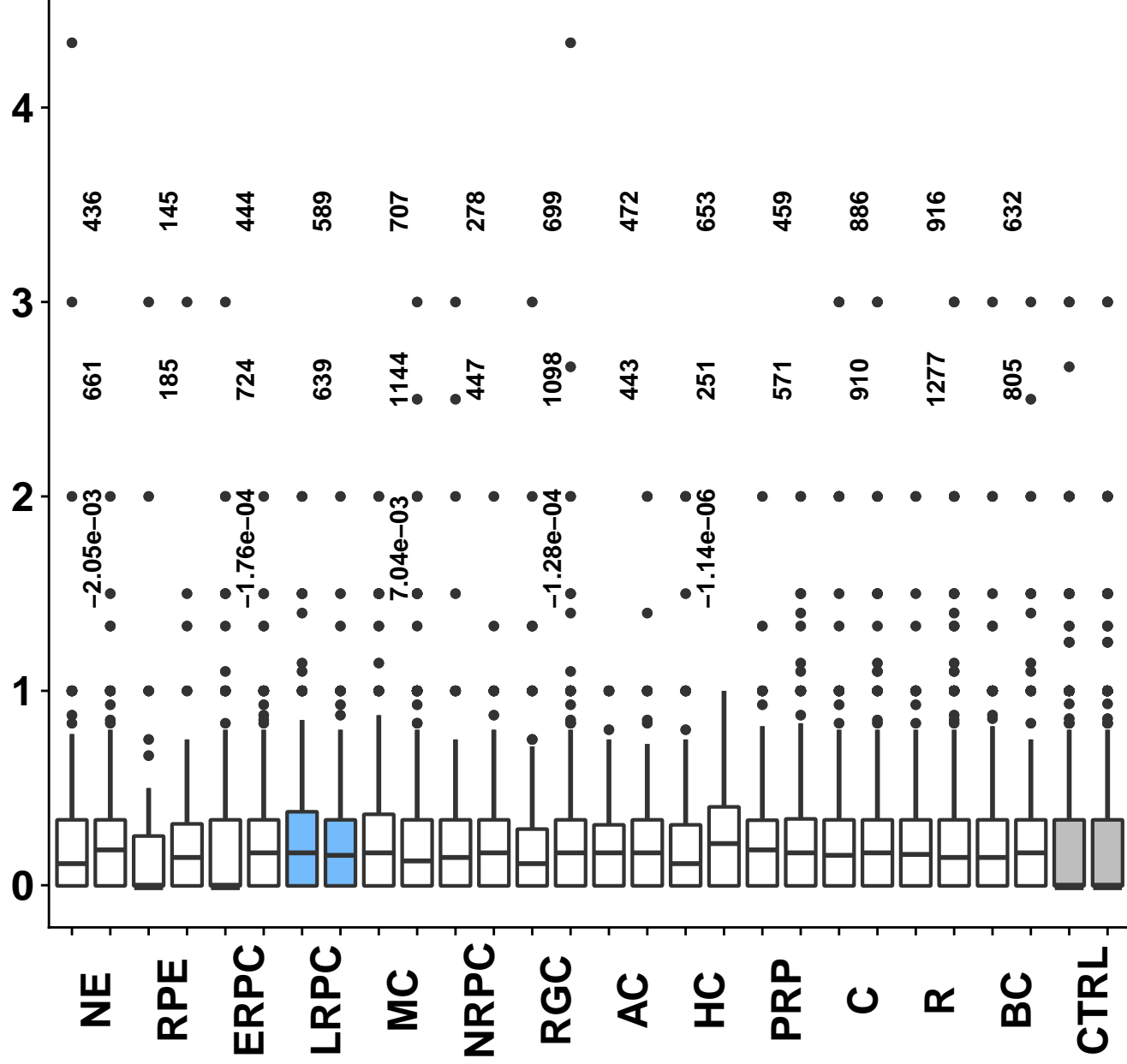
Nfyb_1_mean



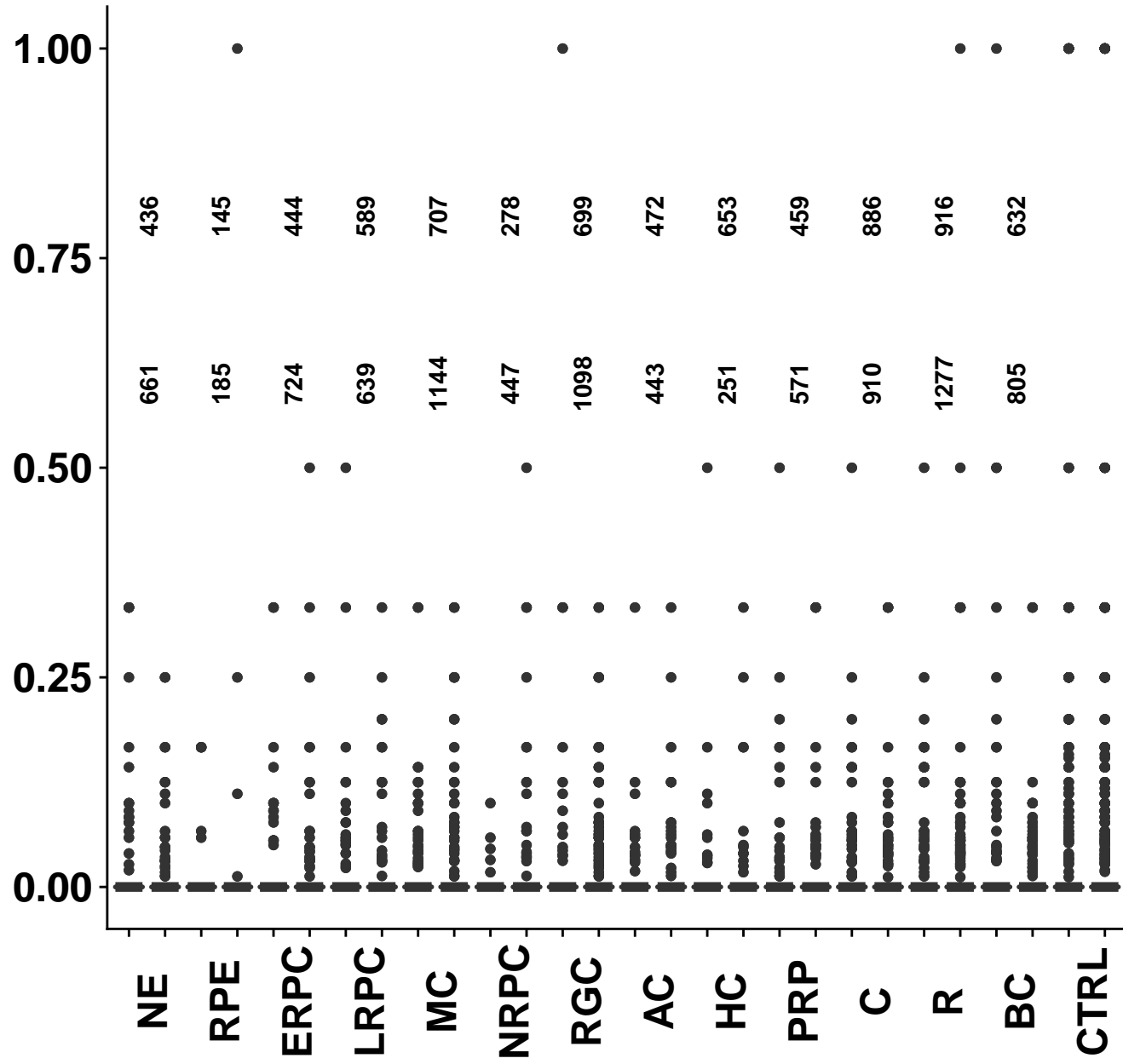
Sox8_2_mean



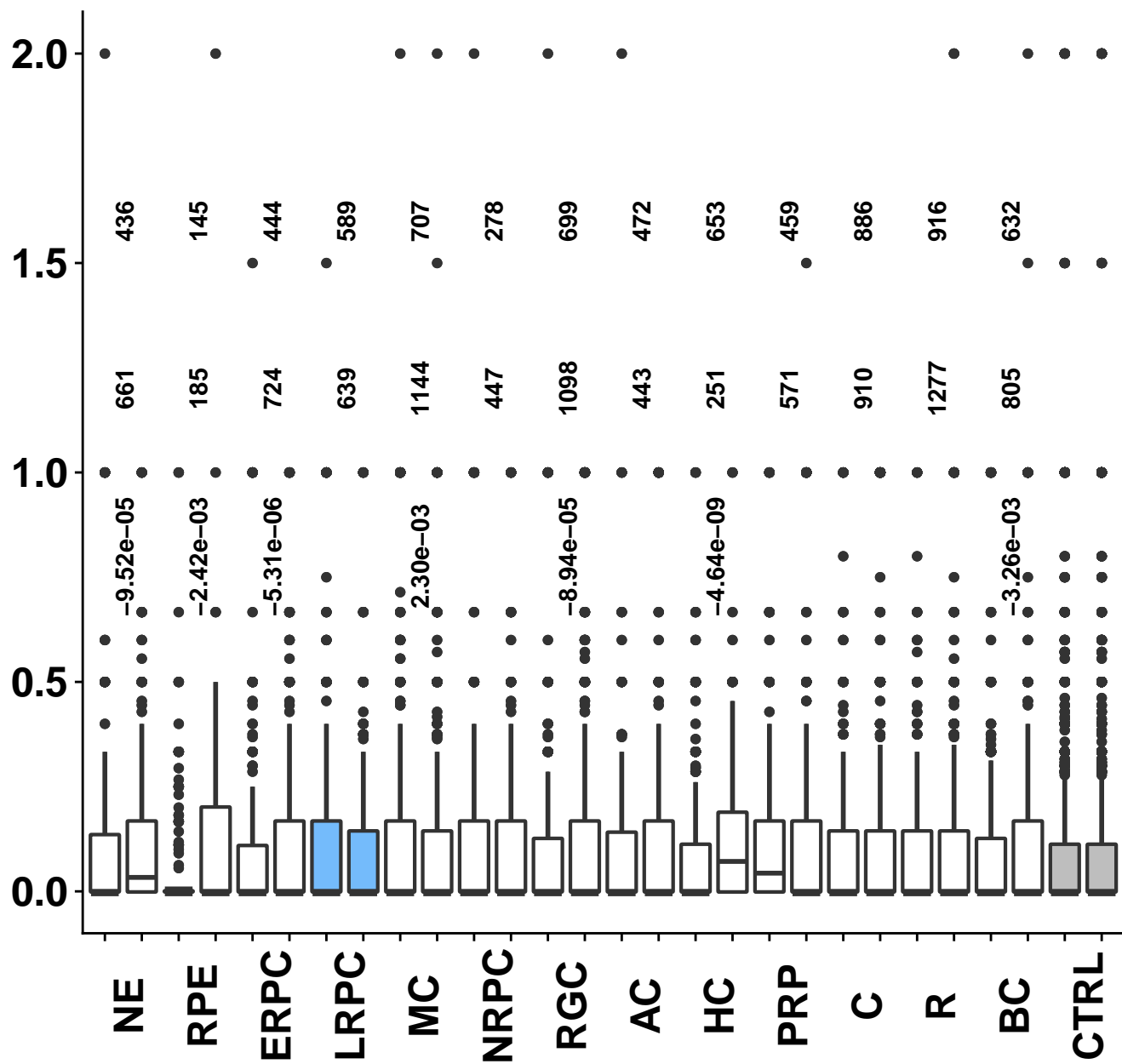
Sox8_3_mean



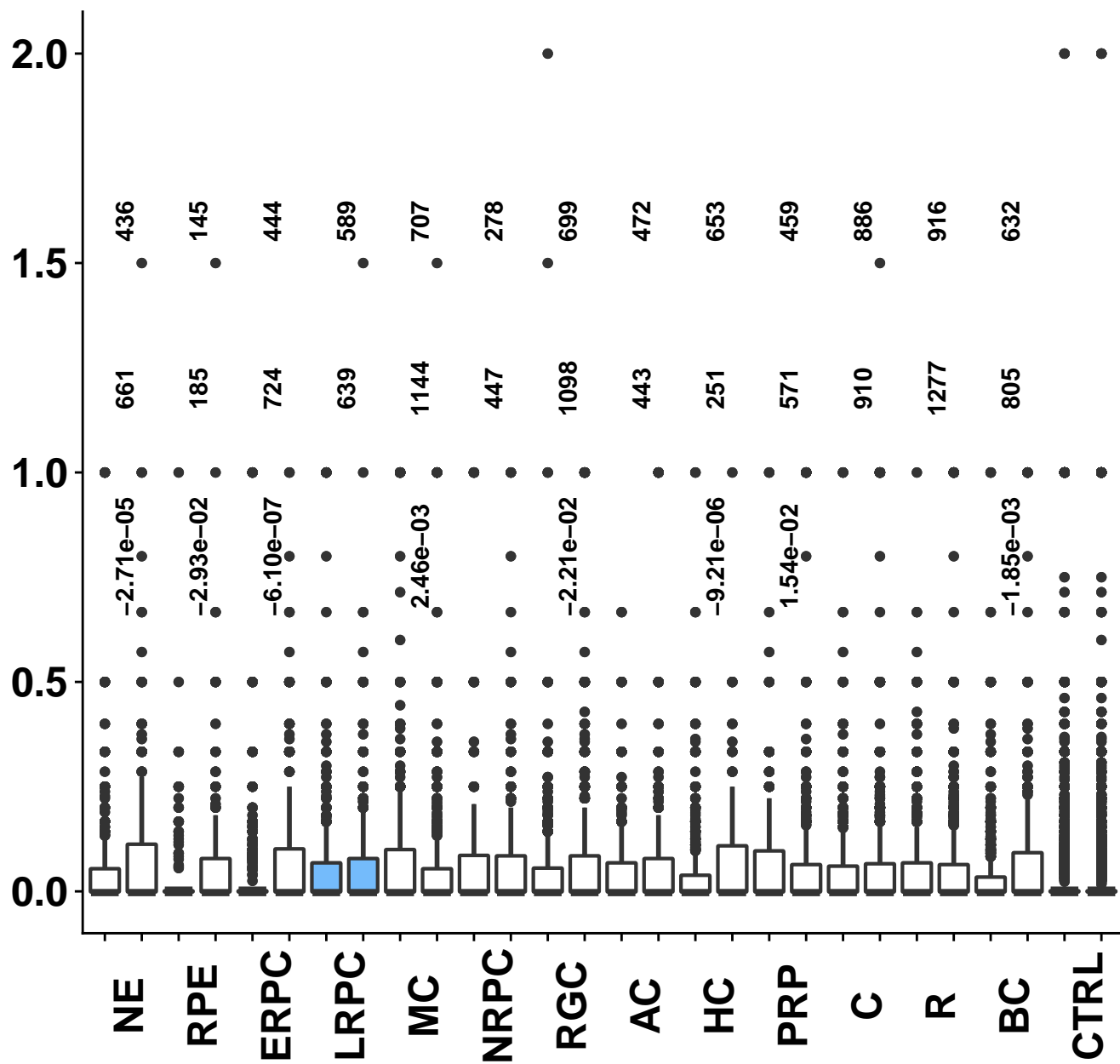
Tcf7l2_1_mean



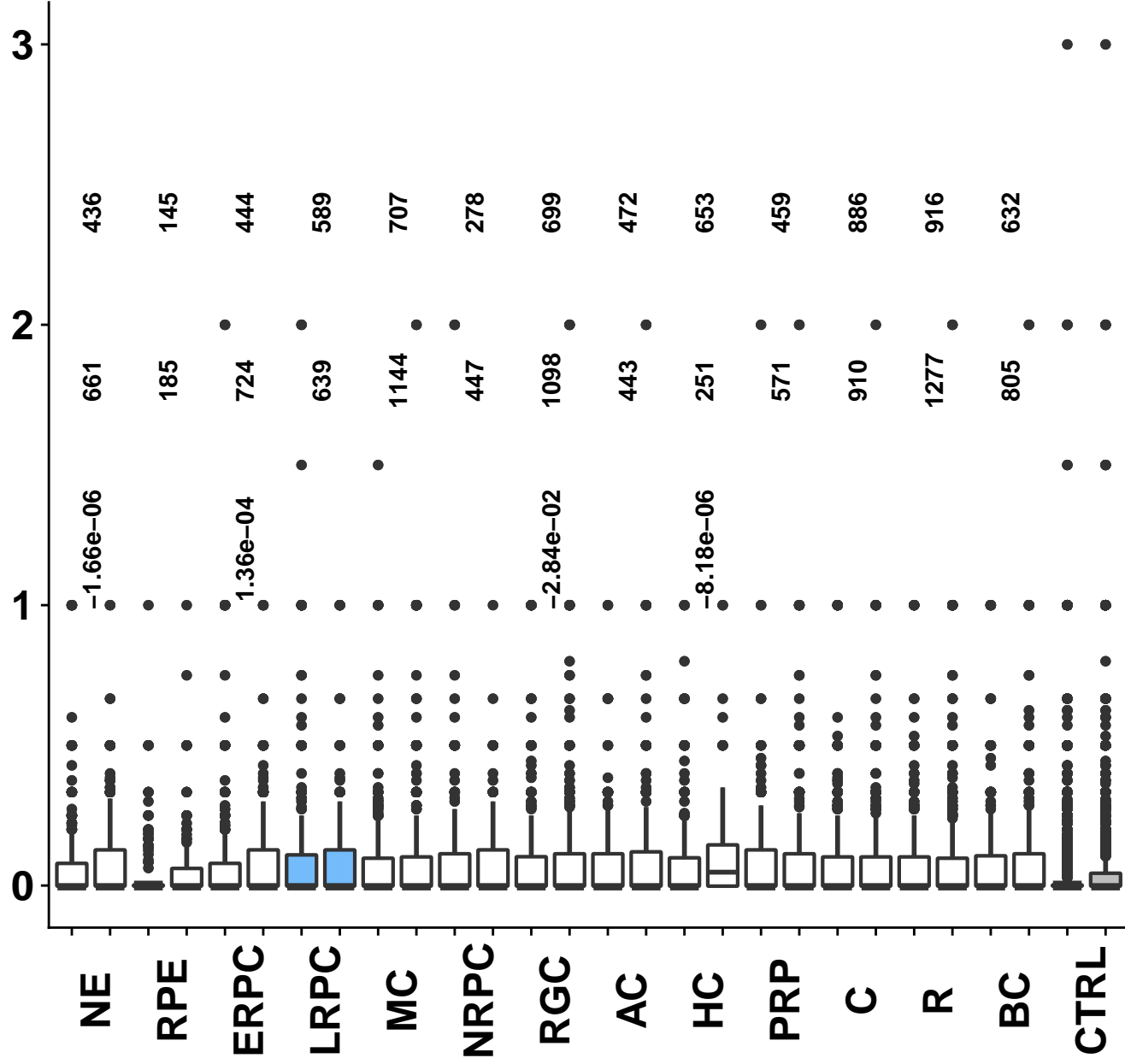
Tcf7l2_2_mean



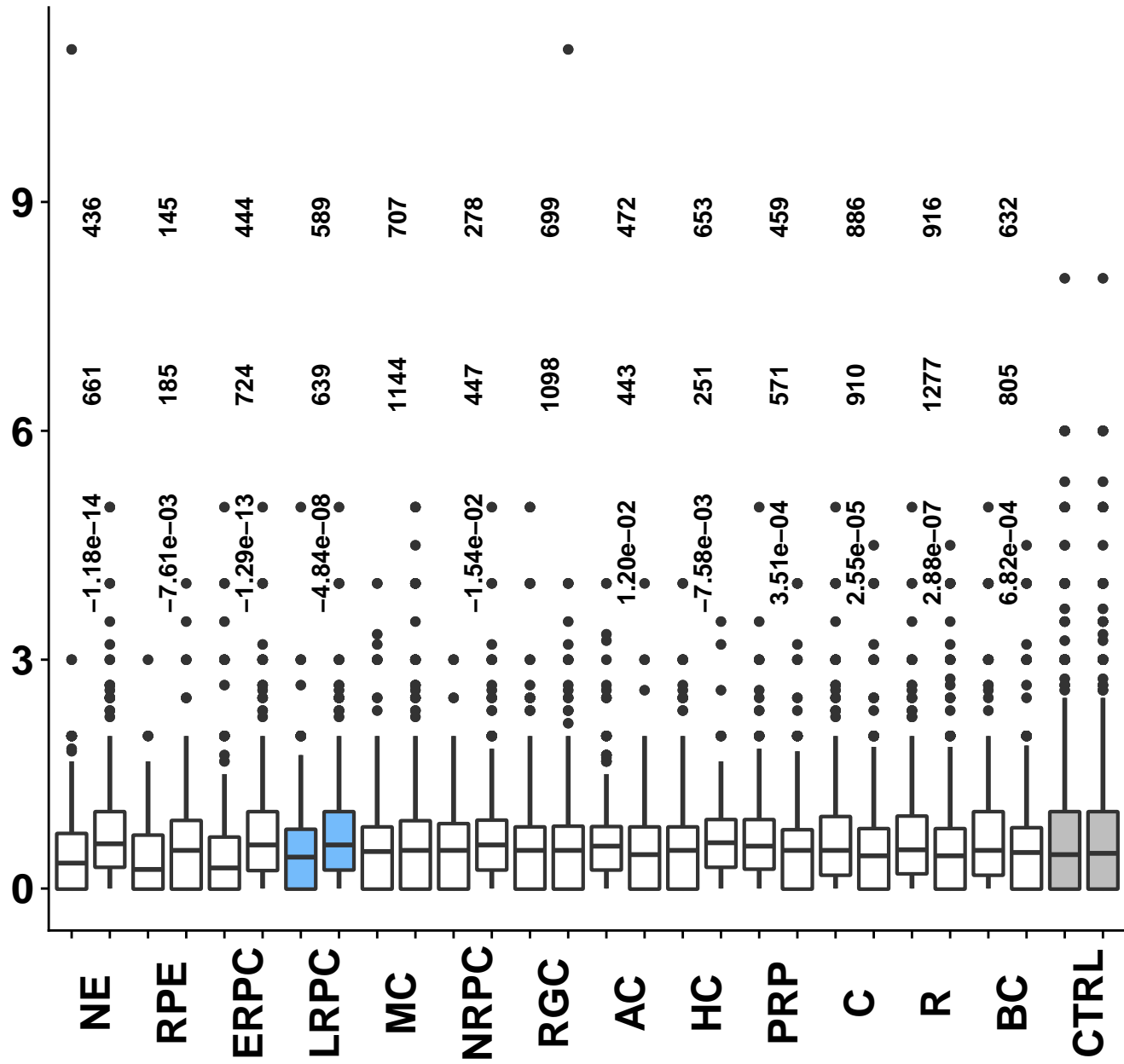
Tcf7l2_3_mean



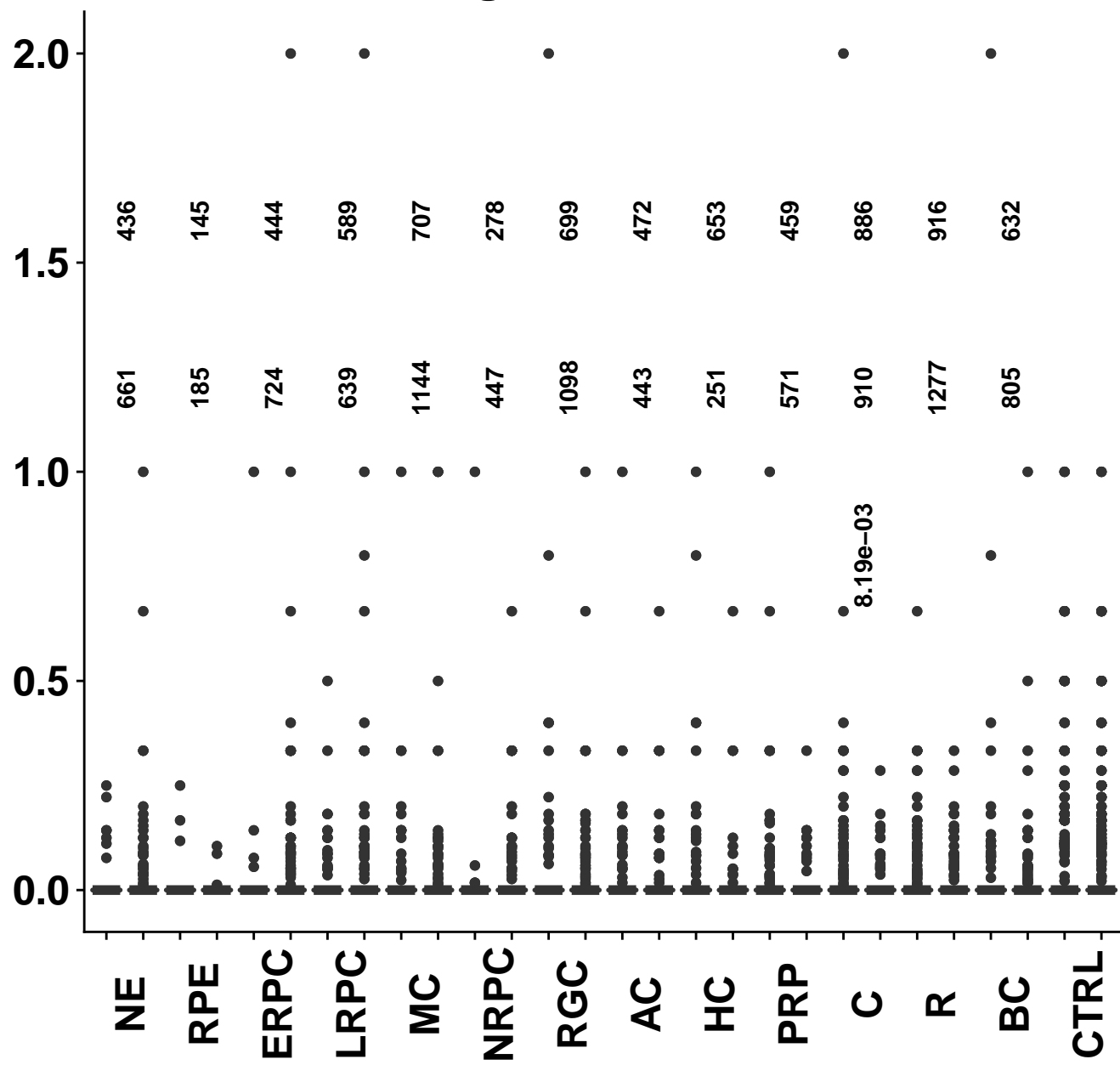
Tcf7l2_4_mean



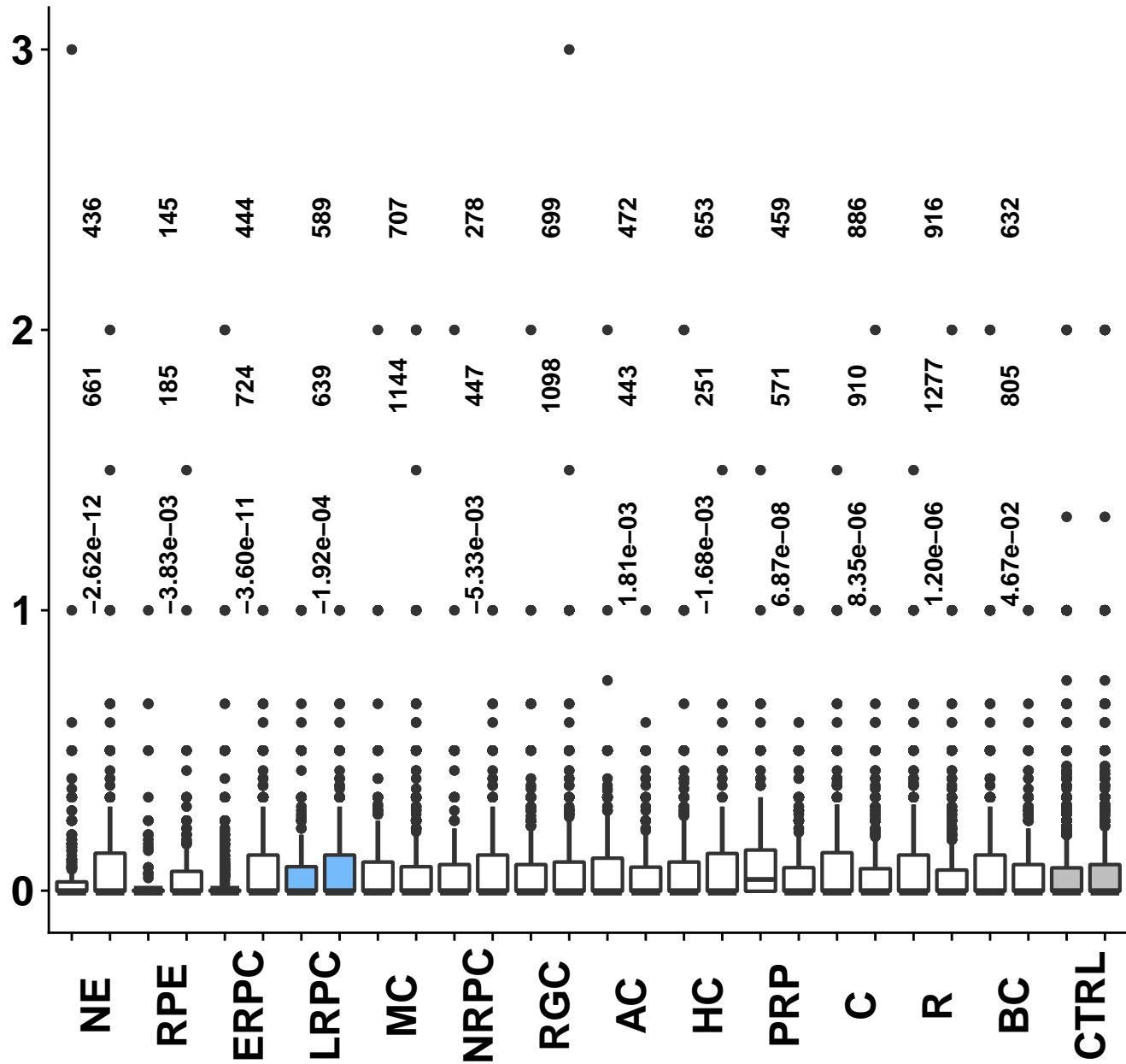
Tgif1_1_mean



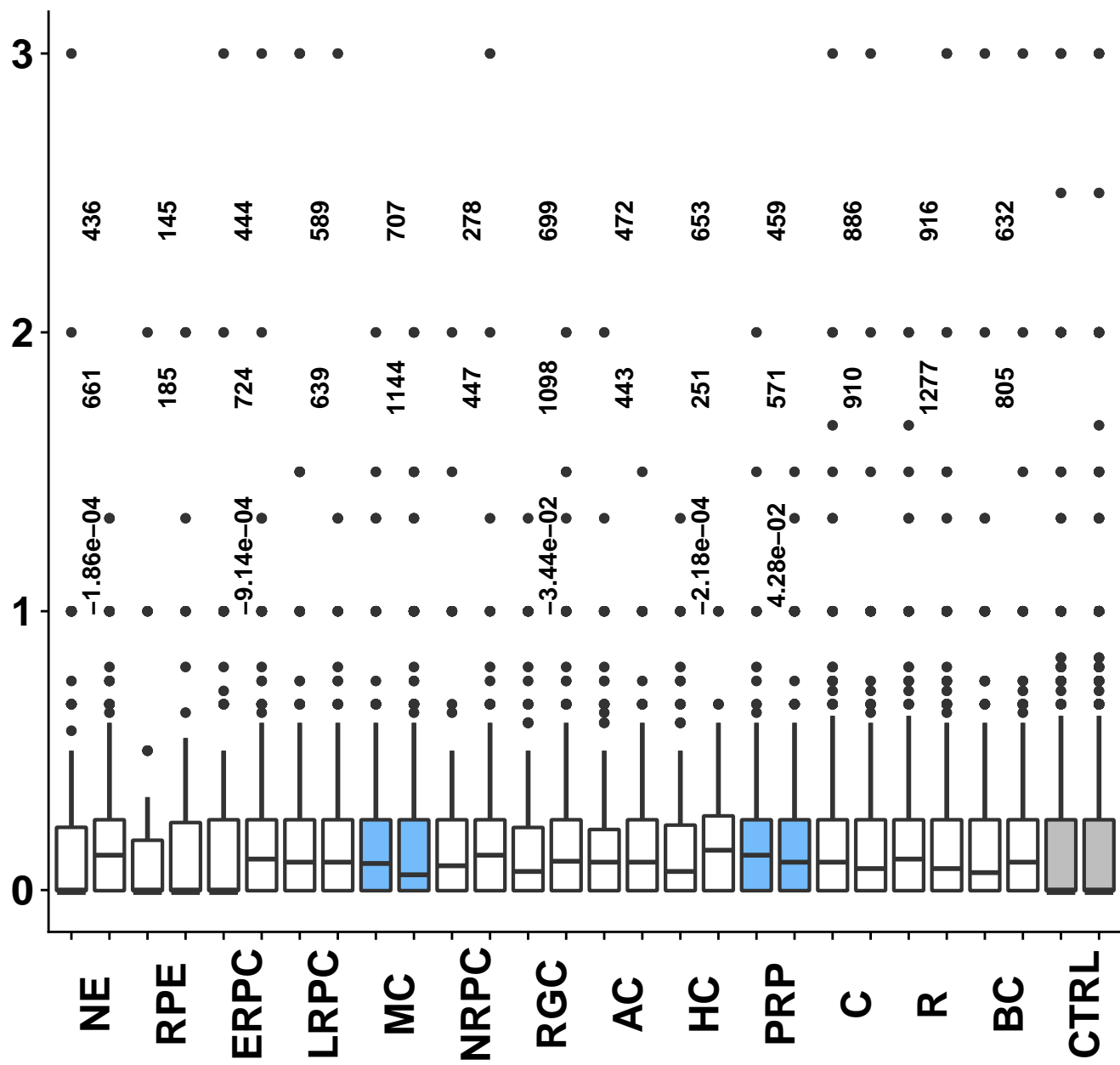
Tgif1_2_mean



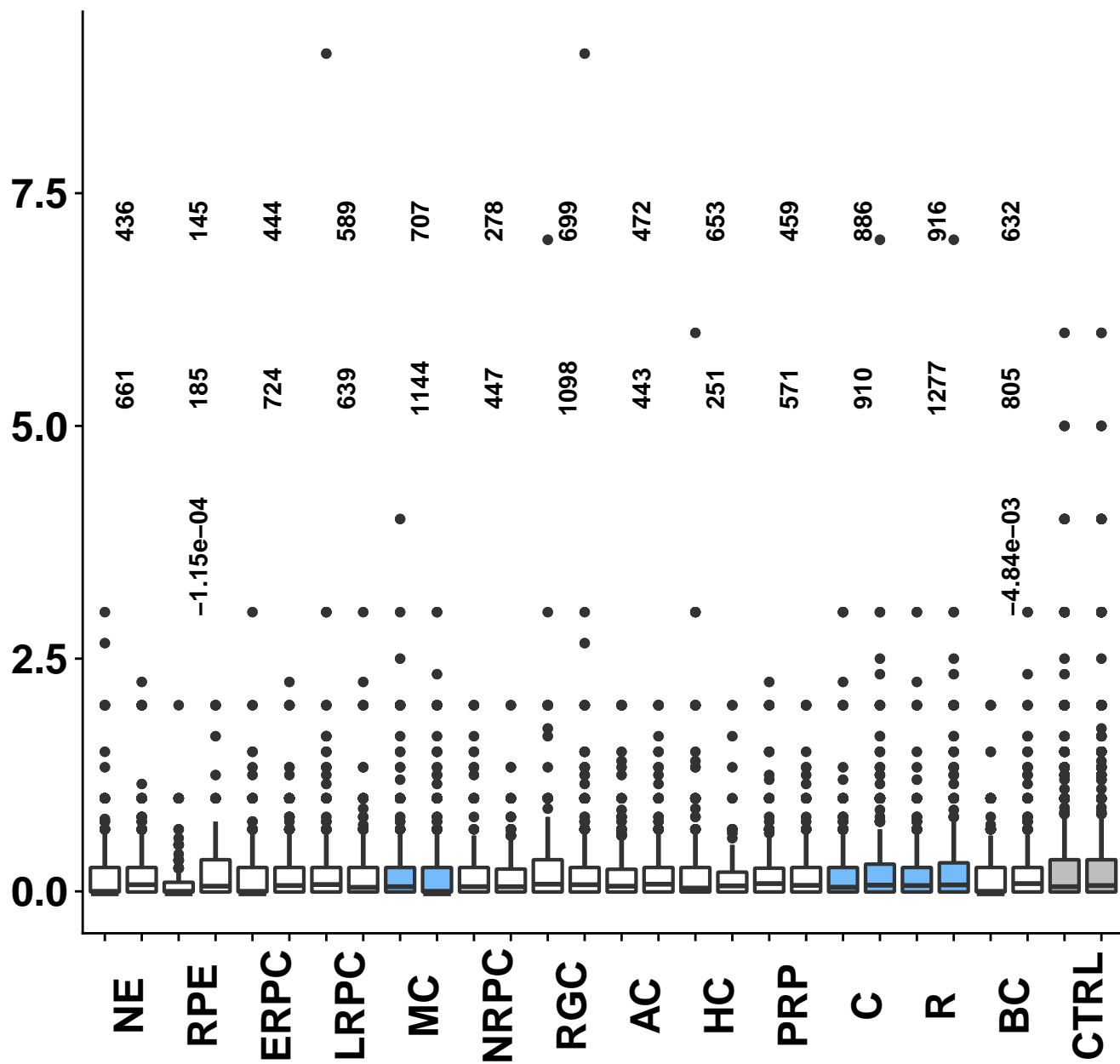
Tgif1_3_mean



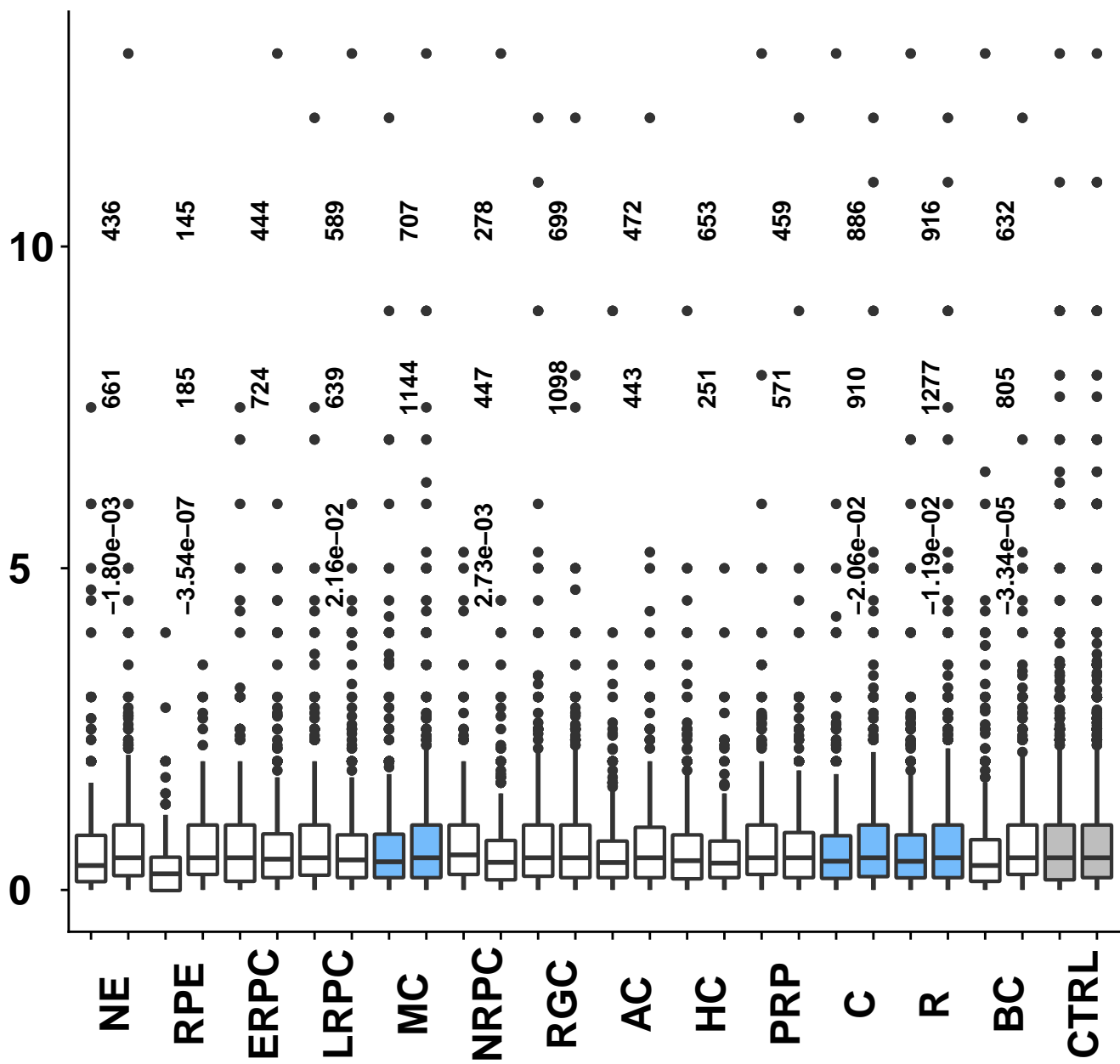
Ddit3_1_mean



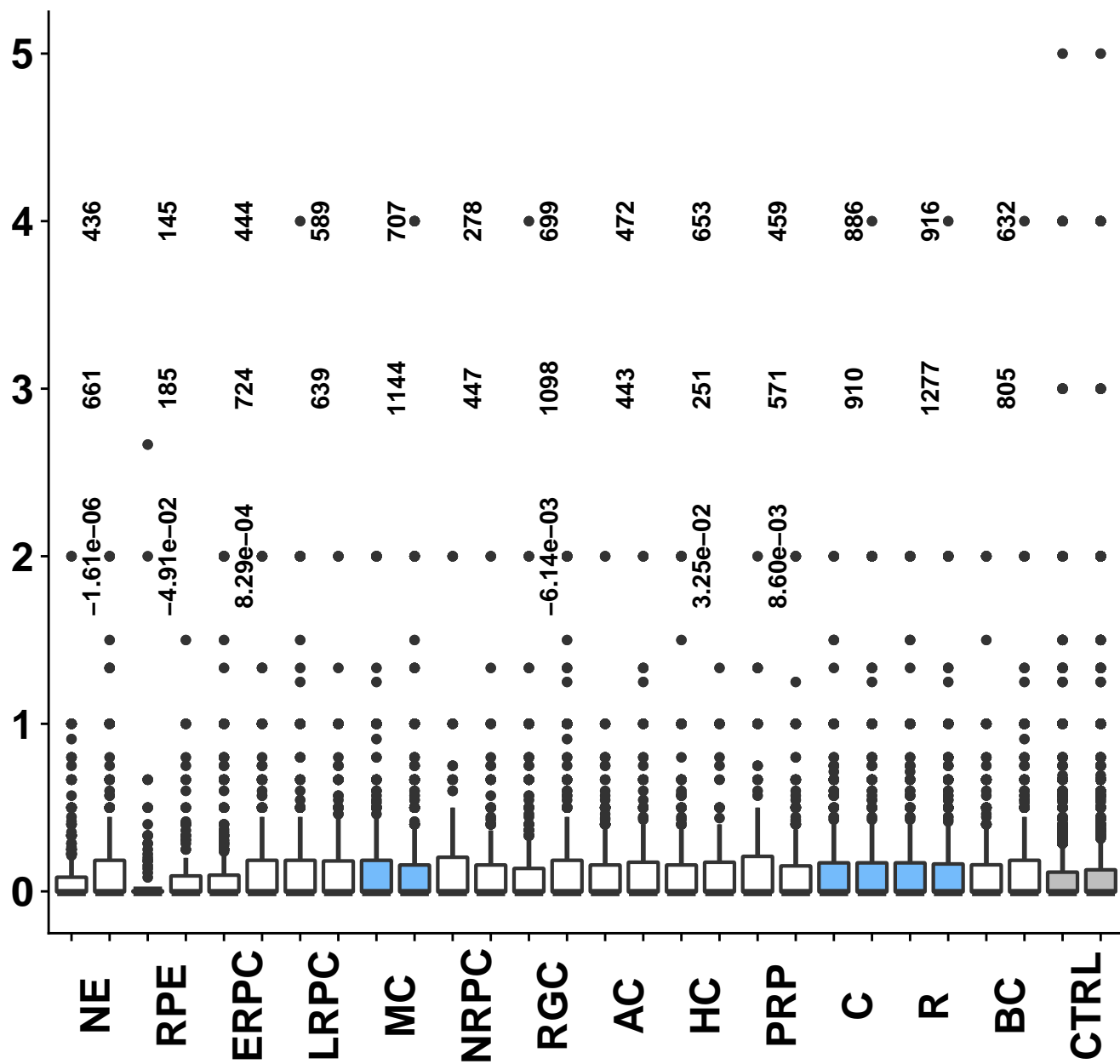
Klf9_1_mean



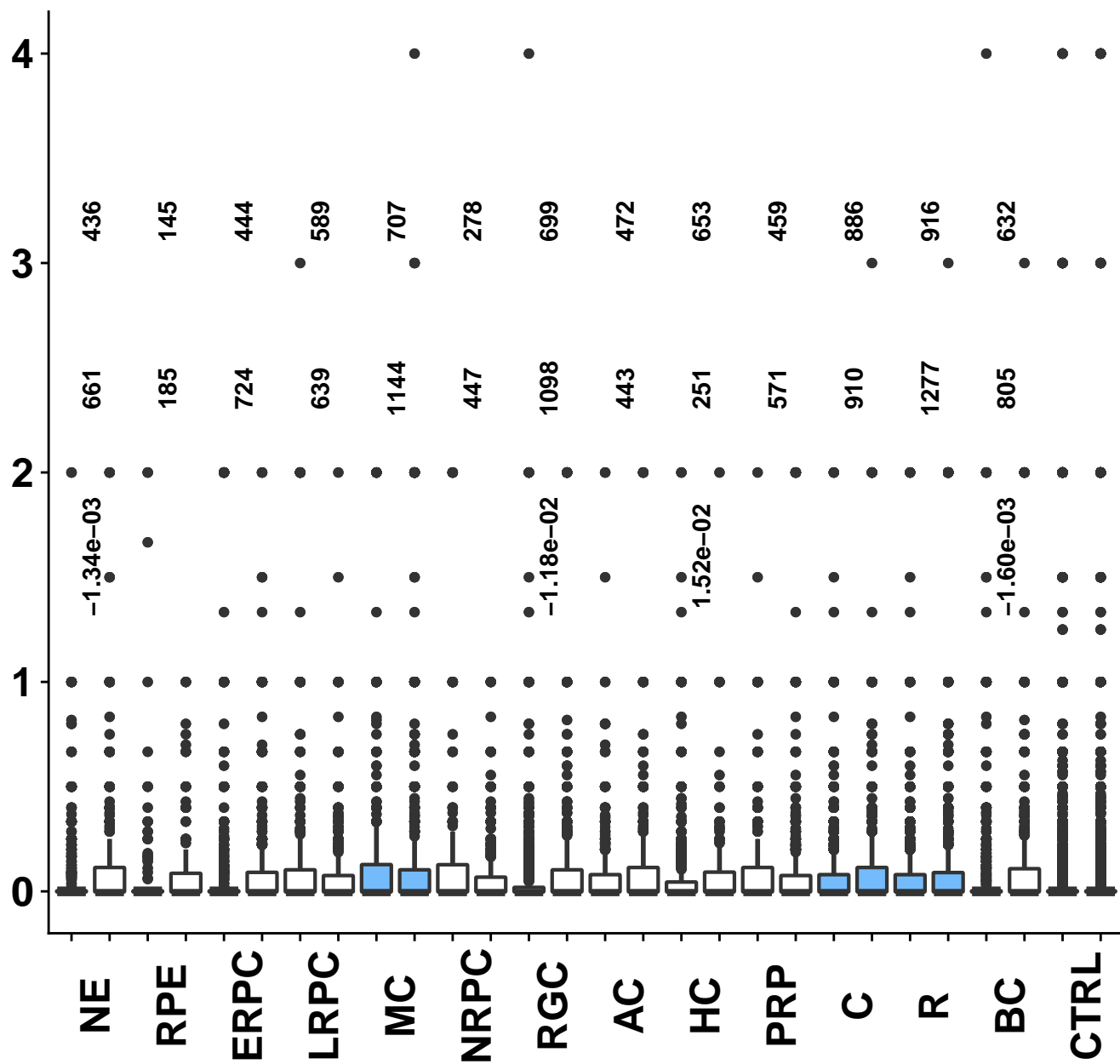
Klf9_2_mean



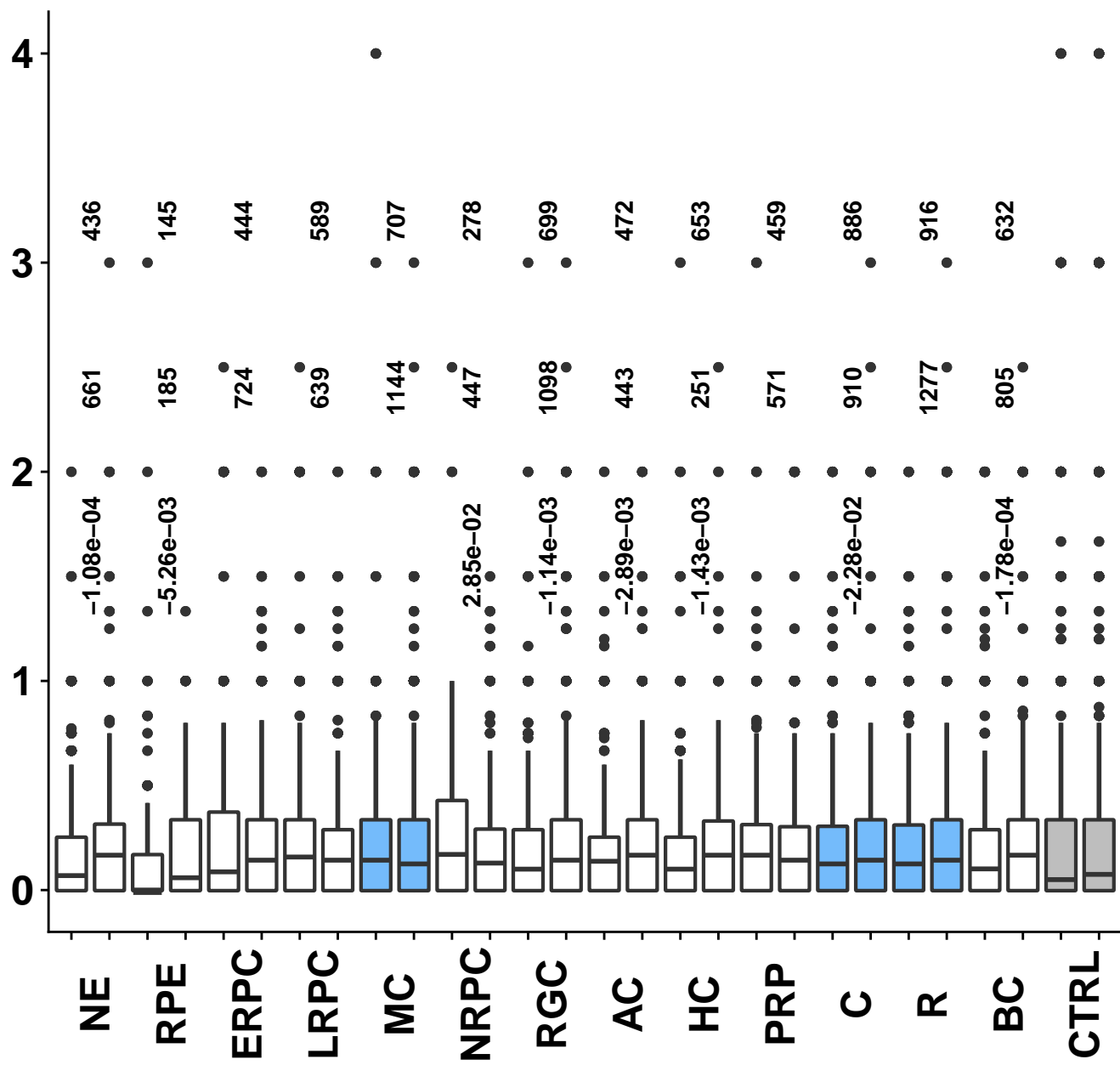
Stat3_1_mean



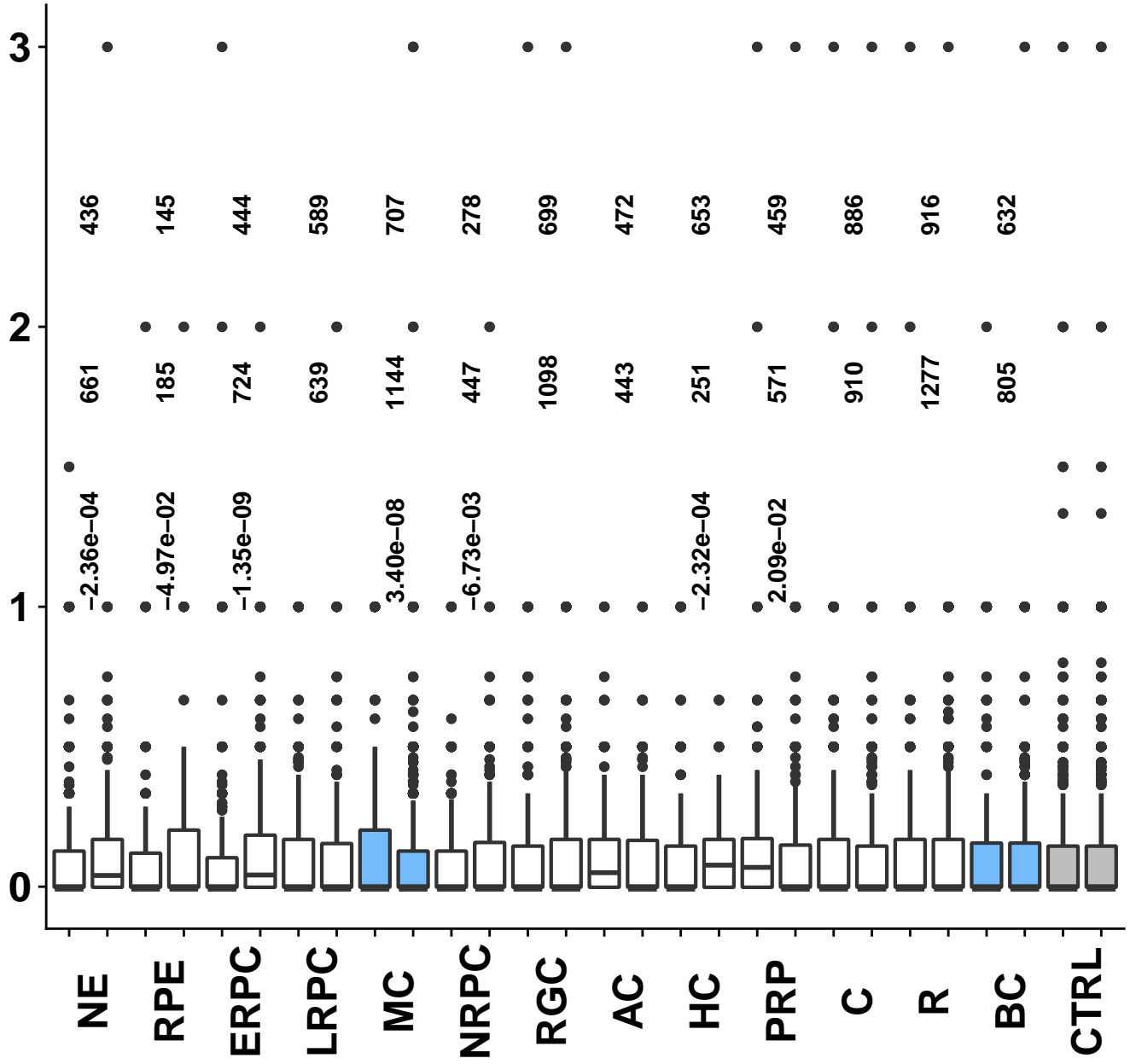
Stat3_2_mean



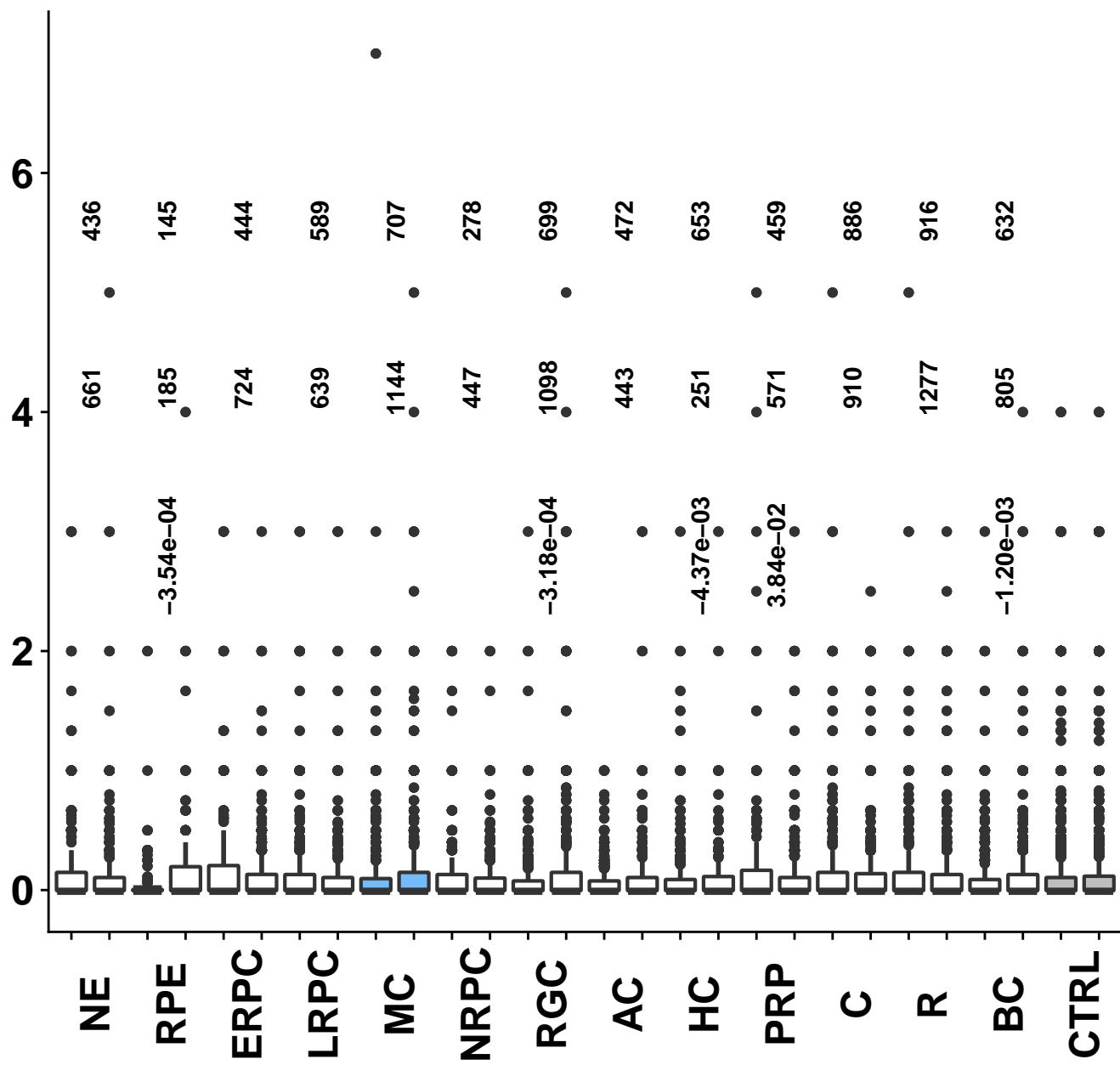
Stat3_3_mean



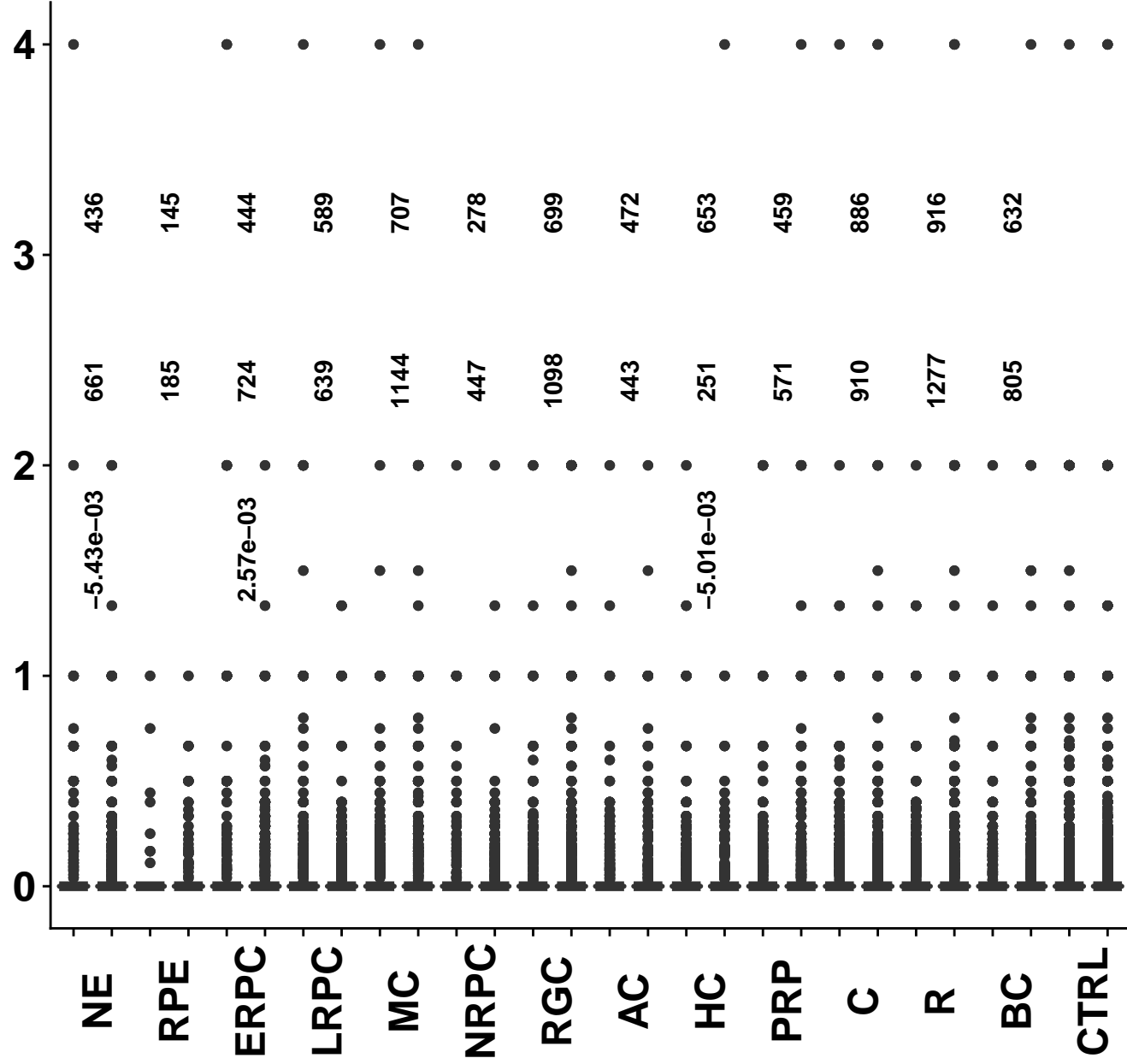
Nfia_1_mean



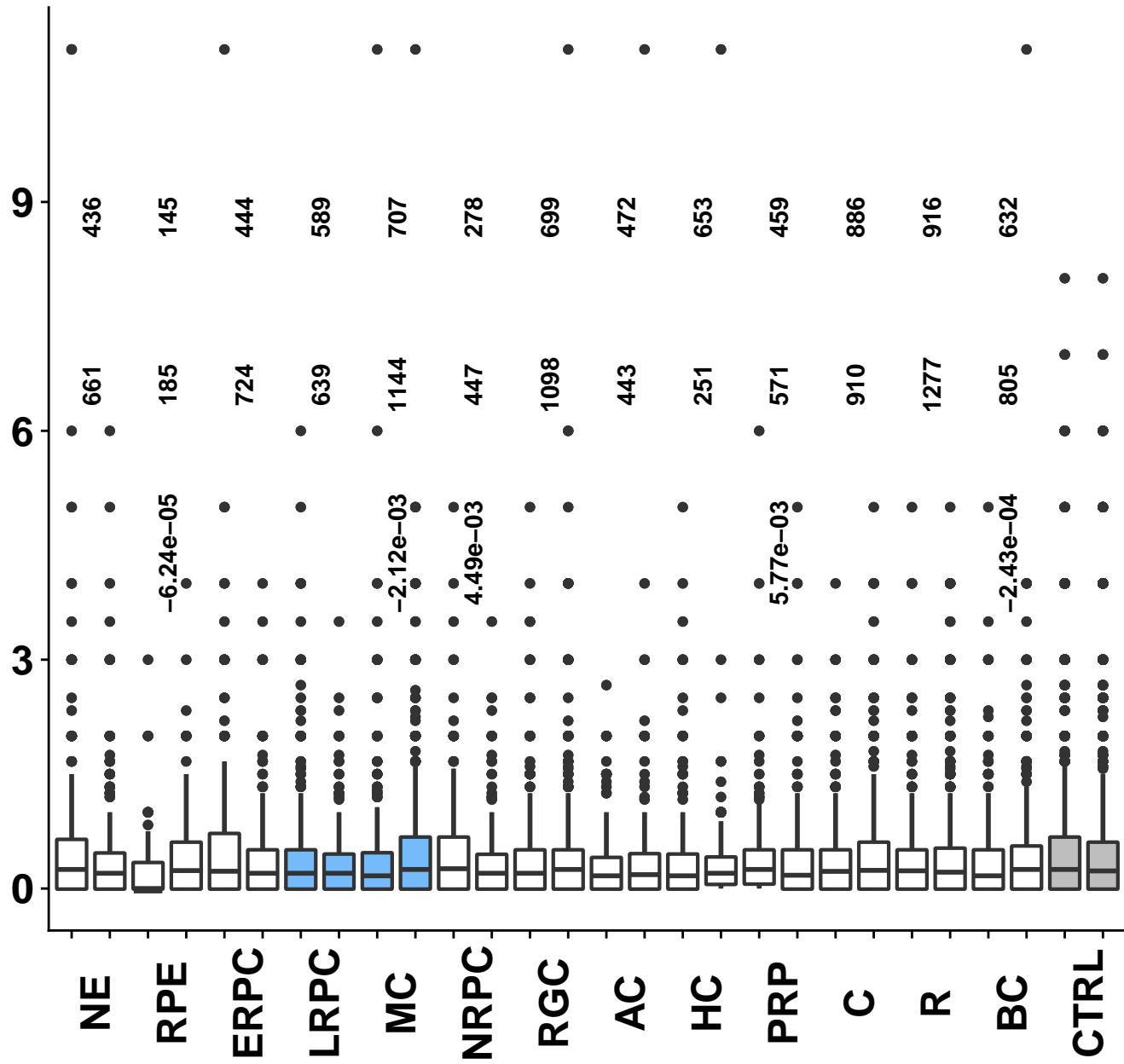
Creb3l2_1_mean



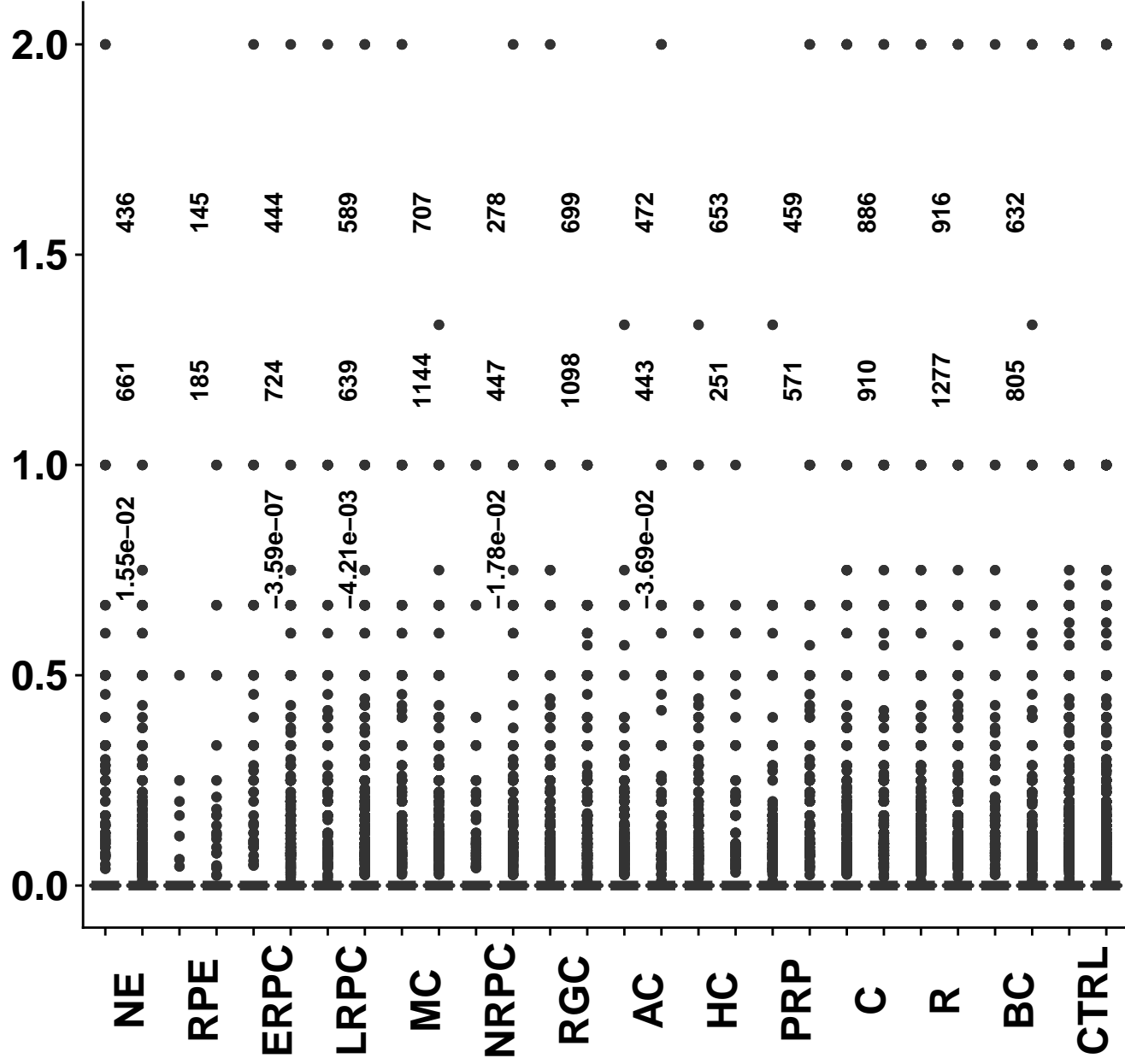
Dbp_1_mean



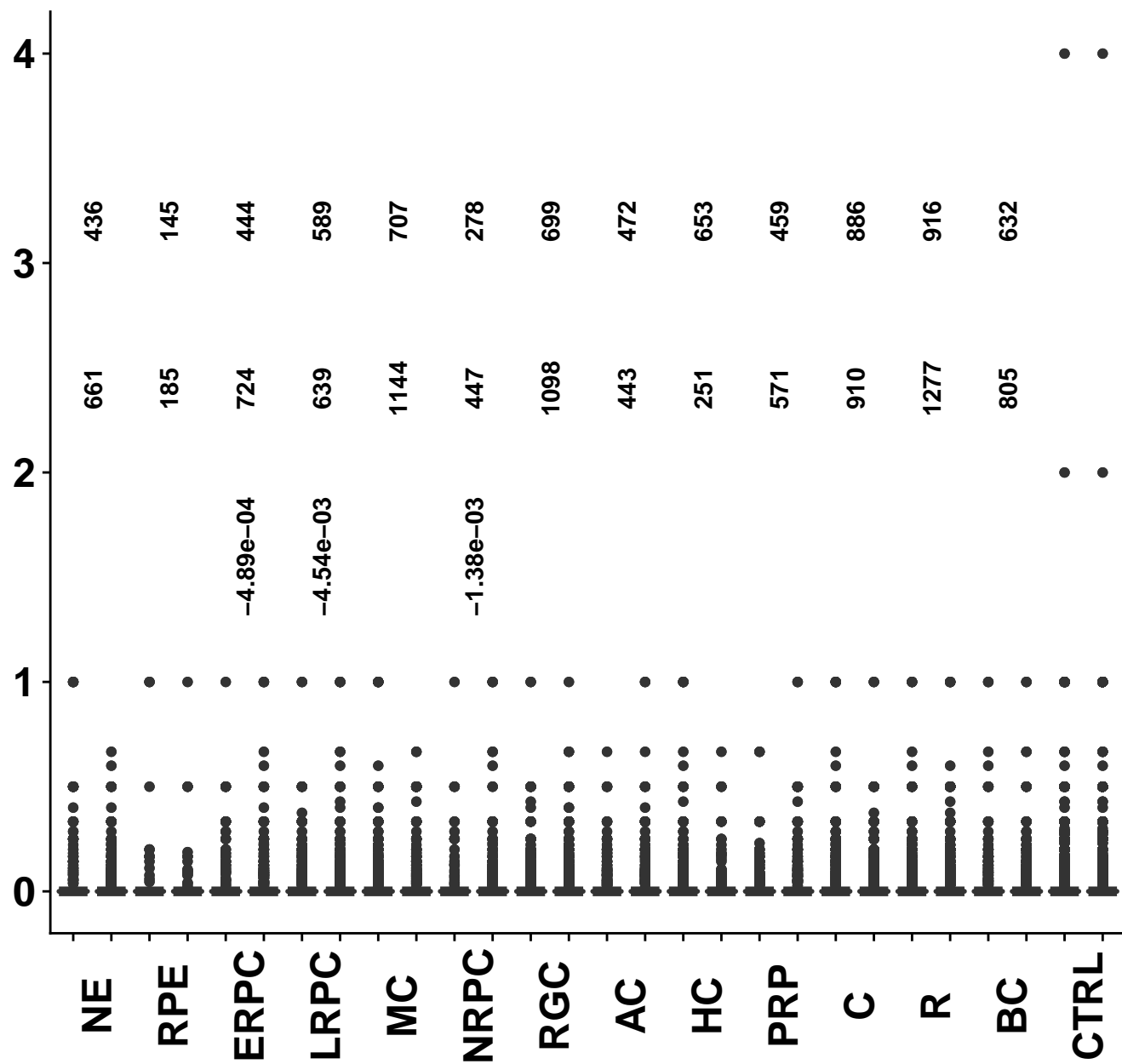
Hey2_1_mean



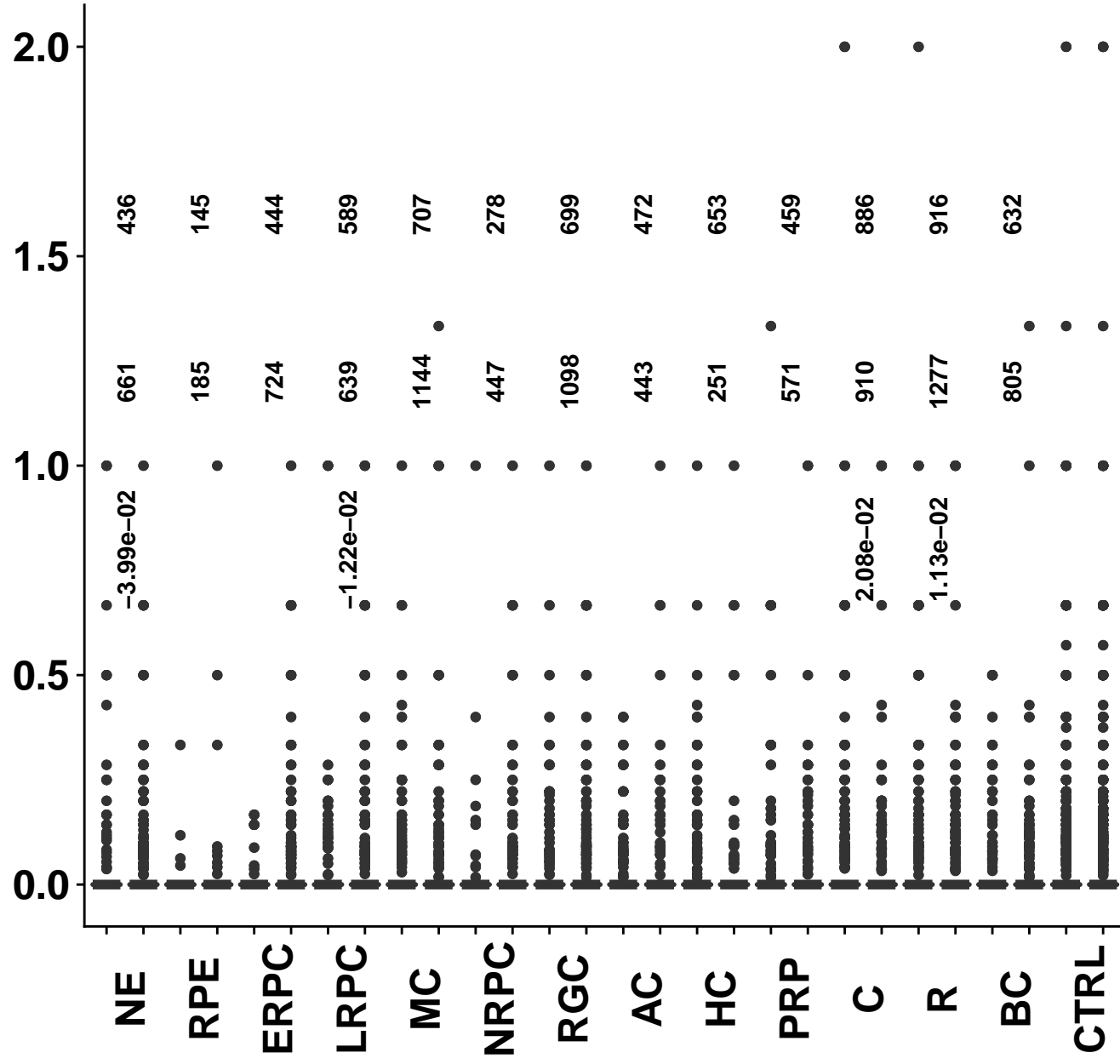
Mafk_1_mean



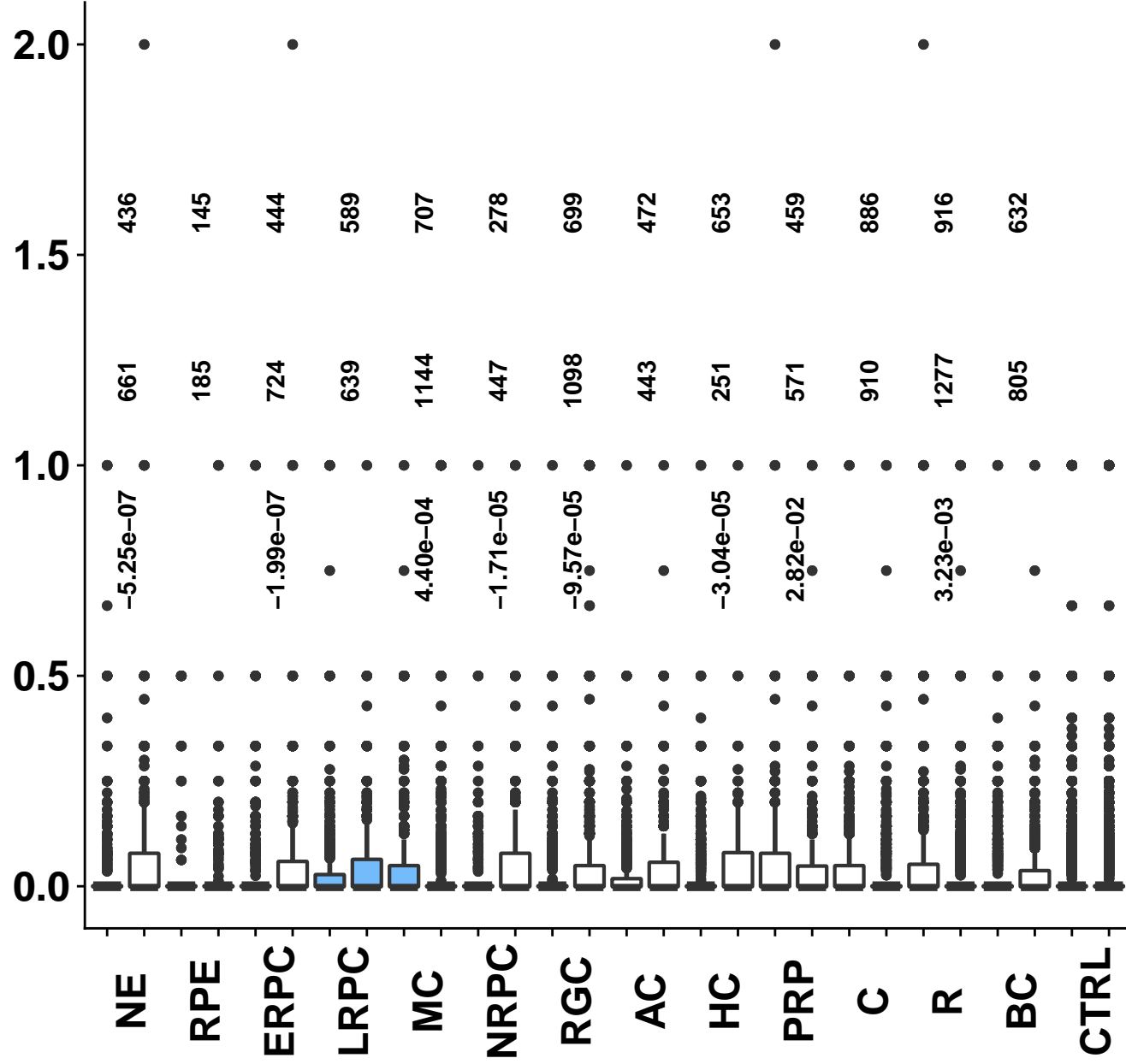
Mafk_2_mean



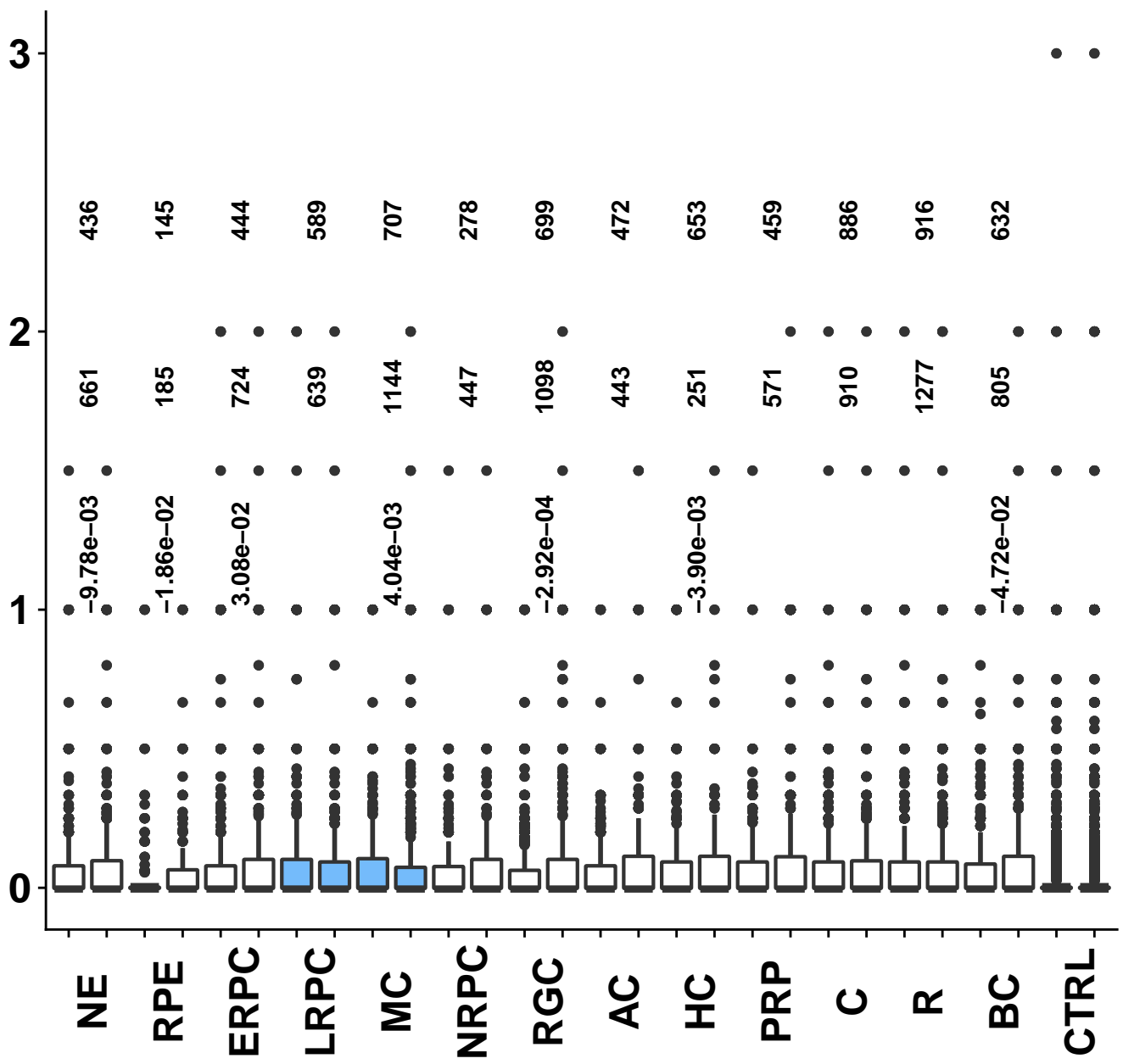
Mafk_3_mean



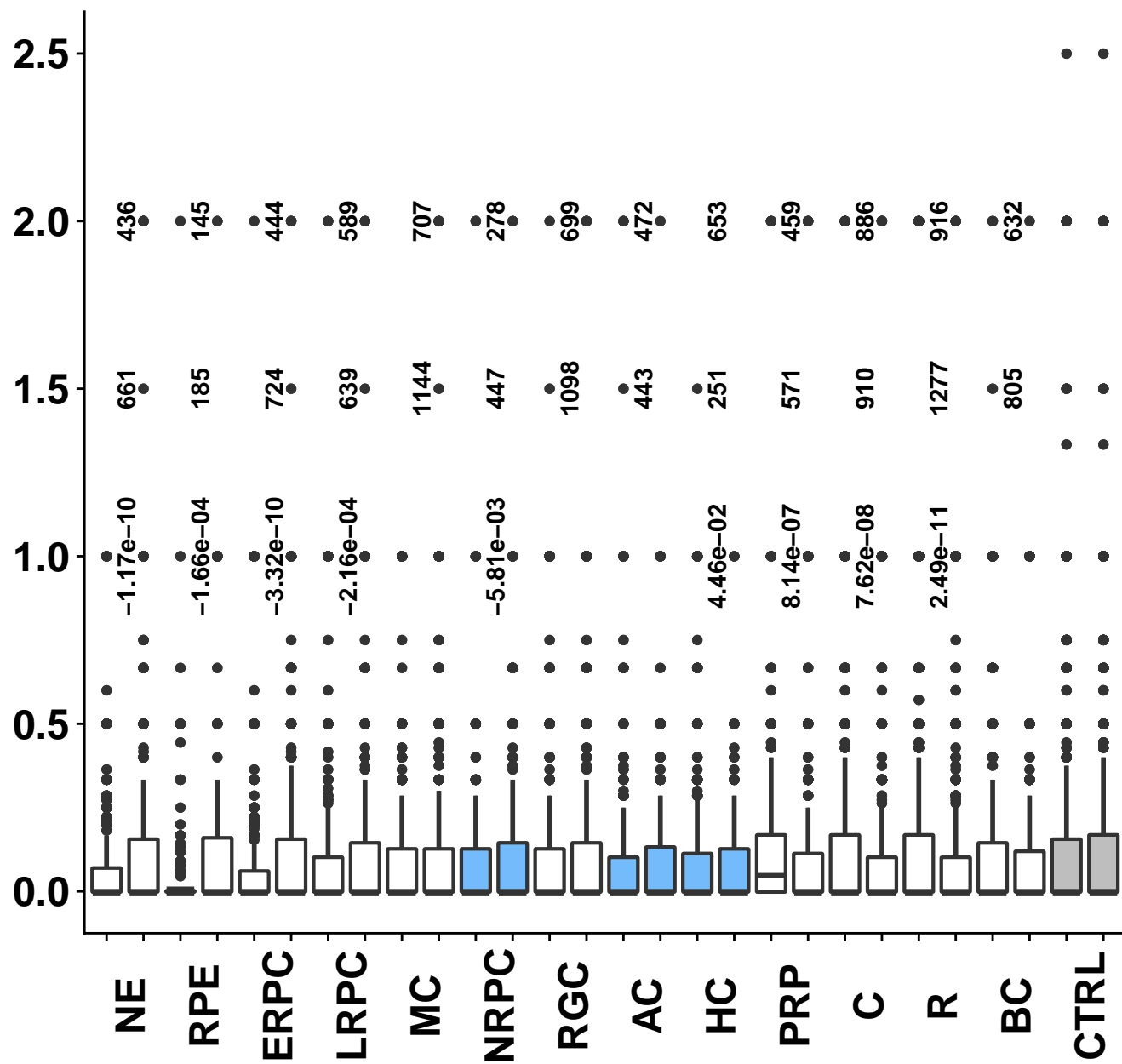
Mafk_4_mean



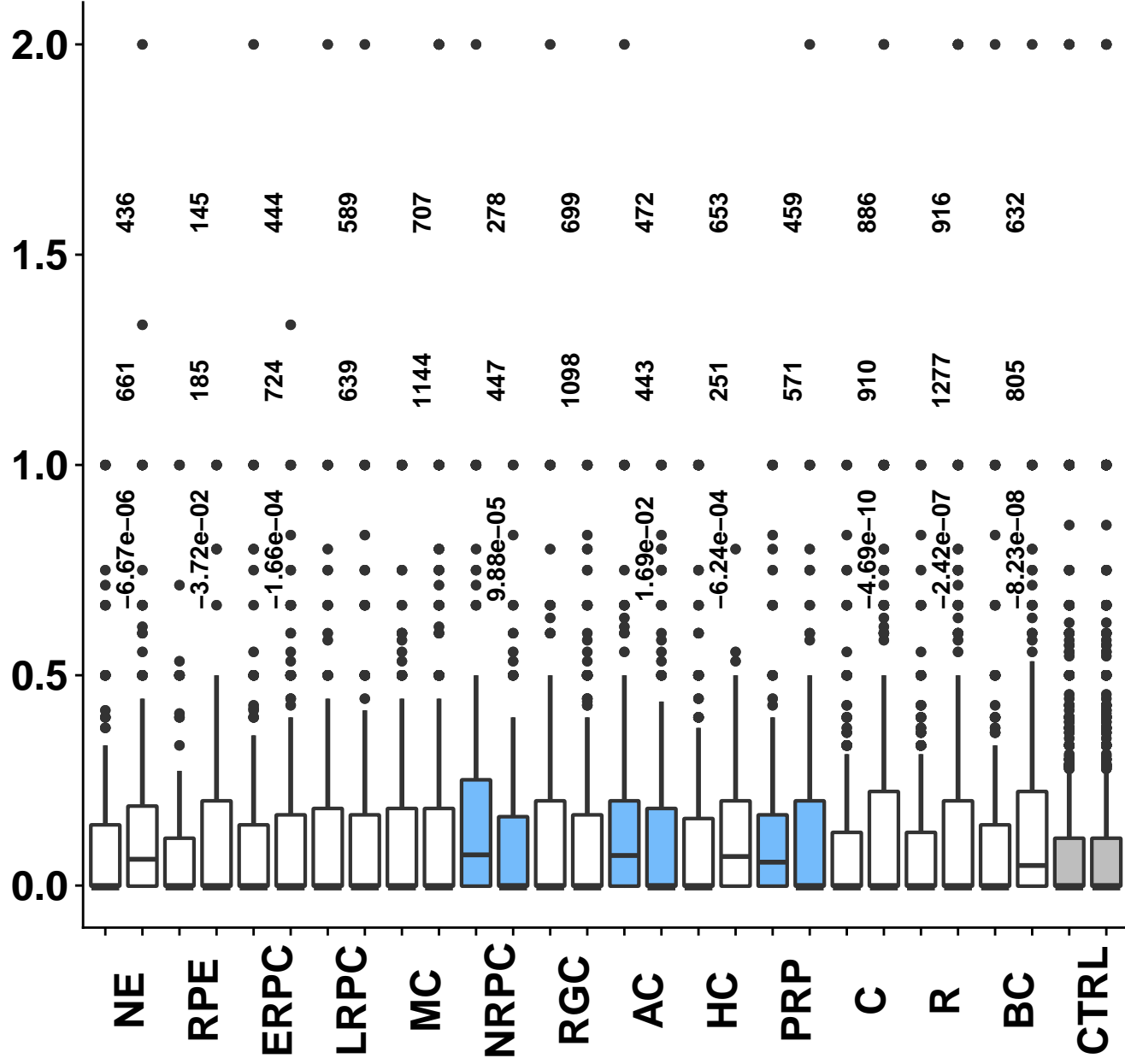
Mafk_5_mean



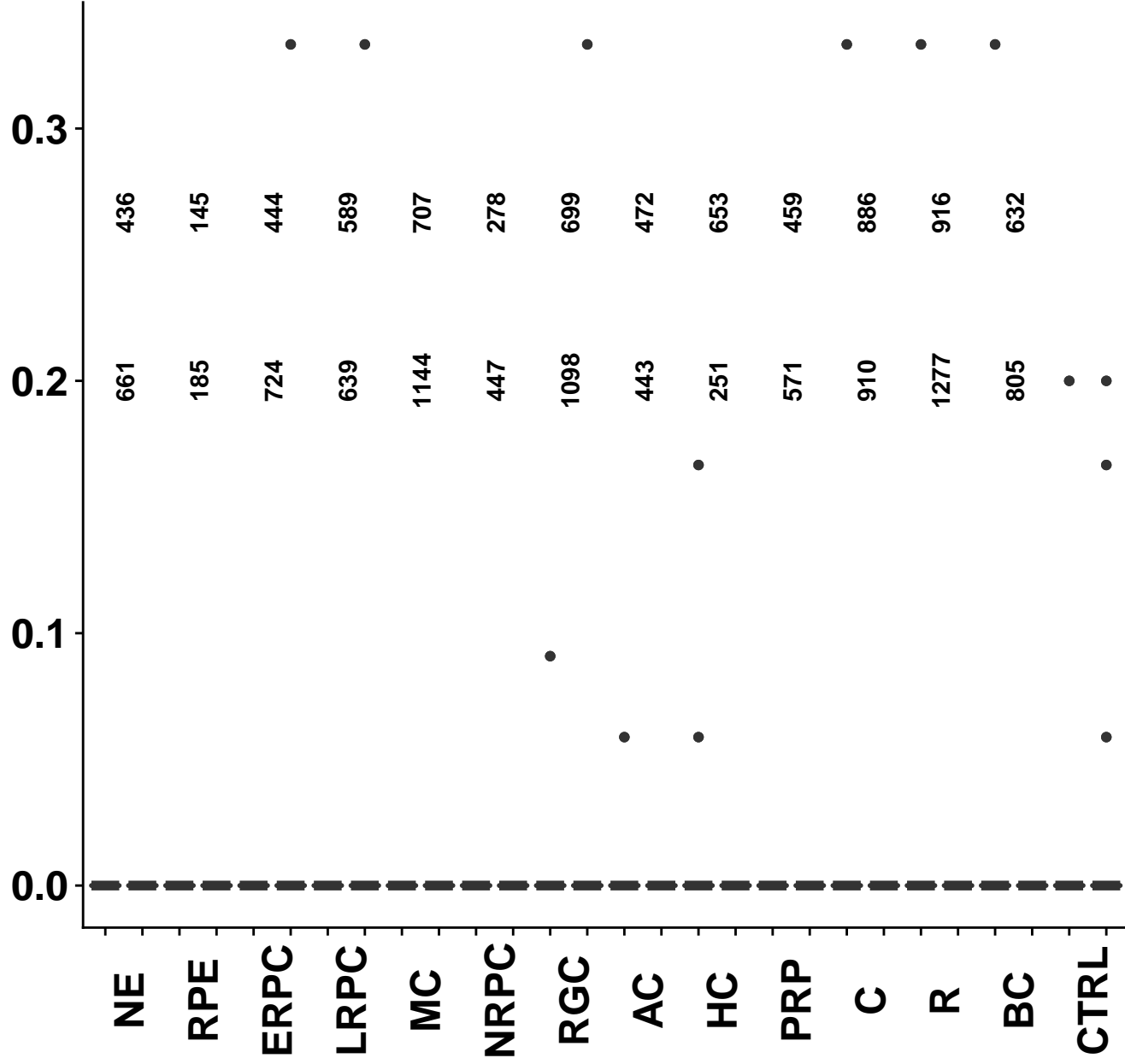
Zeb2_1_mean



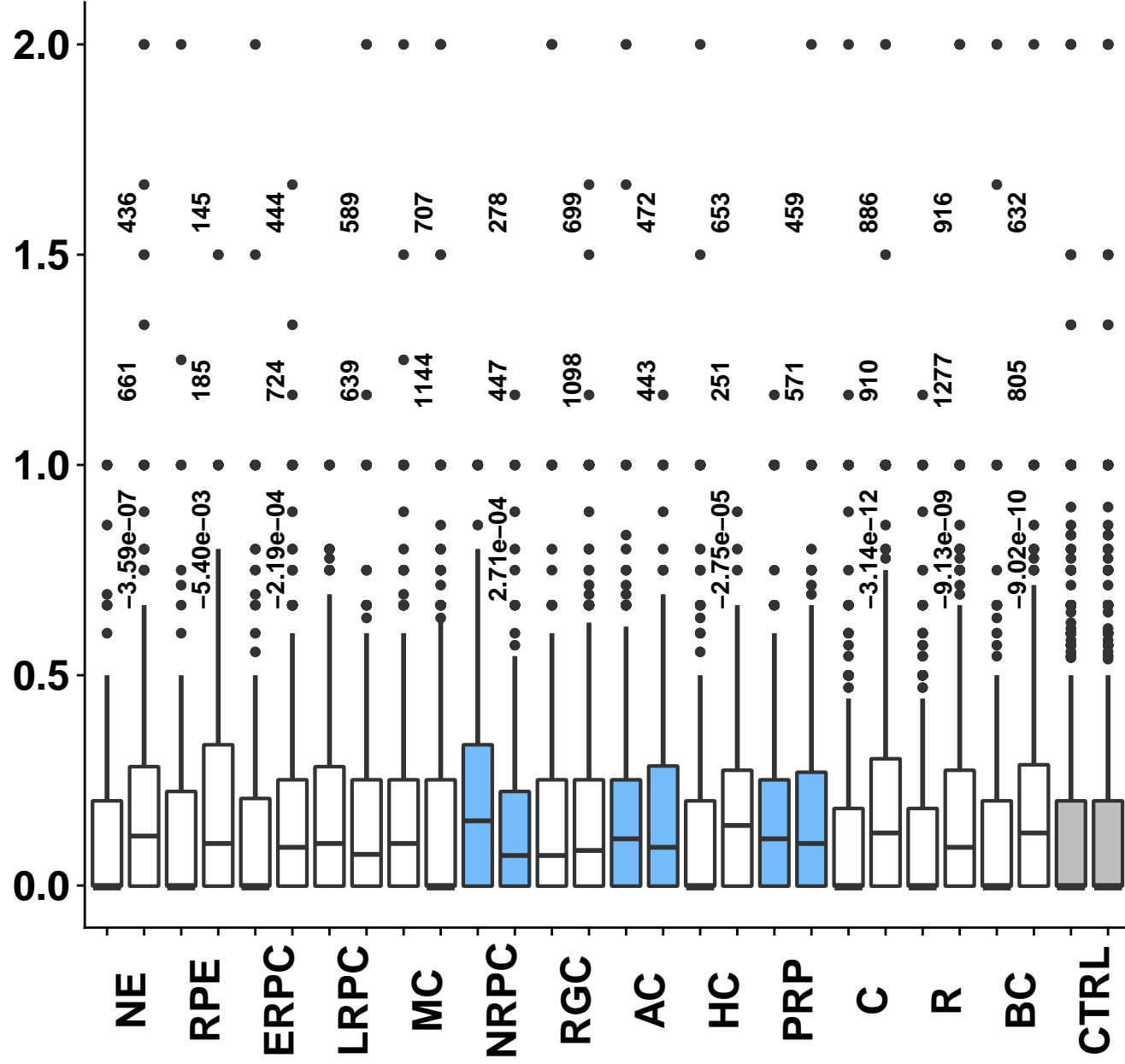
Sox4_1_mean



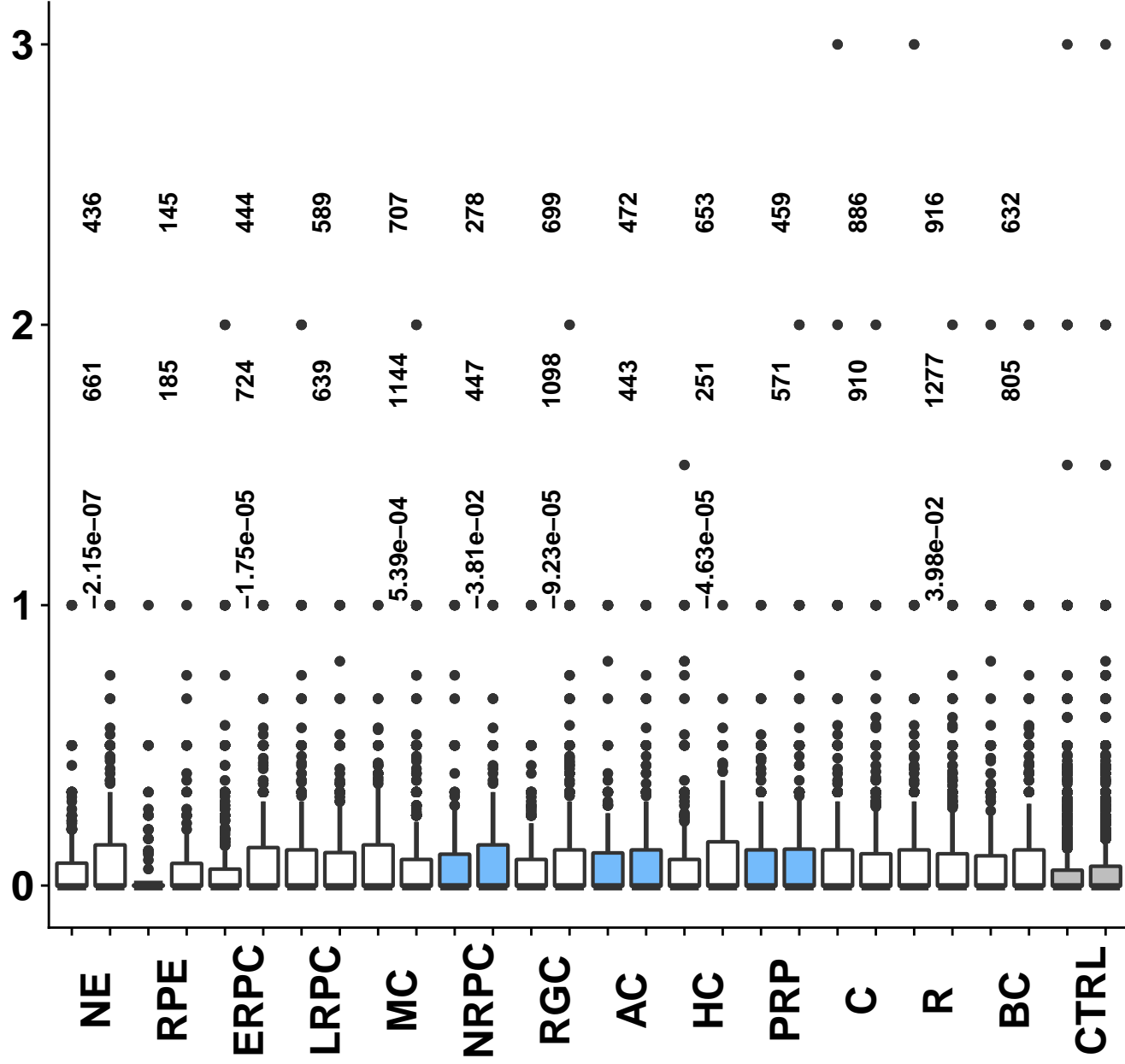
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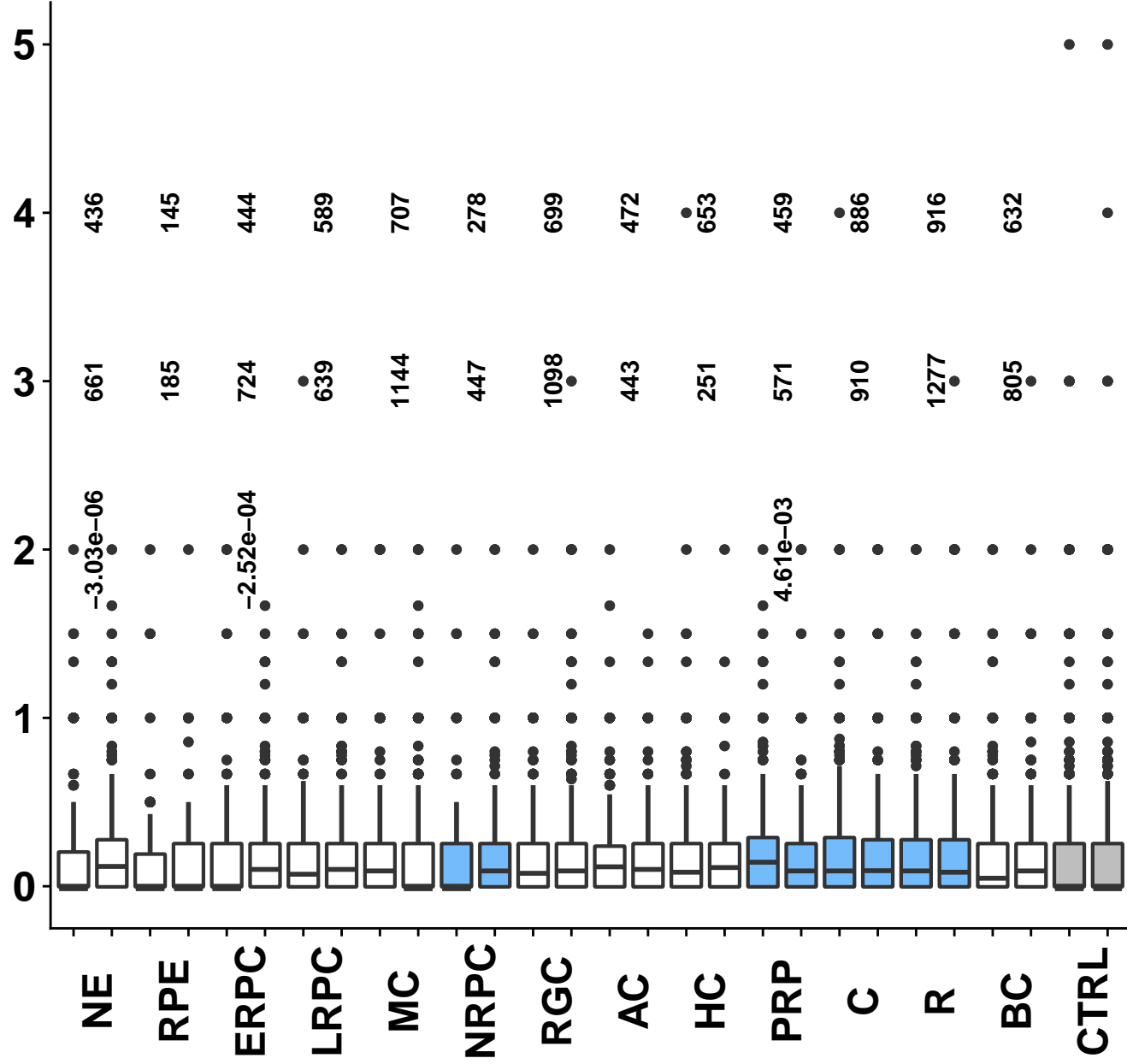
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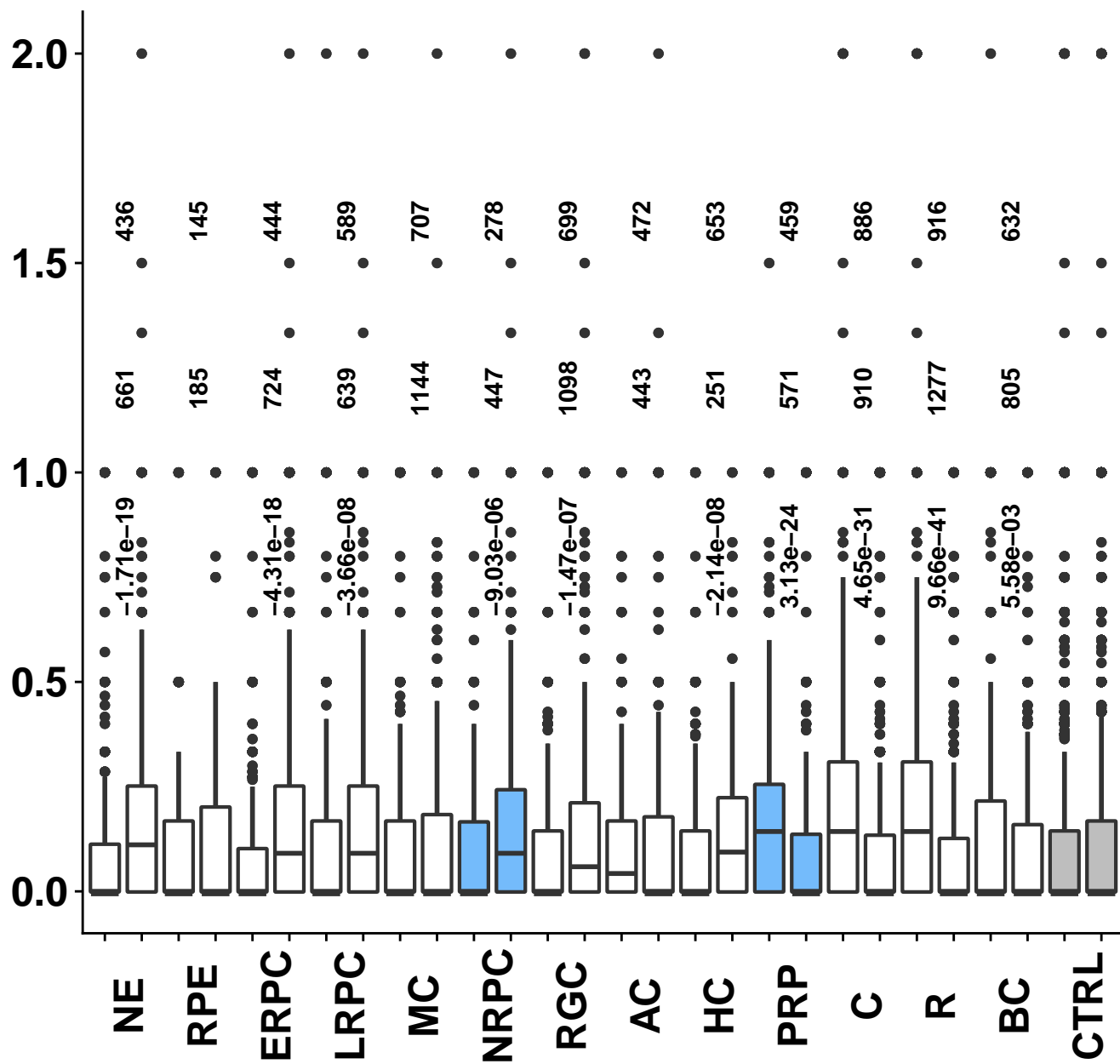
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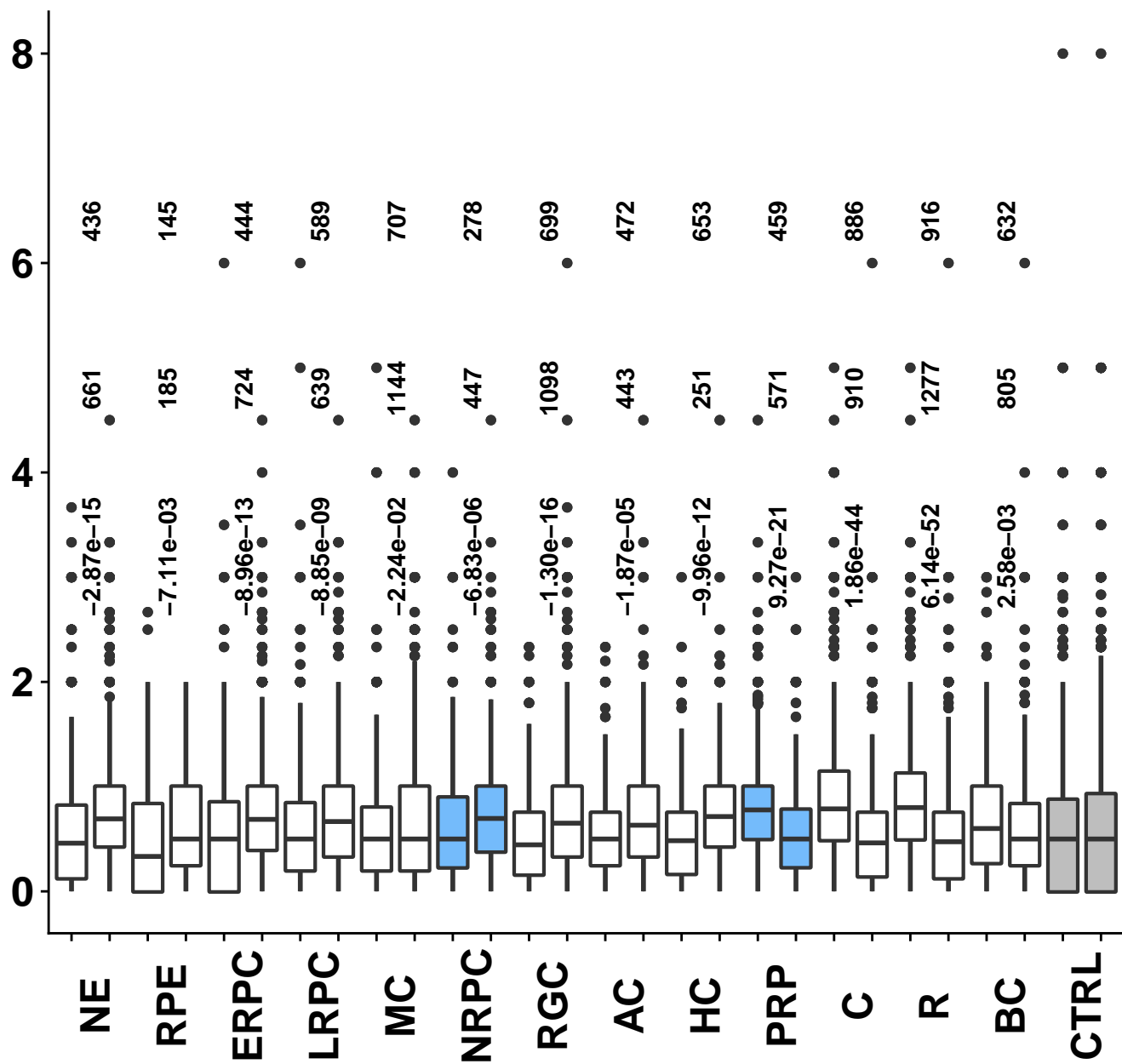
Insm1_1_mean



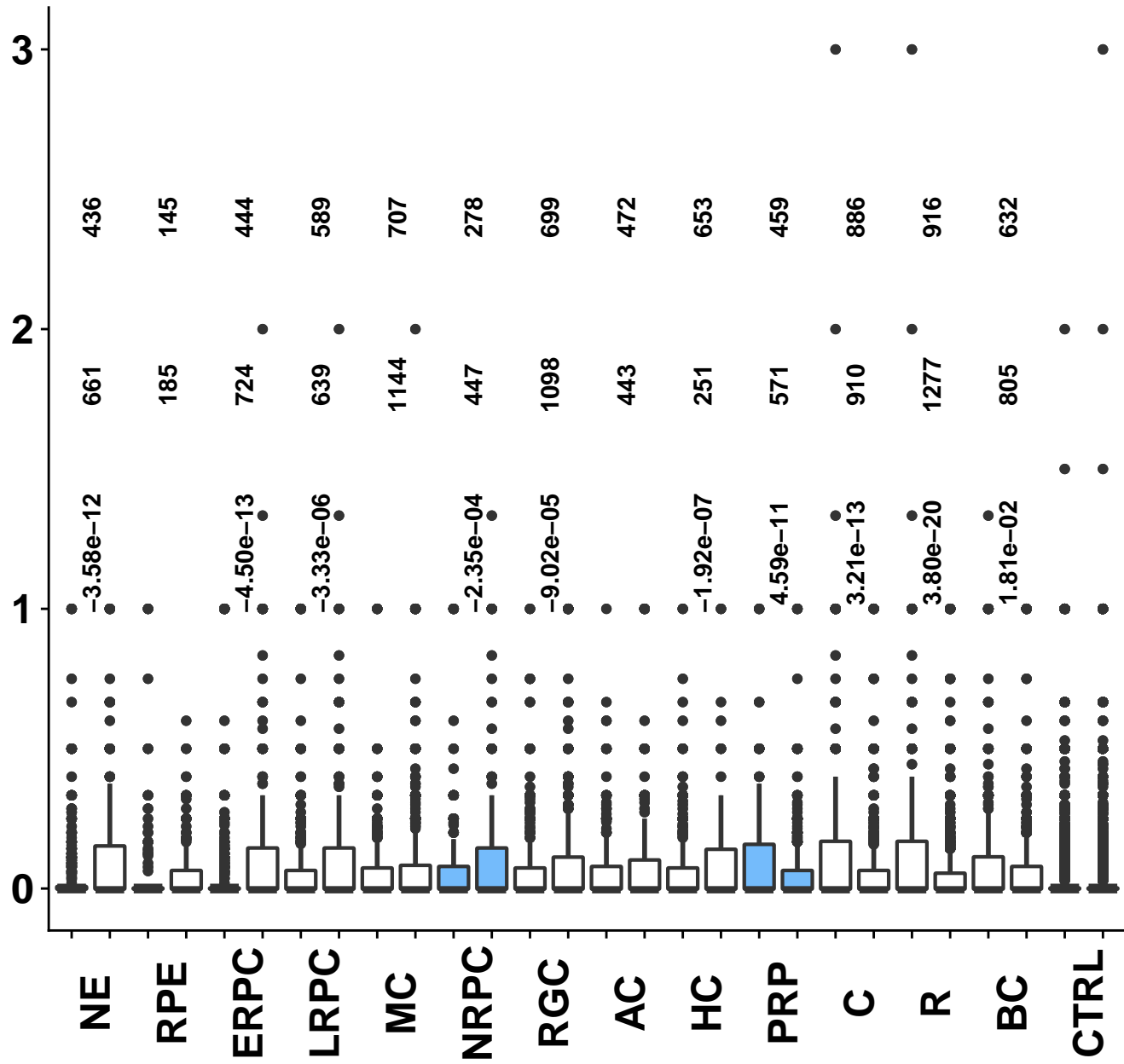
Otx2_1_mean



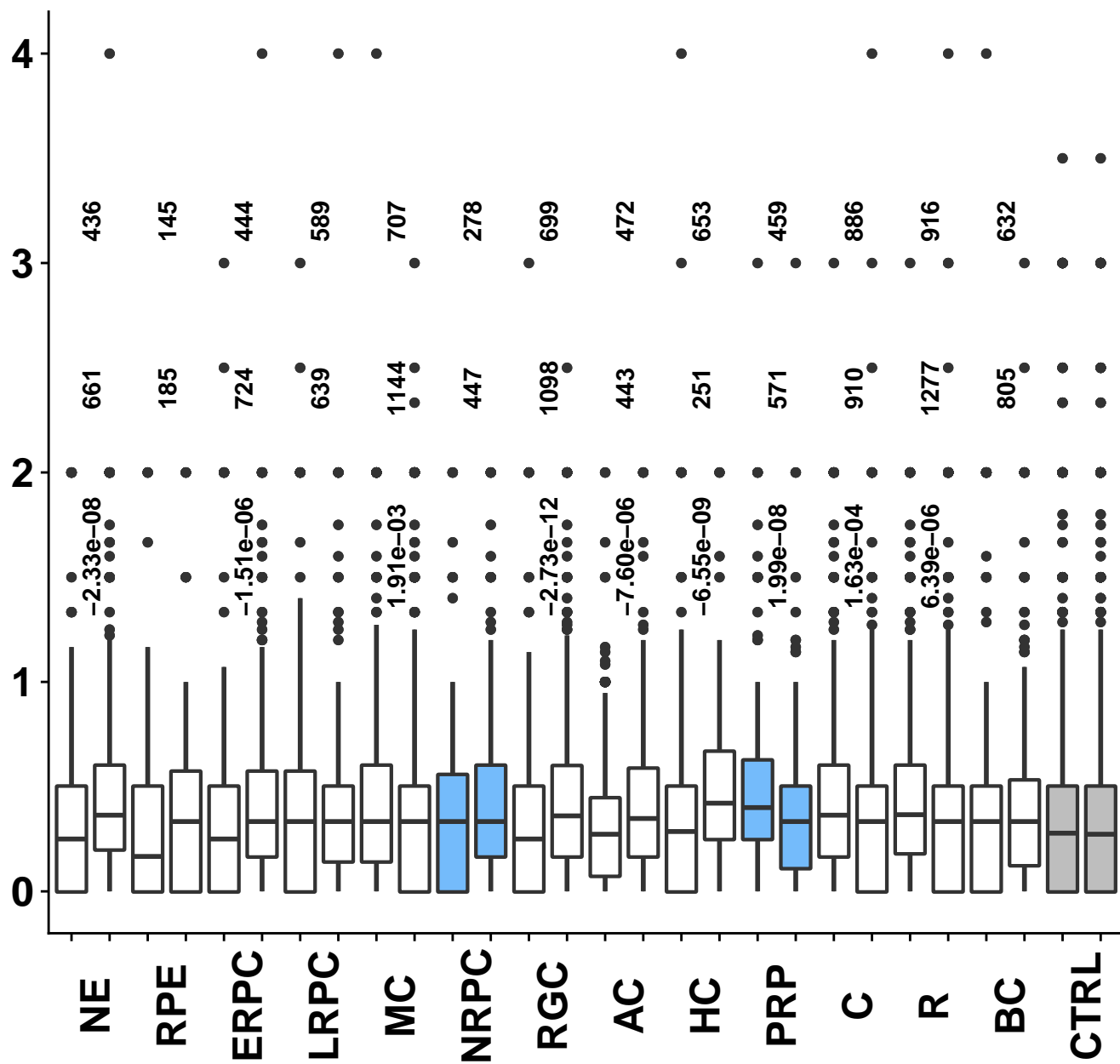
Otx2_2_mean



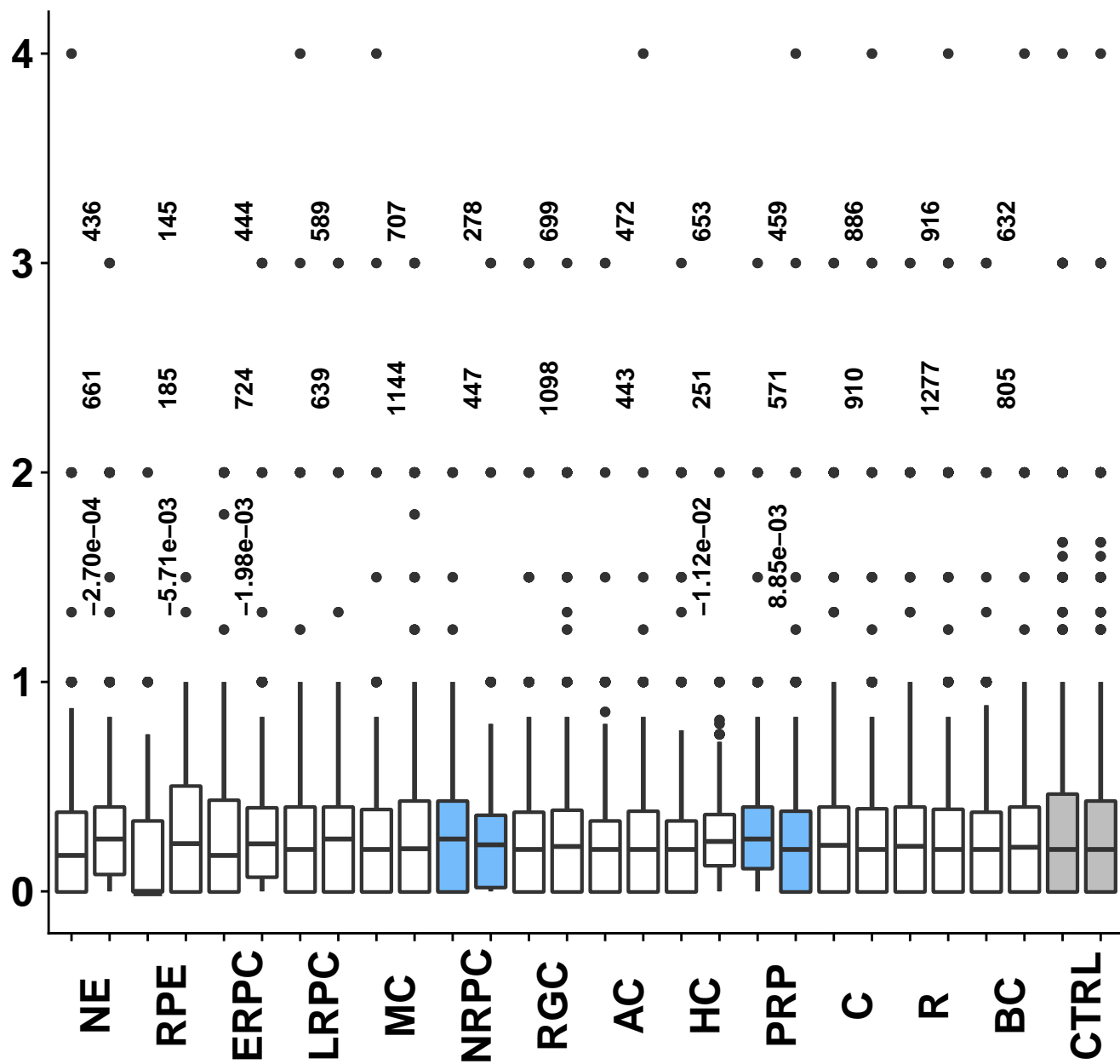
Otx2_3_mean



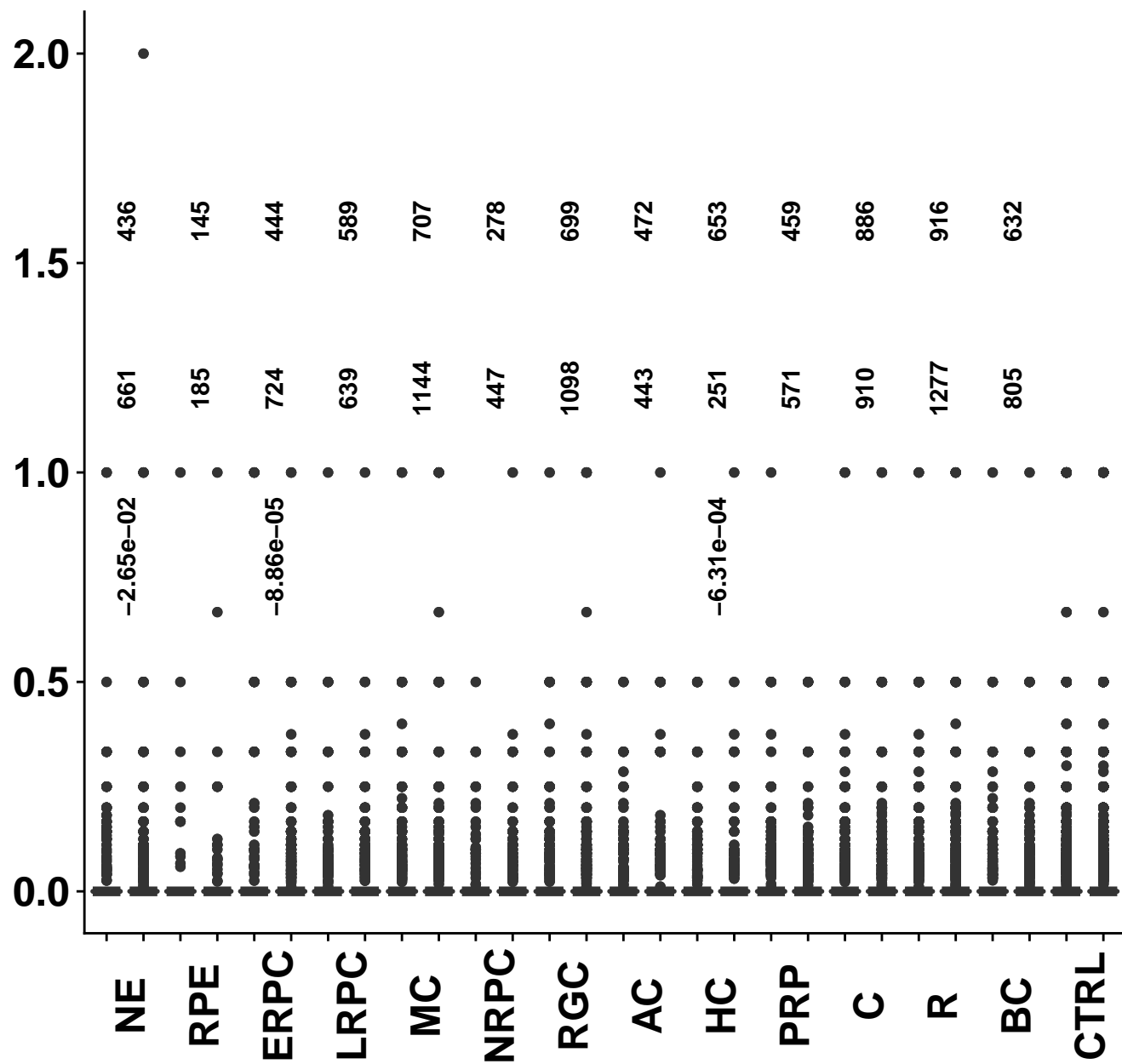
Rorb_1_mean



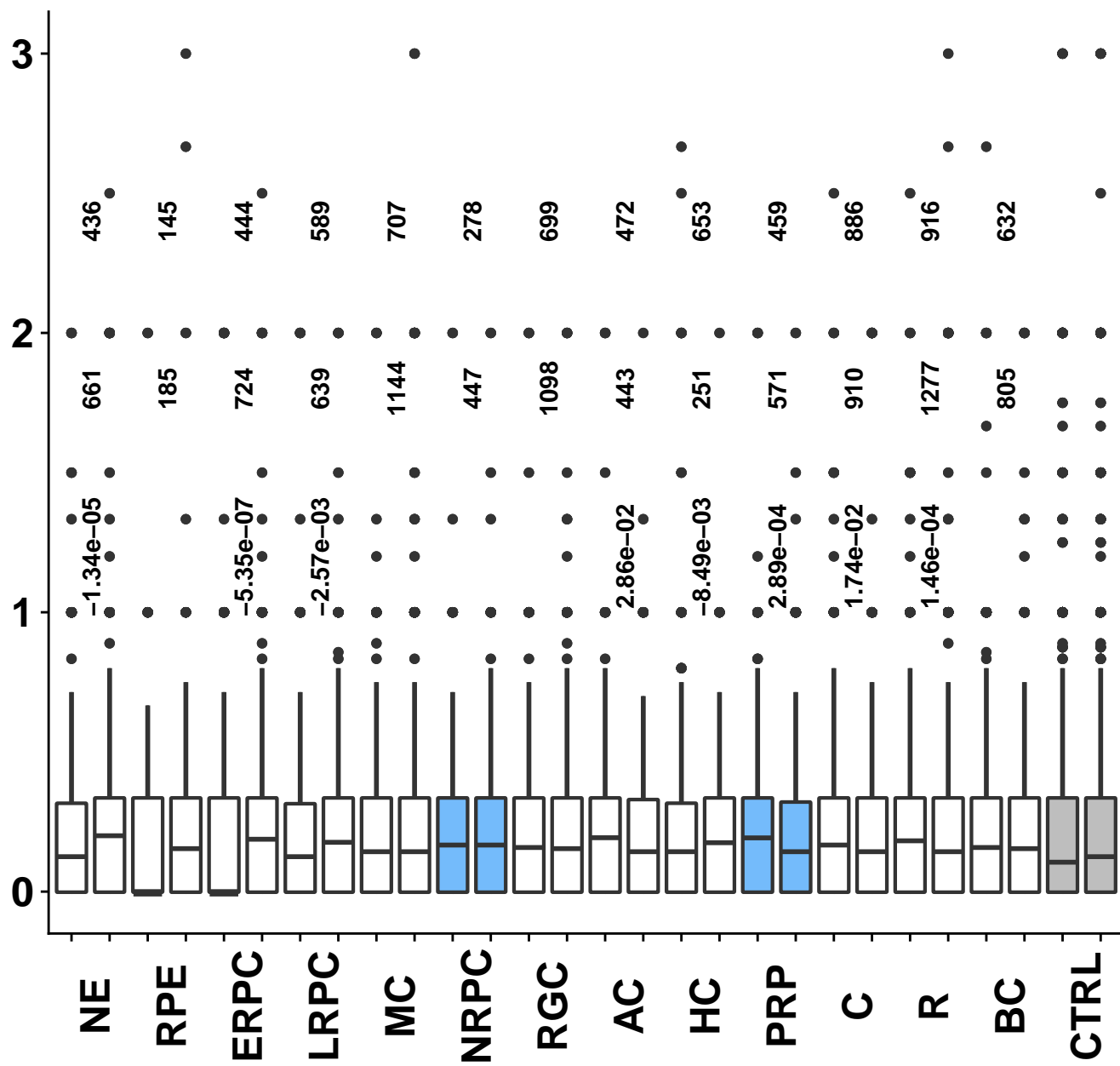
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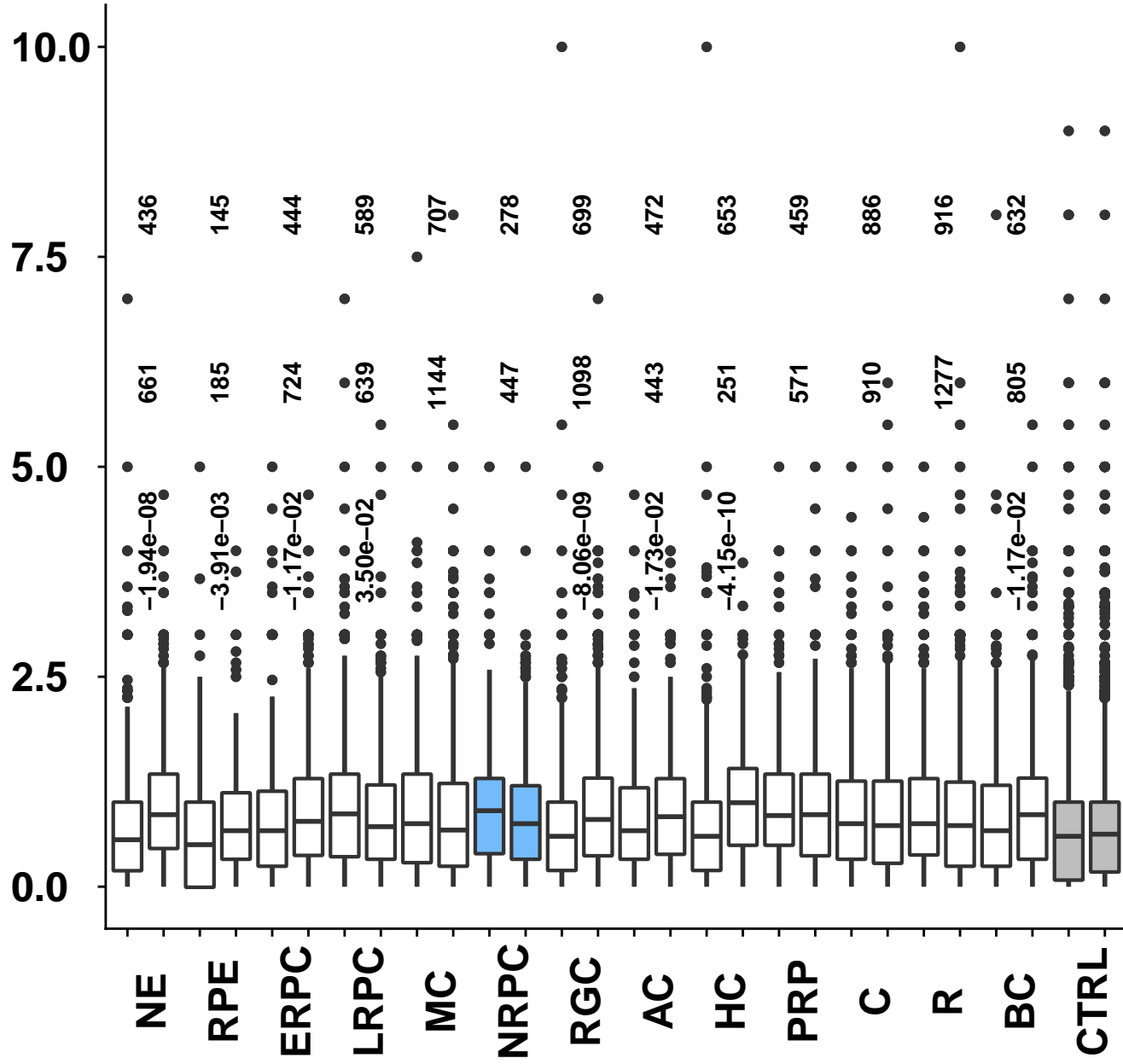
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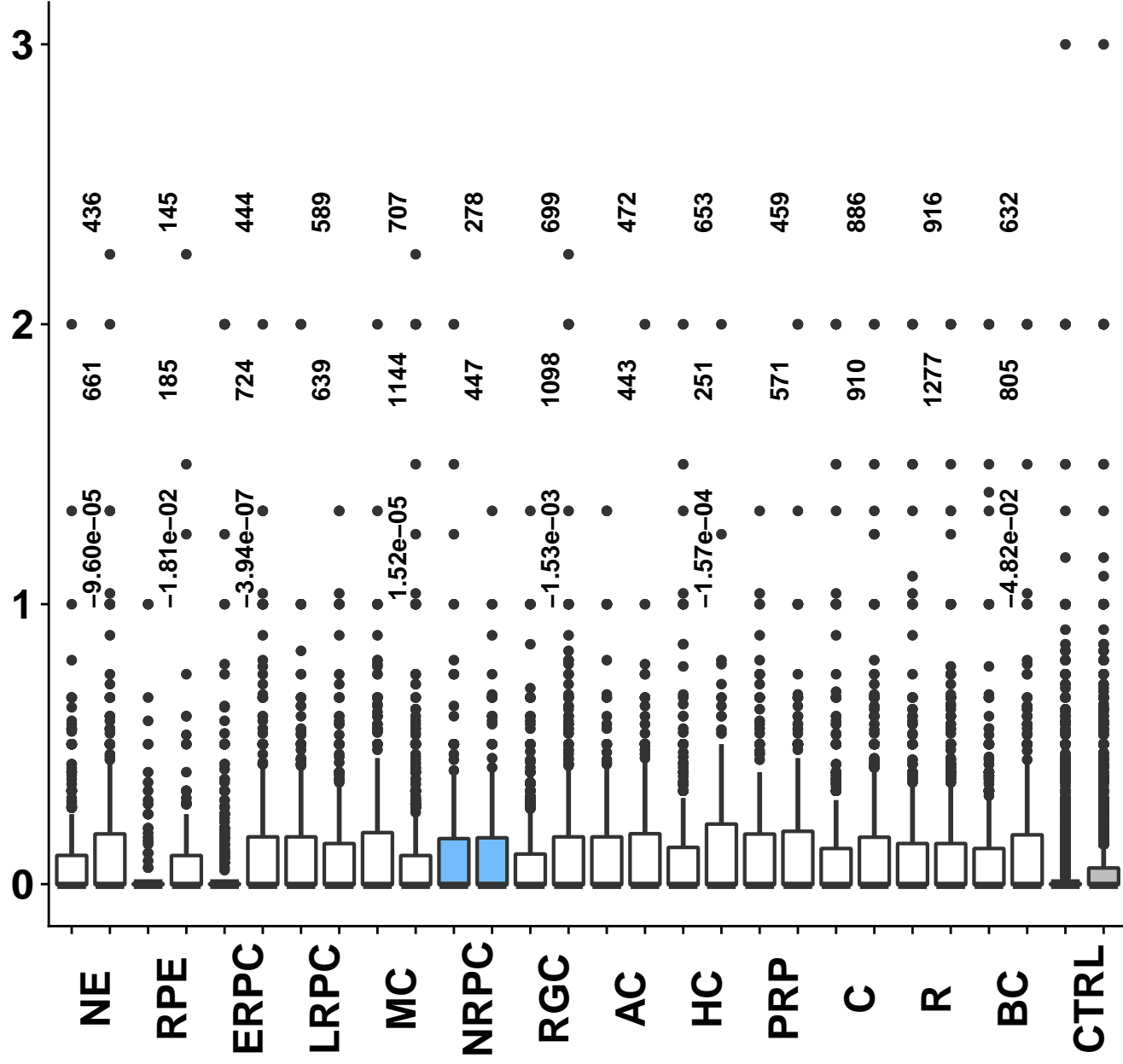
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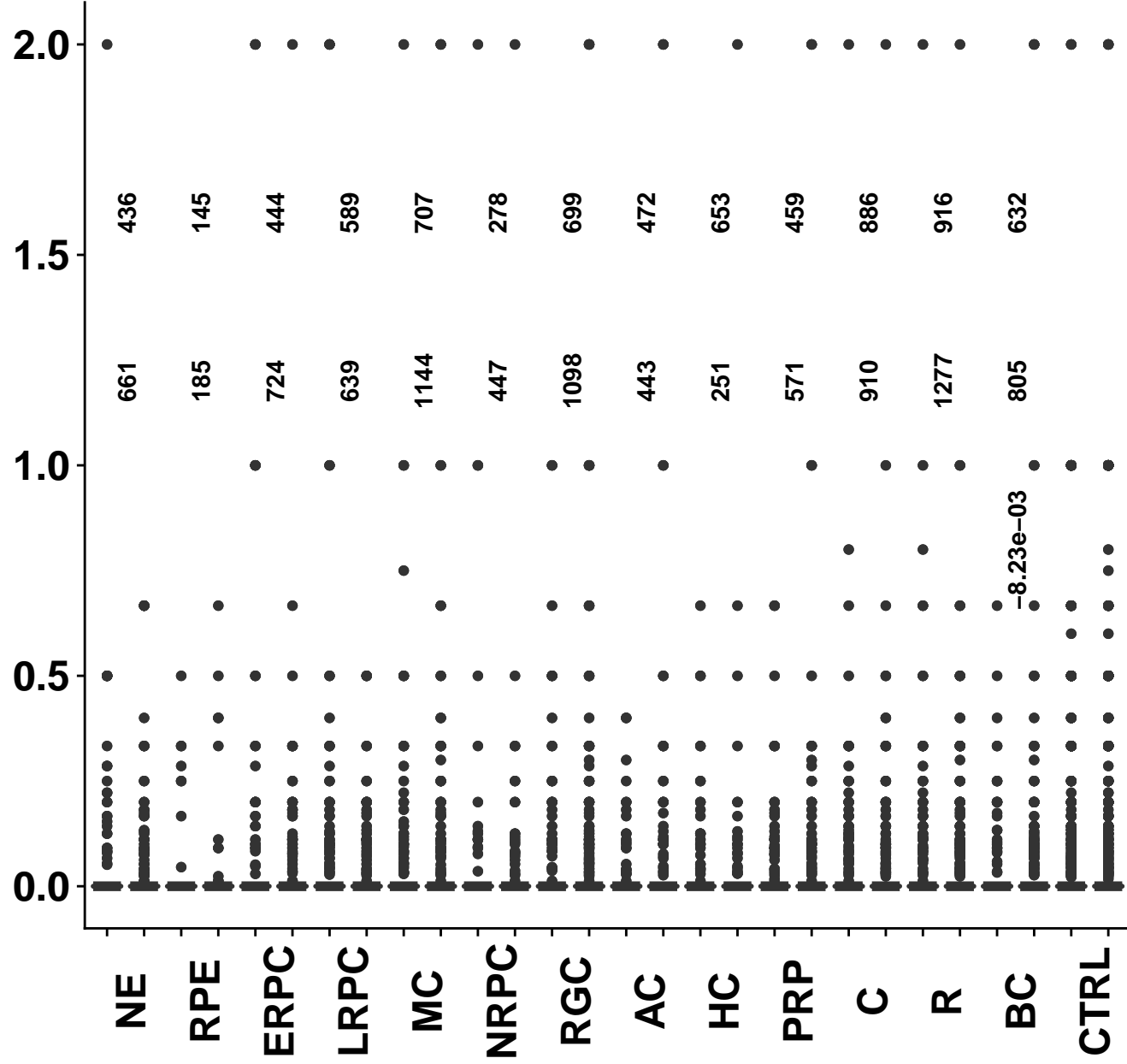
Dlx2_1_mean



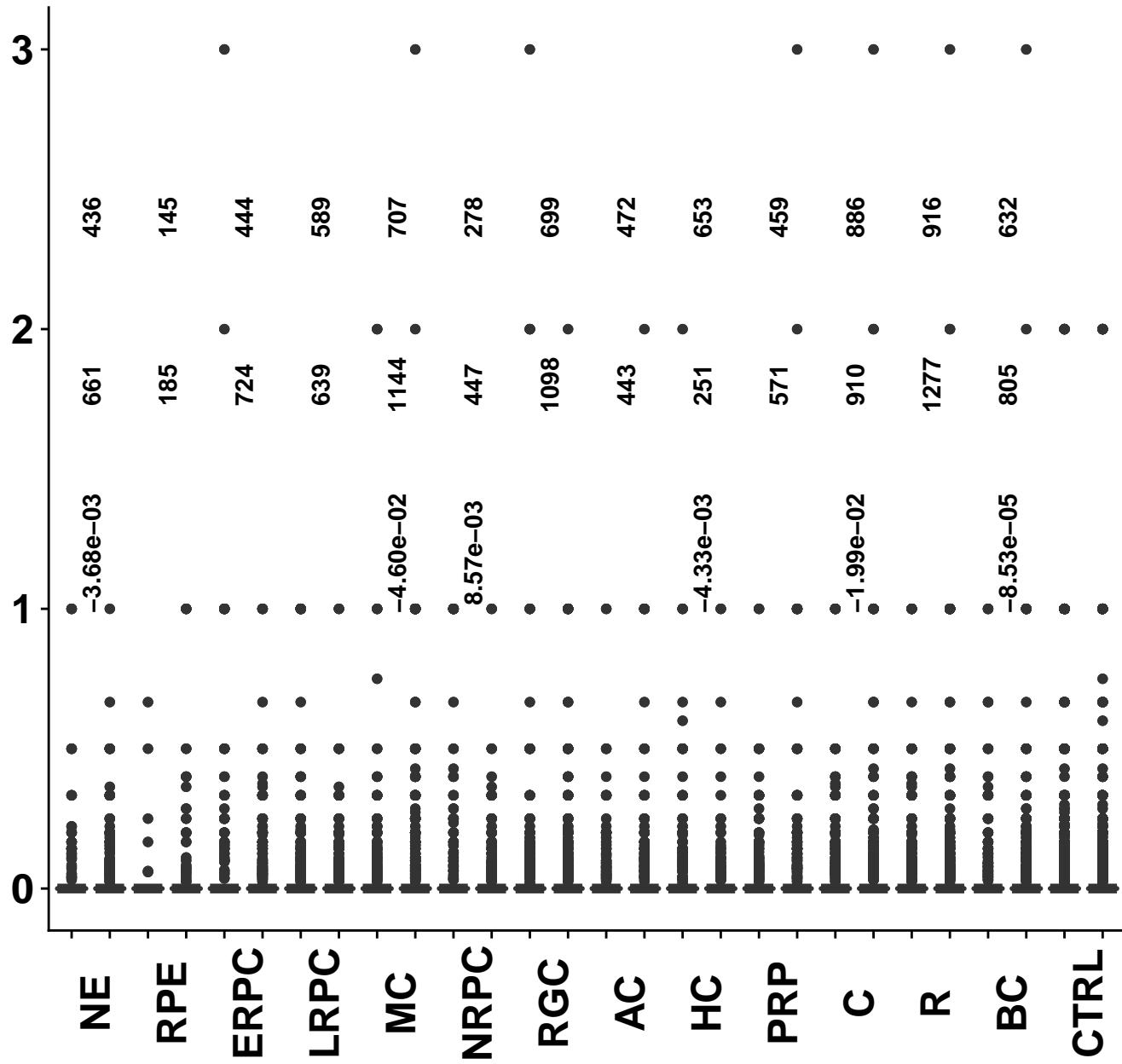
Dlx2_2_mean



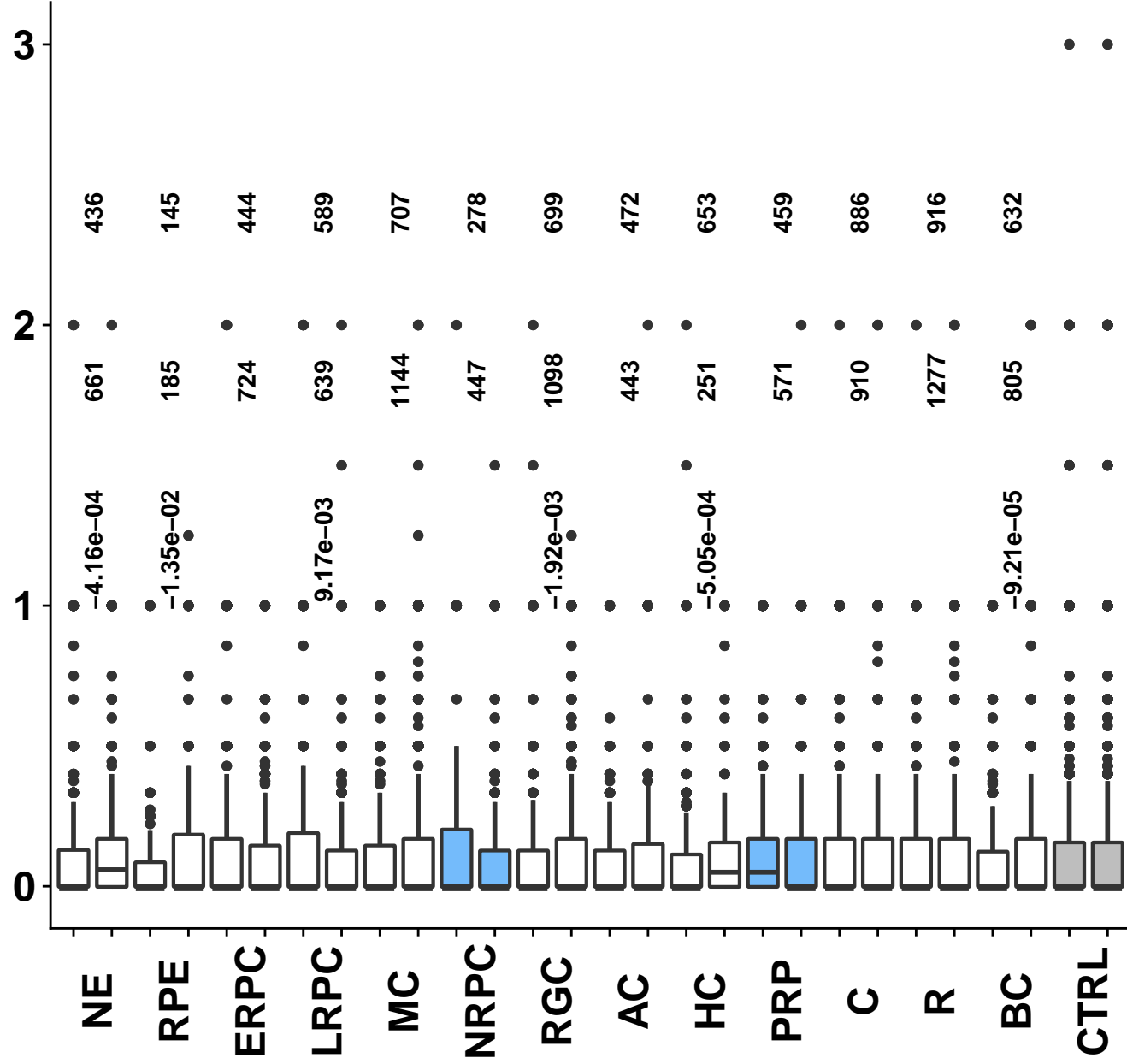
Mybl1_1_mean



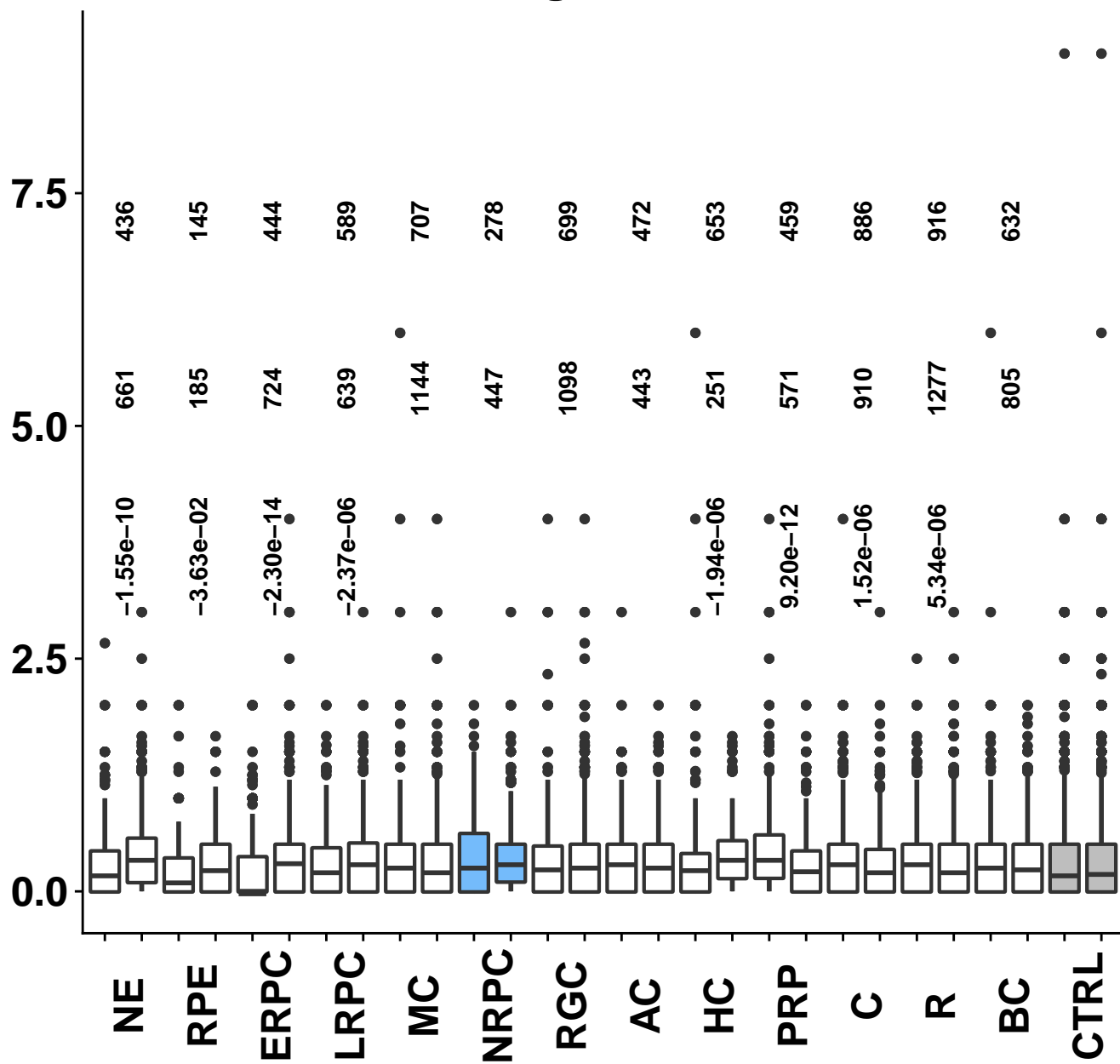
Mybl1_2_mean



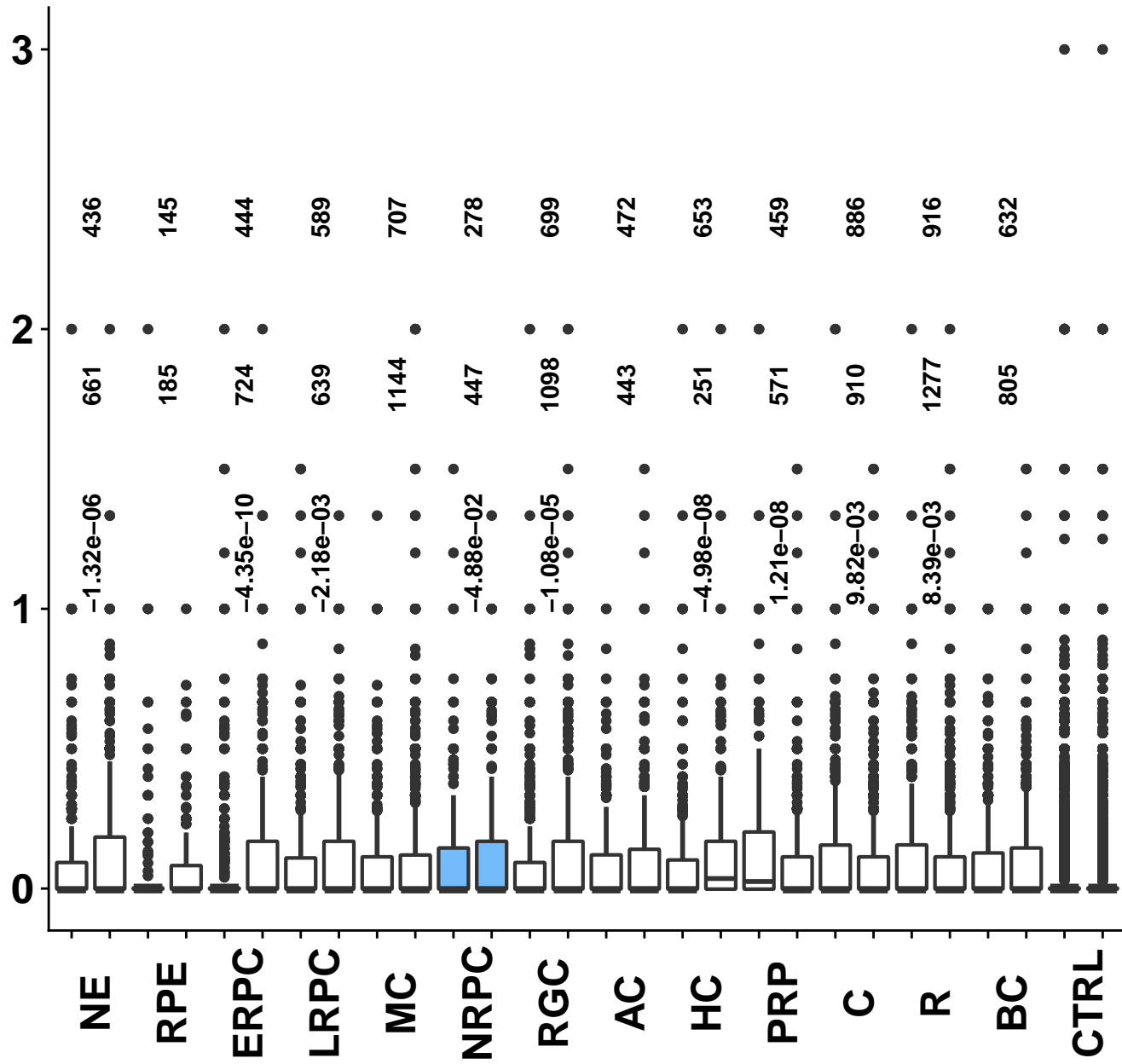
Mybl1_3_mean



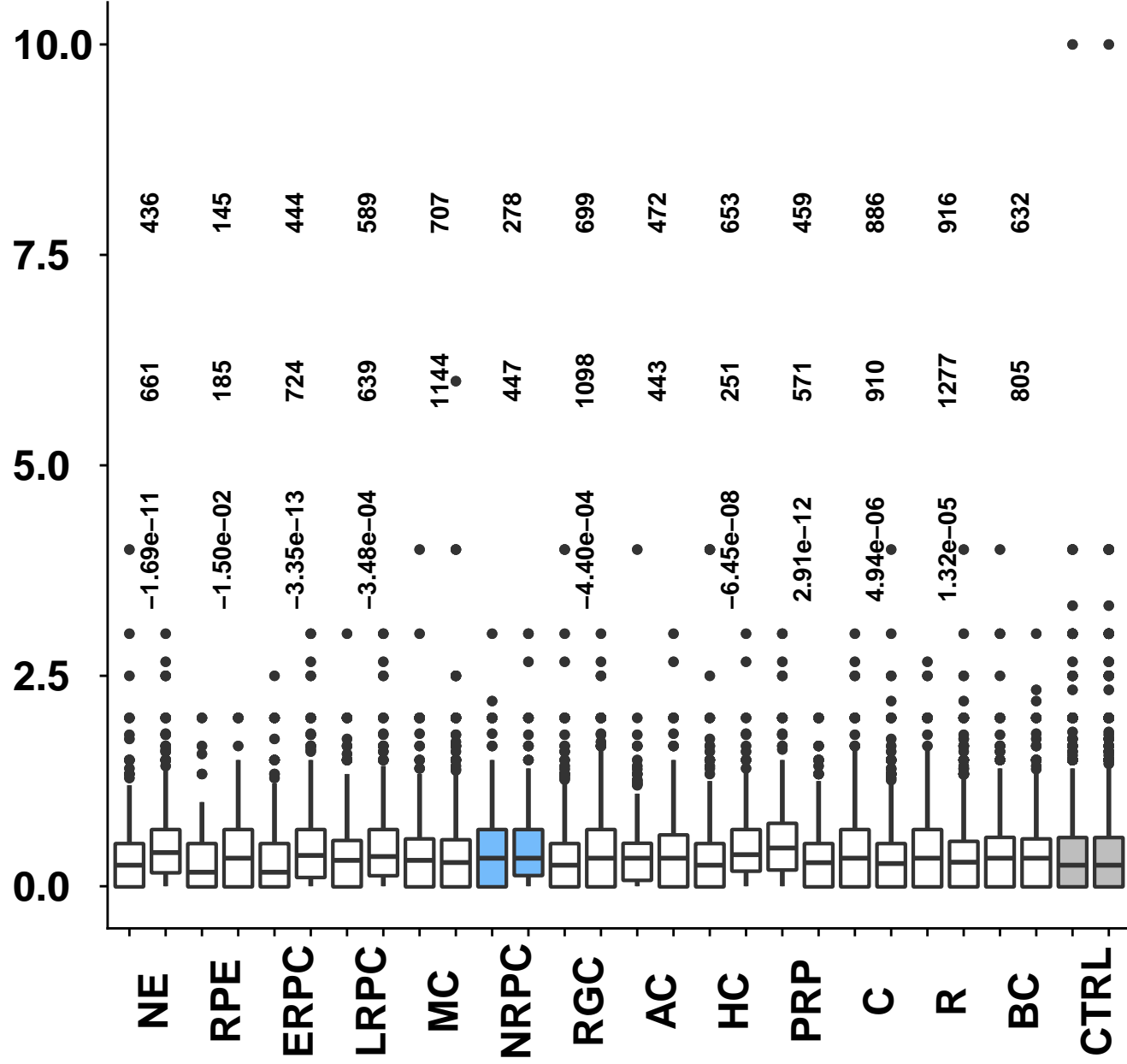
Neurog2_1_mean



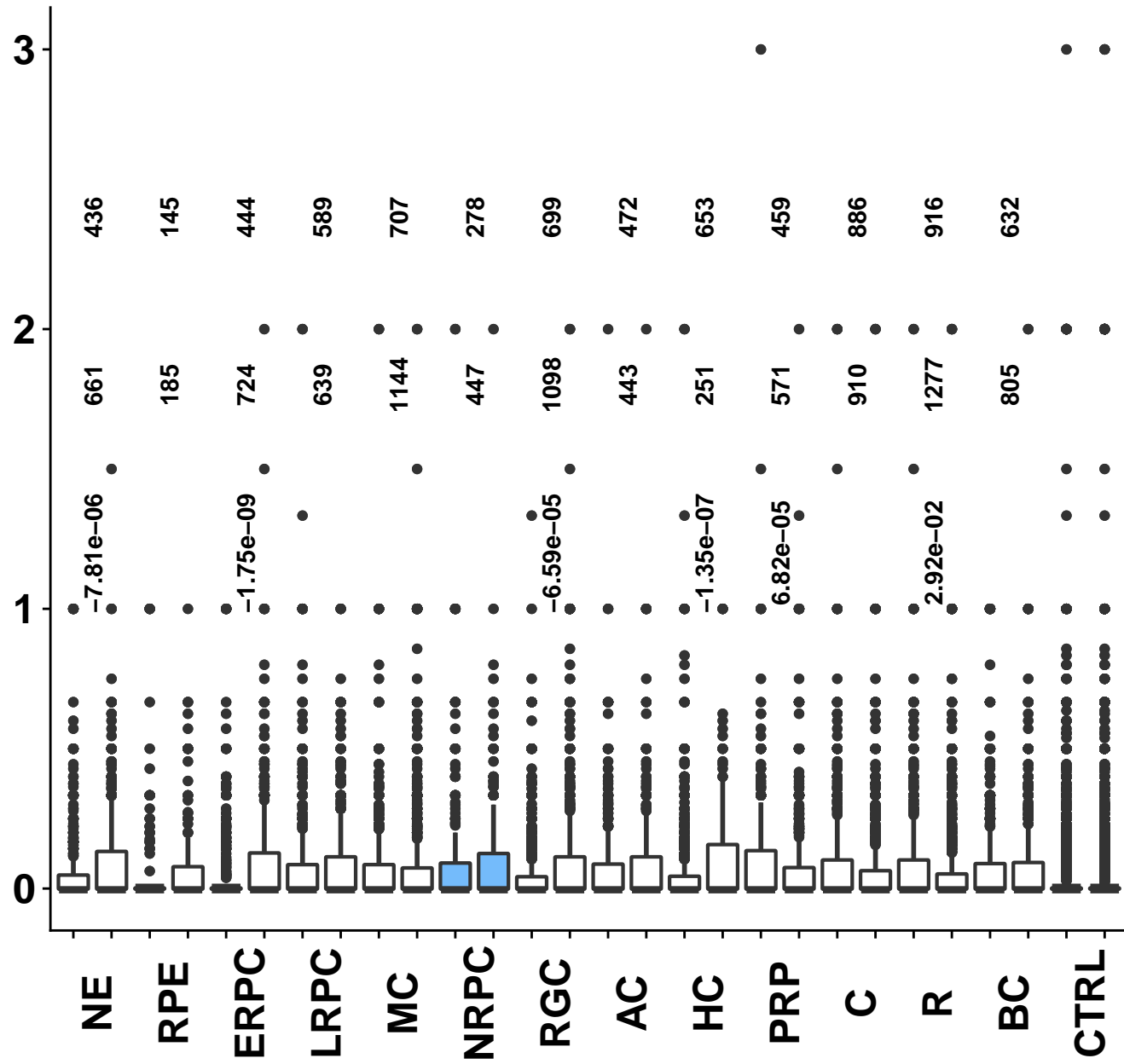
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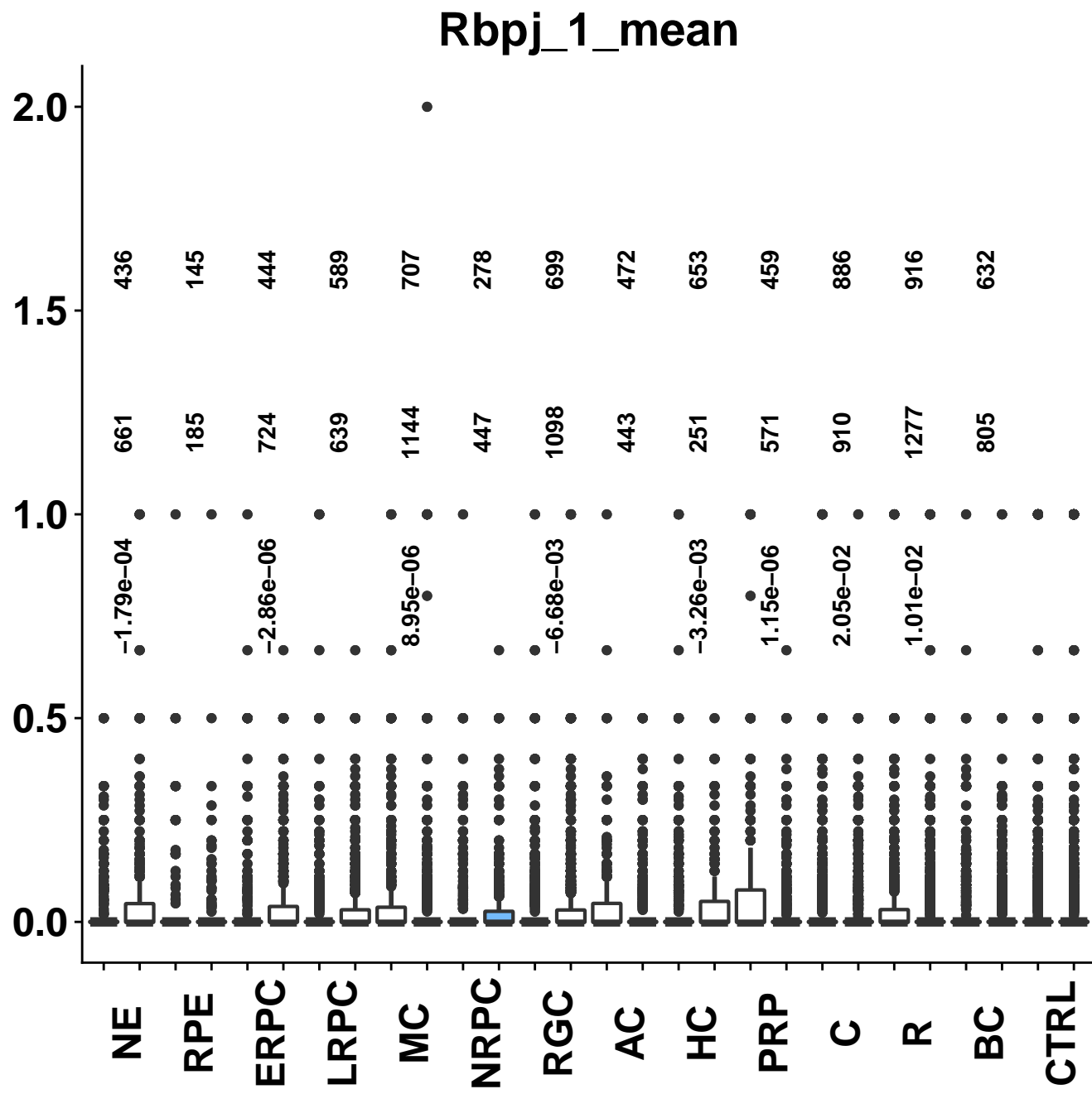


Olig2_1_mean

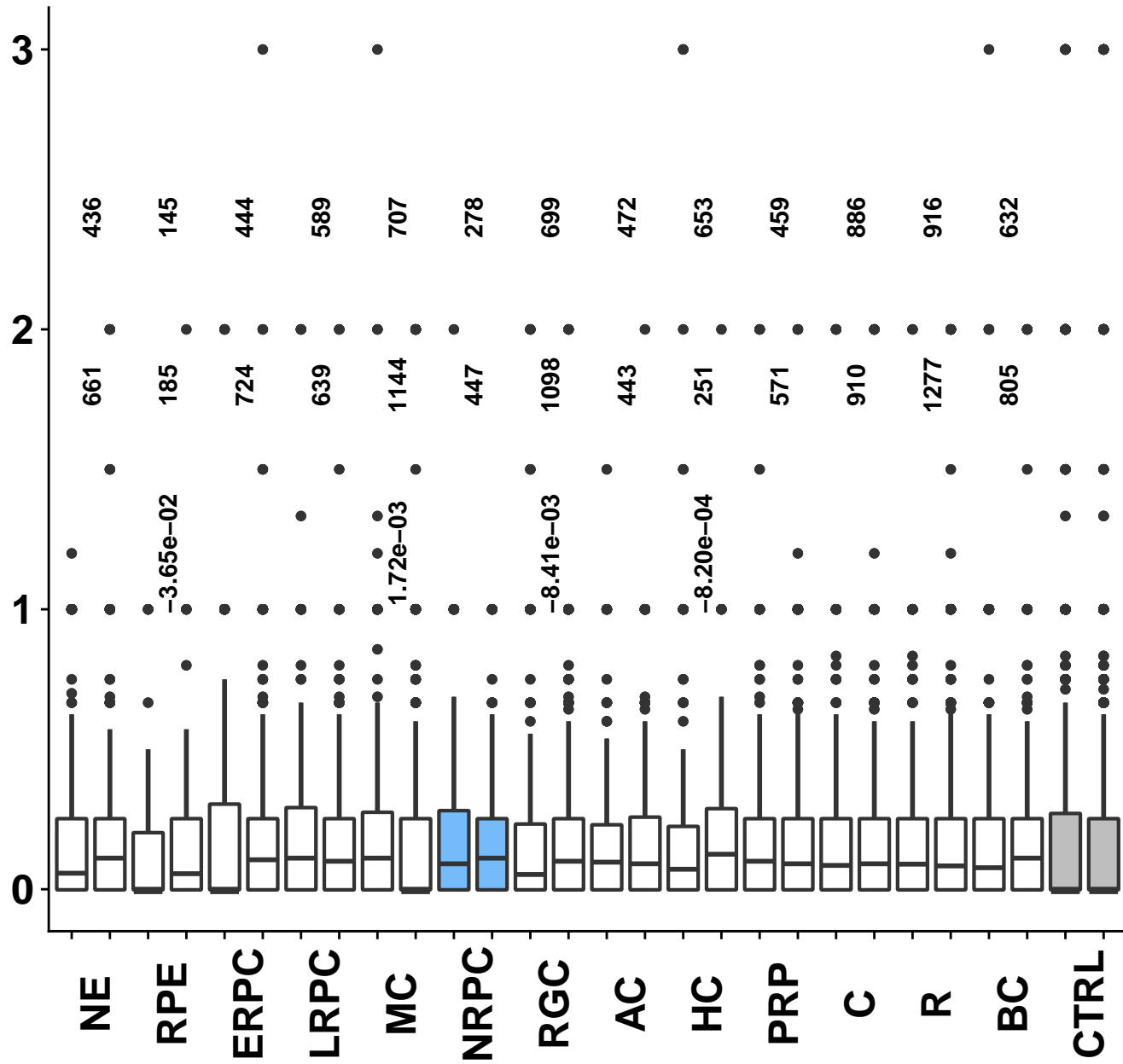


Olig2_2_mean

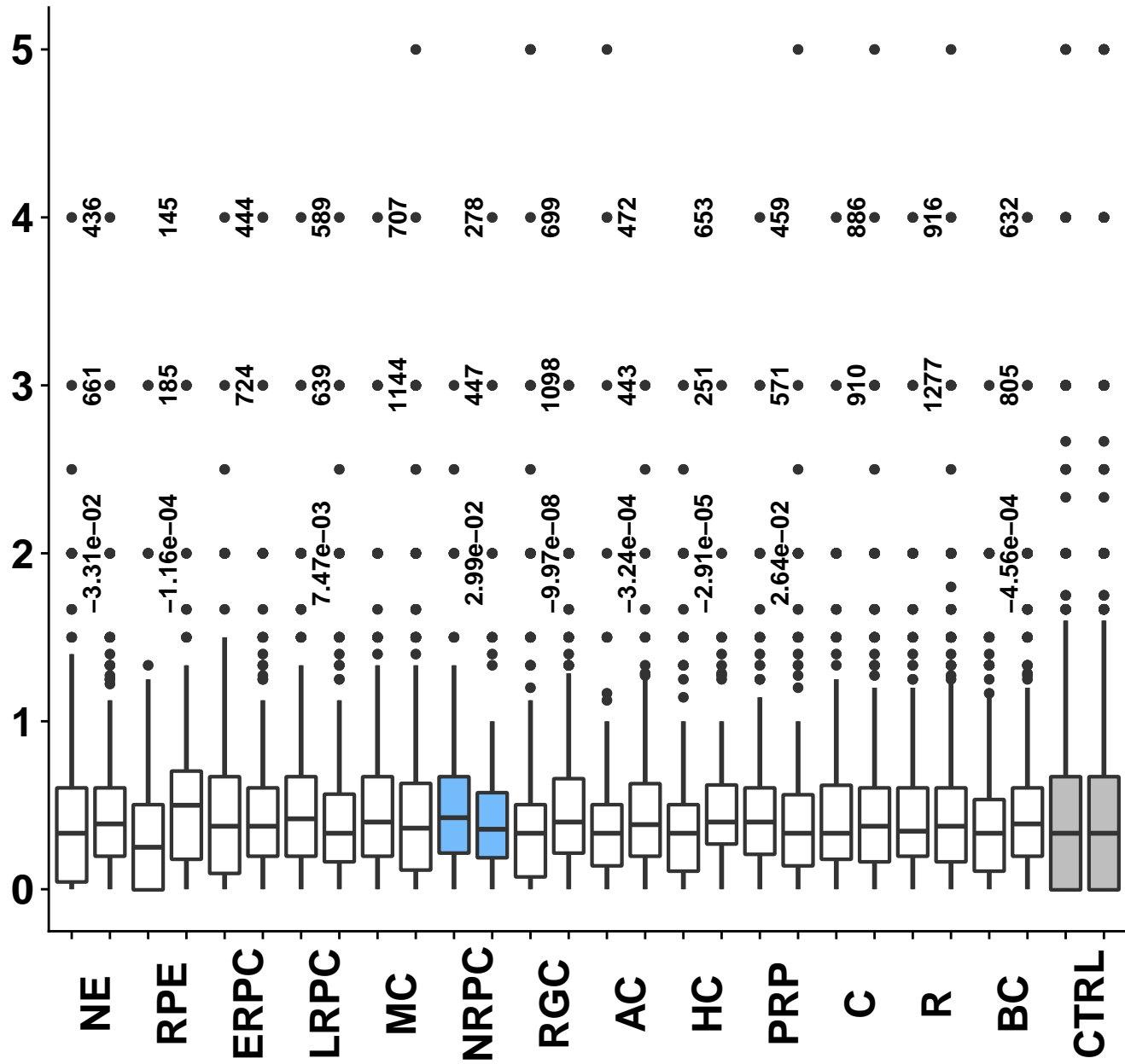




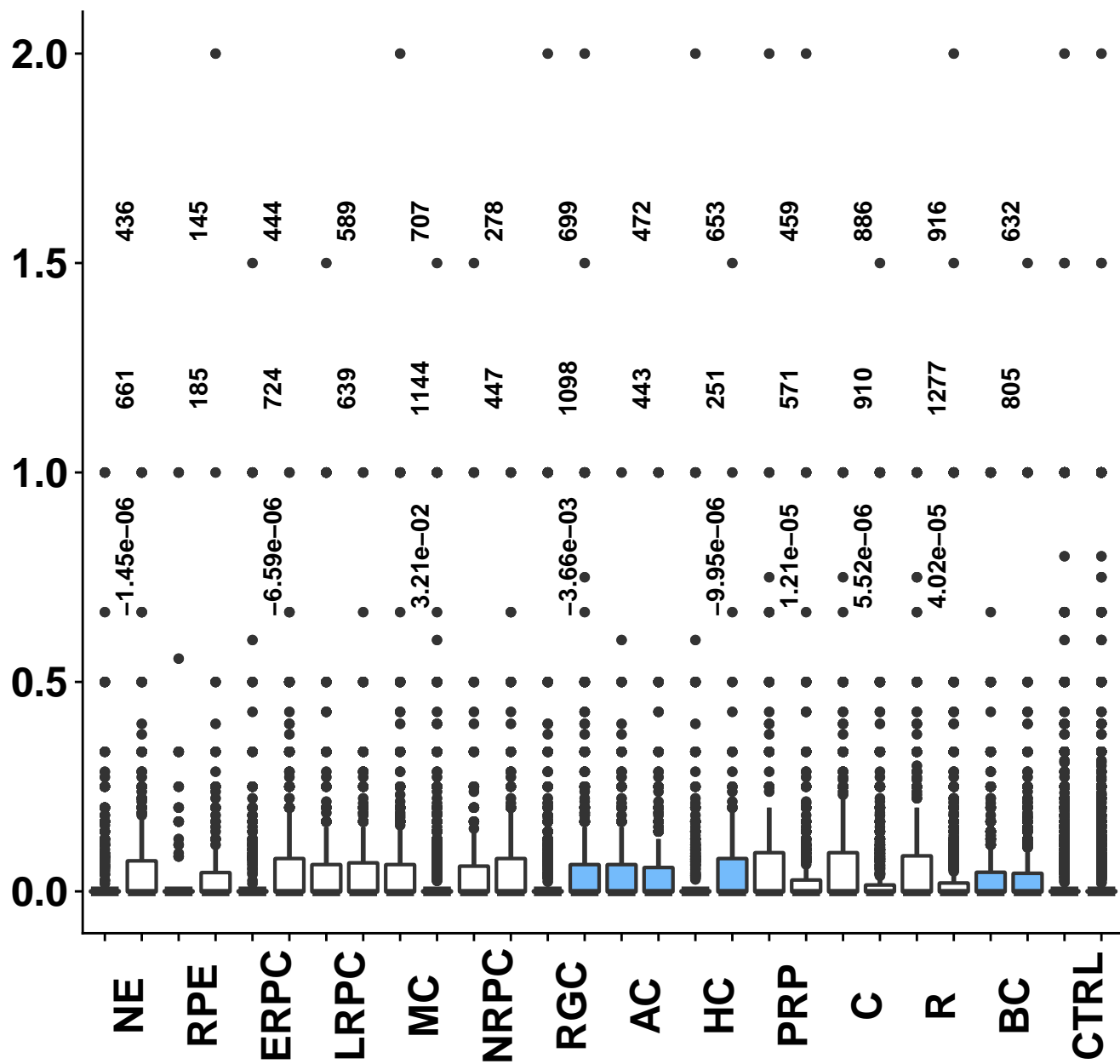
Rbpj_2_mean



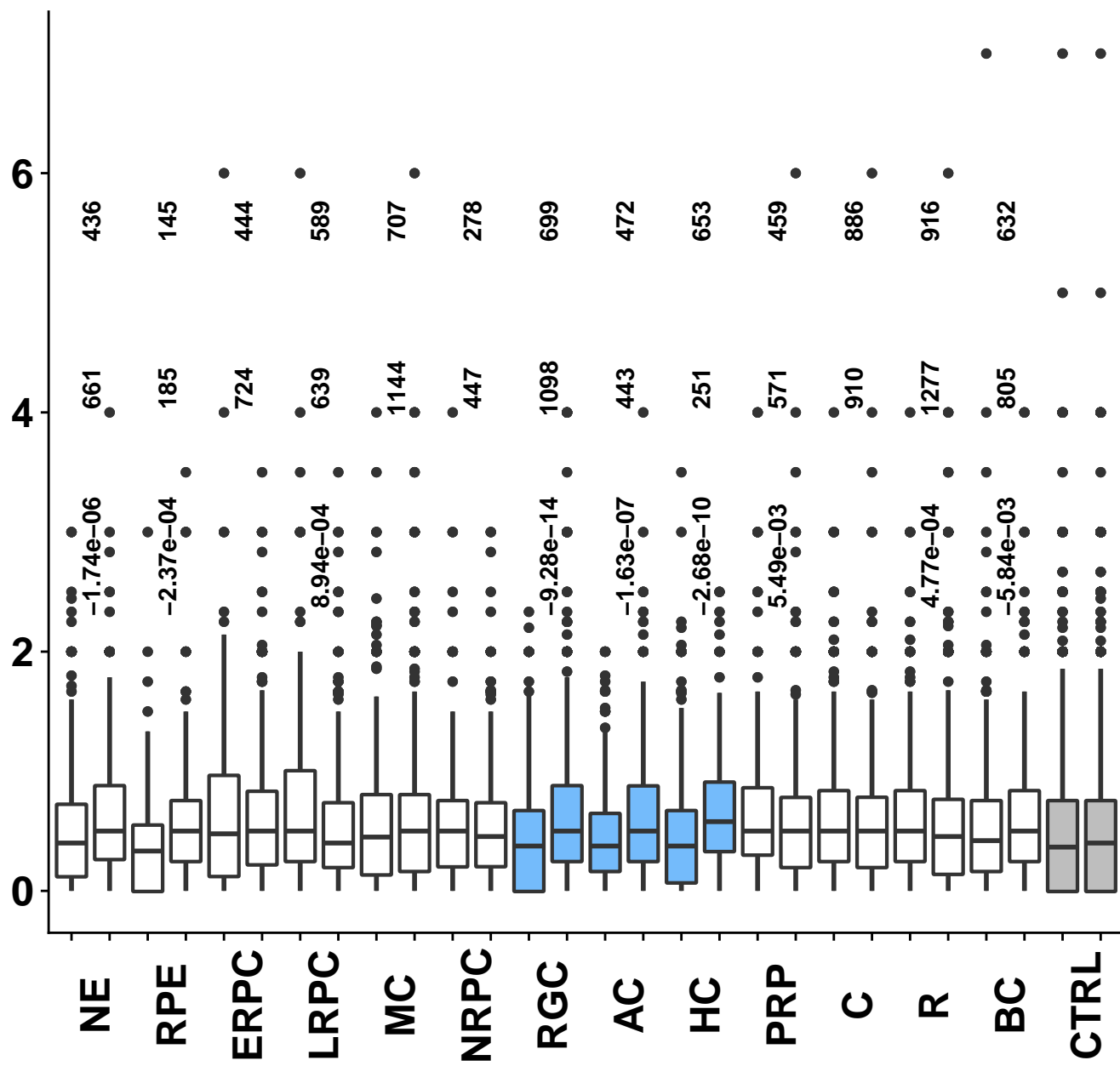
Rbpj_3_mean



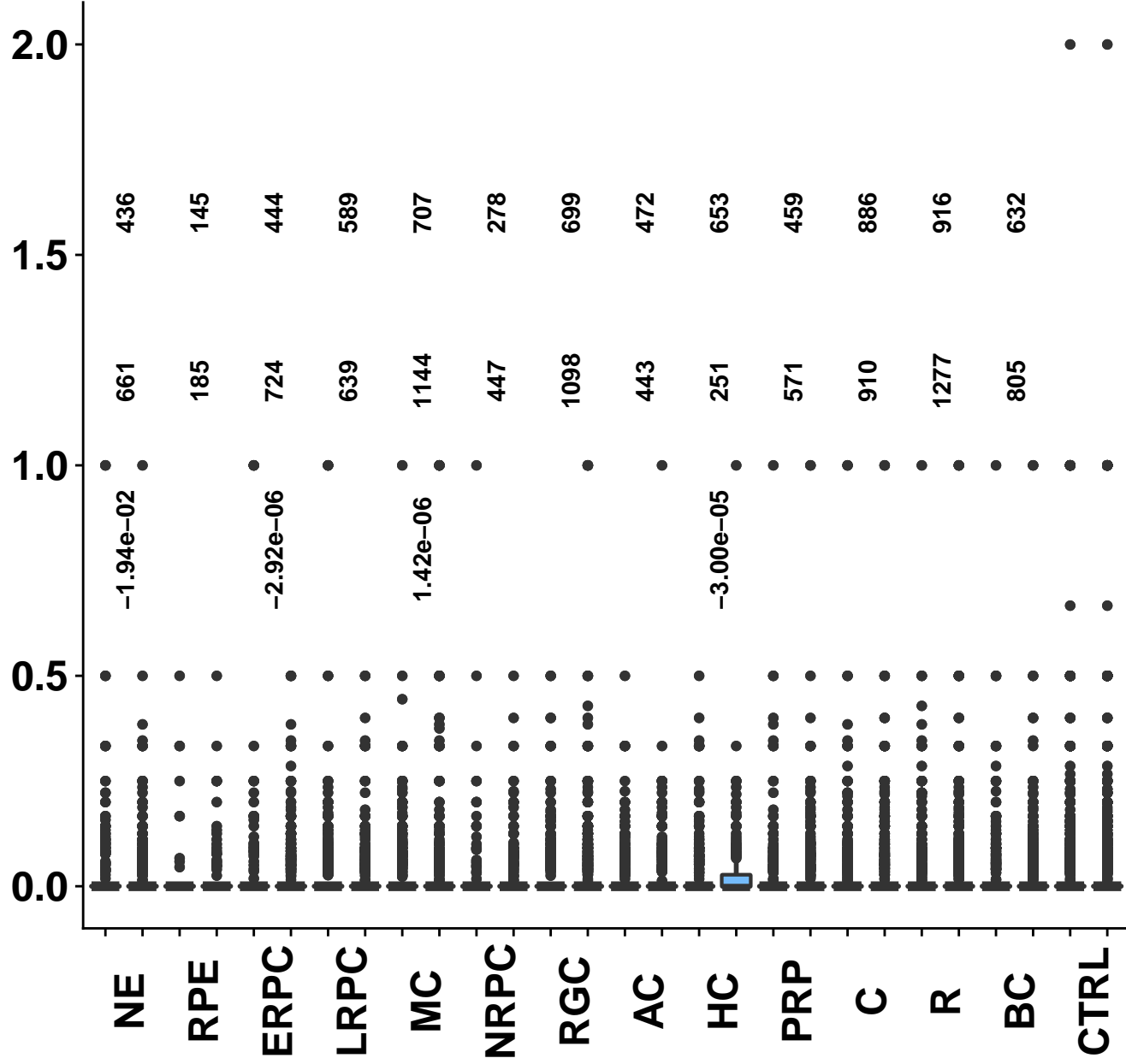
Thra_1_mean



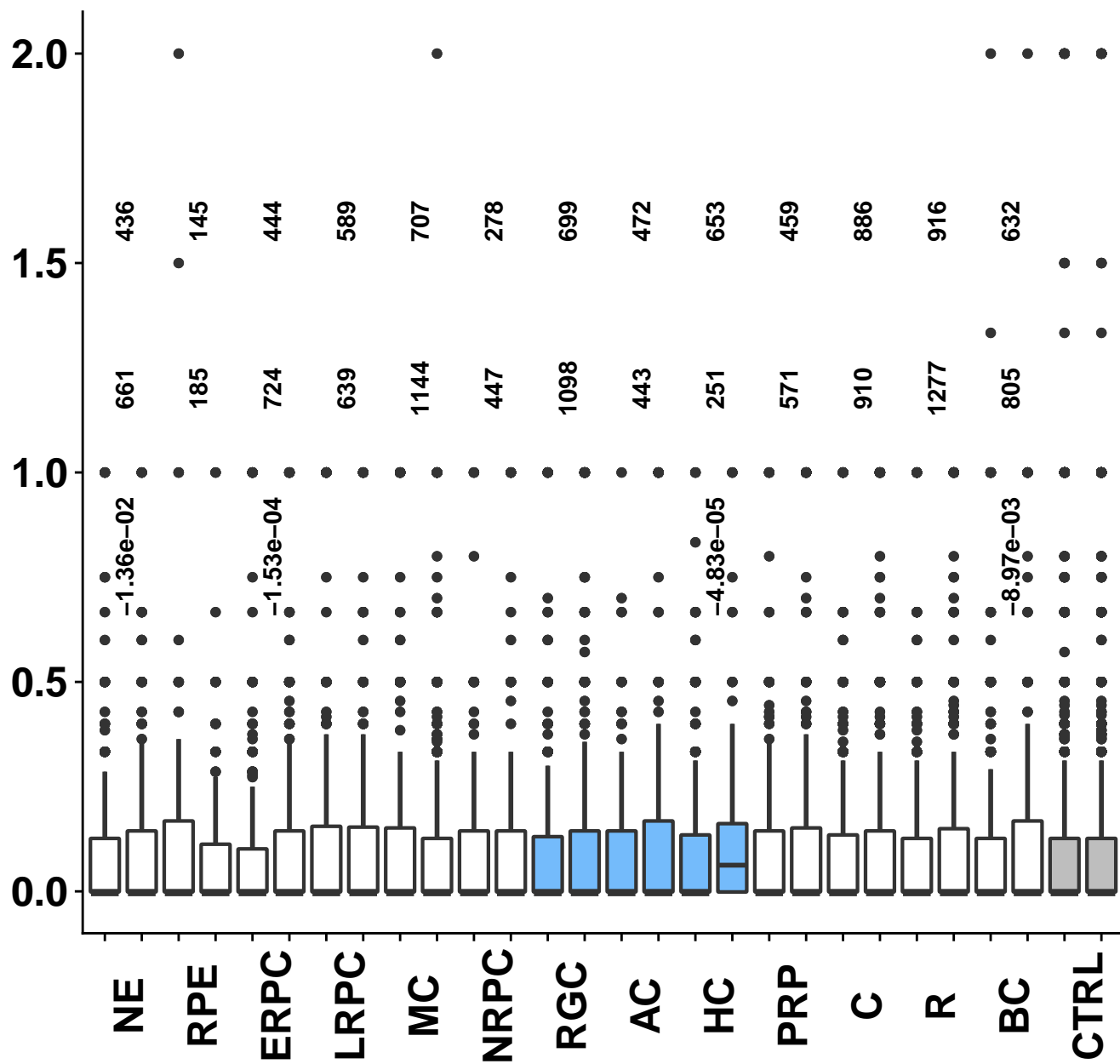
Barhl2_1_mean



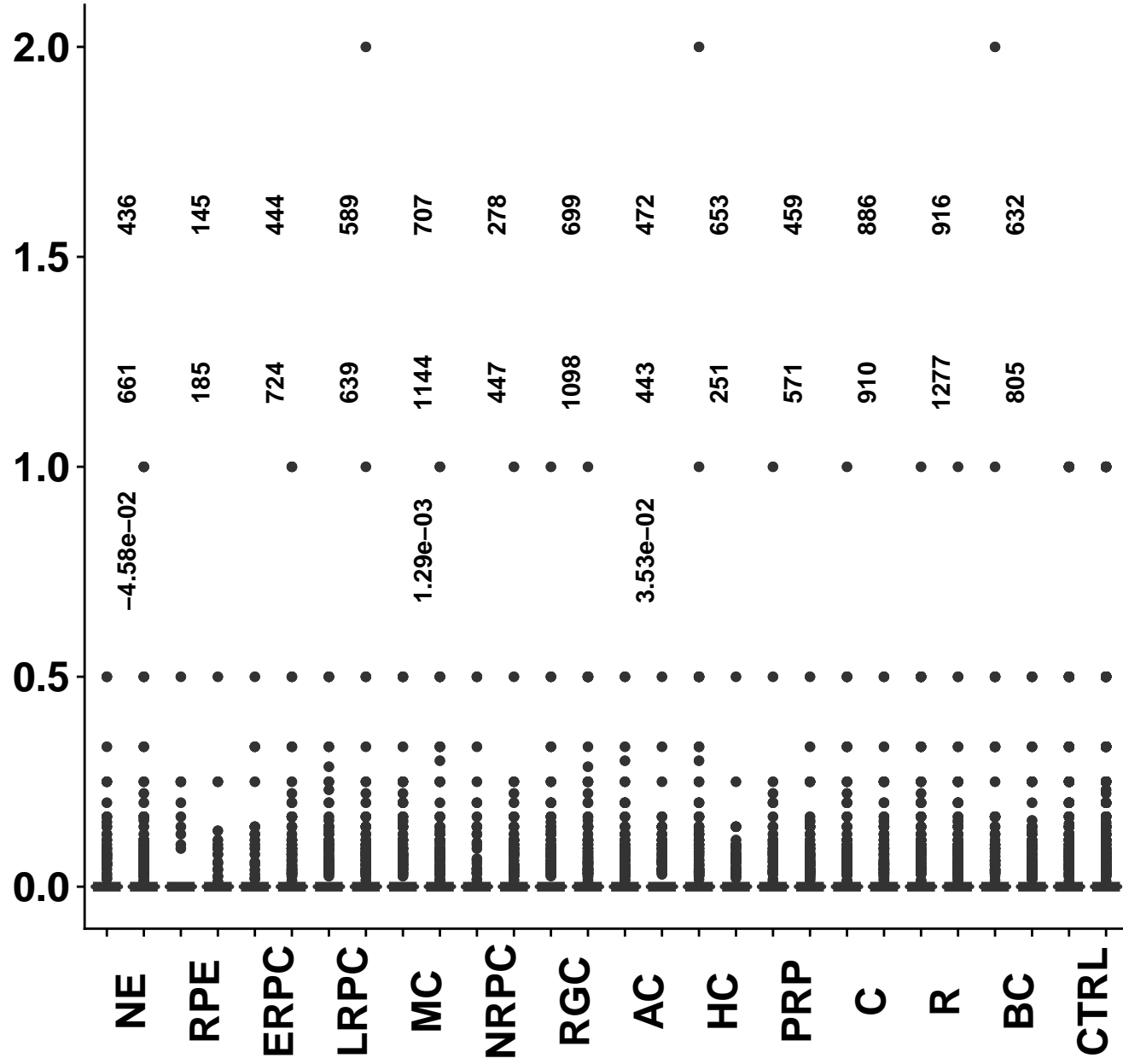
Barhl2_2_mean



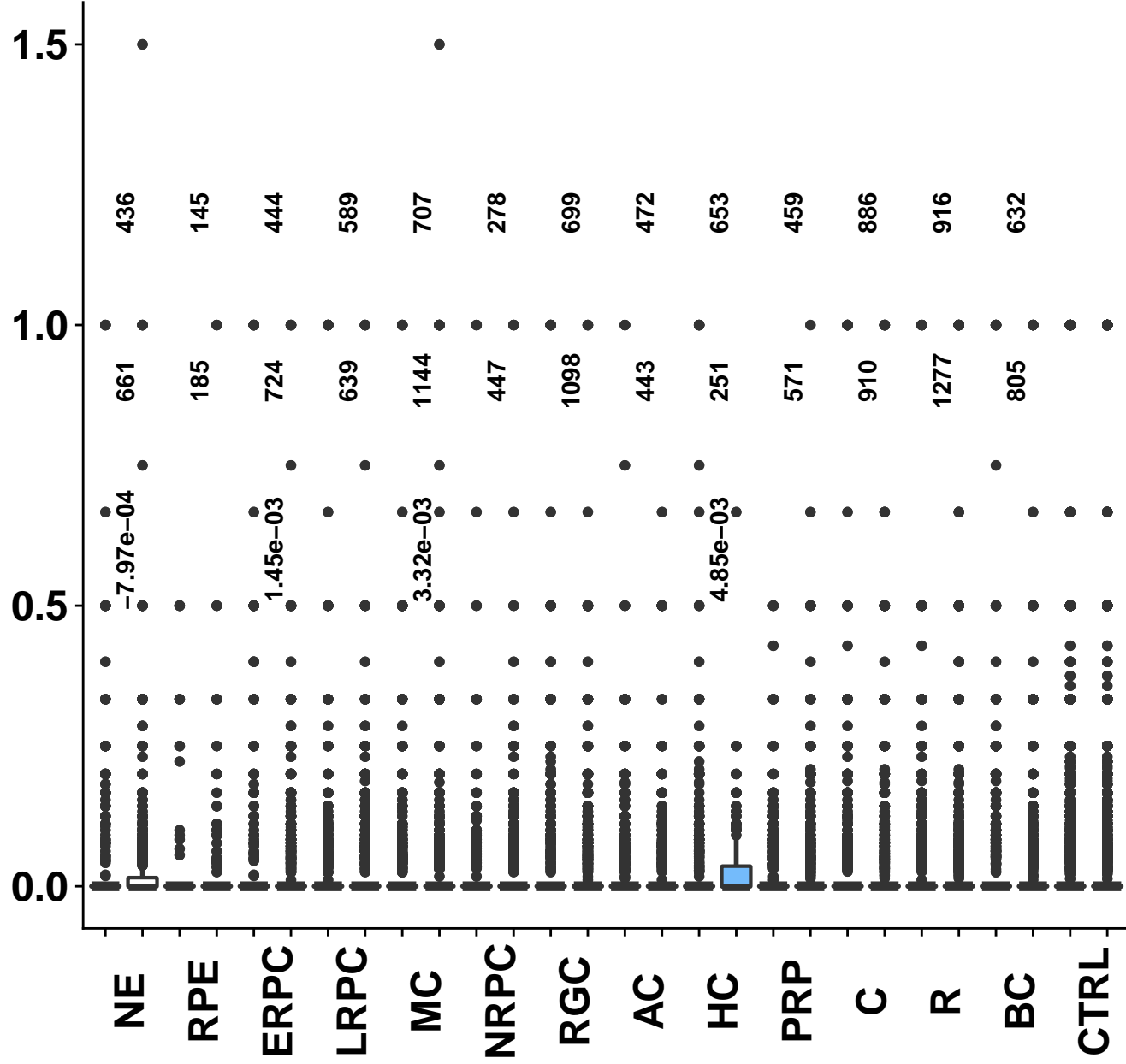
Bcl11a_1_mean



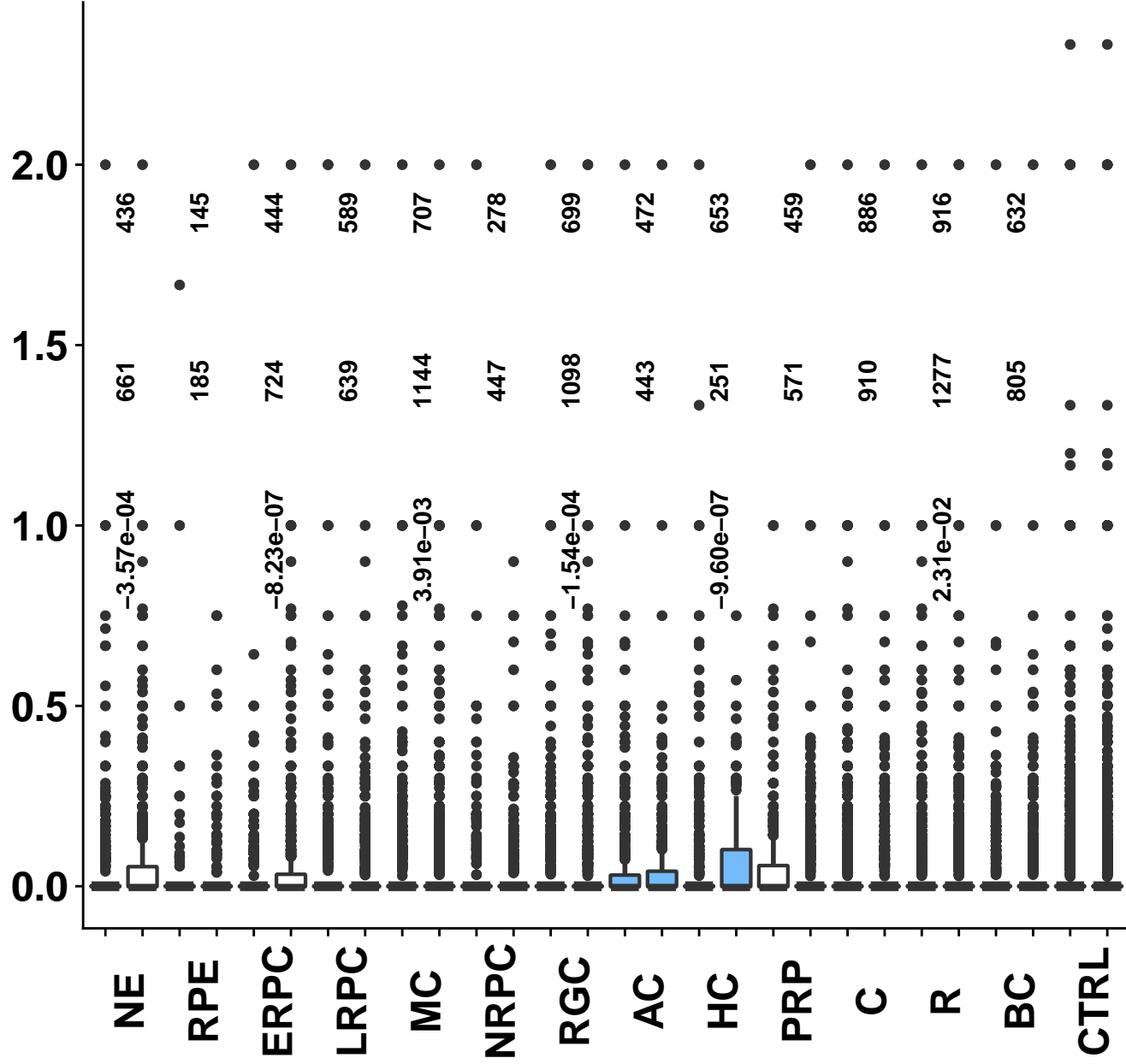
Pax6_1_mean



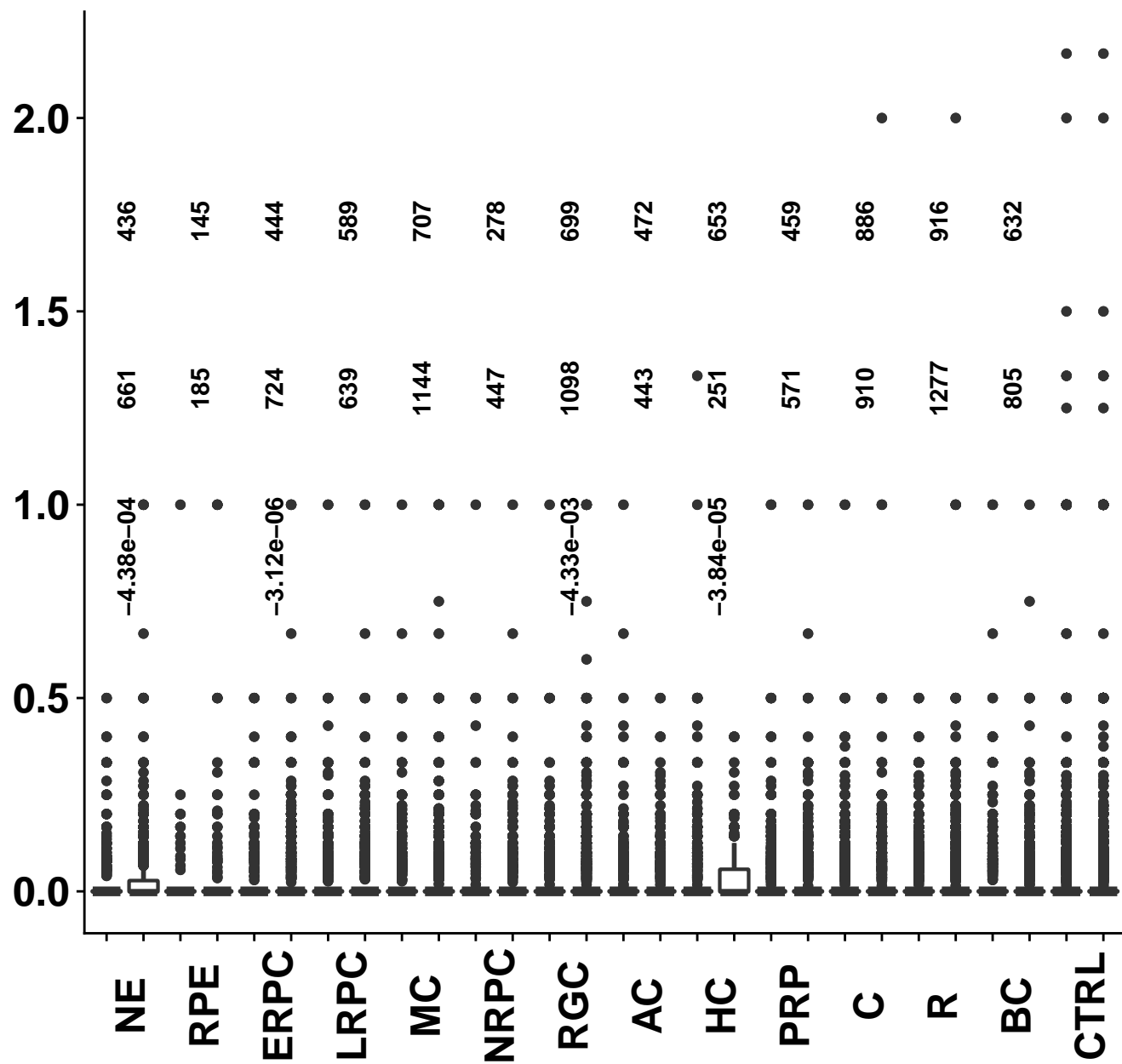
Pax6_2_mean



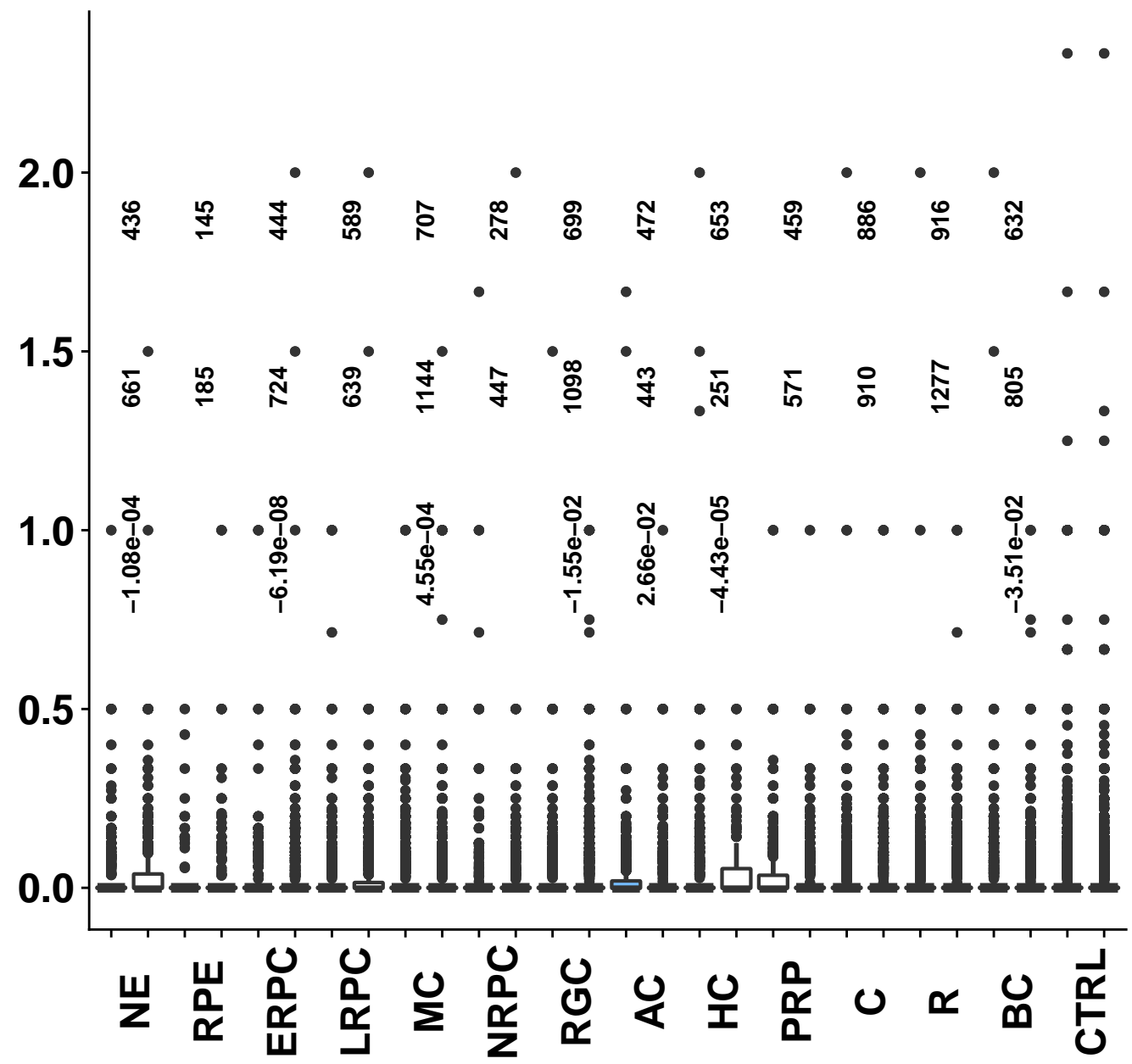
Pax6_3_mean



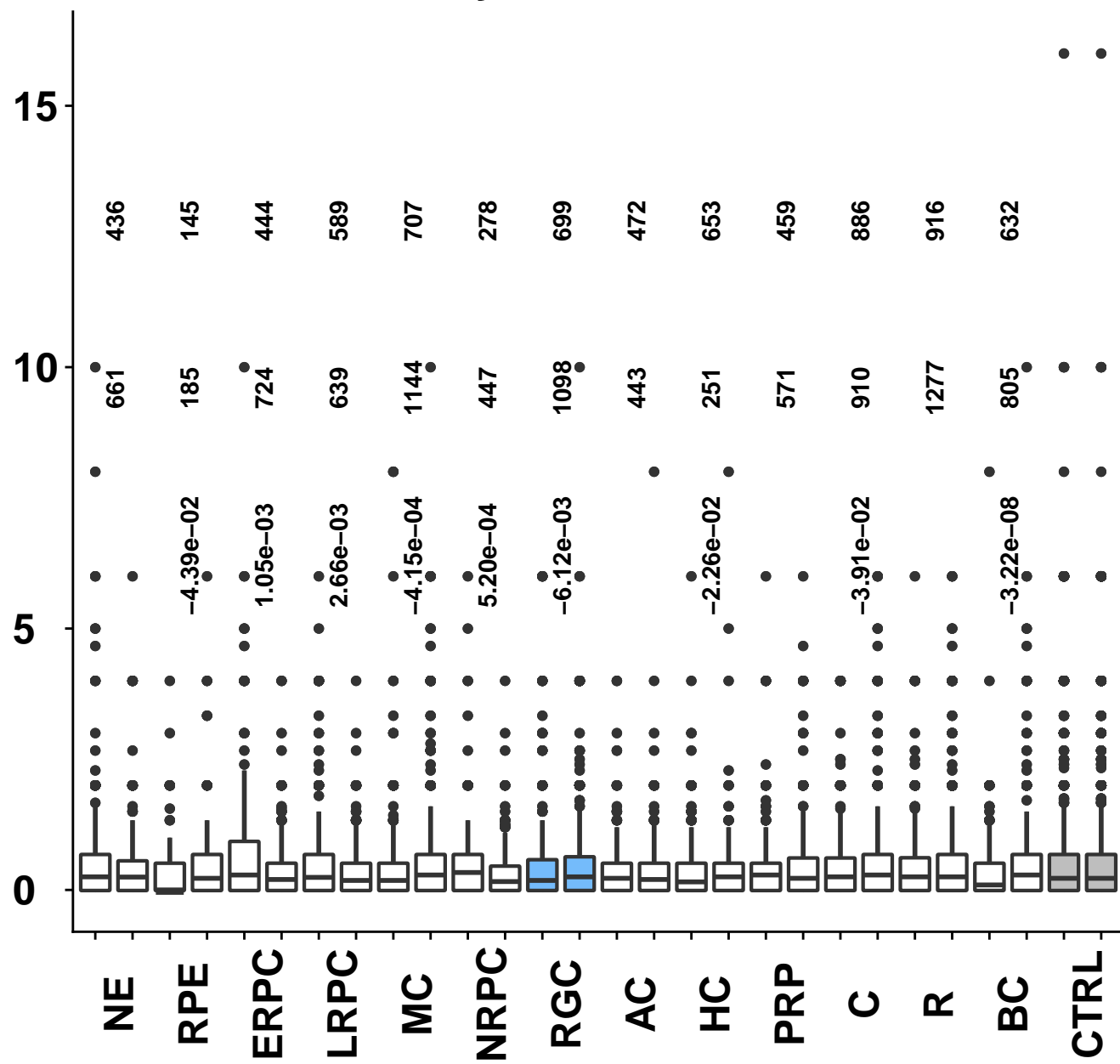
Pou2f2_1_mean



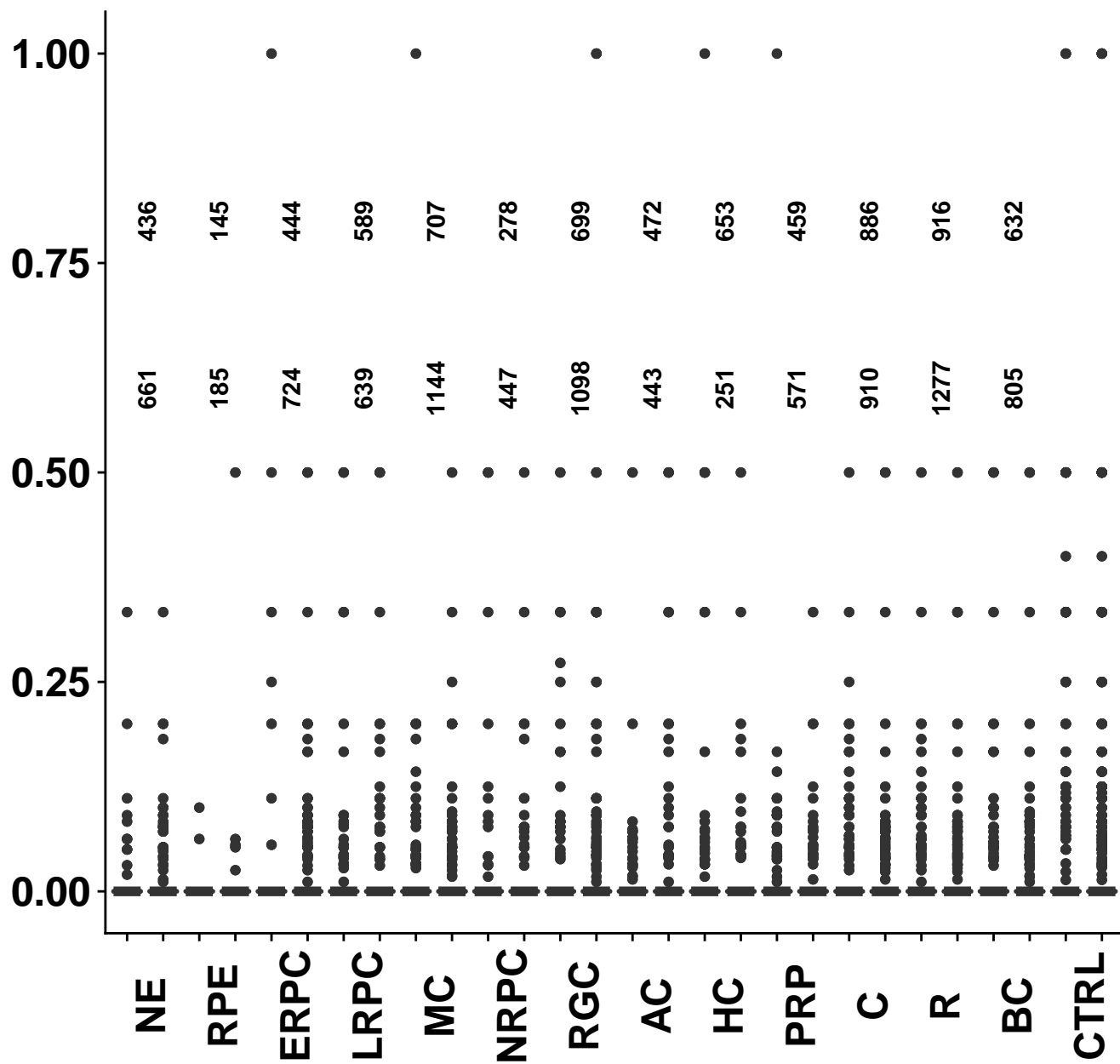
Pou2f2_2_mean



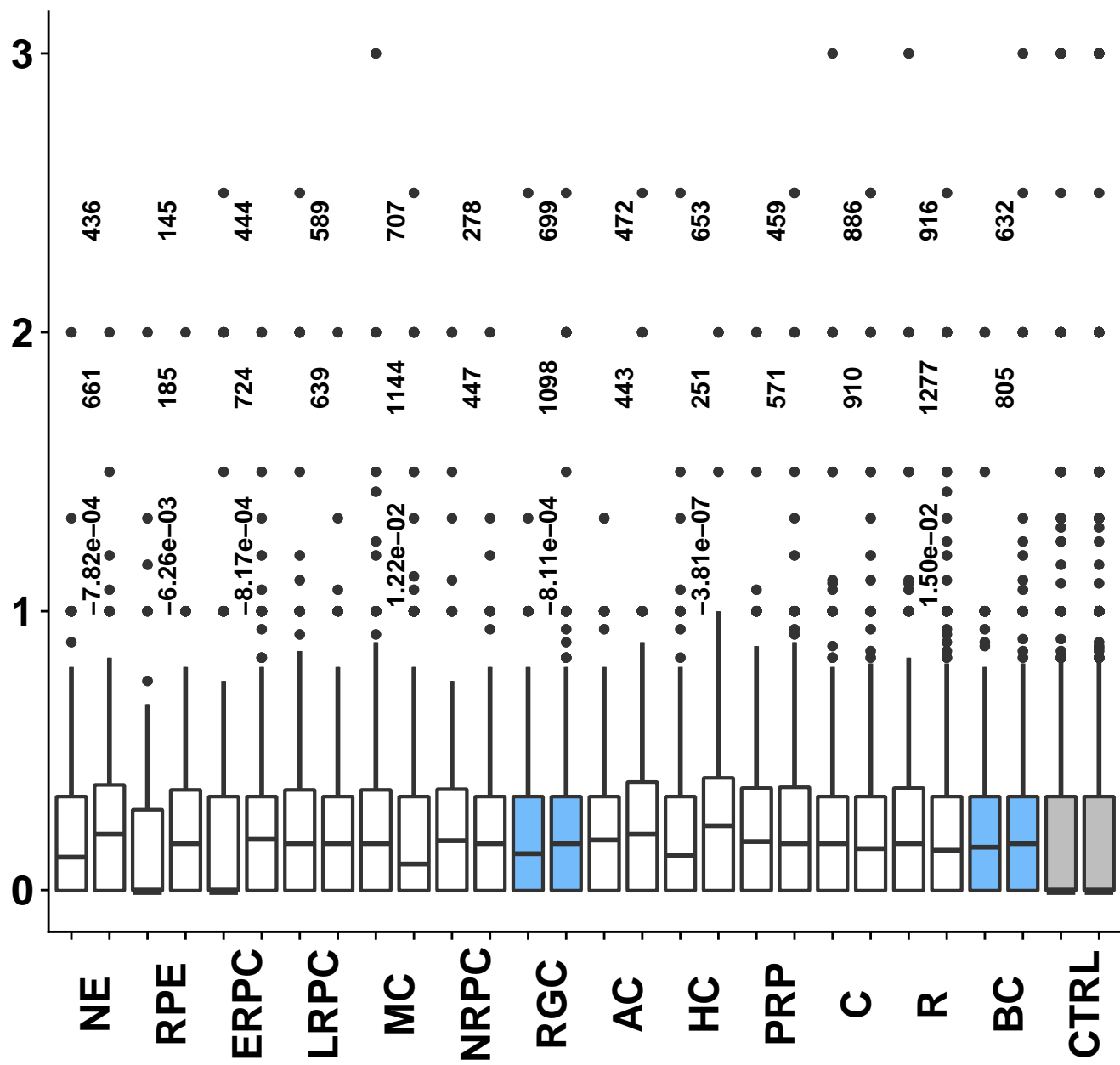
Mycn_1_mean



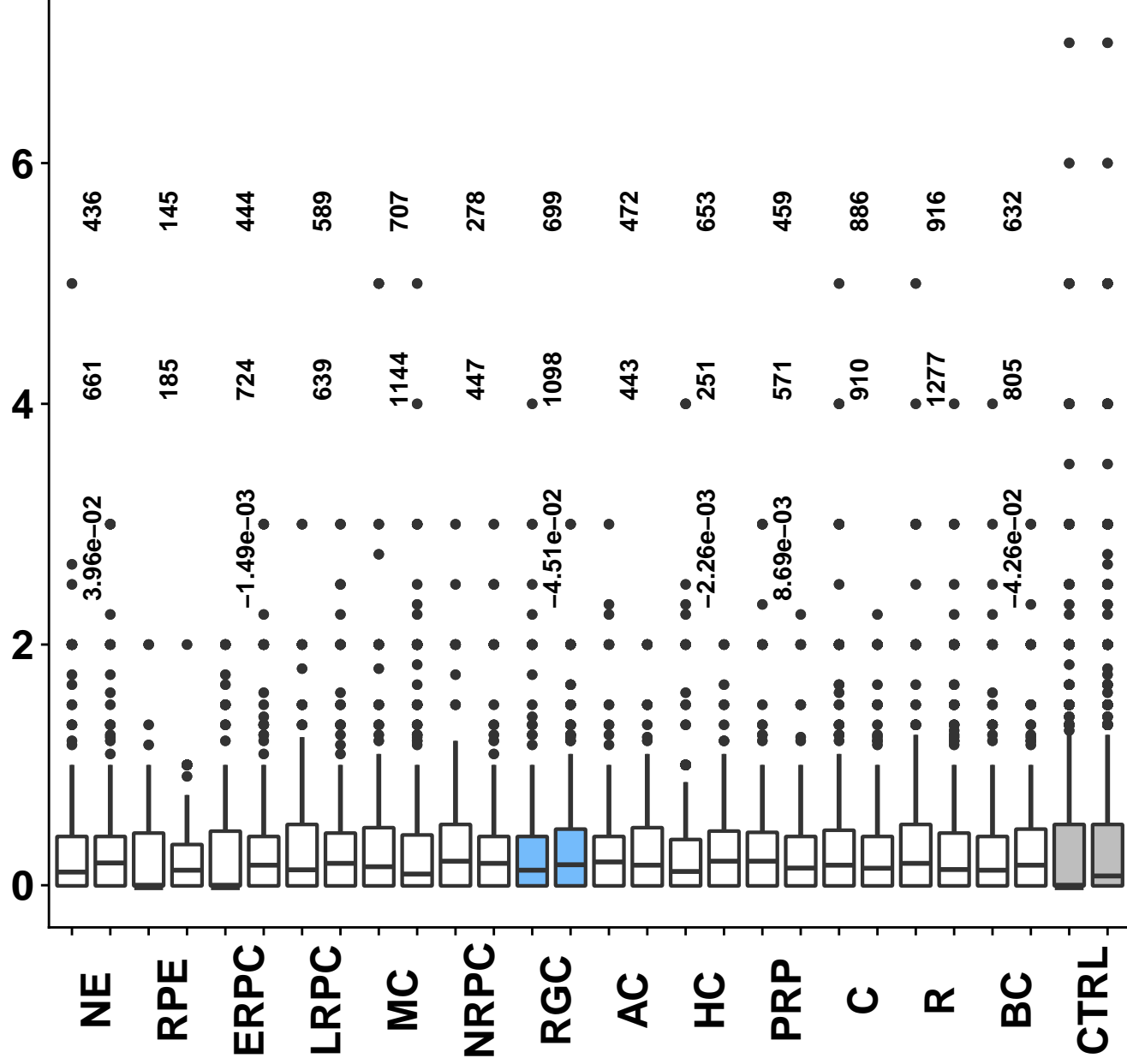
Onecut2_1_mean



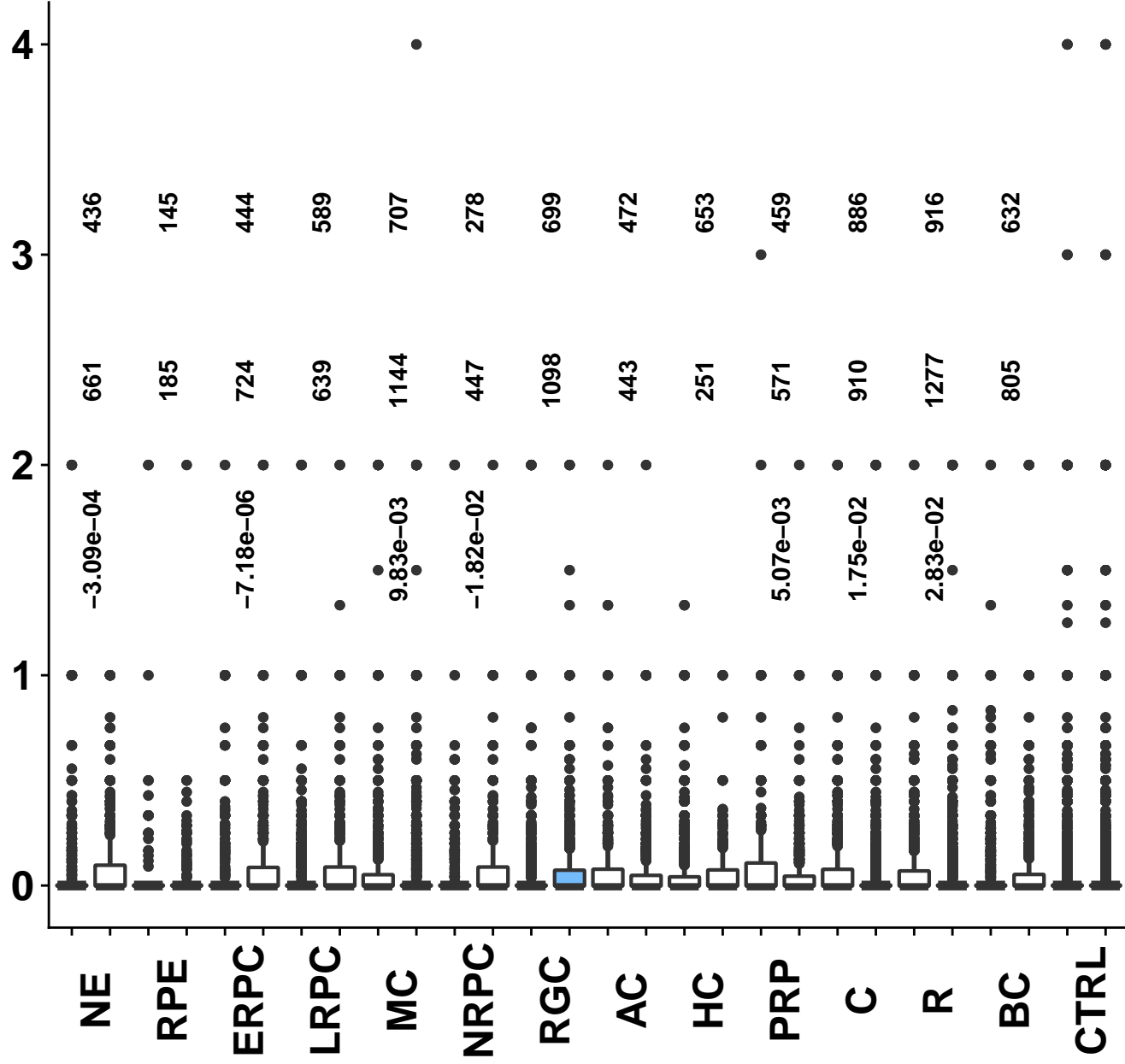
Isl1_1_mean

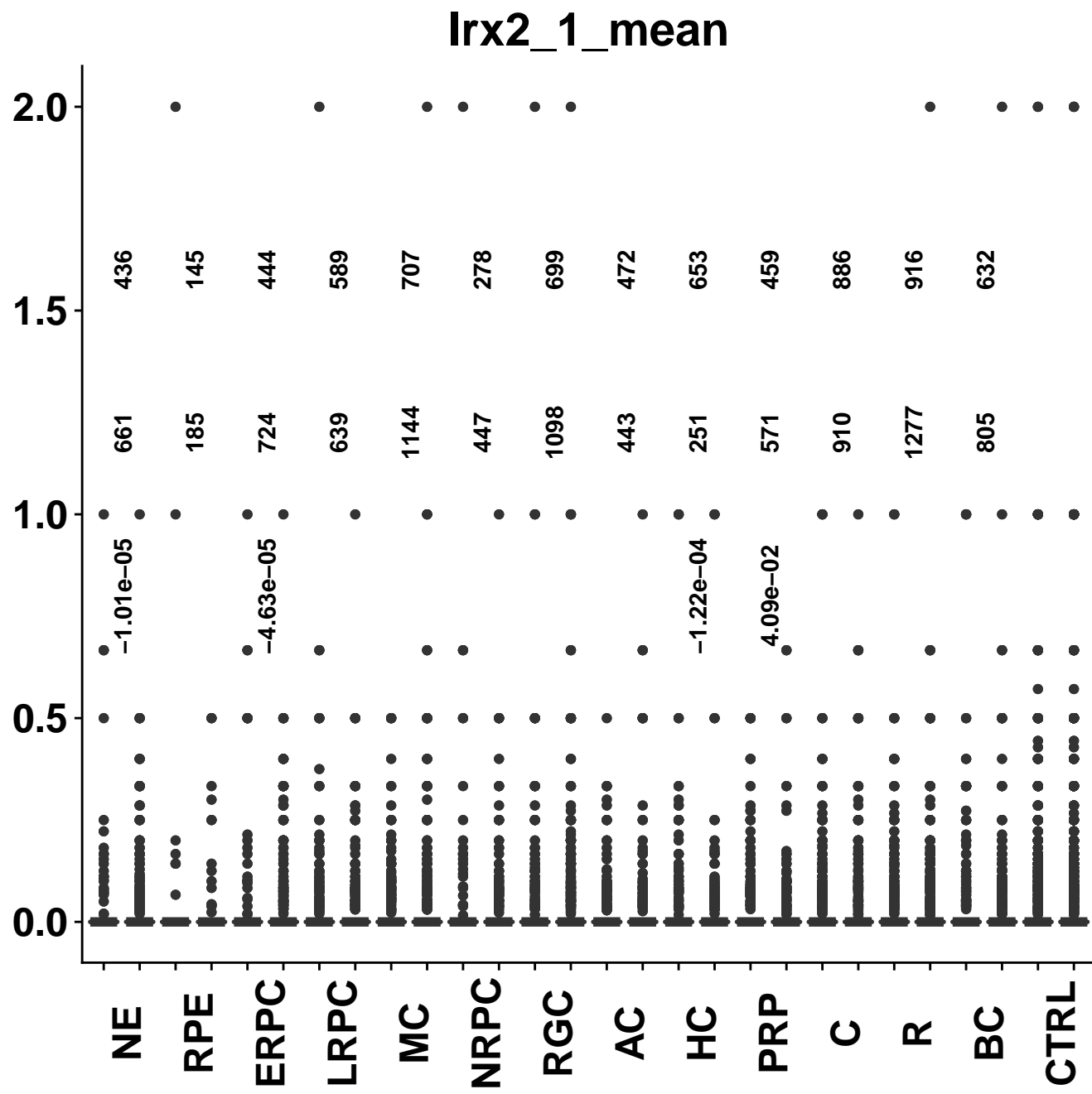


Ebf1_1_mean

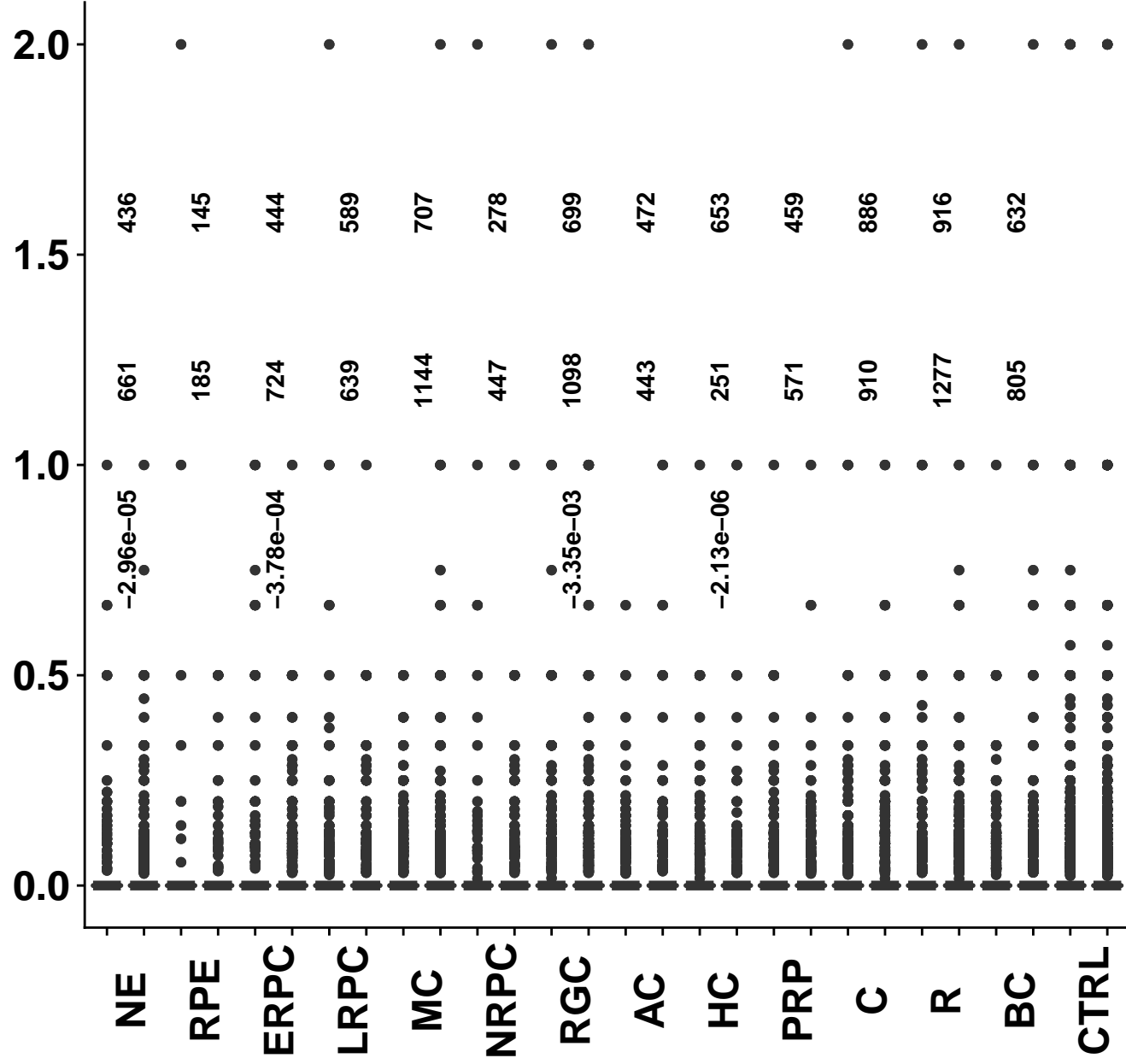


Ebf1_3_mean

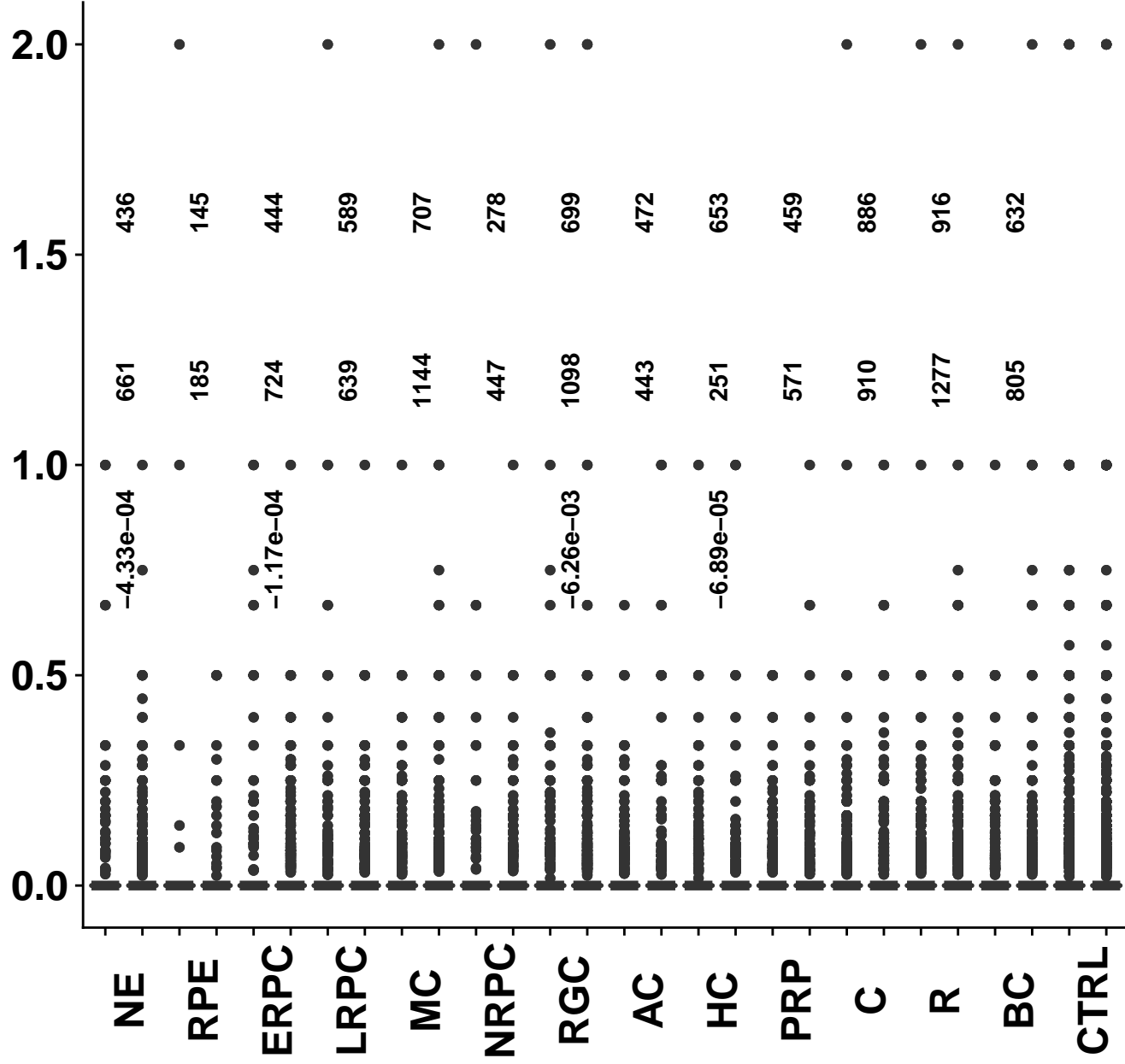




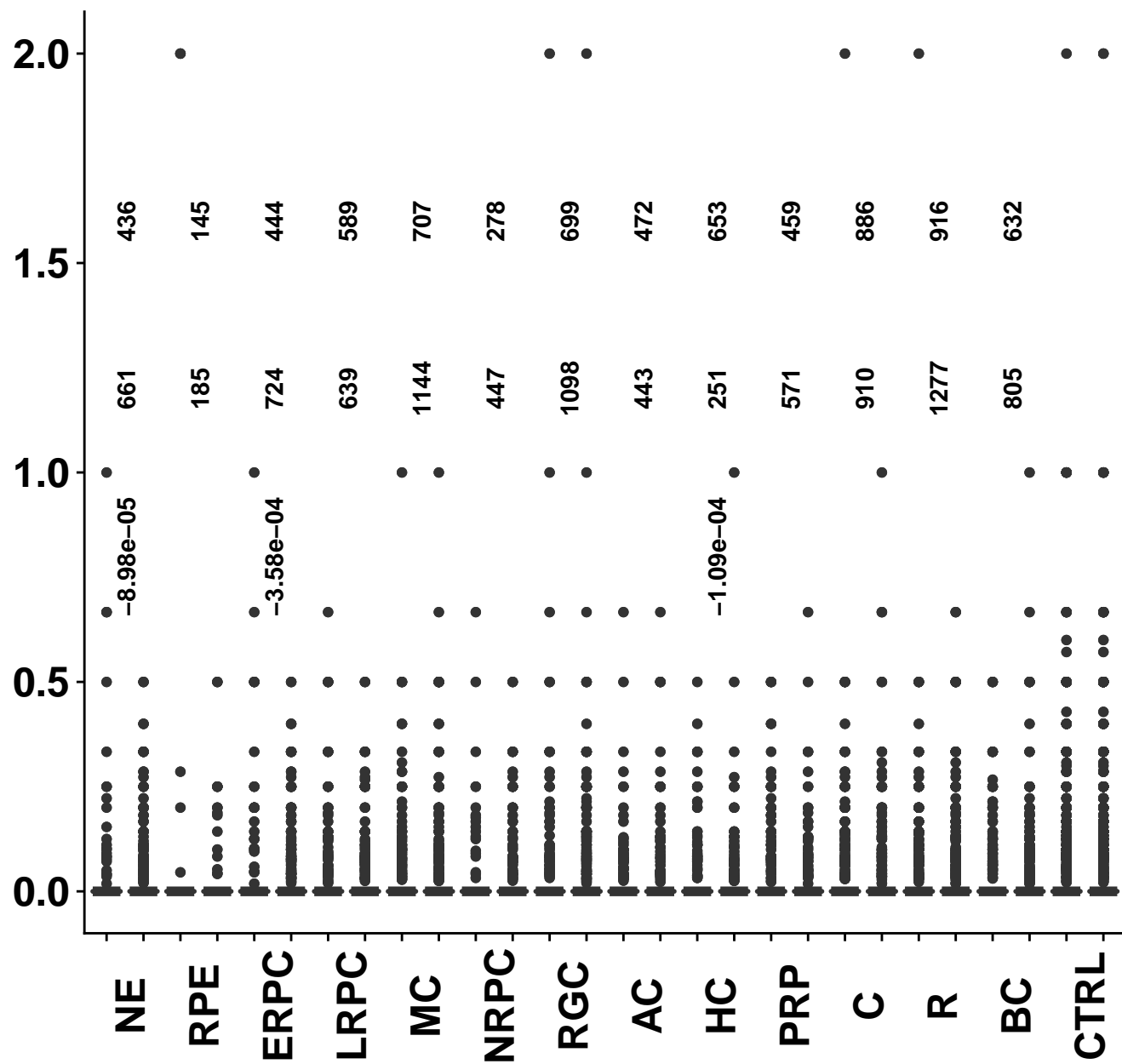
lrx3_1_mean



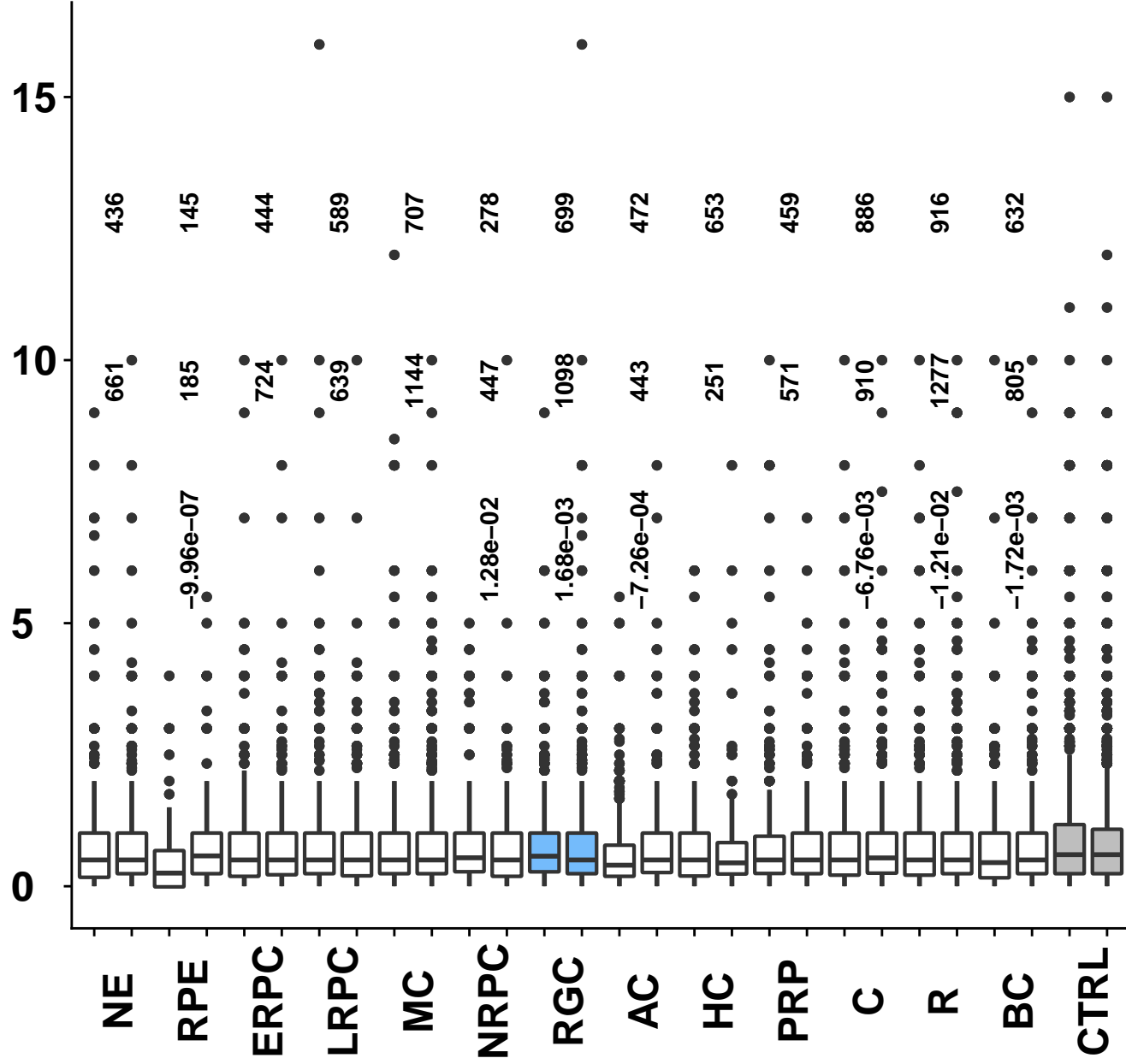
lrx3_2_mean



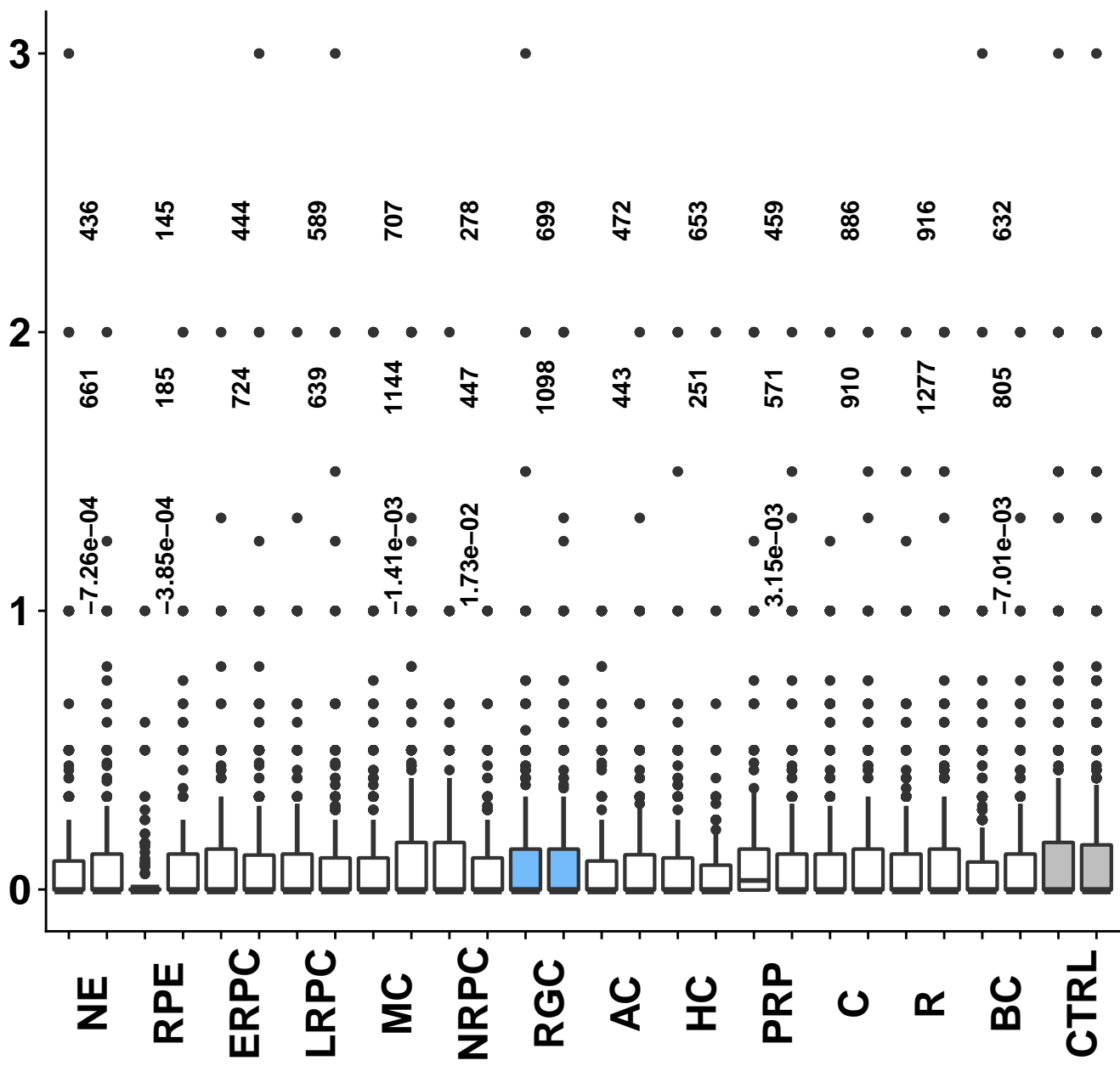
lrx6_1_mean



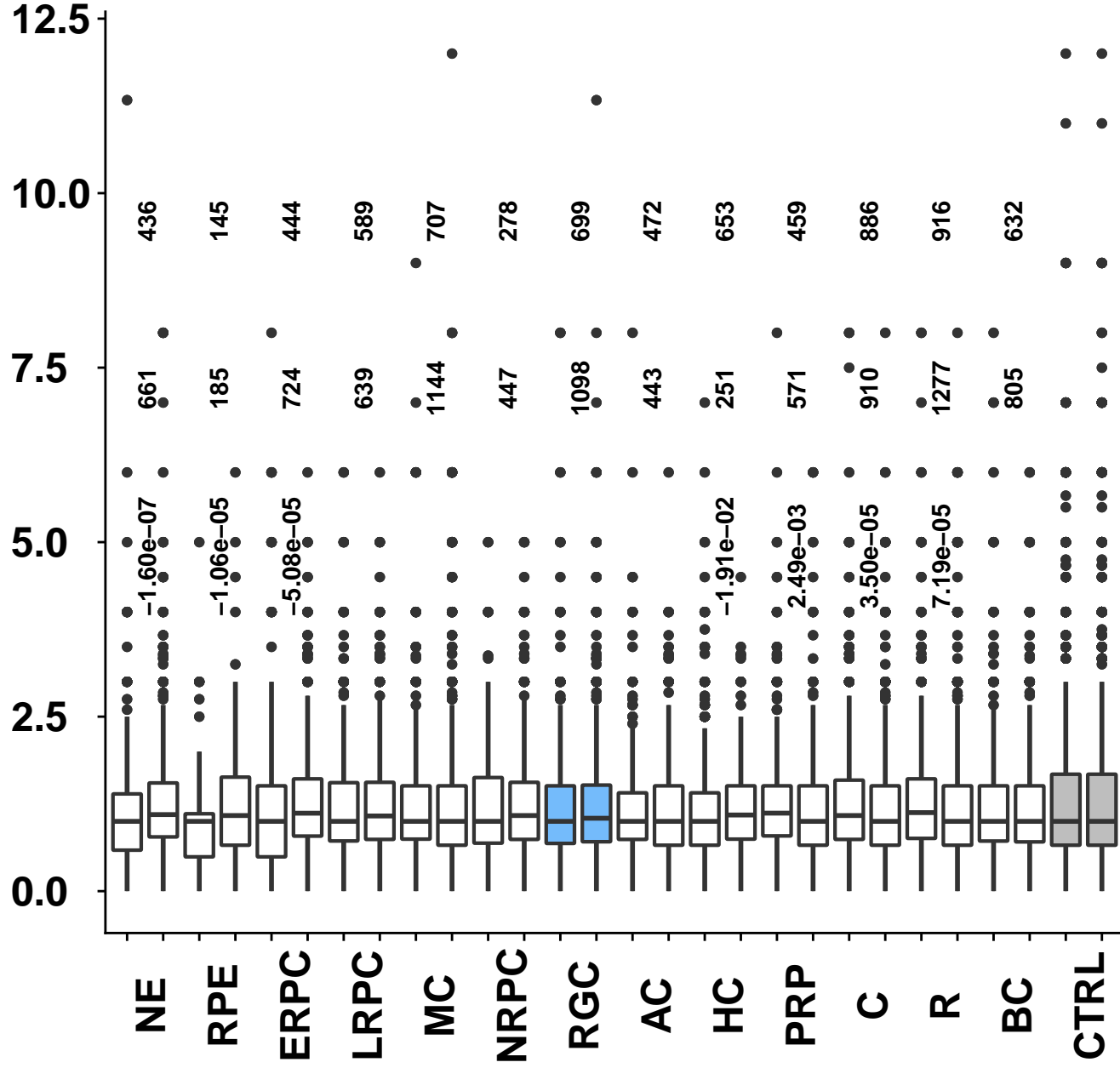
Klf7_1_mean



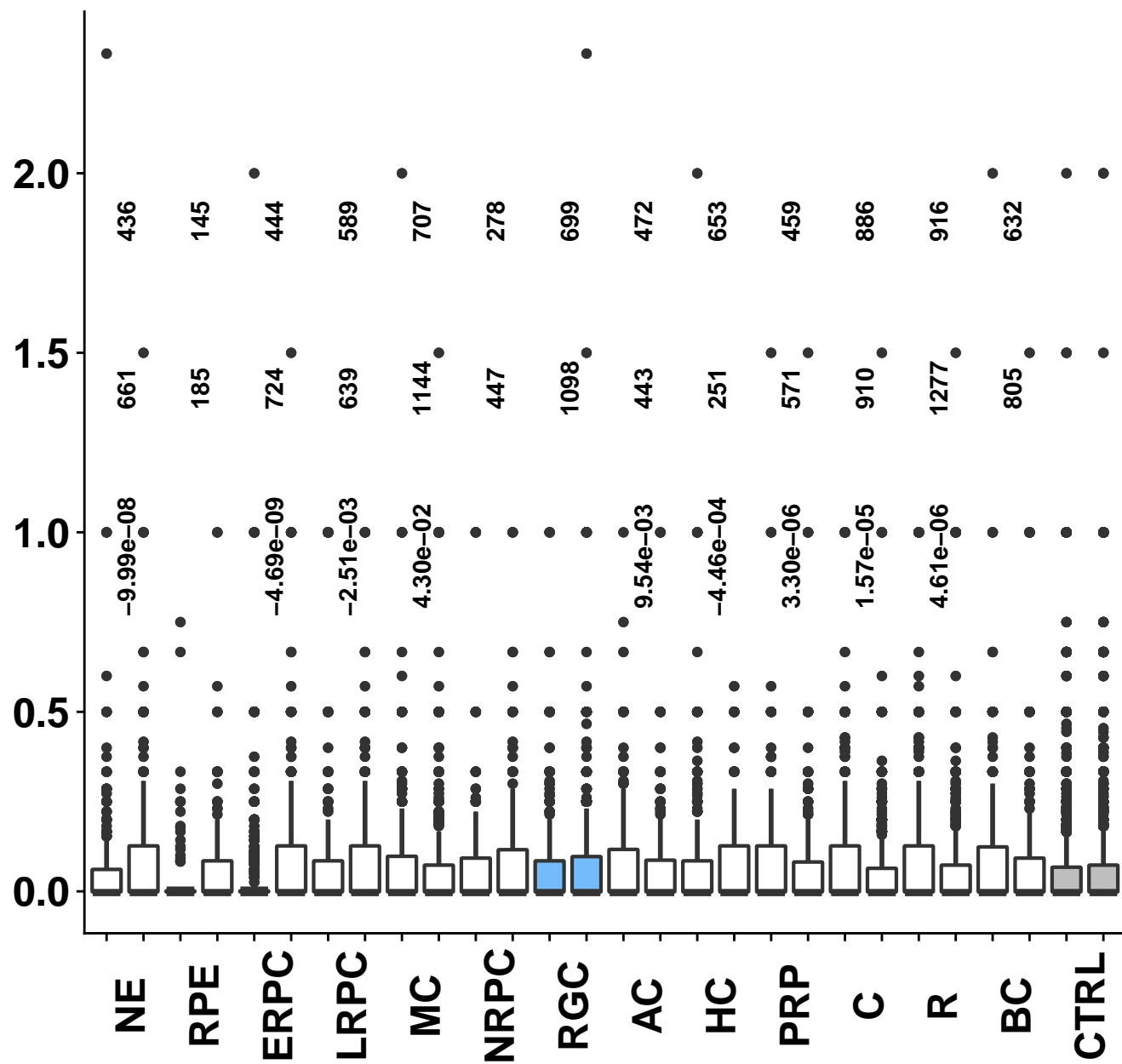
Klf7_2_mean



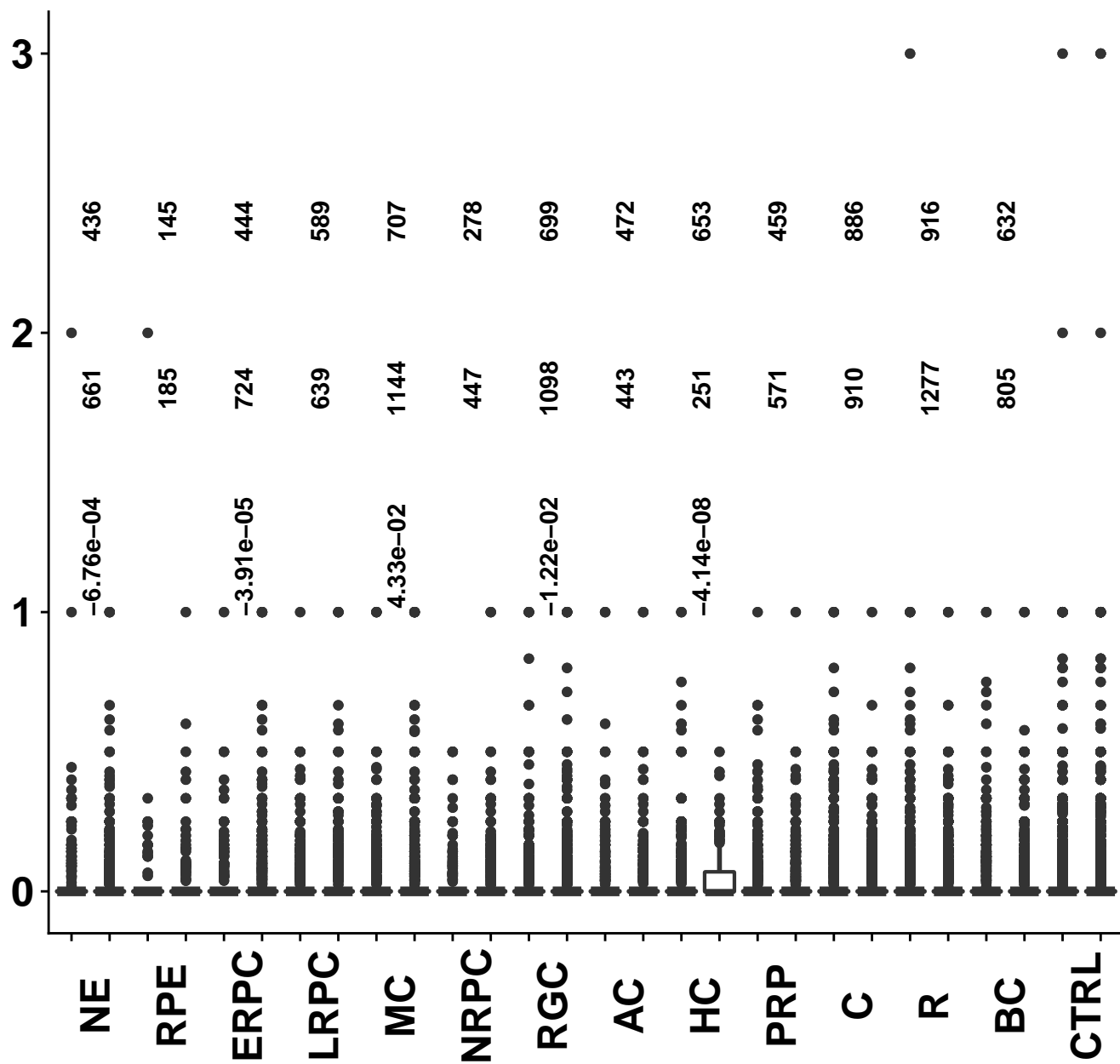
Meis3_1_mean



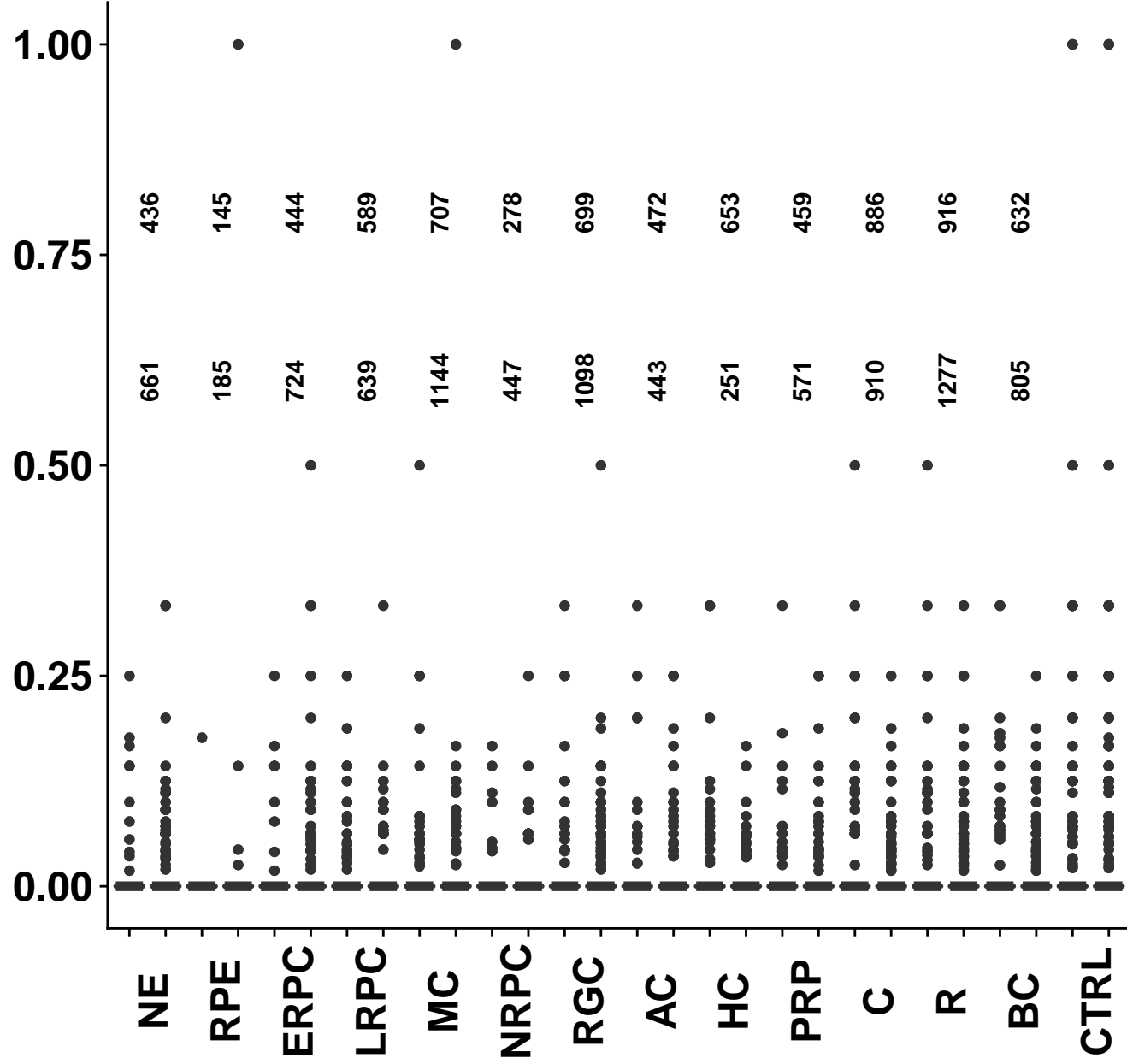
Meis3_2_mean



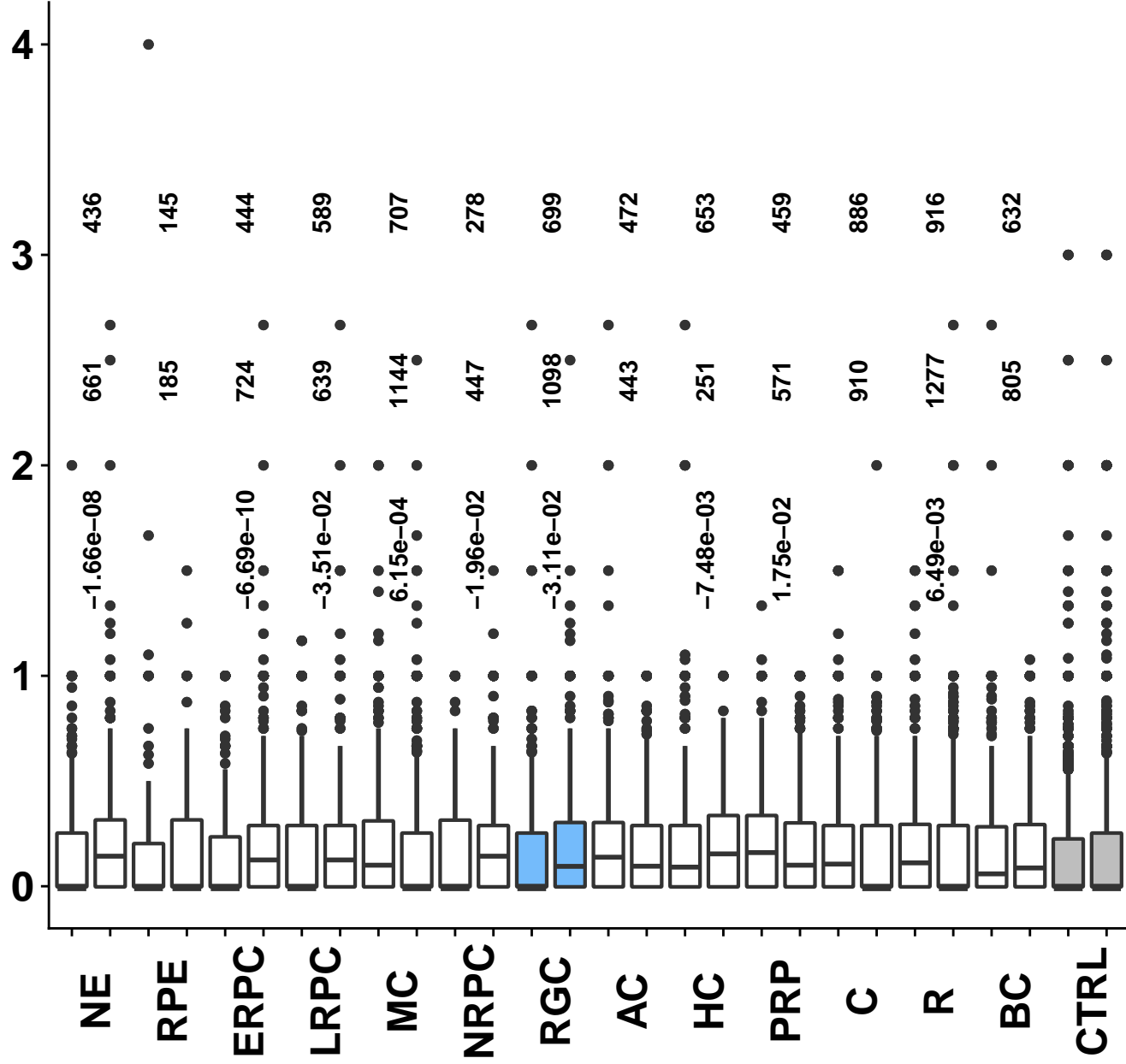
Pou4f1_1_mean



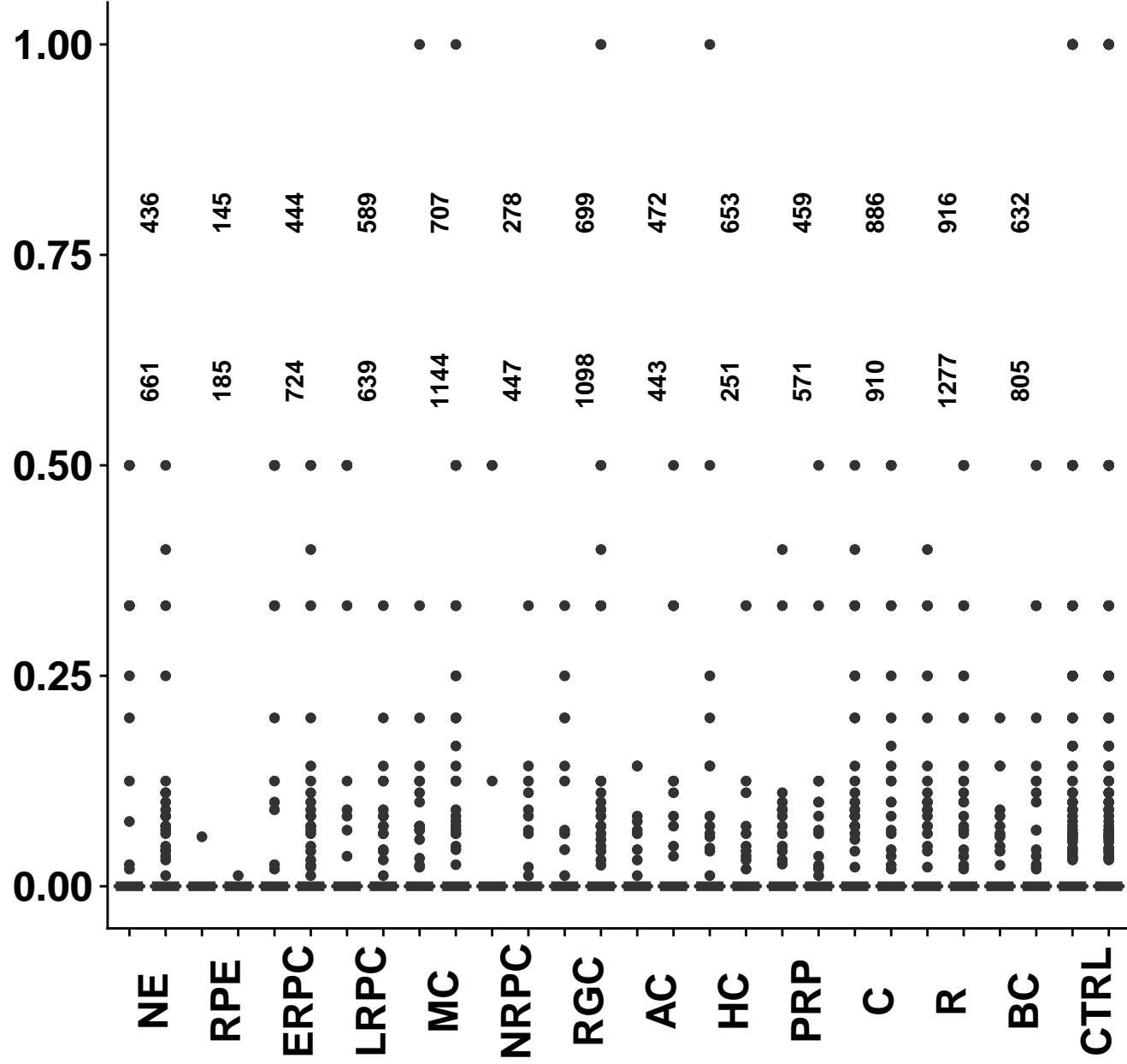
Pou4f2_1_mean



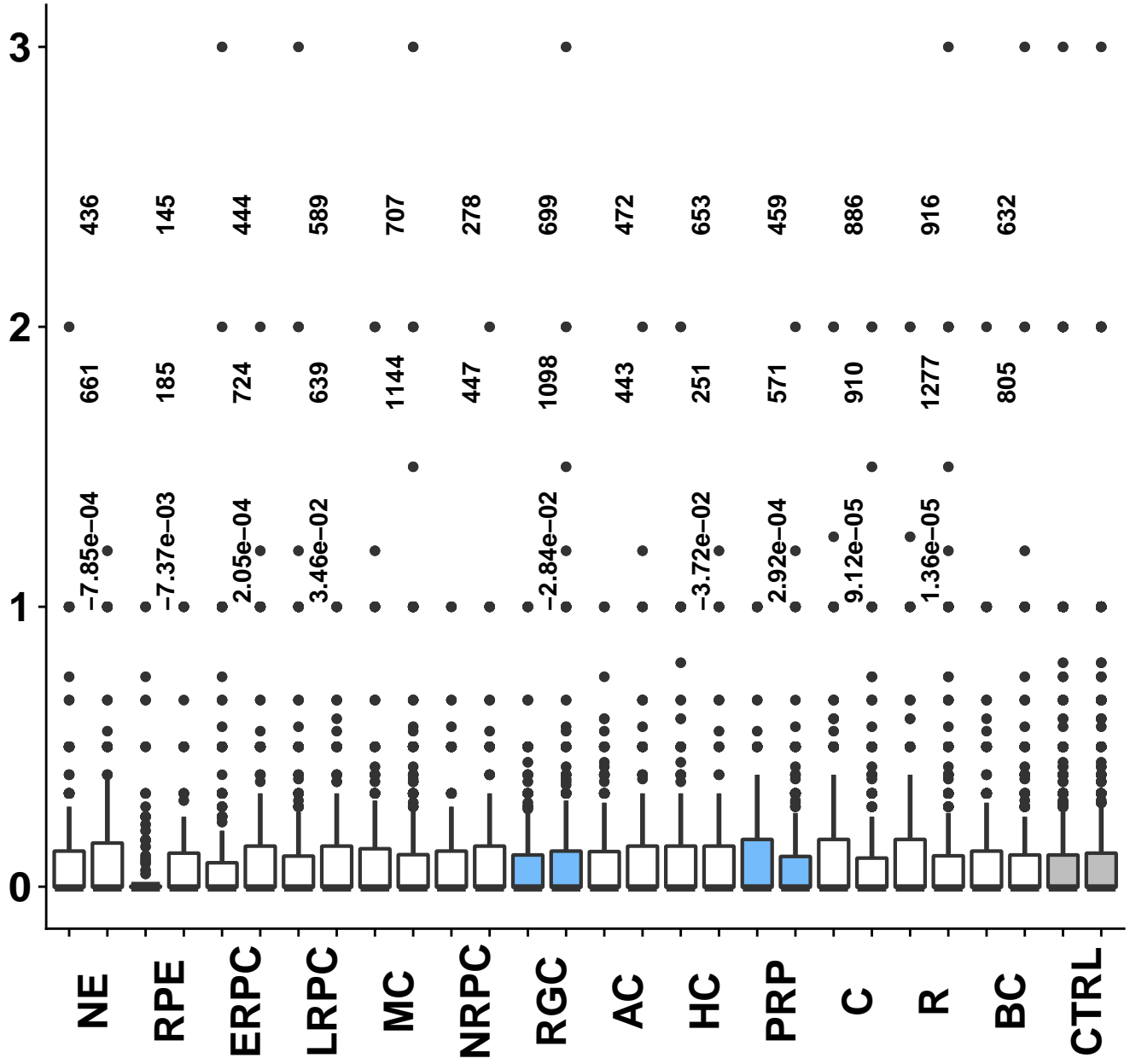
Pou6f2_1_mean



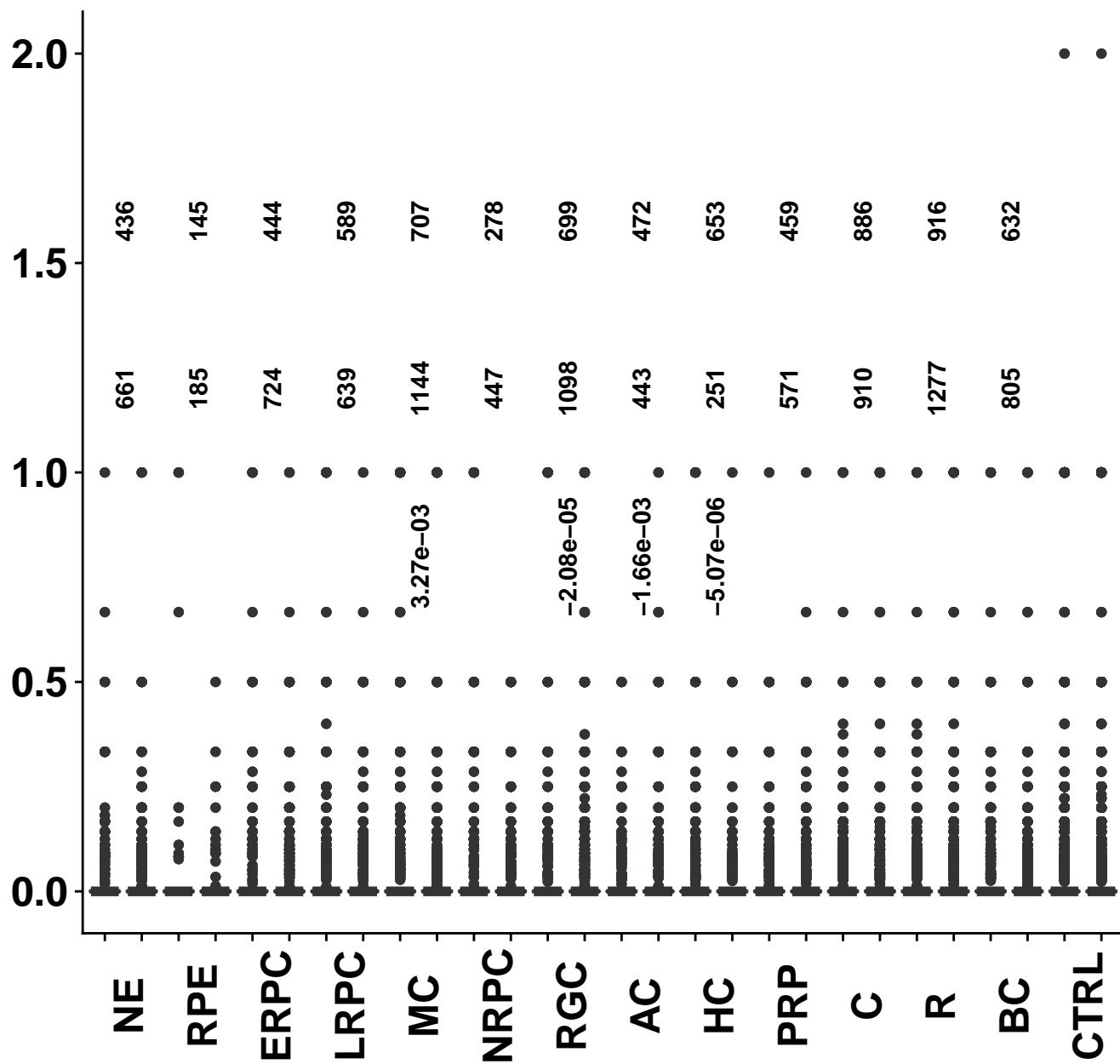
Rxrg_1_mean



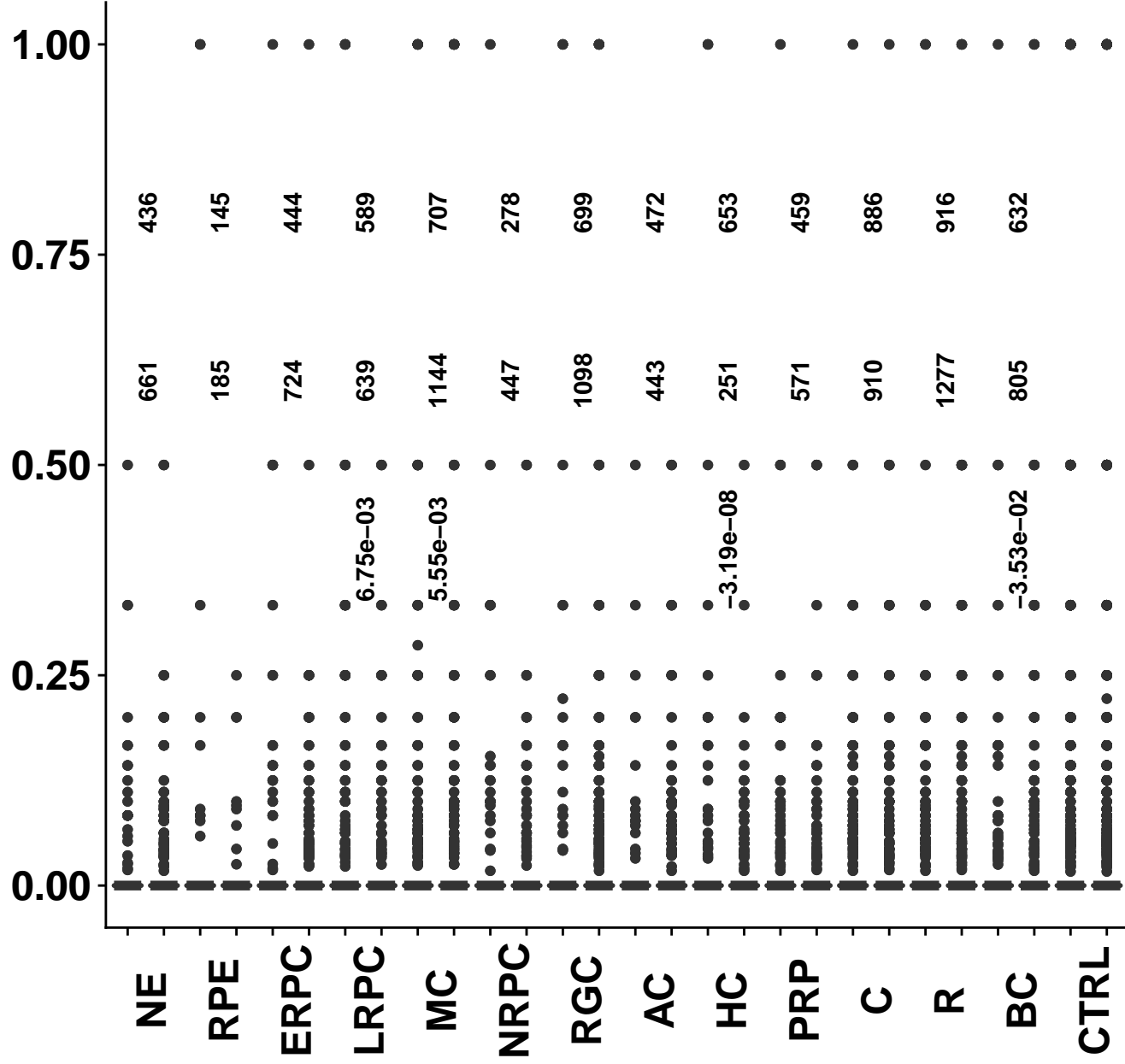
Rxrg_2_mean



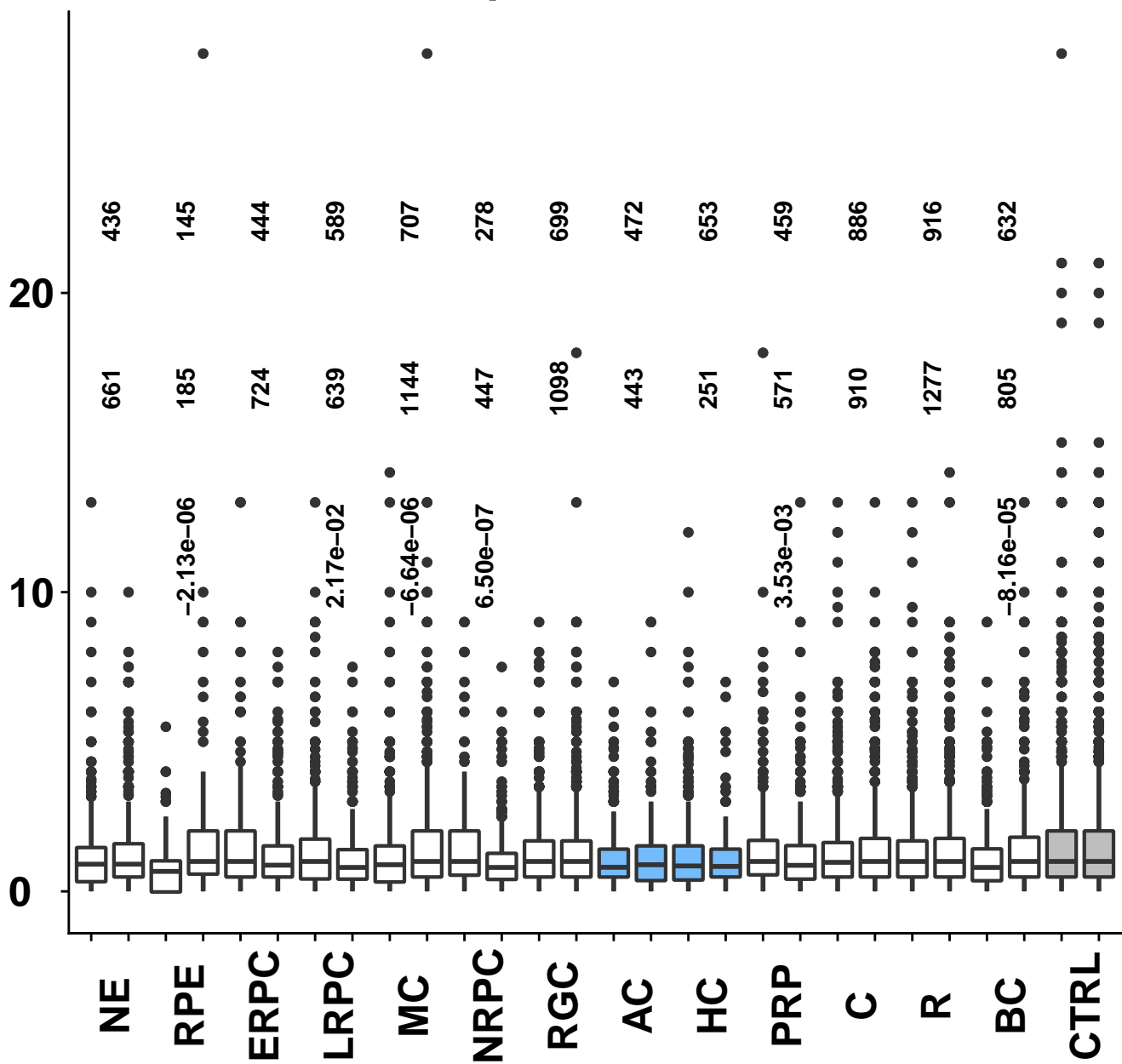
Scrt1_1_mean



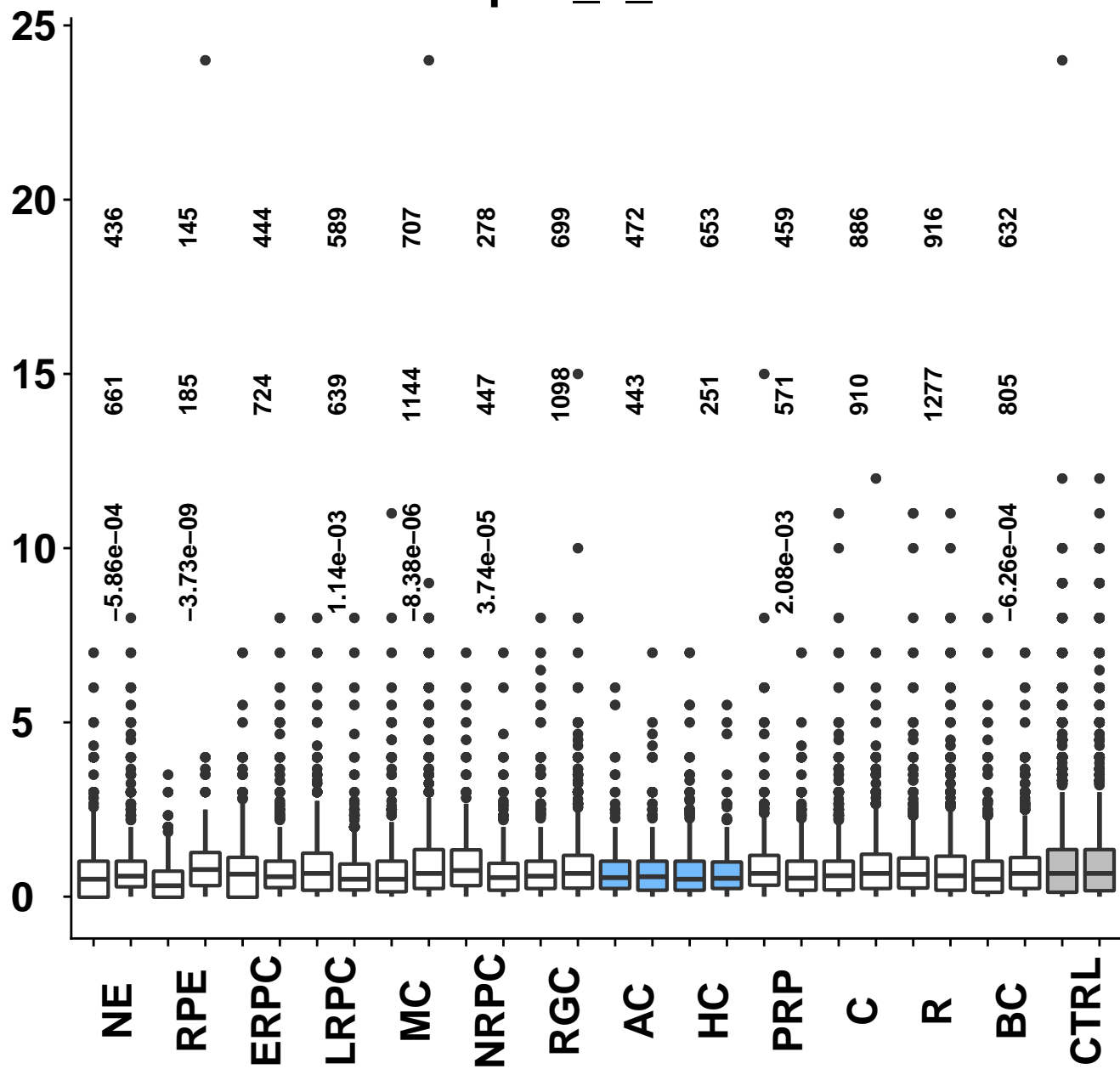
Scrt1_2_mean



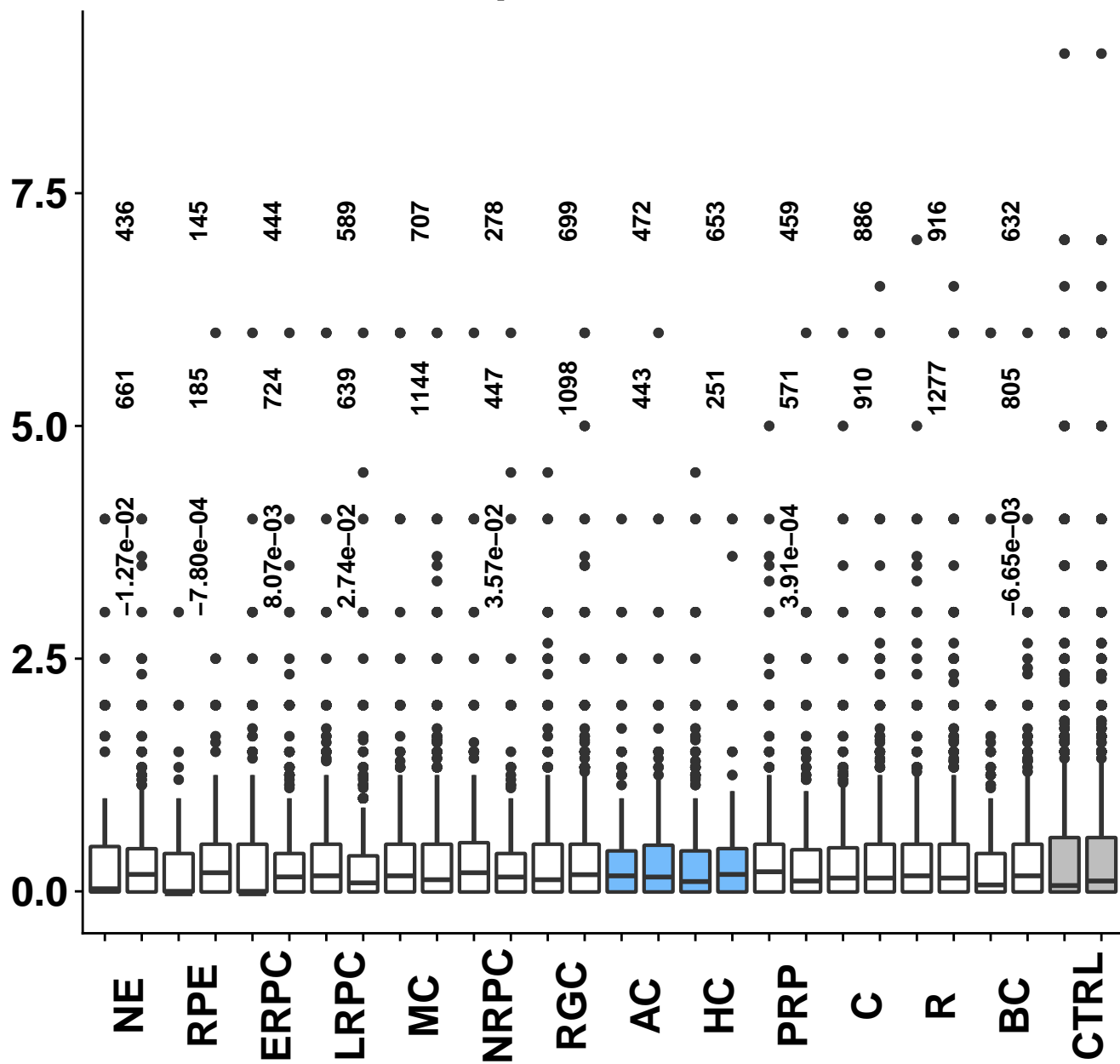
Tfap2b_1_mean



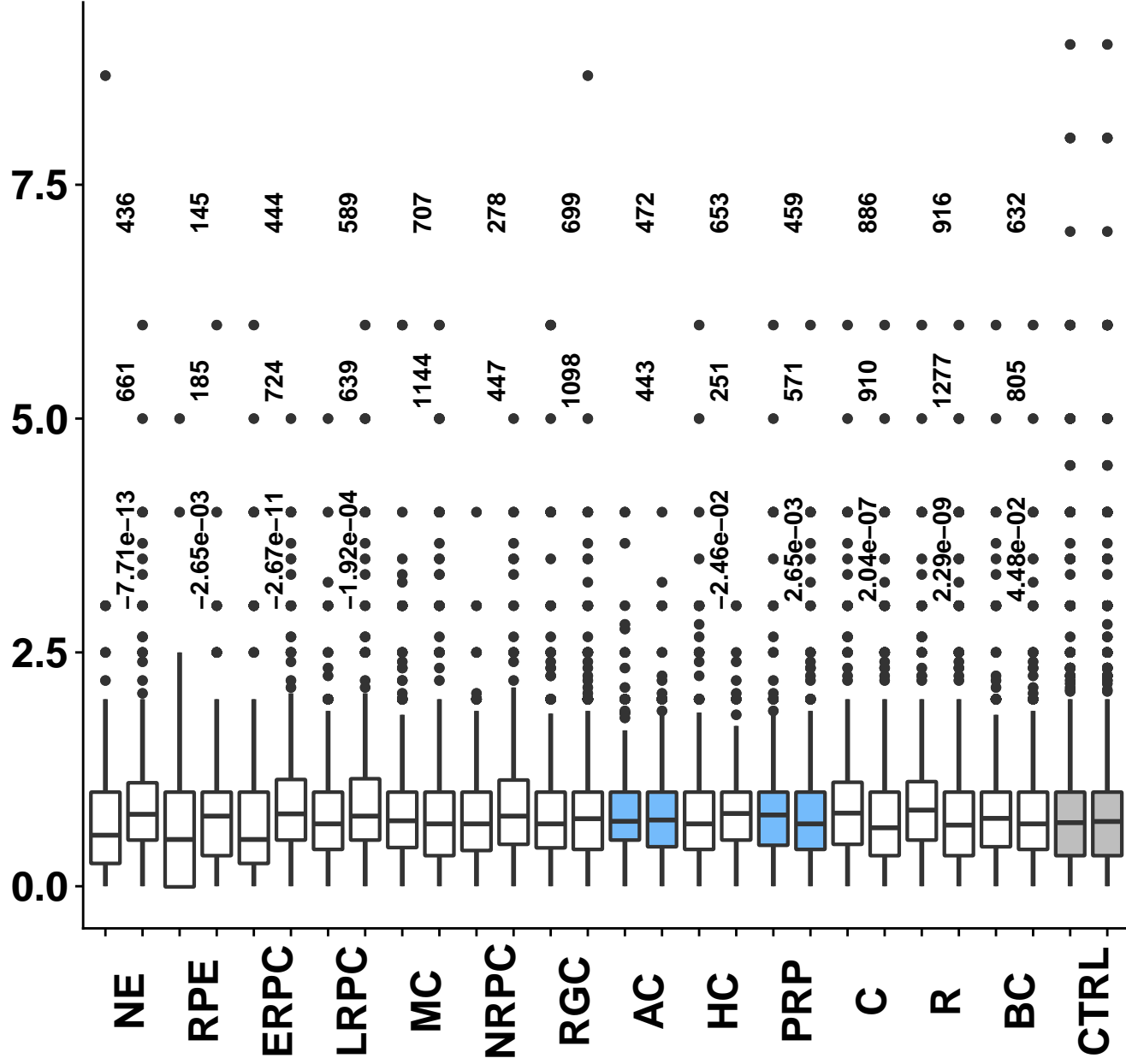
Tfap2b_2_mean



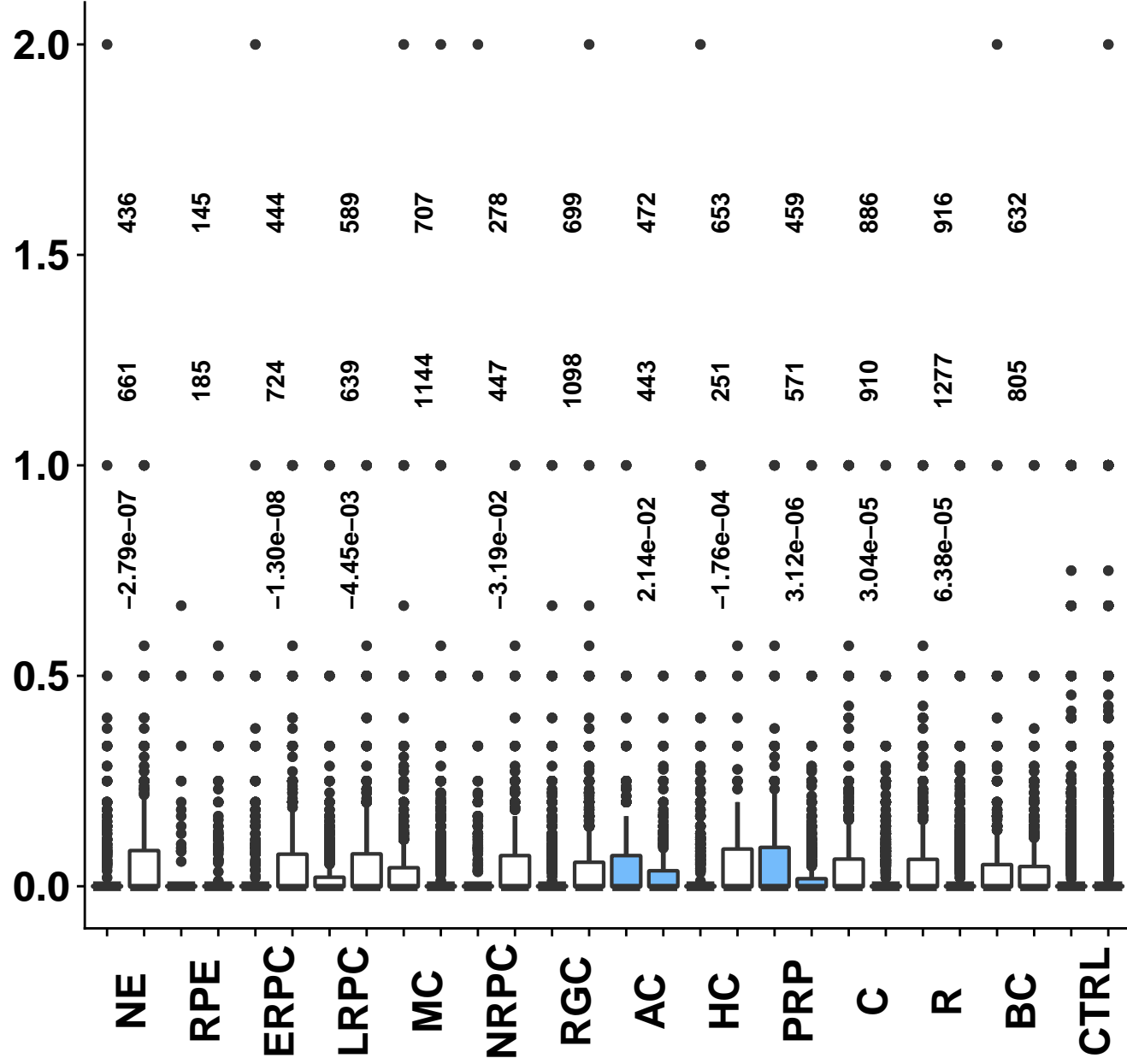
Tfap2b_3_mean



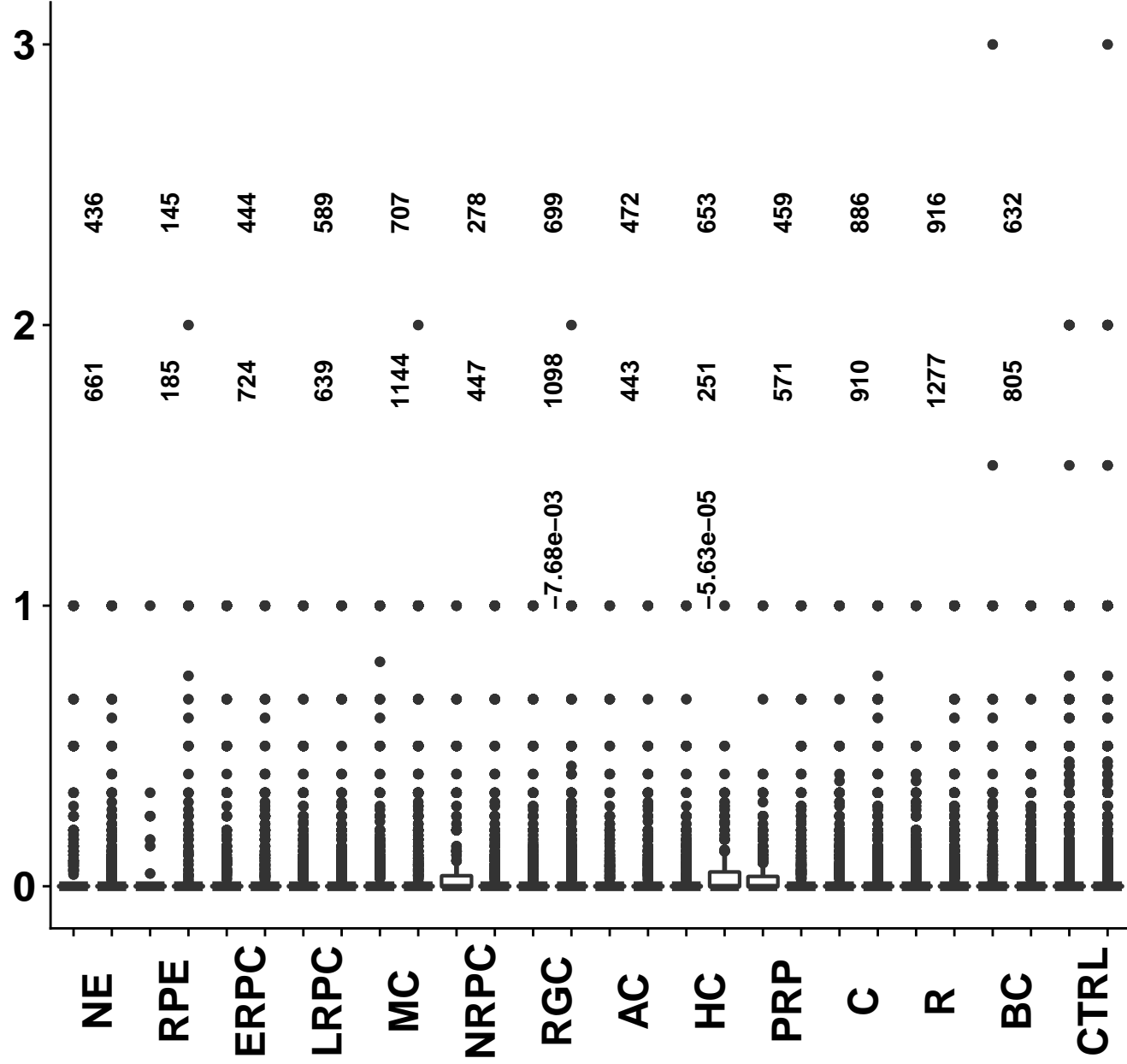
Meis2_1_mean



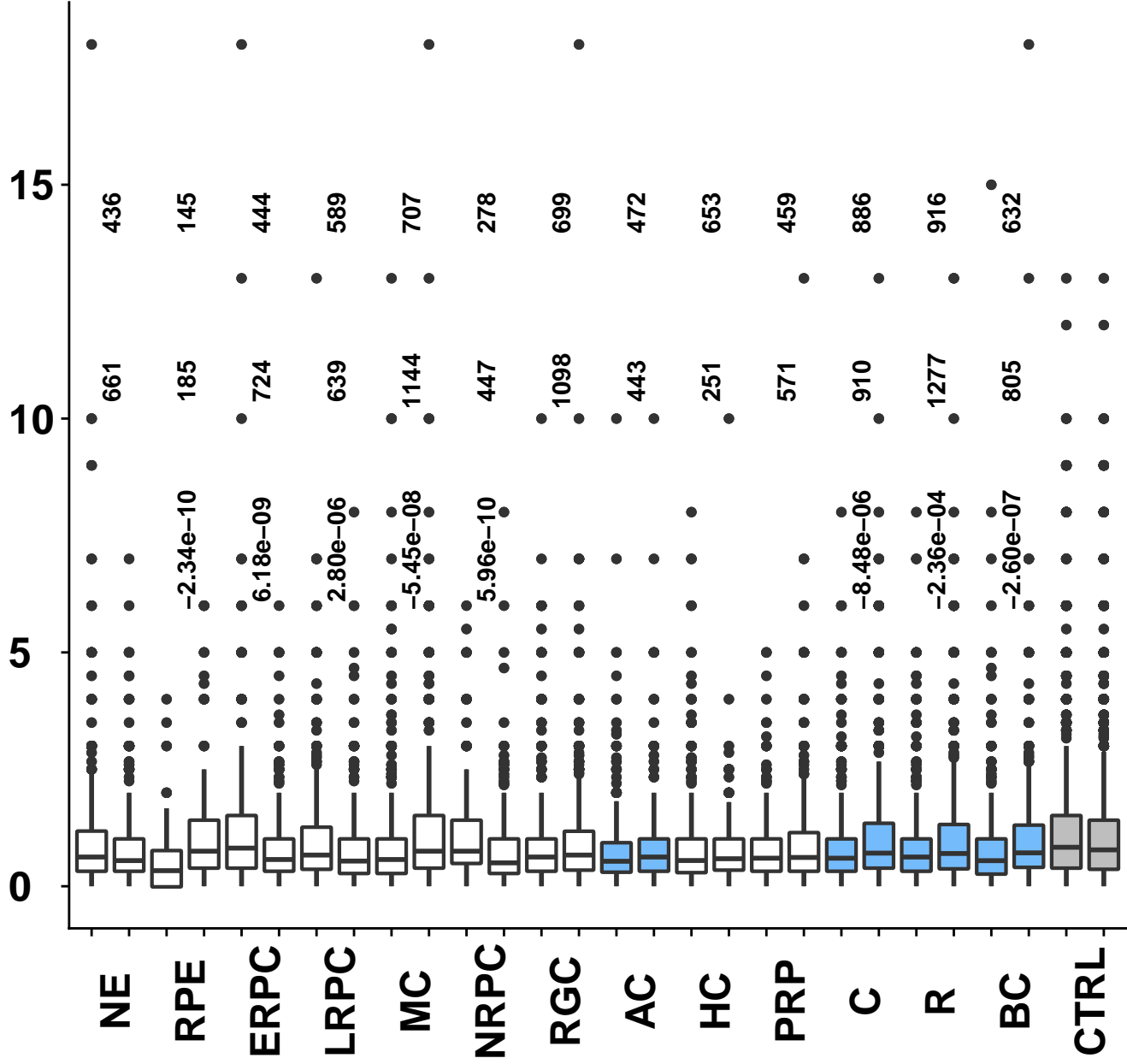
Meis2_2_mean



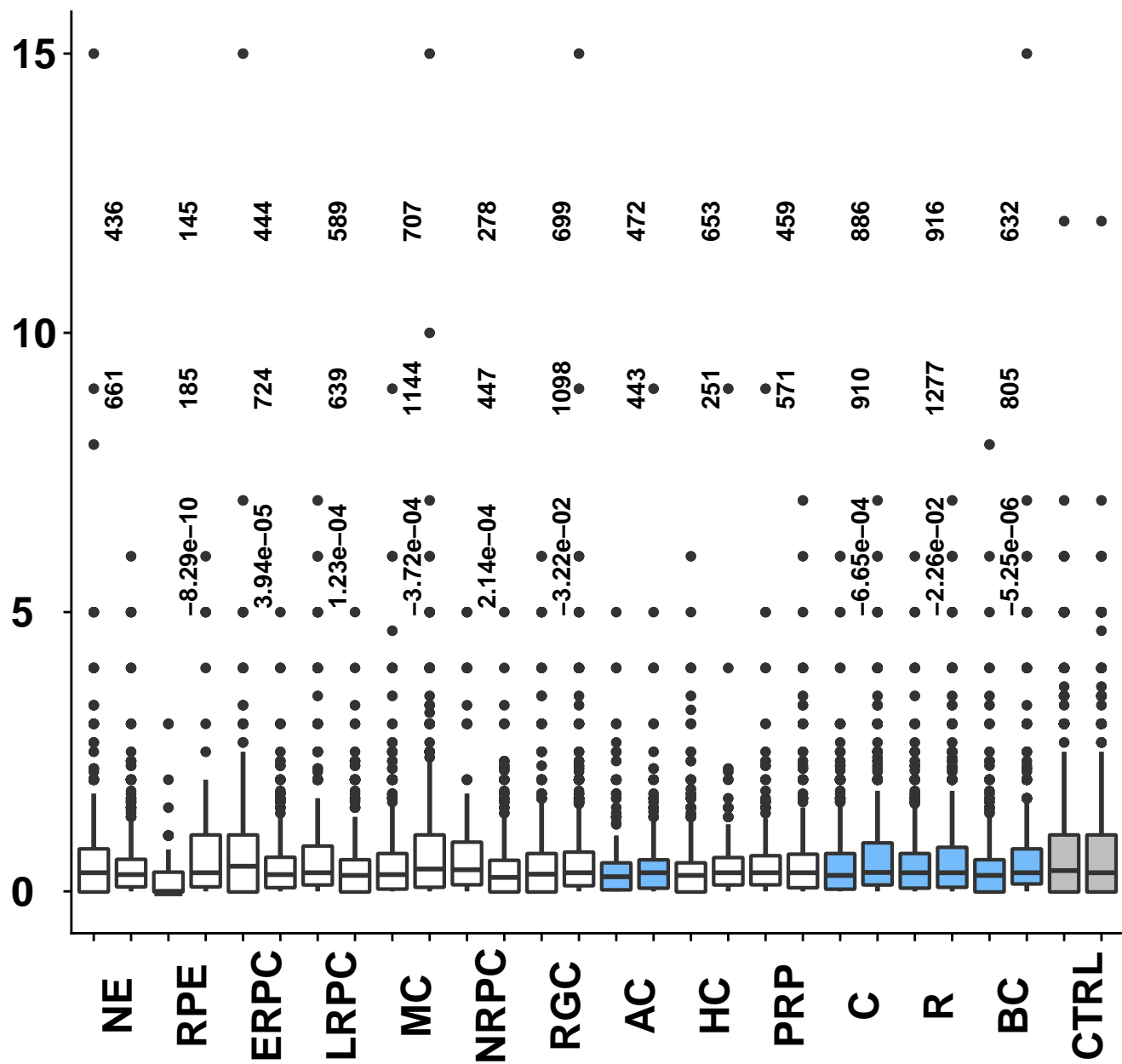
Hif1a_1_mean



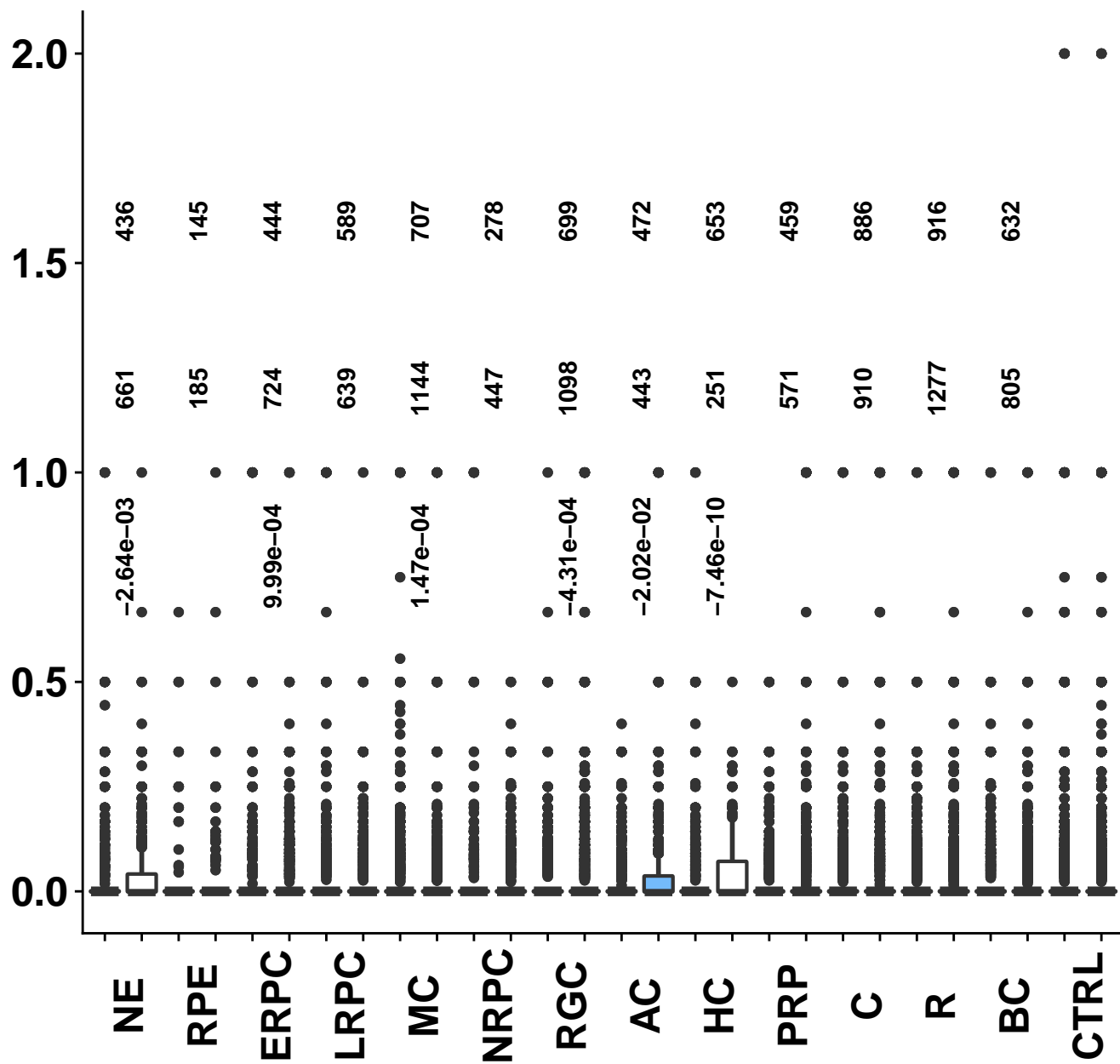
Hif1a_2_mean



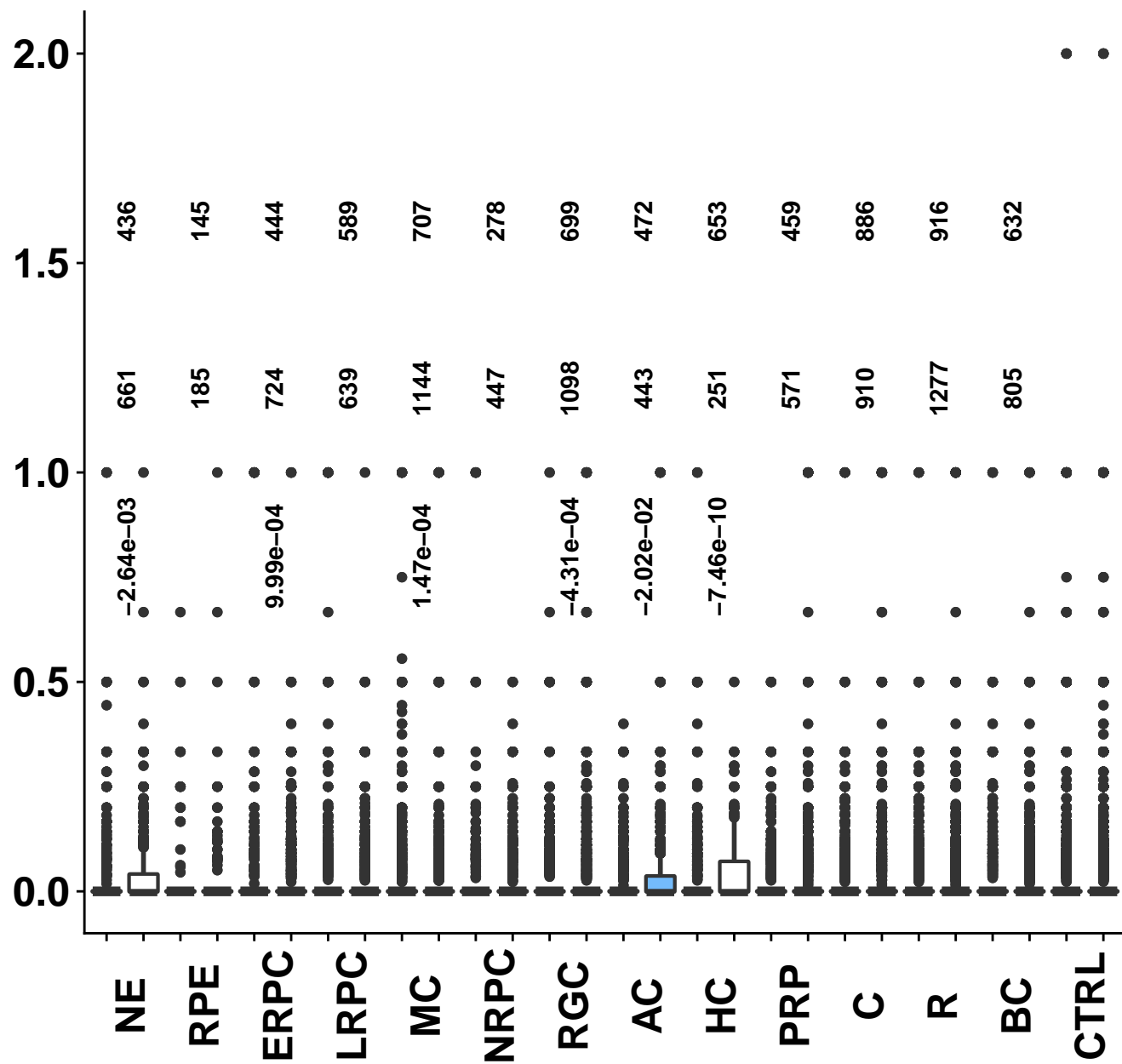
Hif1a_3_mean



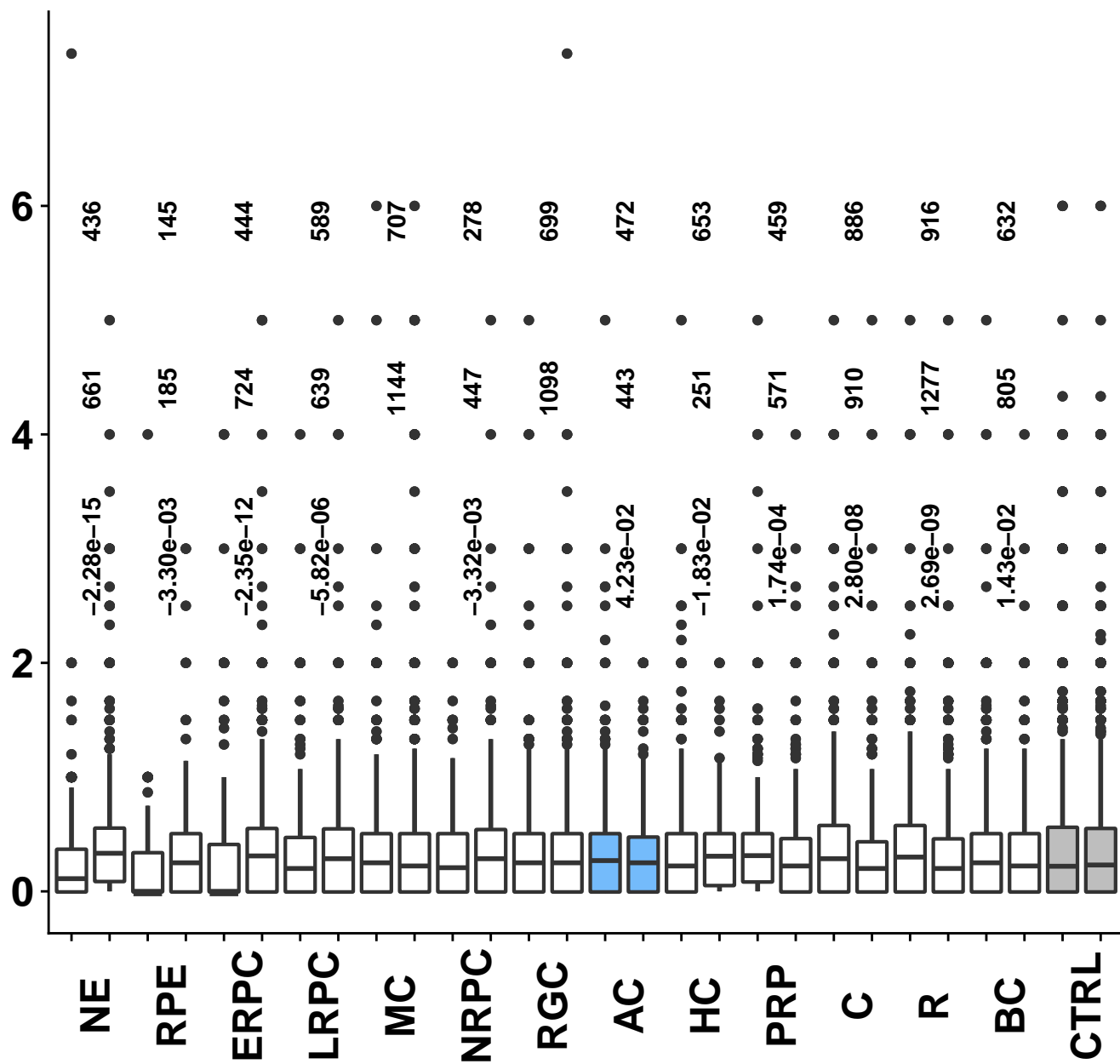
Hmx1_1_mean



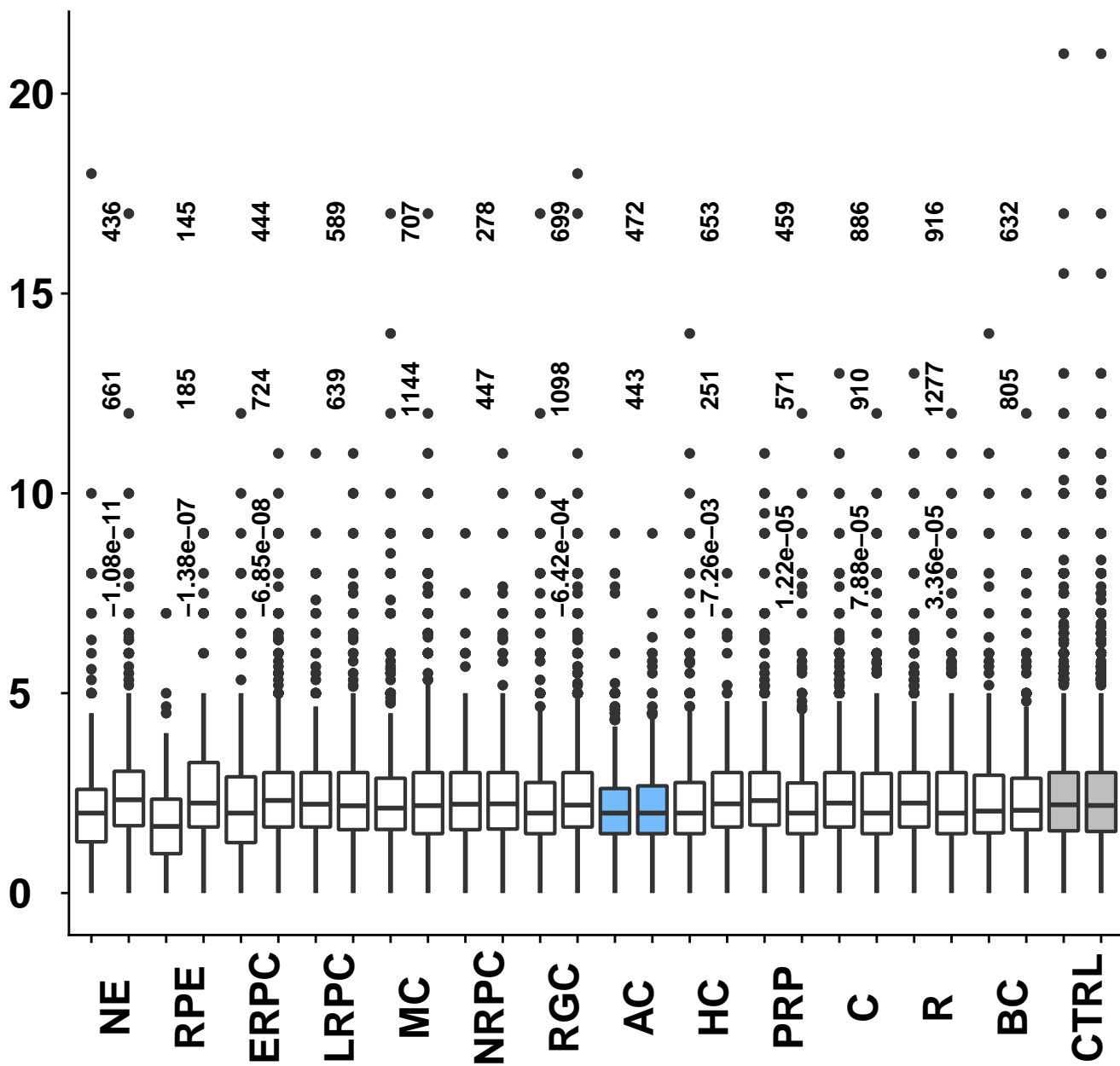
Hmx1_2_mean



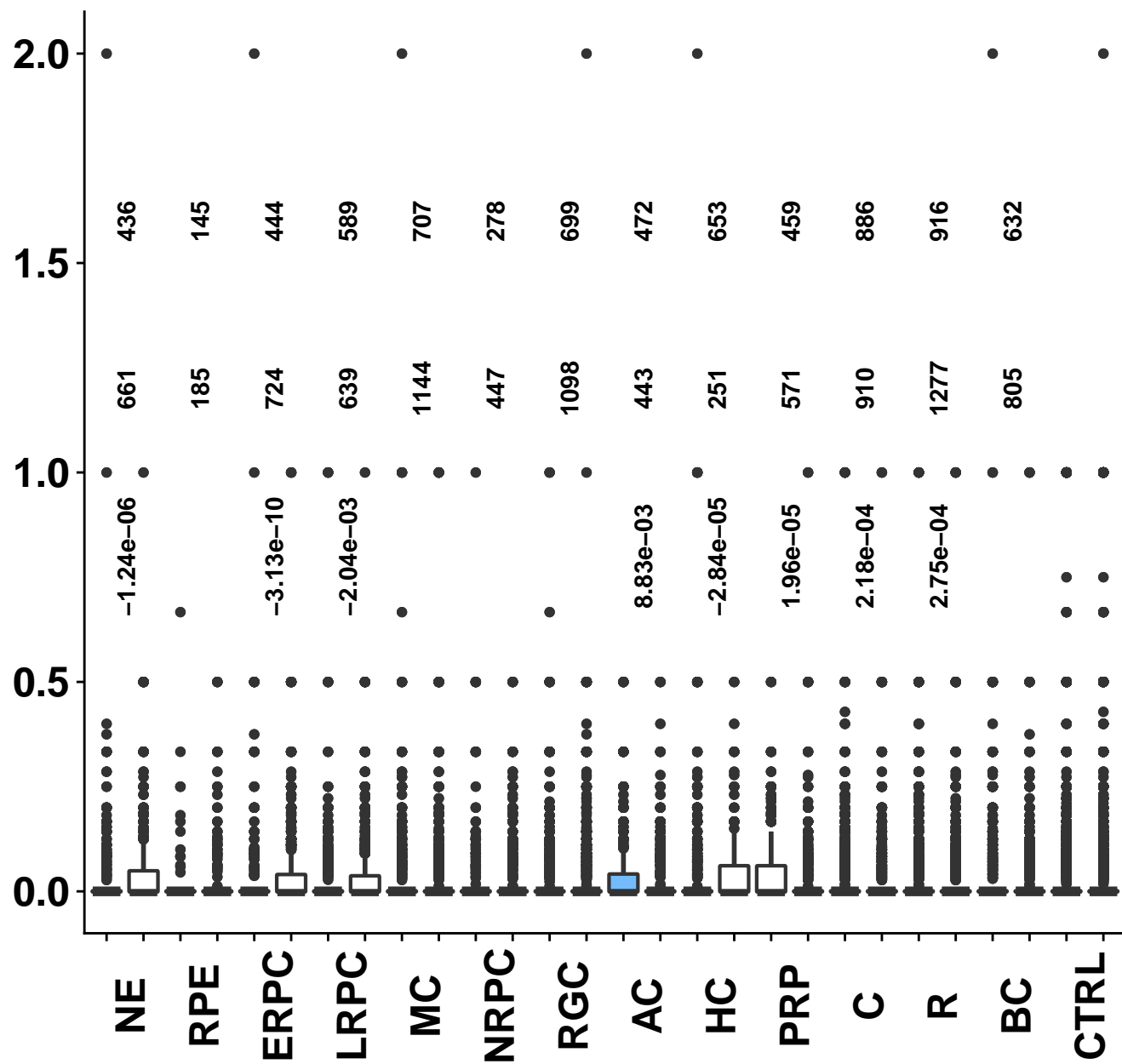
Meis1_1_mean



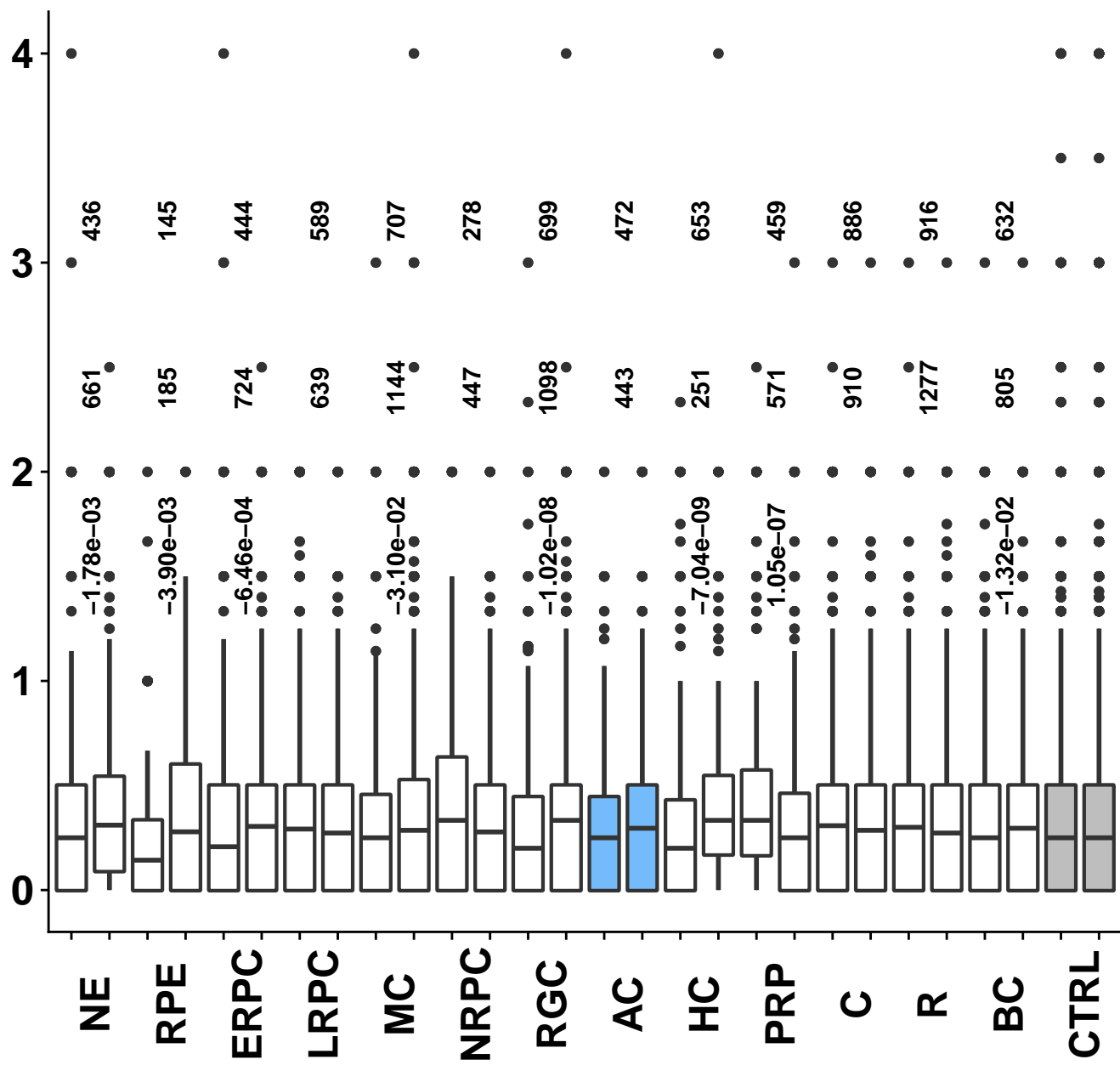
Meis1_2_mean



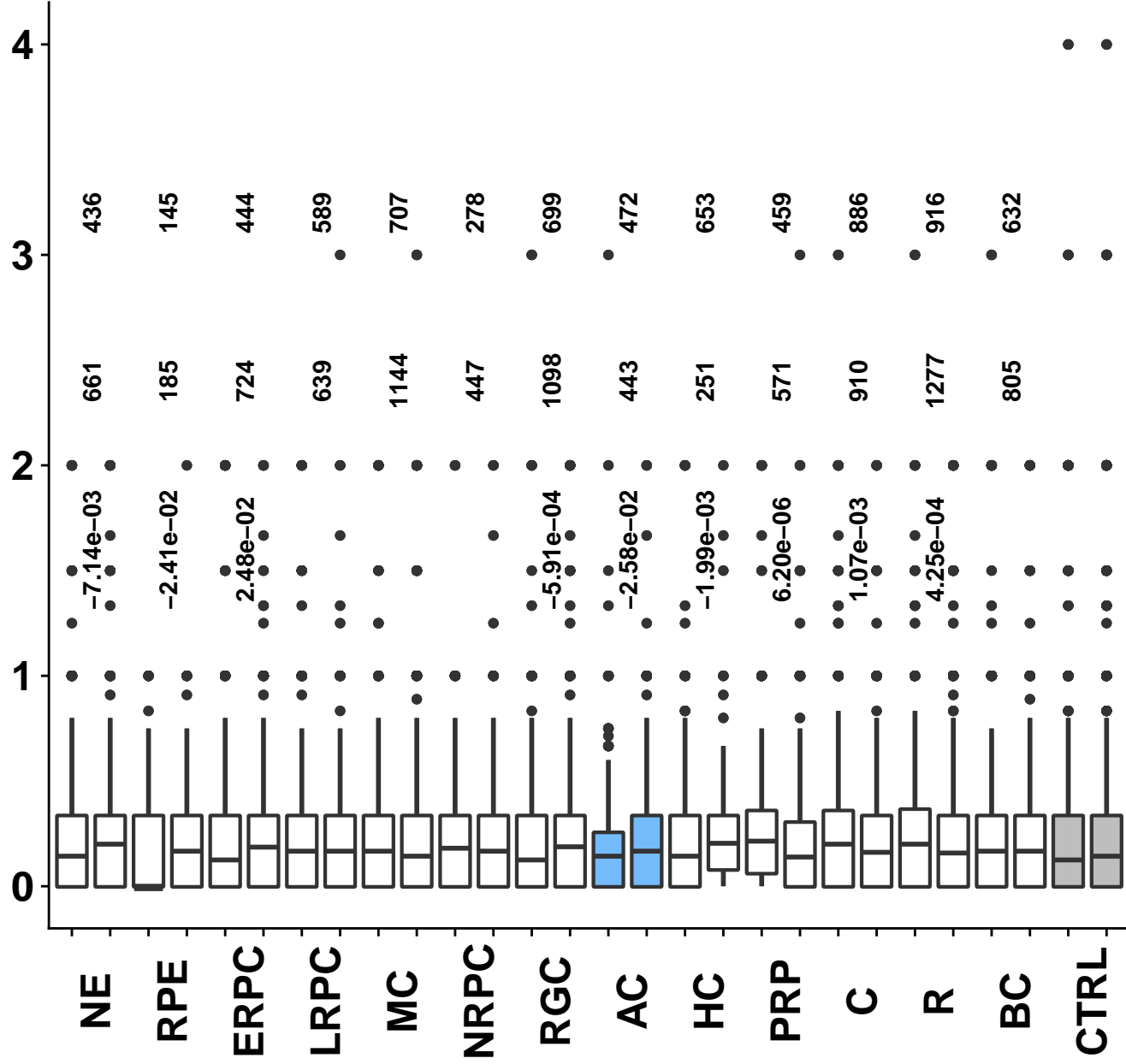
Meis1_3_mean



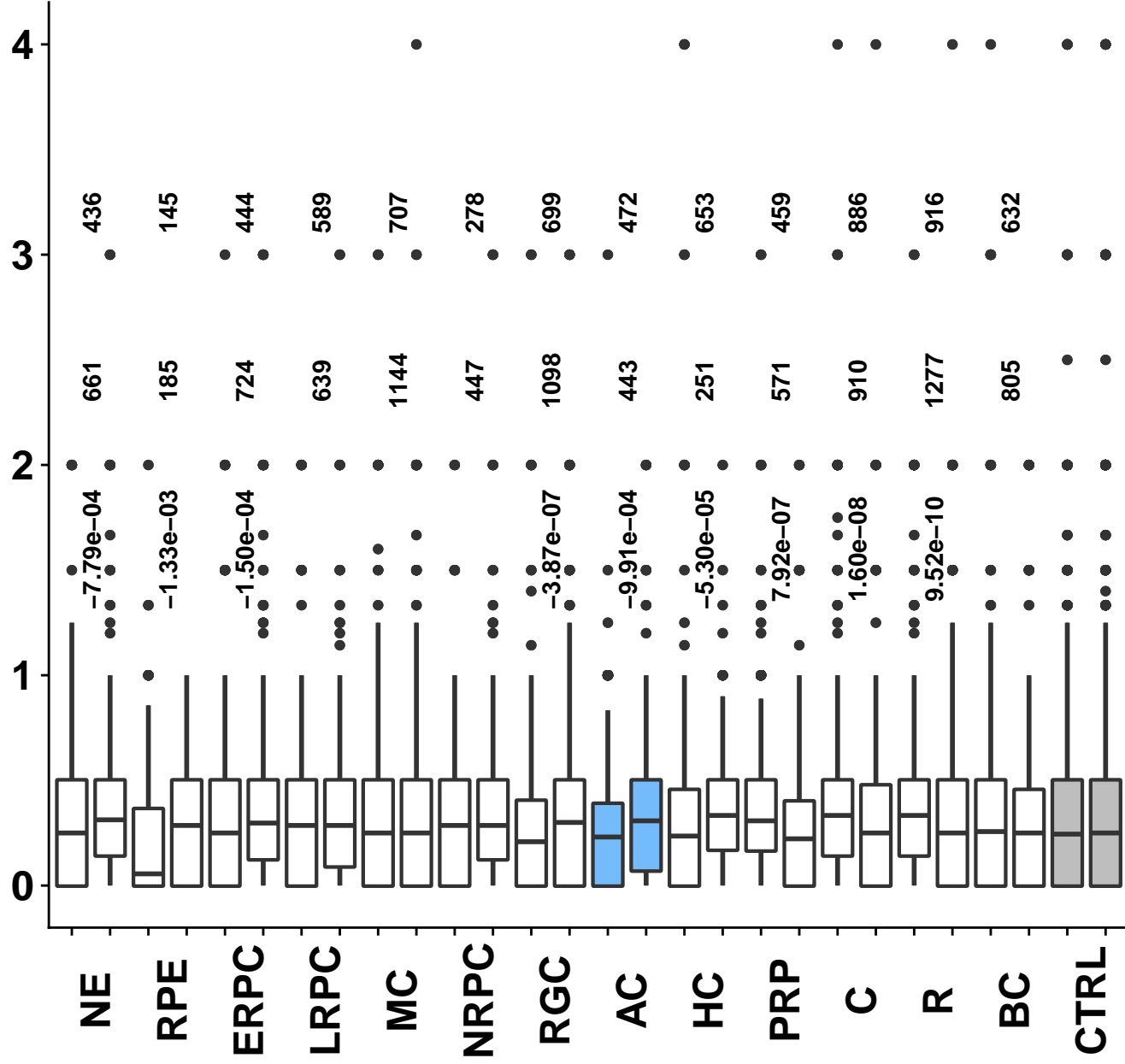
Neurod2_1_mean



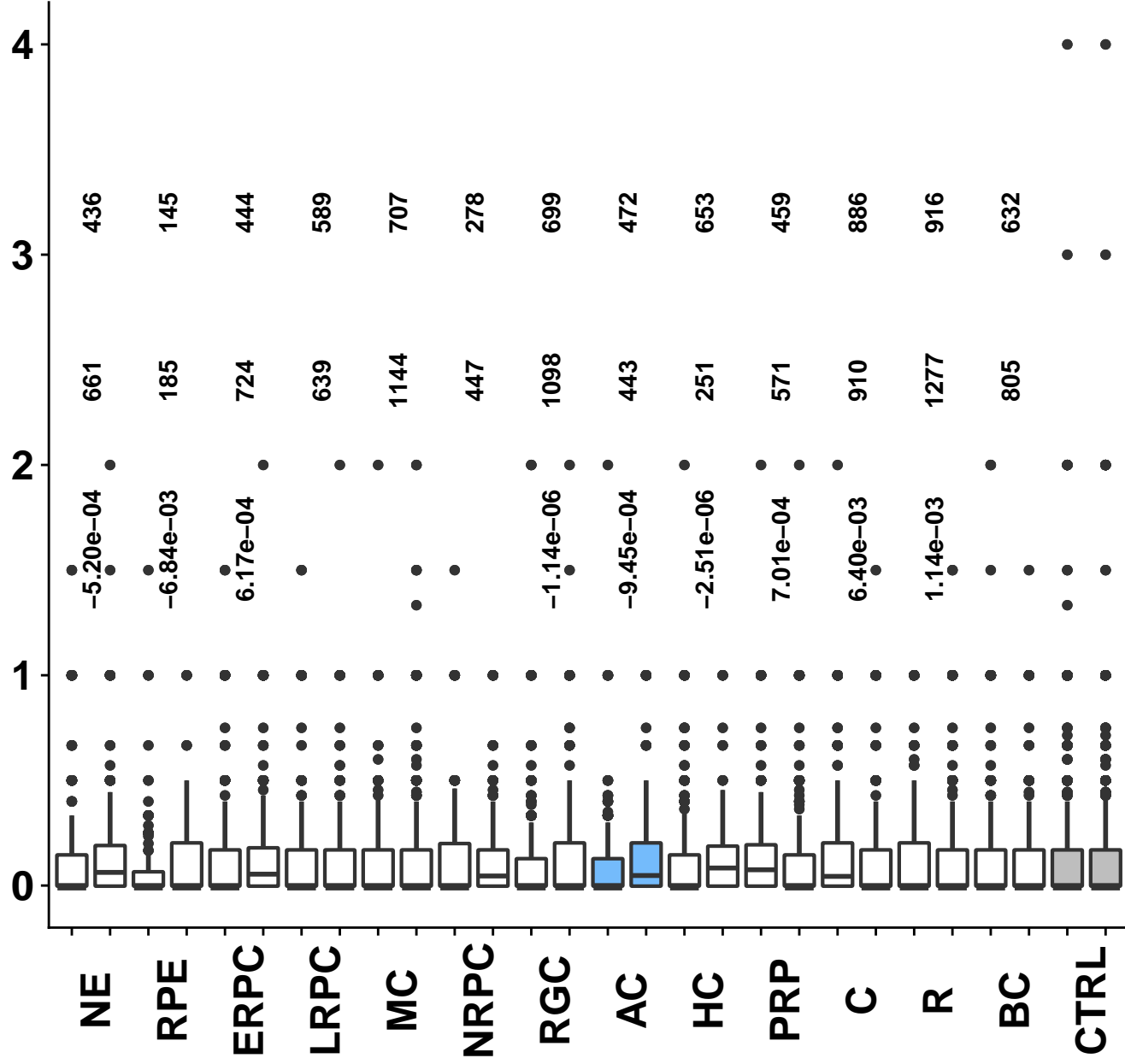
Nr2f2_1_mean



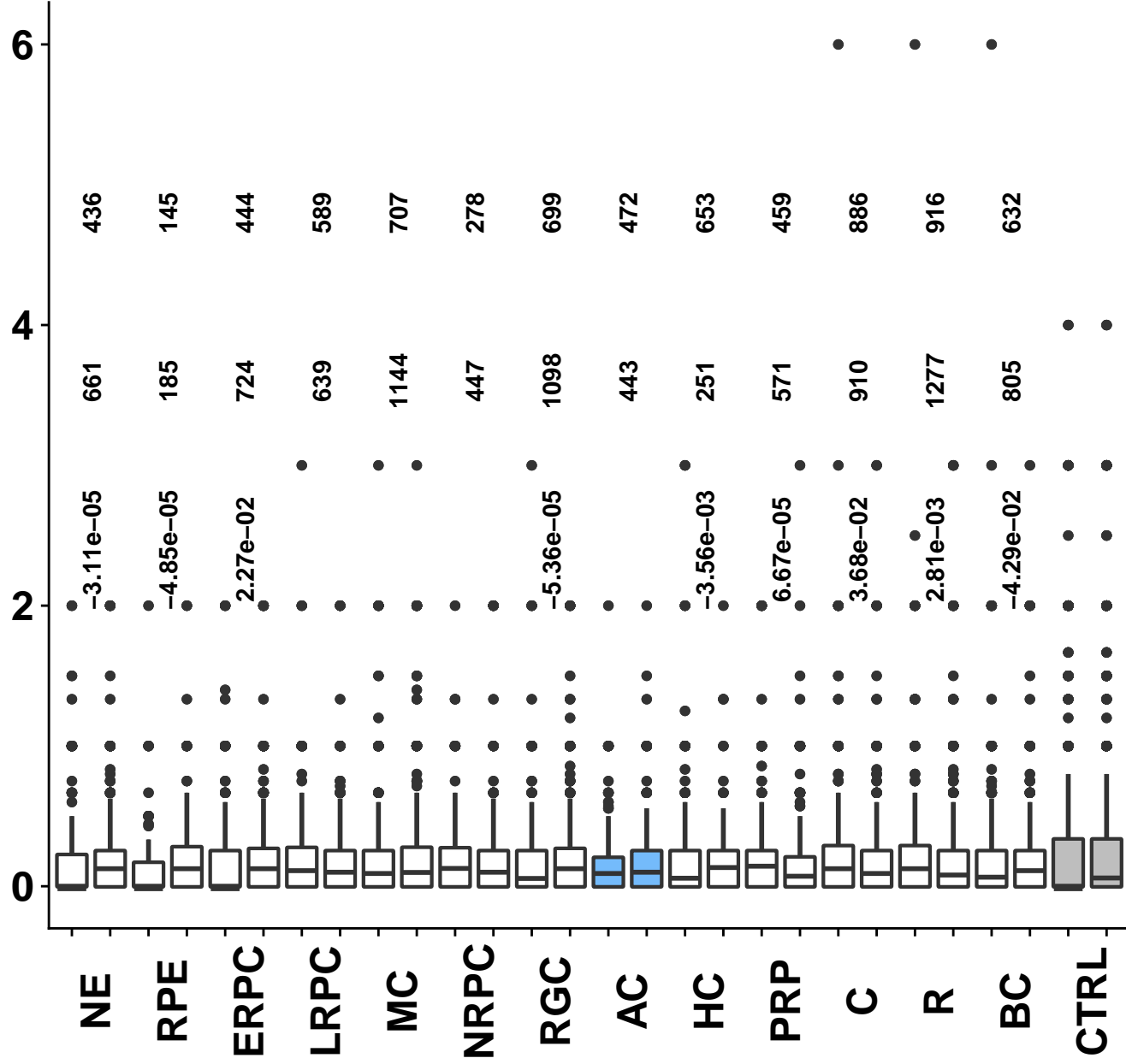
Nr2f2_2_mean



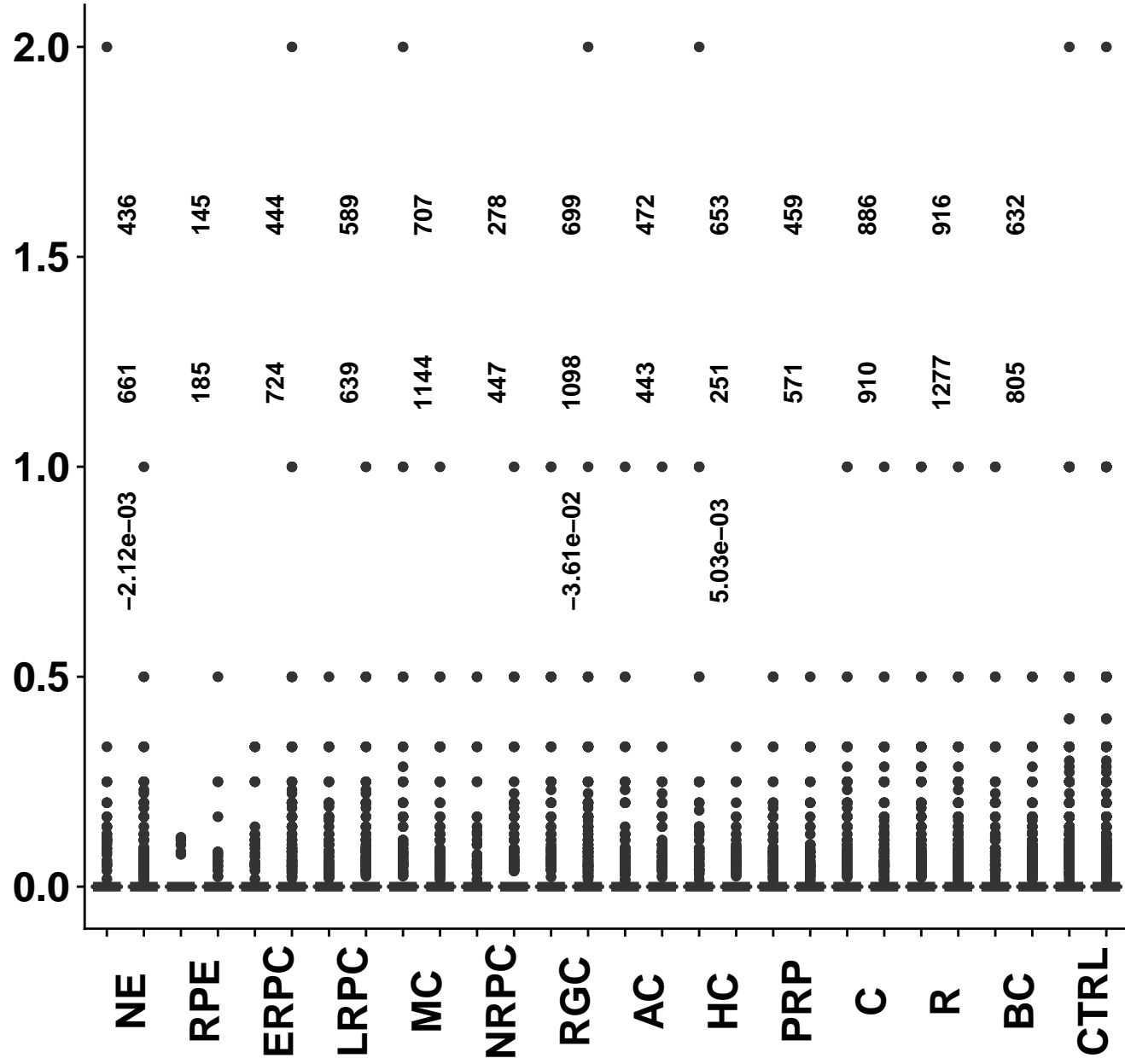
Nr2f2_3_mean



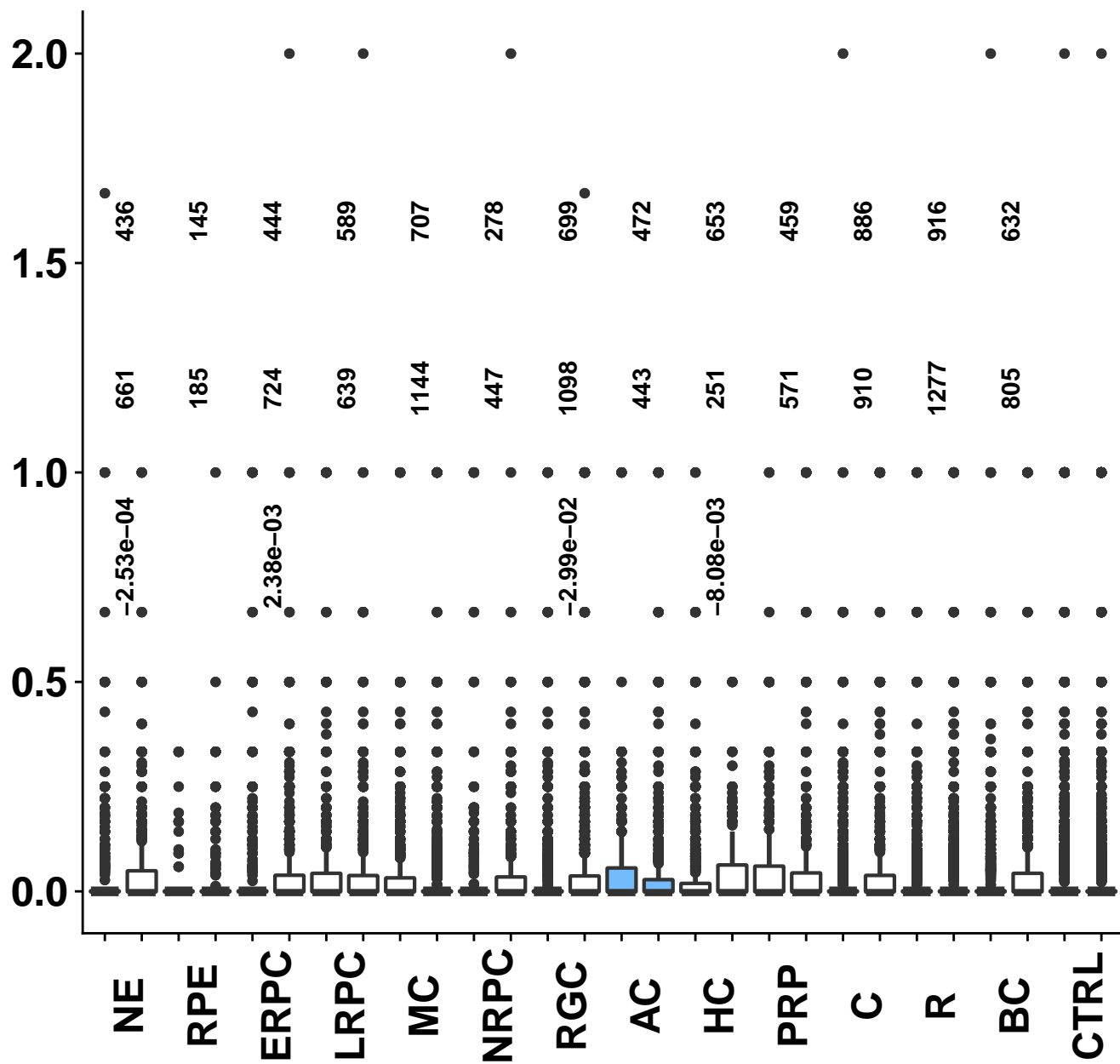
Nr2f2_4_mean



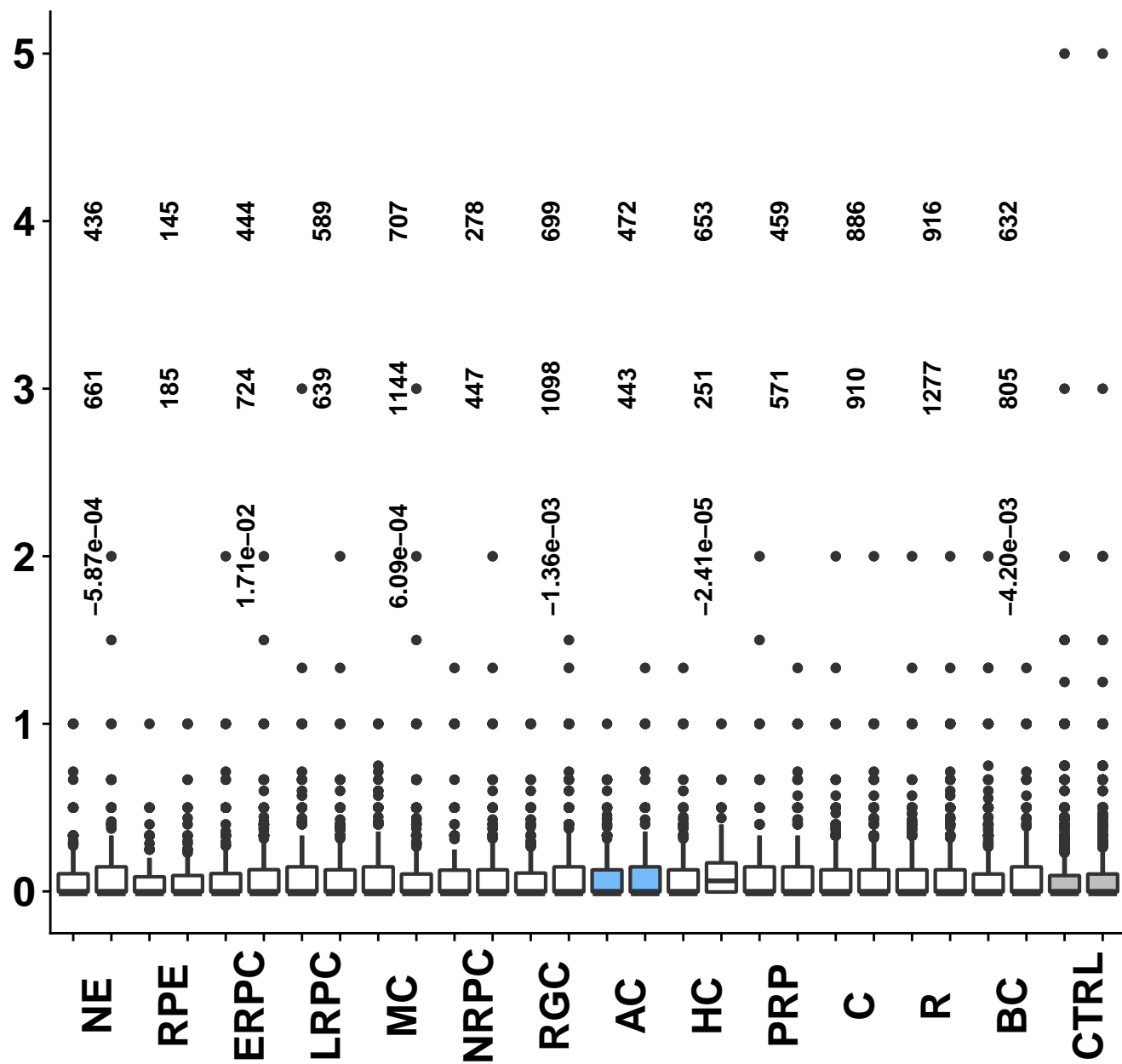
Pbx1_1_mean



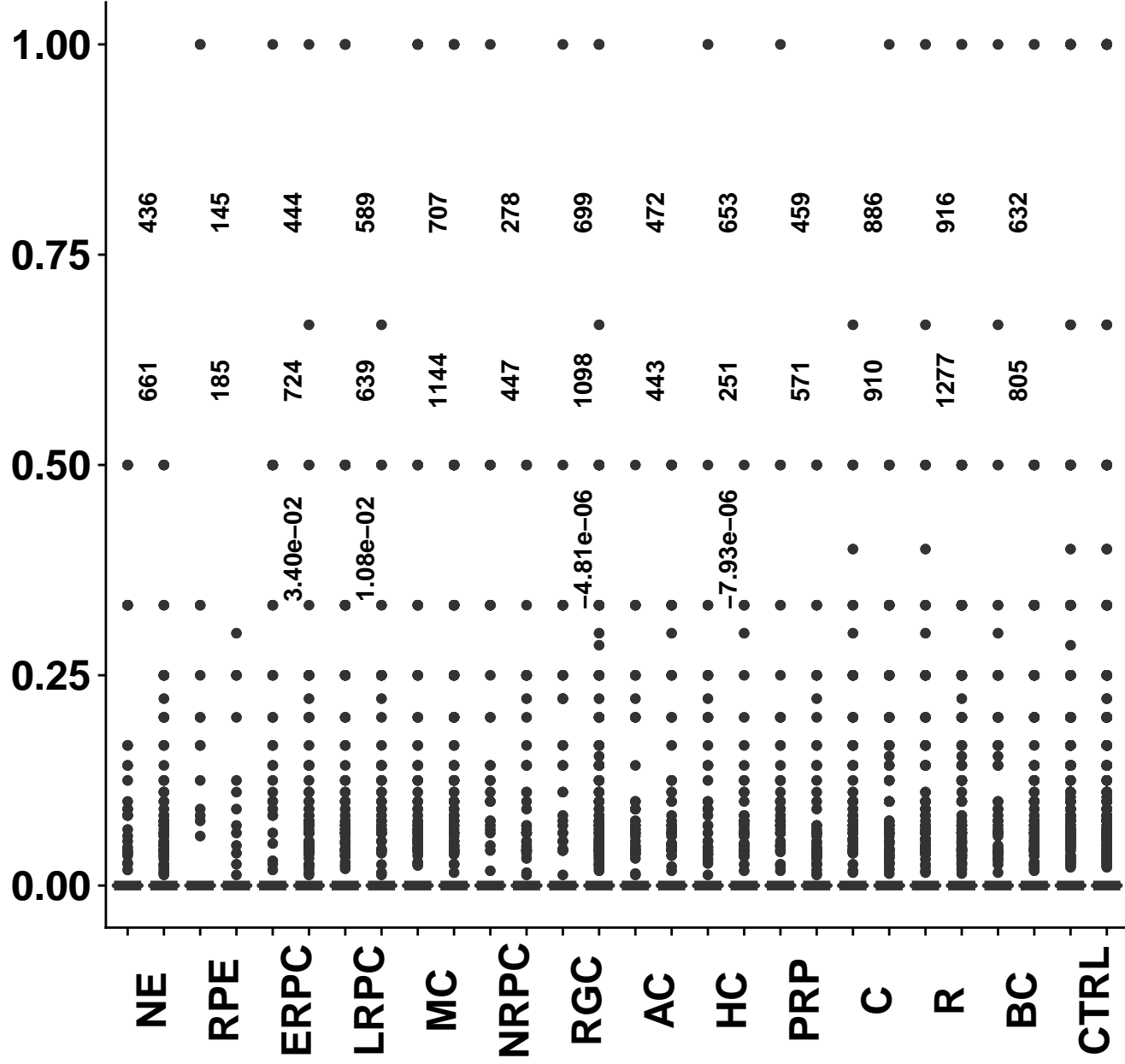
Pbx1_2_mean



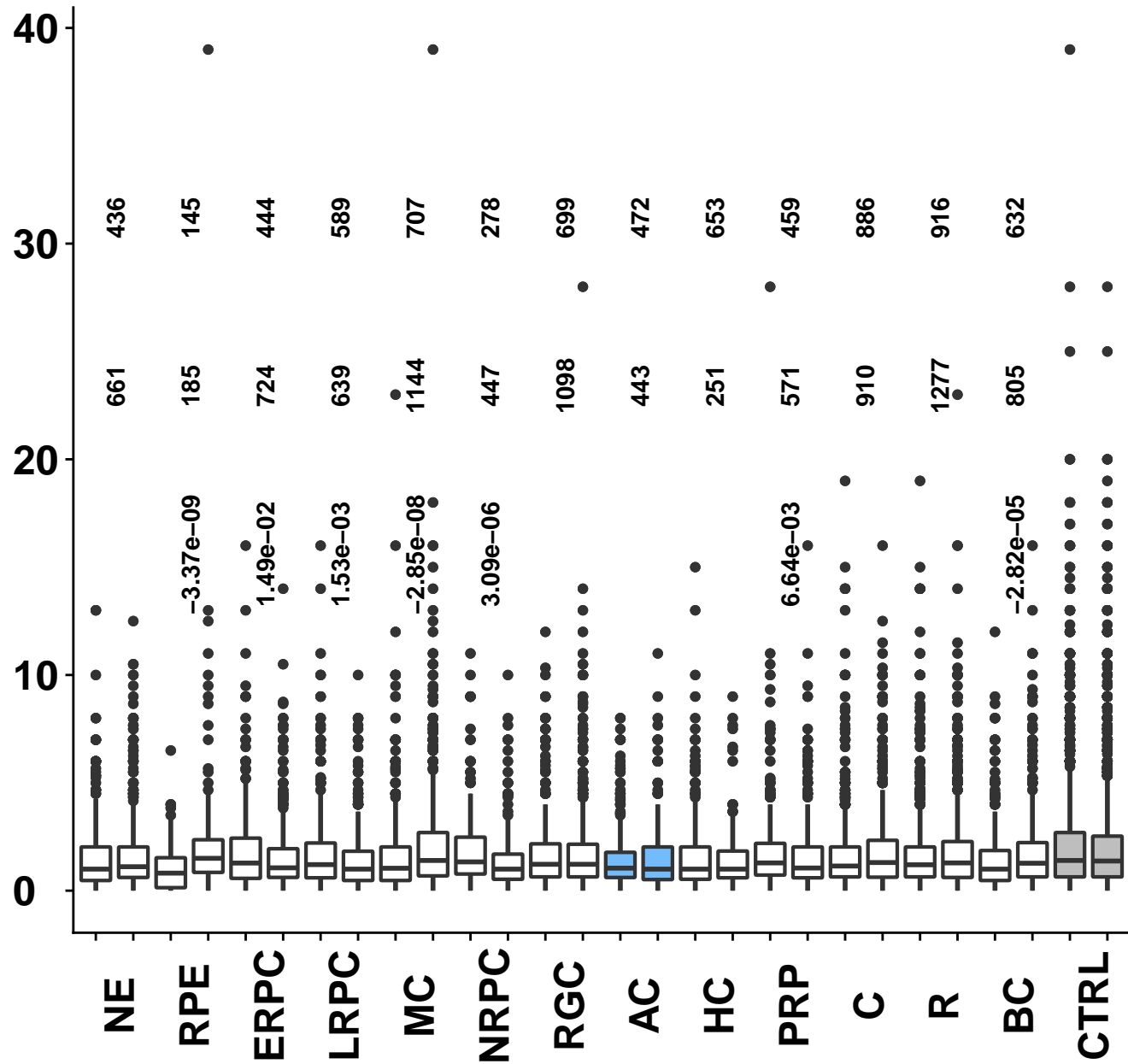
Pbx1_3_mean



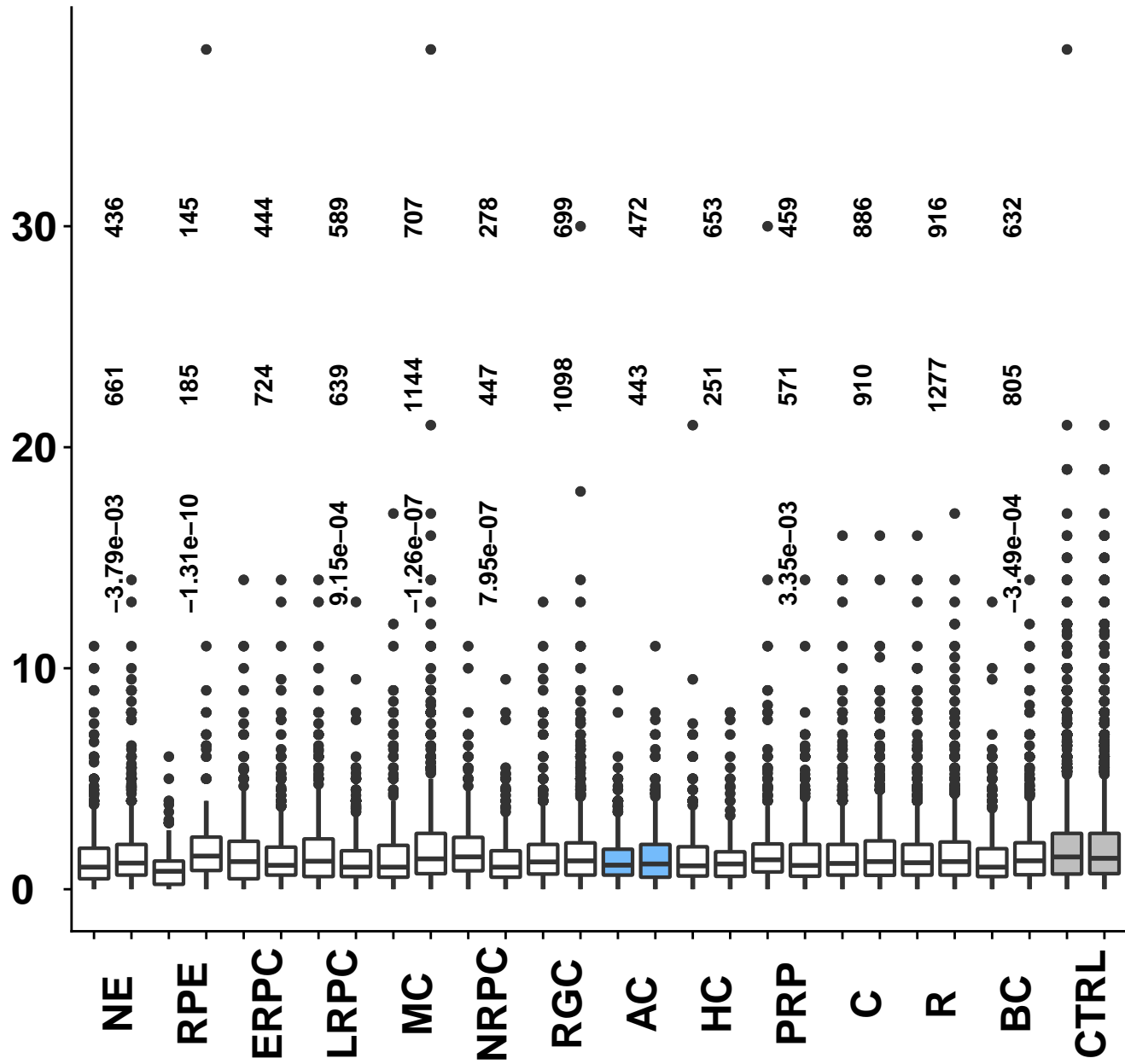
Scrt2_1_mean



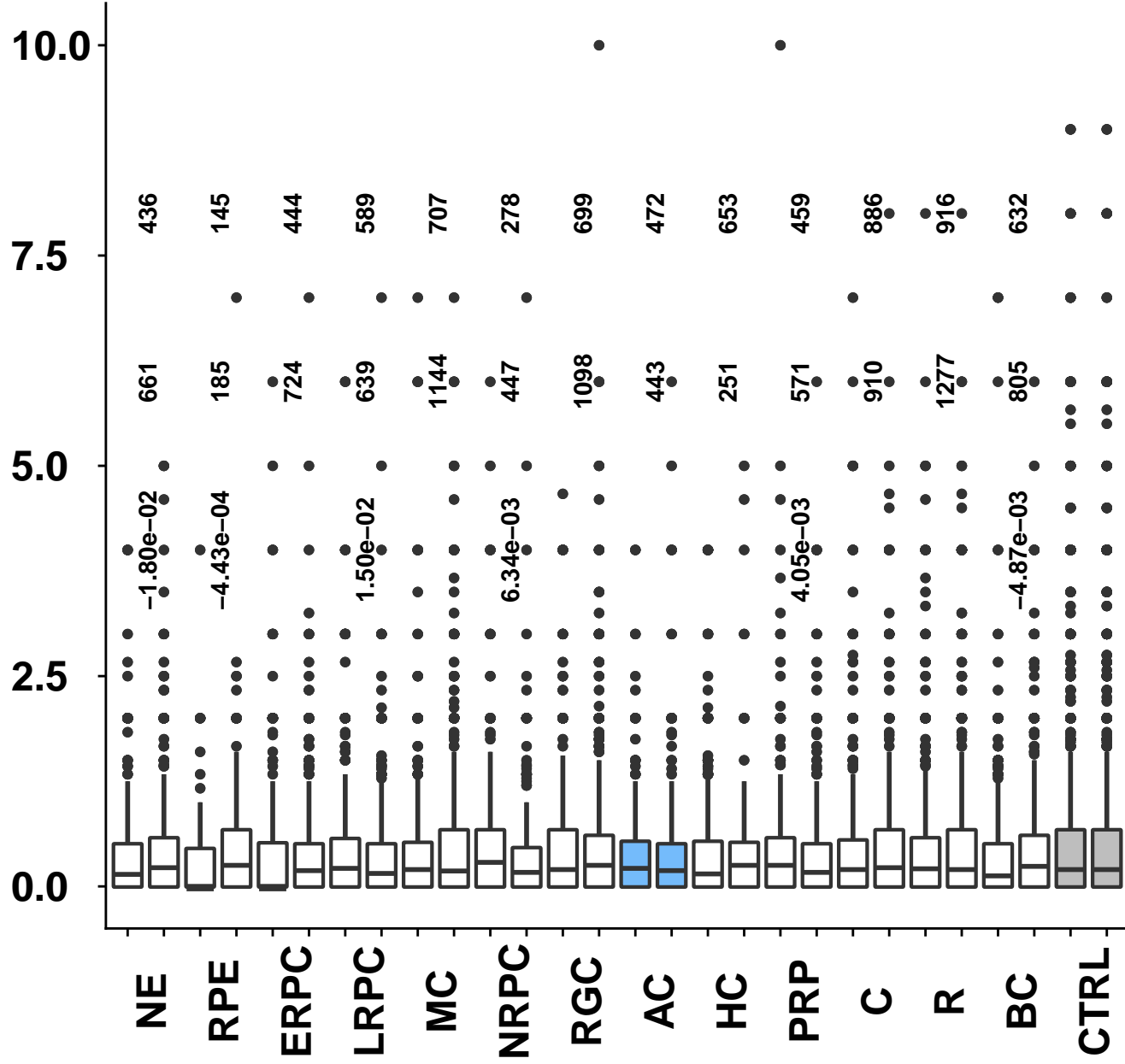
Tfap2a_1_mean



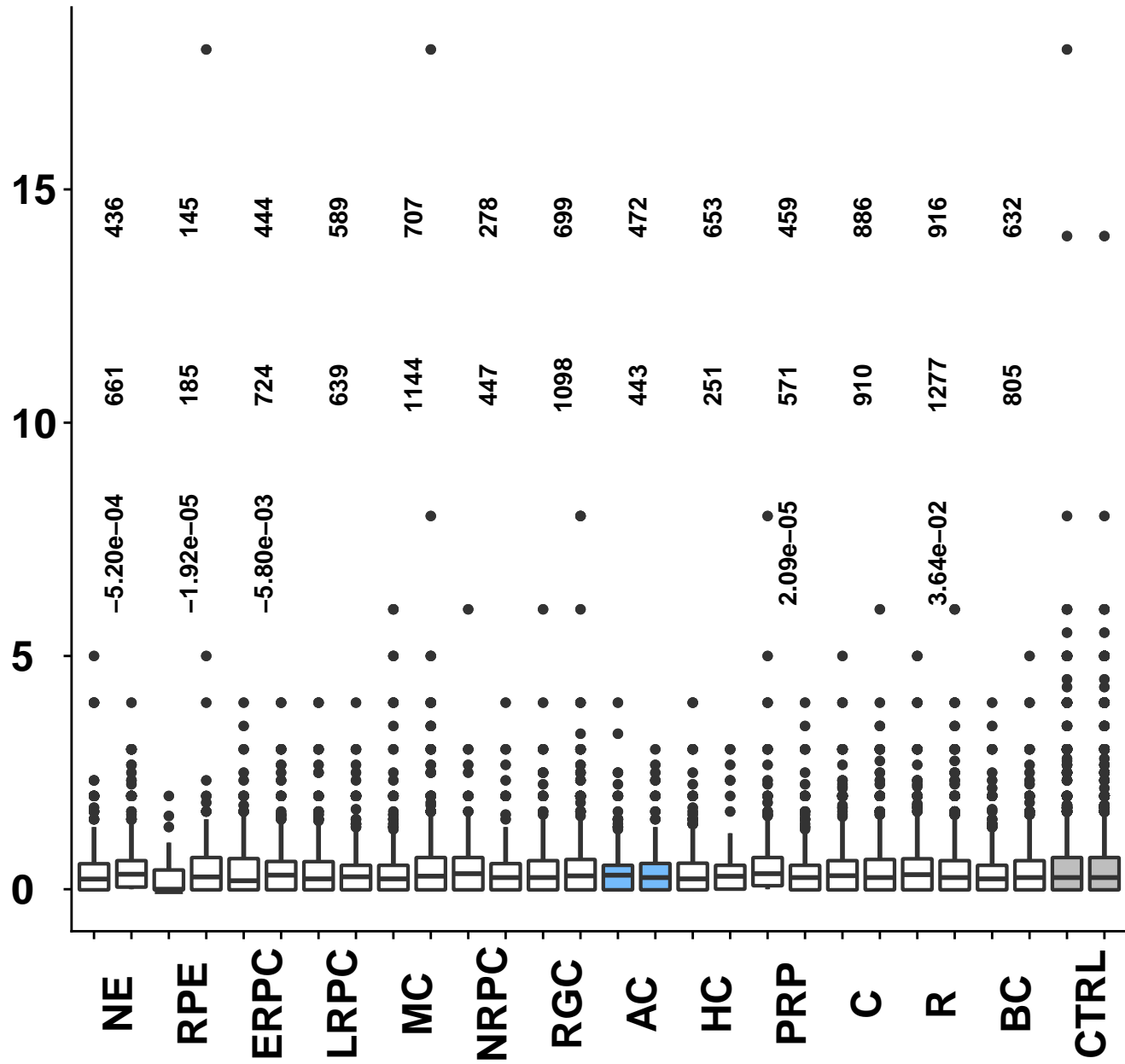
Tfap2a_2_mean



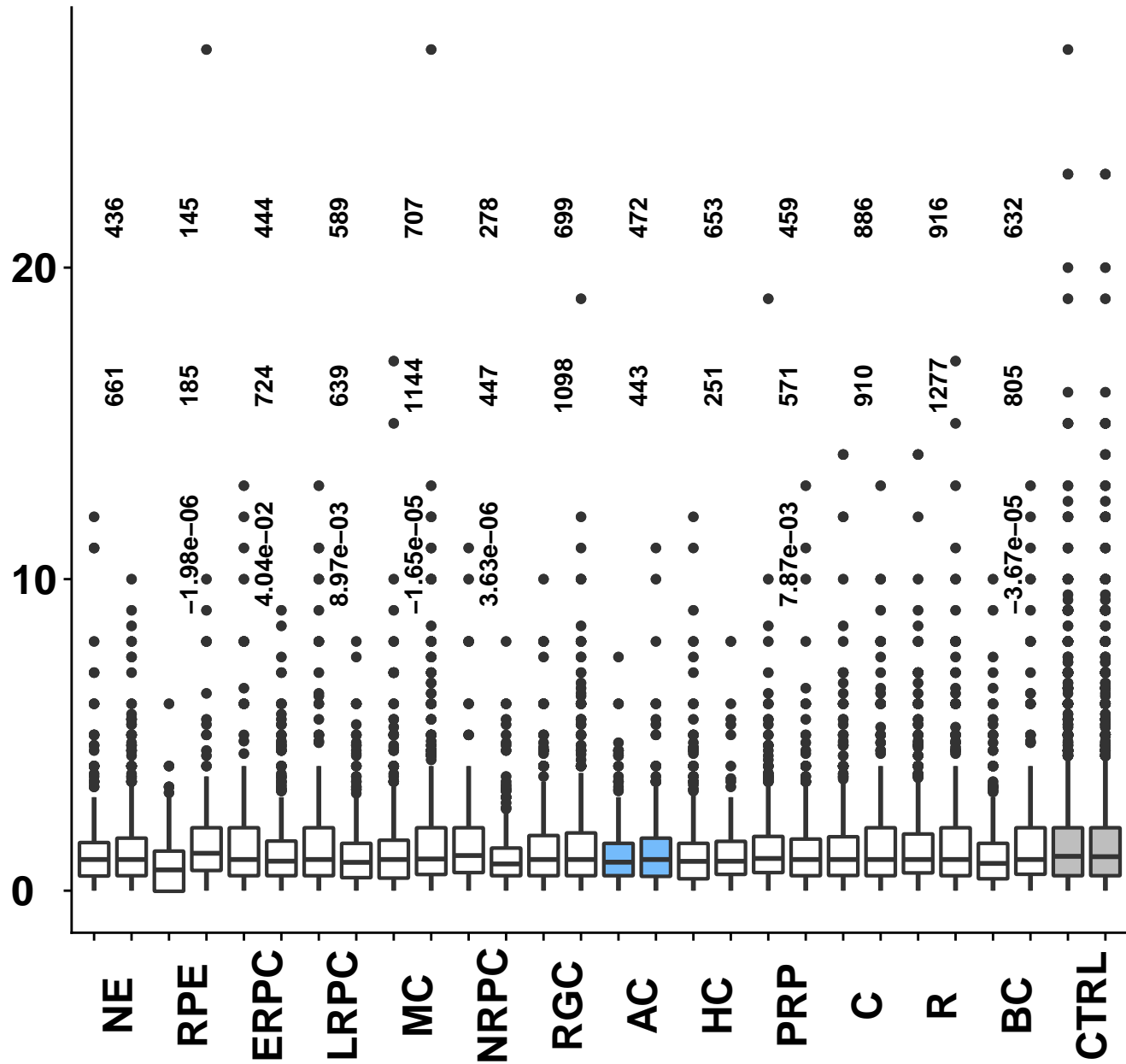
Tfap2a_3_mean



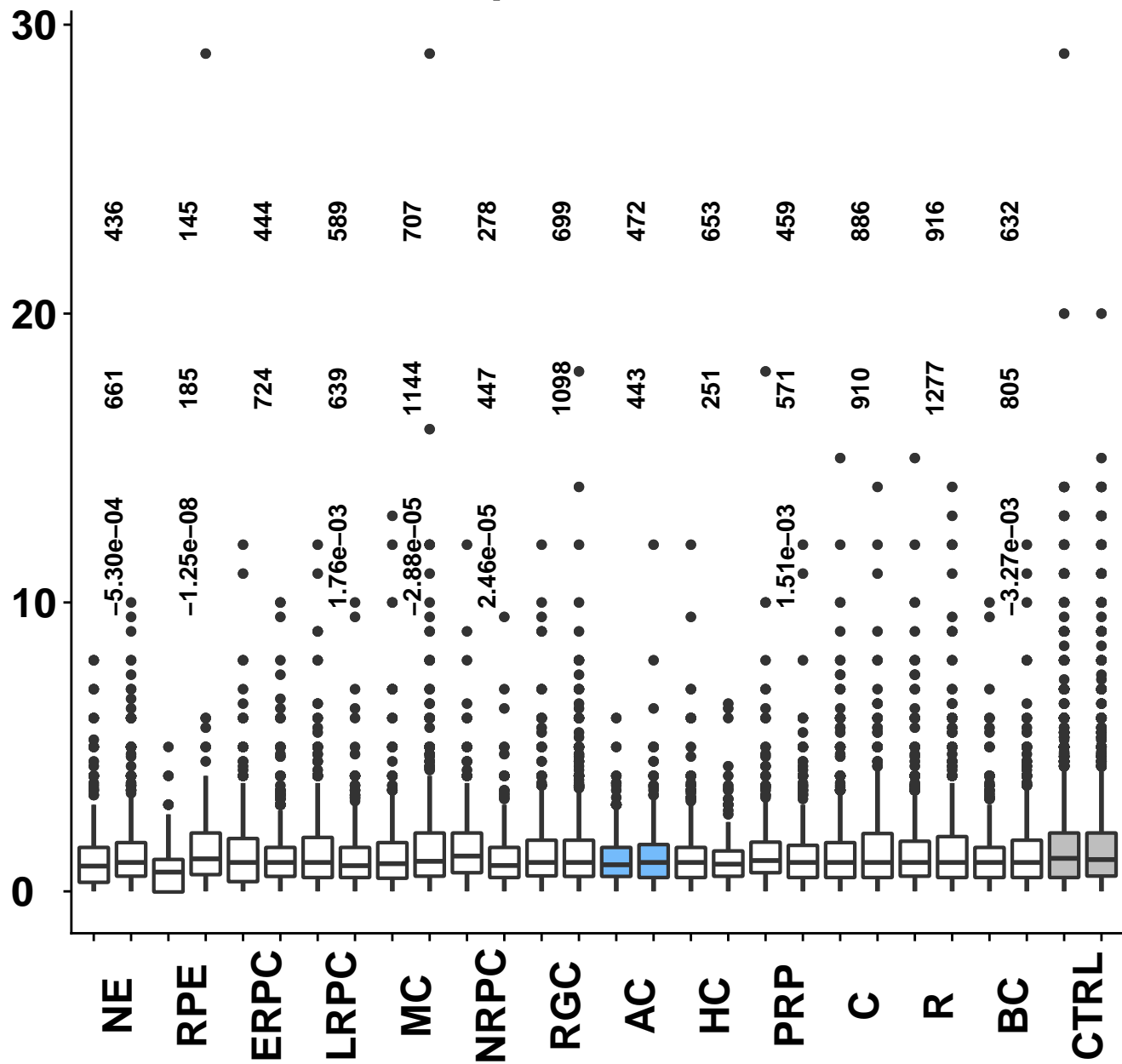
Tfap2c_1_mean



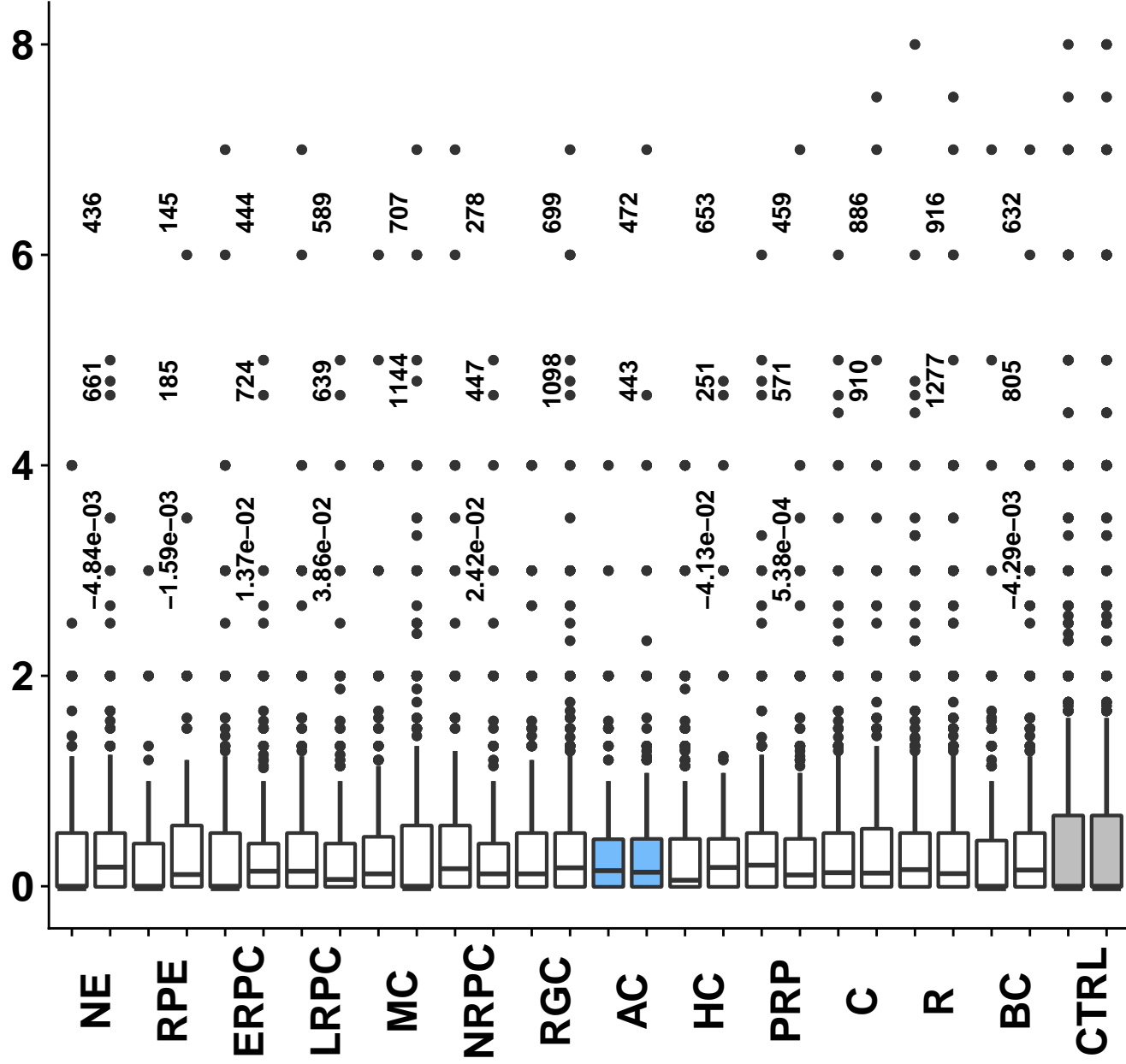
Tfap2c_2_mean



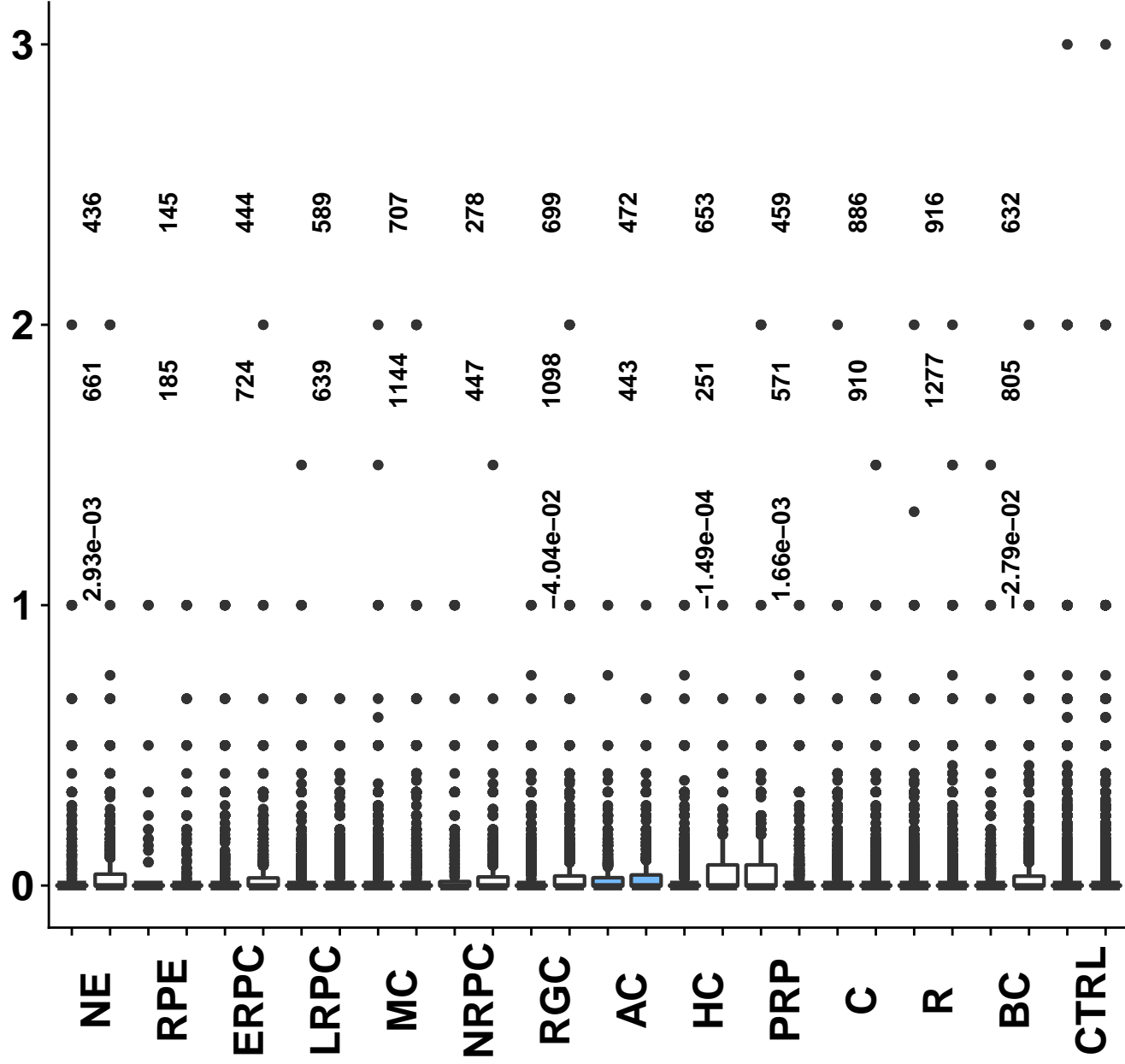
Tfap2c_3_mean



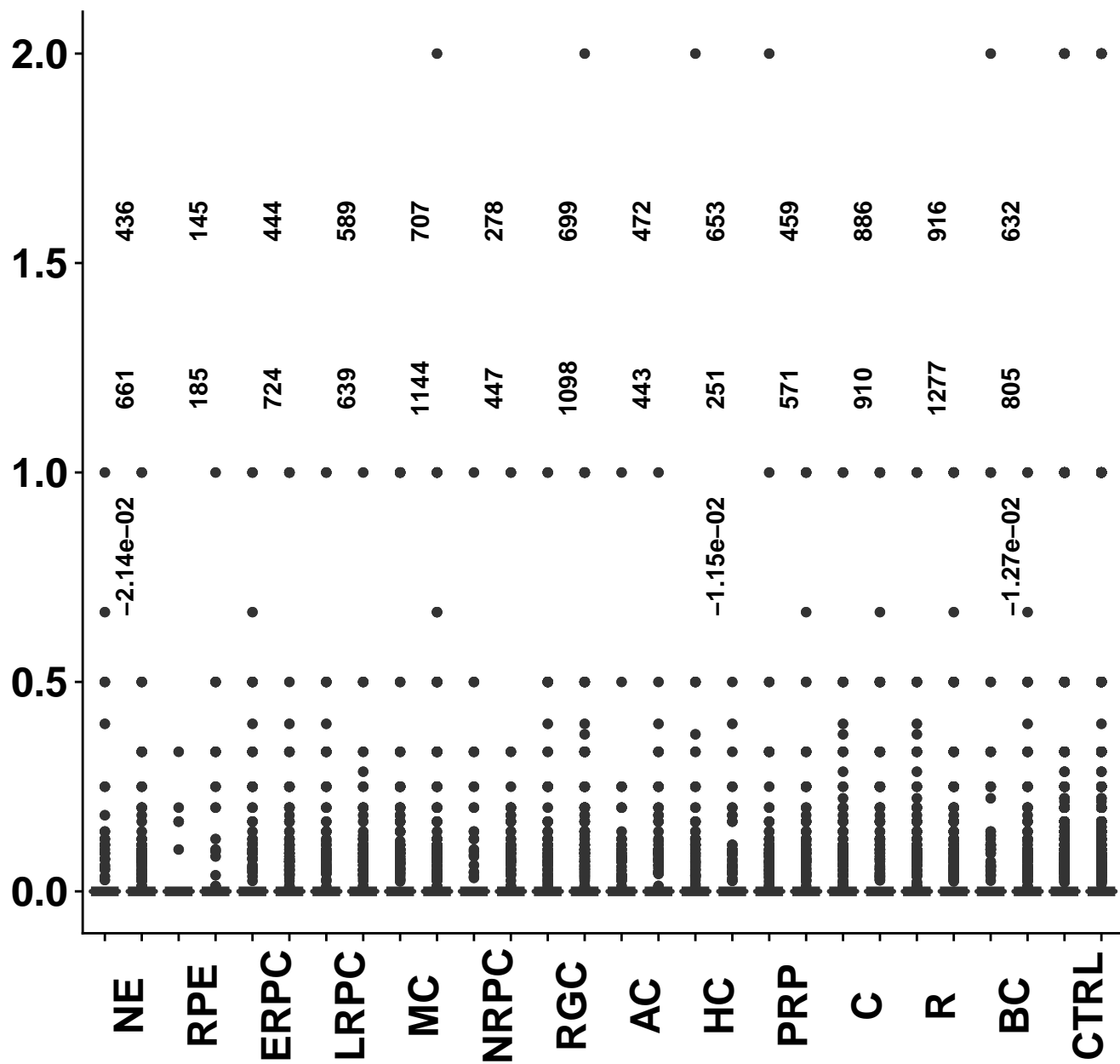
Tfap2c_4_mean



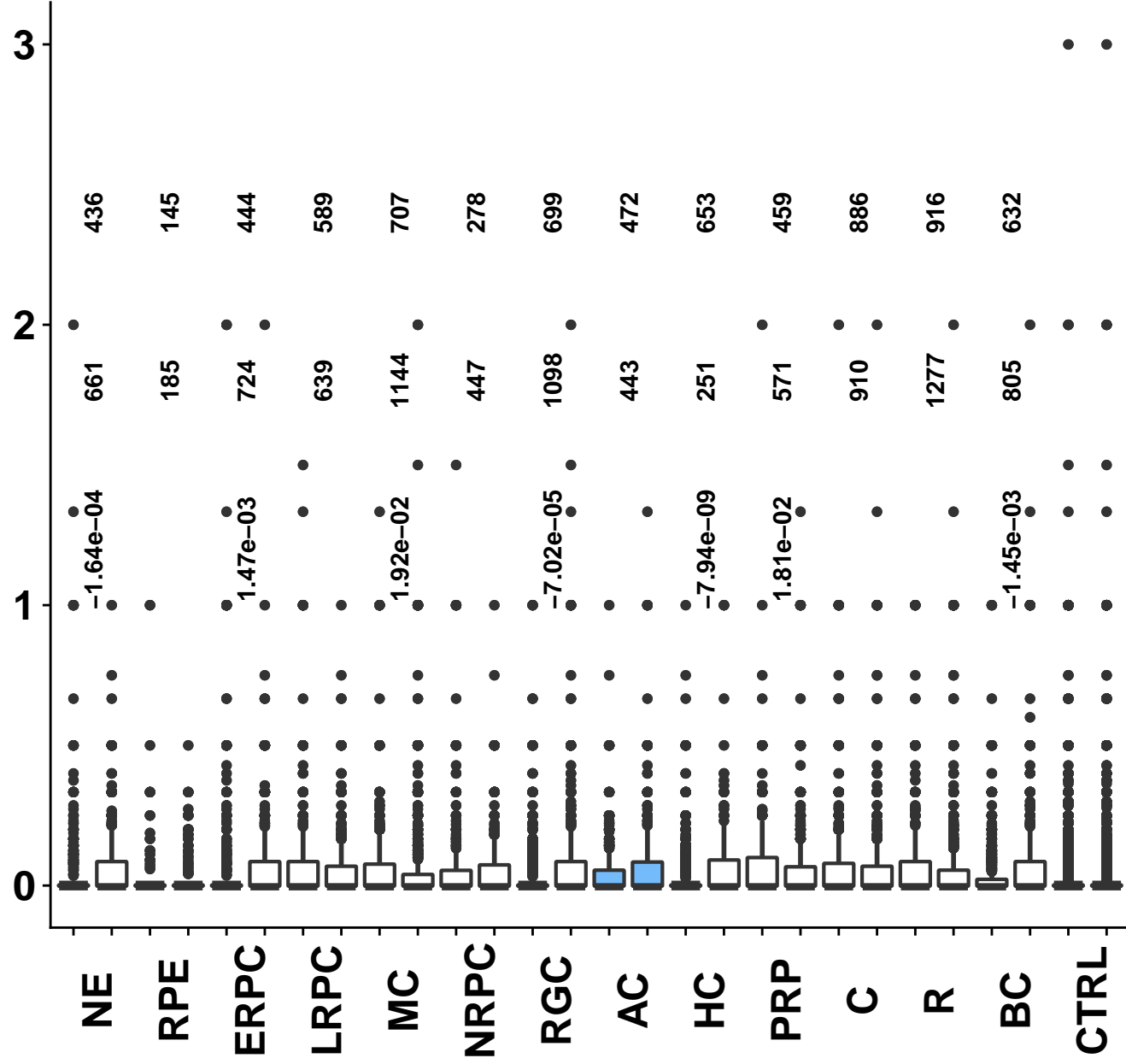
Zbtb12_1_mean



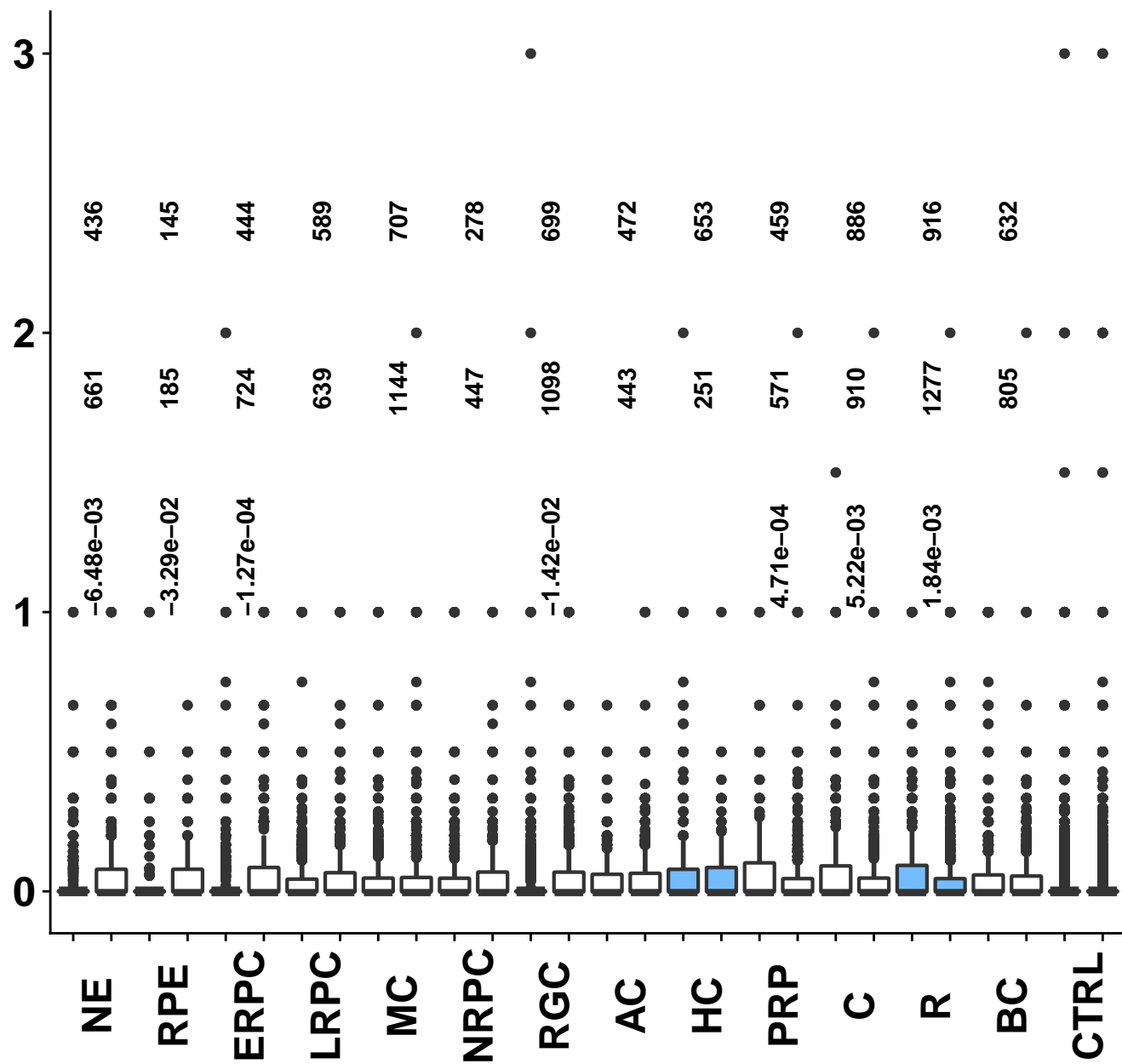
Zbtb12_2_mean



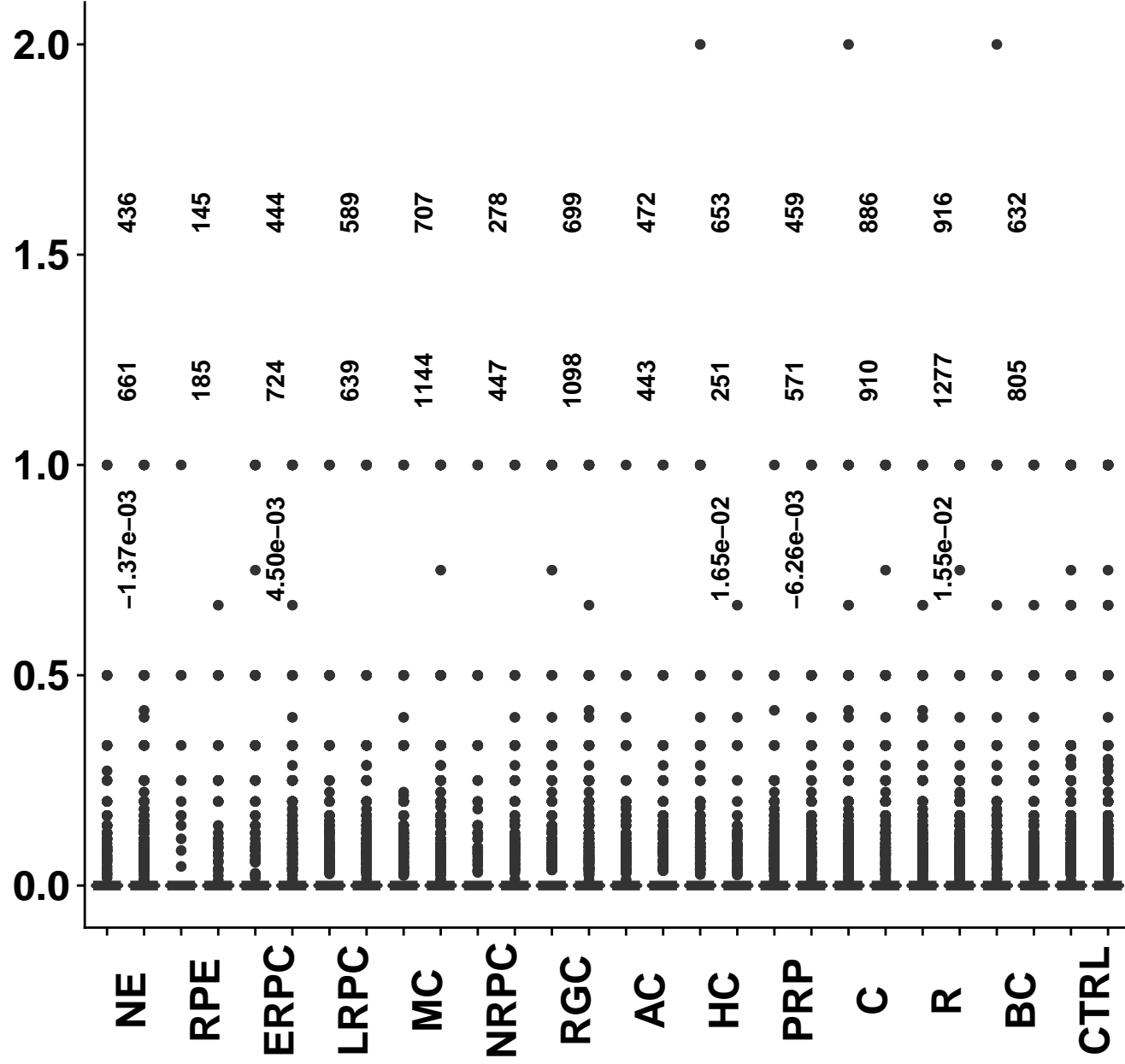
Zbtb12_3_mean



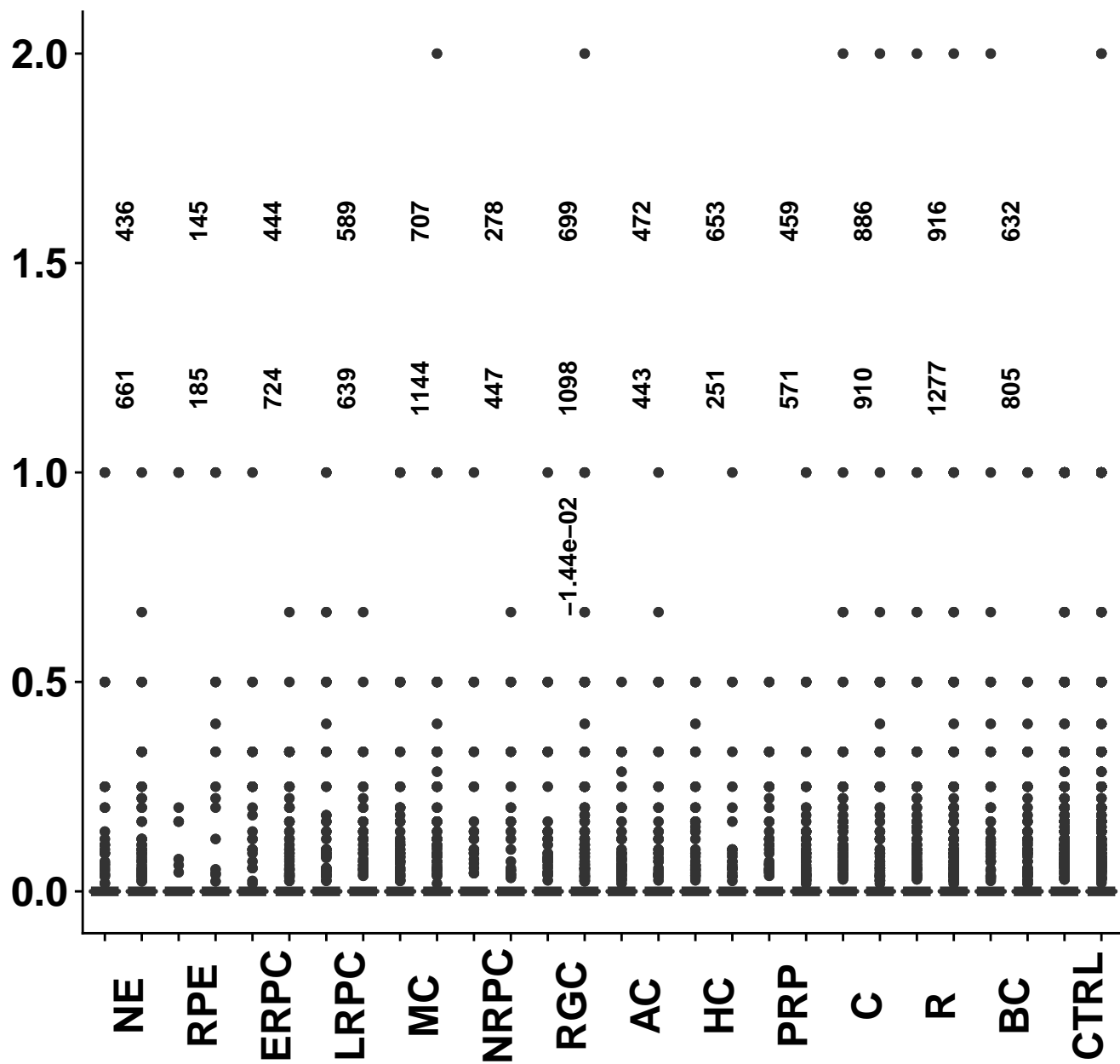
Esrrb_1_mean



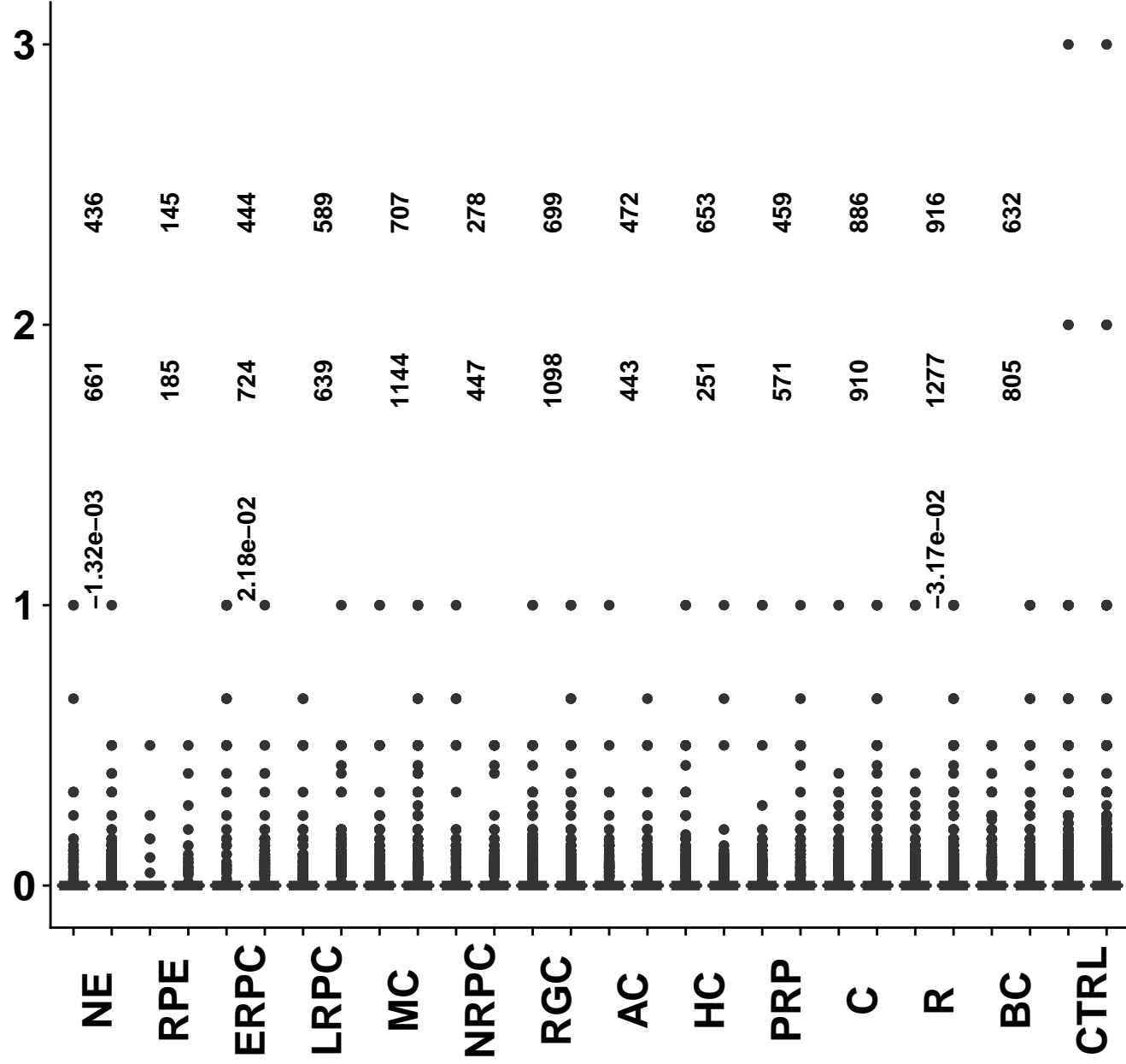
Esrrb_2_mean



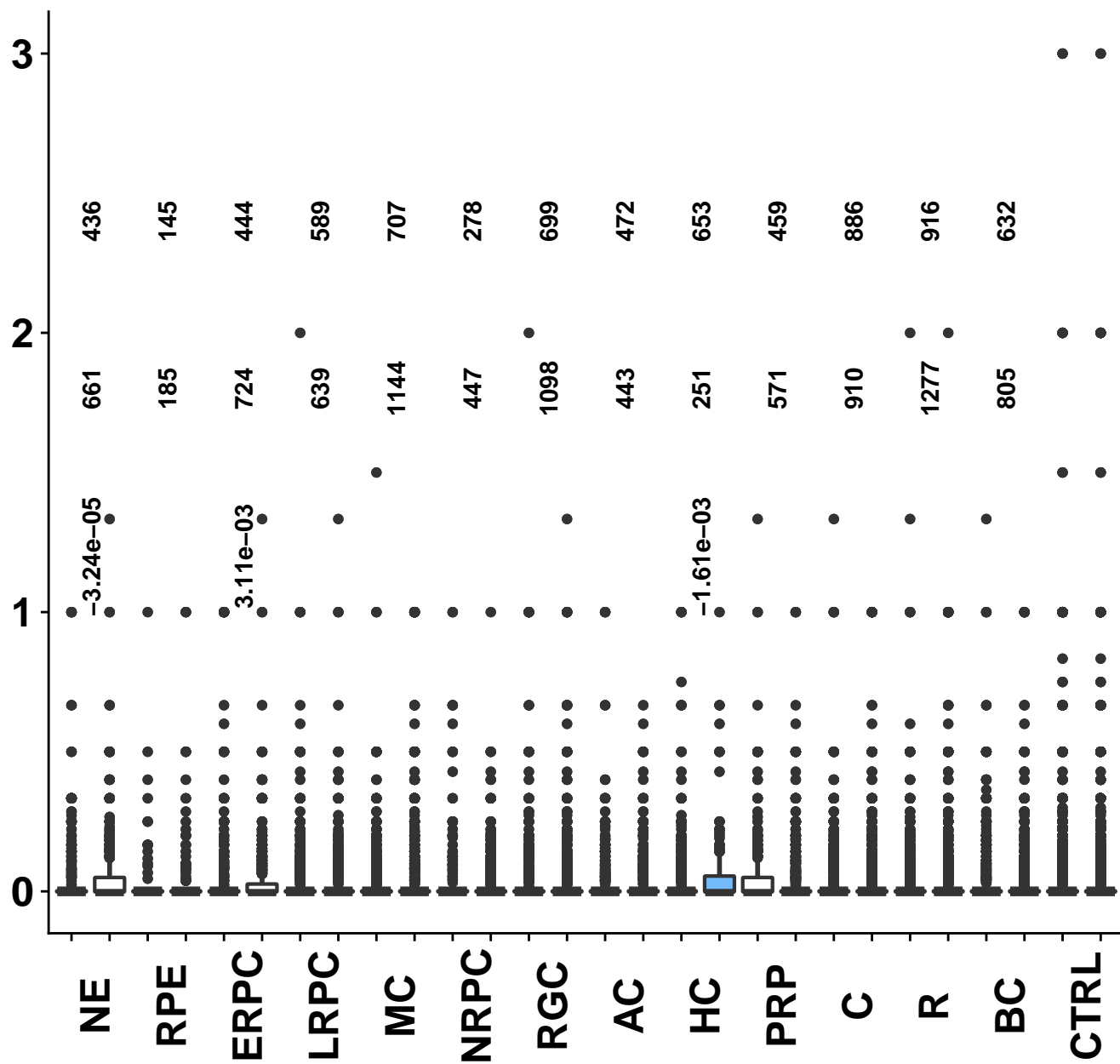
Prox1_1_mean



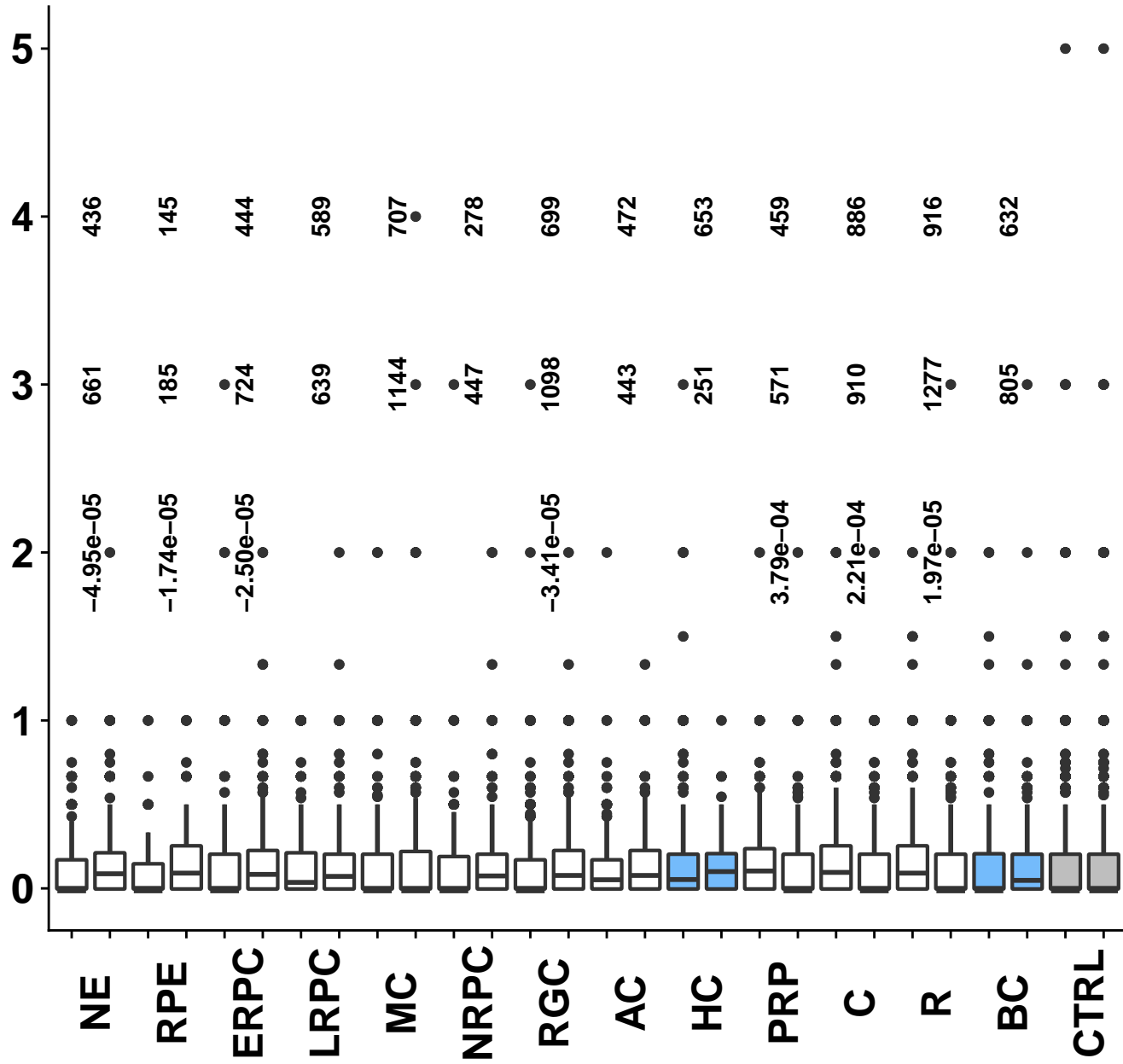
Cux2_1_mean



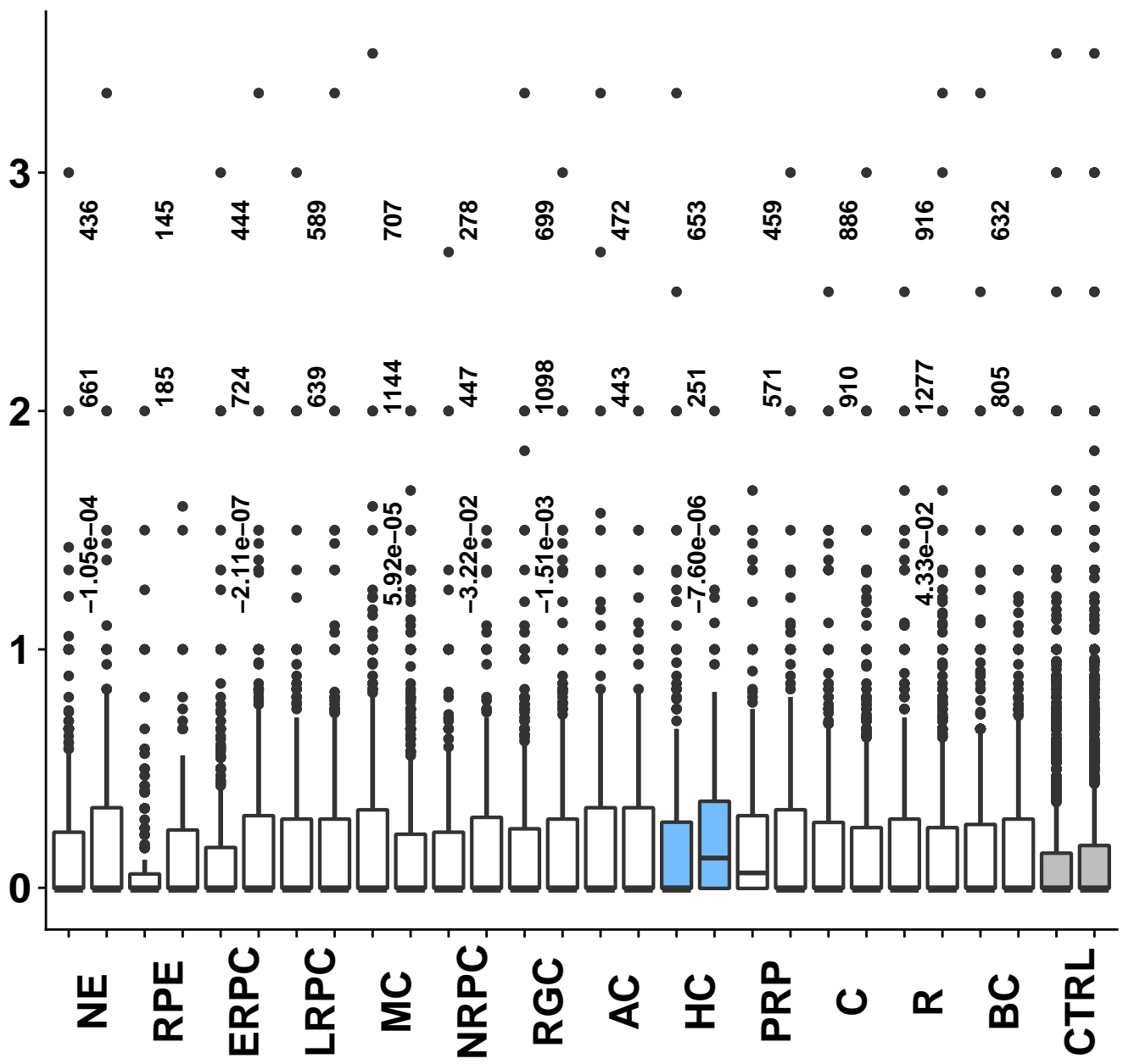
Cux2_2_mean



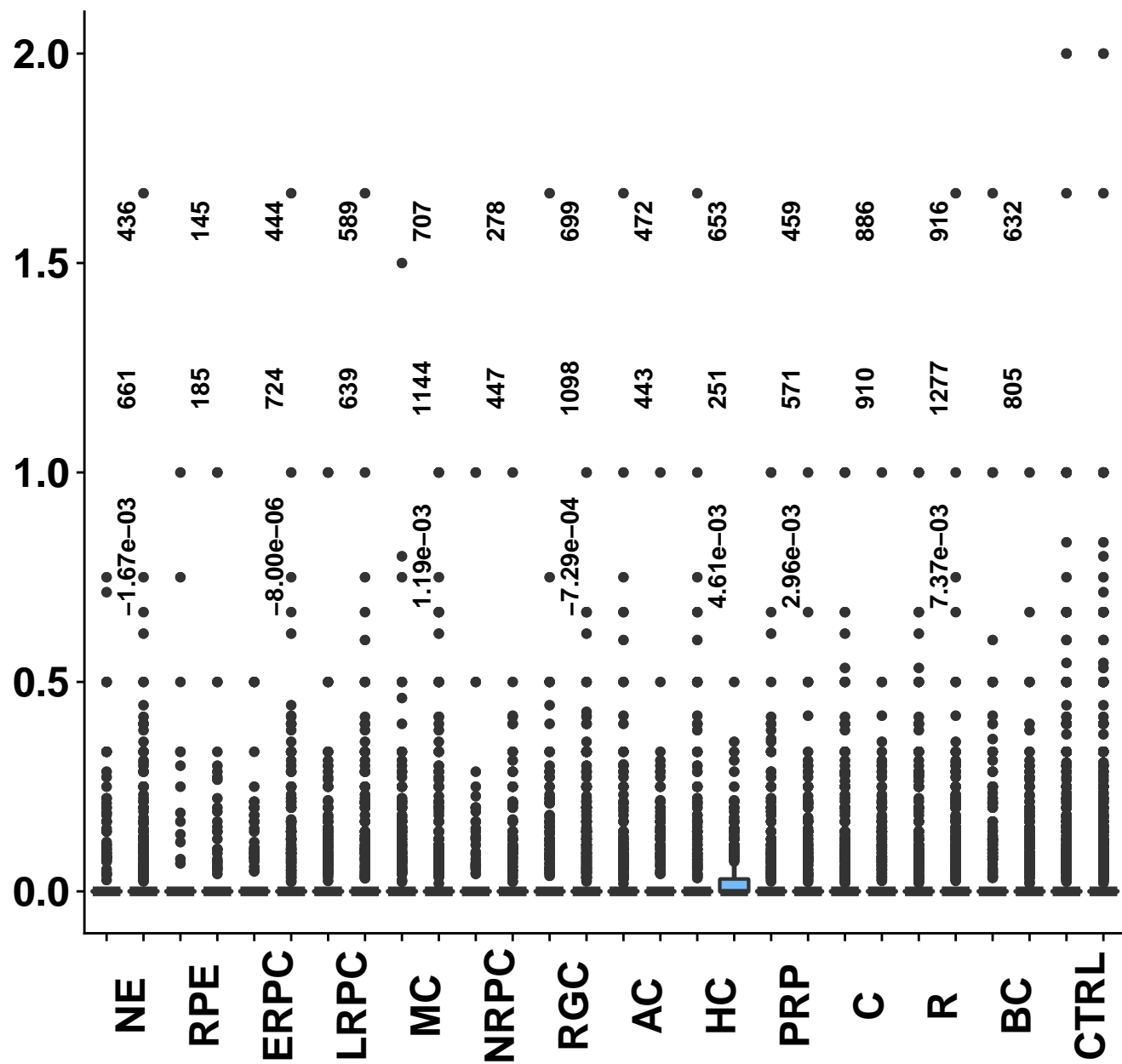
Esrrg_1_mean



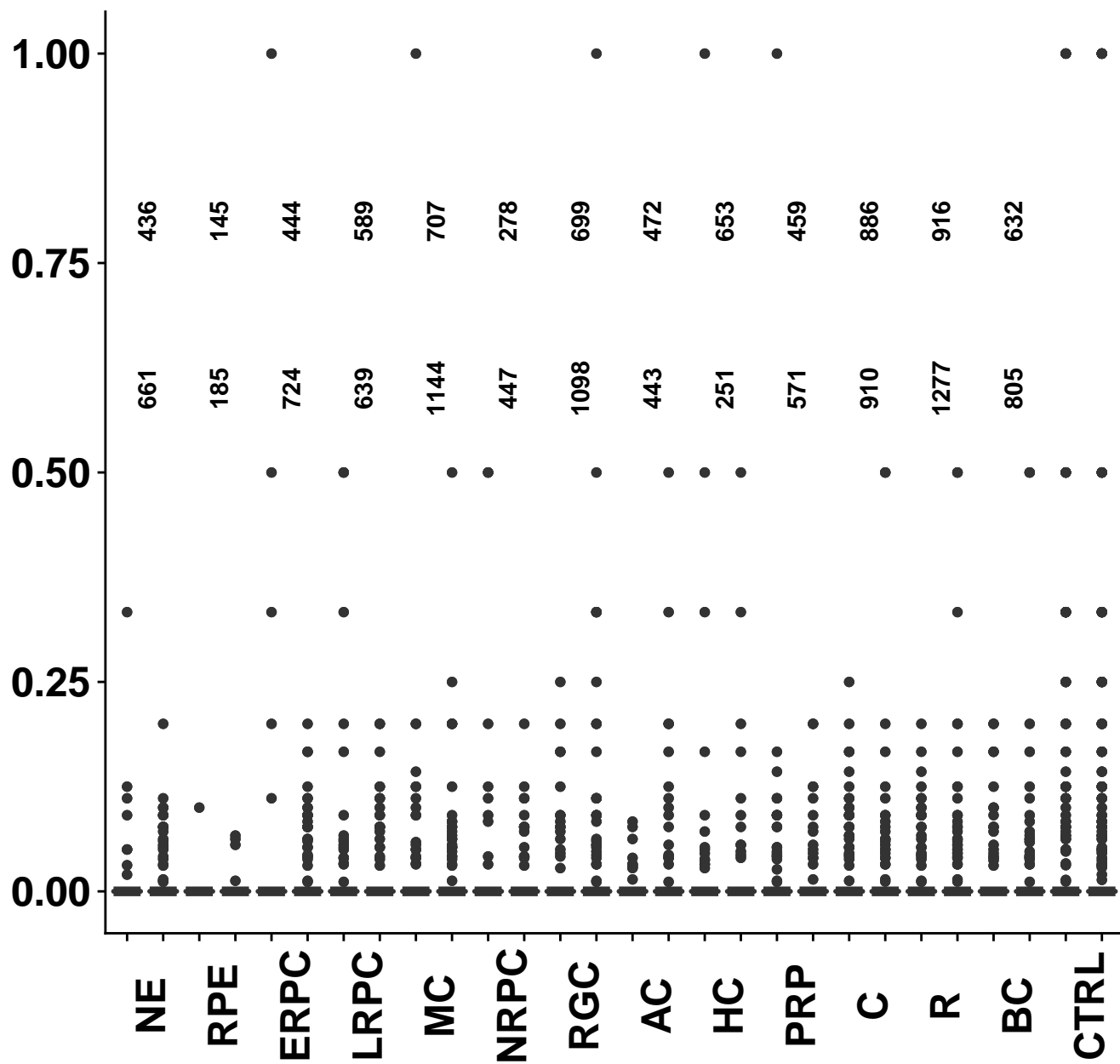
Lhx1_1_mean



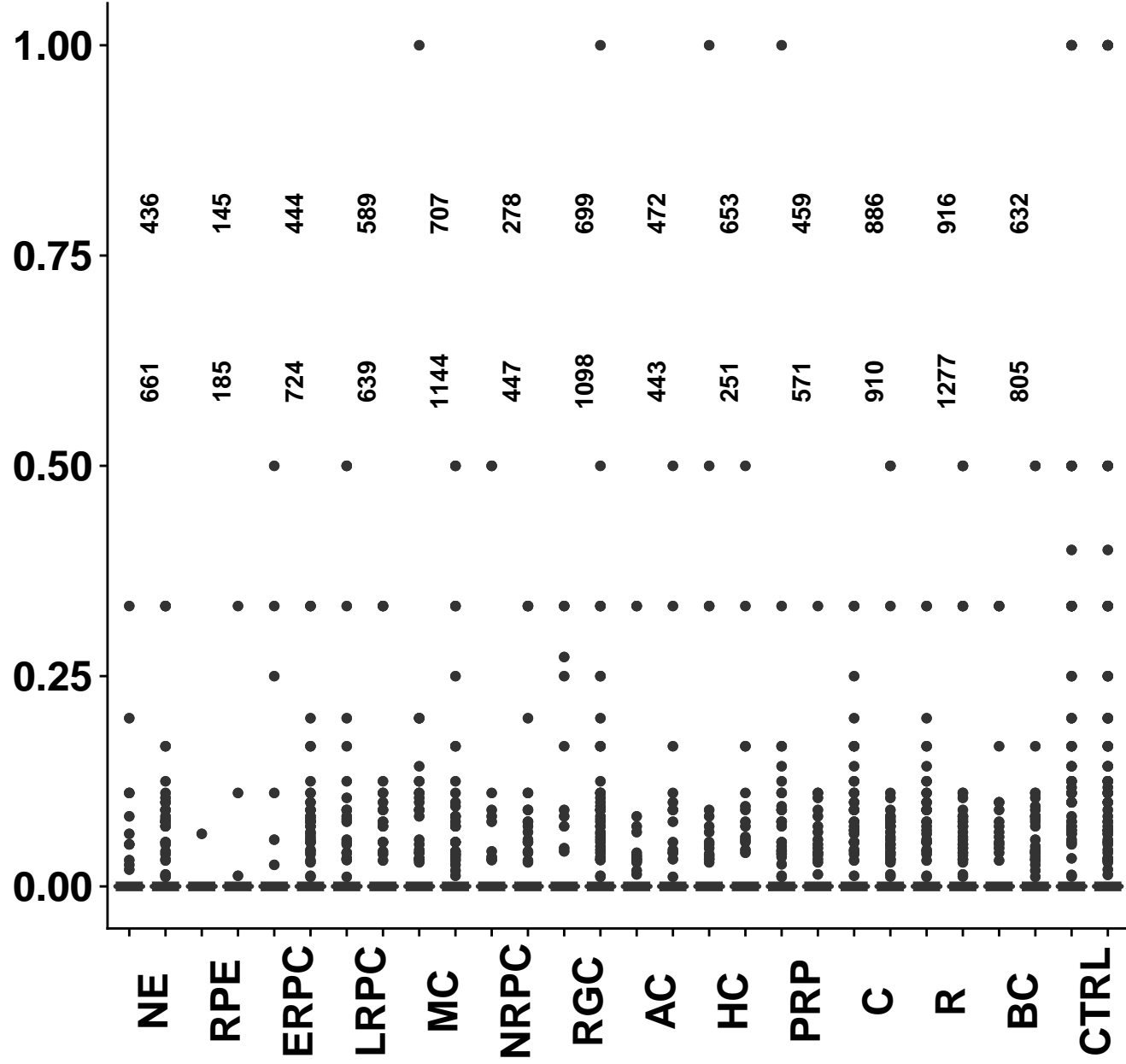
Lhx1_2_mean



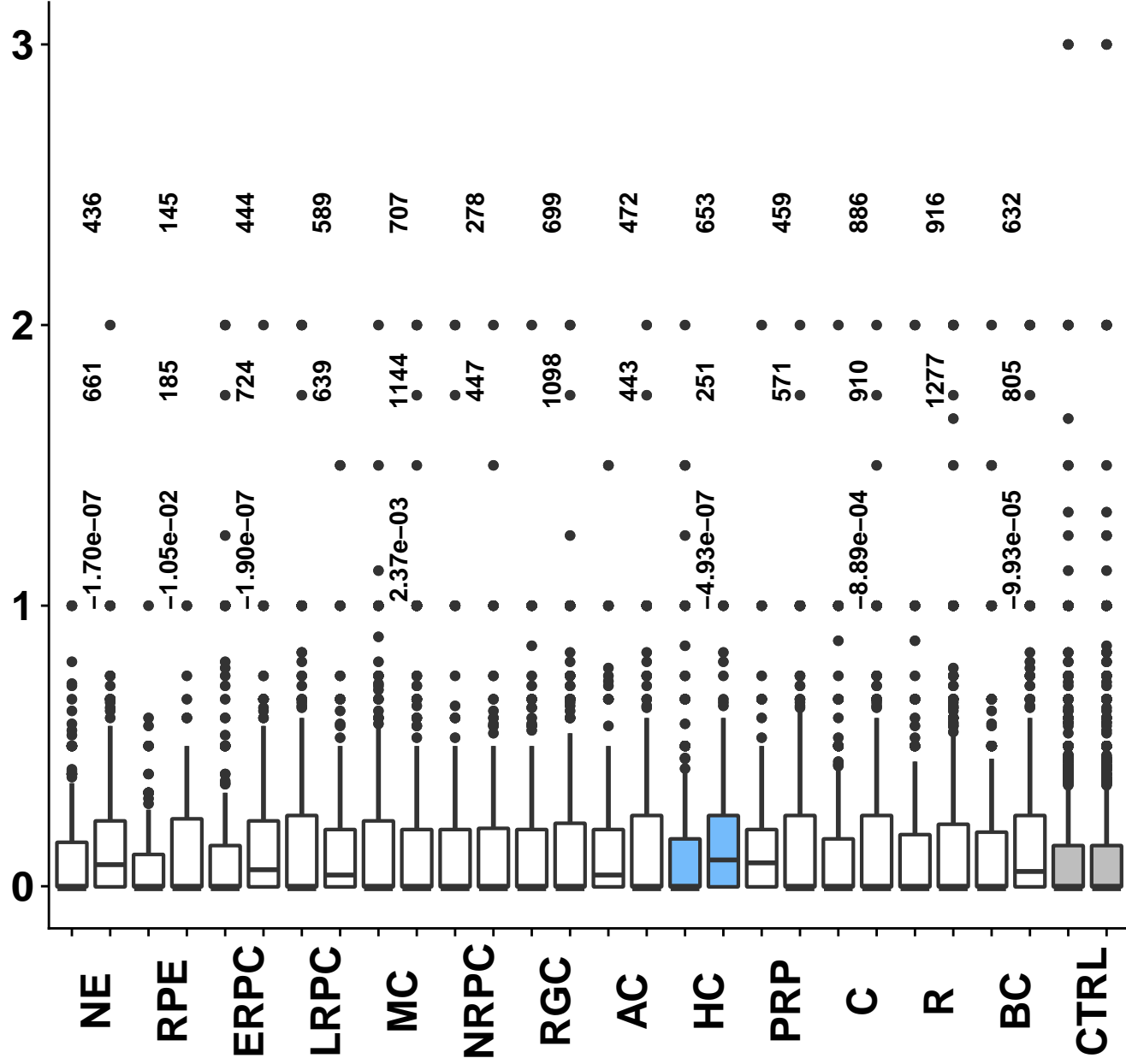
Onecut1_1_mean



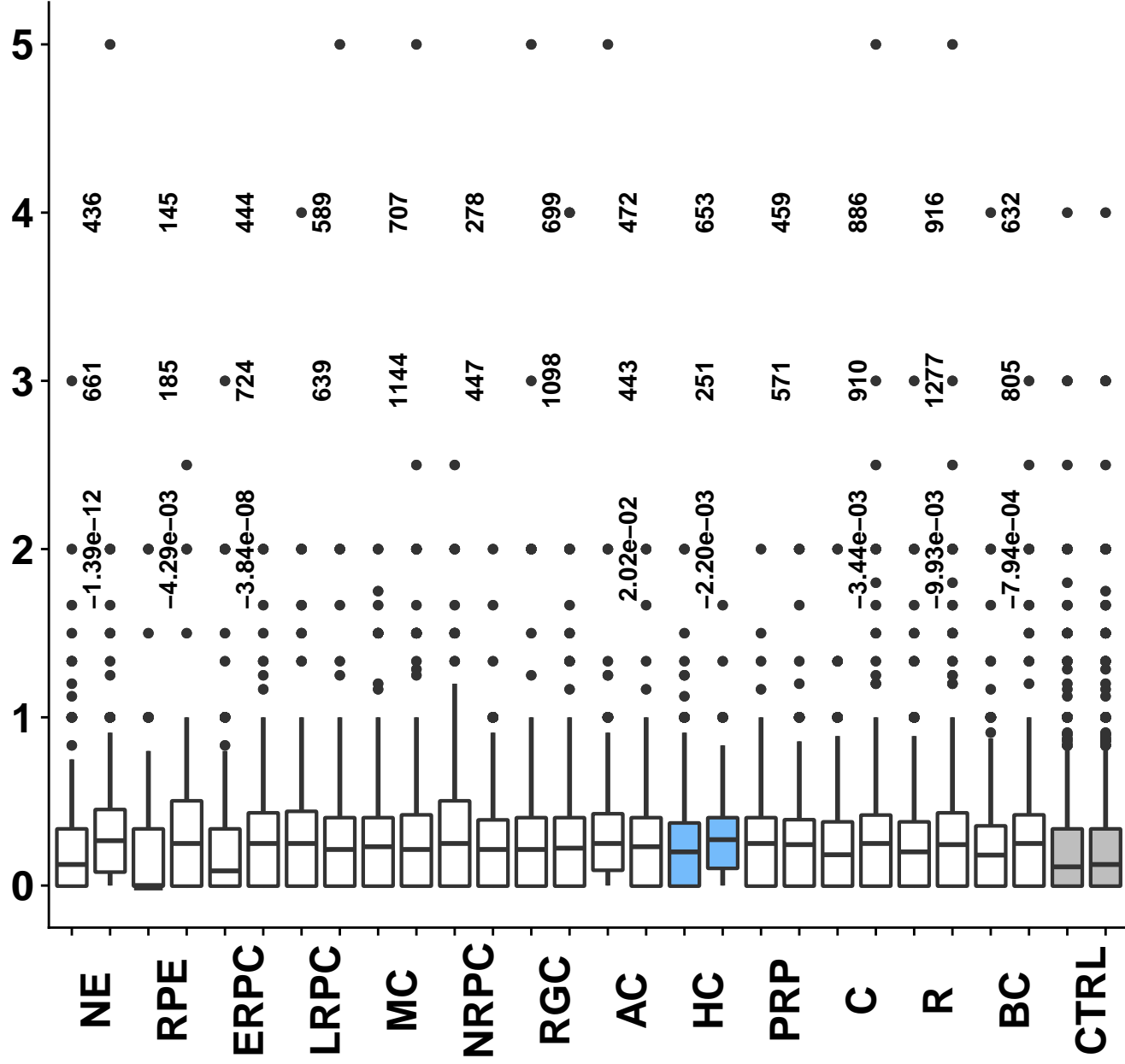
Onecut3_1_mean



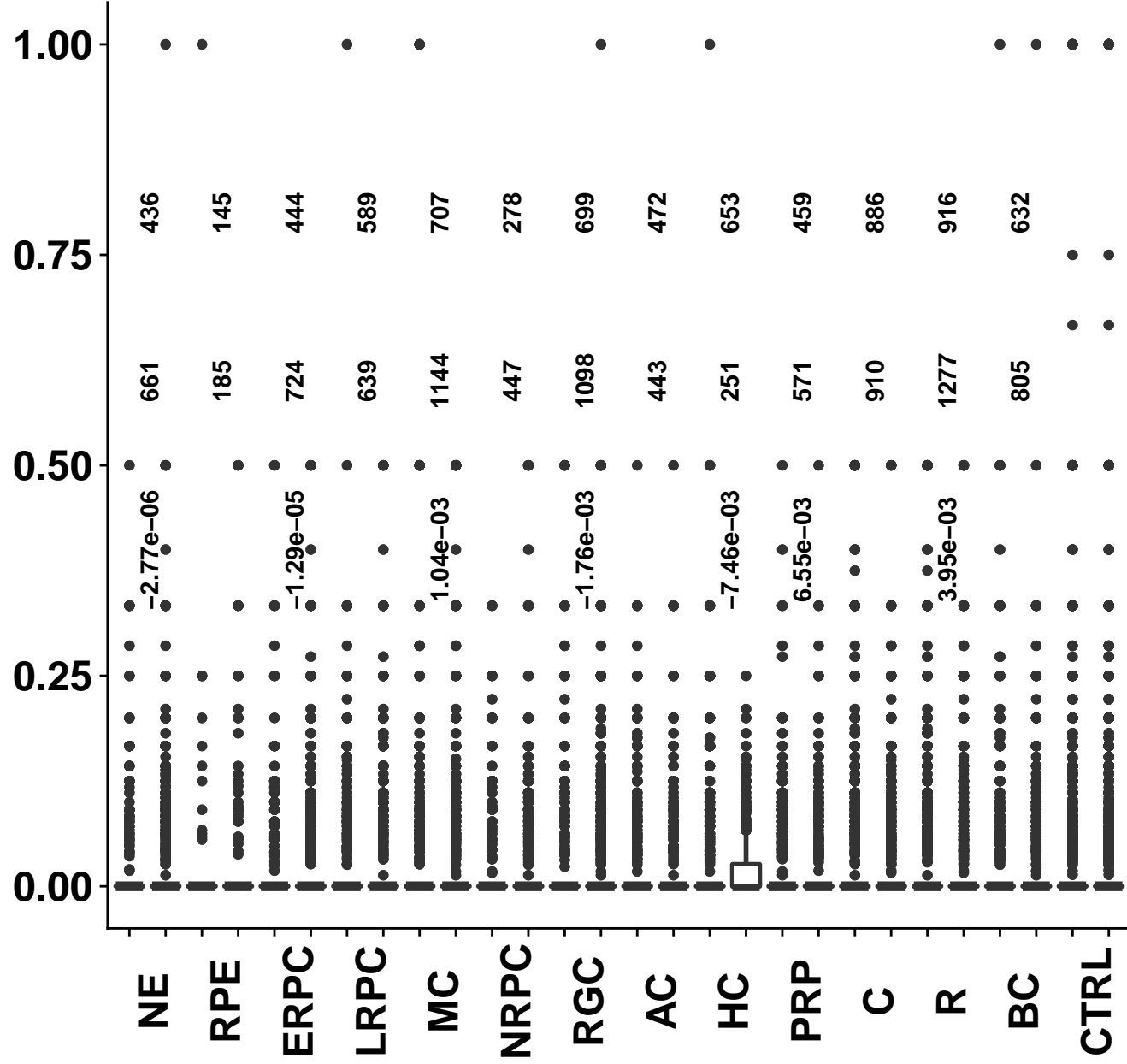
Sox12_1_mean



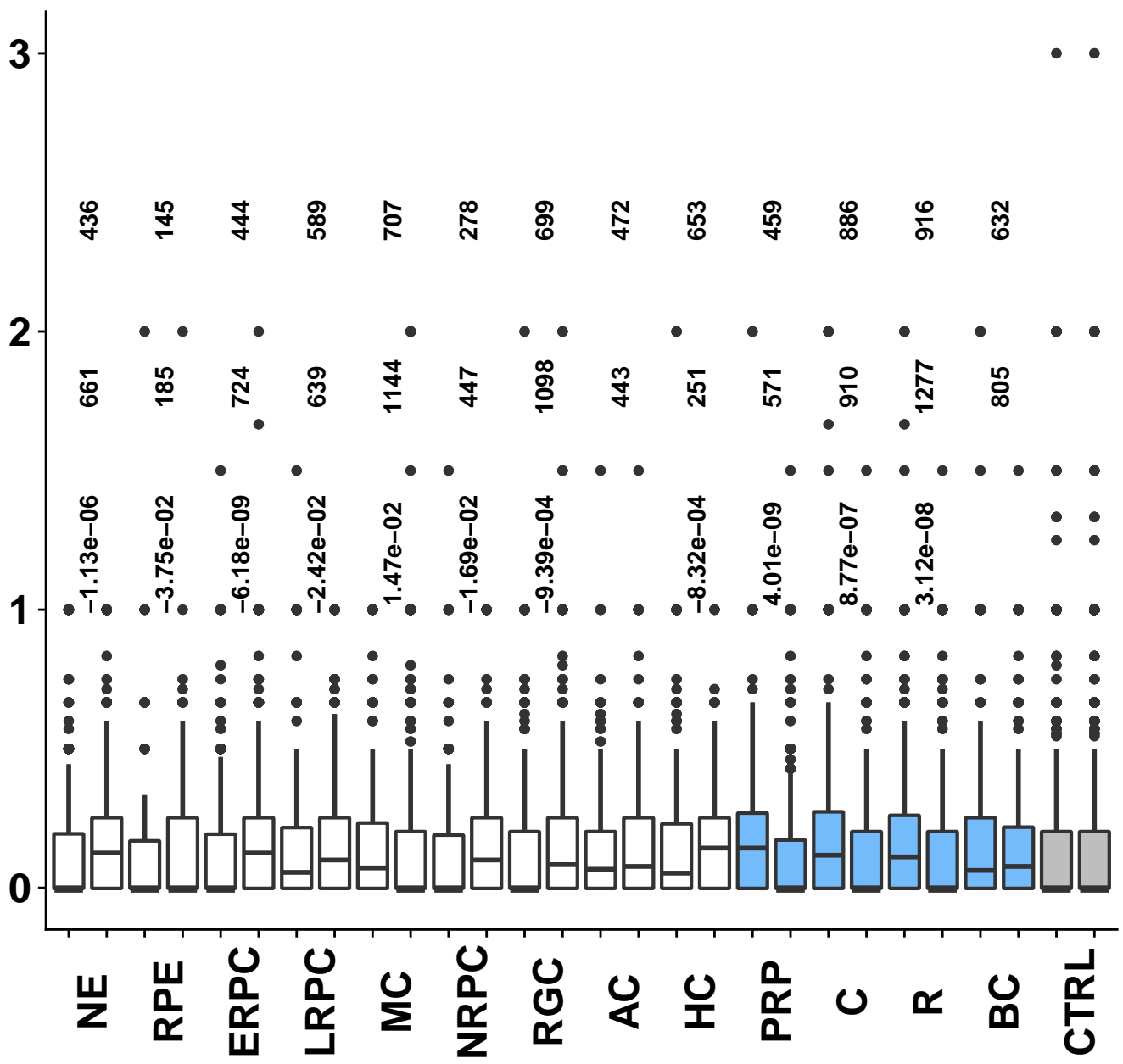
Sox12_2_mean



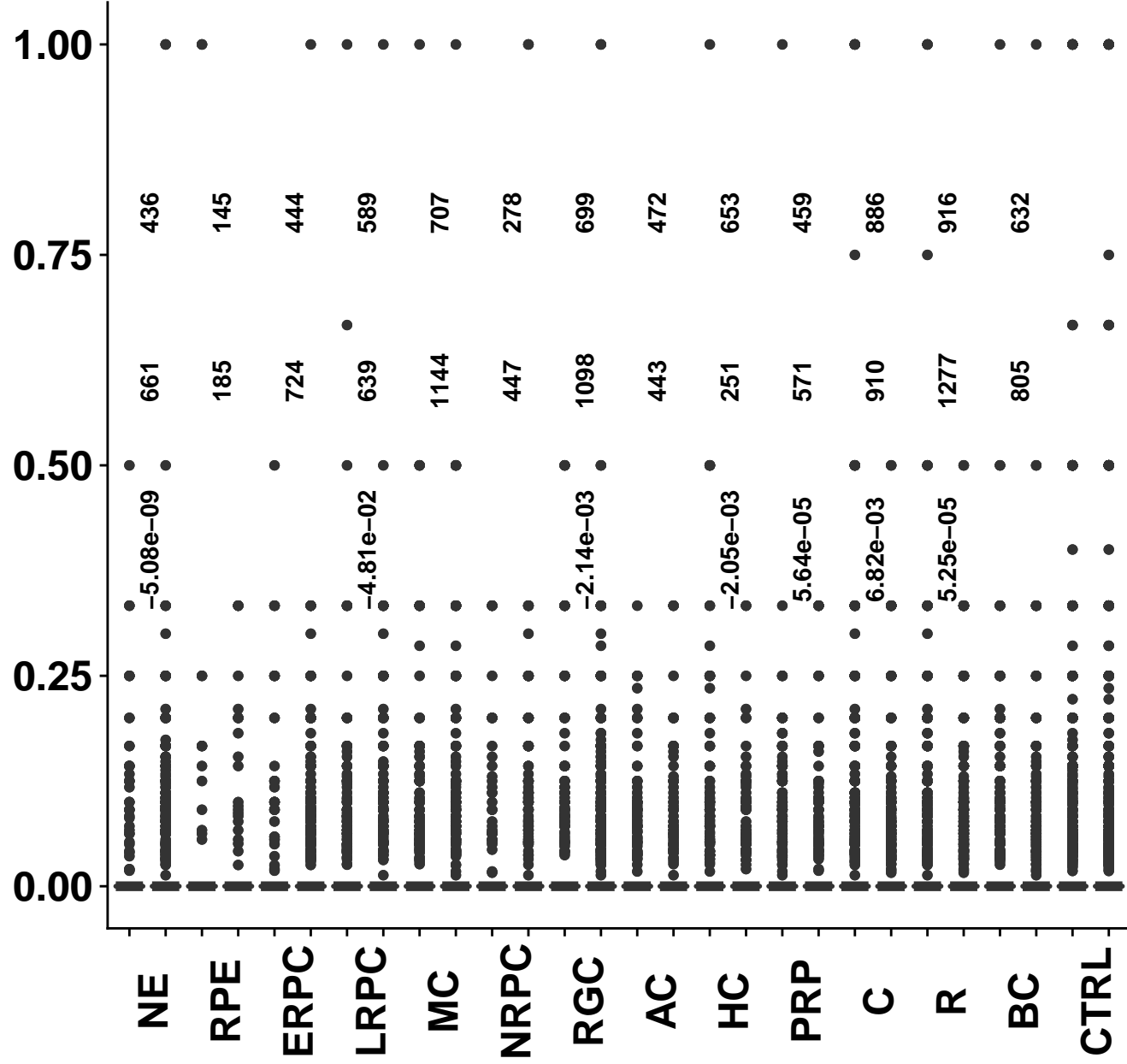
Rora_1_mean



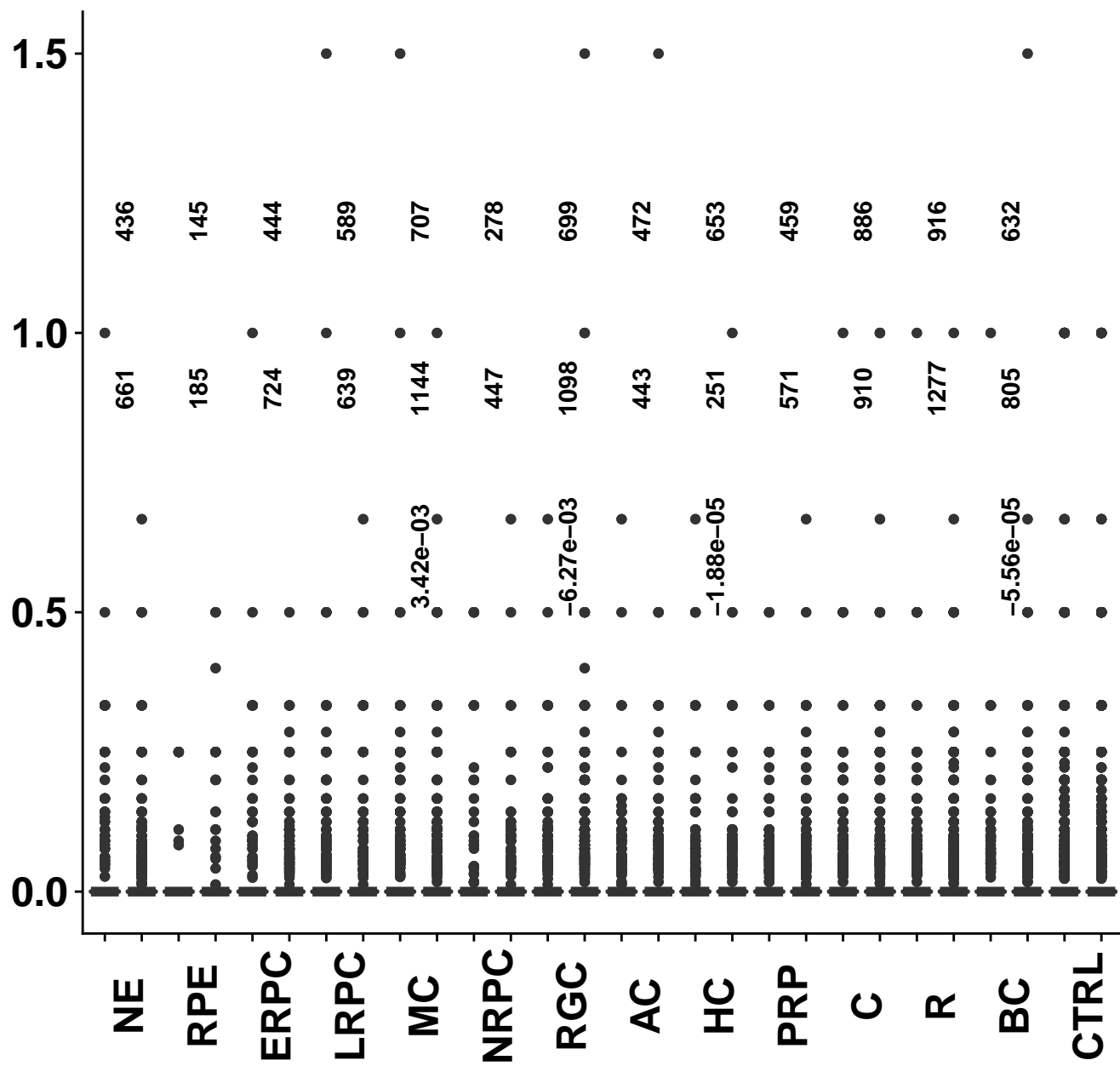
Rora_2_mean



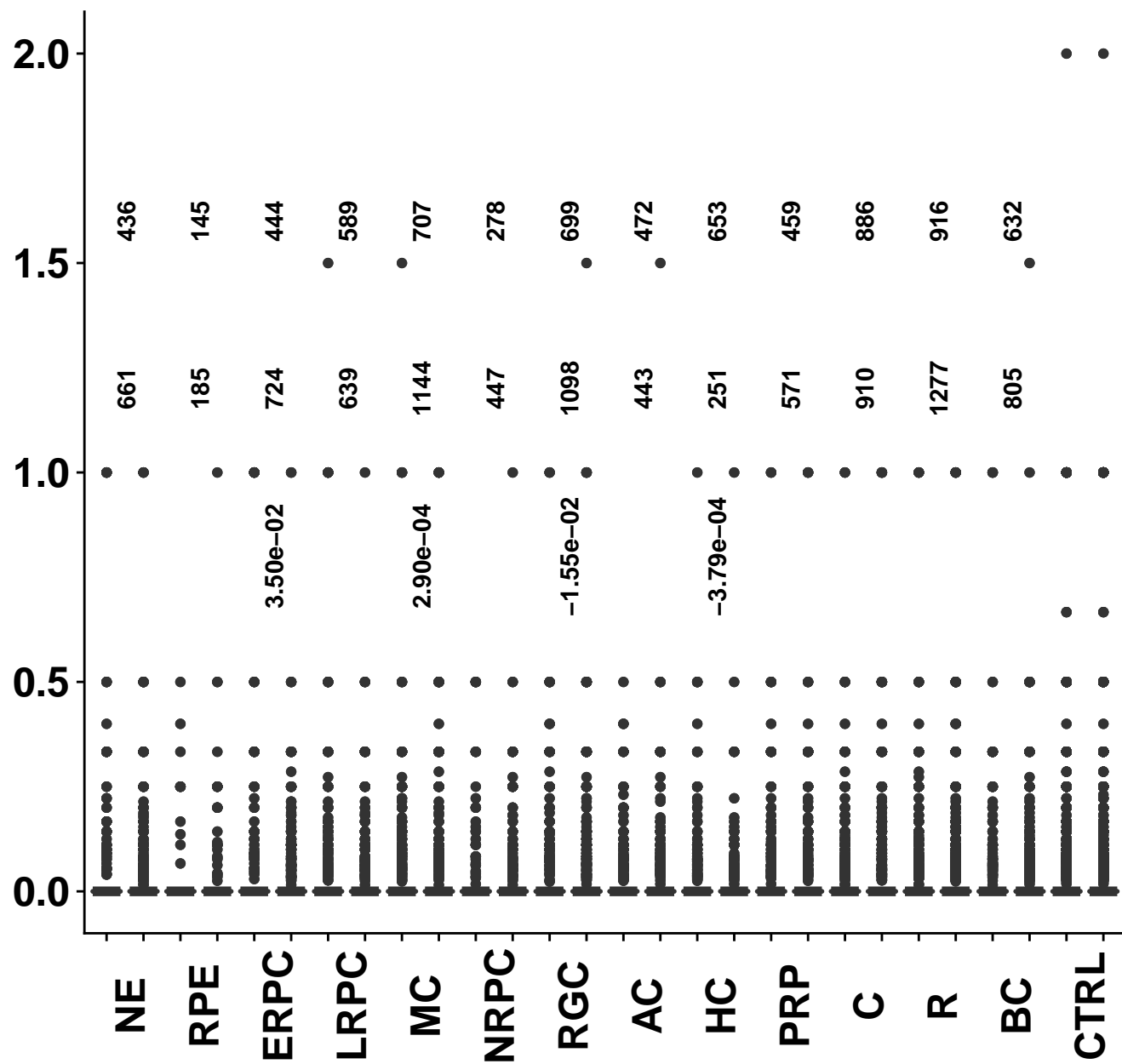
Rora_3_mean



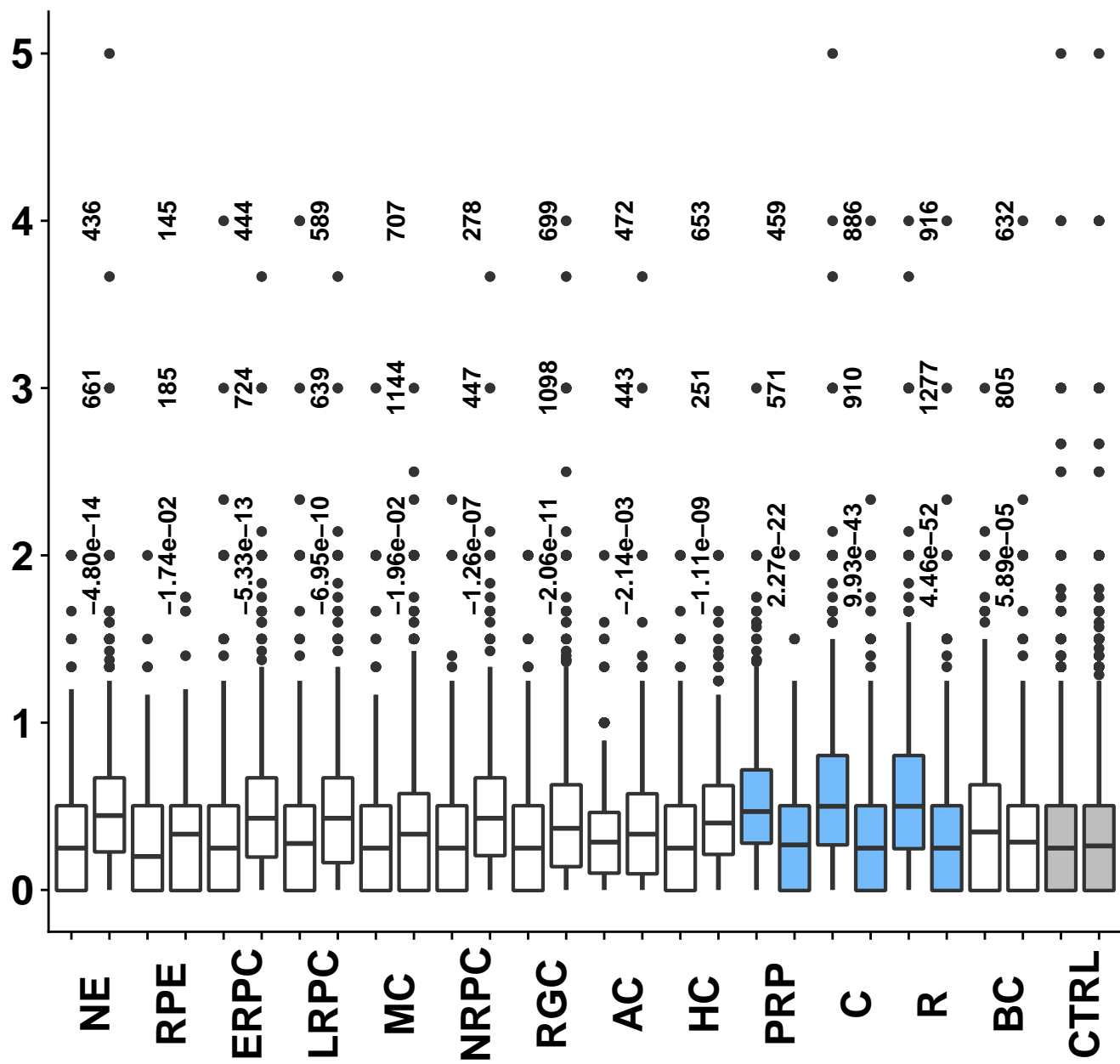
Atf4_1_mean



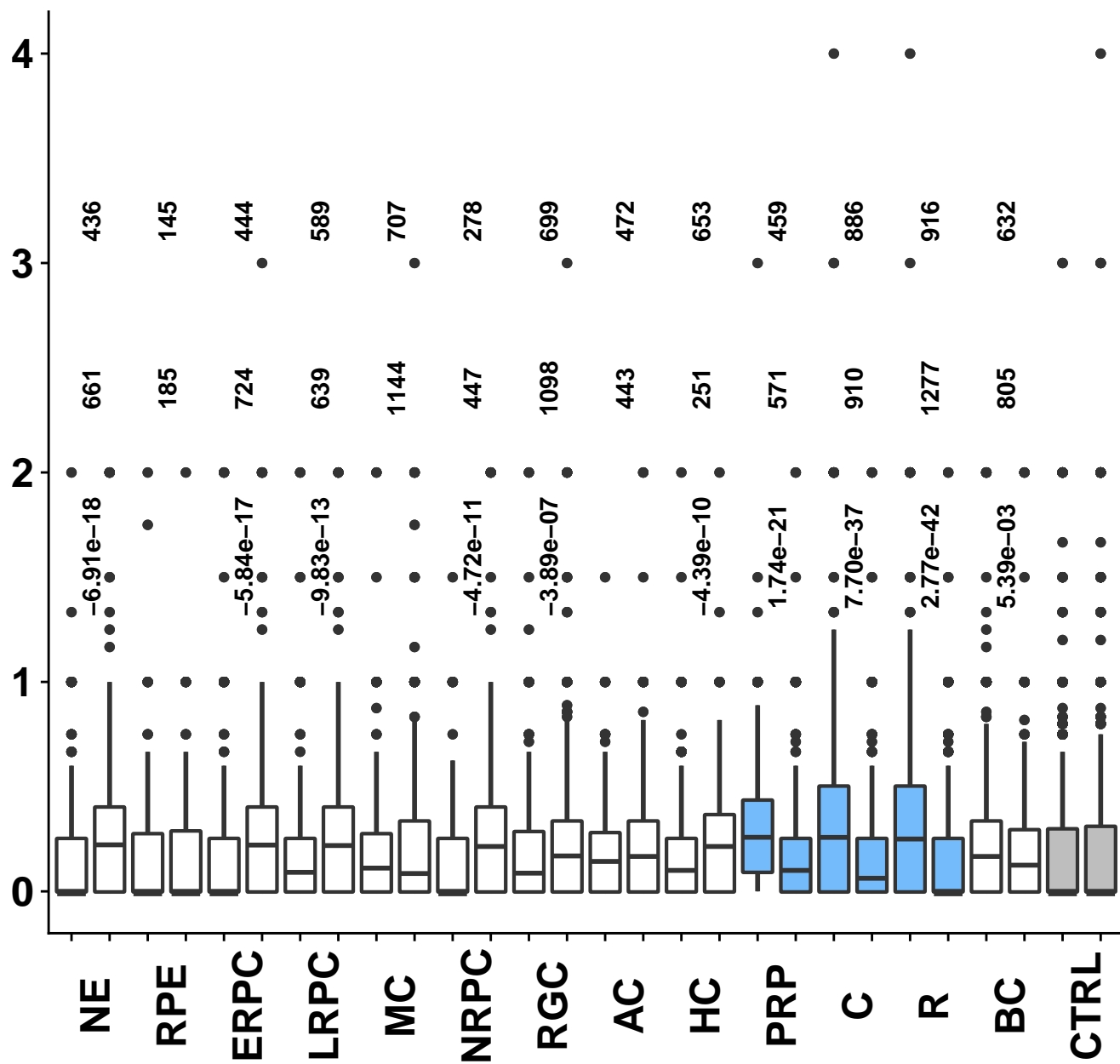
Atf4_2_mean



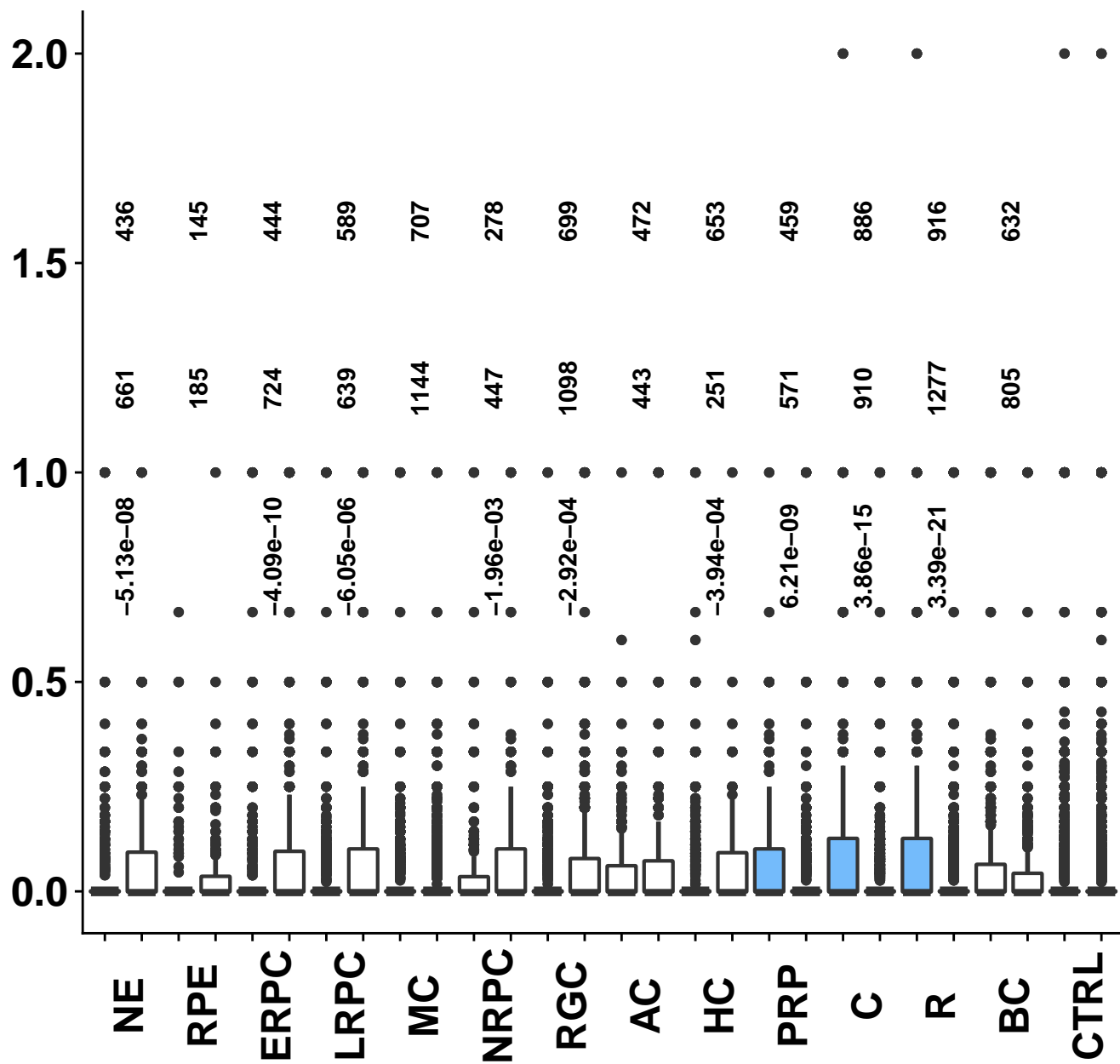
Crx_1_mean



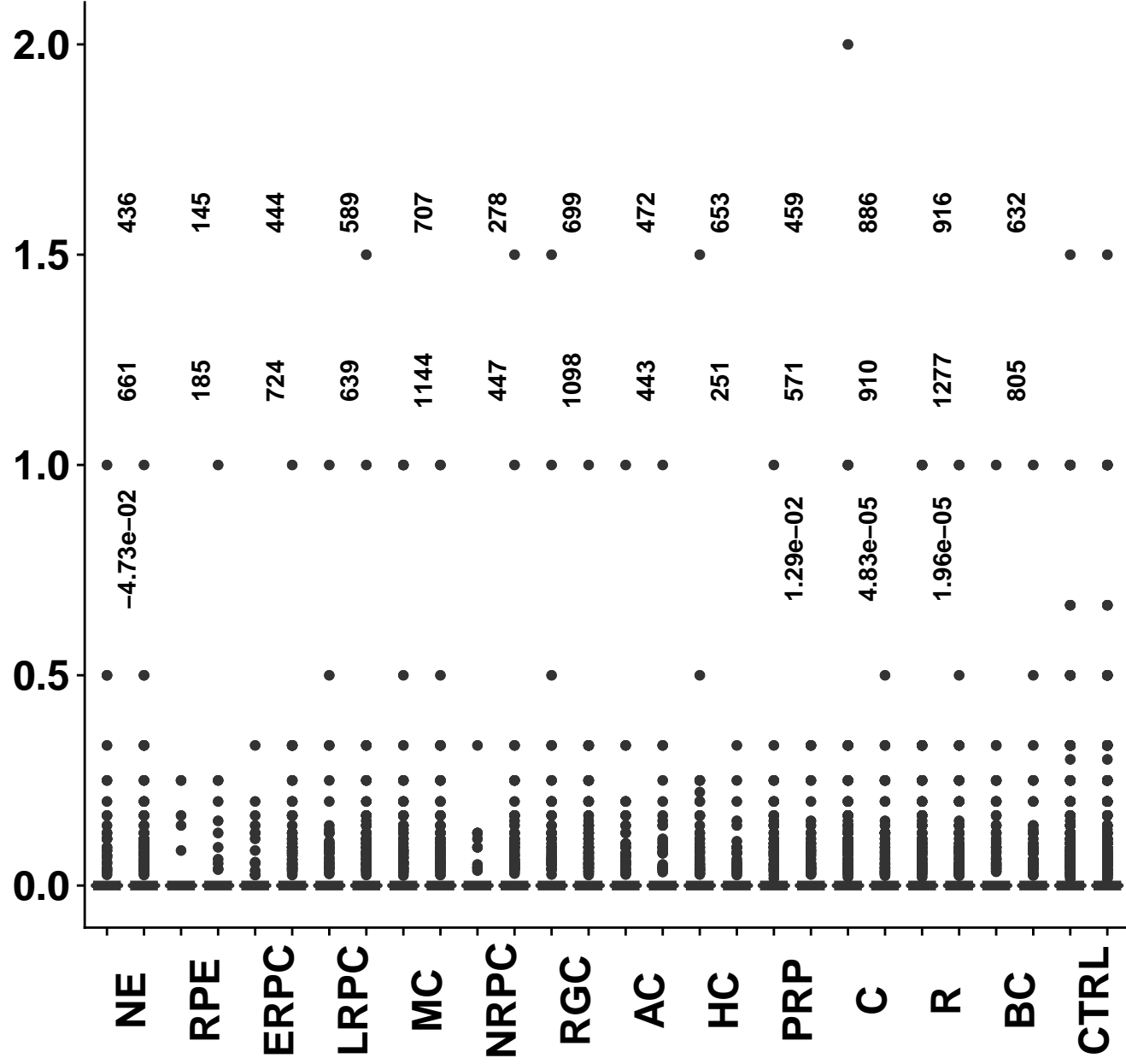
Crx_2_mean



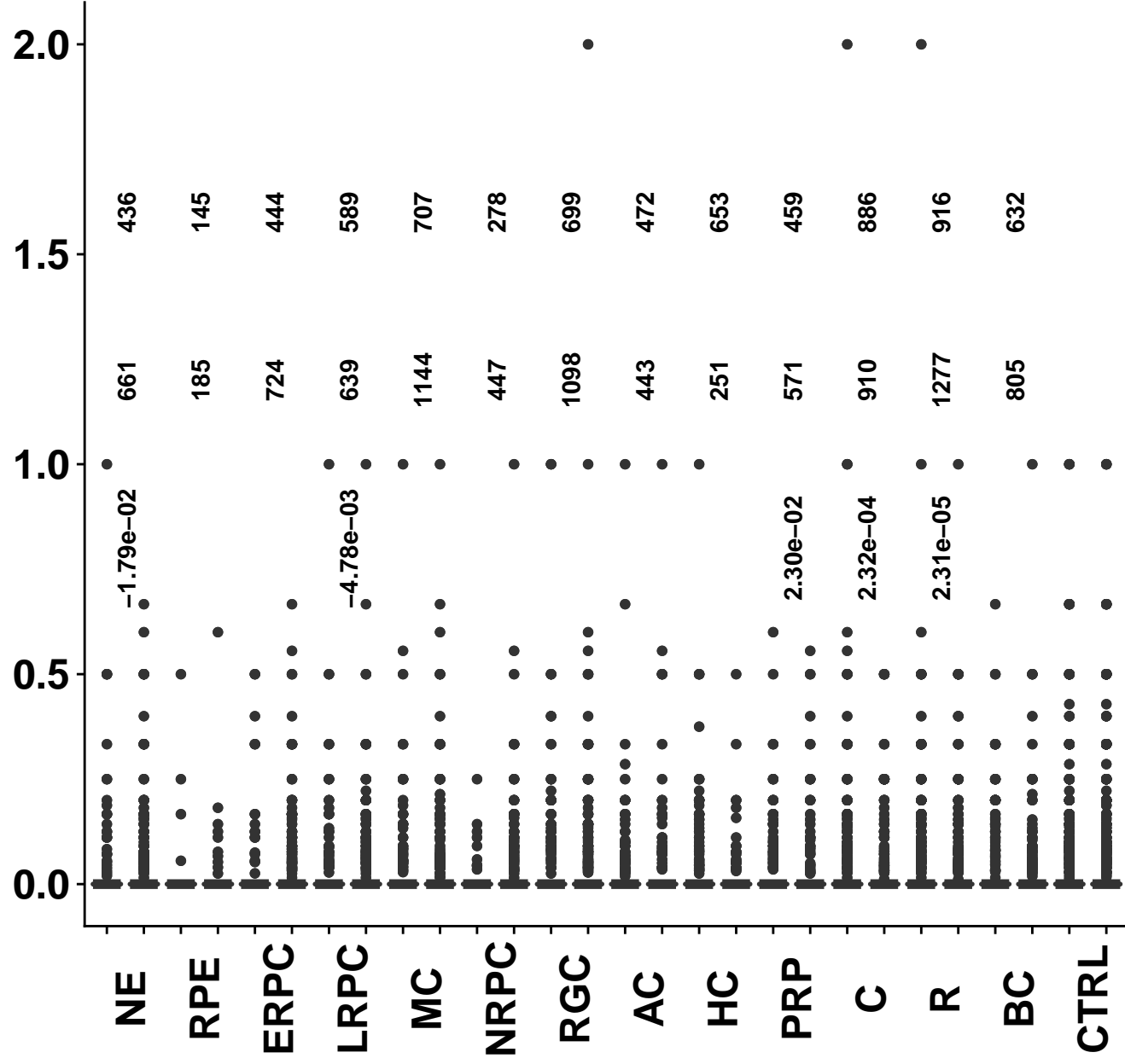
Crx_3_mean



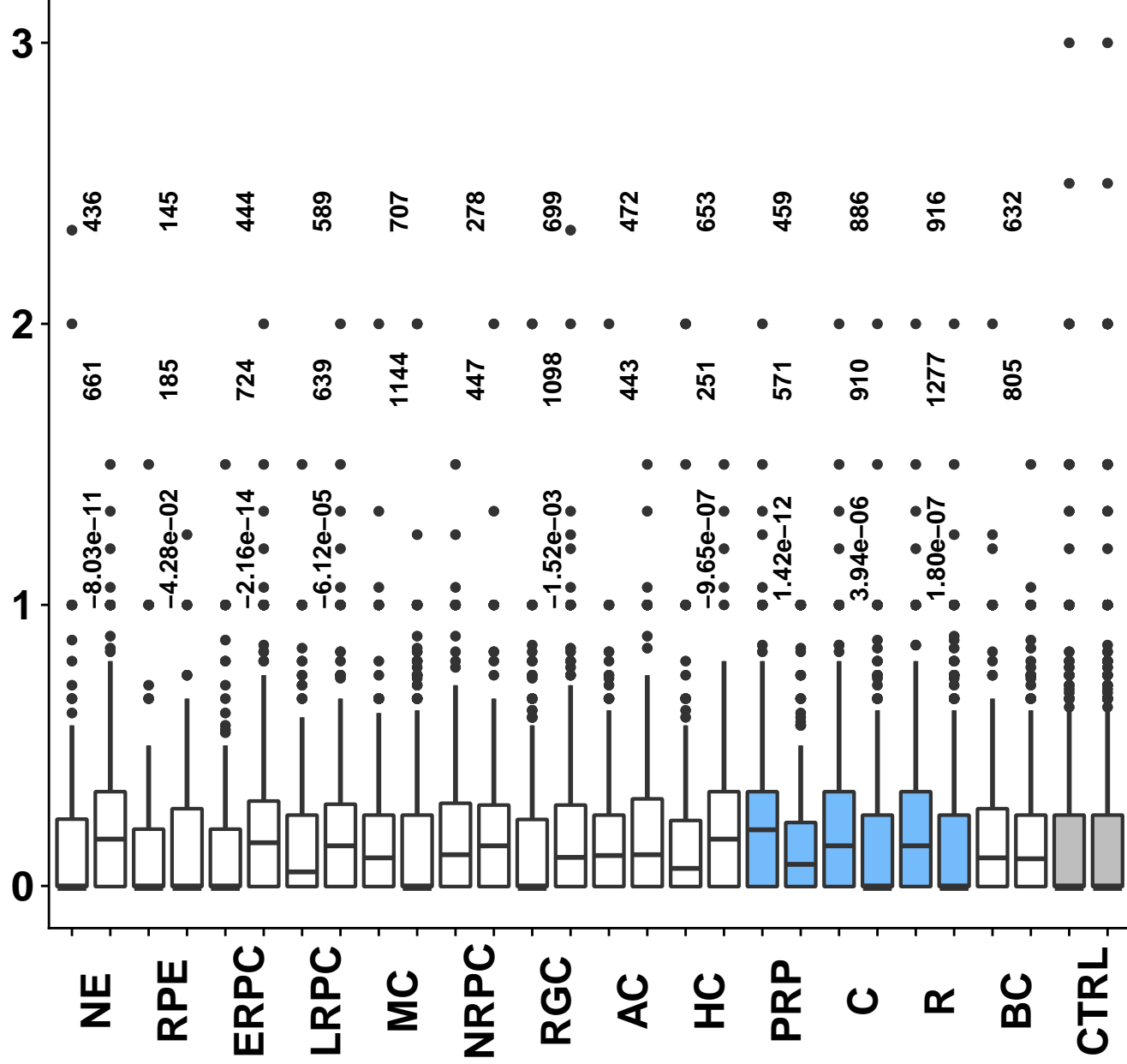
Mef2d_1_mean



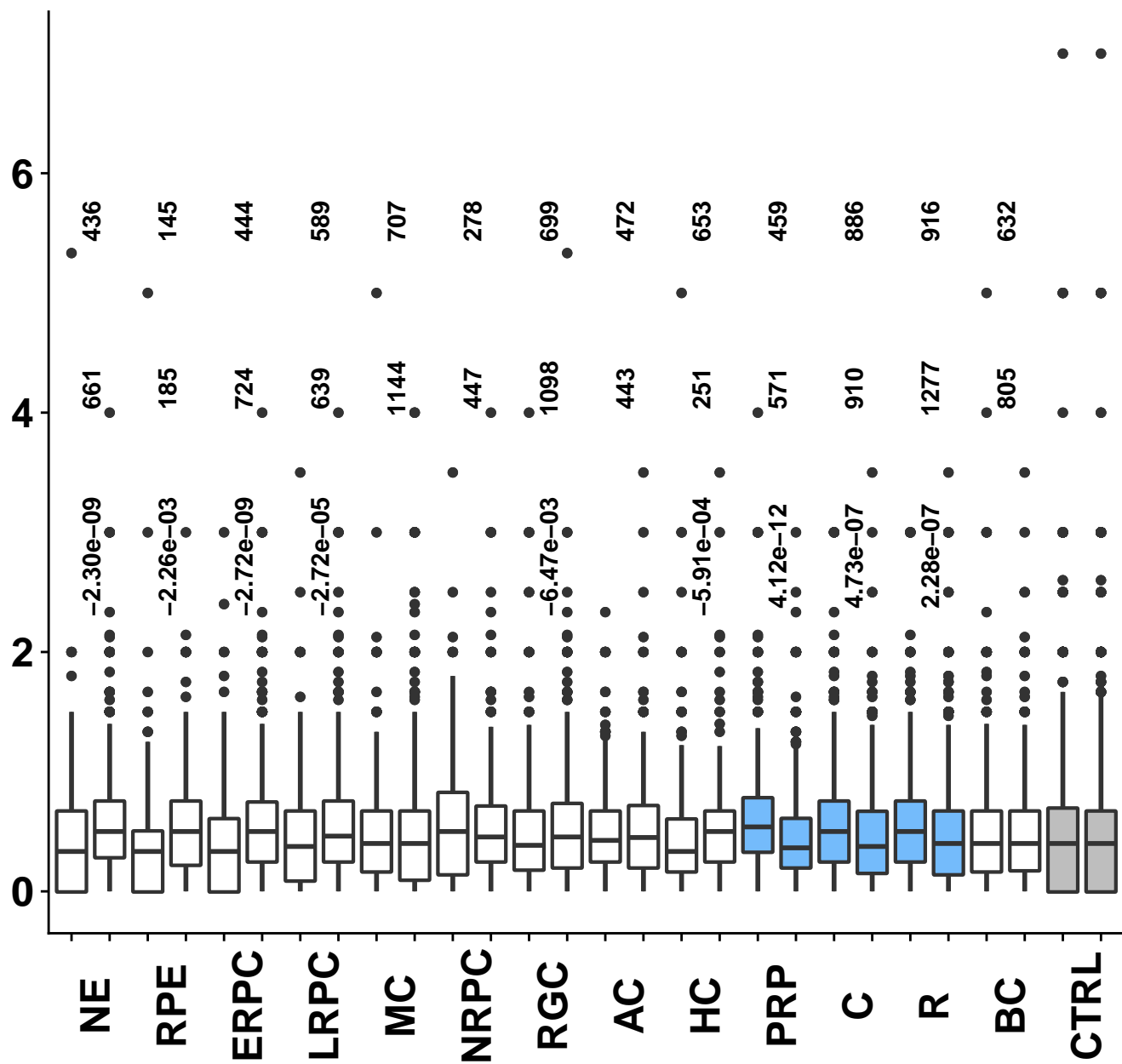
Mef2d_2_mean



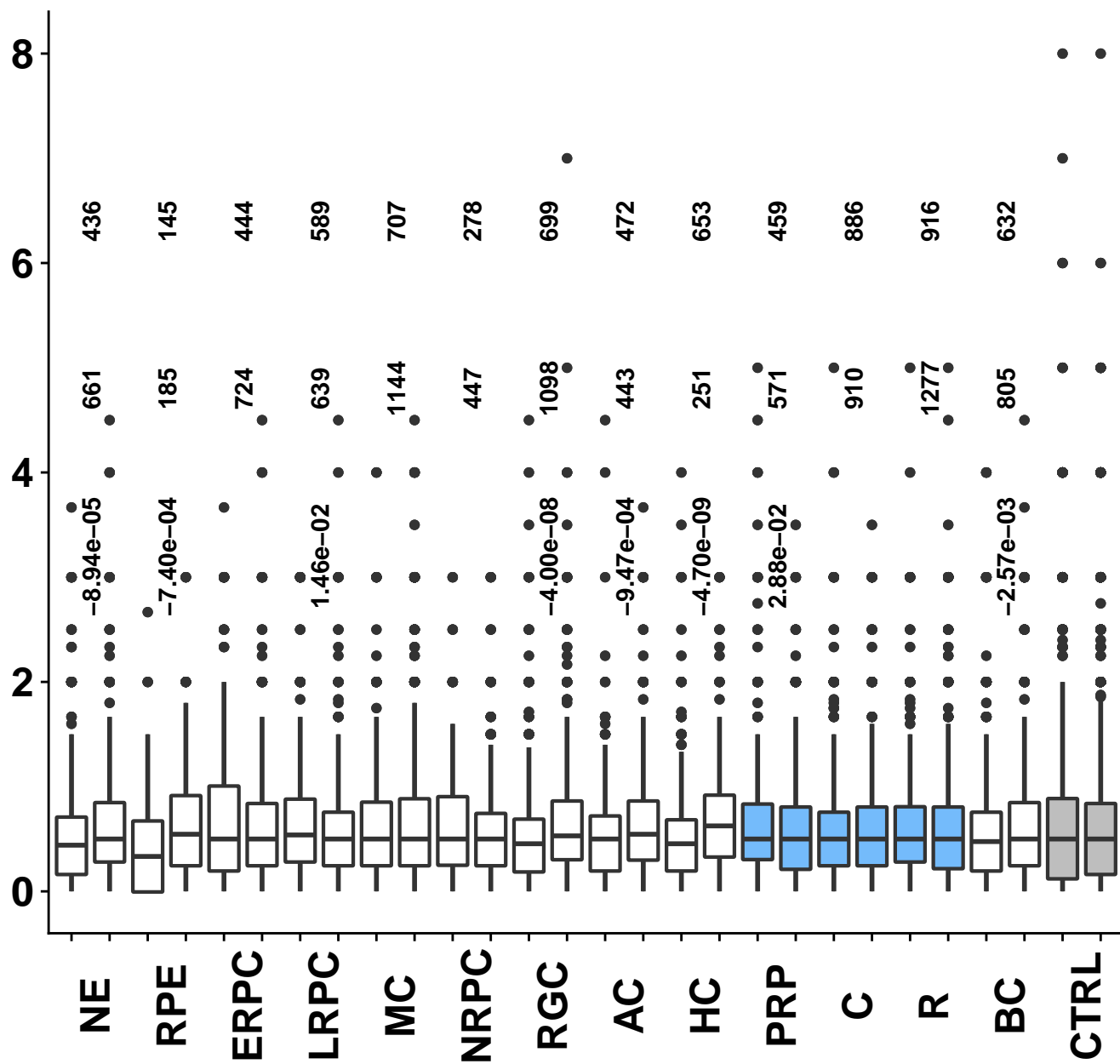
Neurod1_1_mean



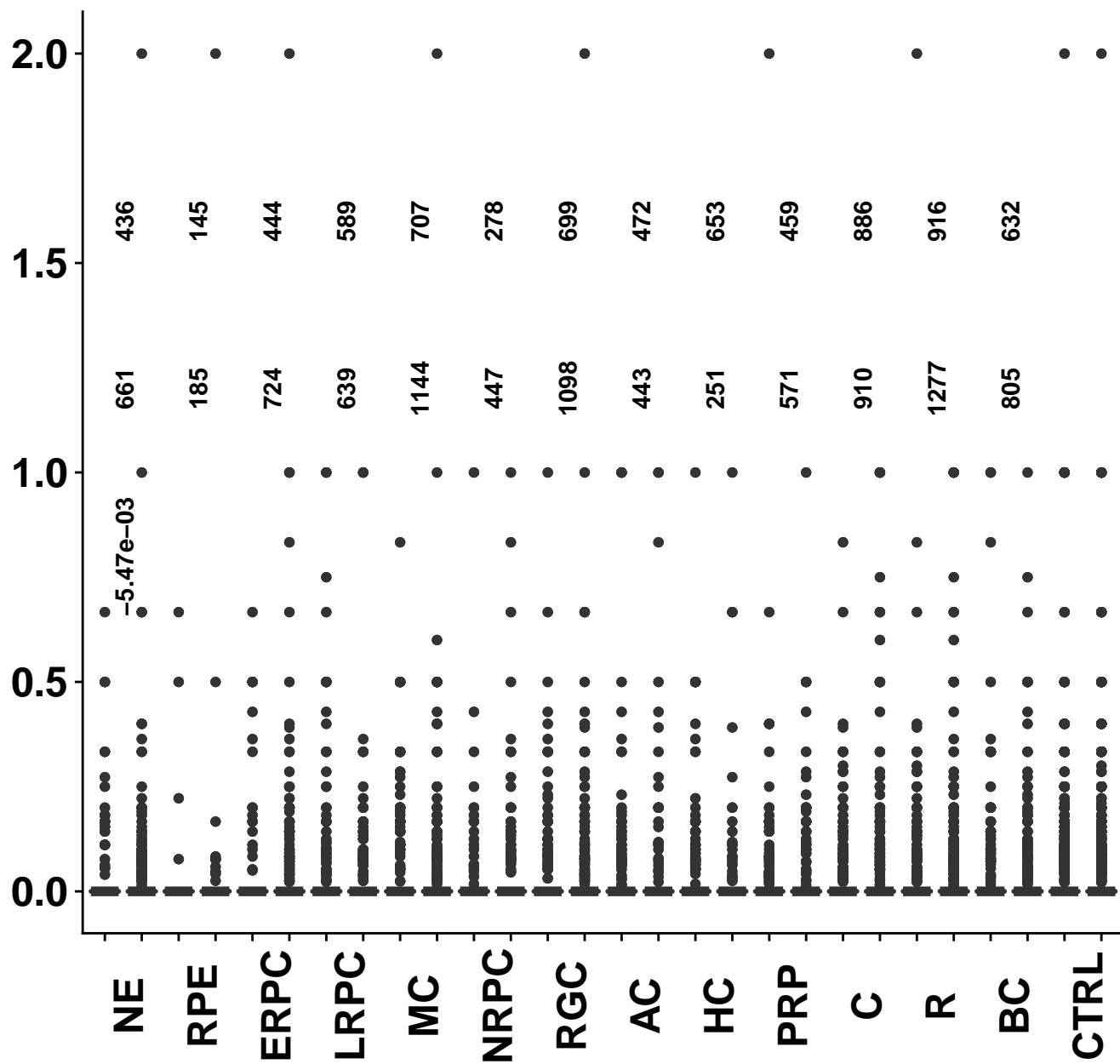
Neurod1_2_mean



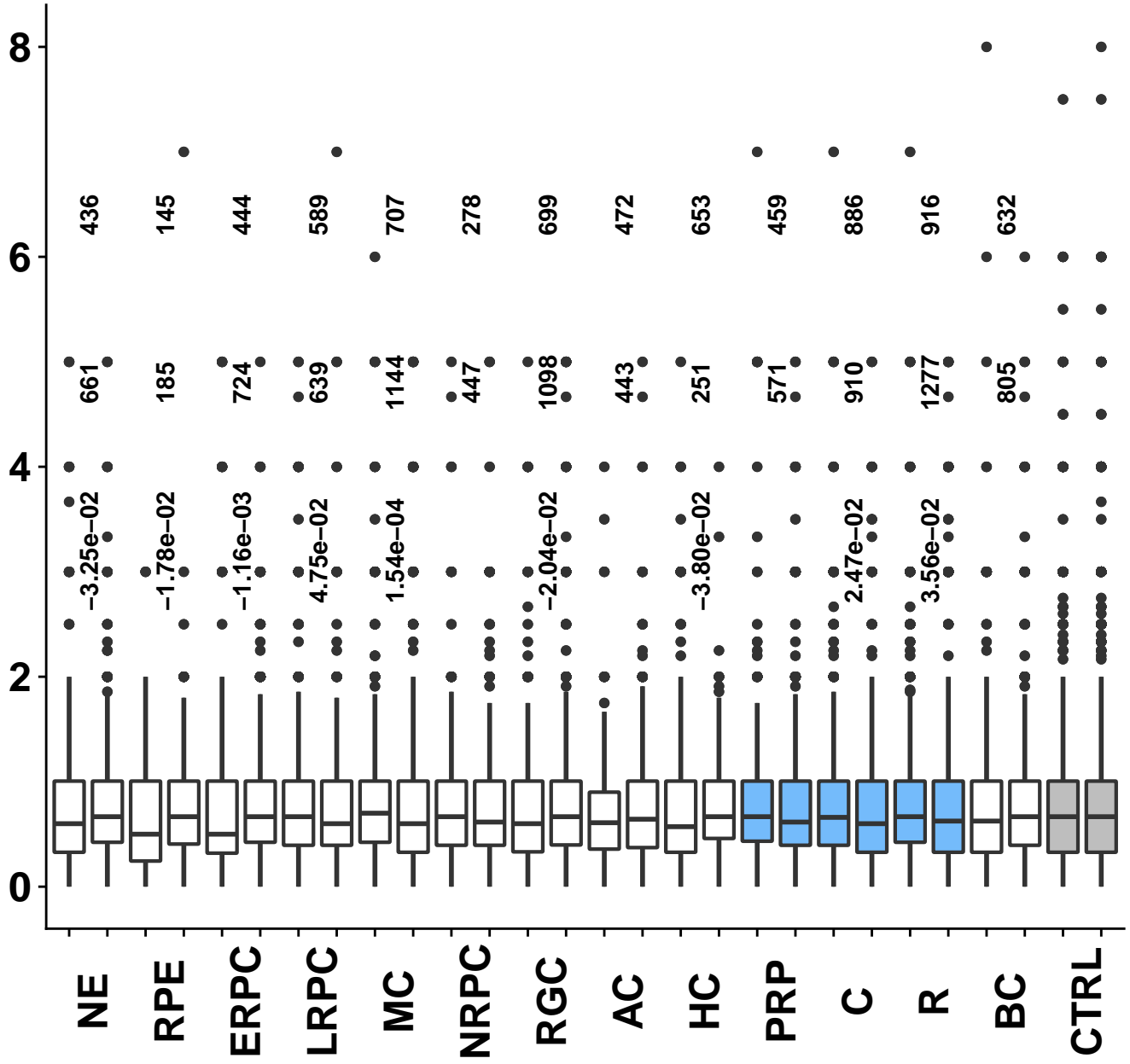
Nfat5_1_mean



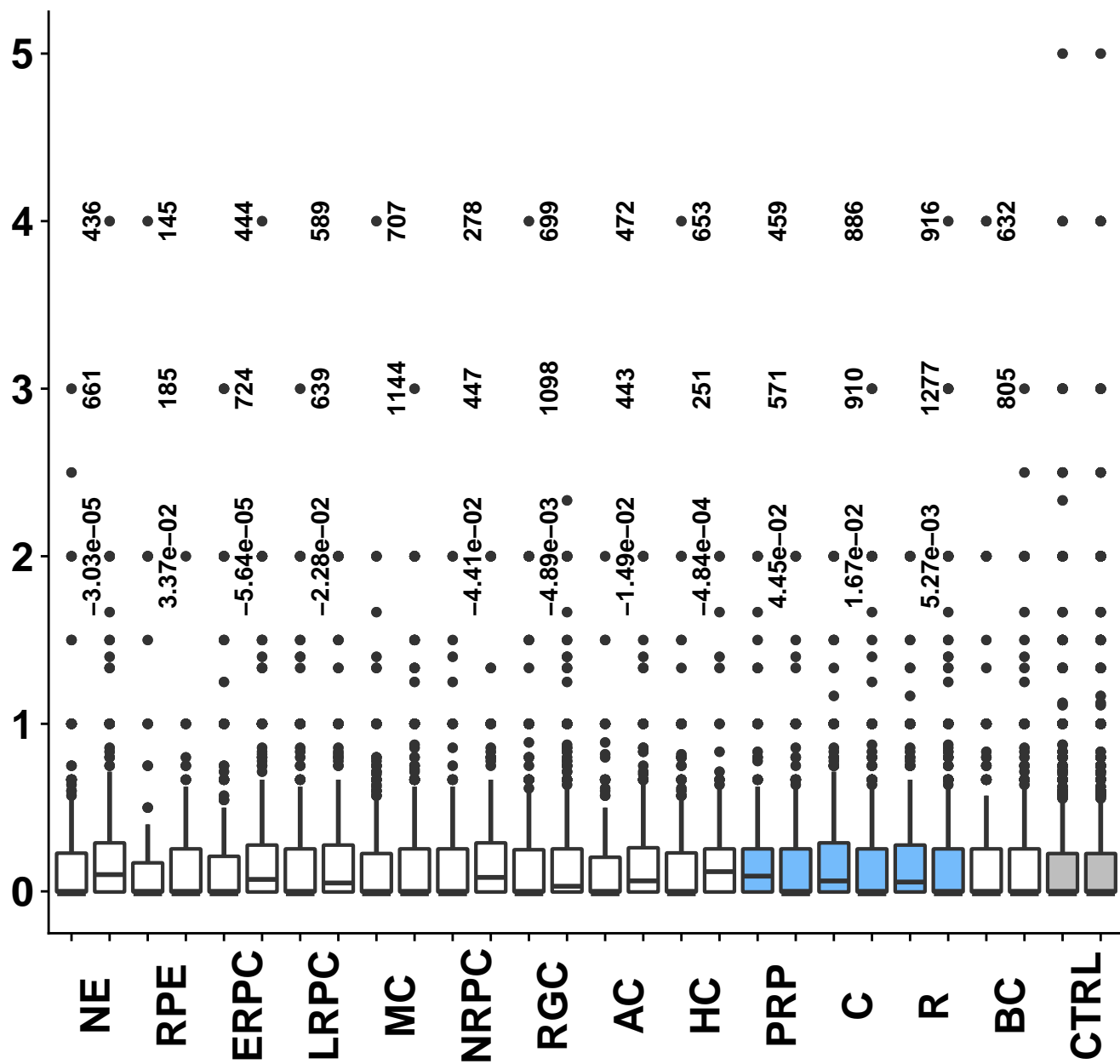
Nfic_1_mean



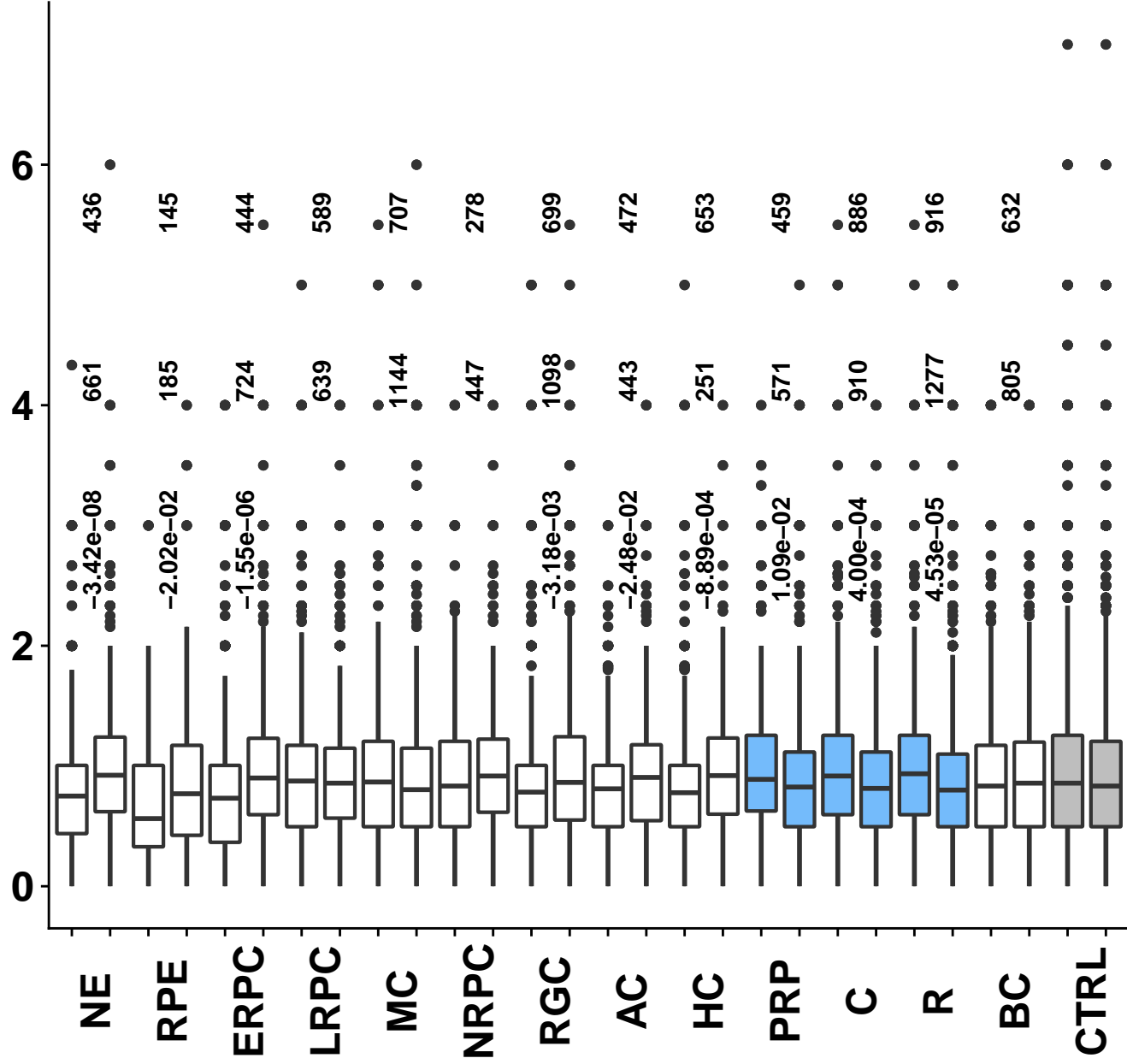
Nfic_2_mean



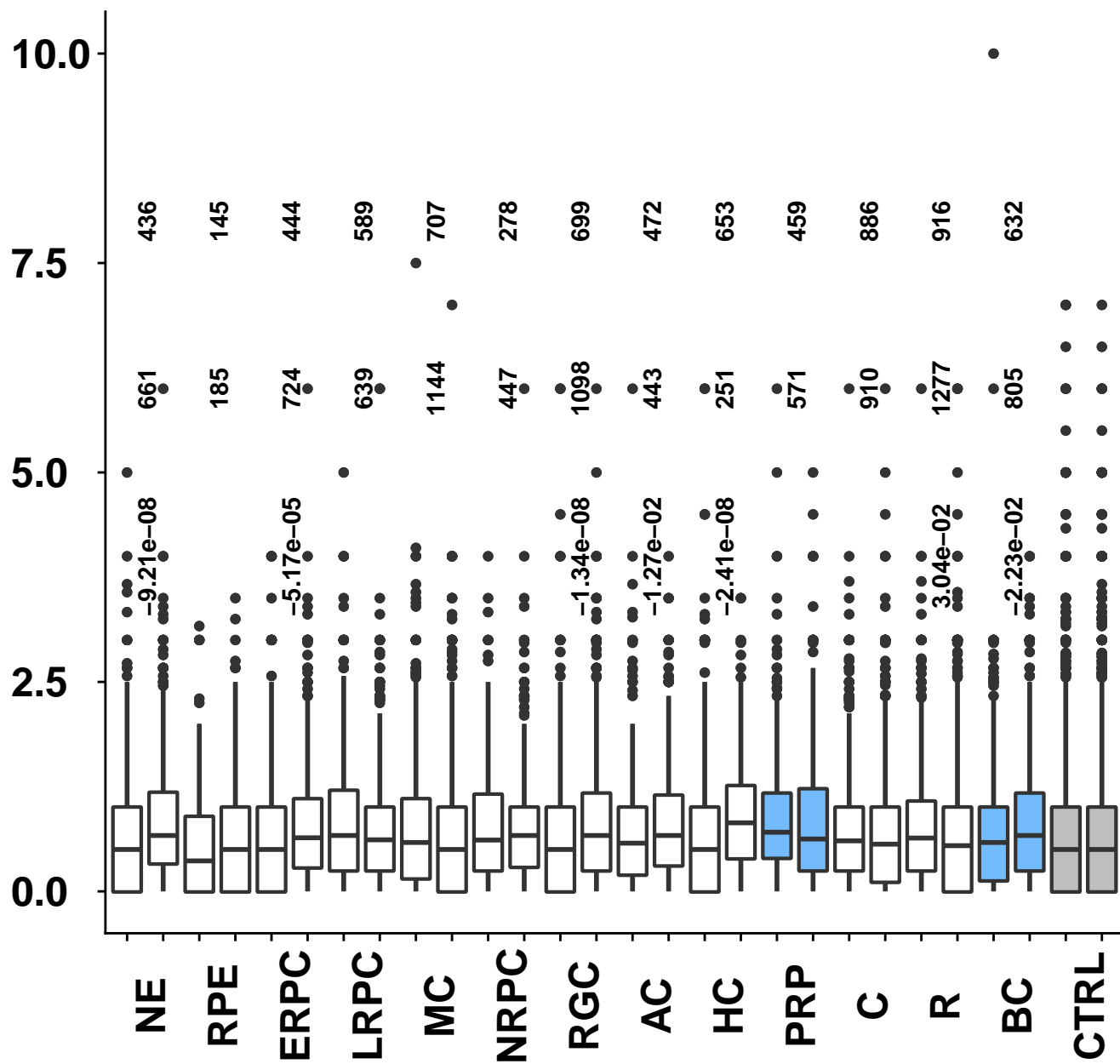
Nr2e3_1_mean



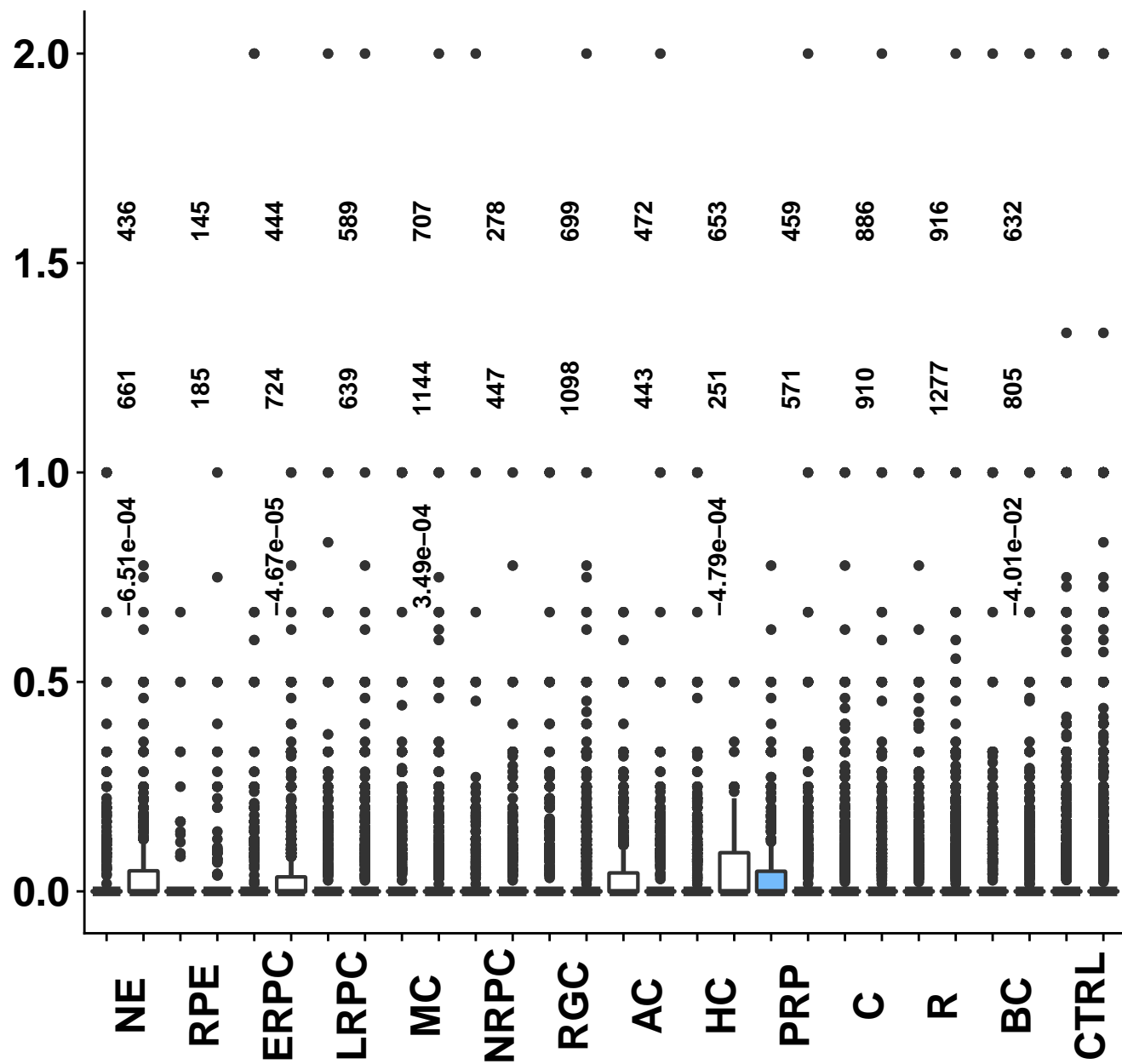
Nrl_1_mean



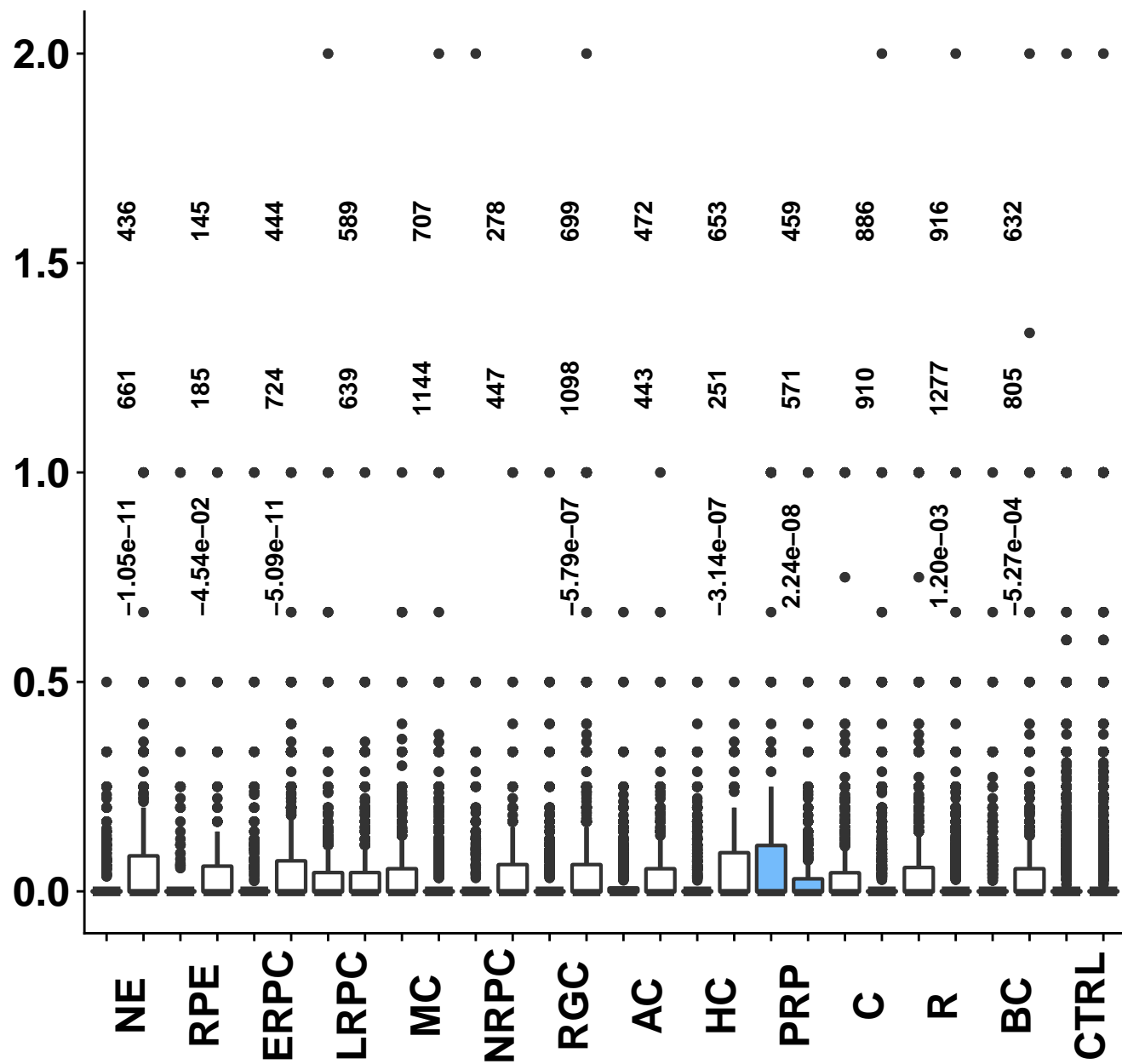
Lhx4_1_mean



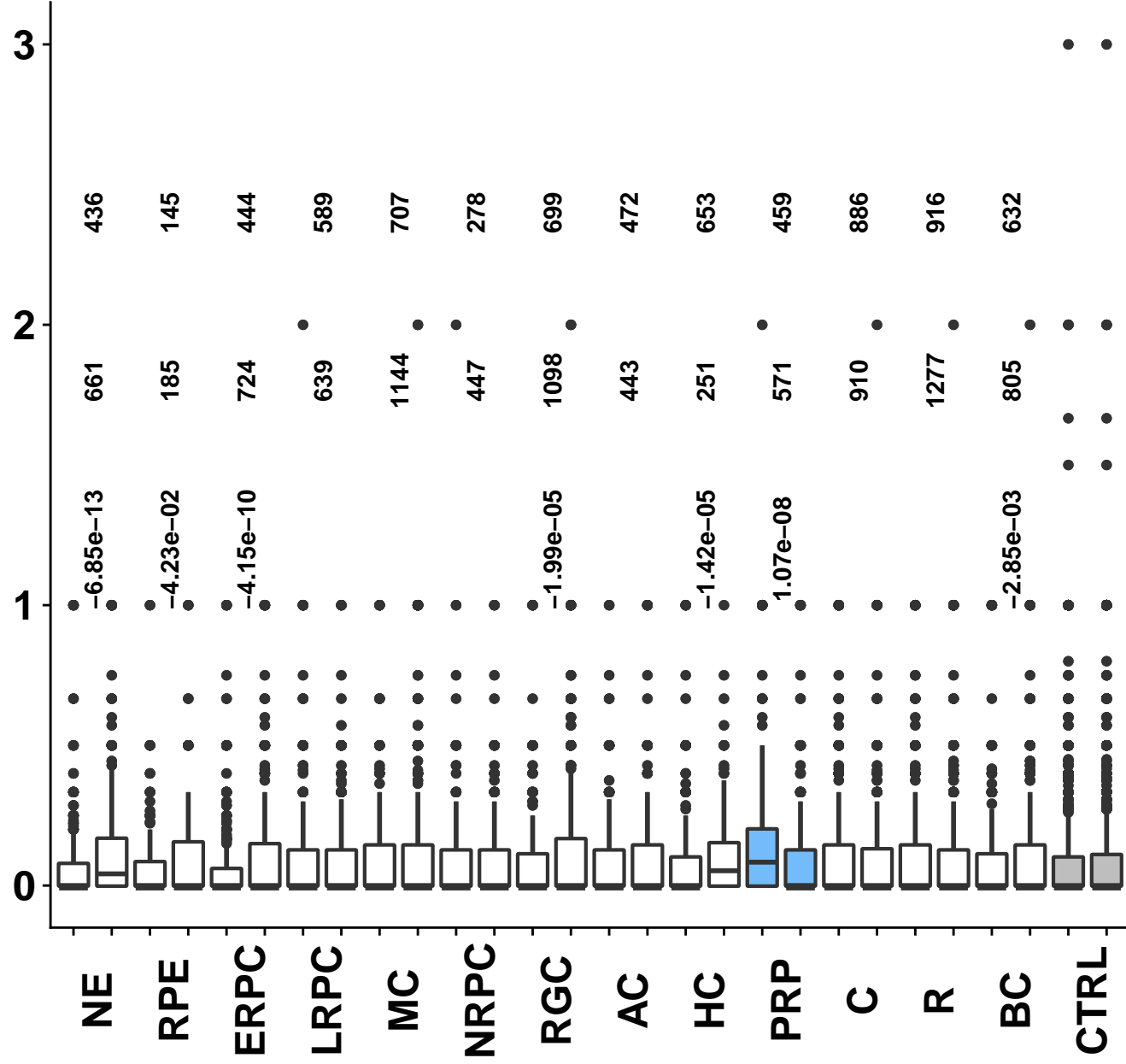
Lhx4_2_mean



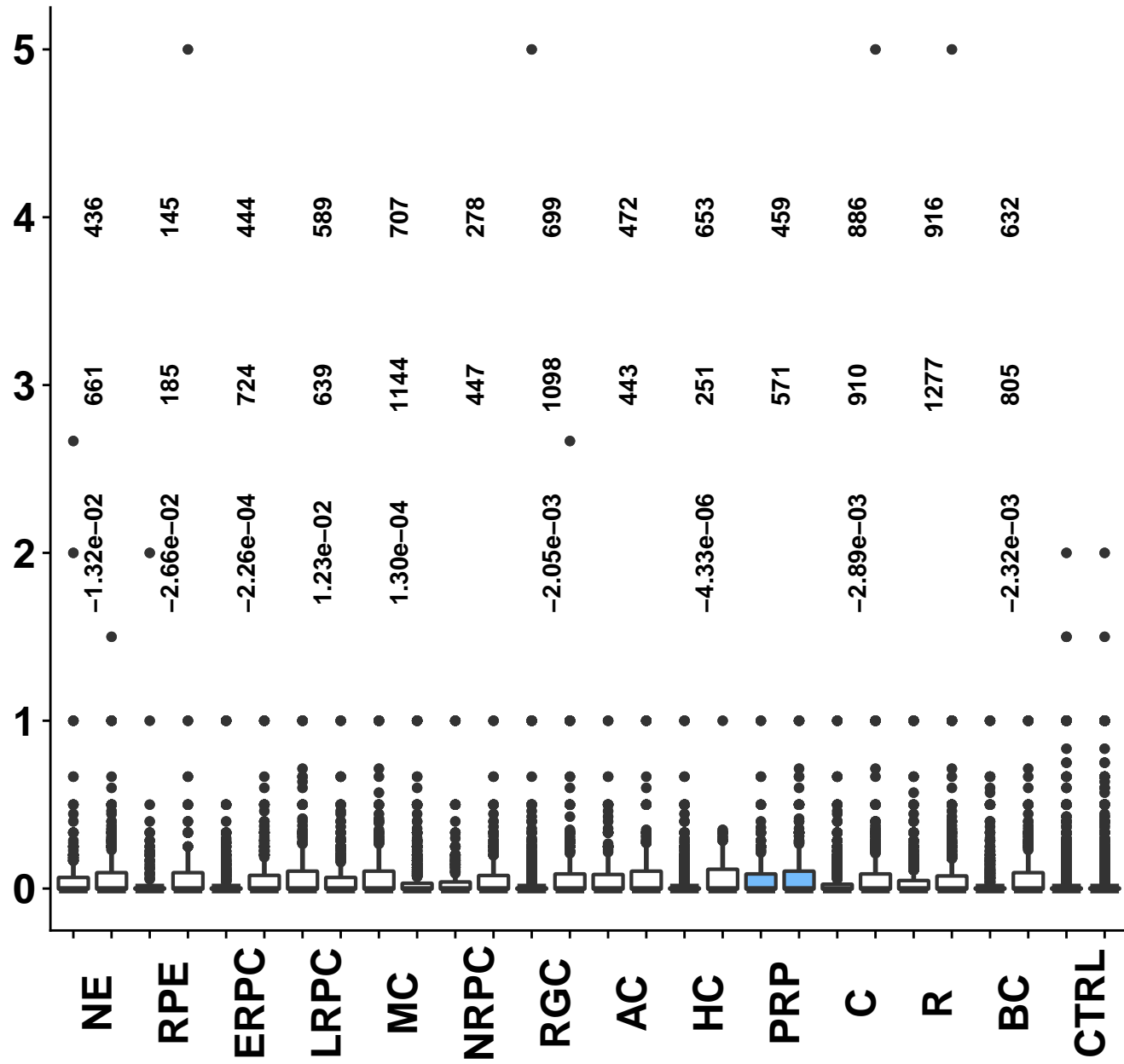
Foxo3_1_mean



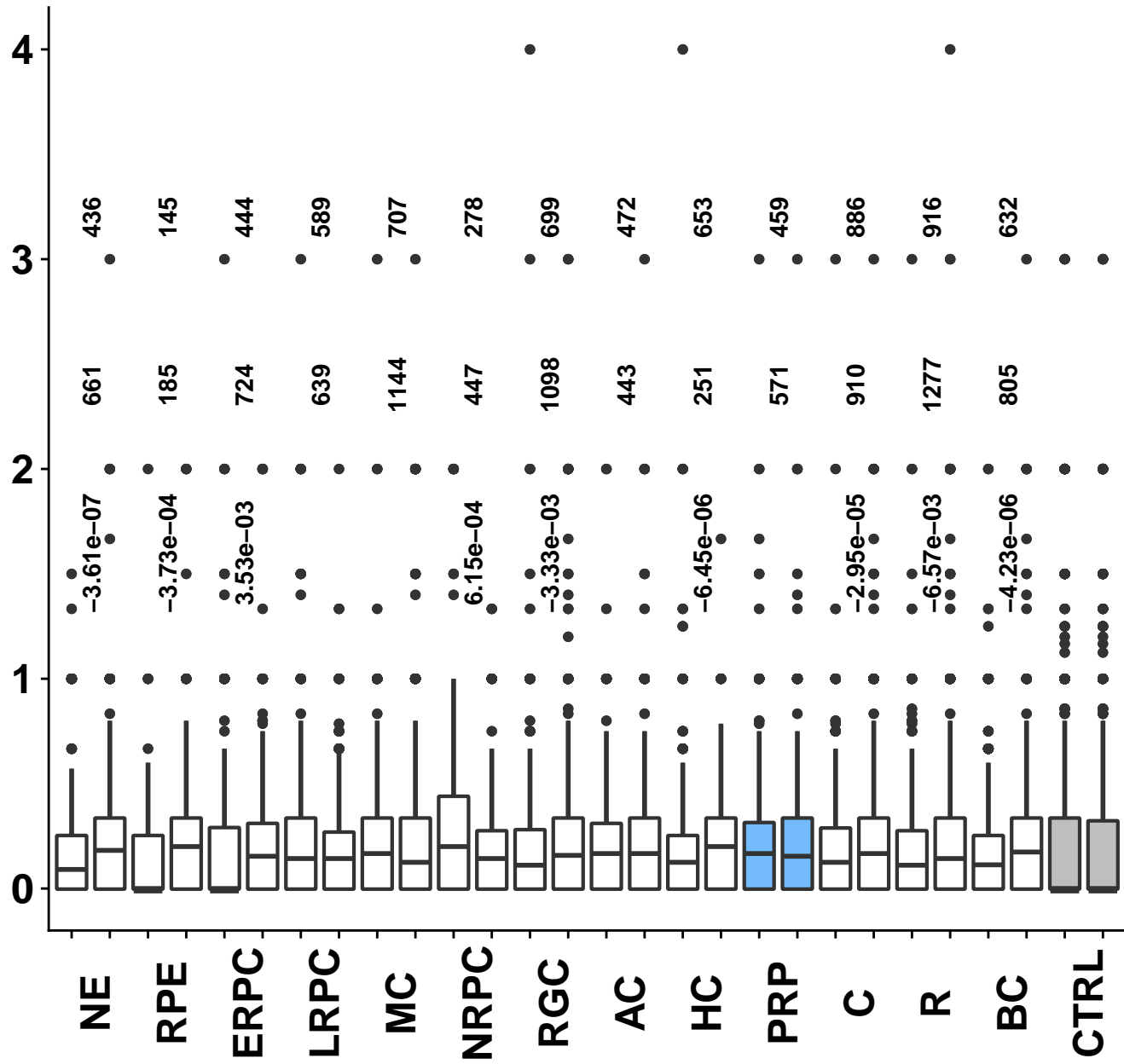
Foxo3_2_mean



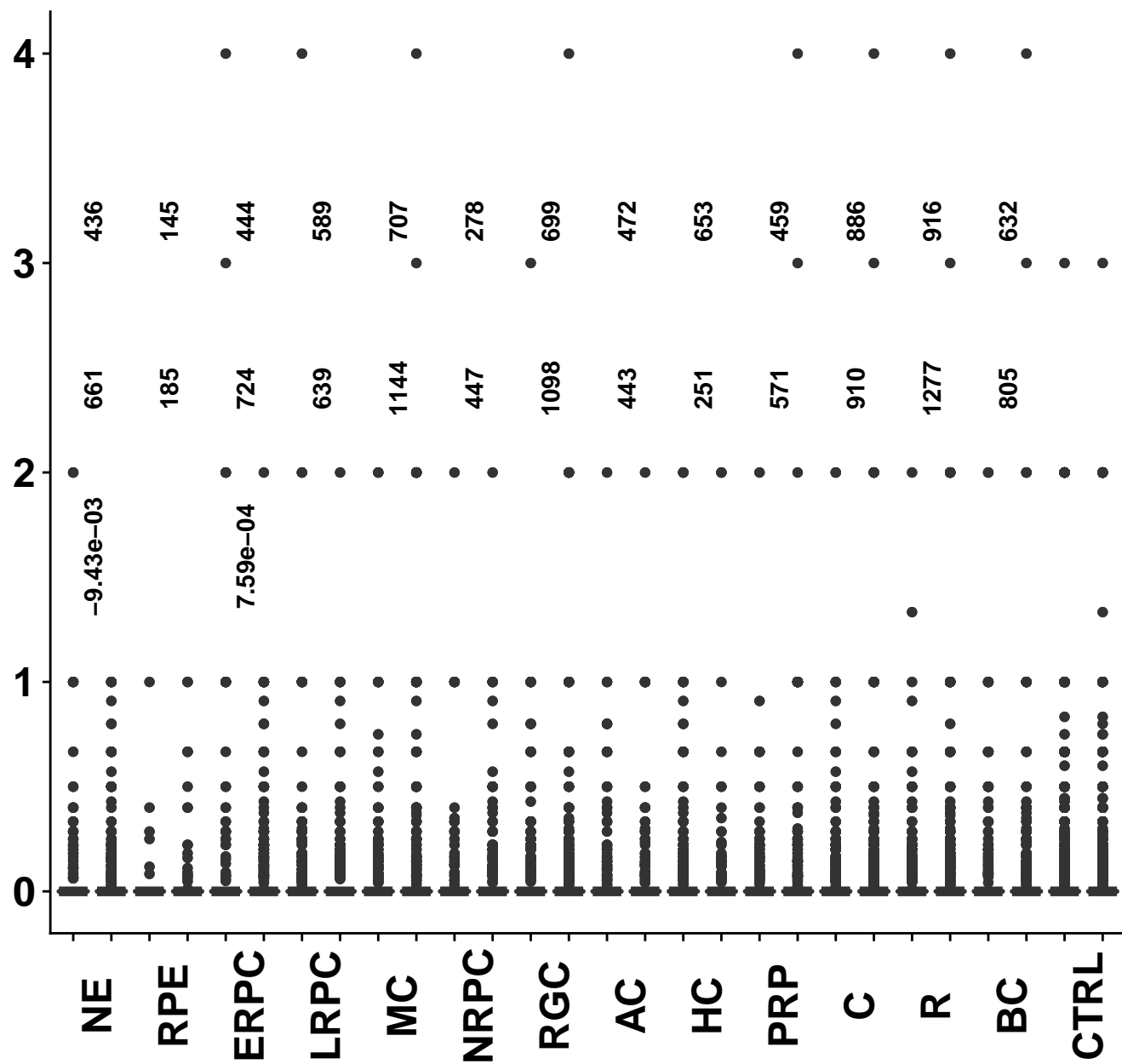
Hbp1_1_mean



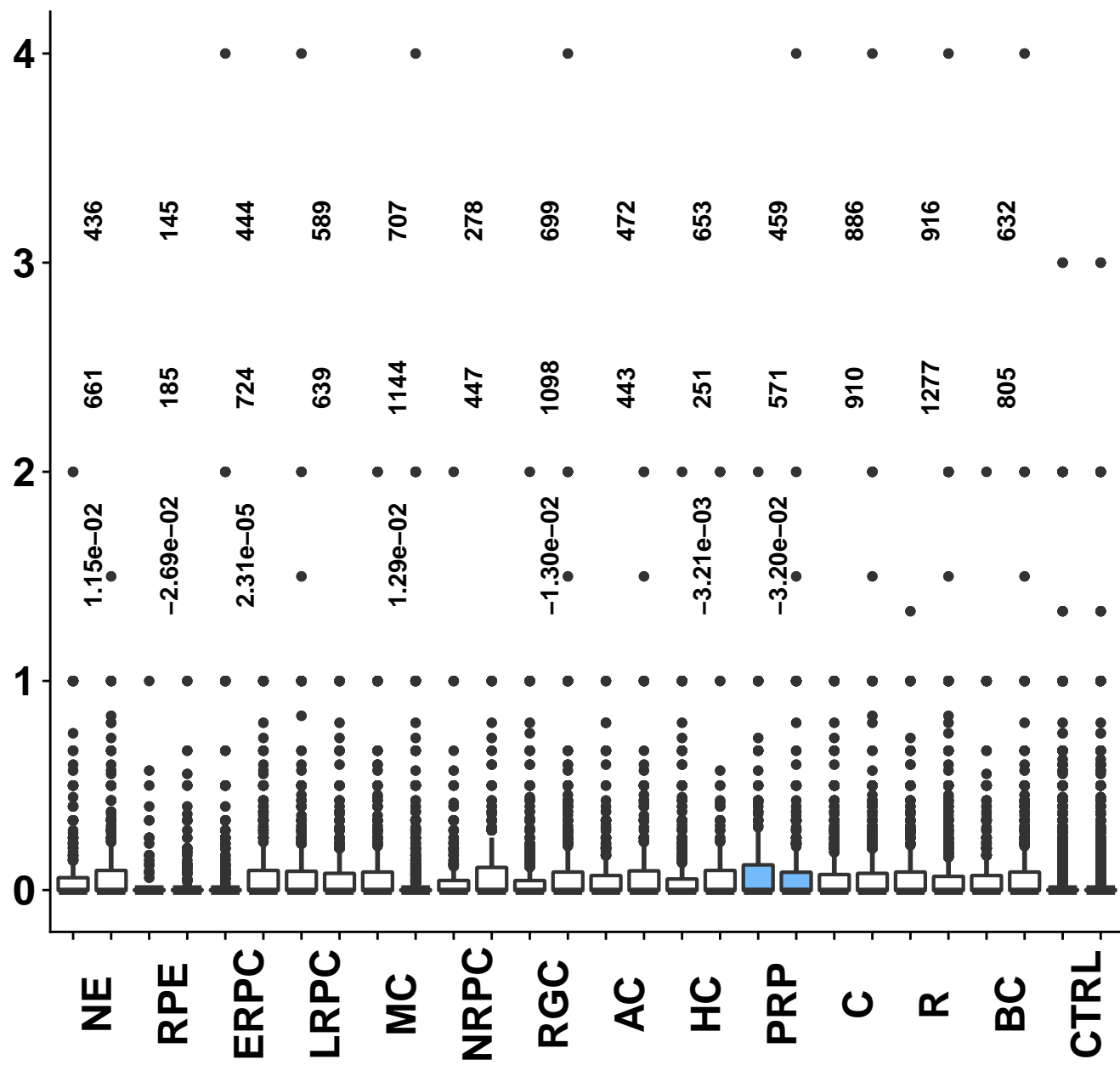
Hbp1_2_mean



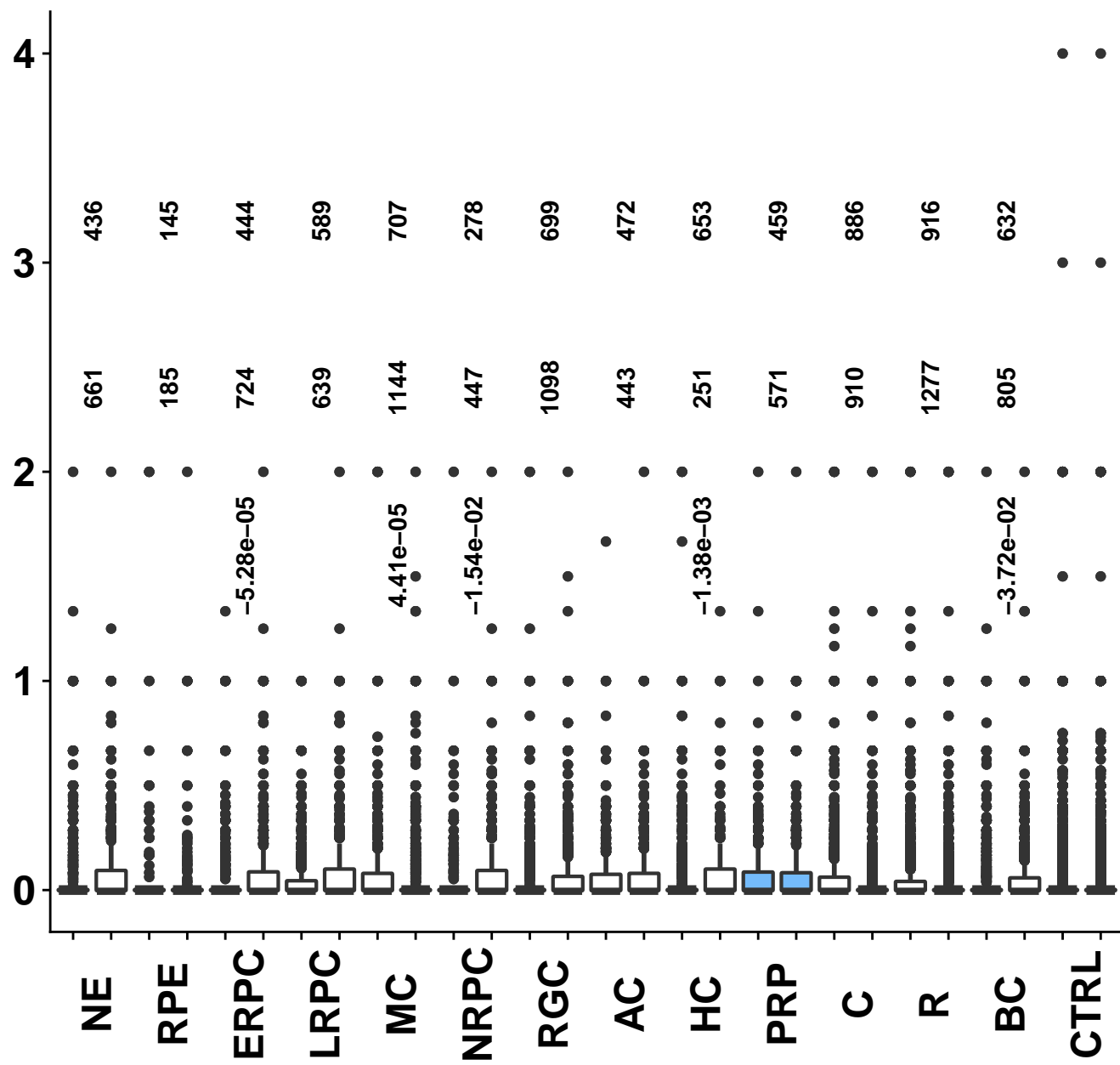
Jun_d_1_mean



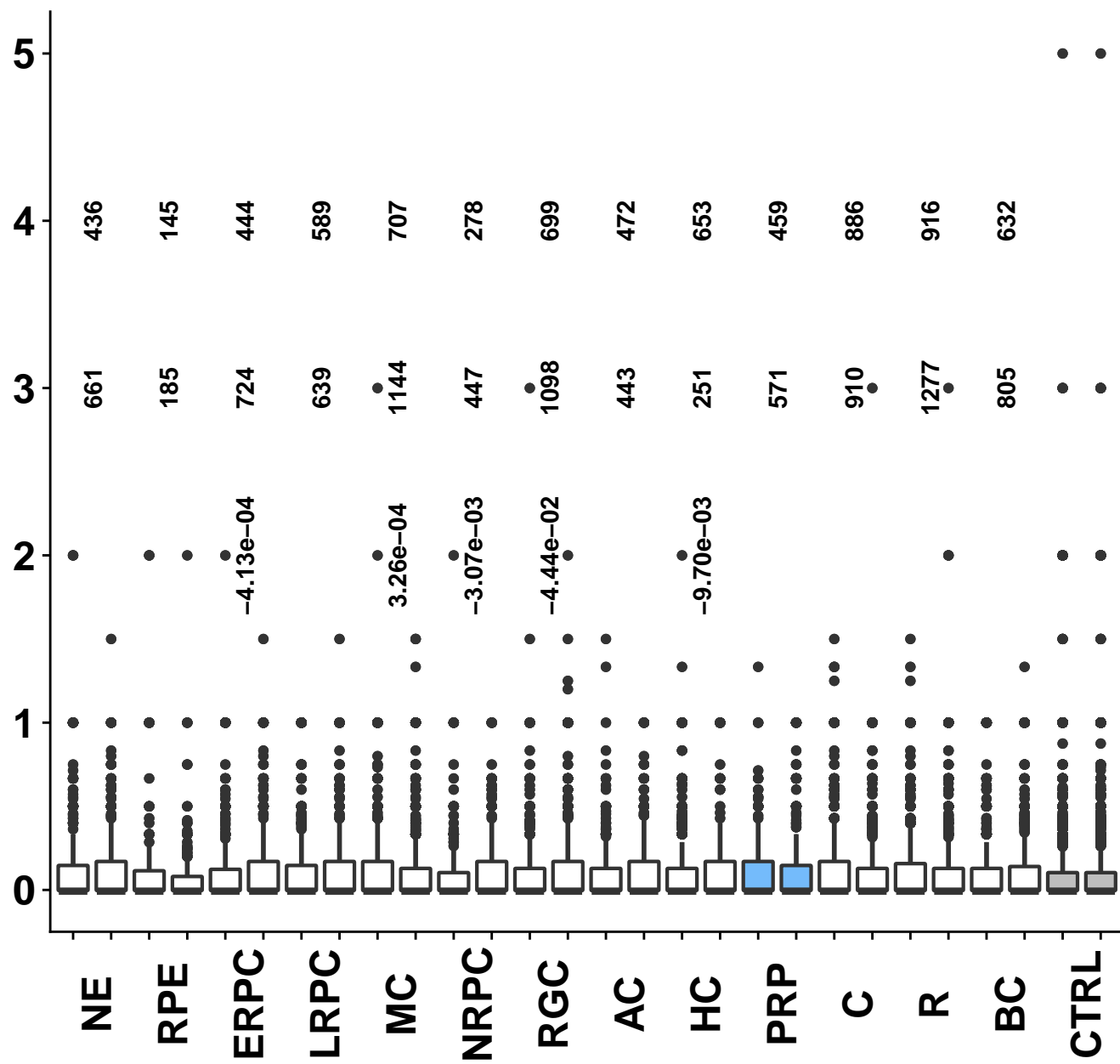
Jun2_2_mean



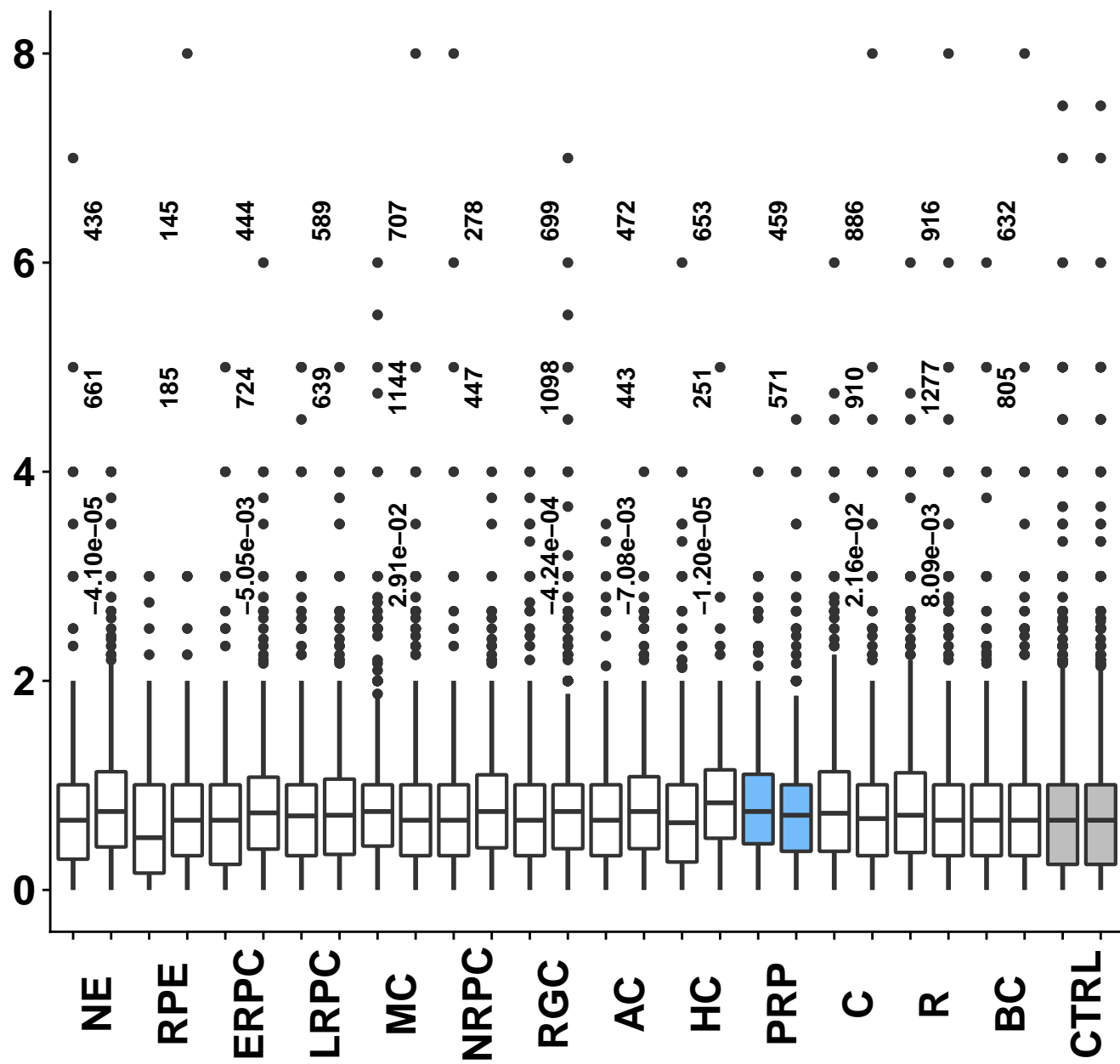
Jund_3_mean



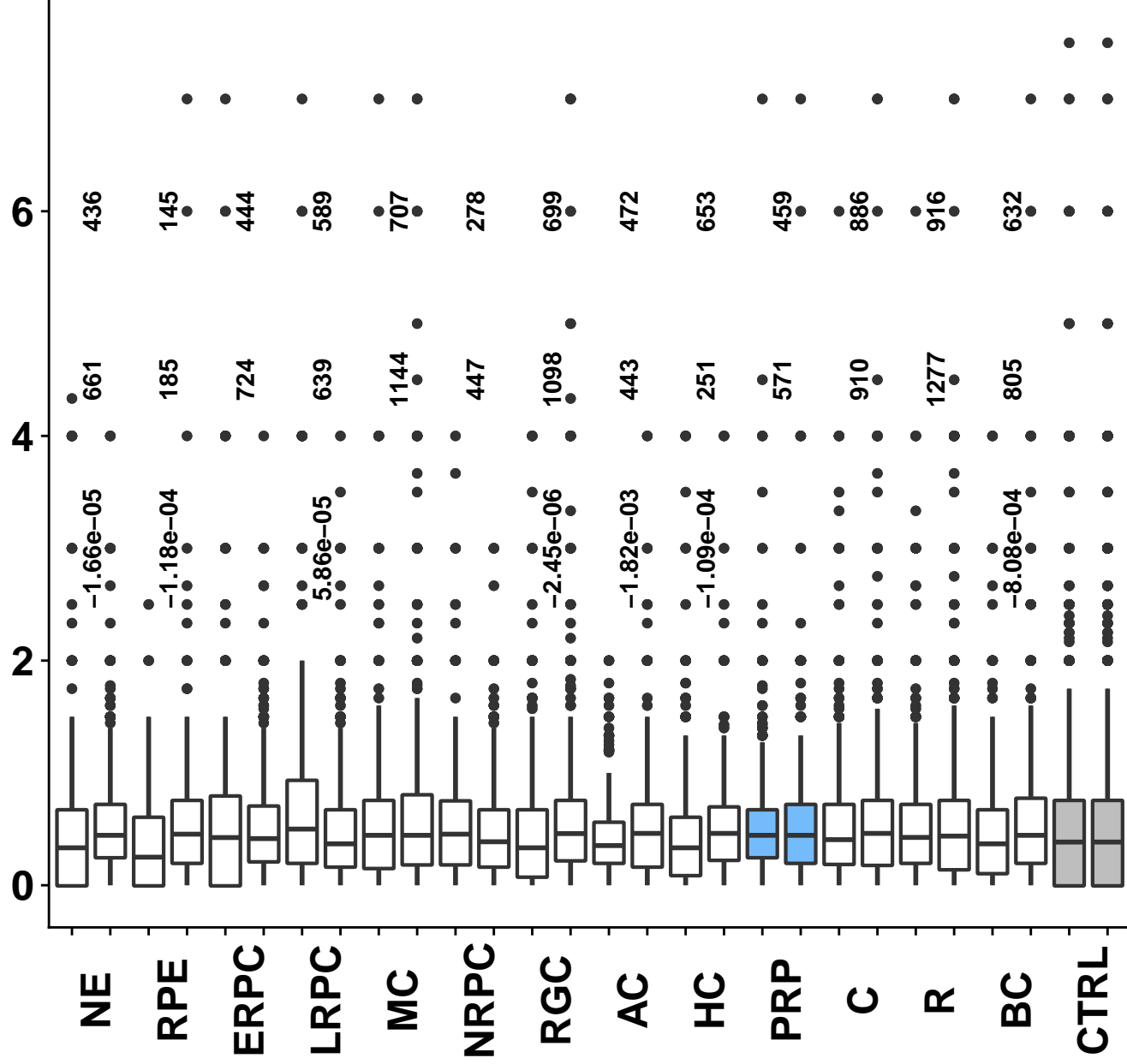
Jun4_mean



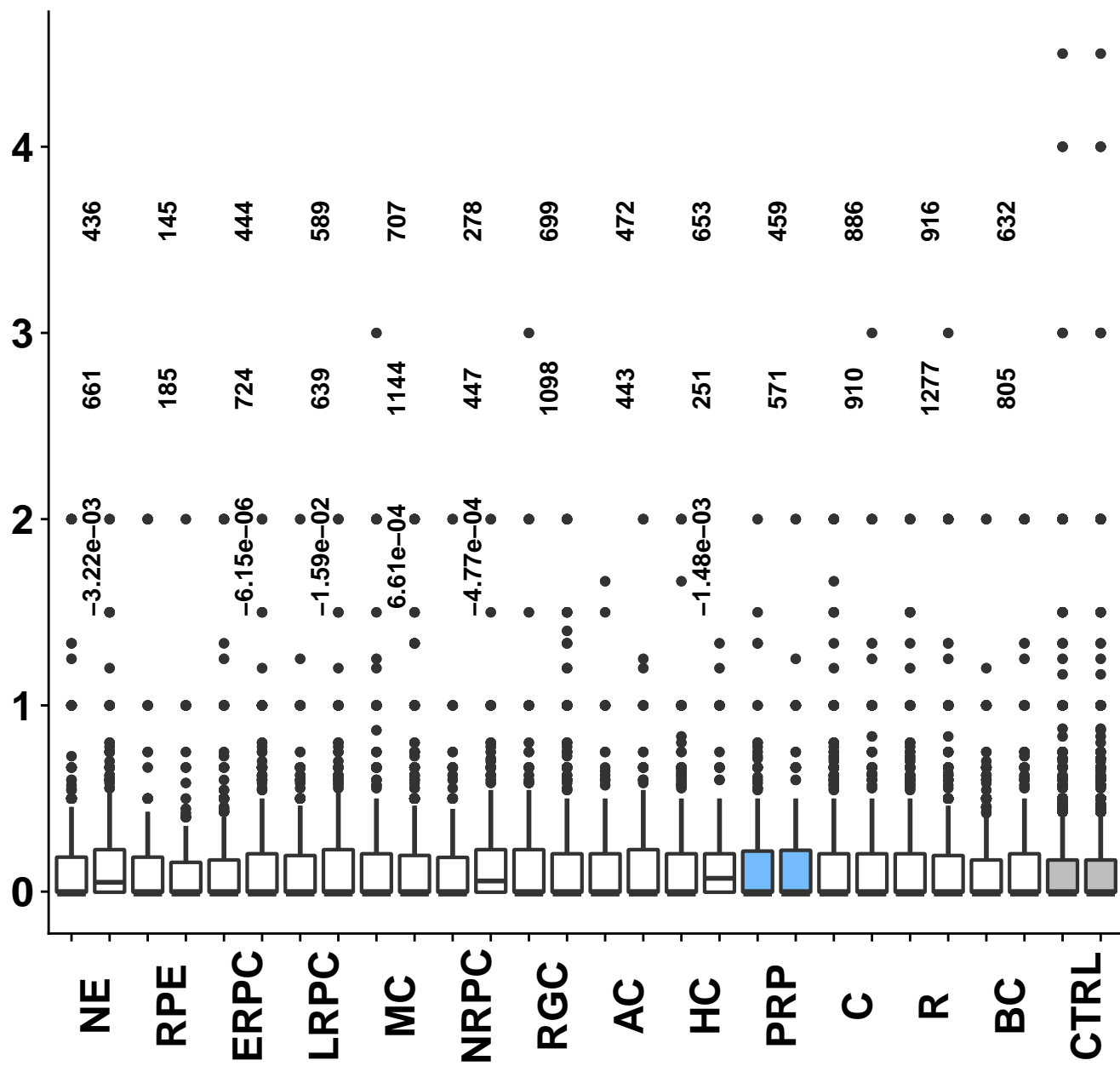
Jun_5_mean



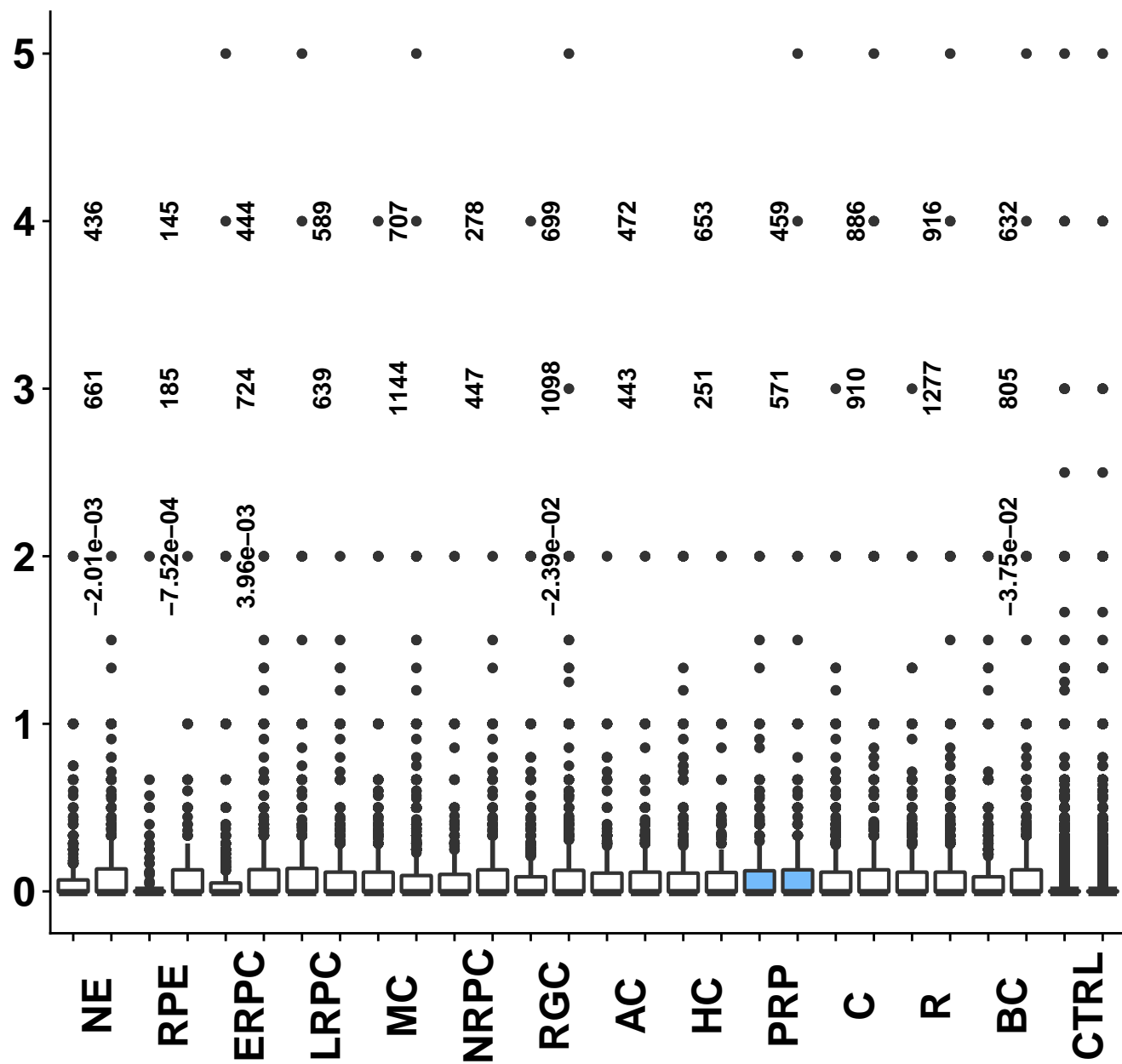
Jun_d_6_mean



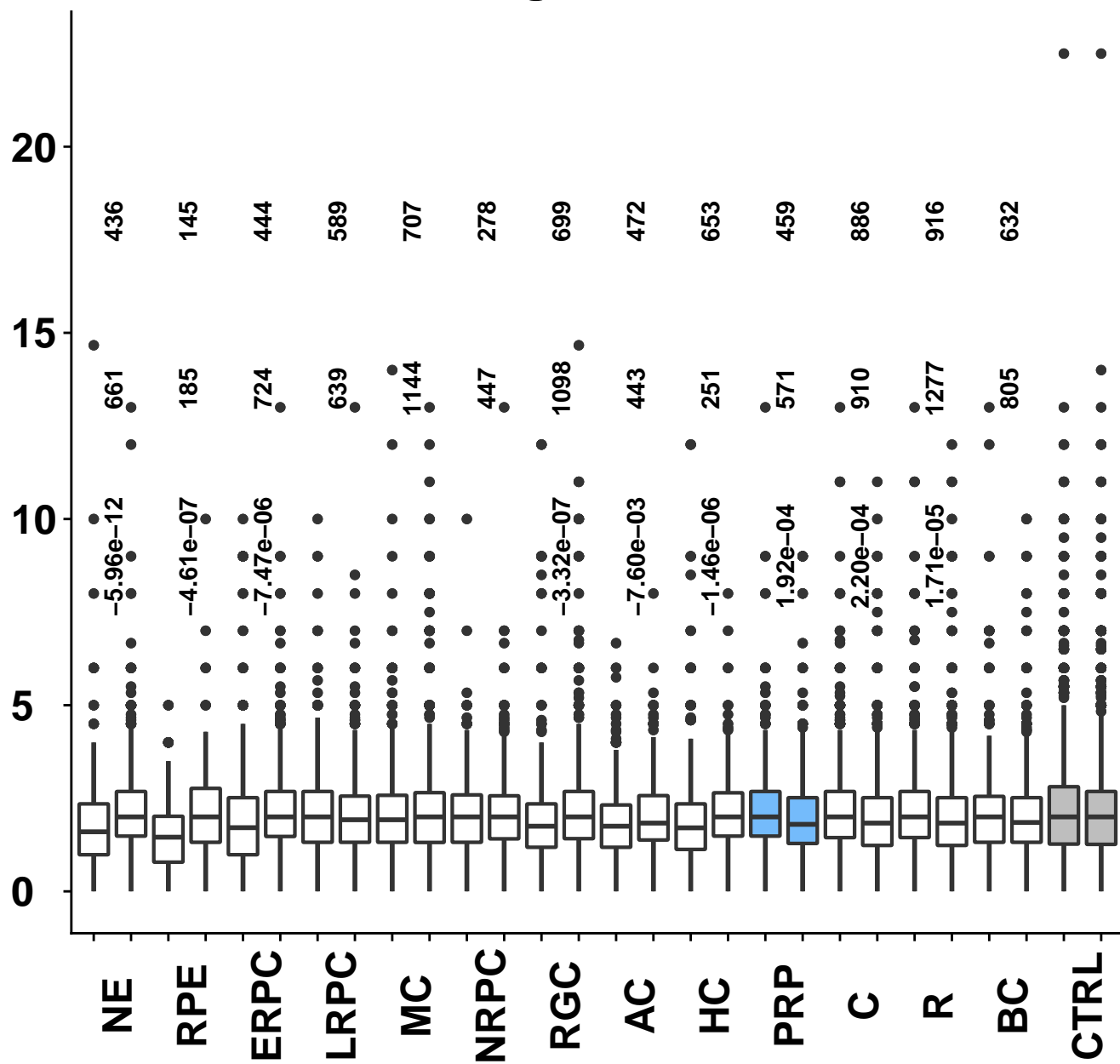
Jun_7_mean



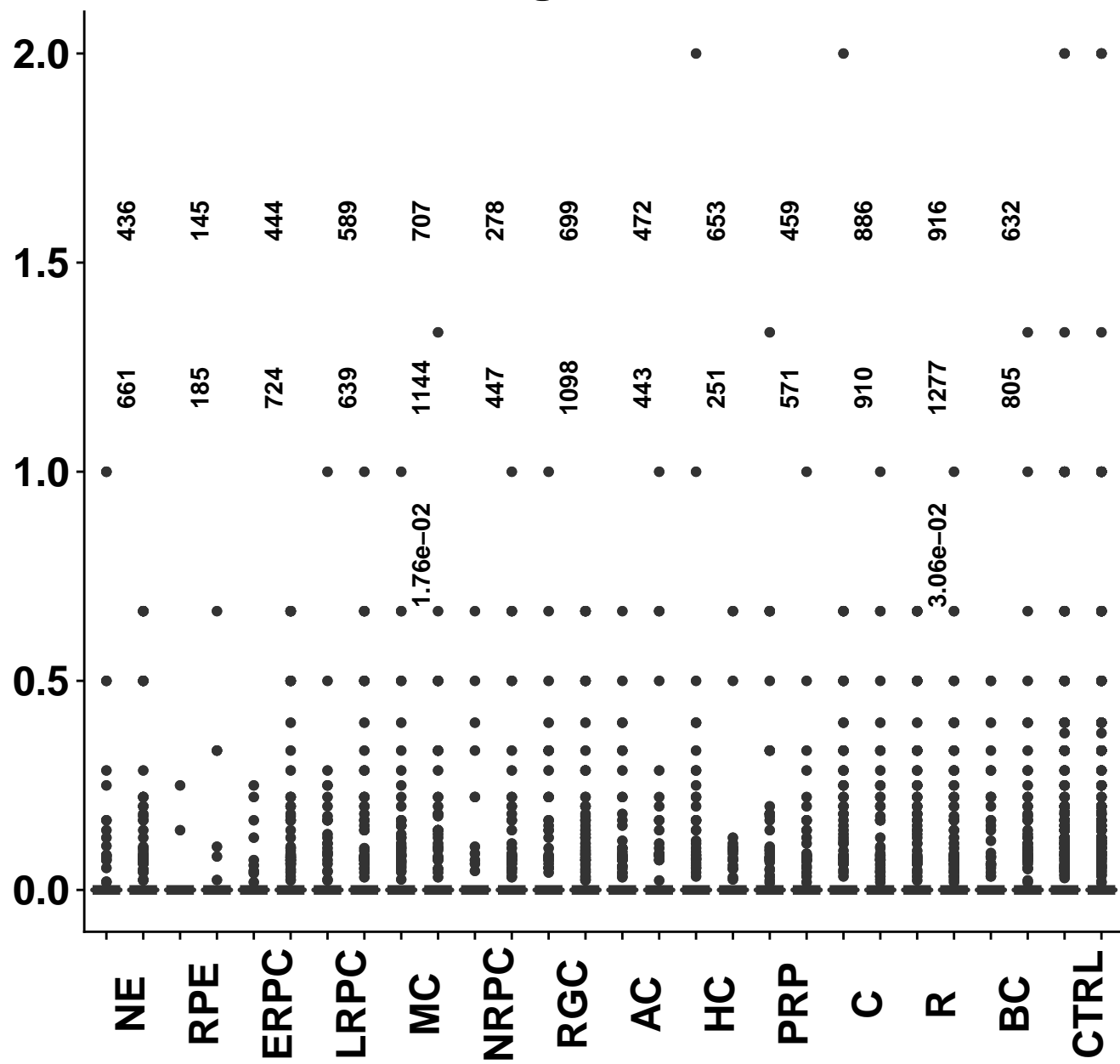
Jun_d_8_mean



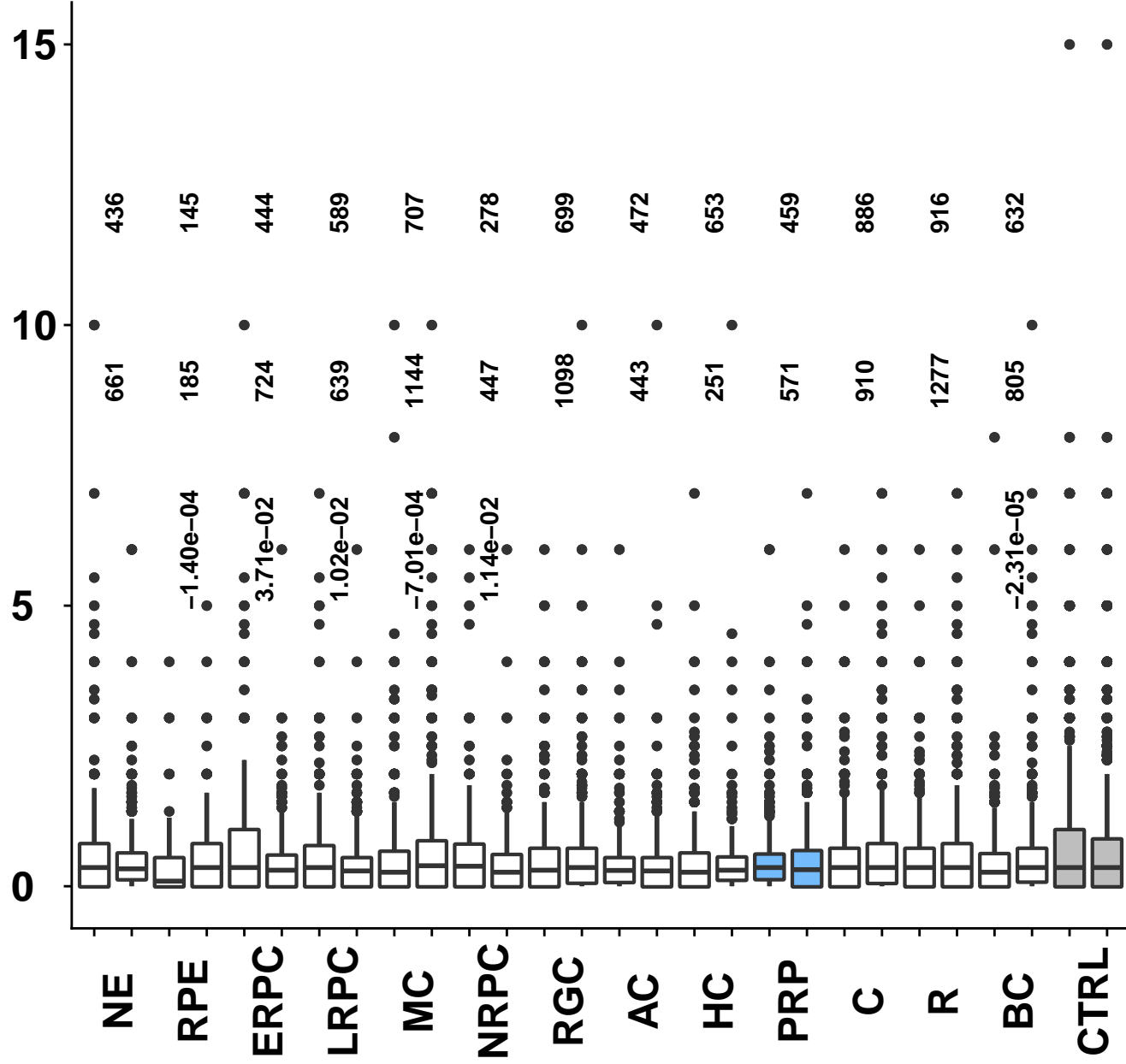
Mafg_1_mean



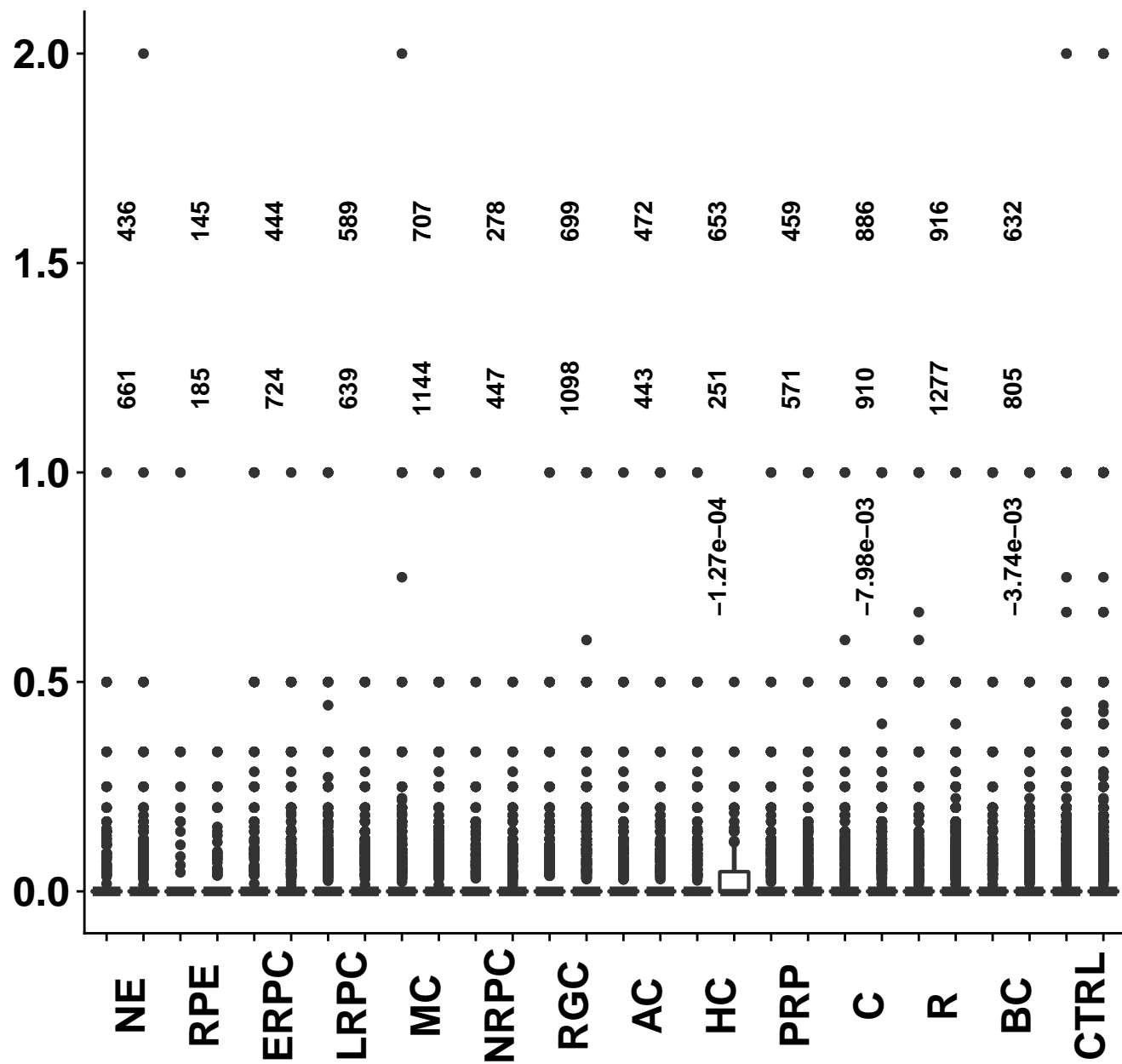
Mafg_2_mean



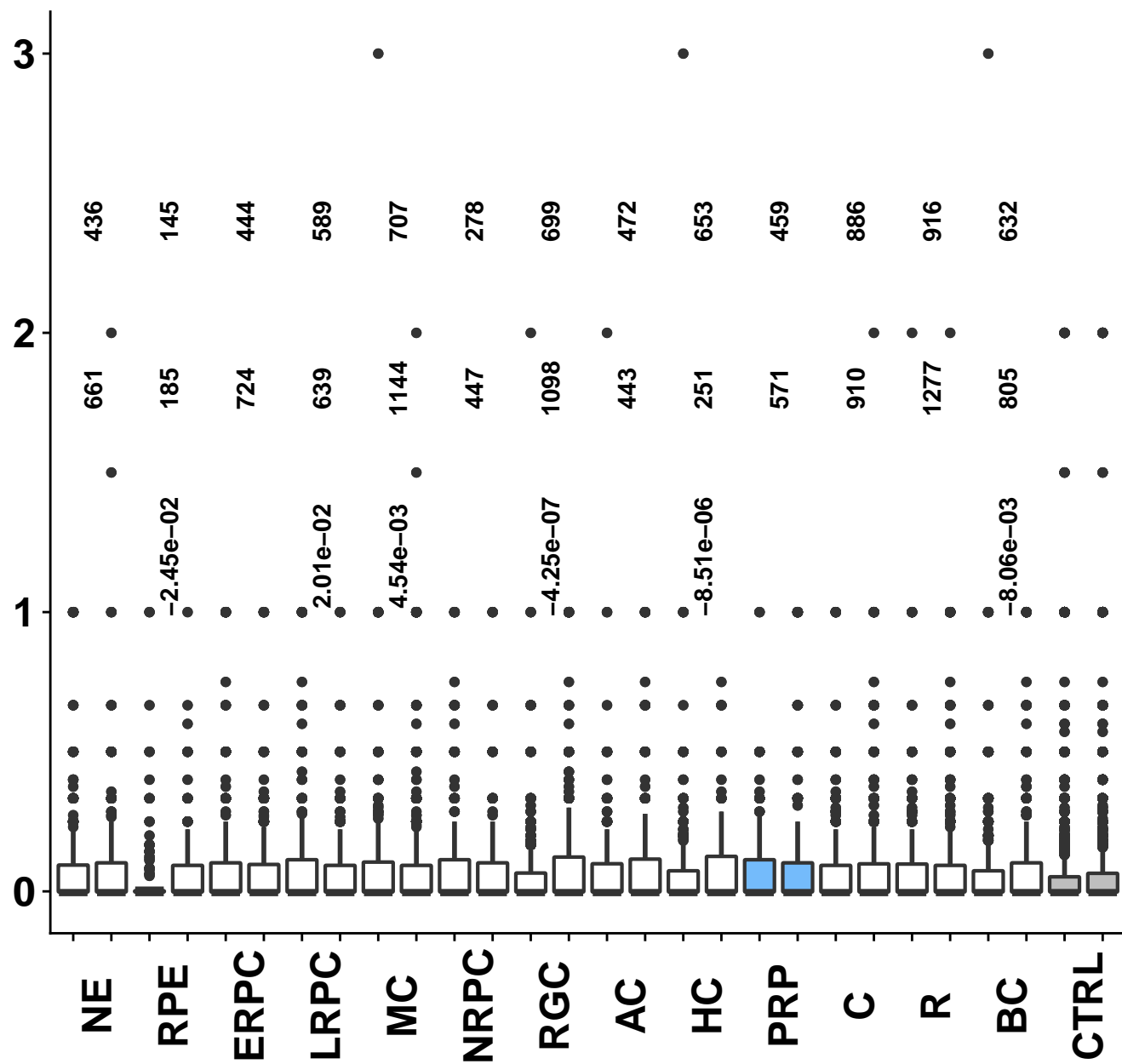
Mxi1_1_mean



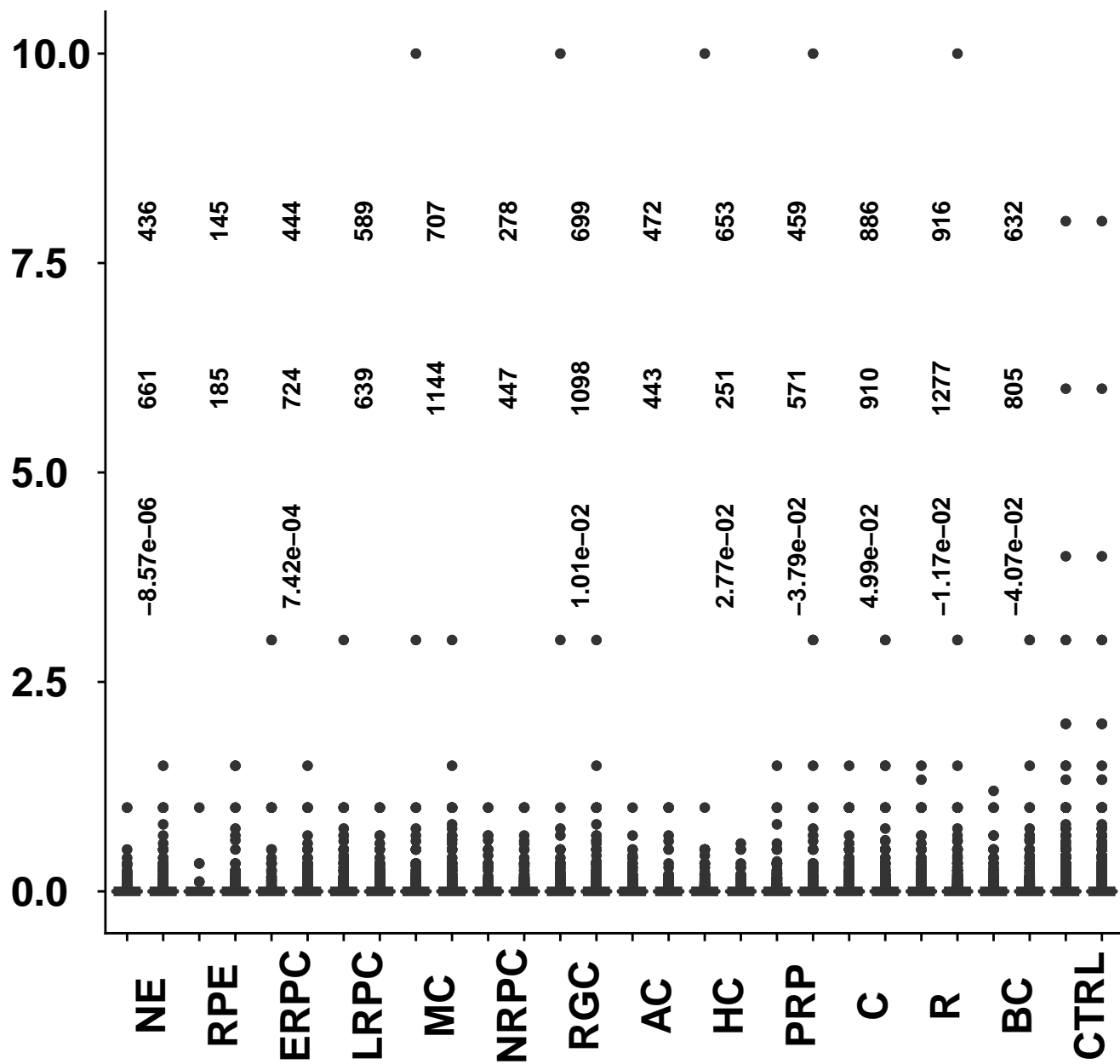
Prdm1_4_mean



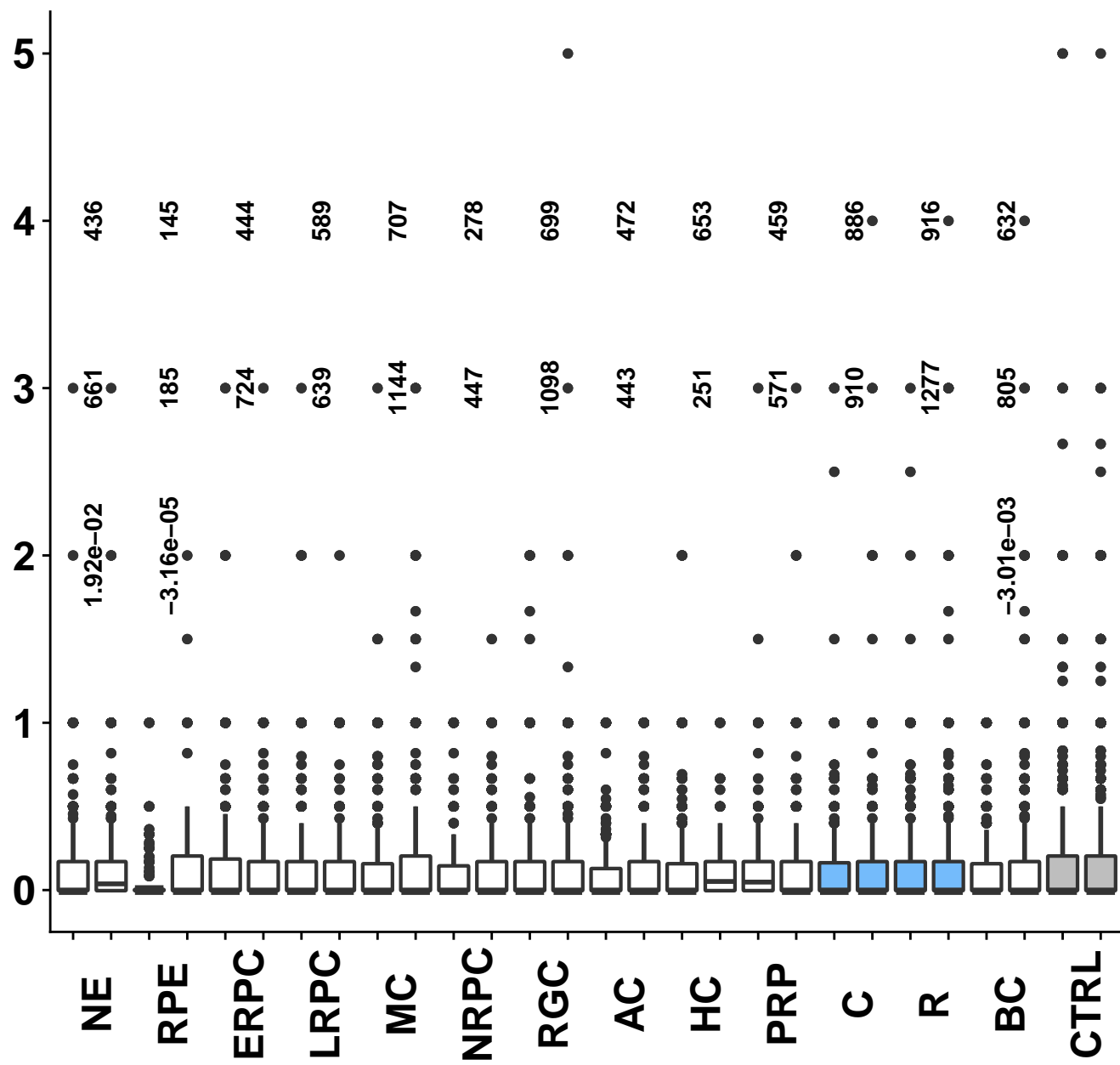
Prdm1_5_mean



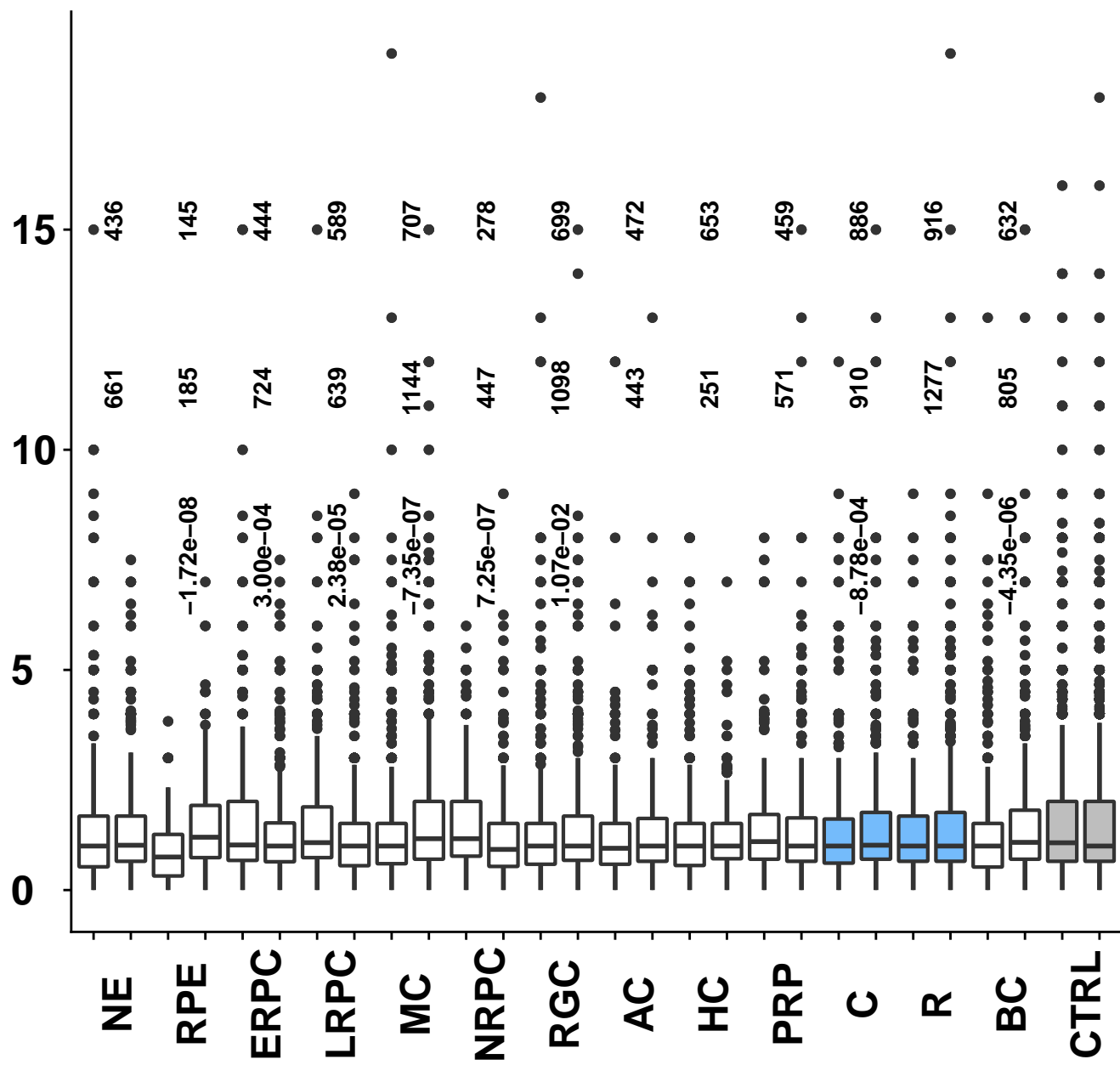
Rreb1_1_mean



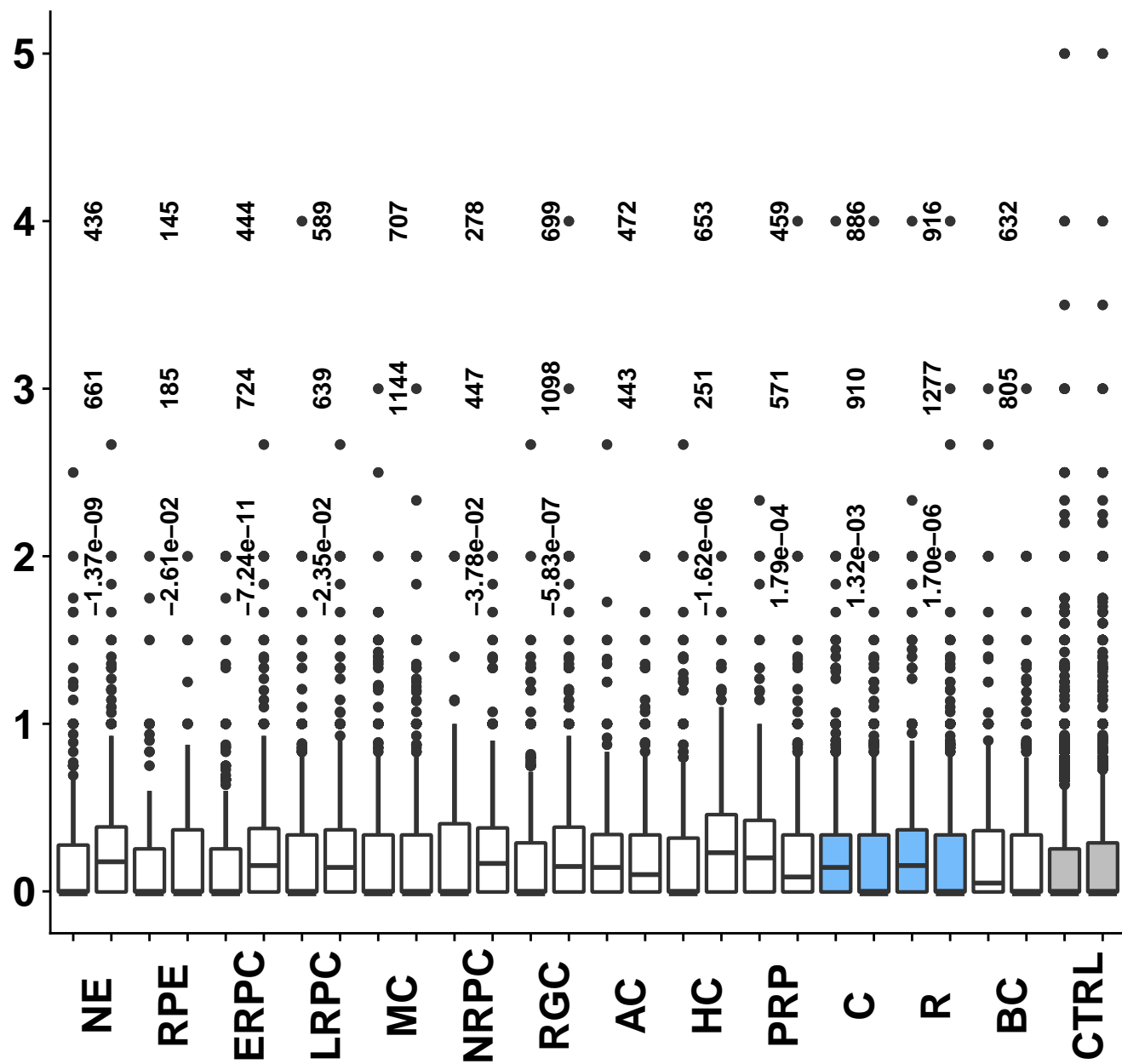
Ahr_1_mean



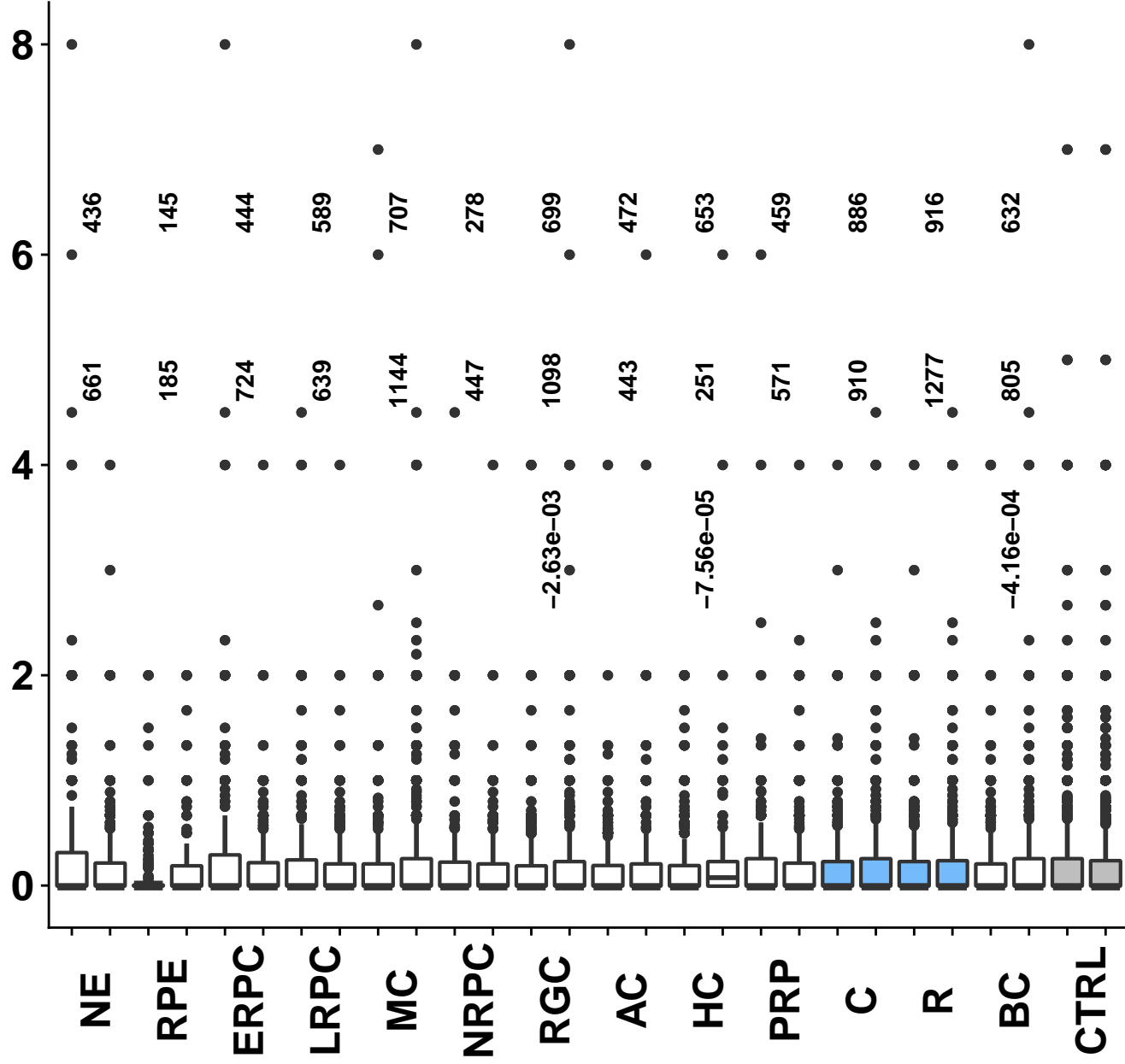
Ahr_2_mean



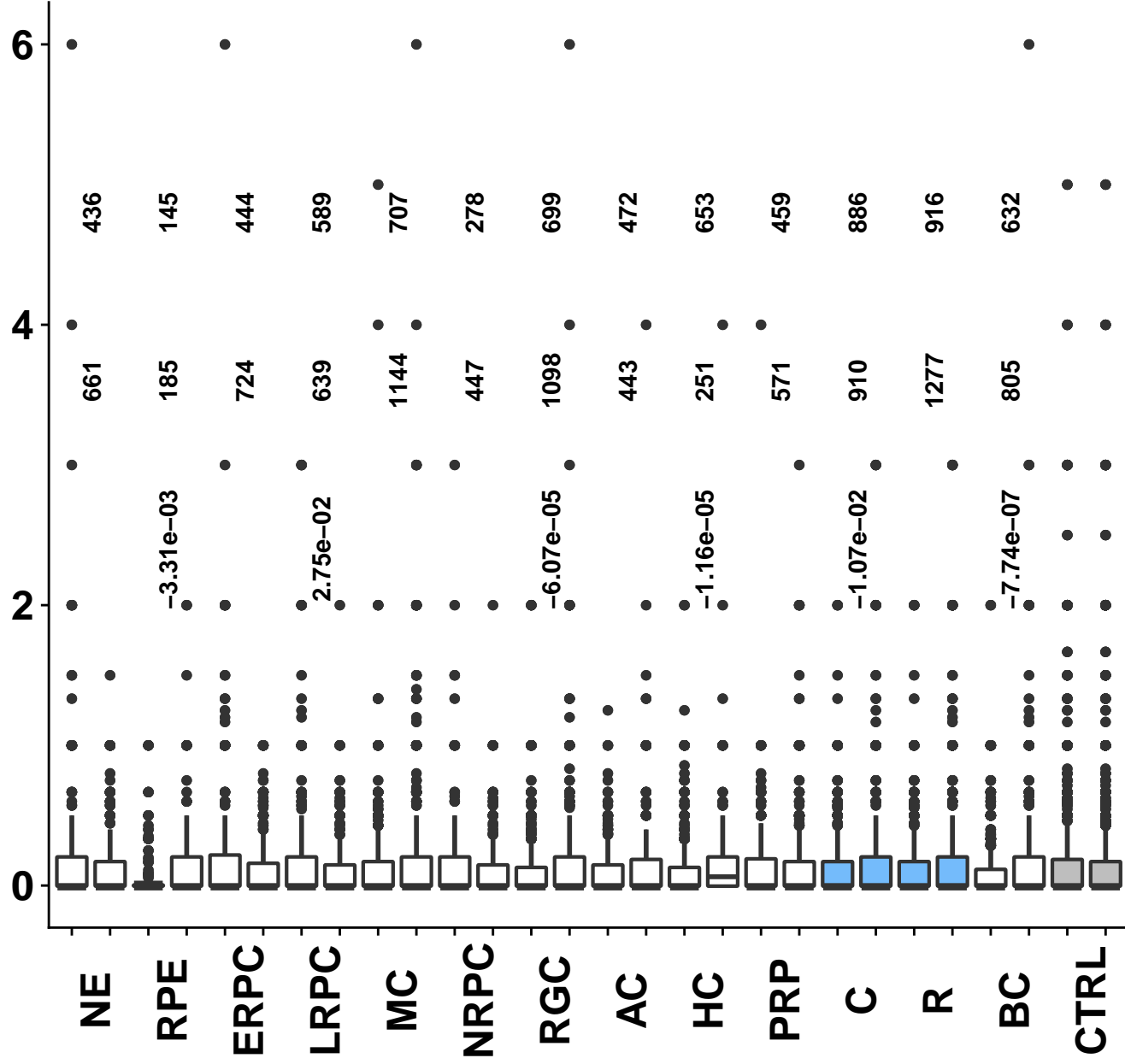
Arid3b_1_mean



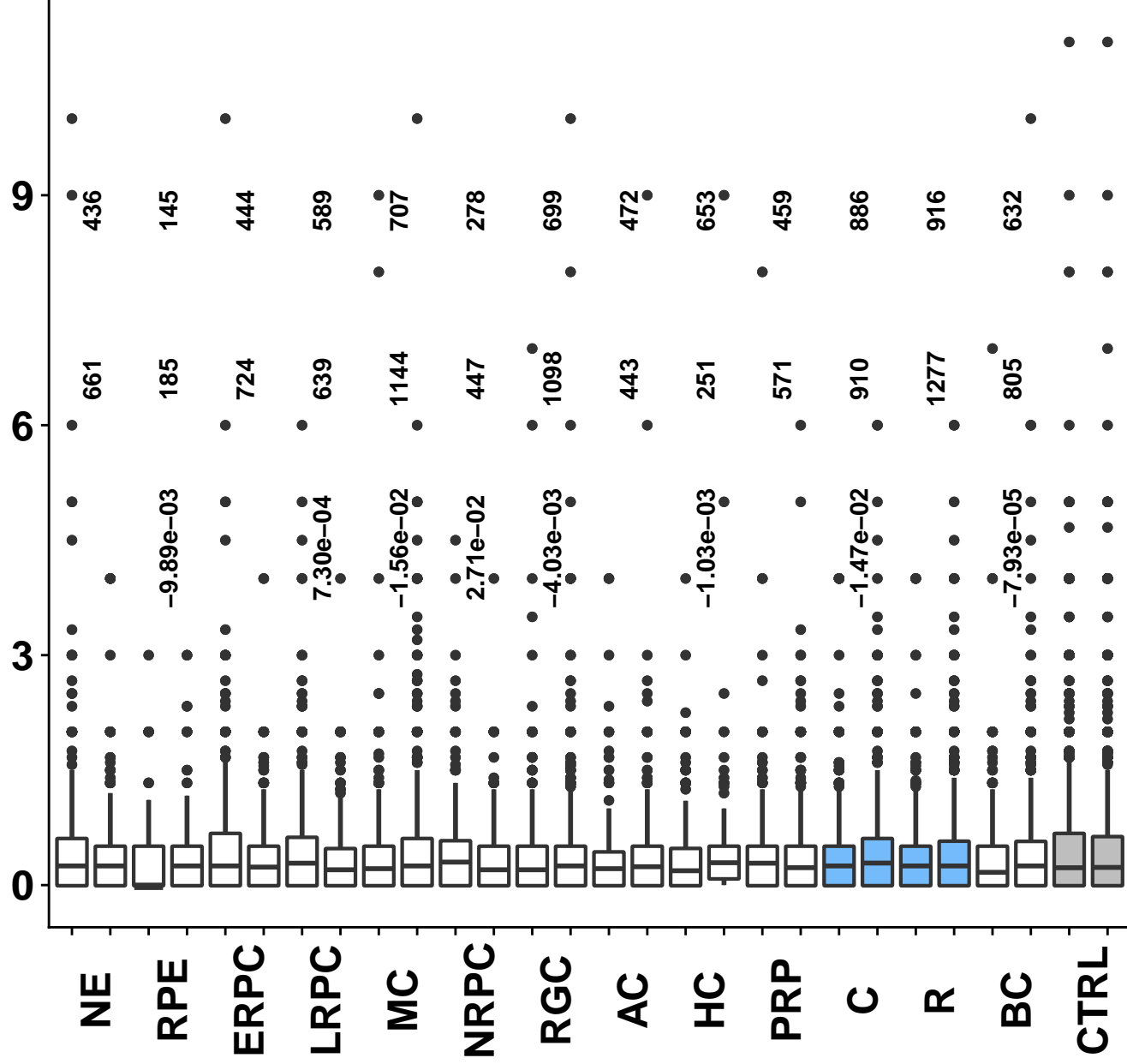
Max_1_mean



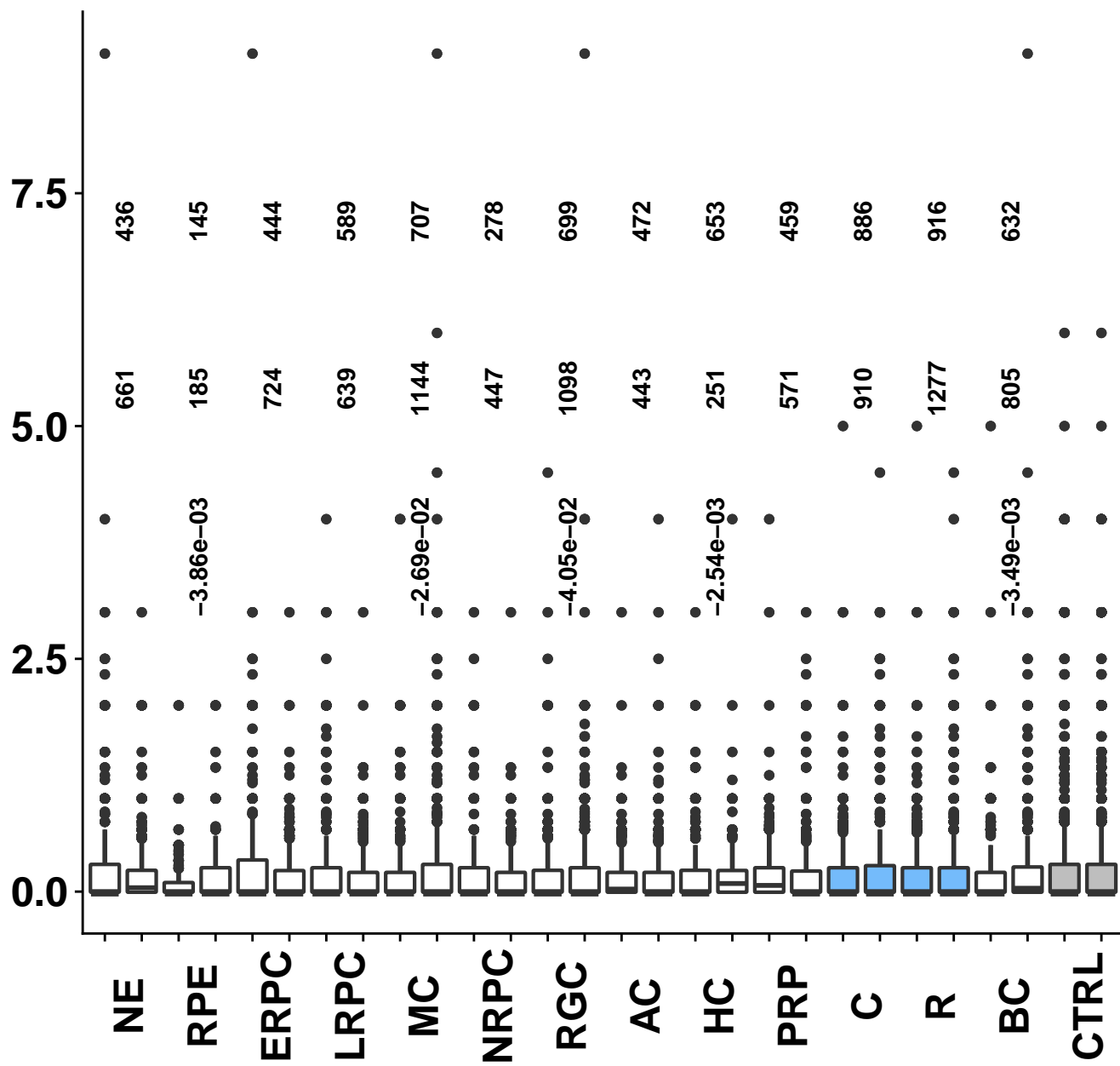
Max_2_mean



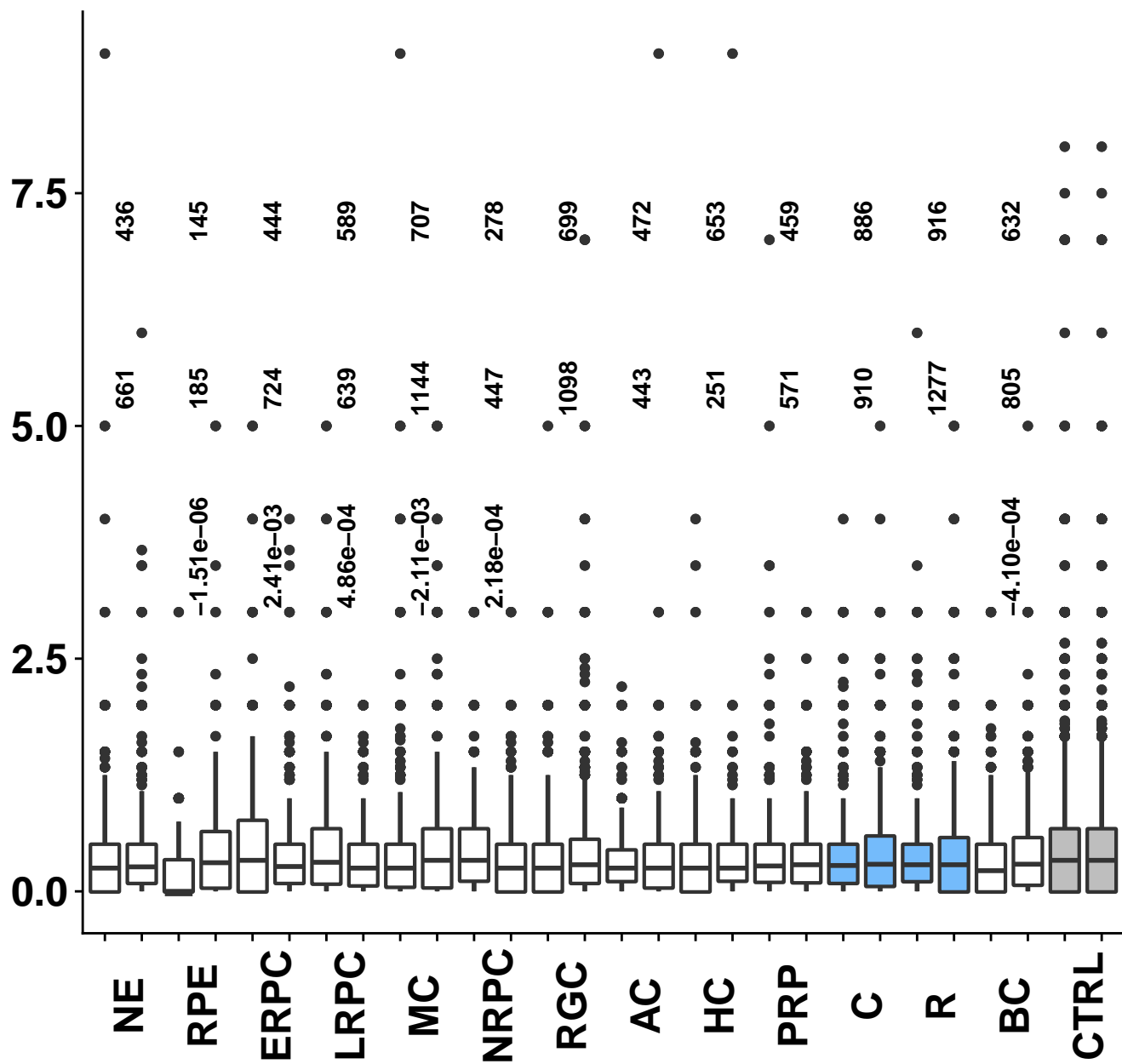
Max_3_mean



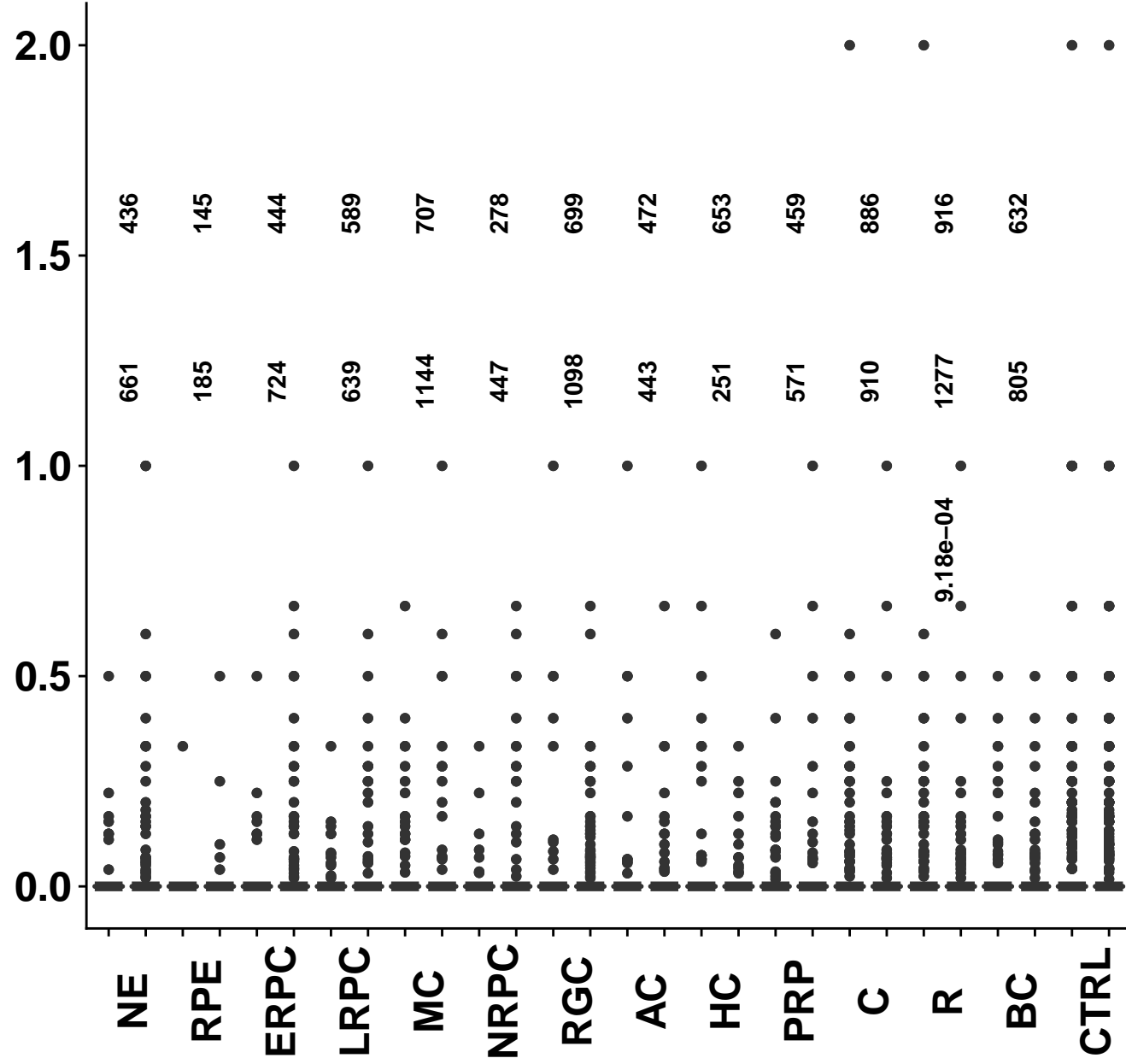
Max_4_mean



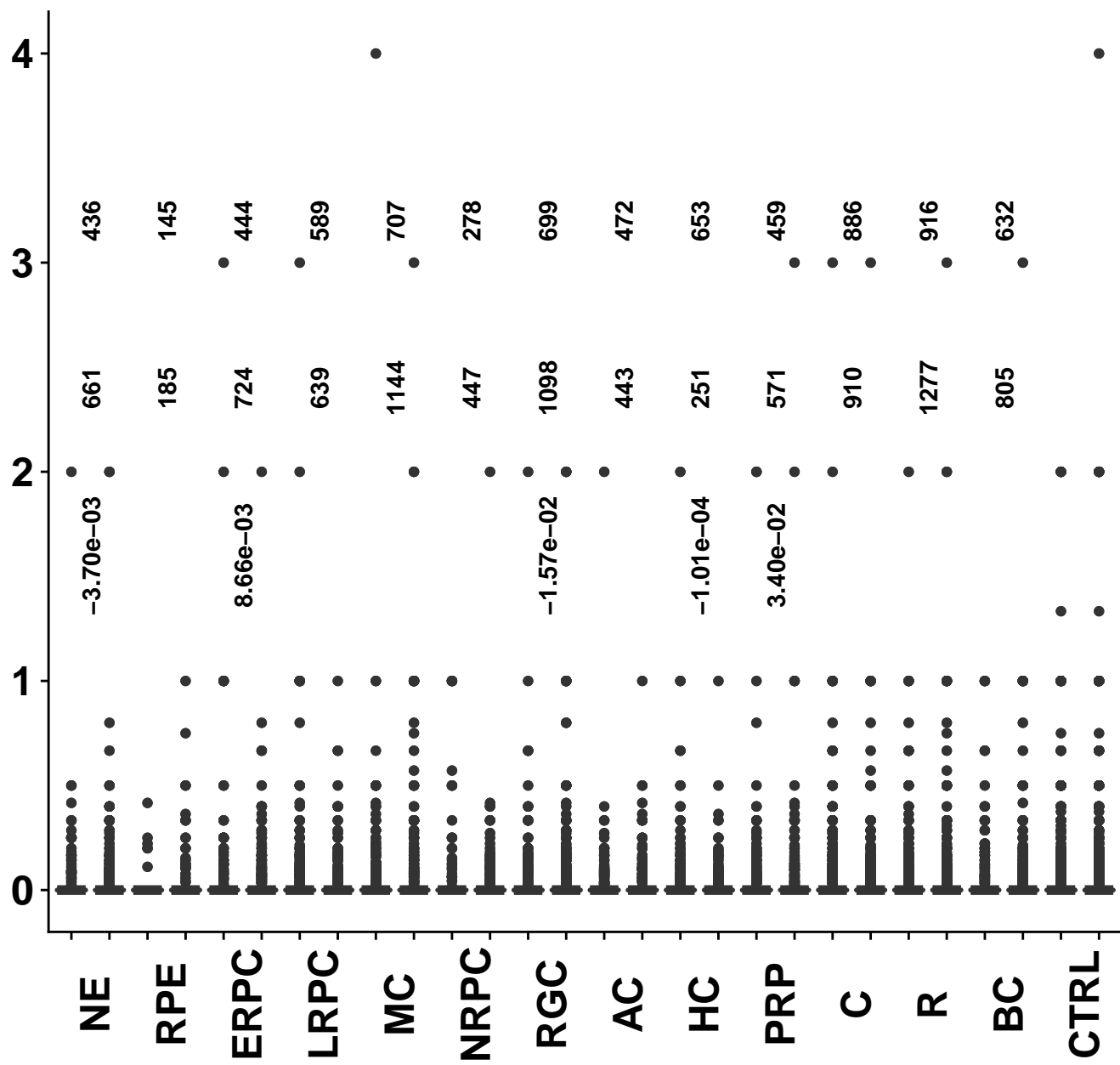
Max_5_mean



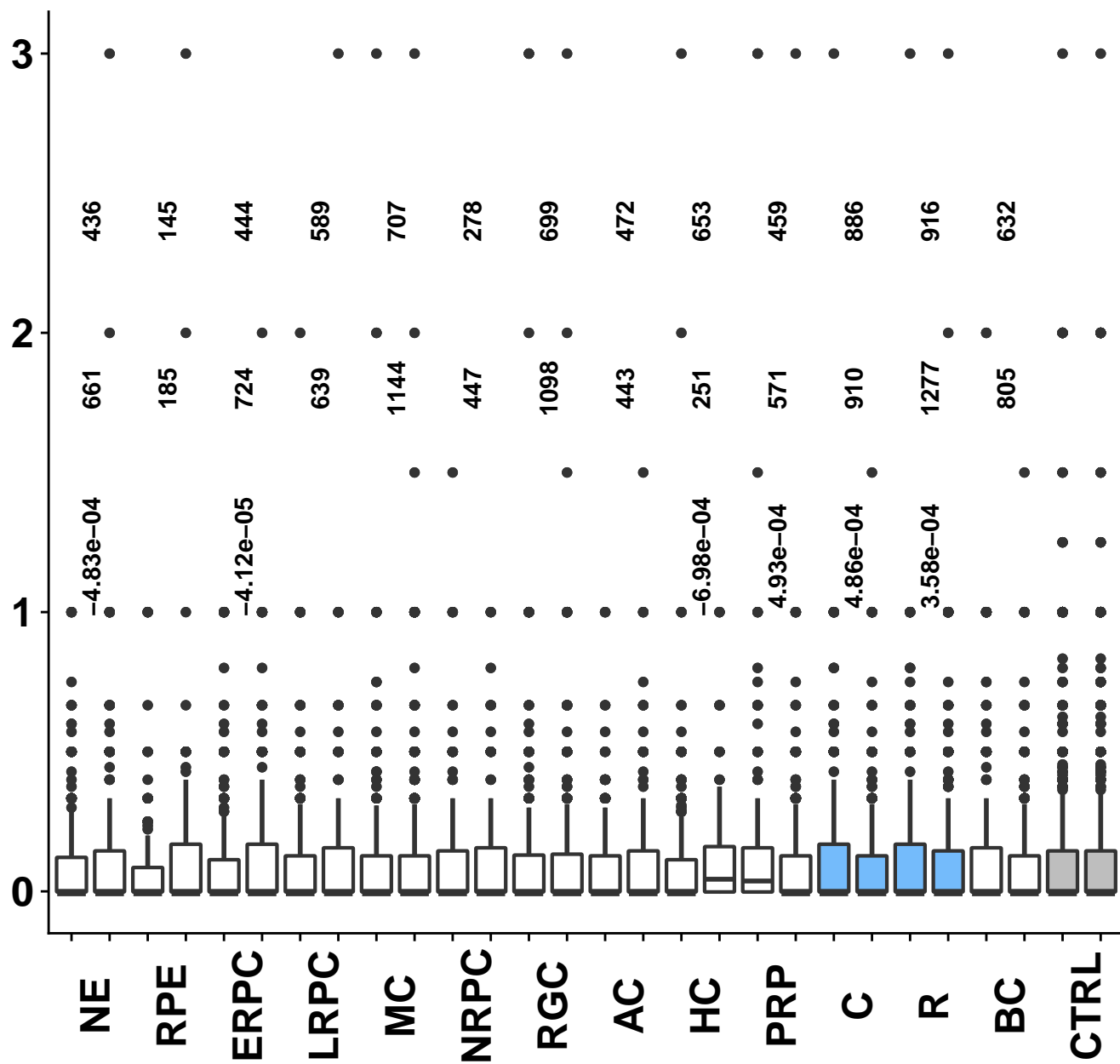
Nr3c1_1_mean



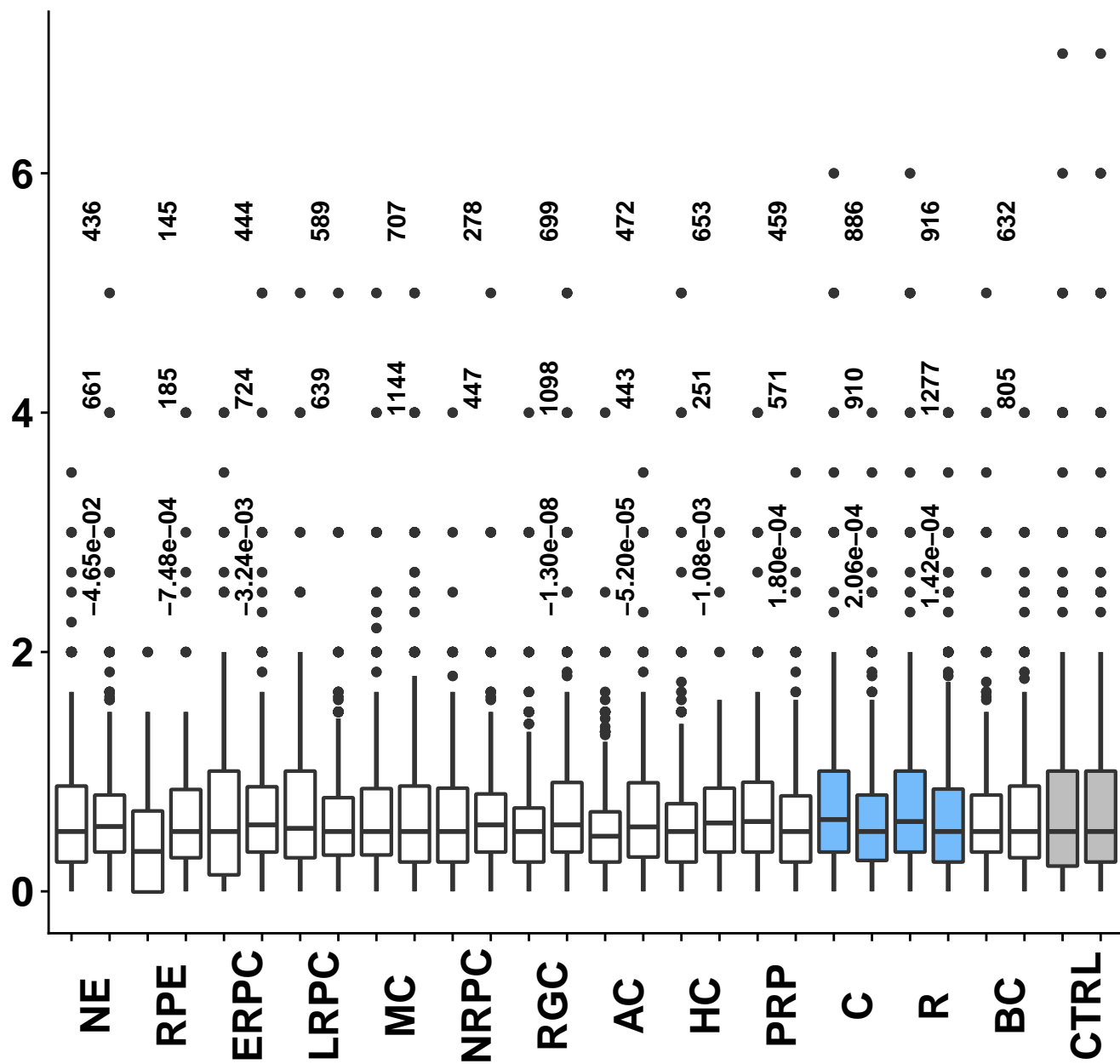
Tef_1_mean



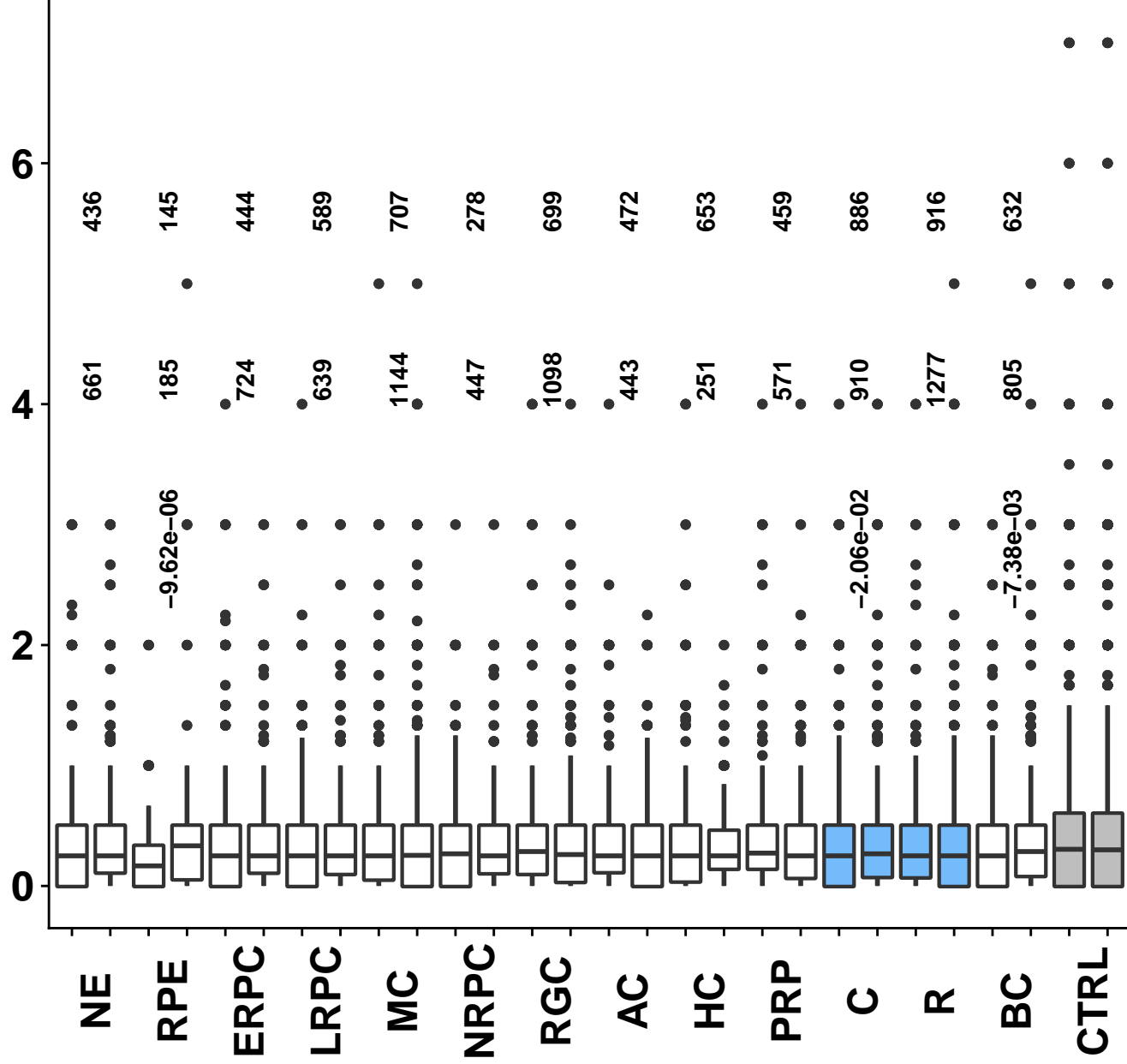
Thrb_1_mean



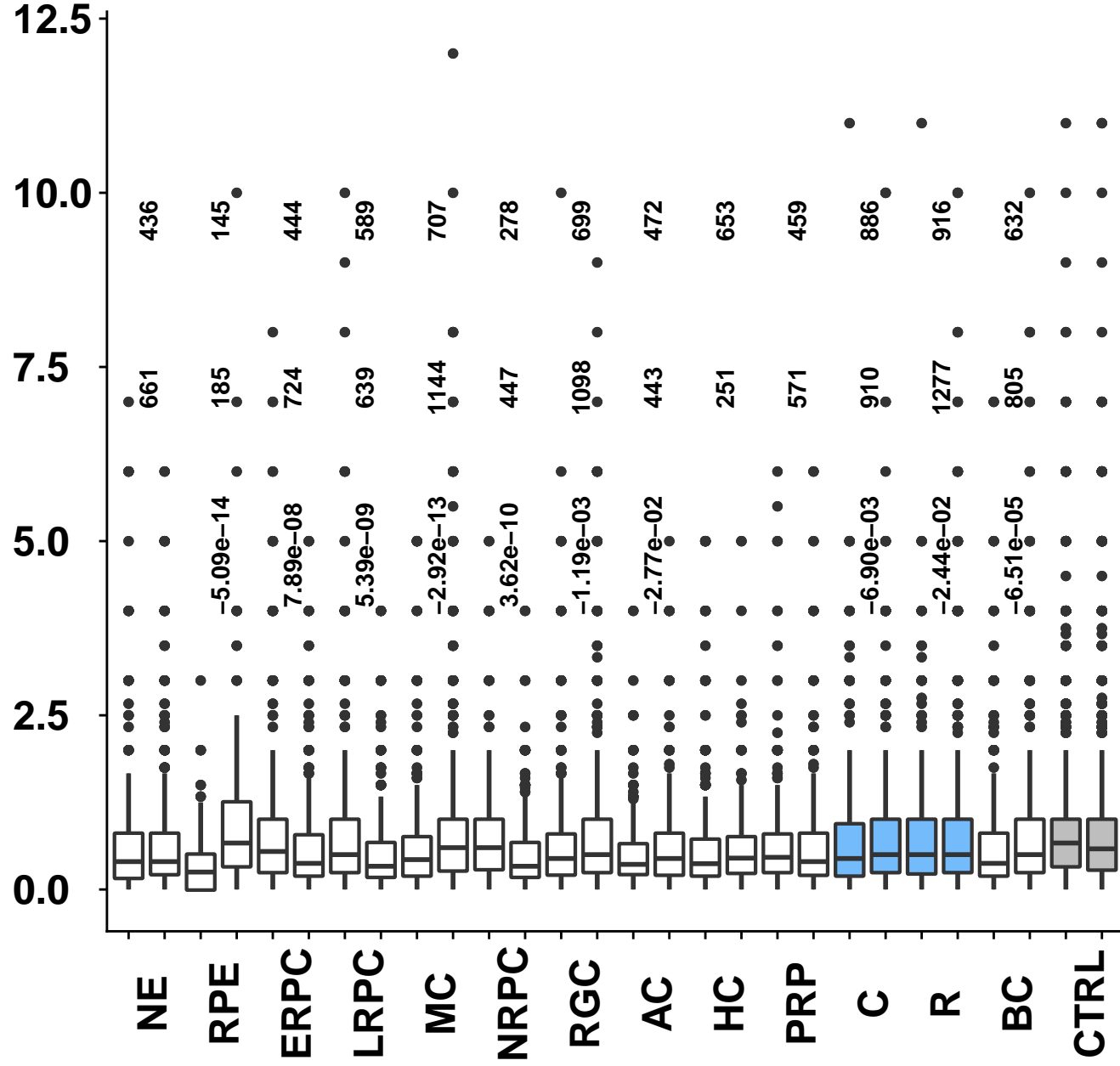
Thrb_2_mean



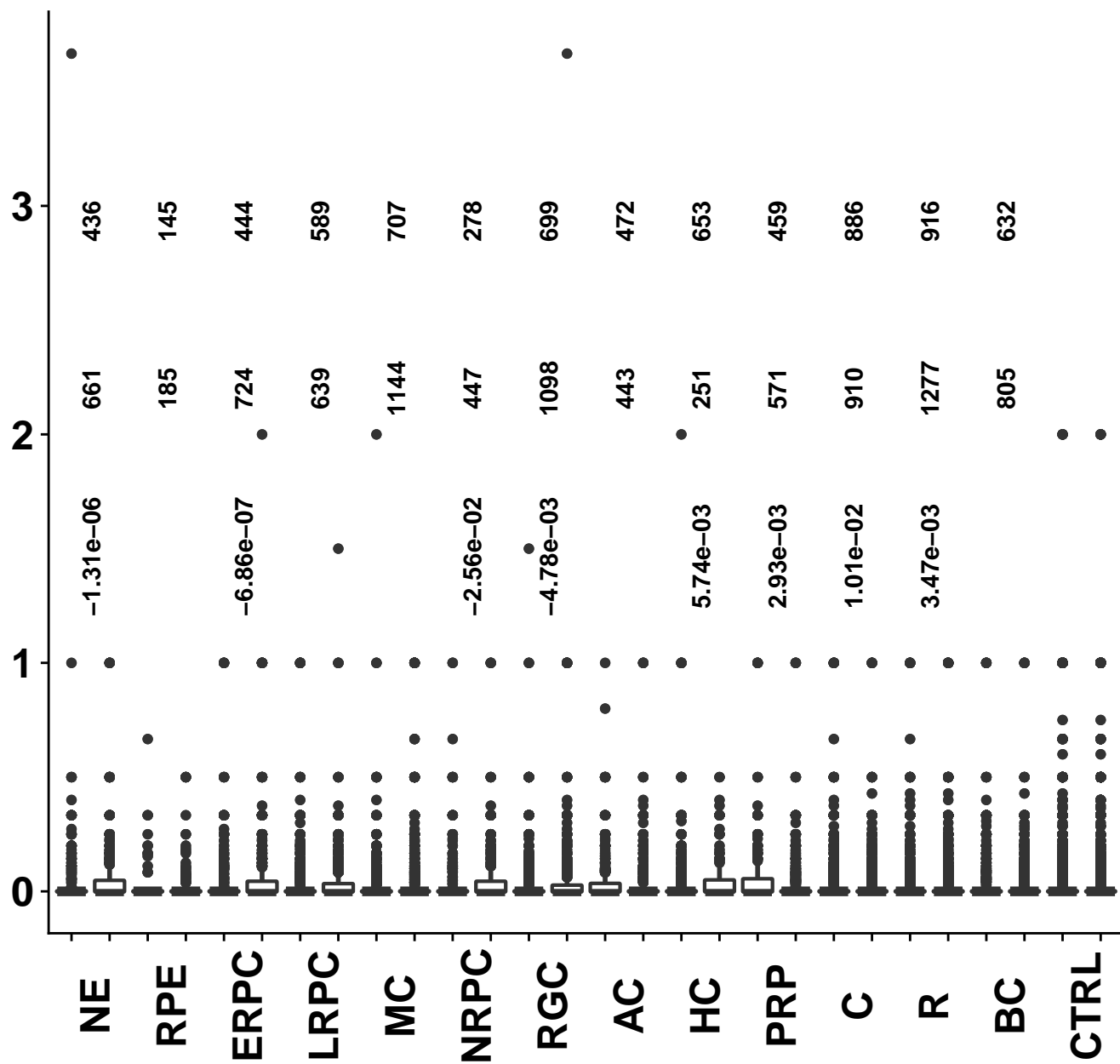
Zbtb7a_1_mean



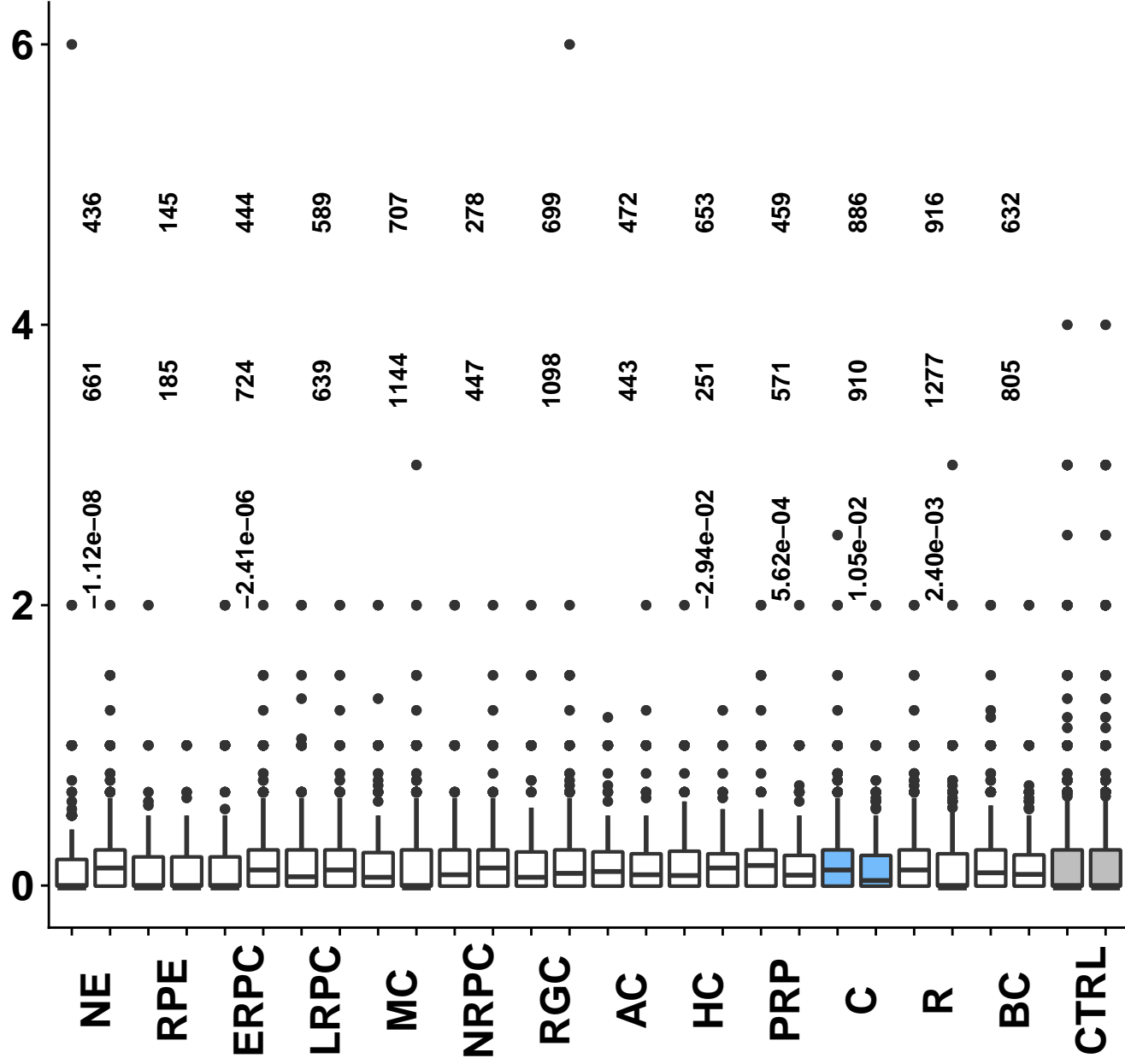
Zbtb7a_2_mean



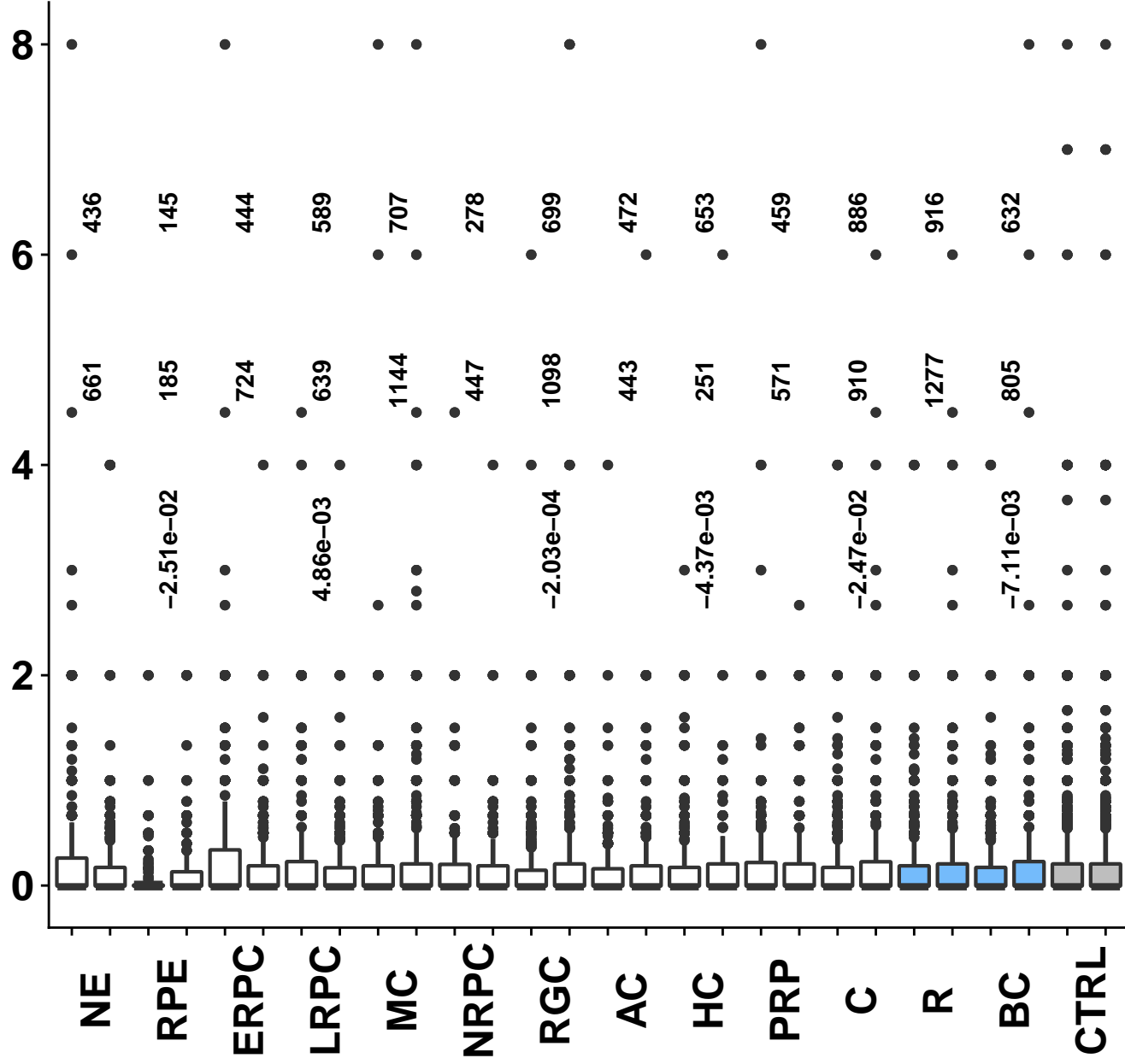
Pbx3_1_mean



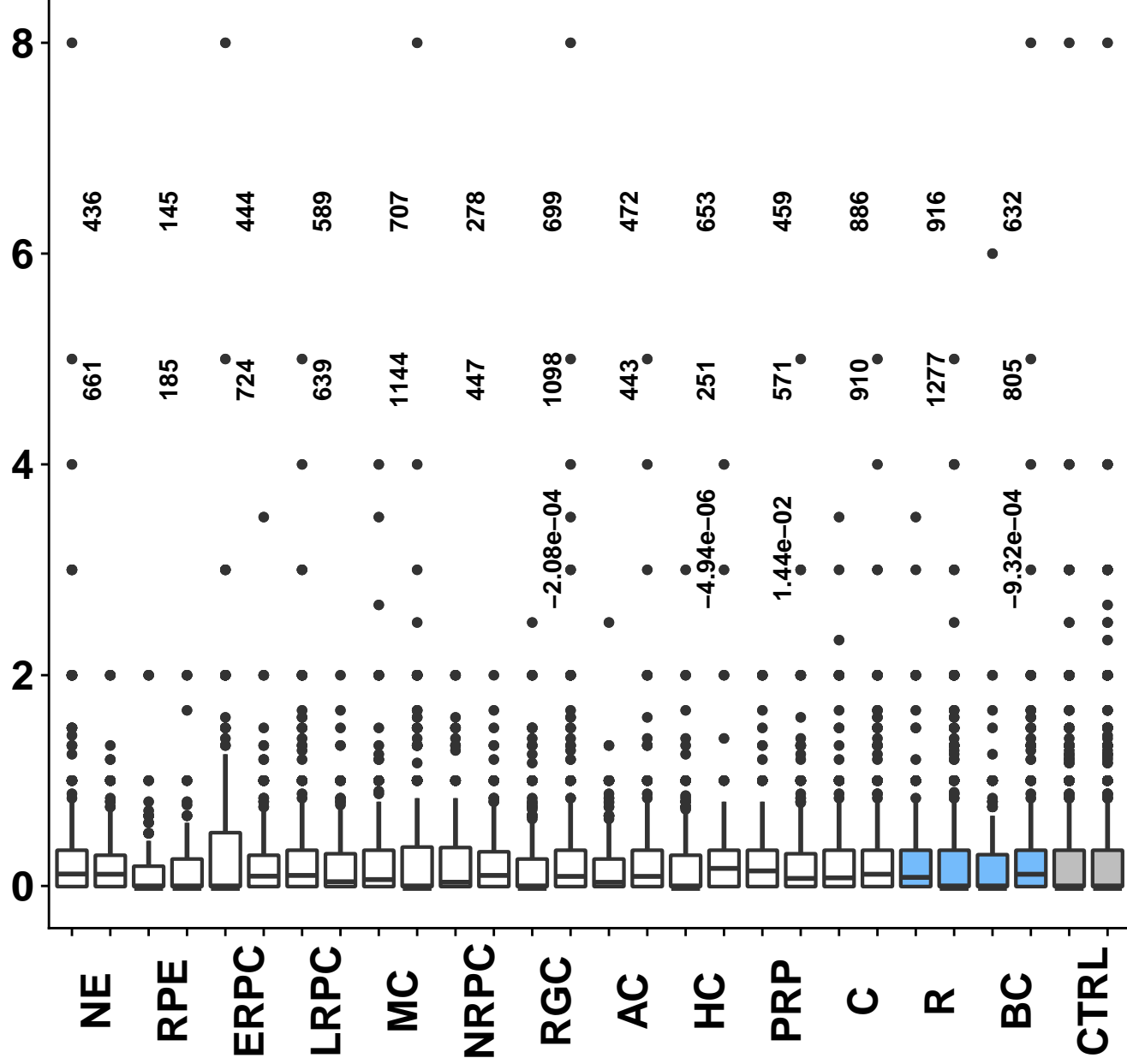
Pbx3_2_mean



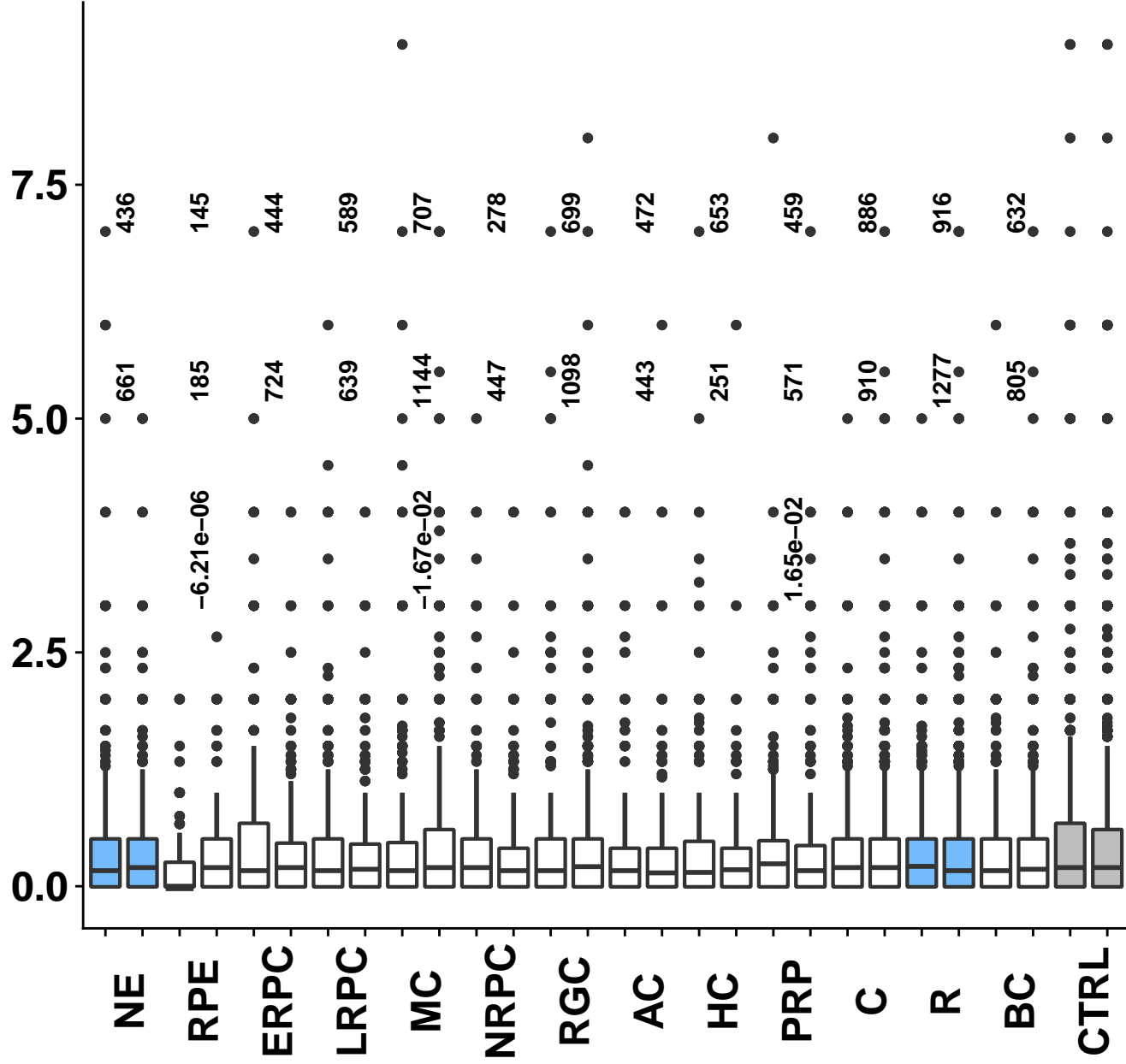
Clock_1_mean



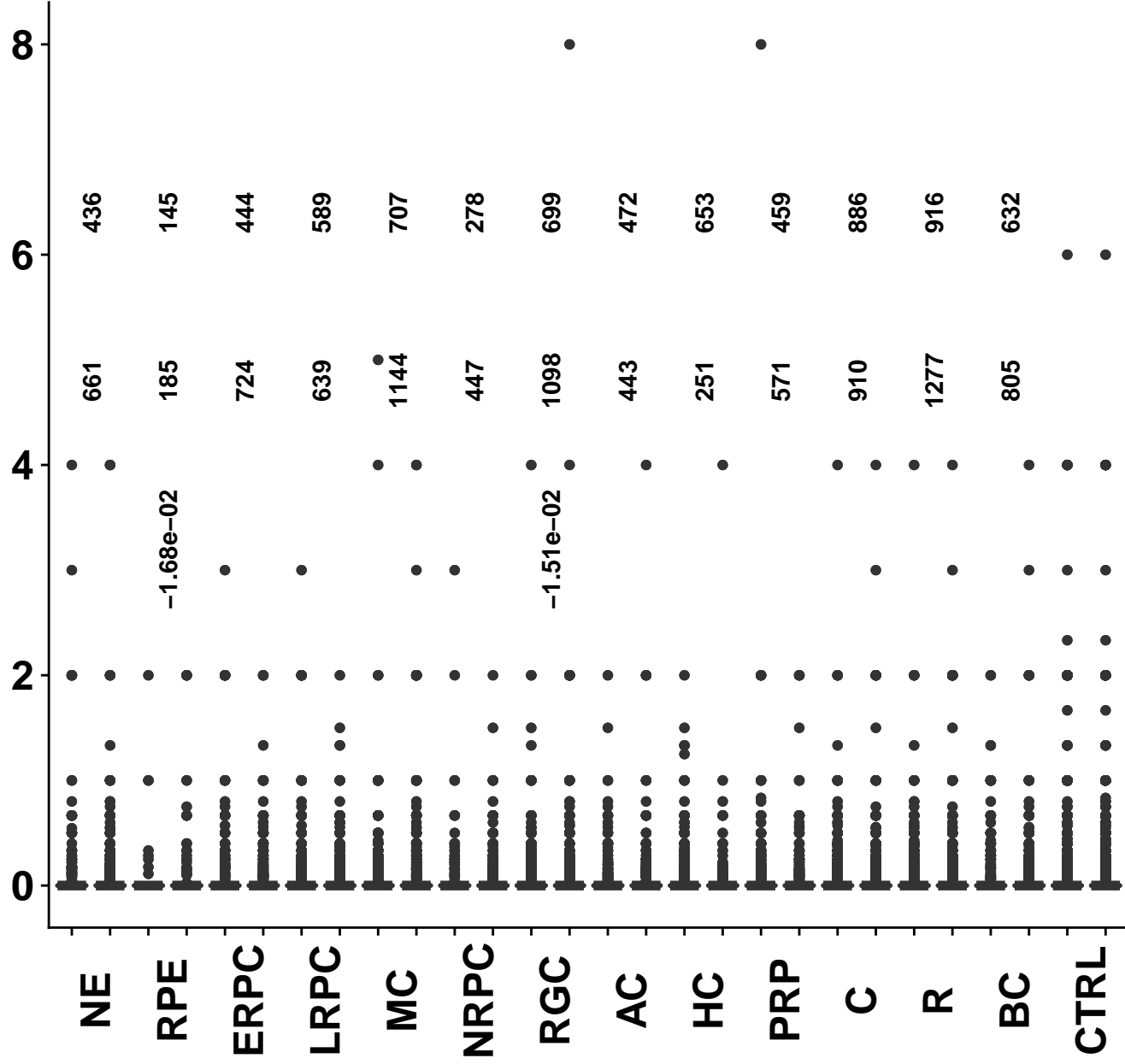
Clock_2_mean



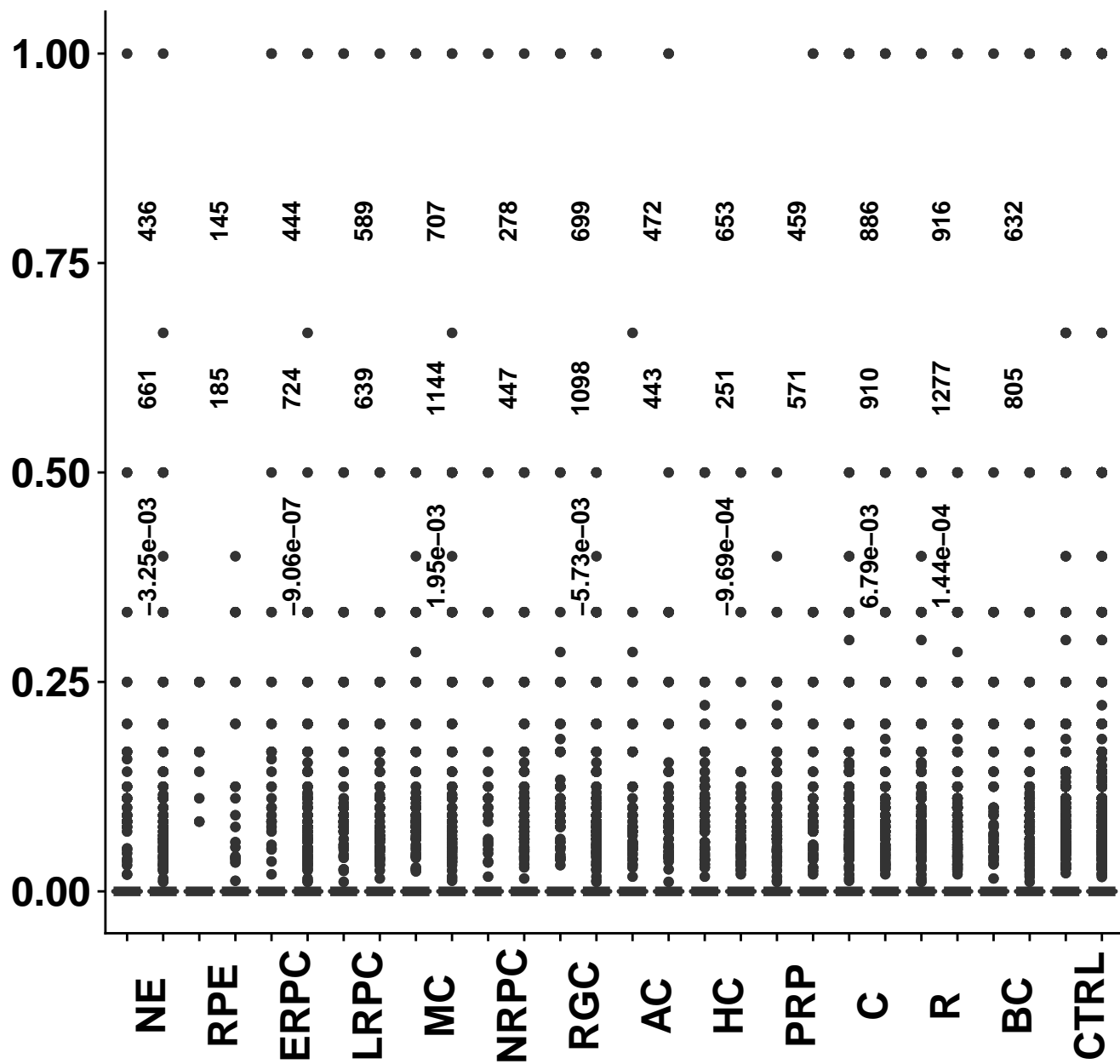
Bhlhe41_1_mean



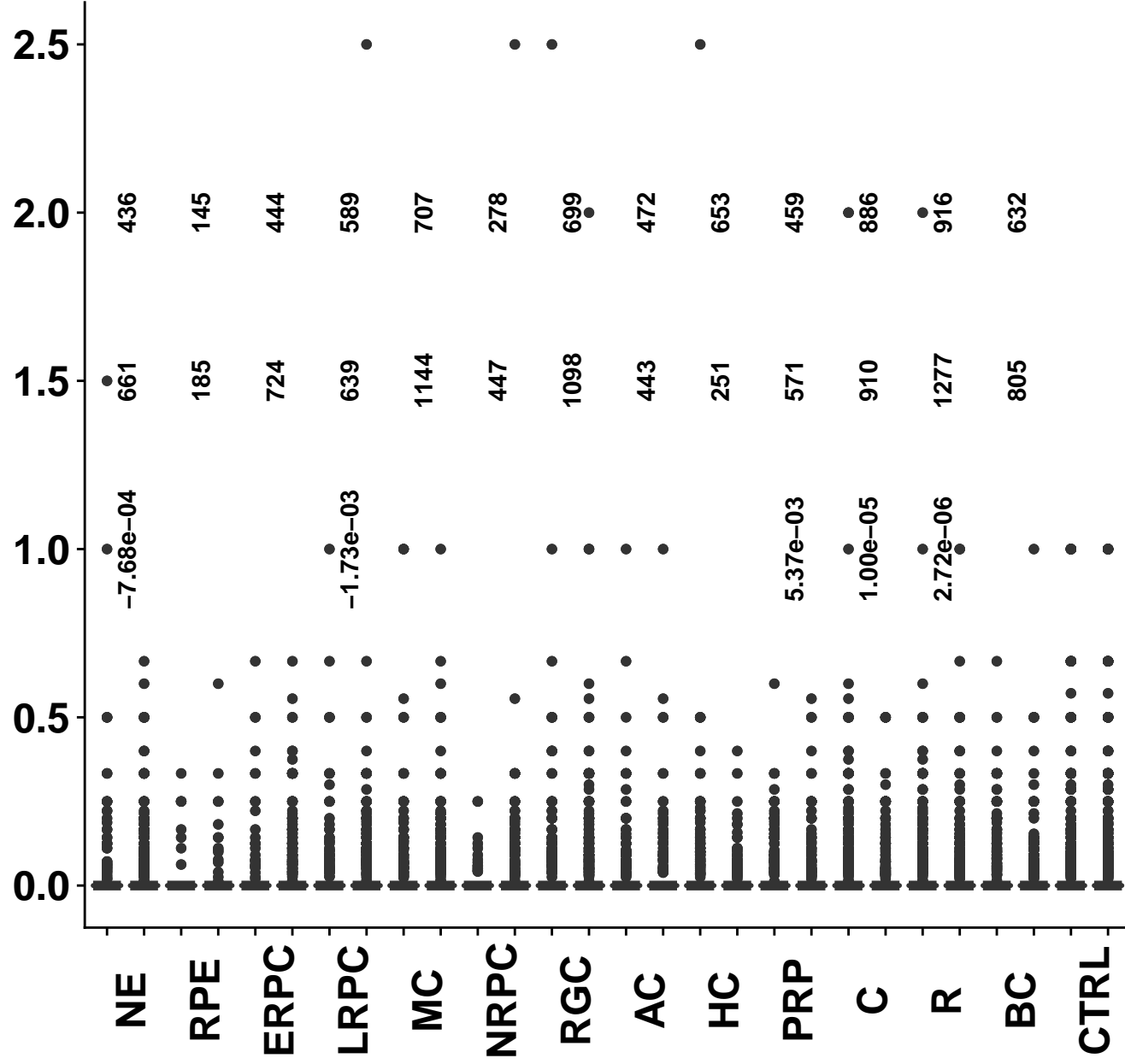
Bhlhe41_2_mean



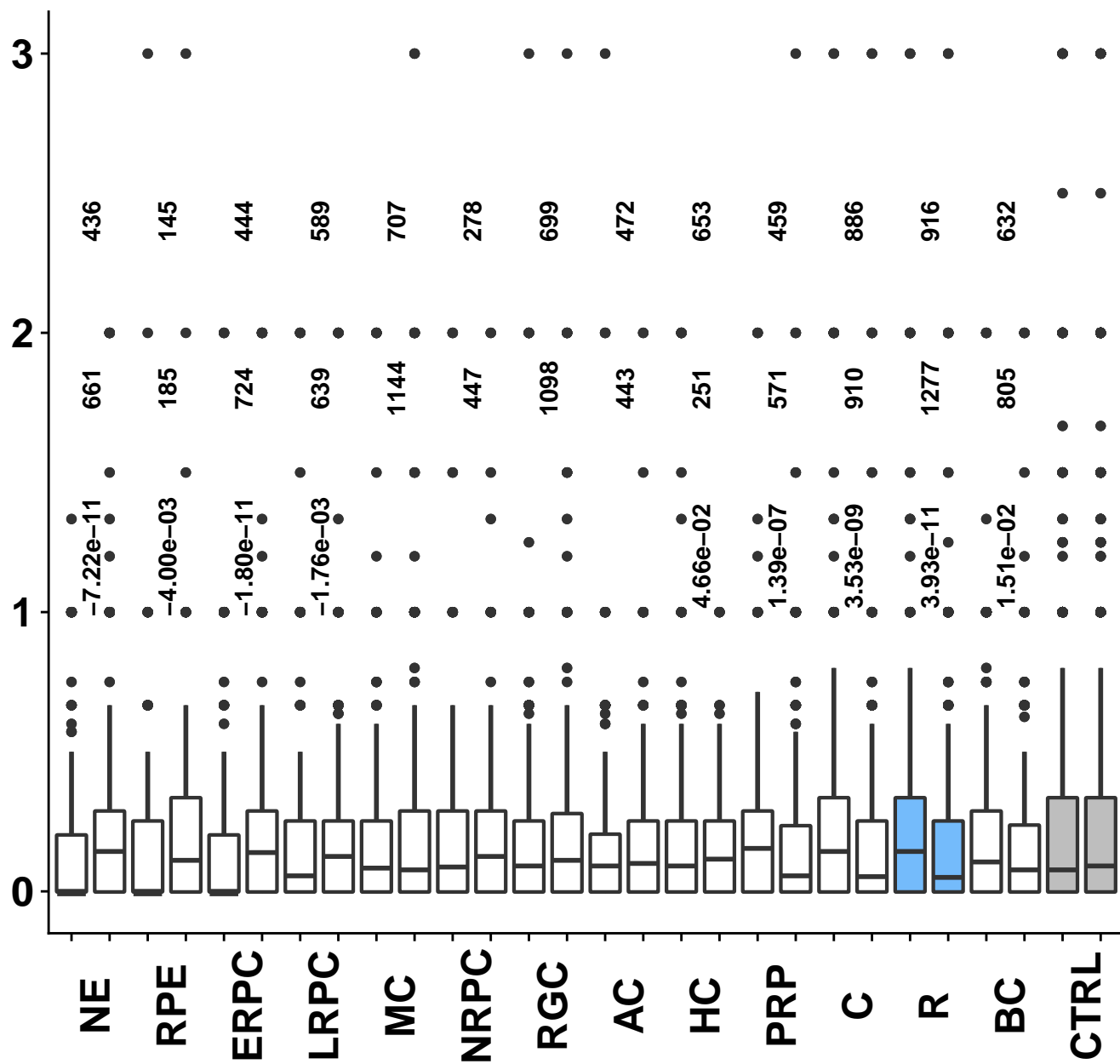
Mef2a_1_mean



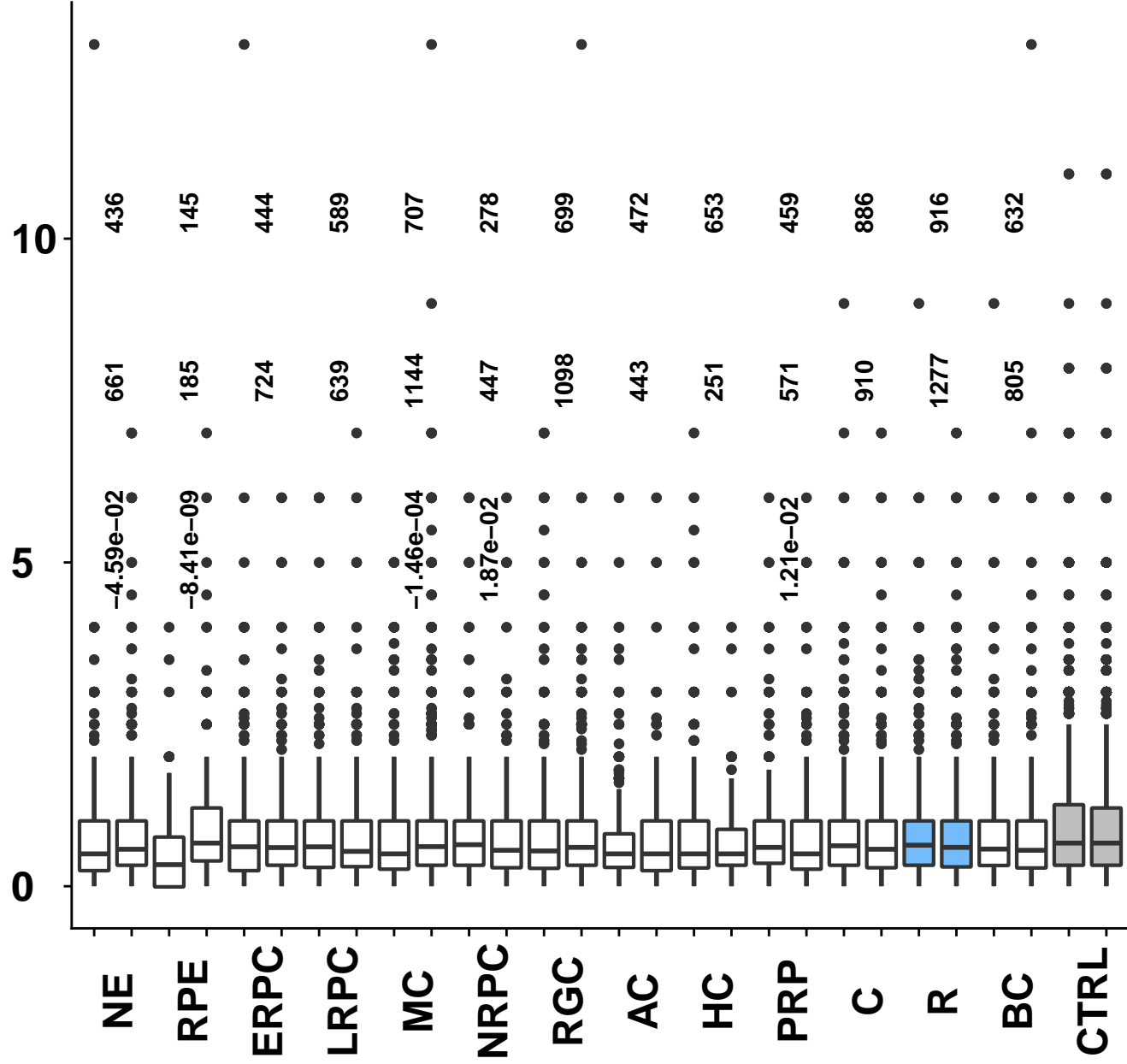
Mef2a_2_mean



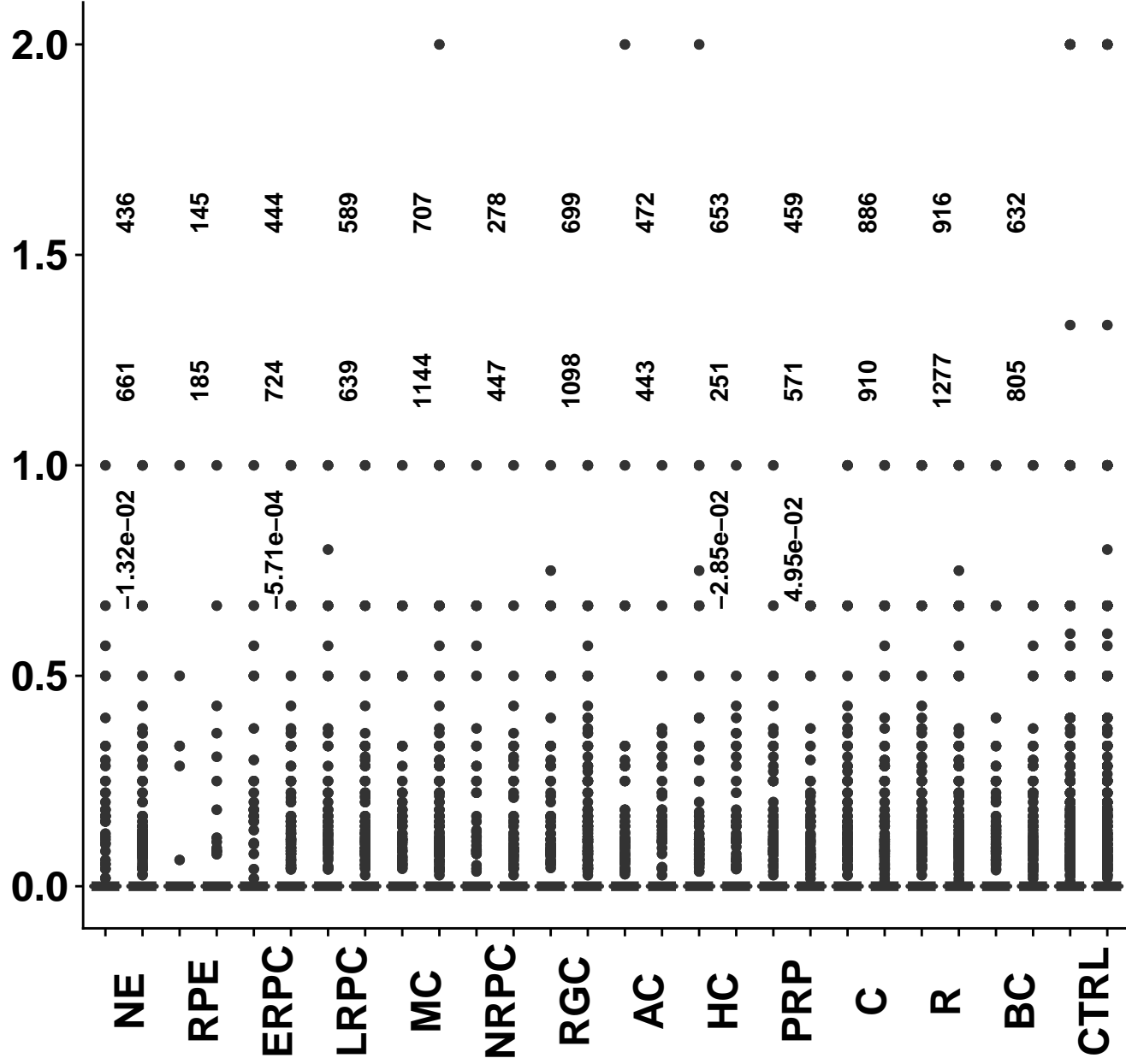
Zeb1_1_mean



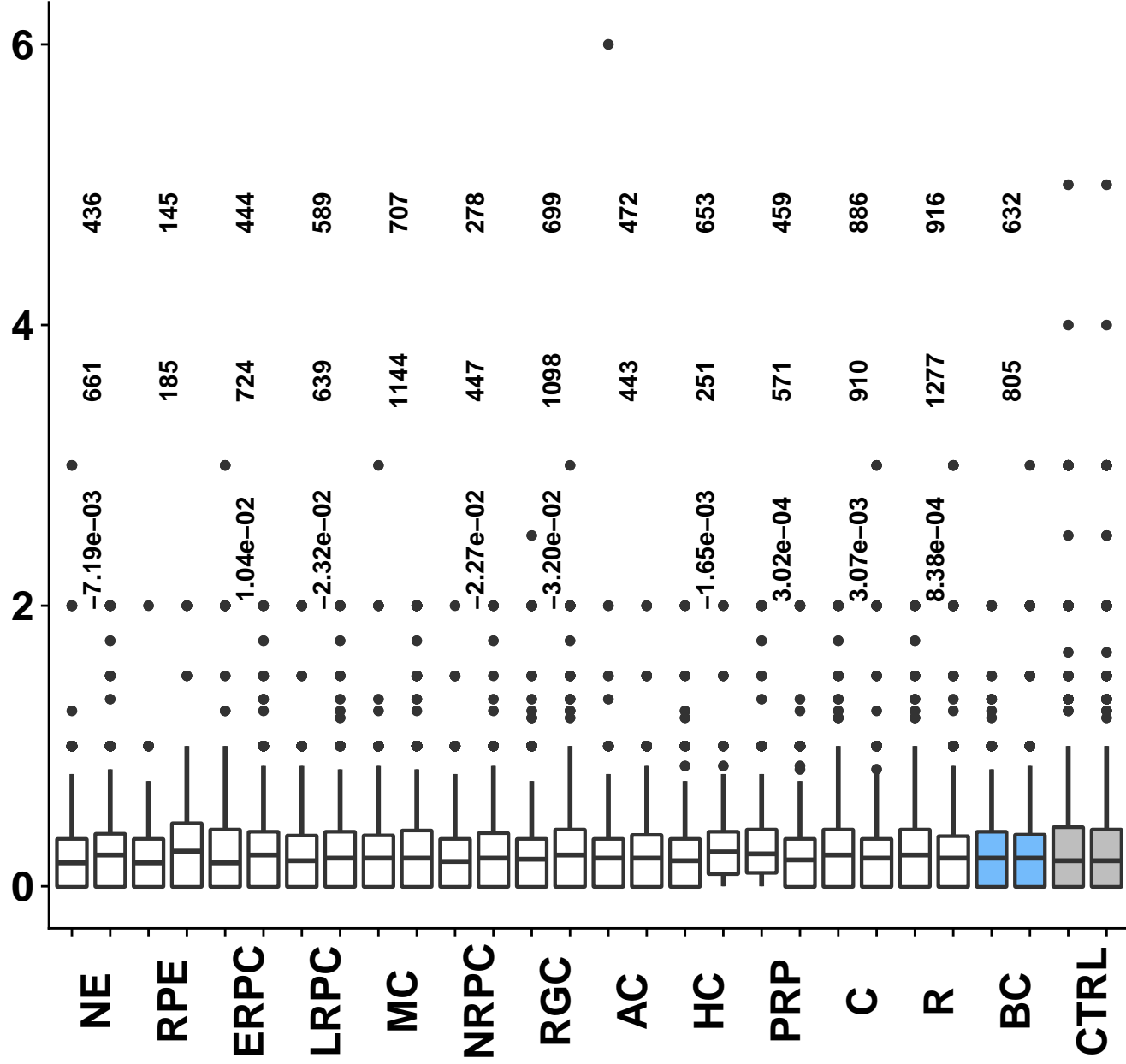
Zeb1_2_mean



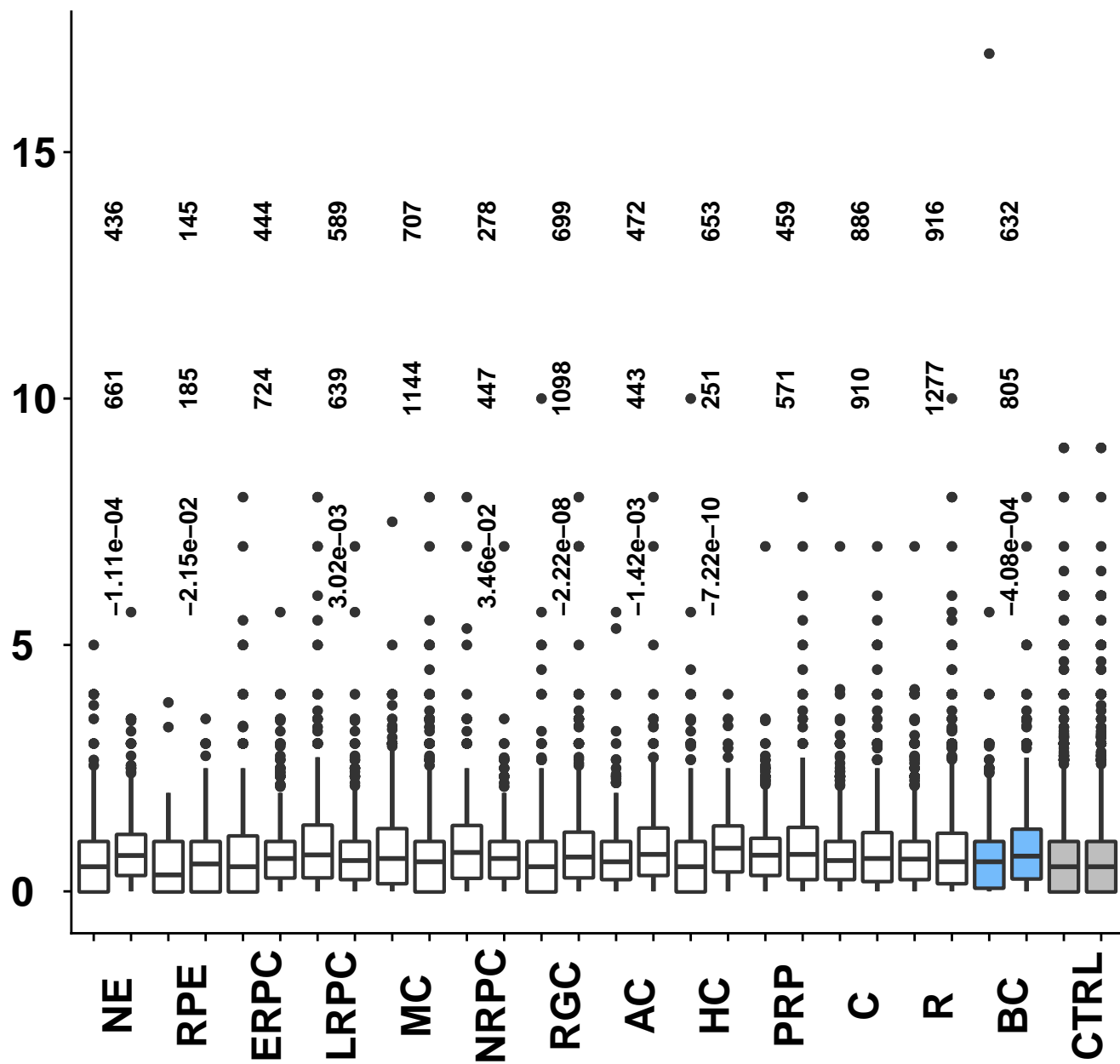
Bhlhe23_1_mean



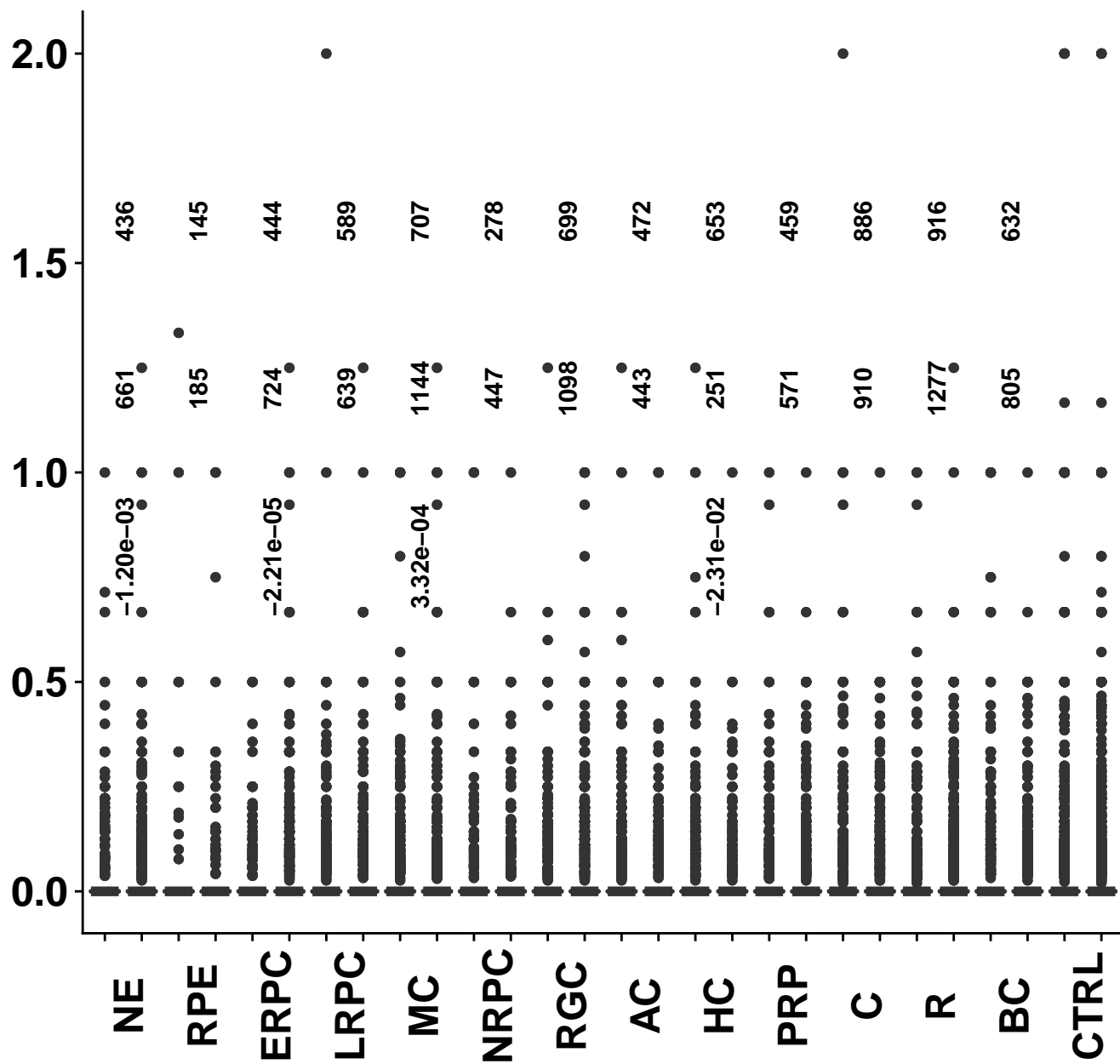
Tbx2_3_mean



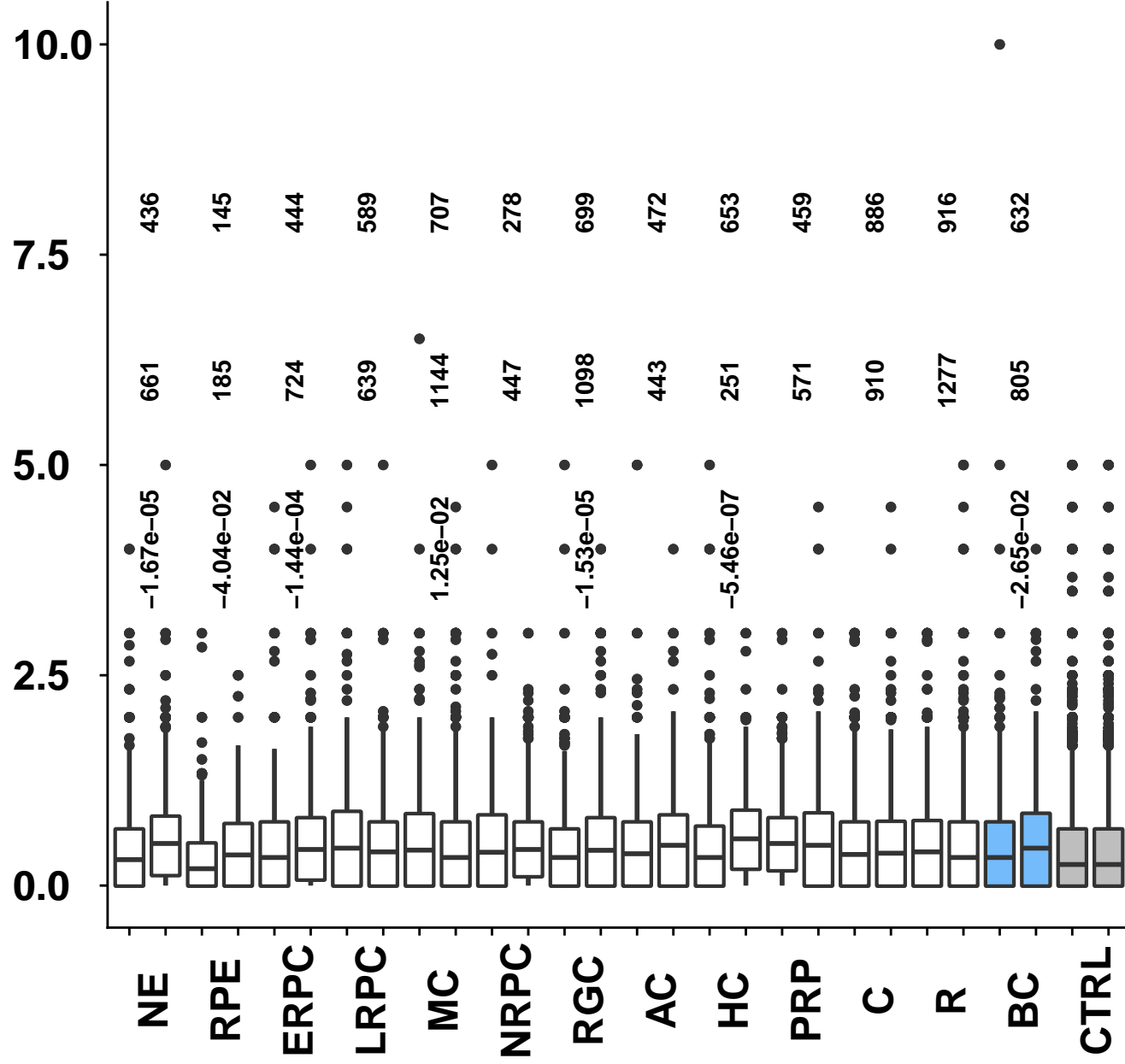
Vsx1_1_mean



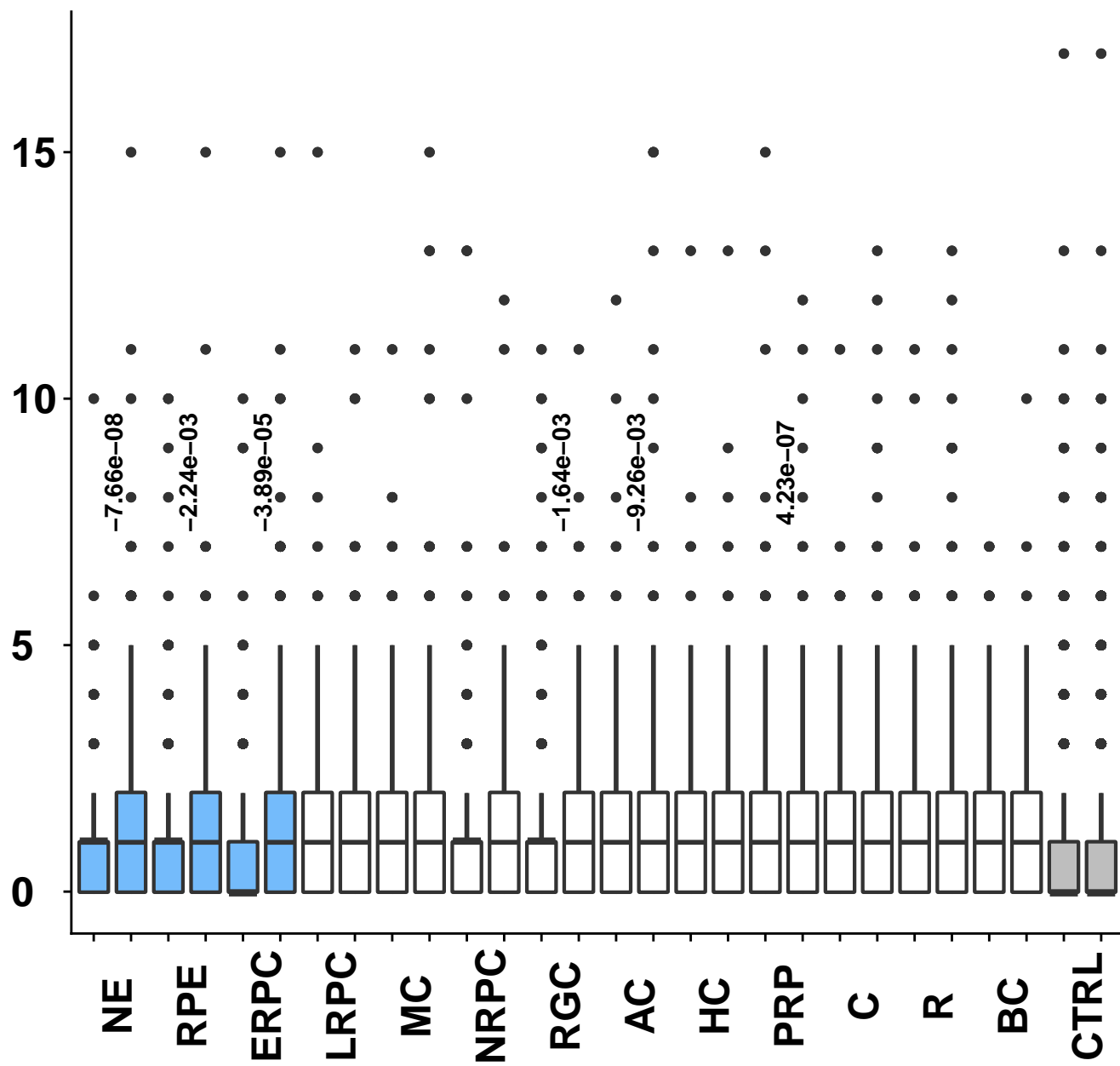
Vsx1_2_mean



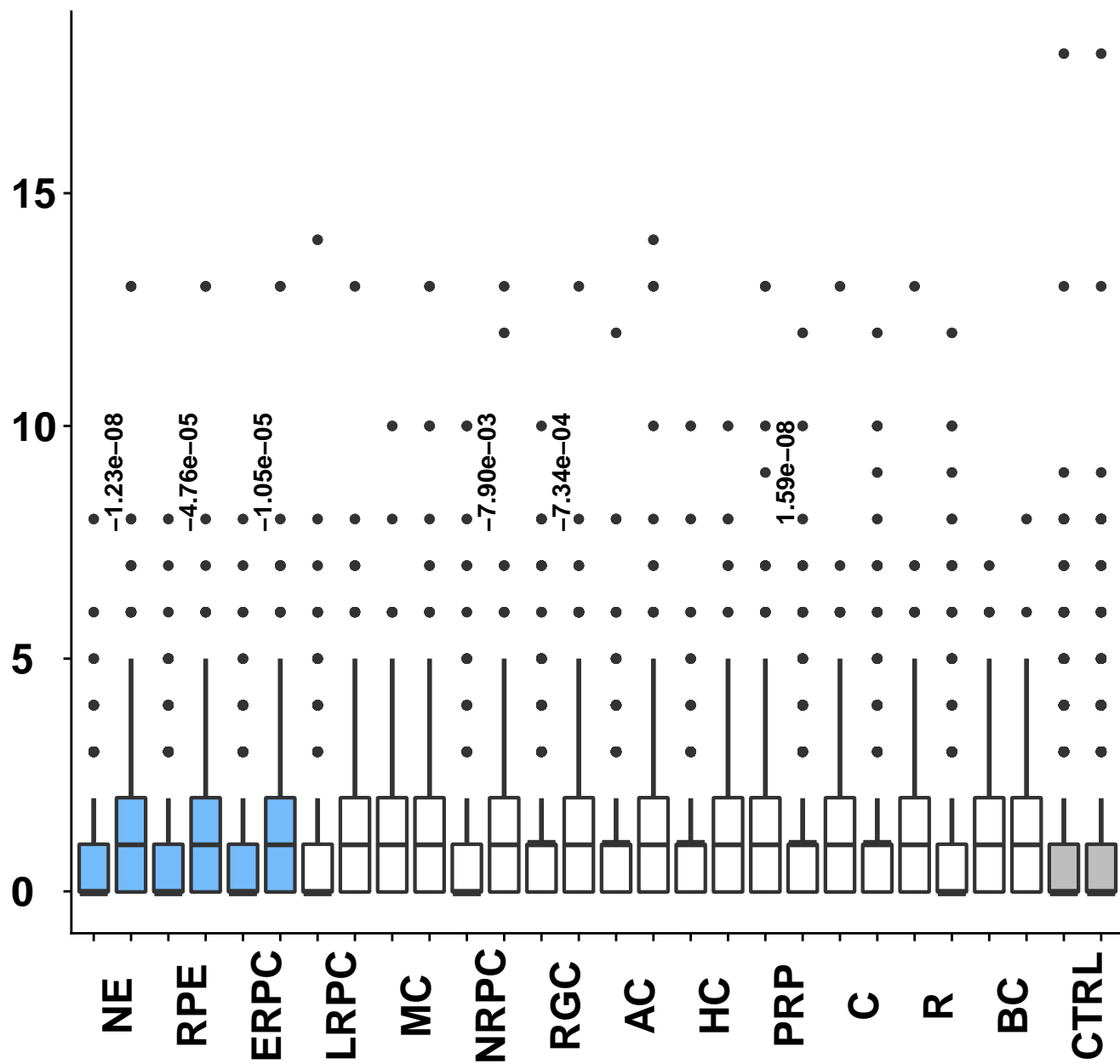
Vsx2_1_mean



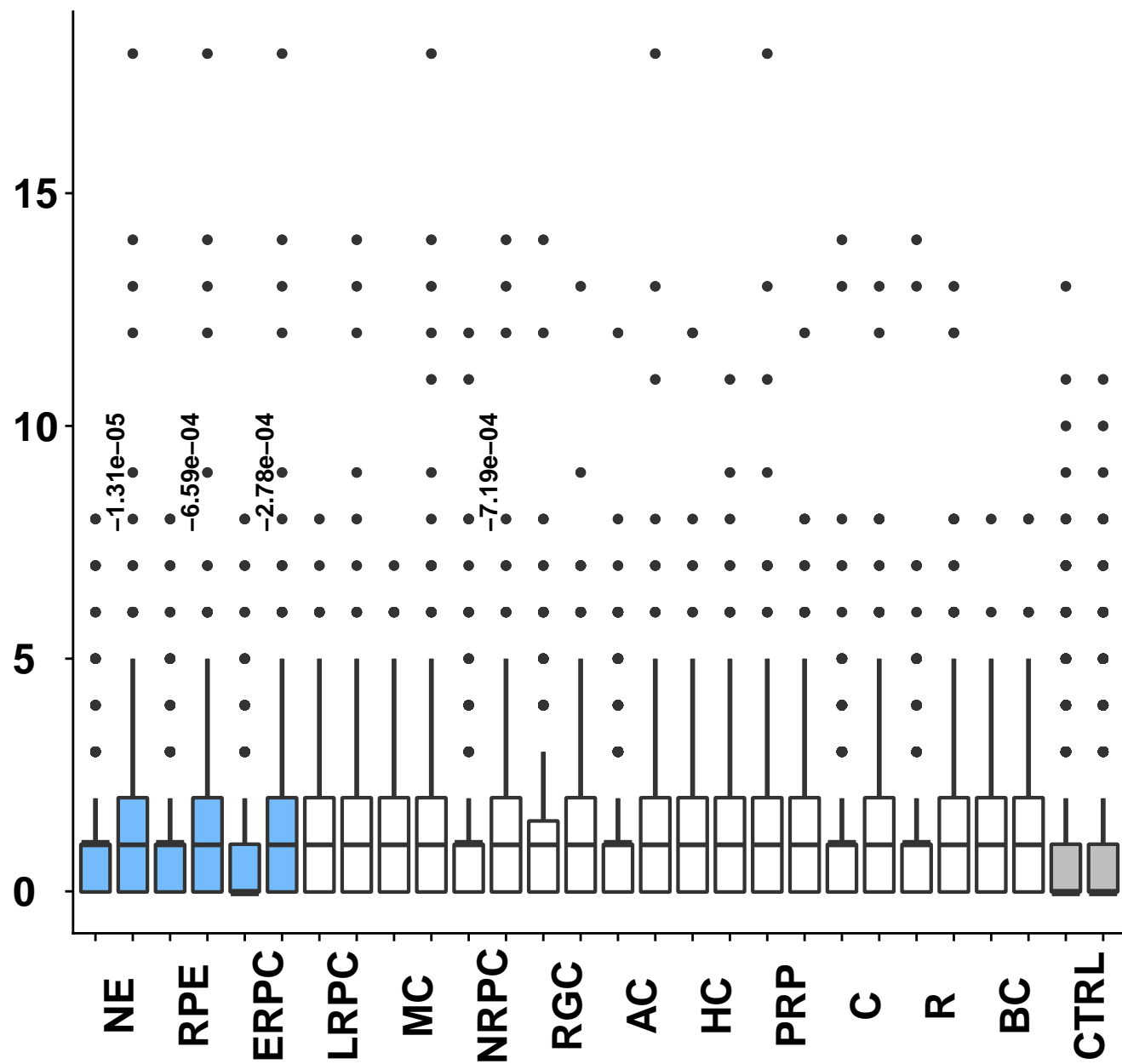
Nr2f1_1_total



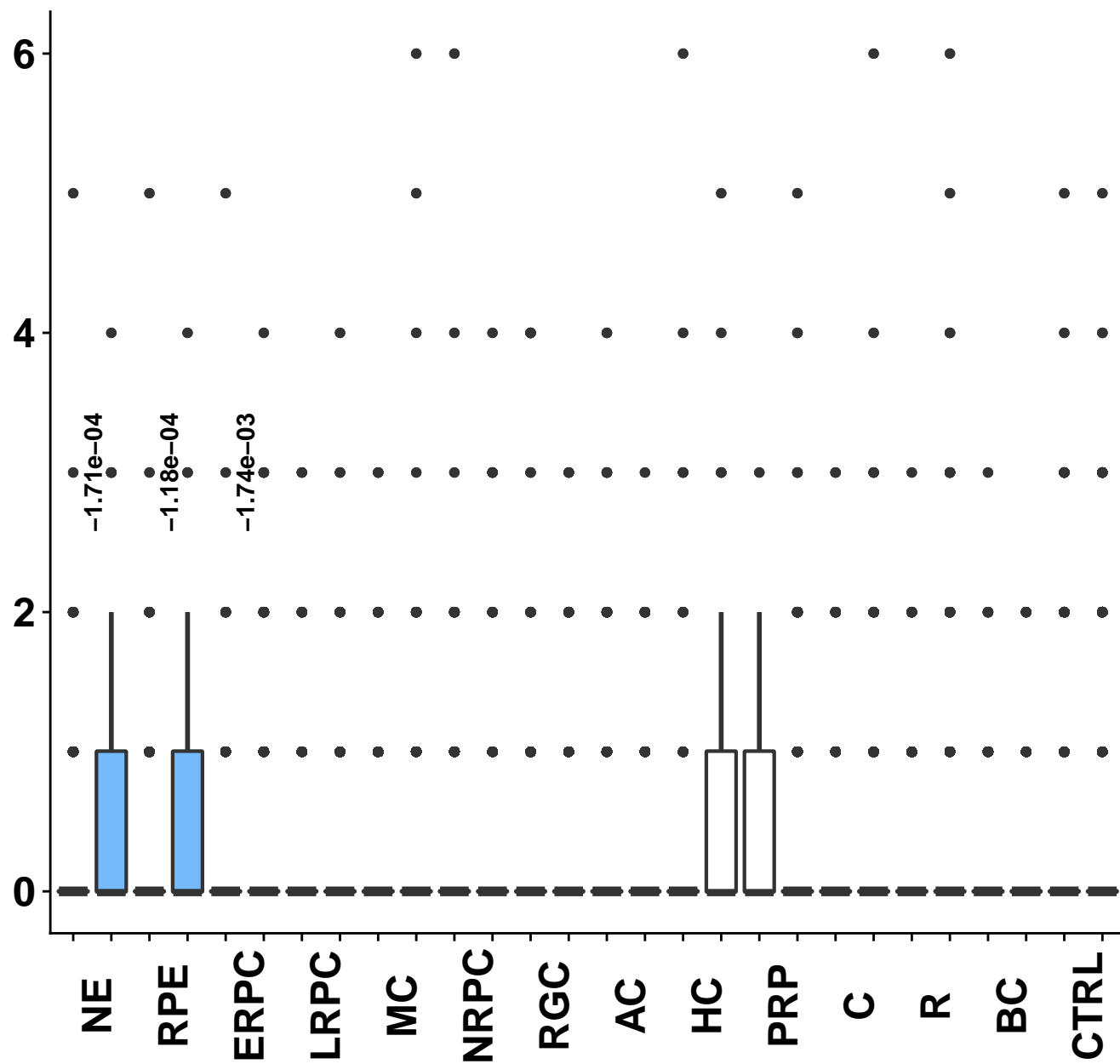
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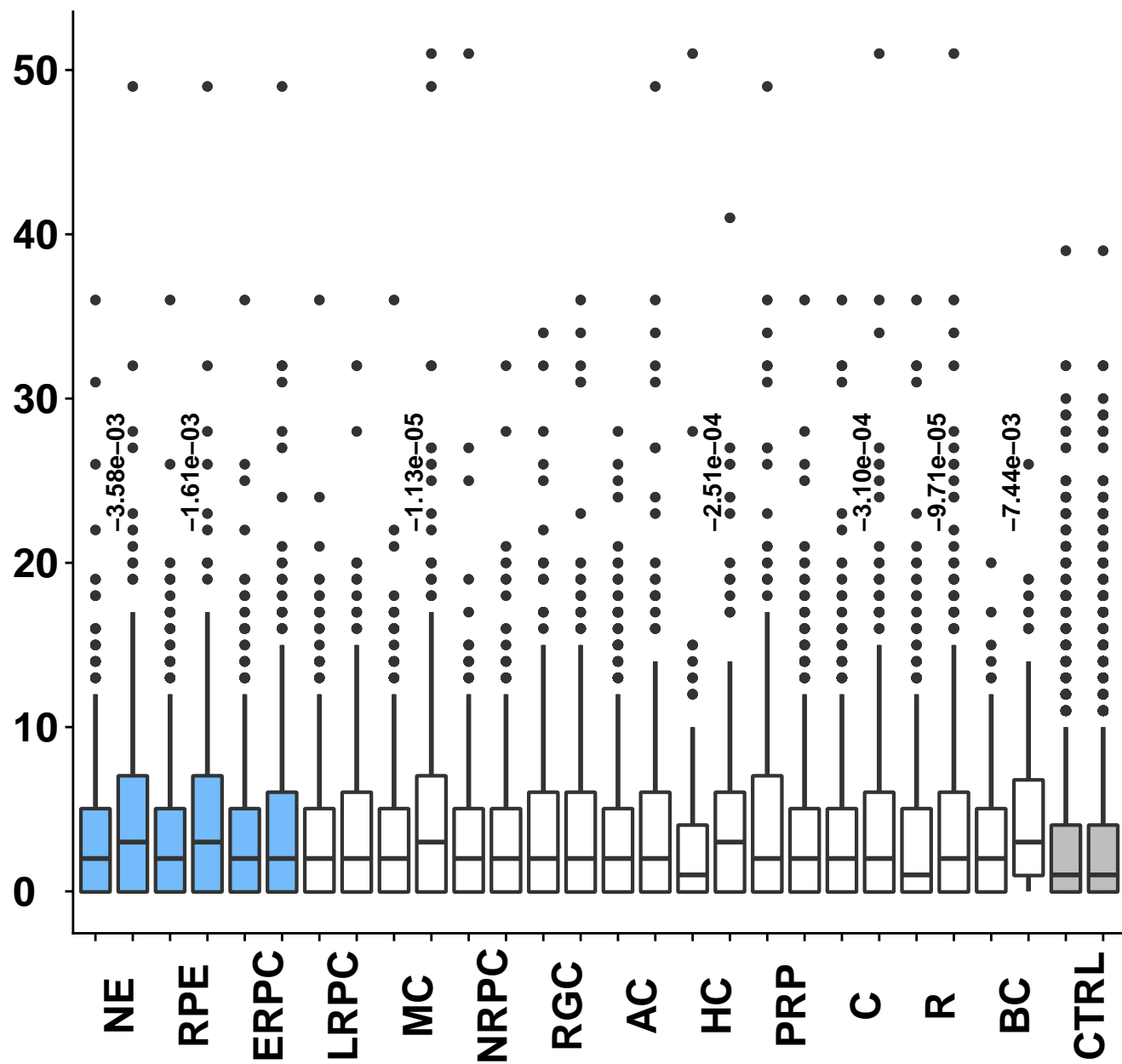
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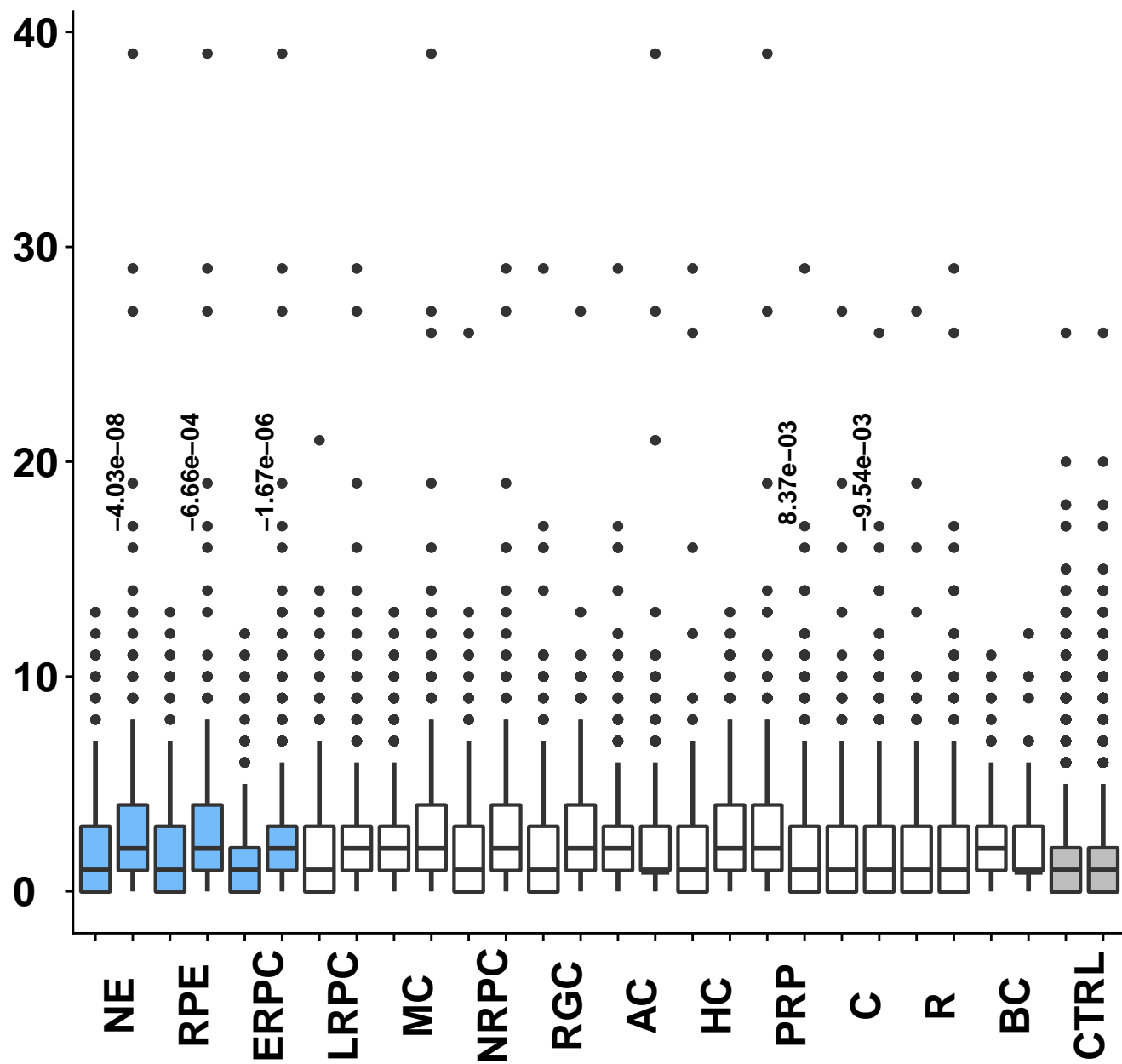
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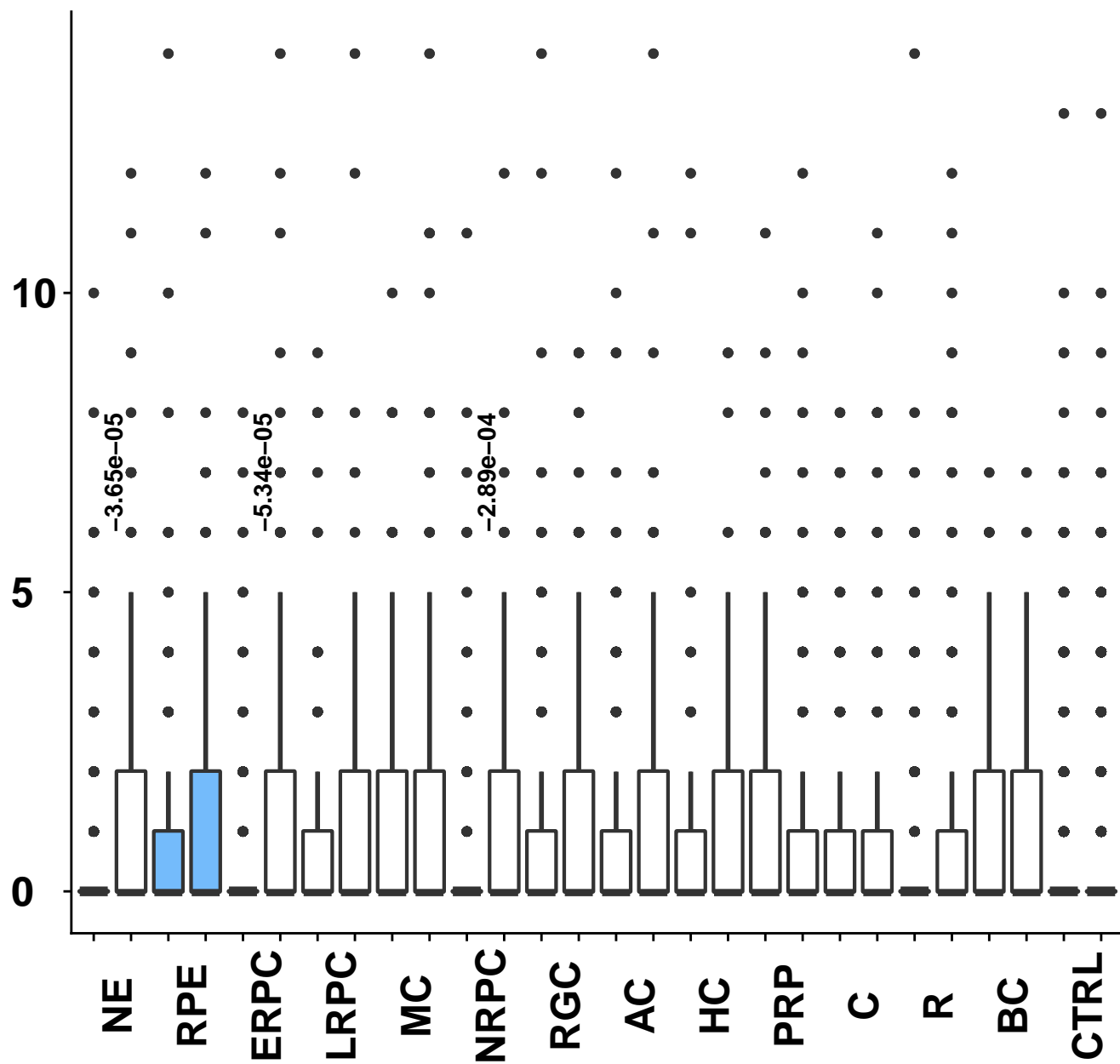
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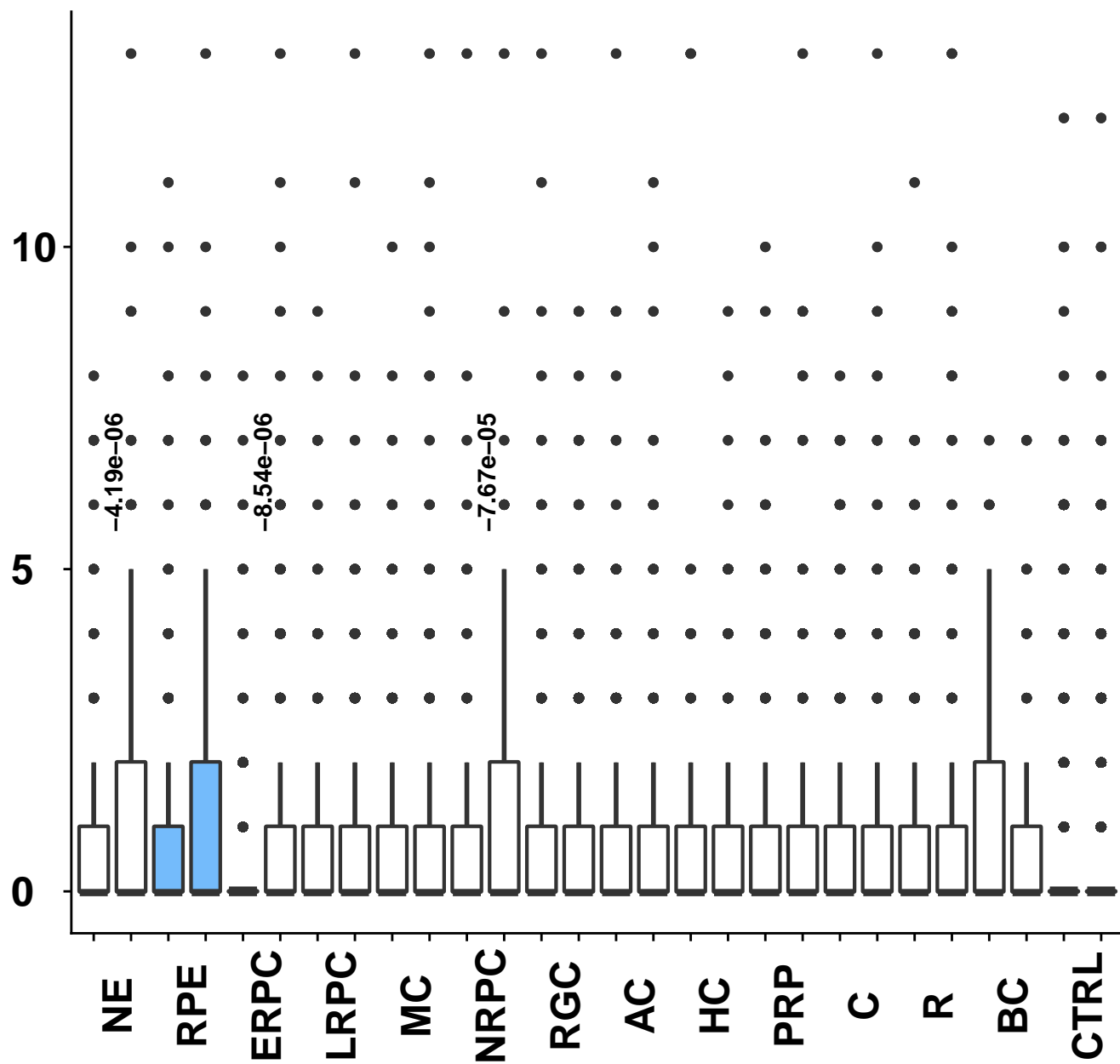
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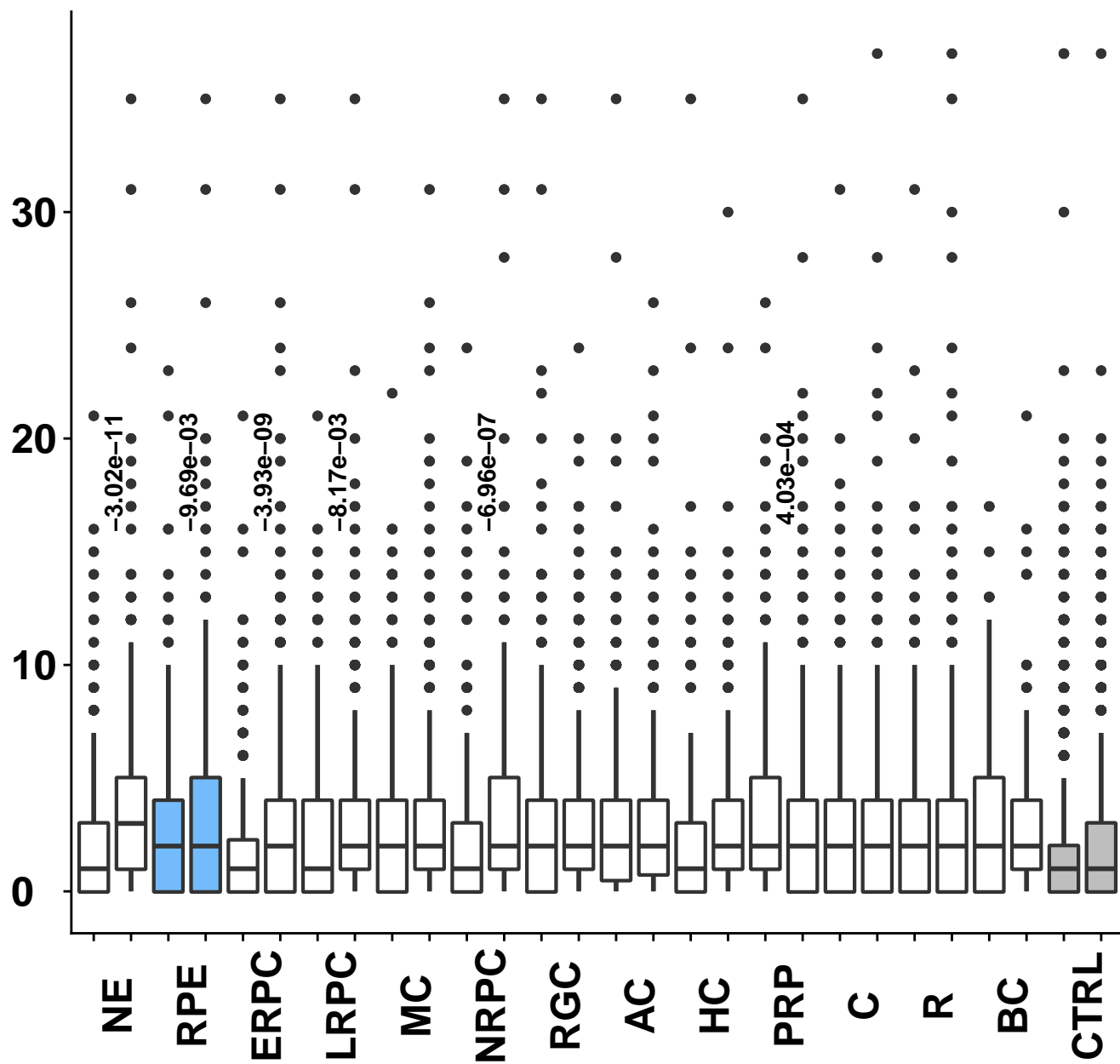
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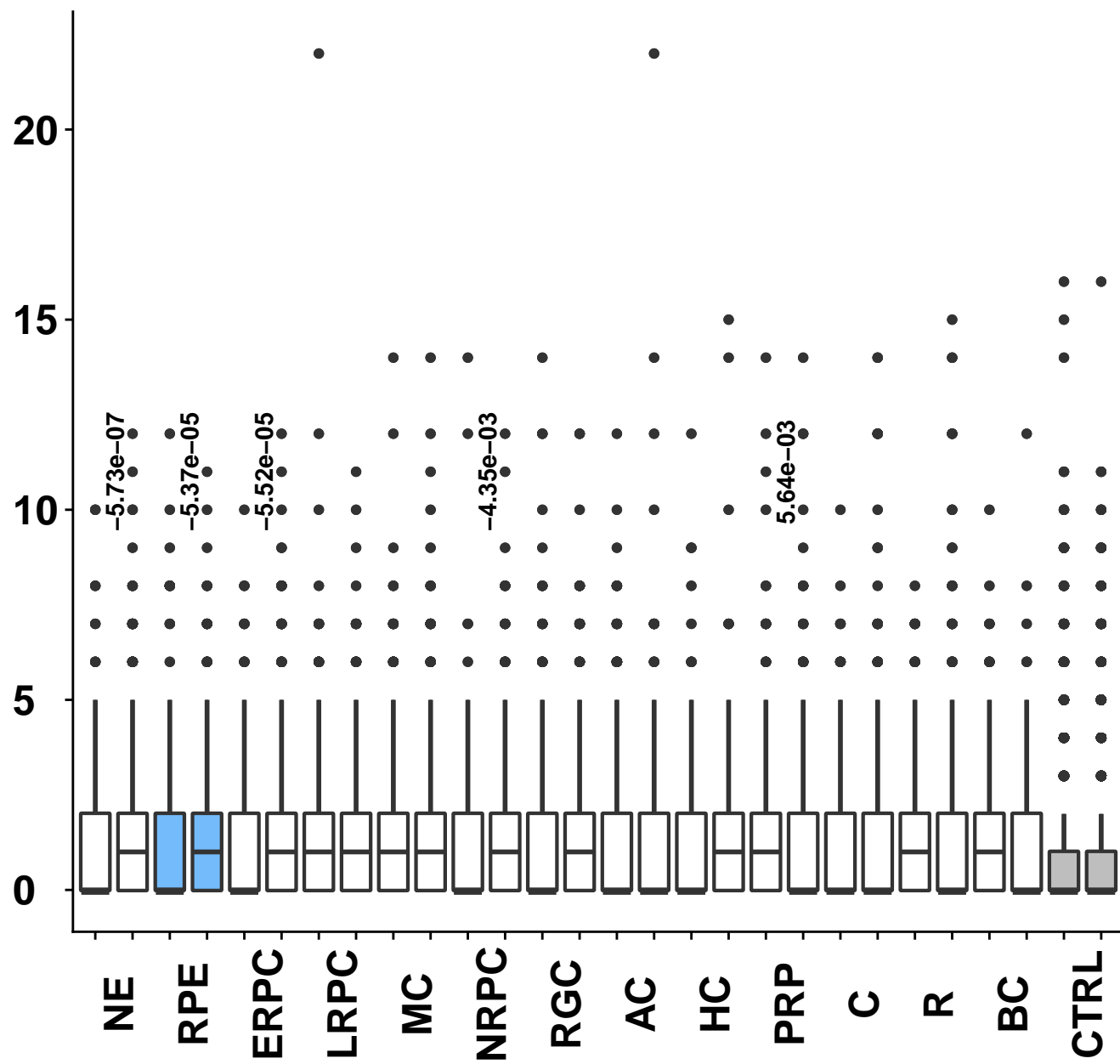
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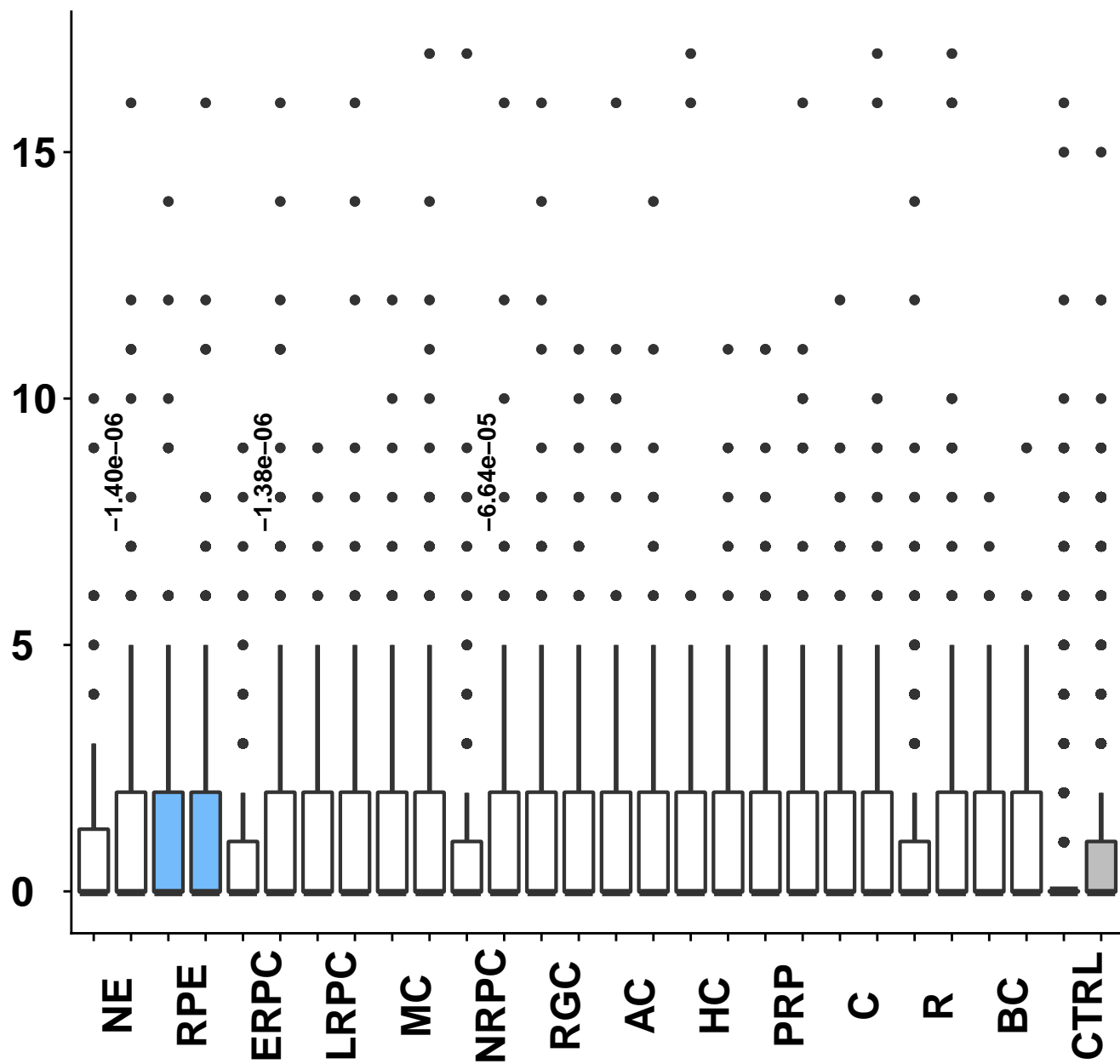
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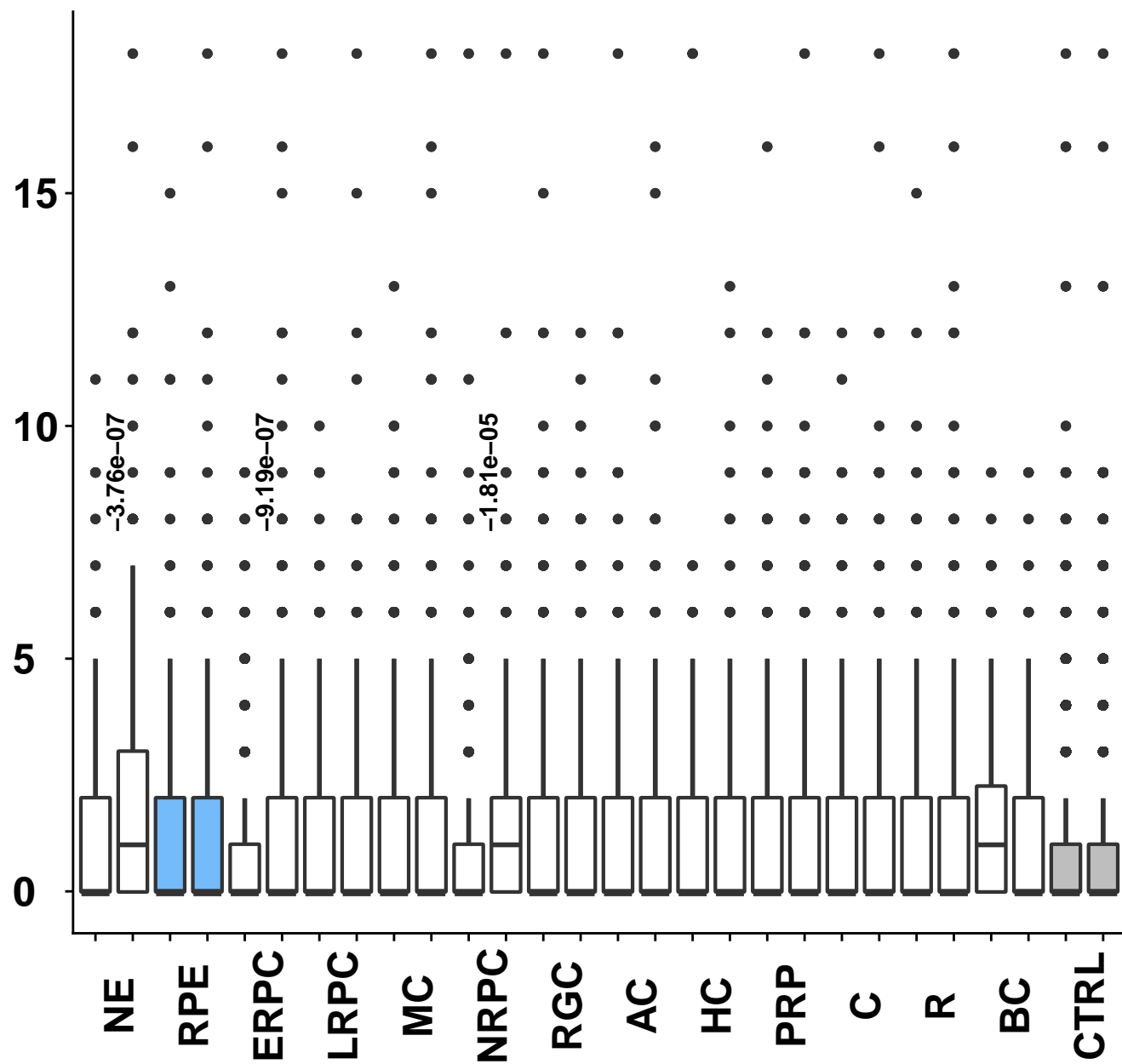
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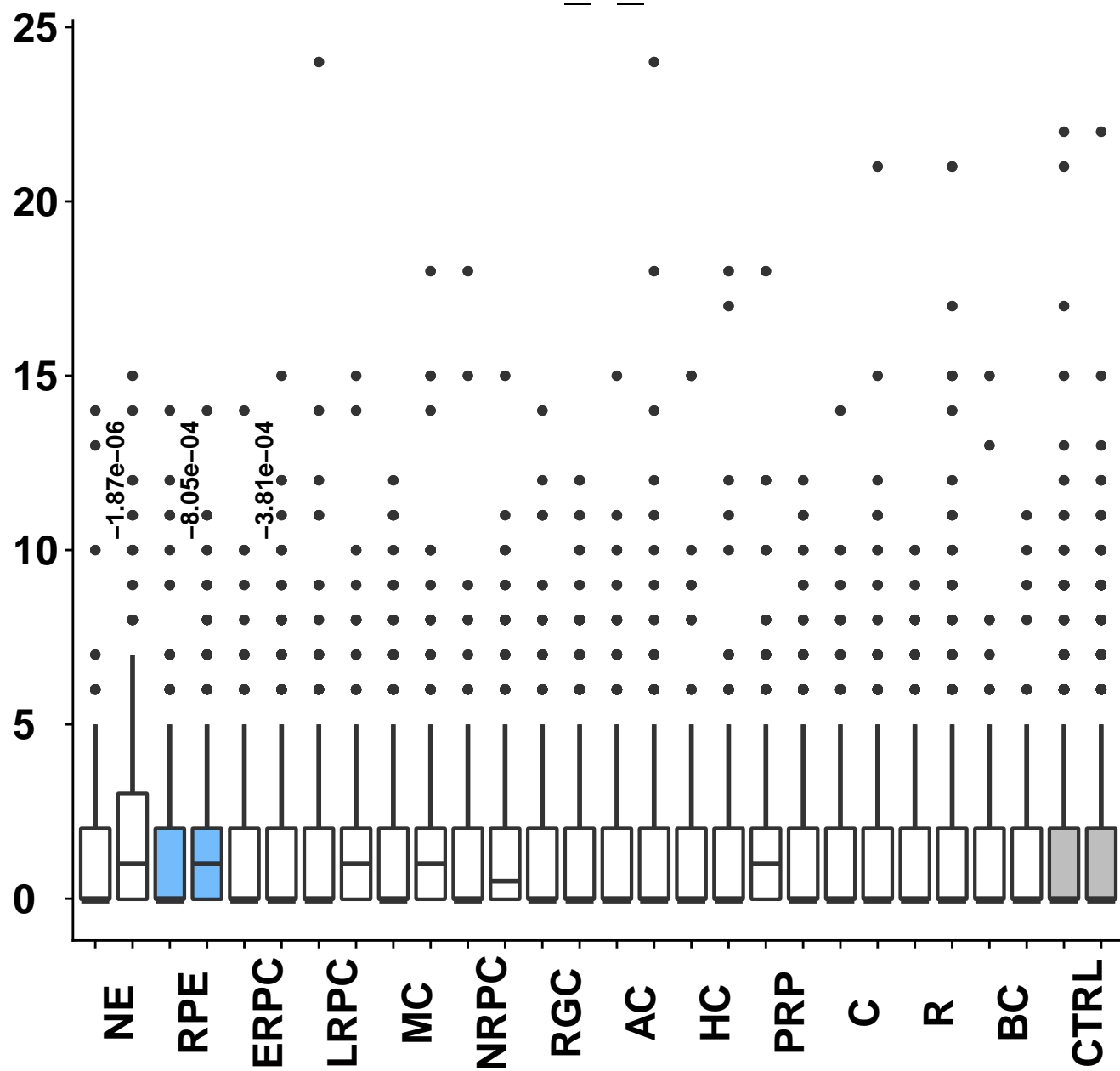
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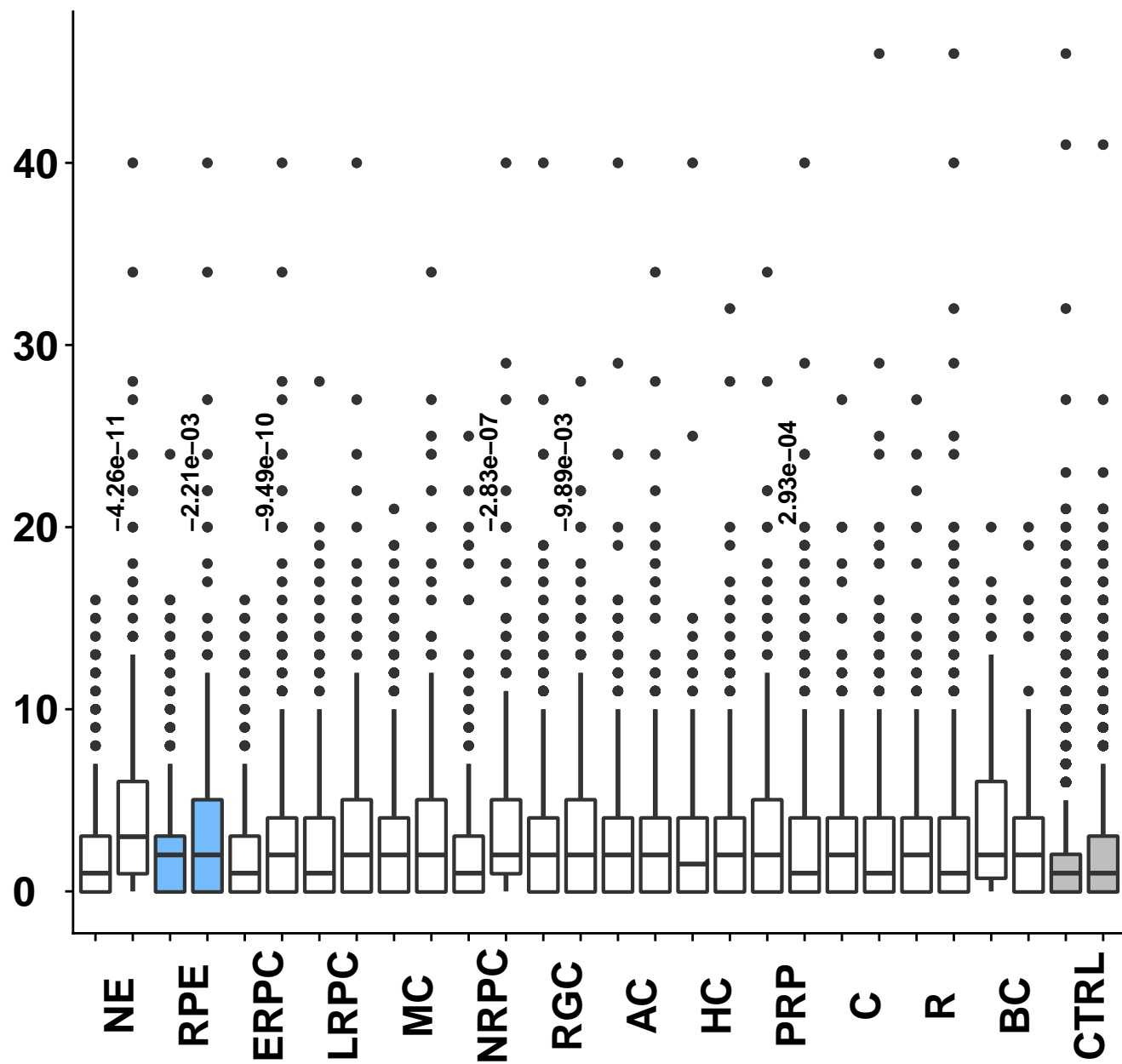
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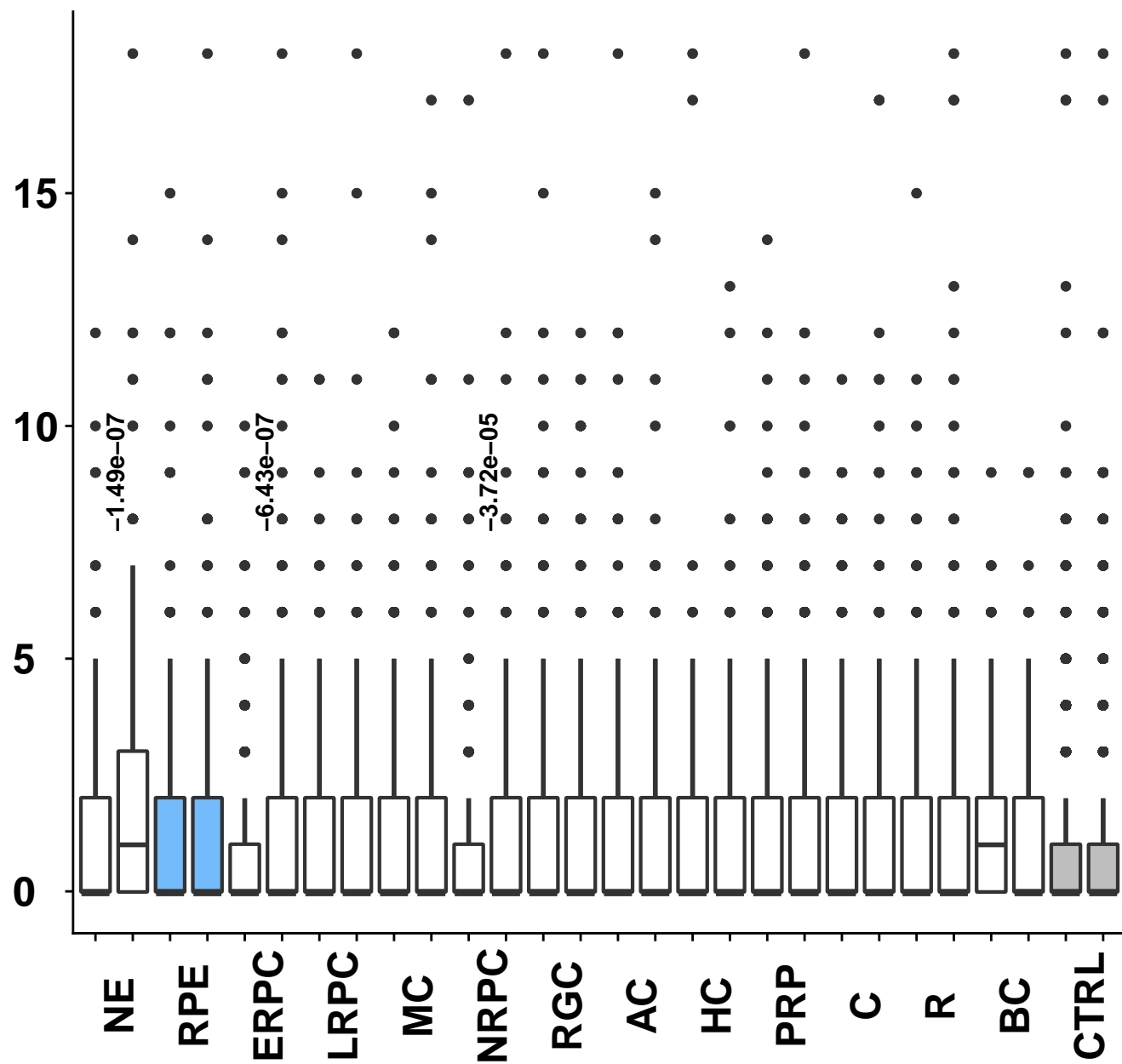
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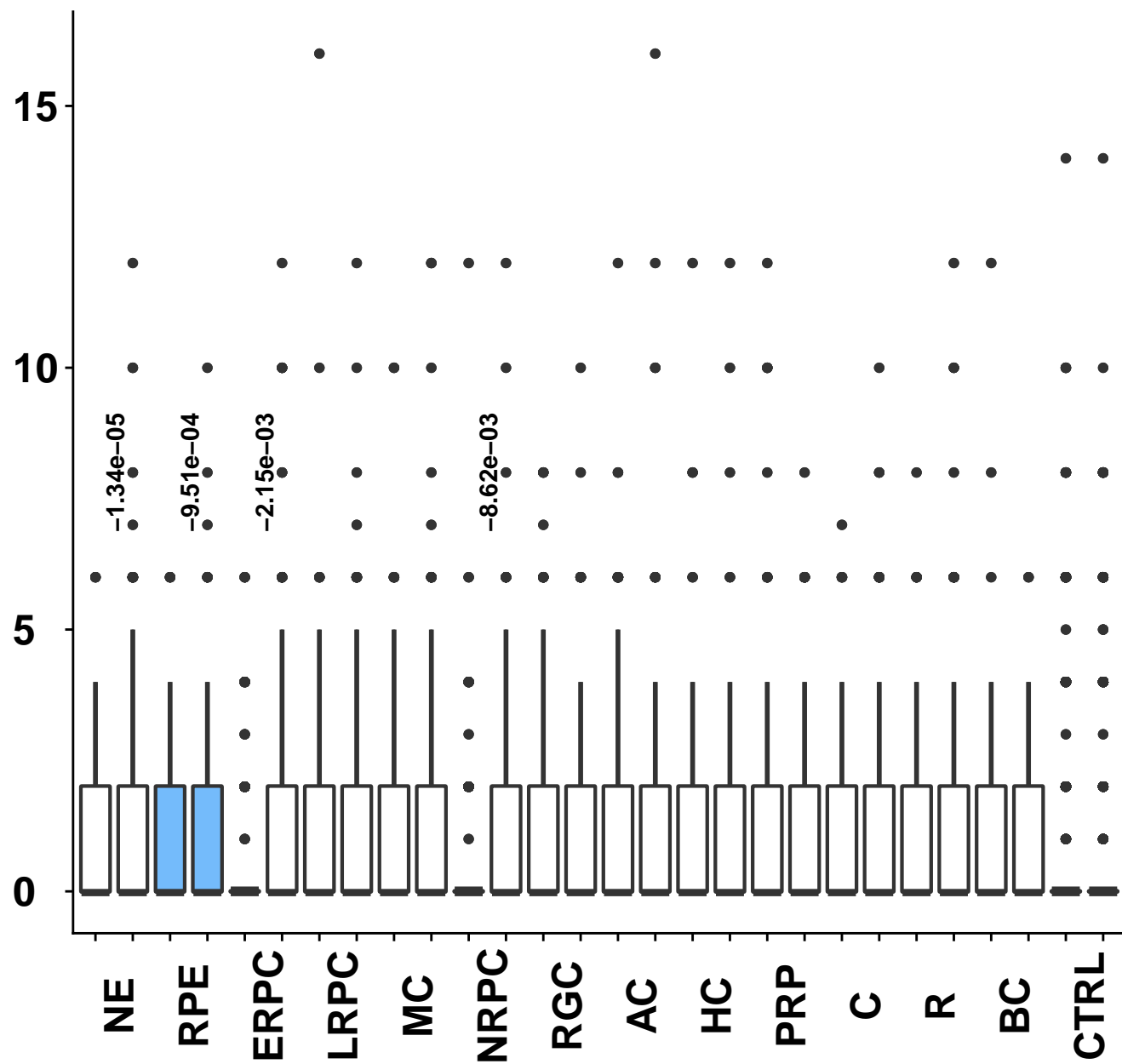
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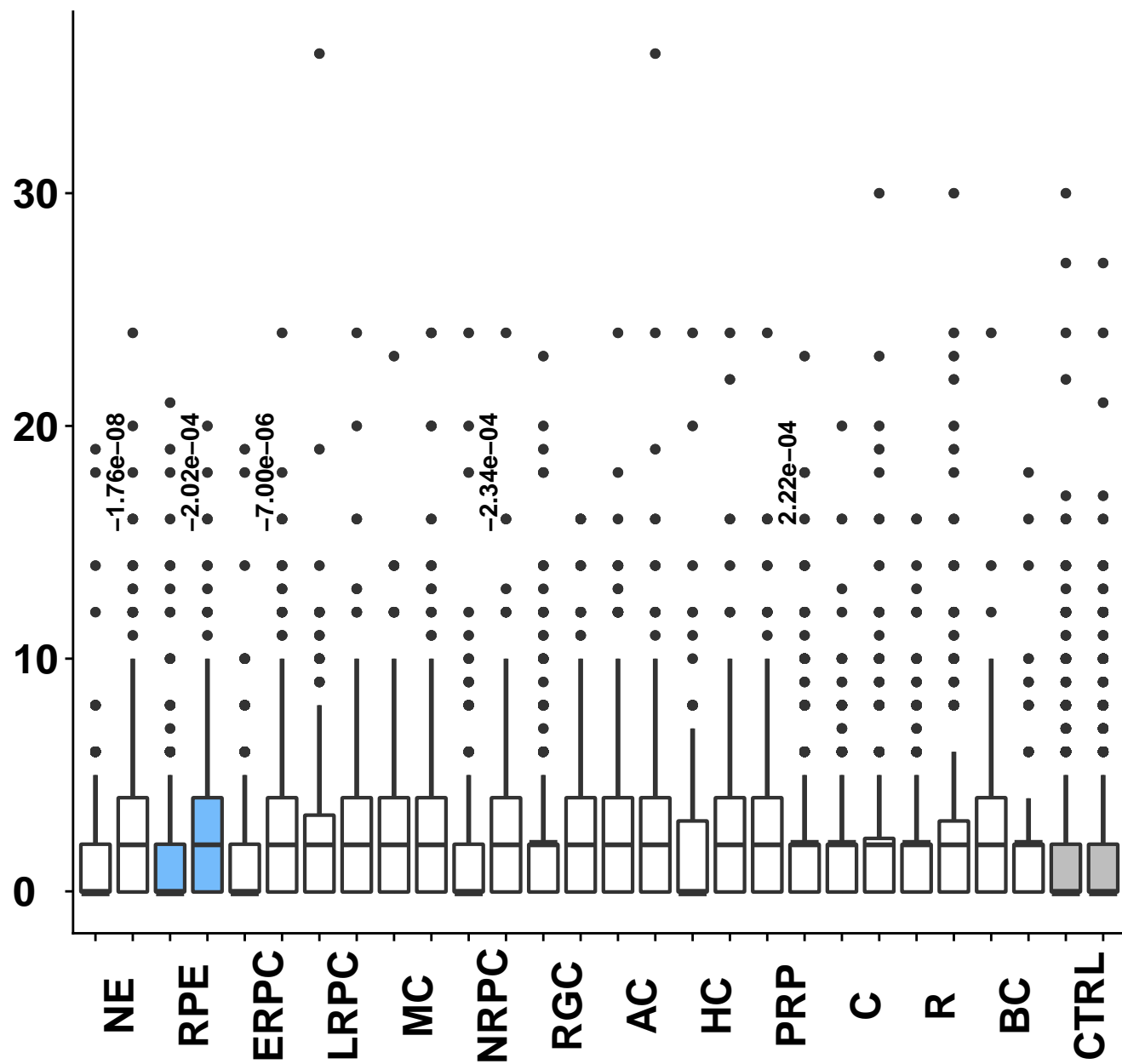
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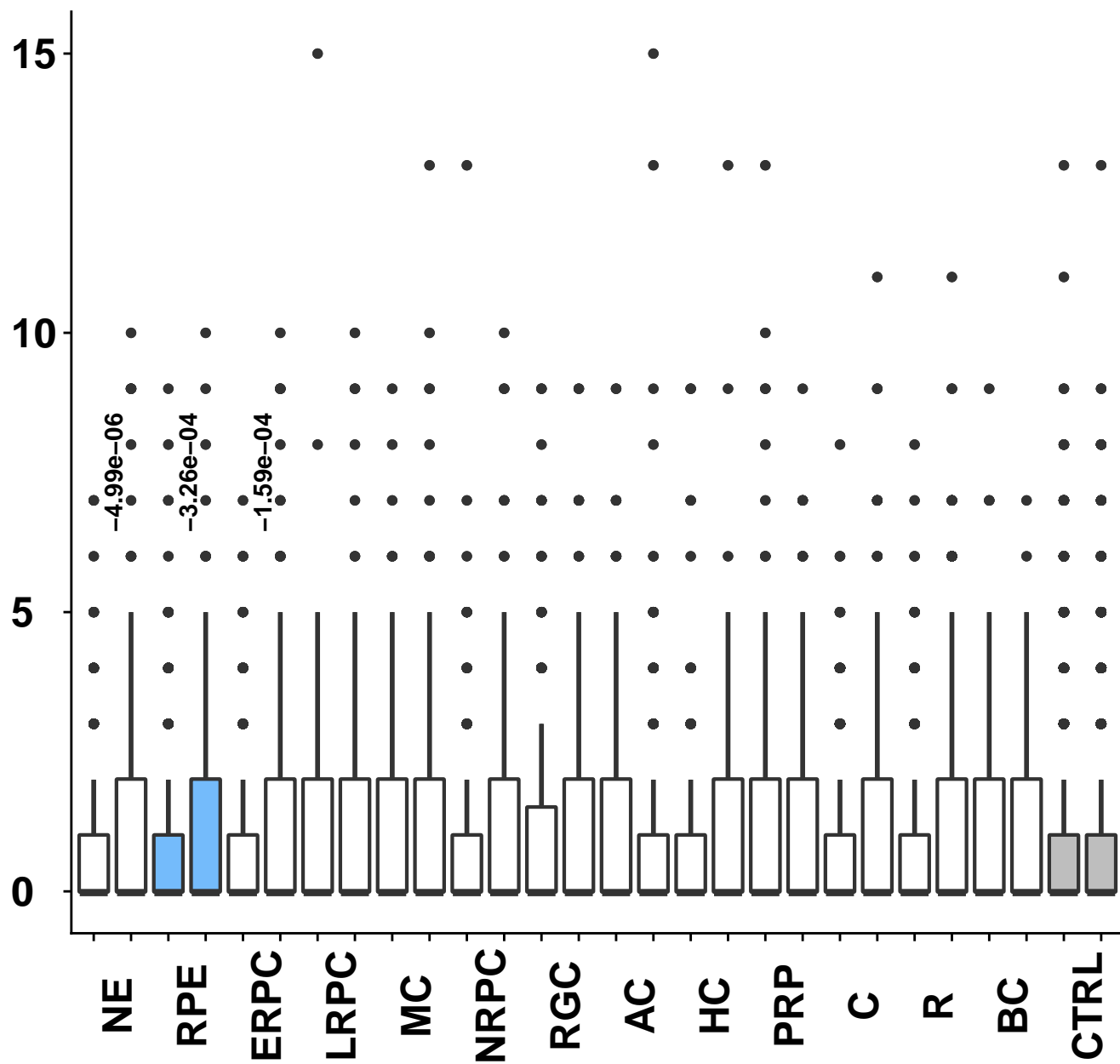
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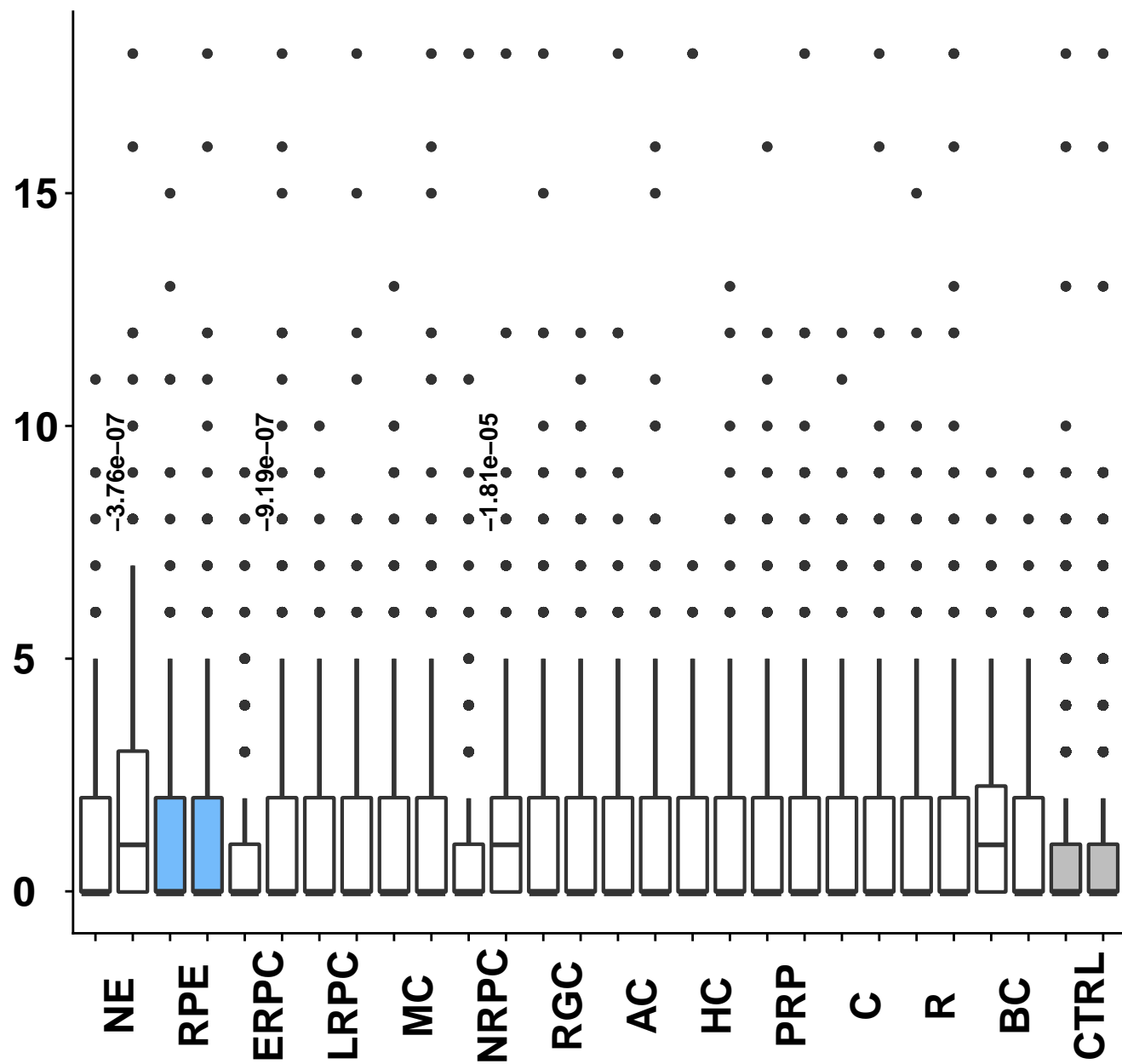
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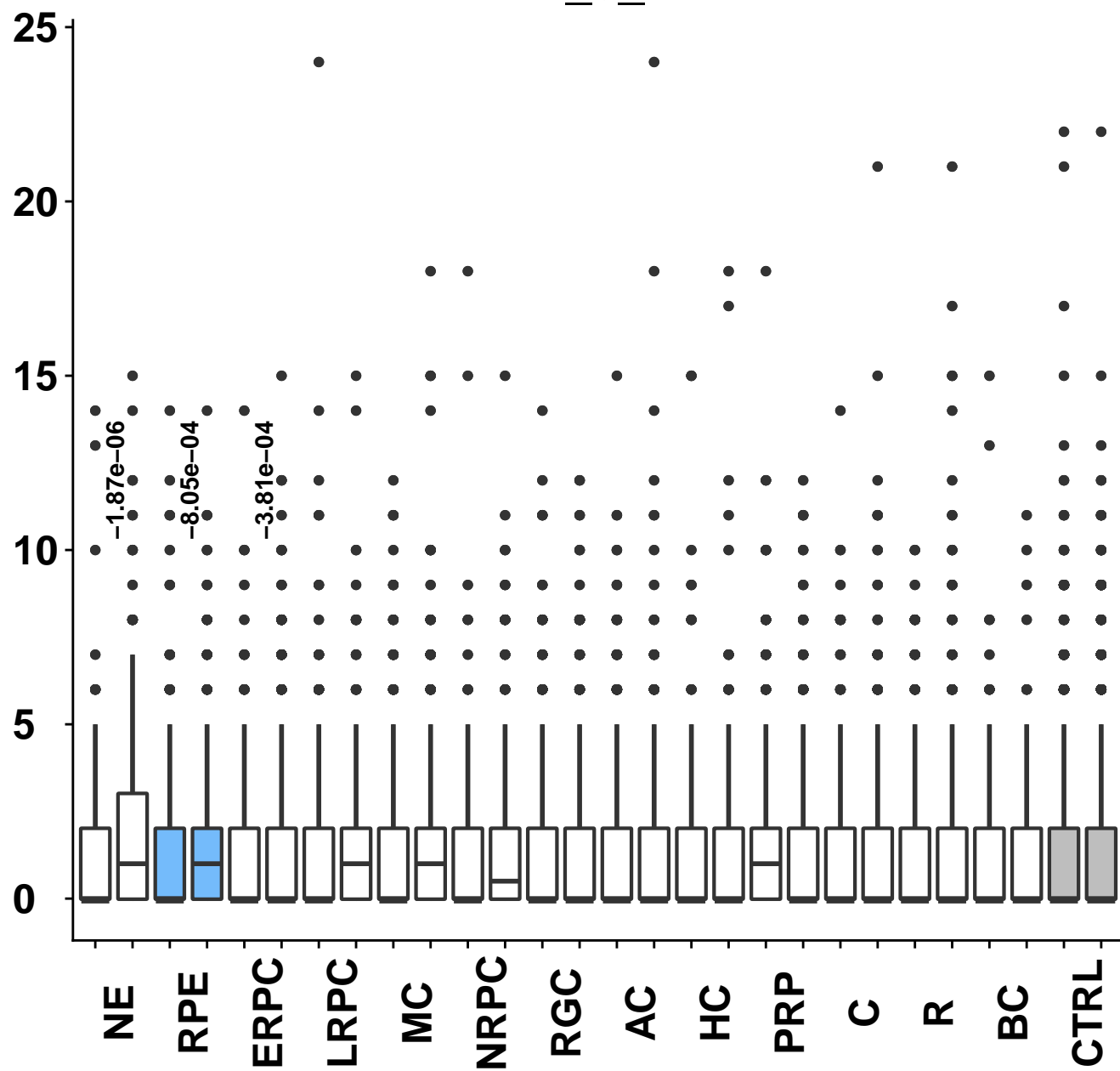
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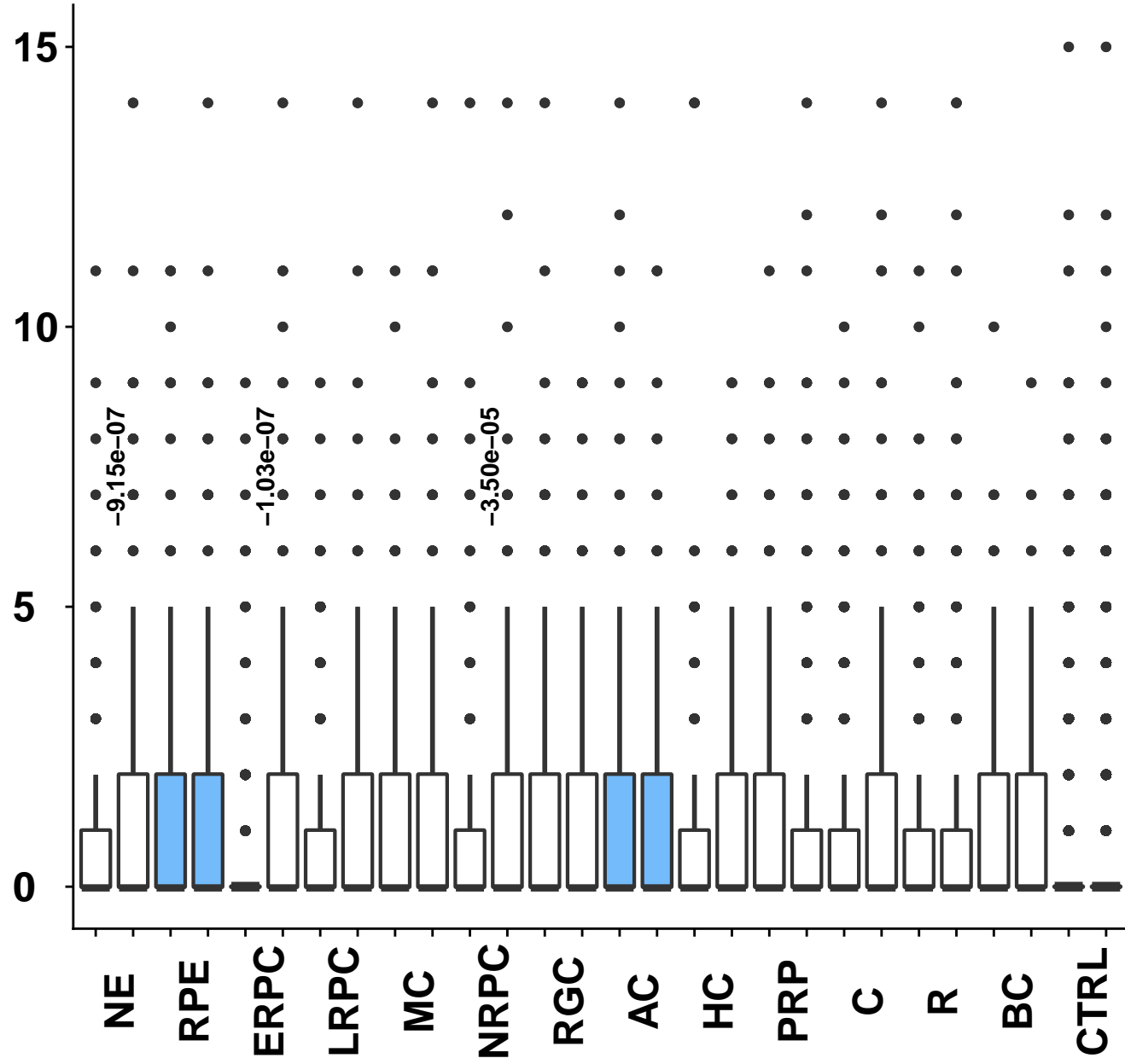
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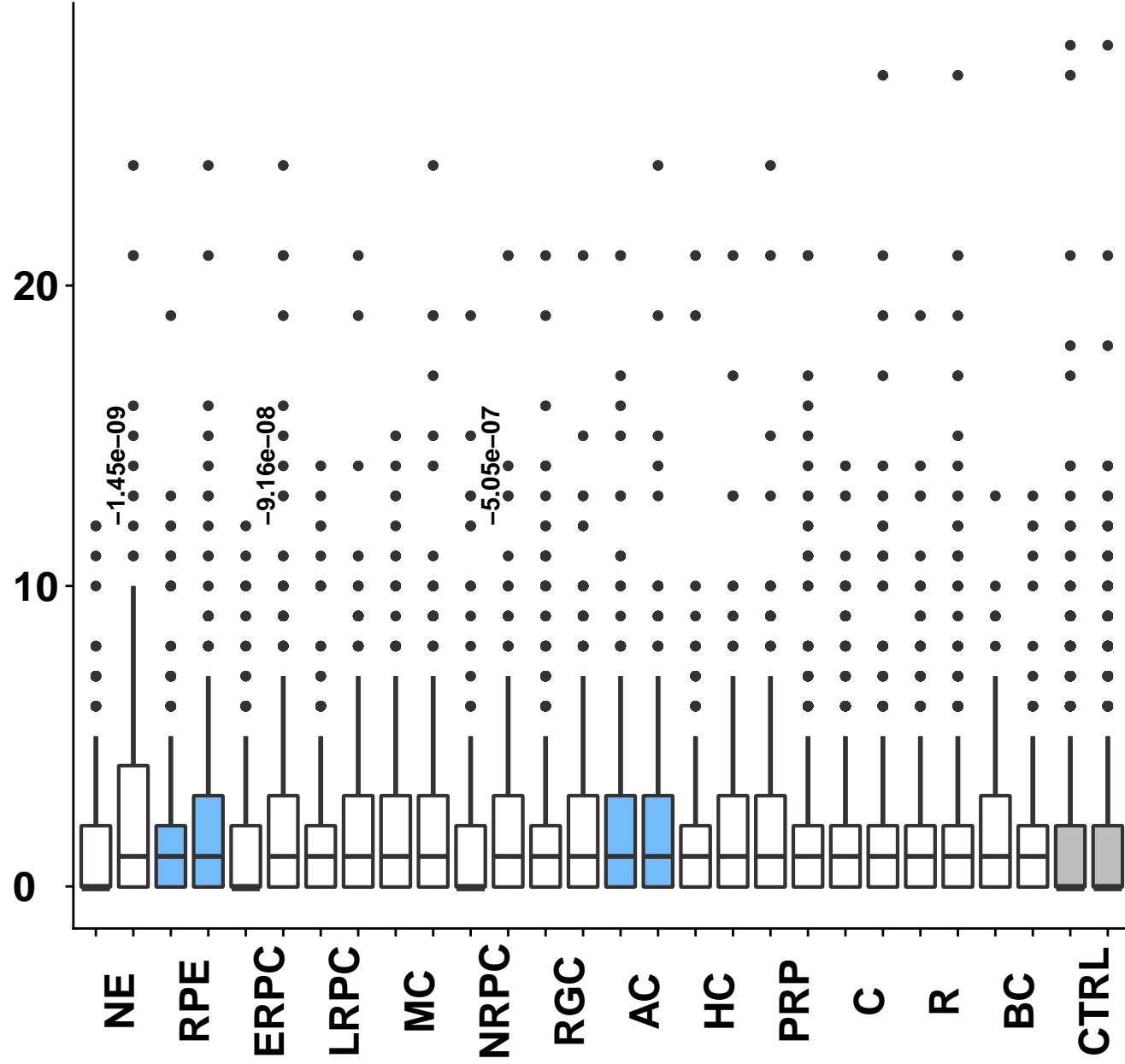
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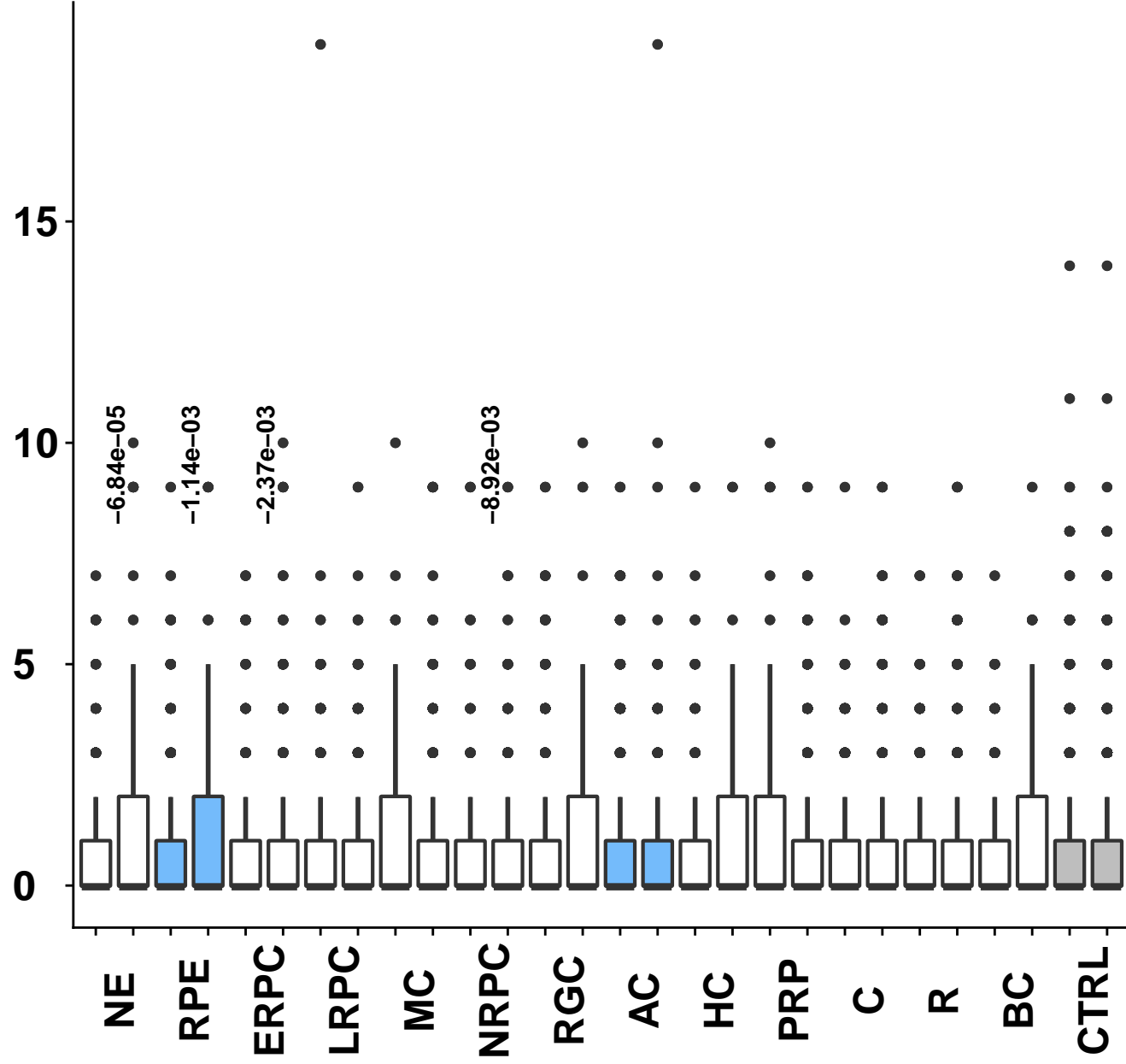
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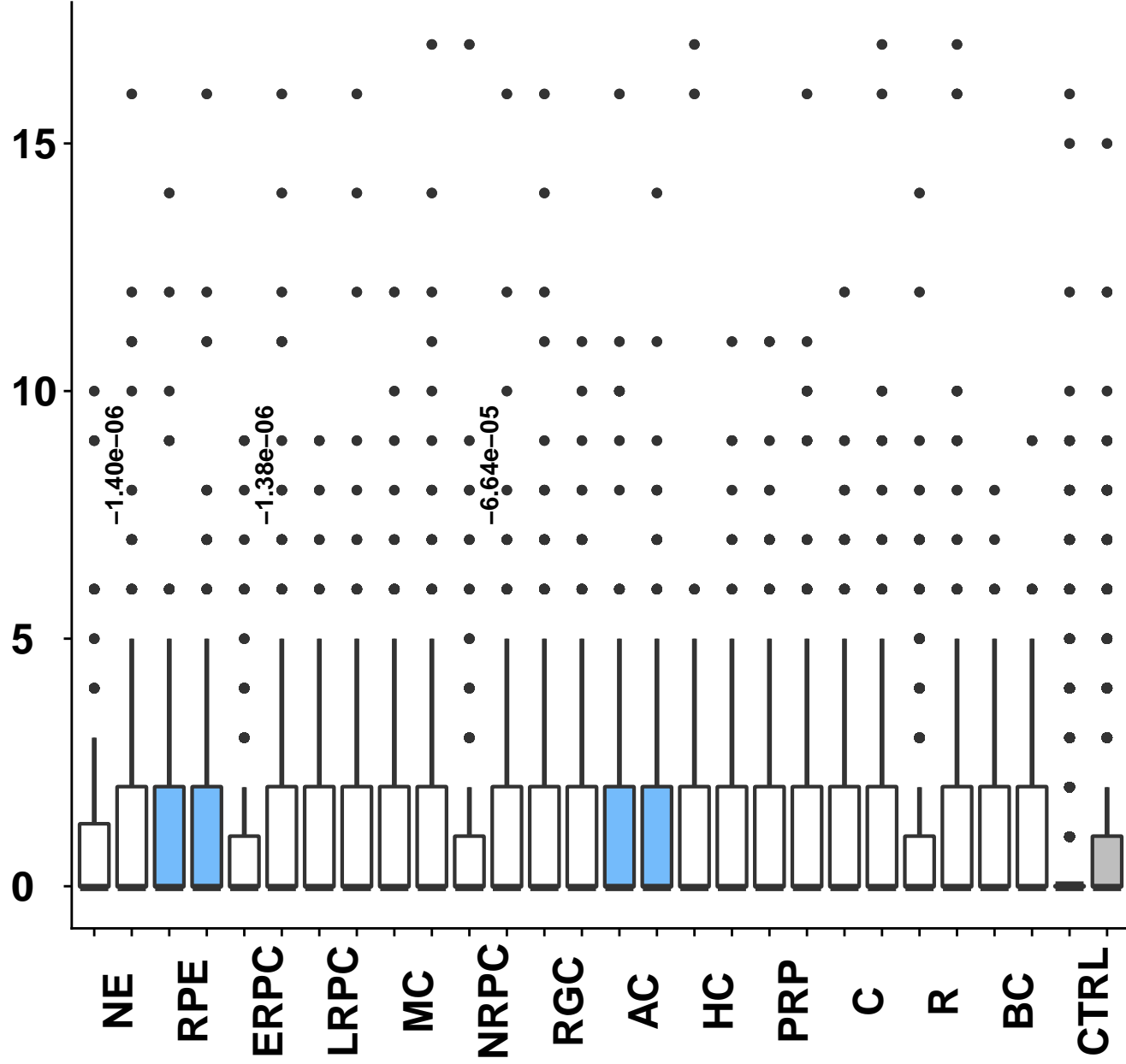
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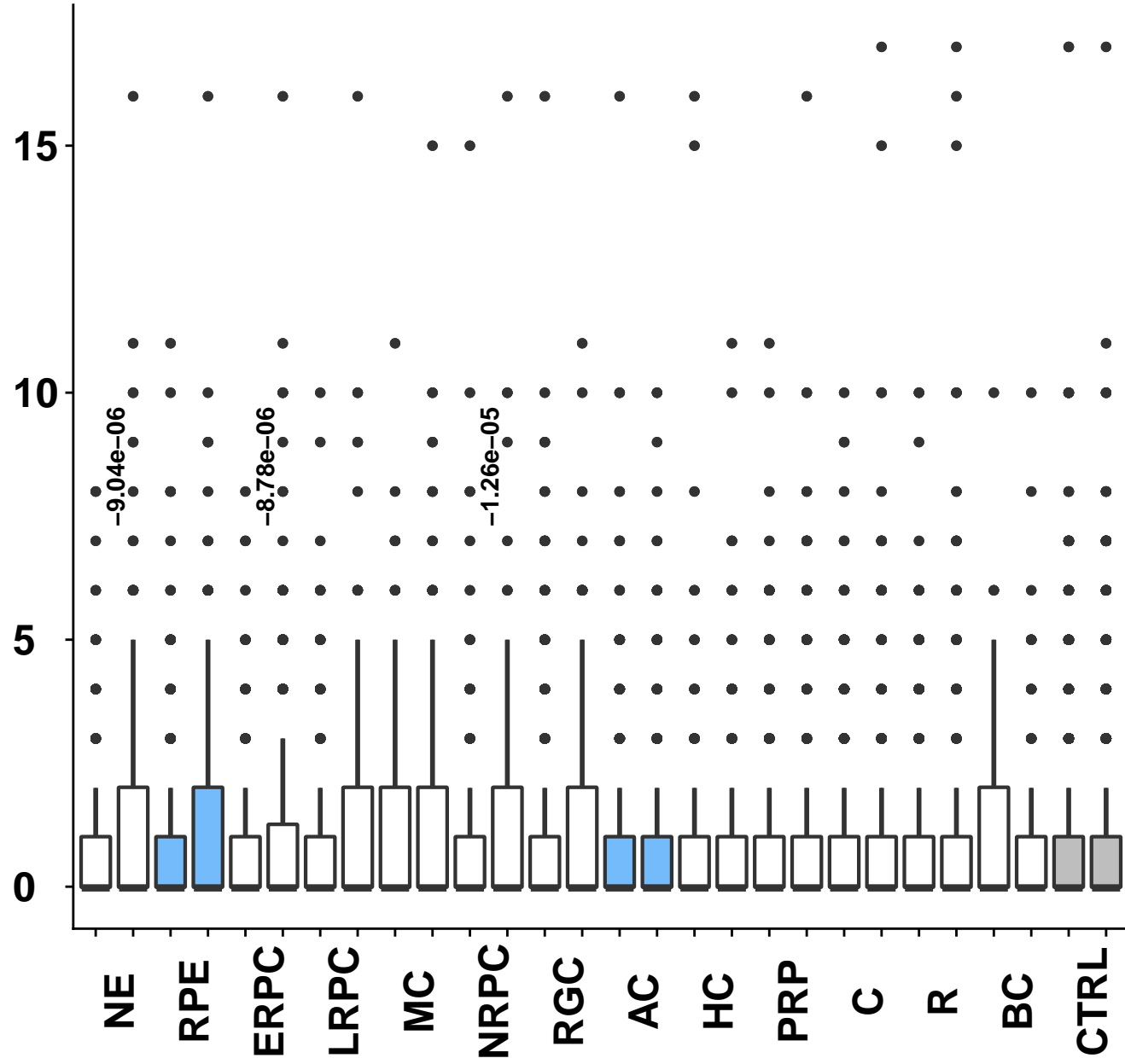
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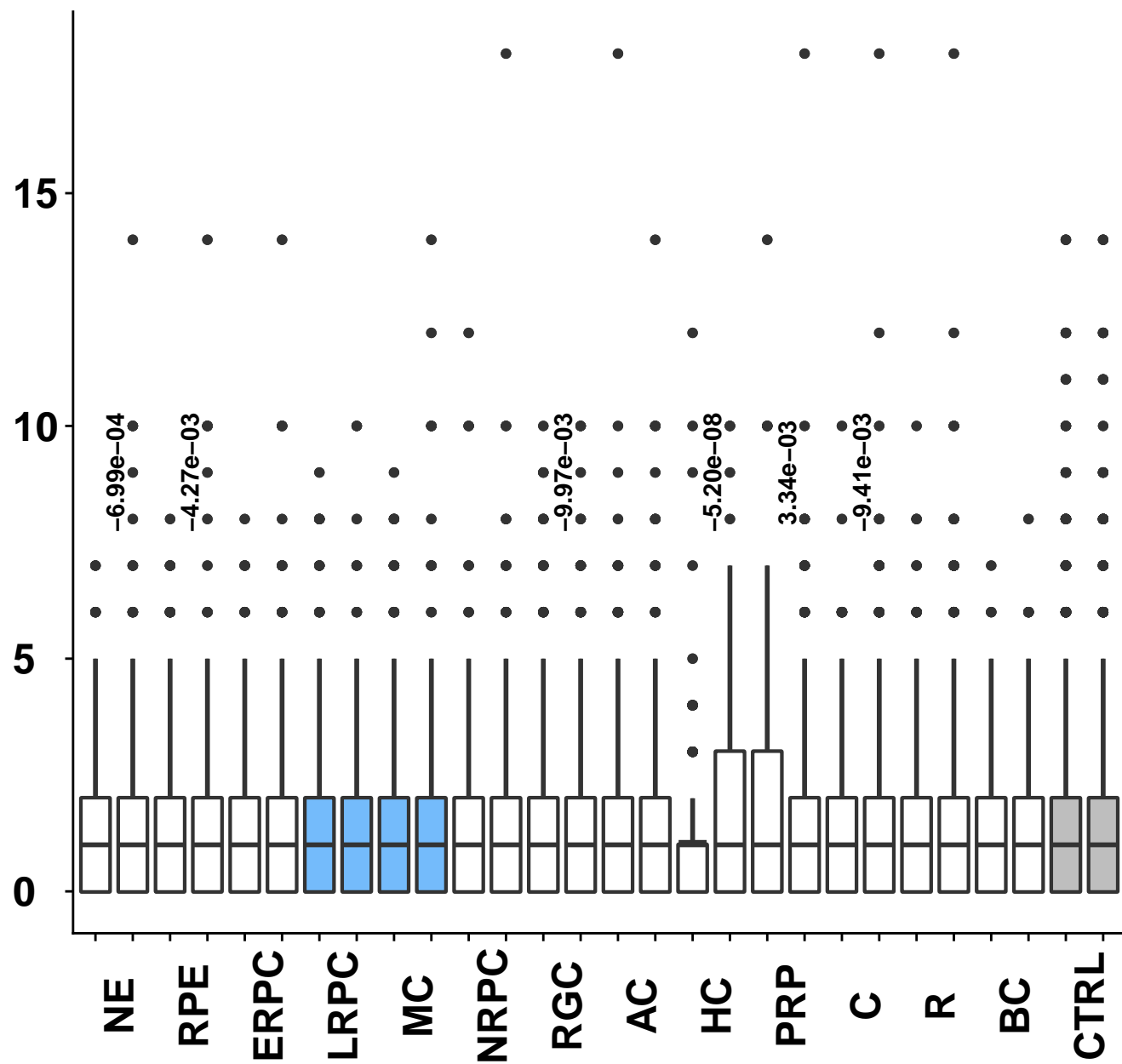
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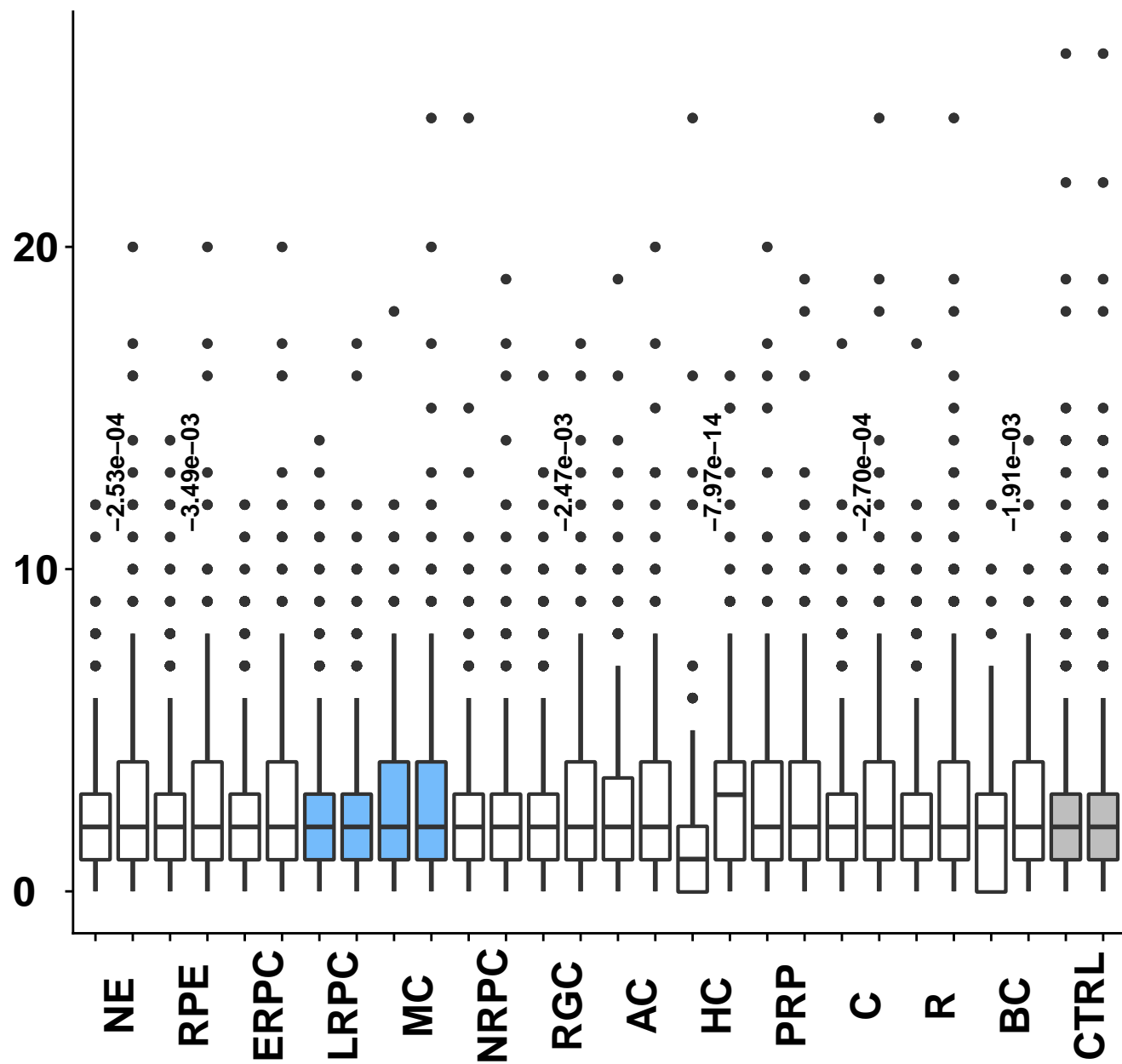
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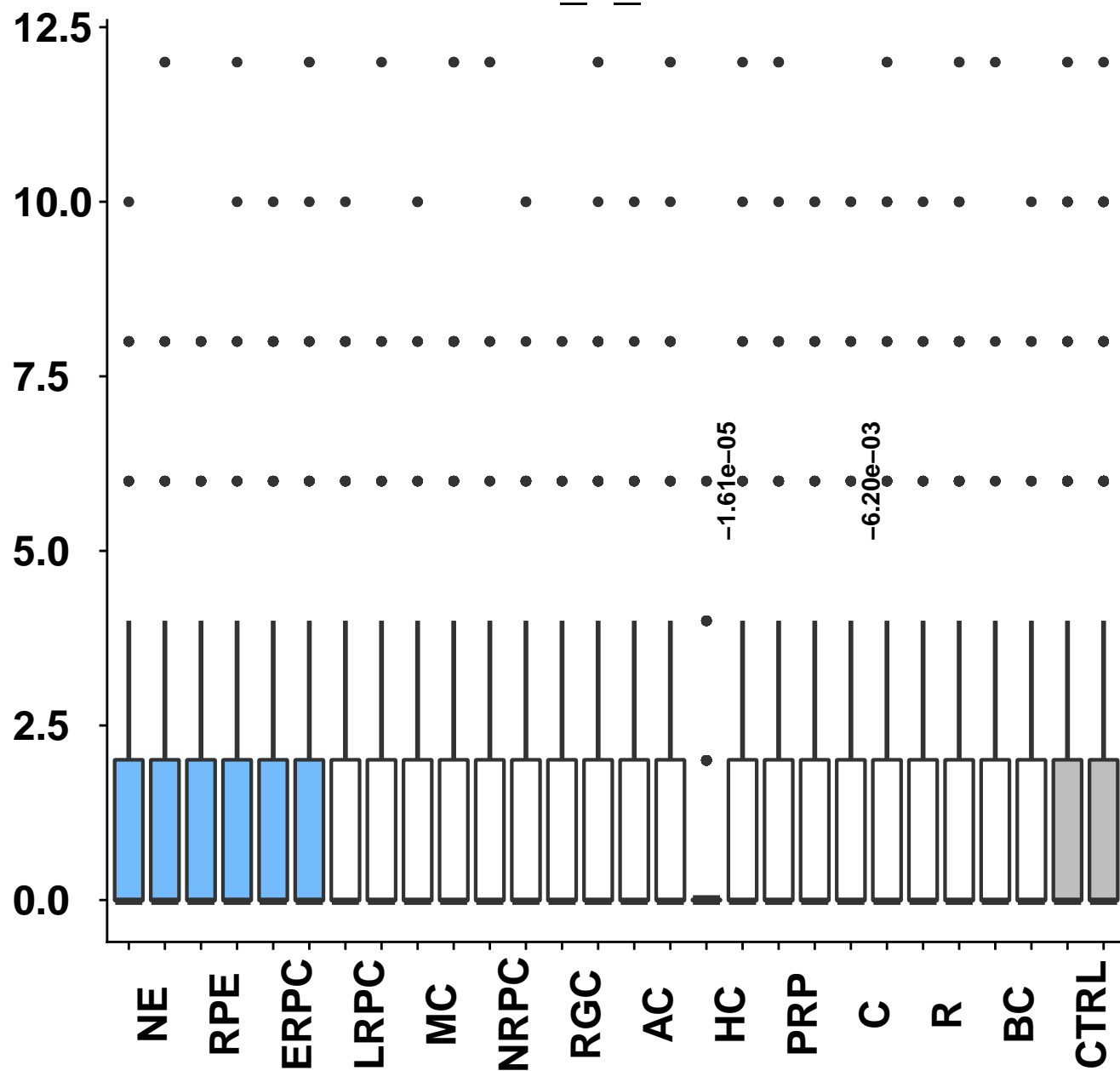
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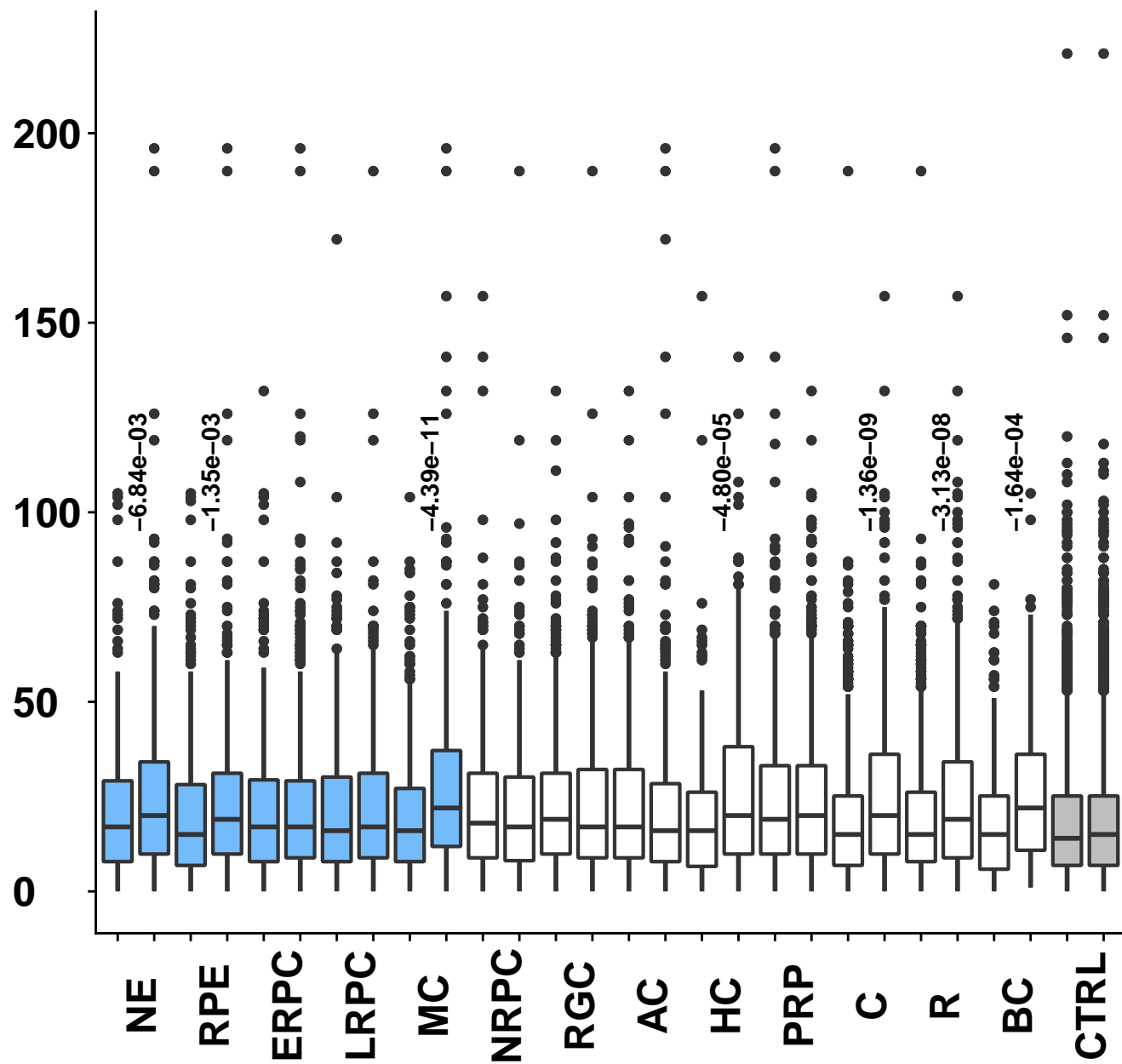
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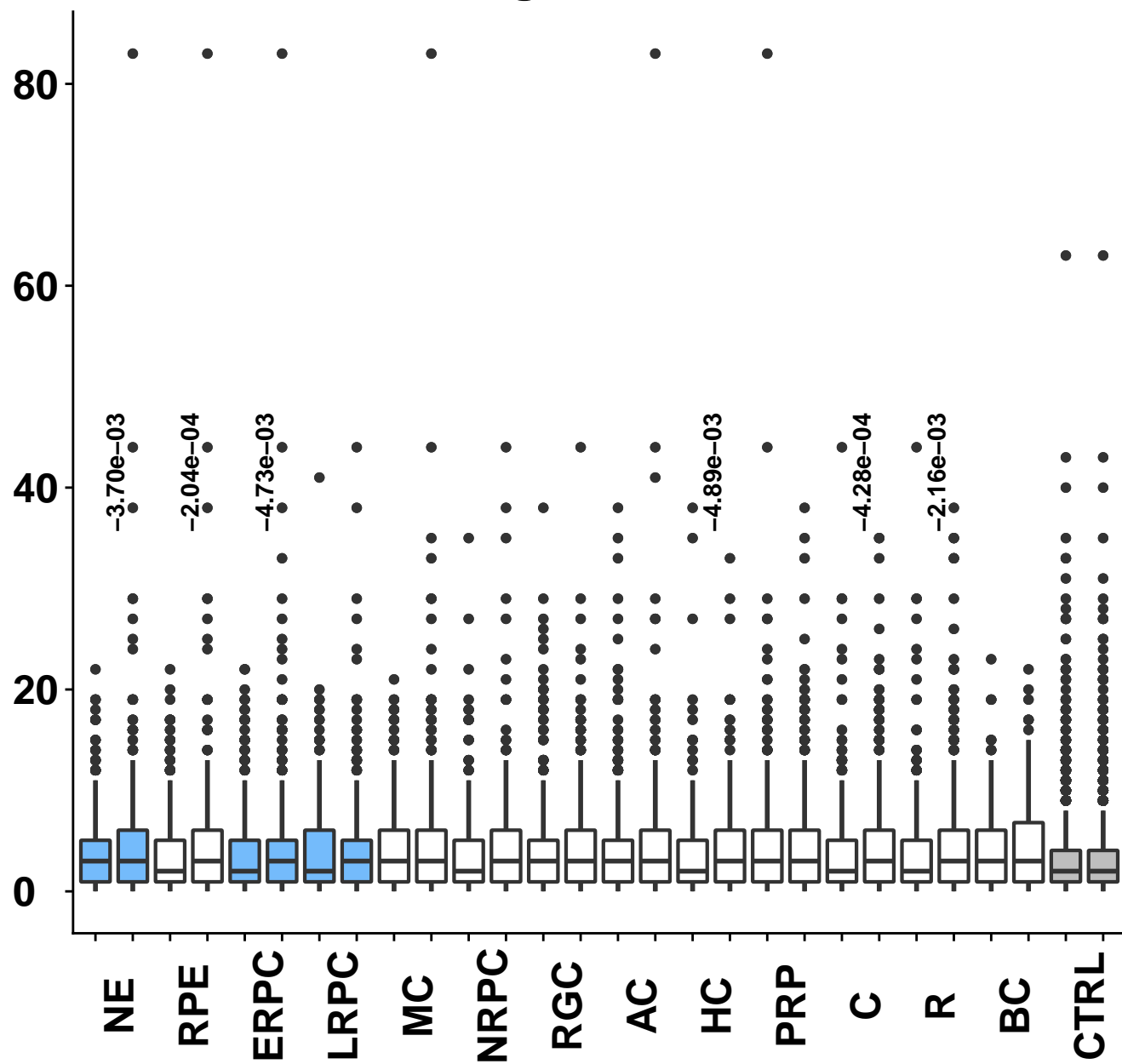
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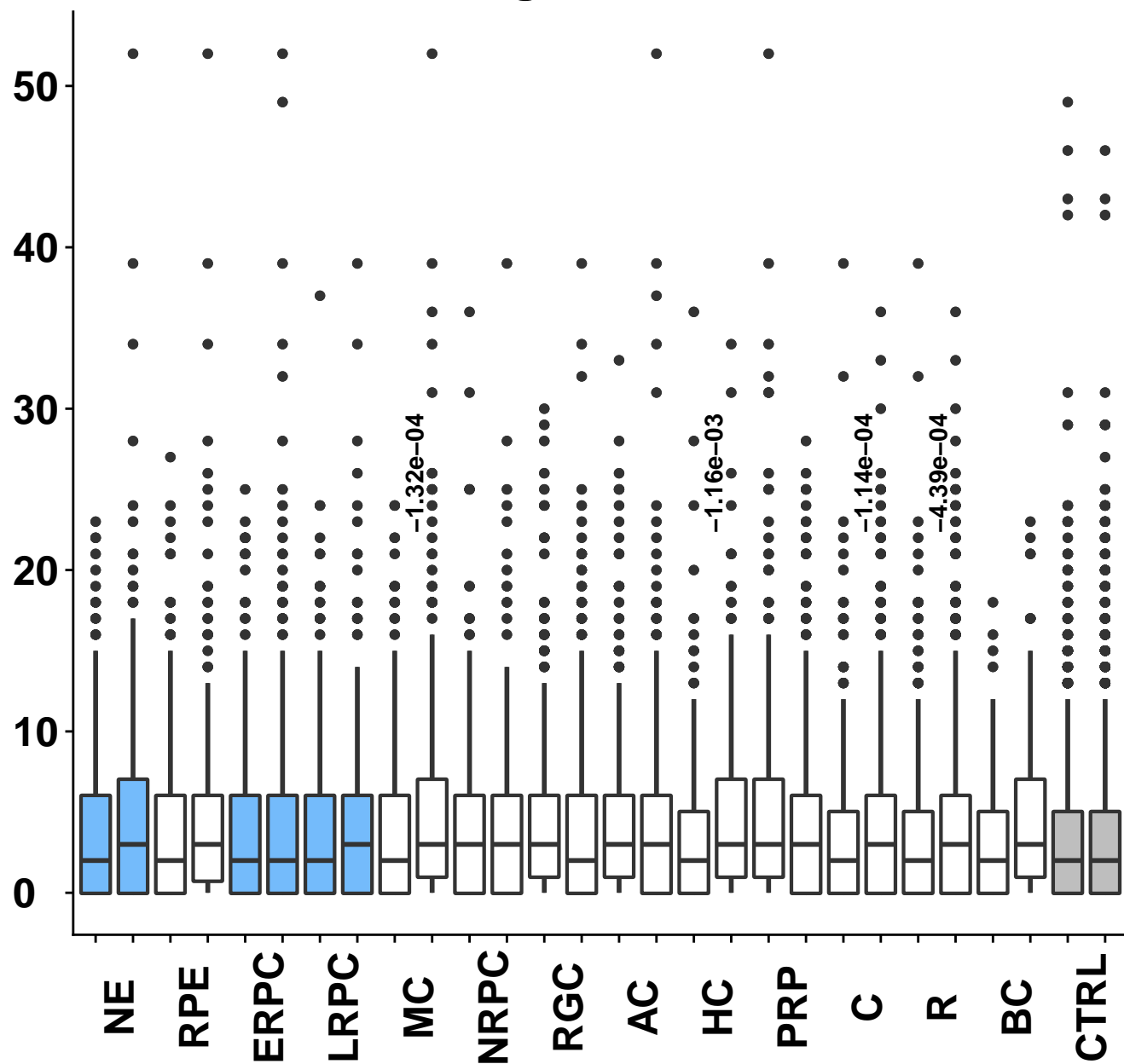
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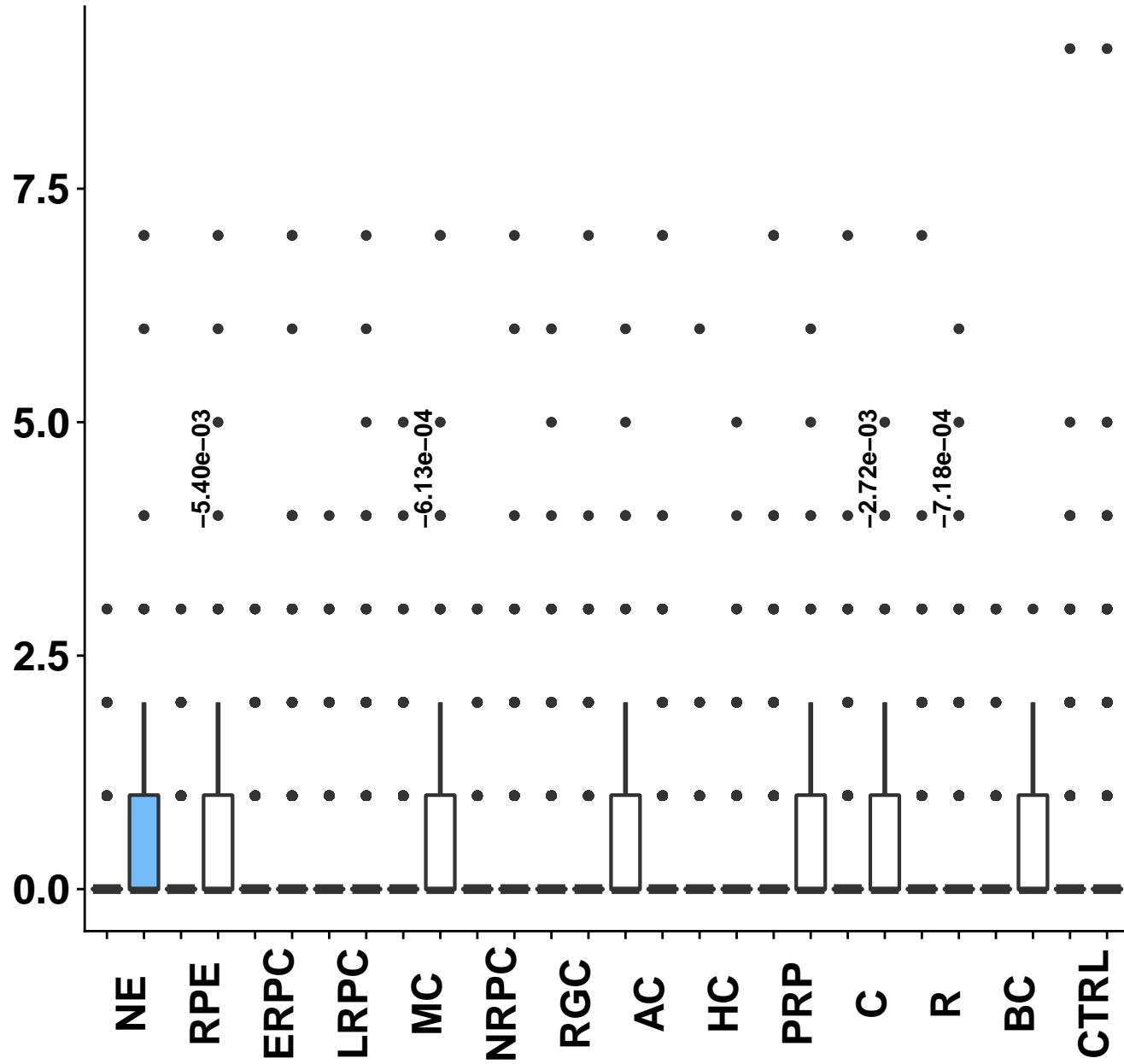
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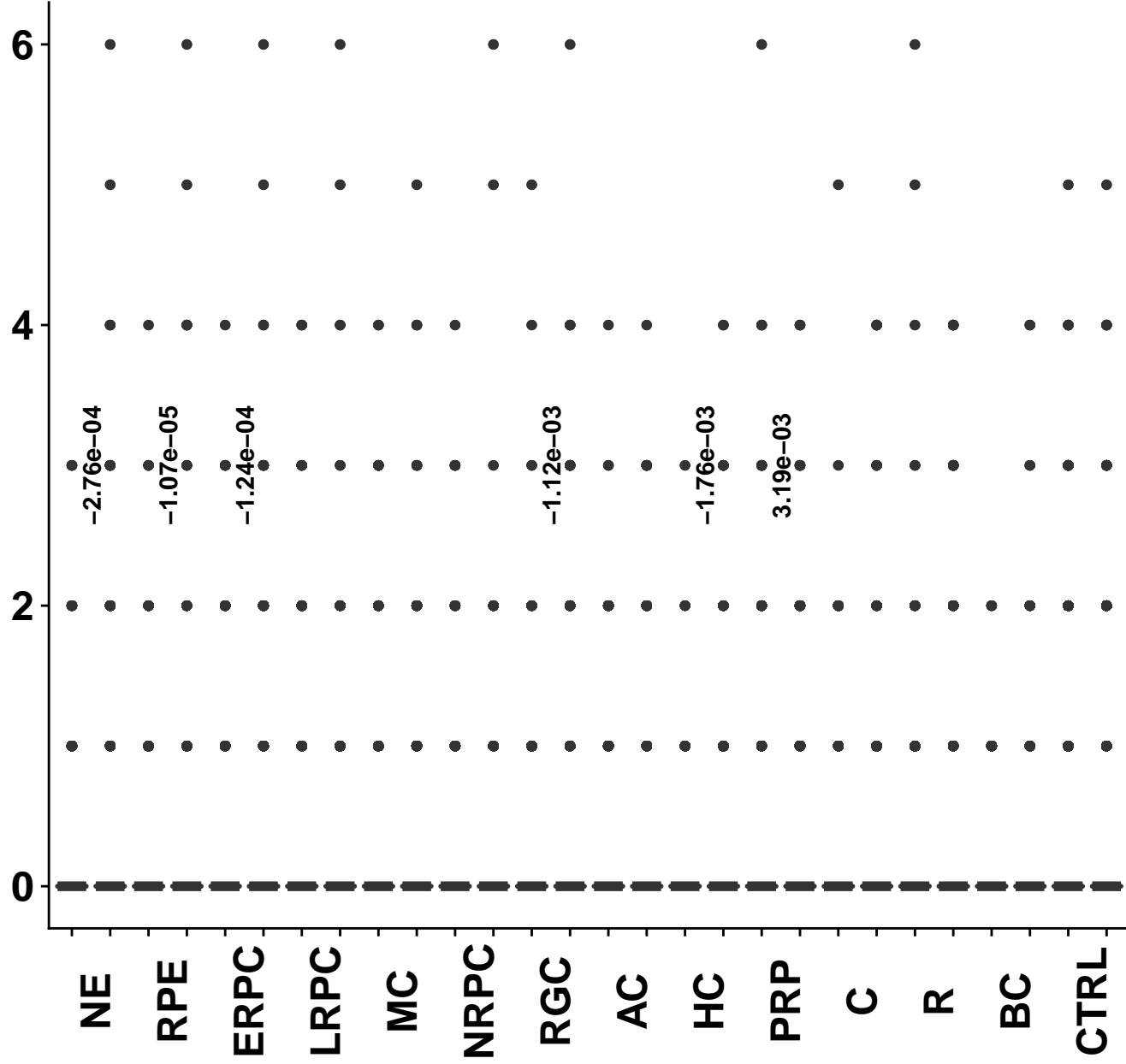
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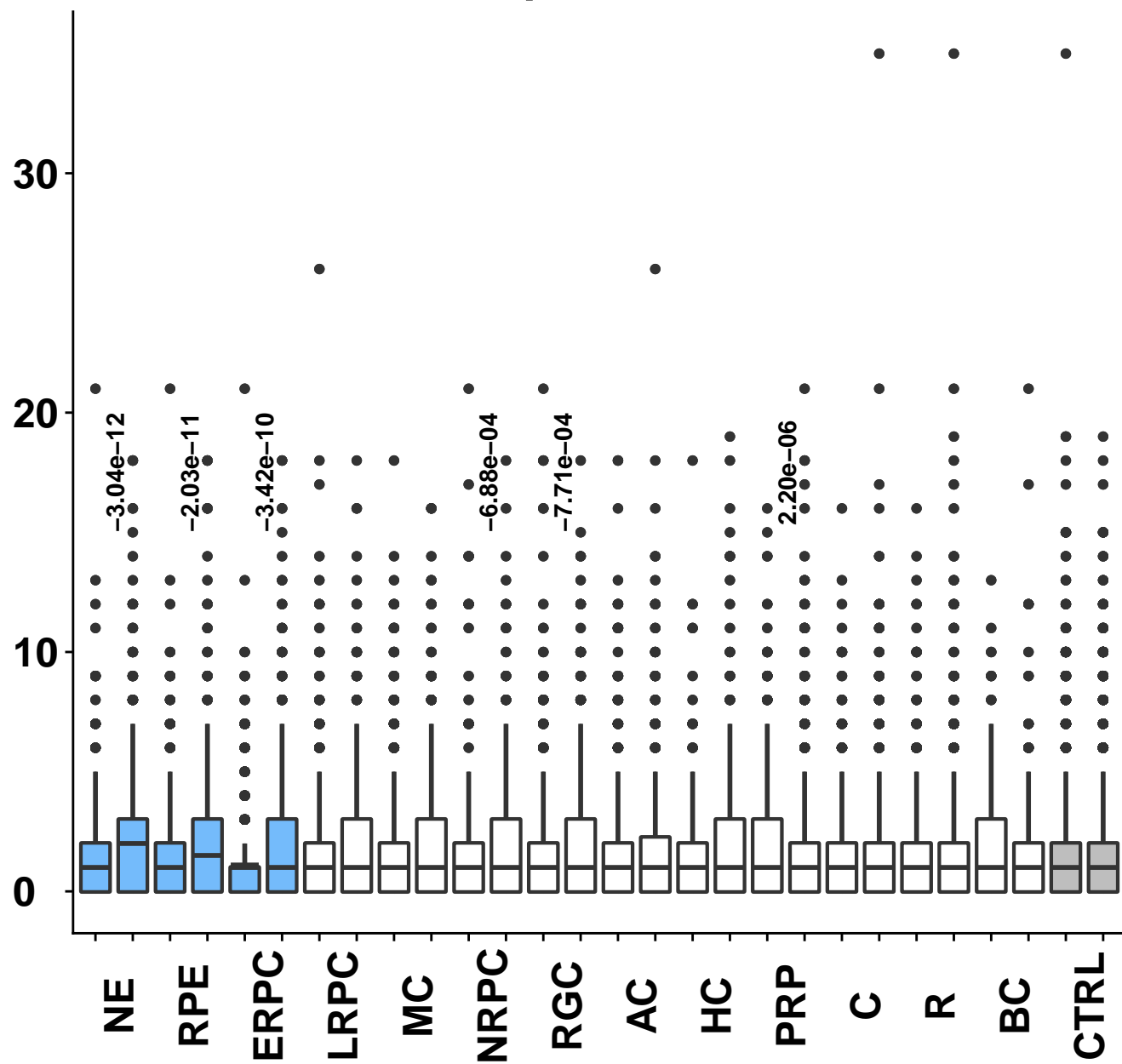
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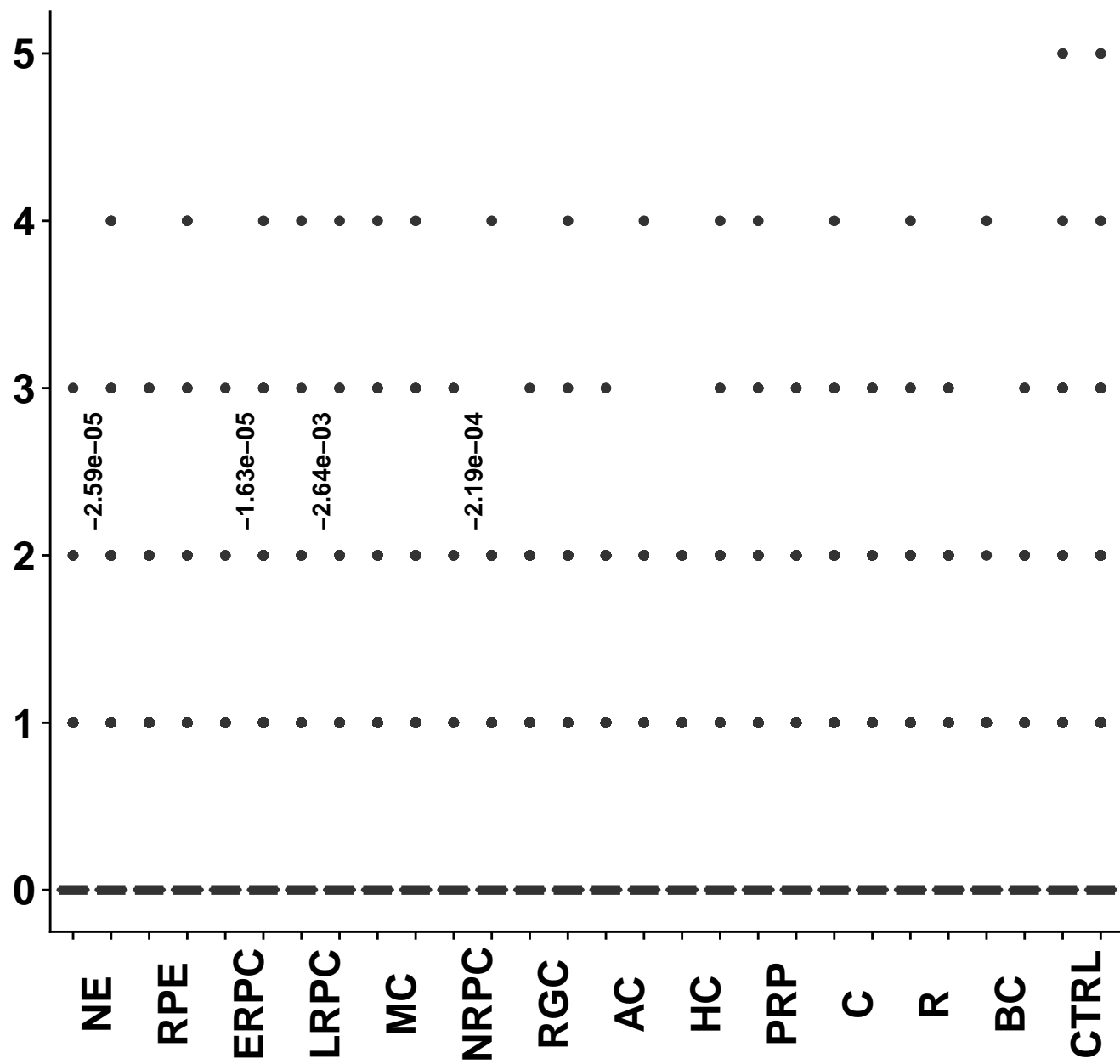
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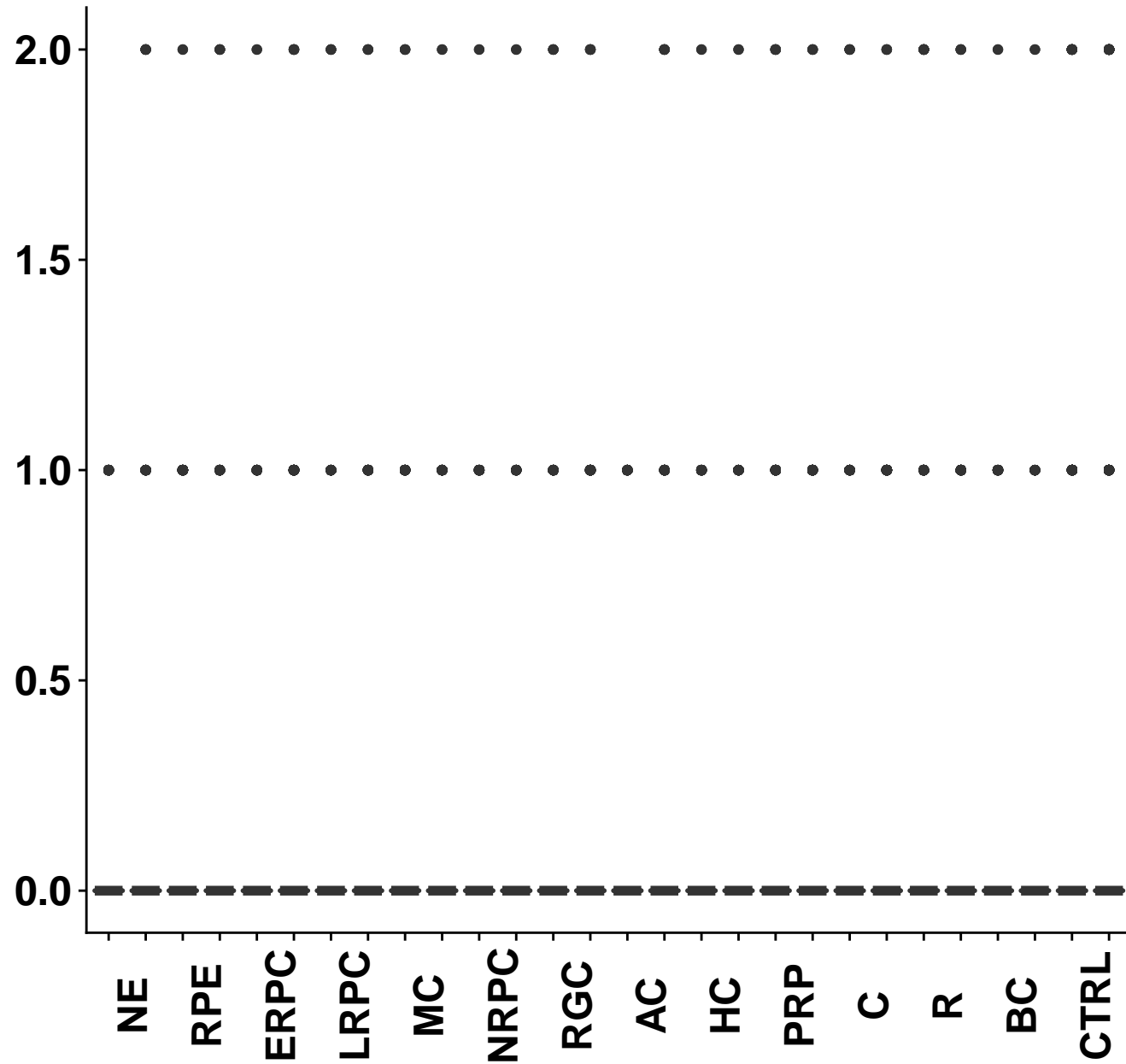
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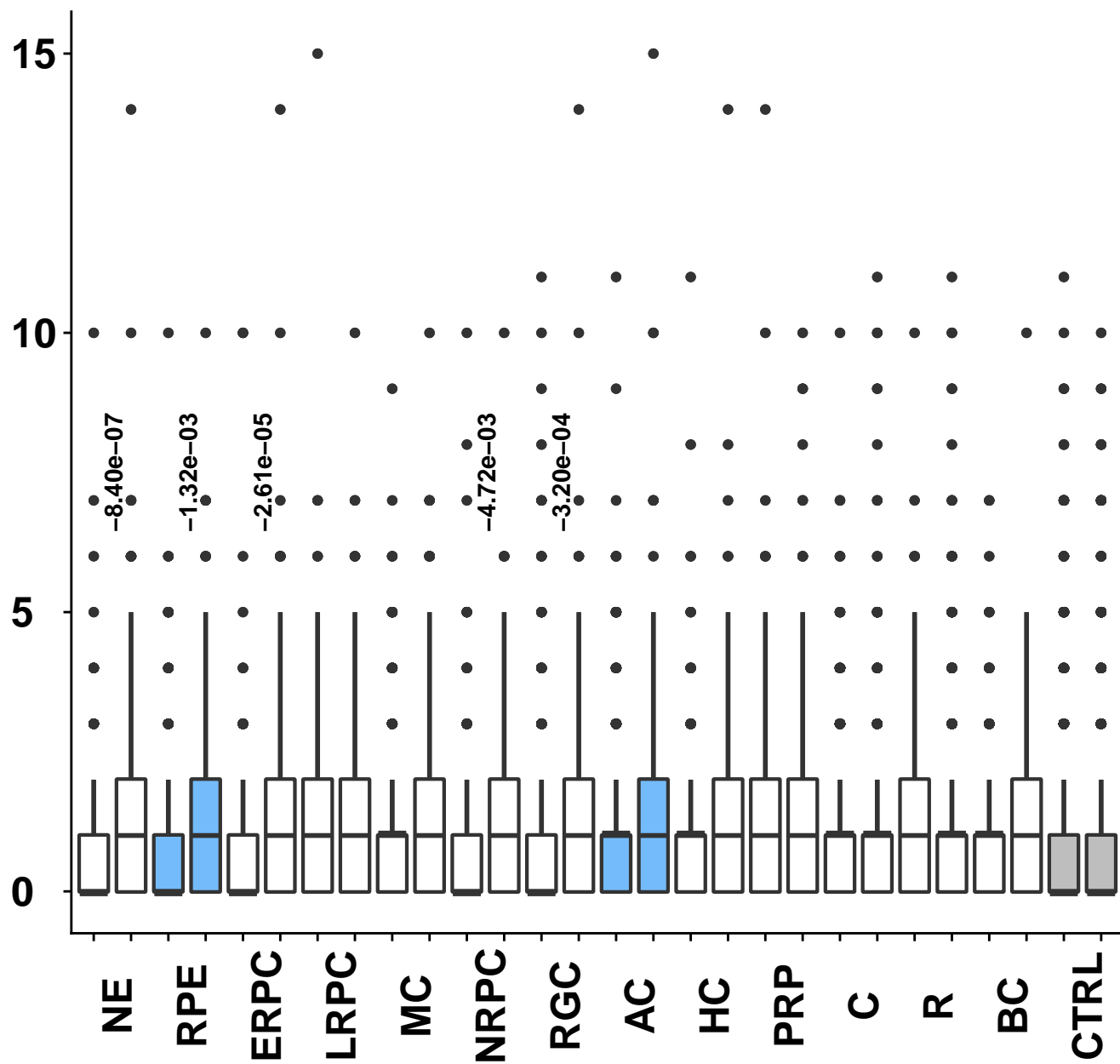
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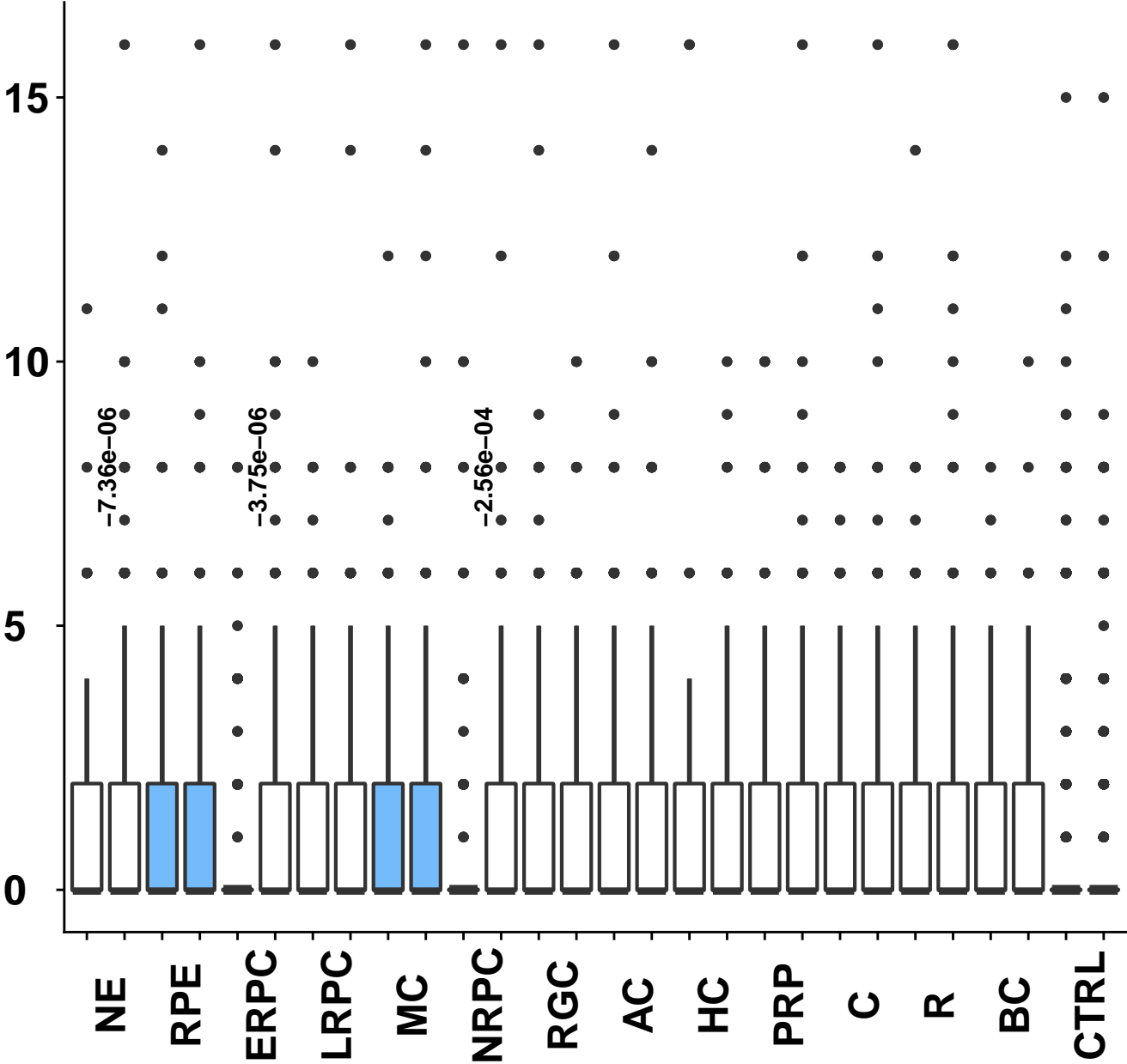
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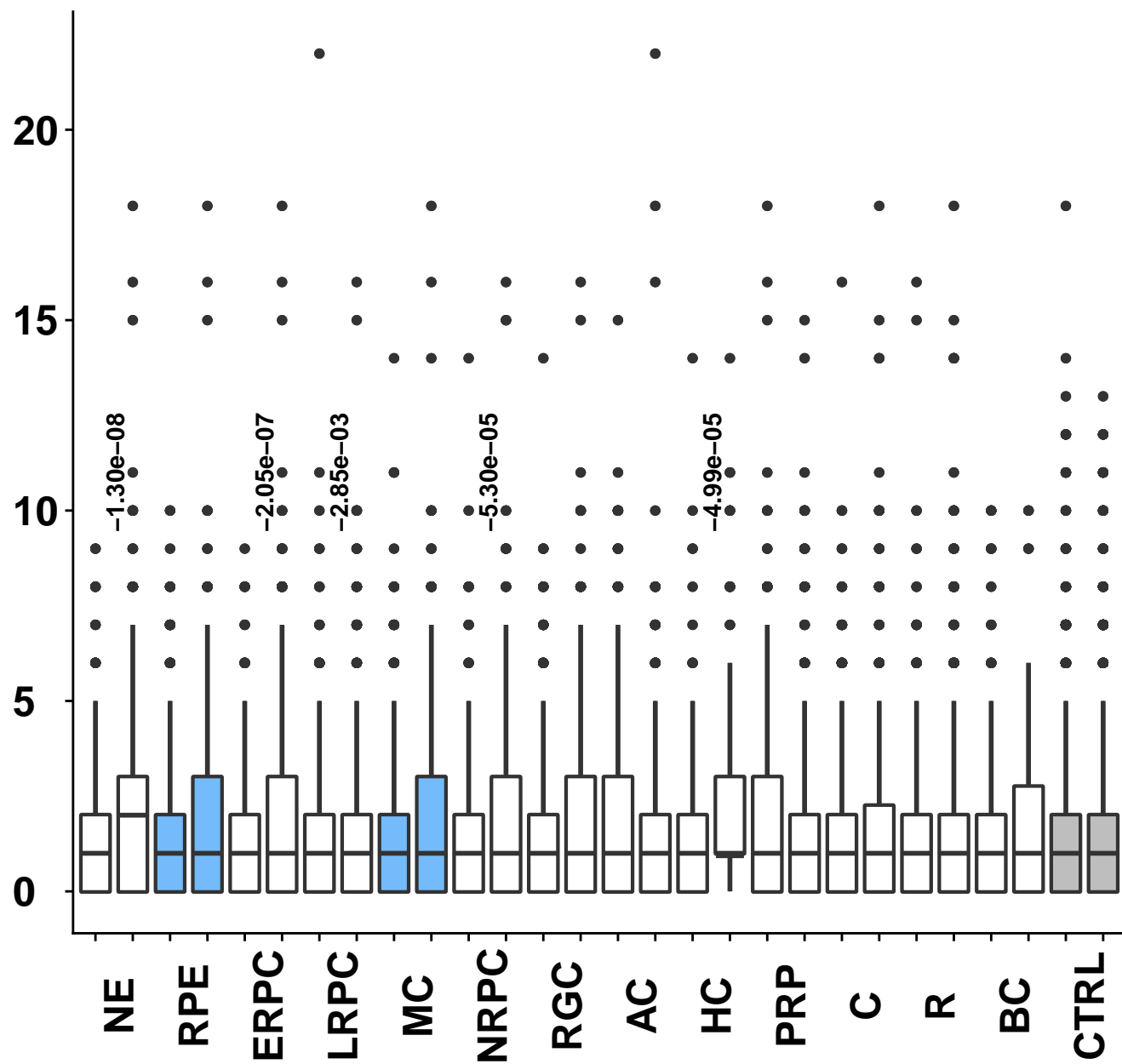
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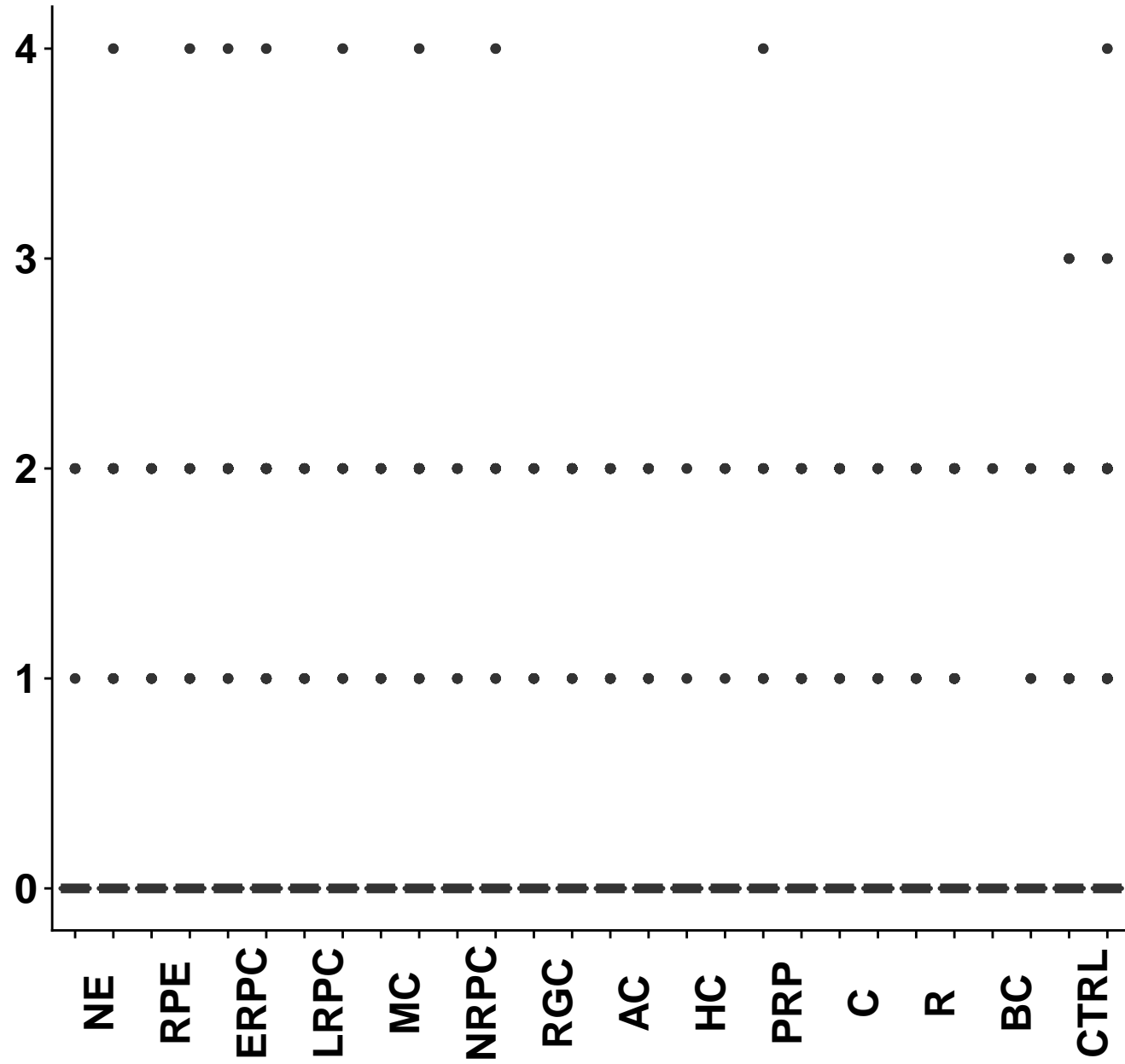
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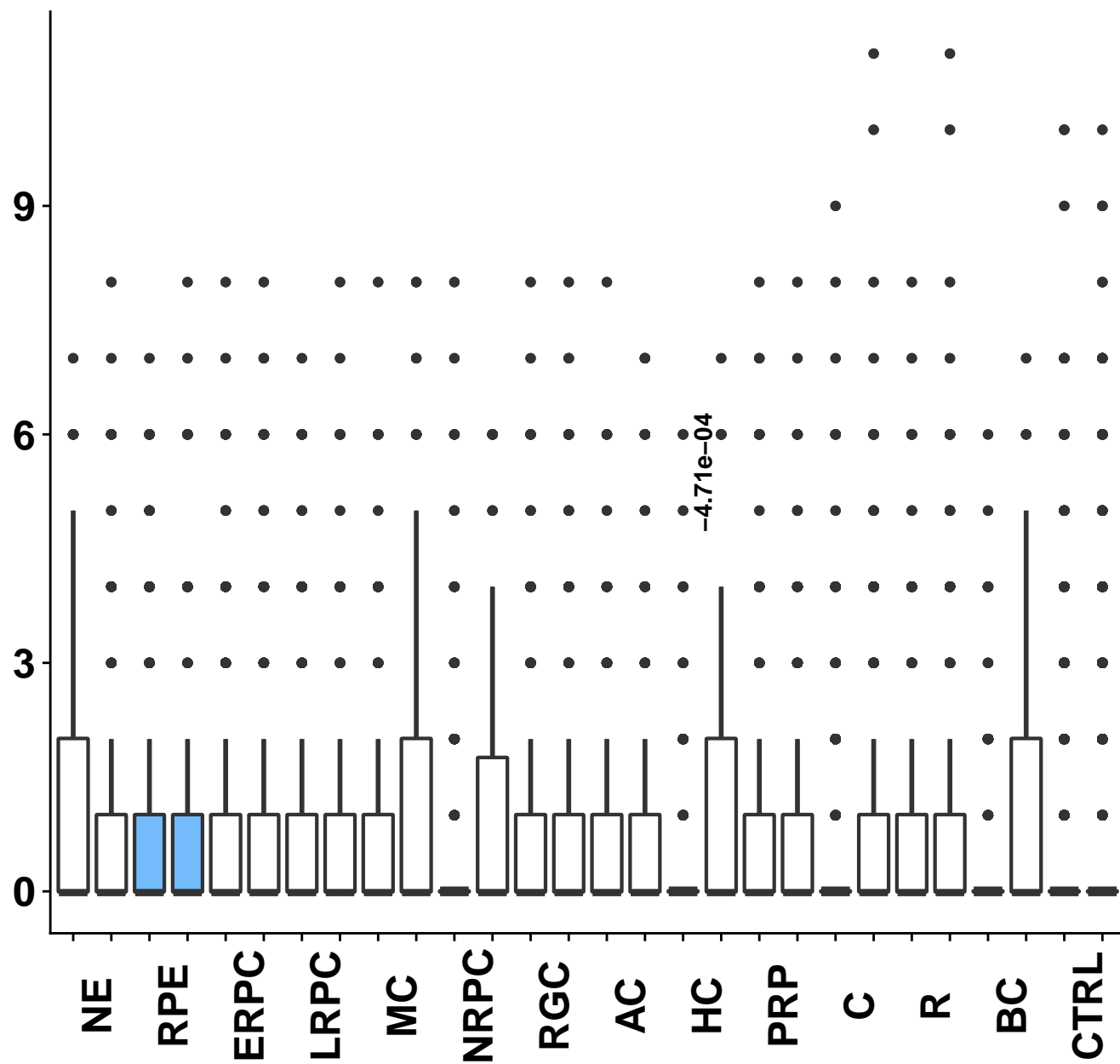
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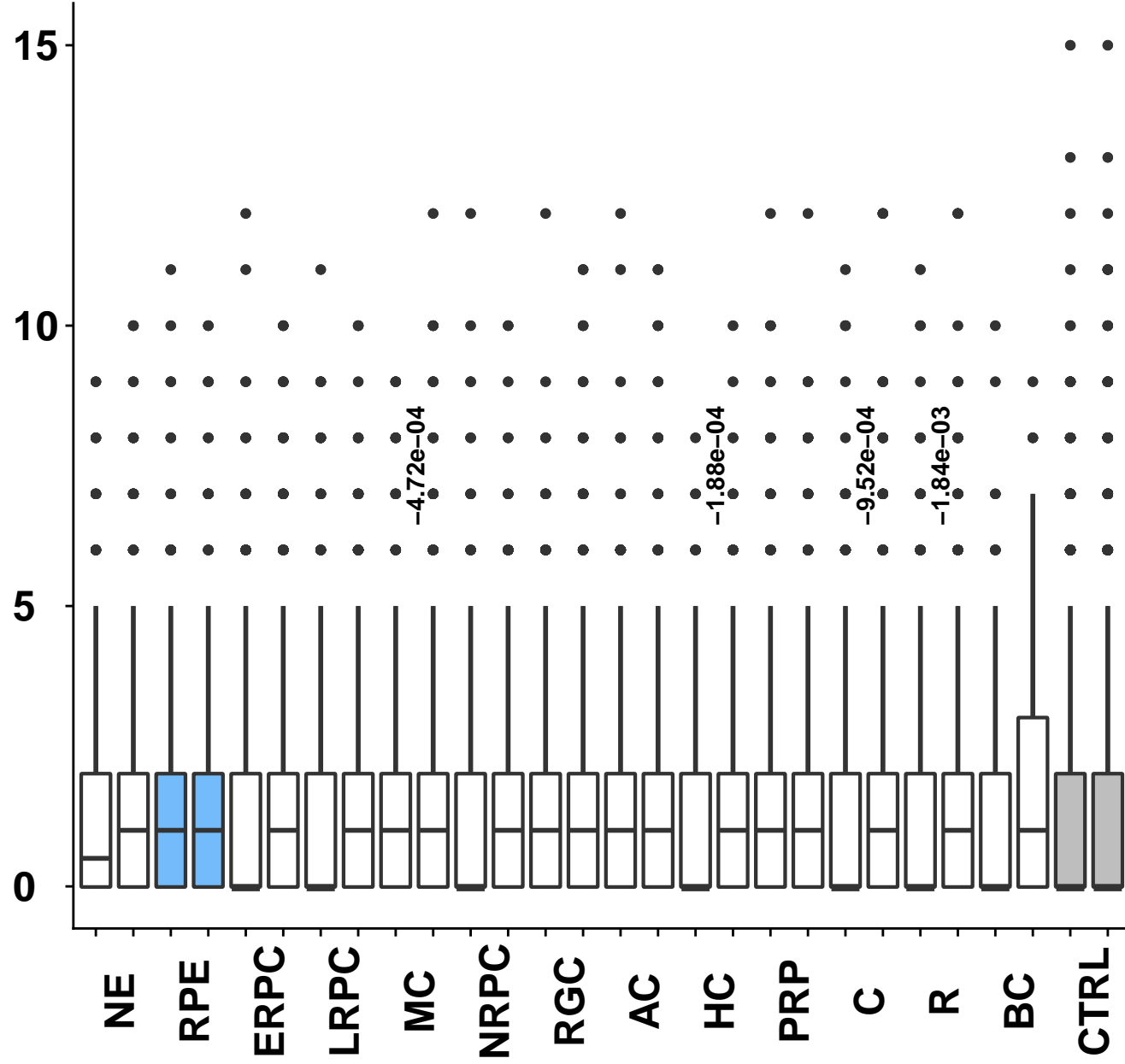
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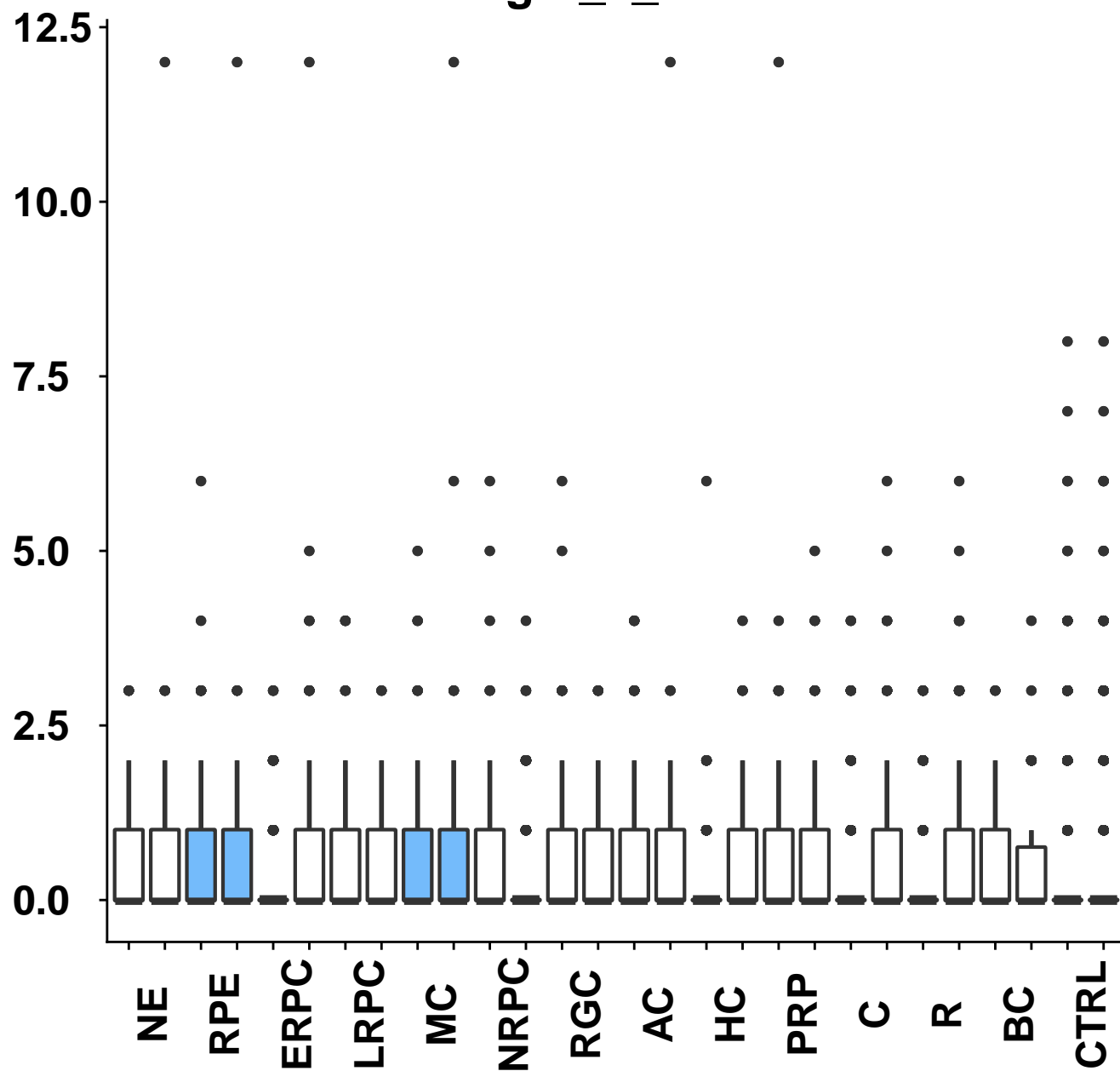
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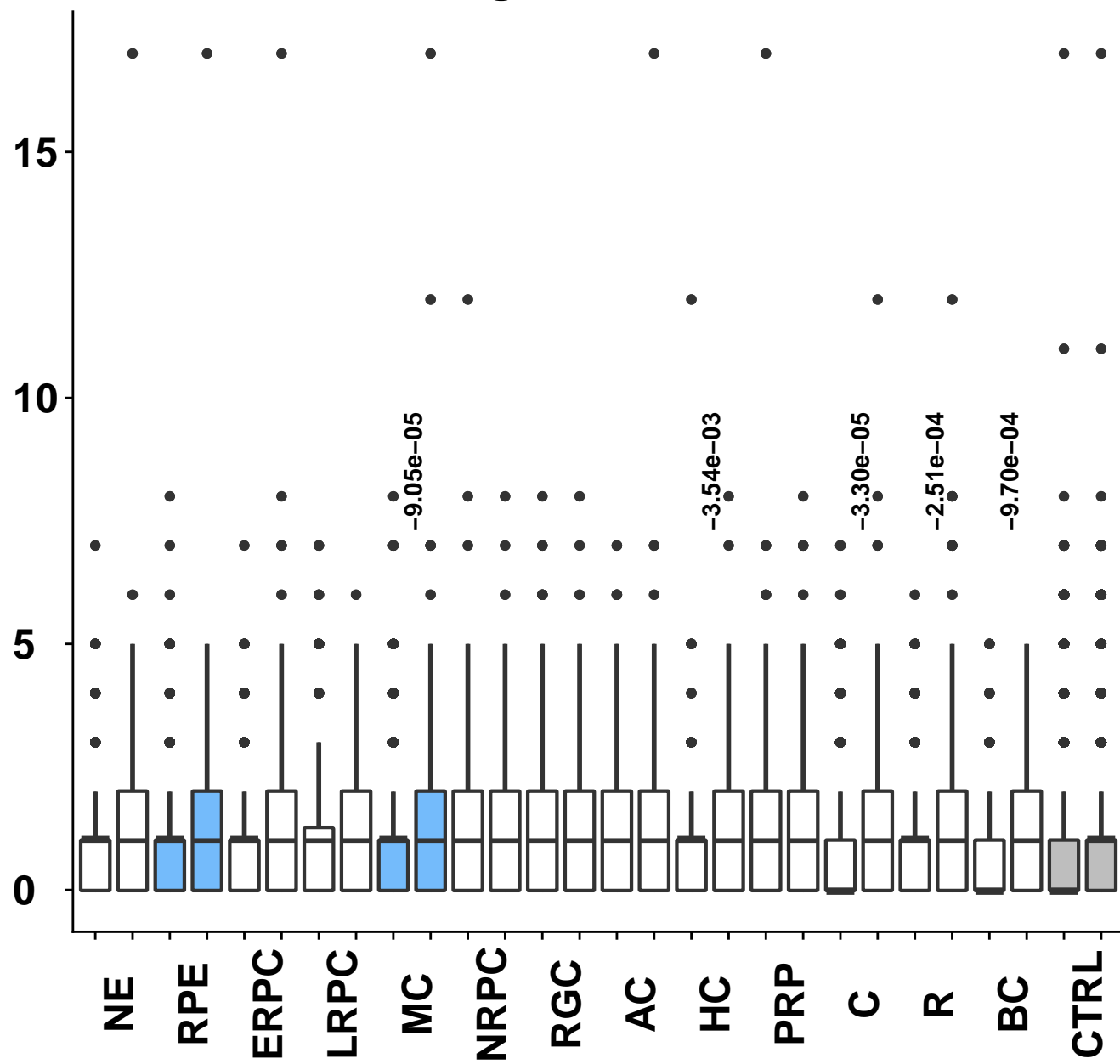
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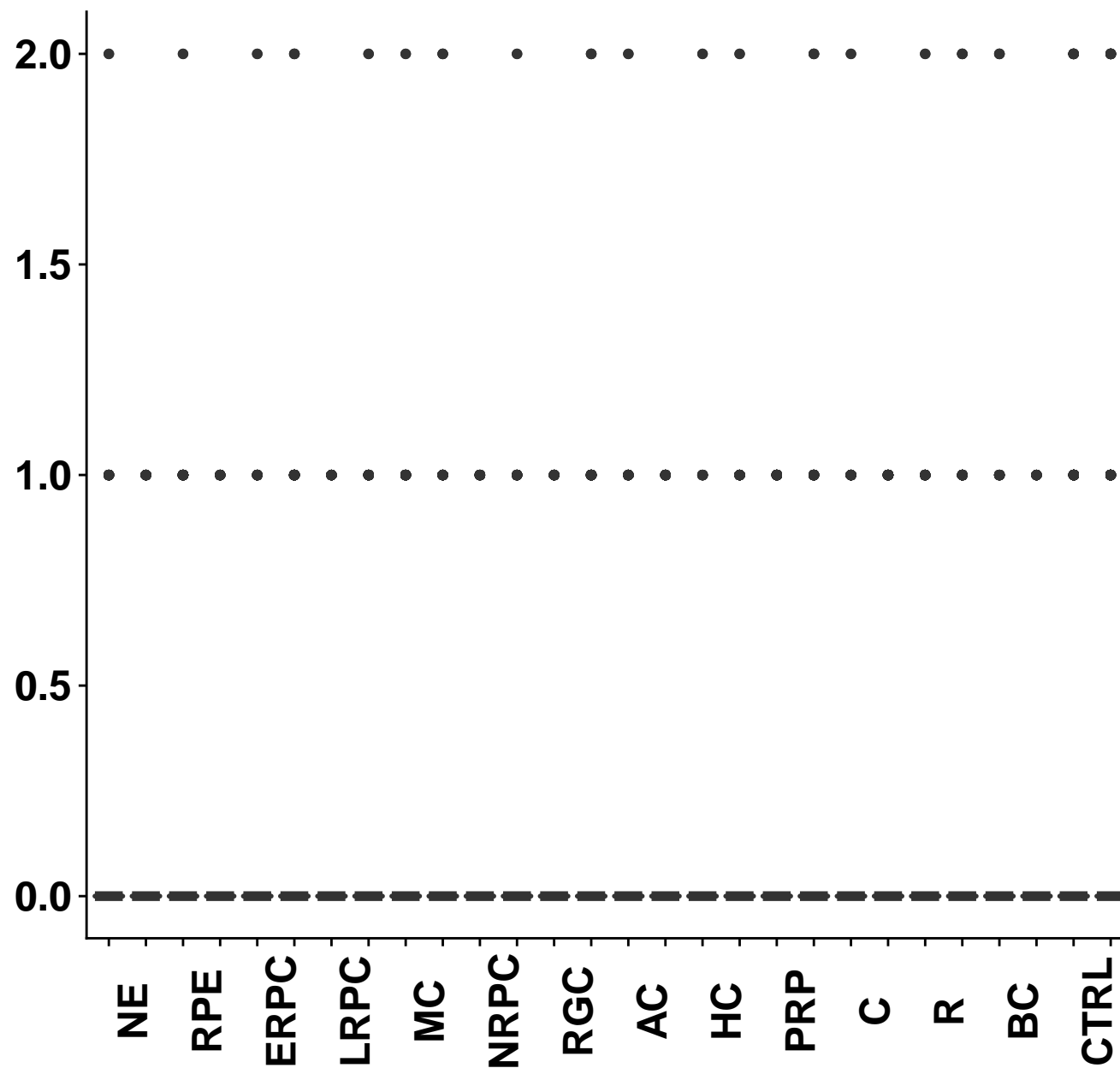
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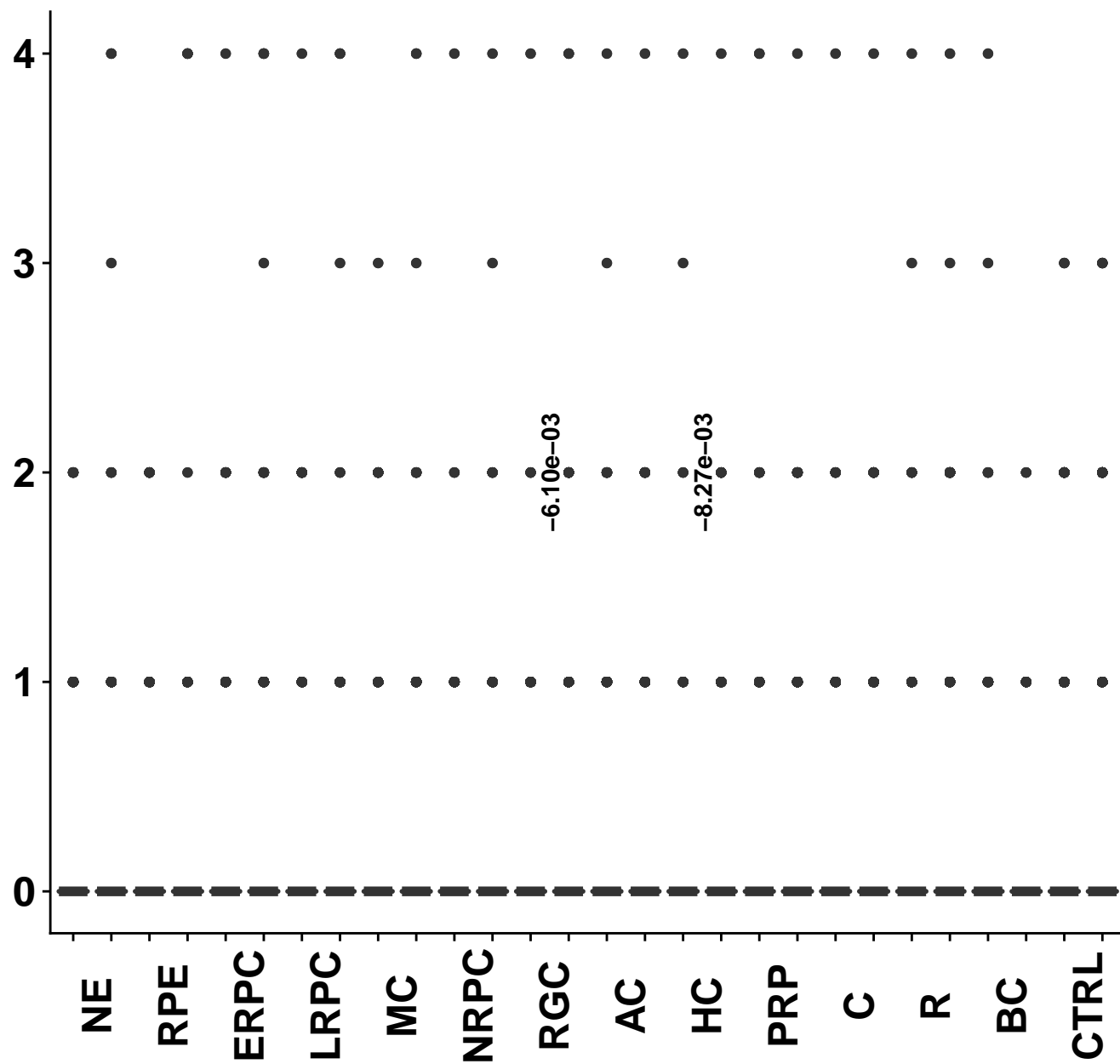
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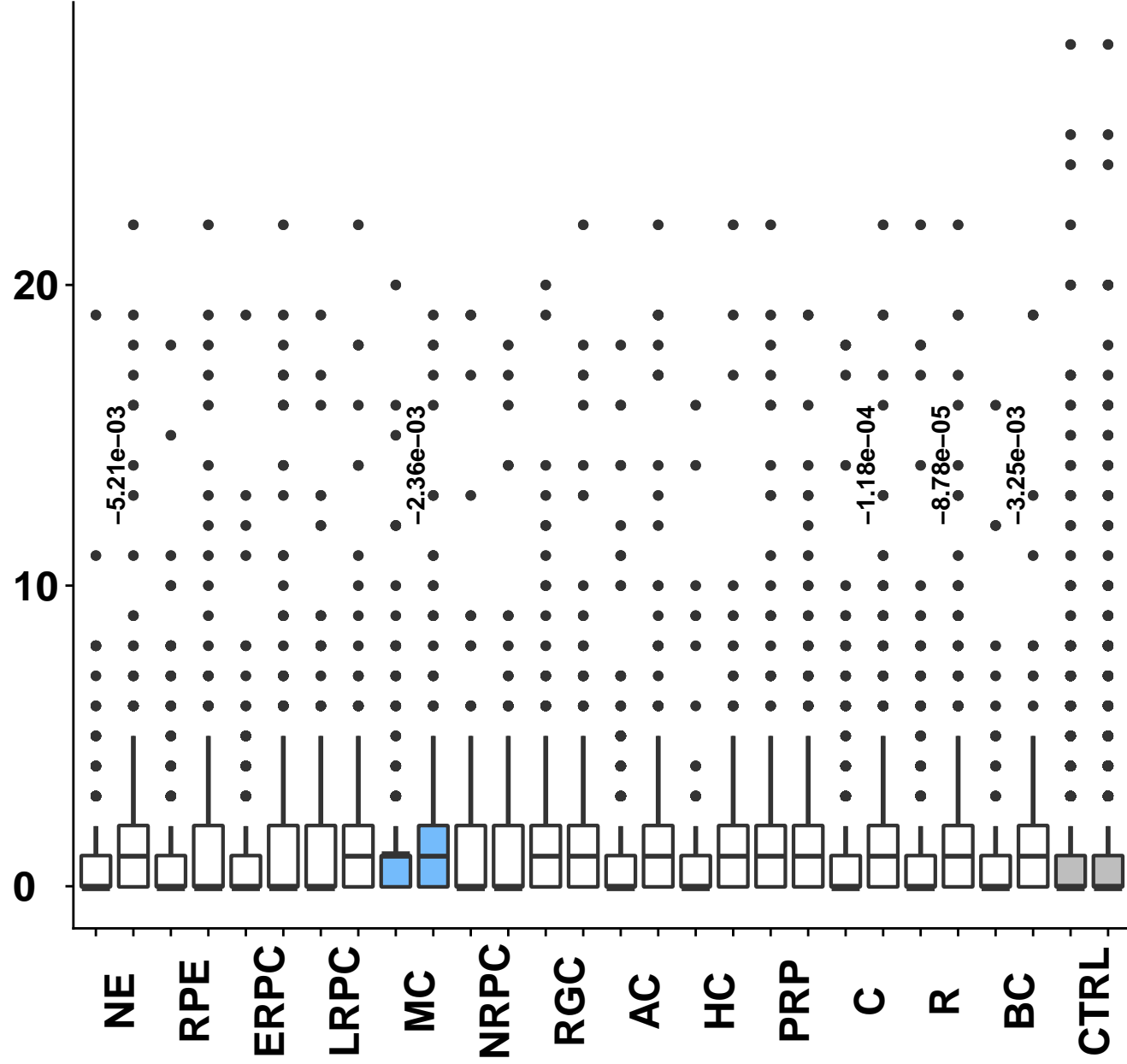
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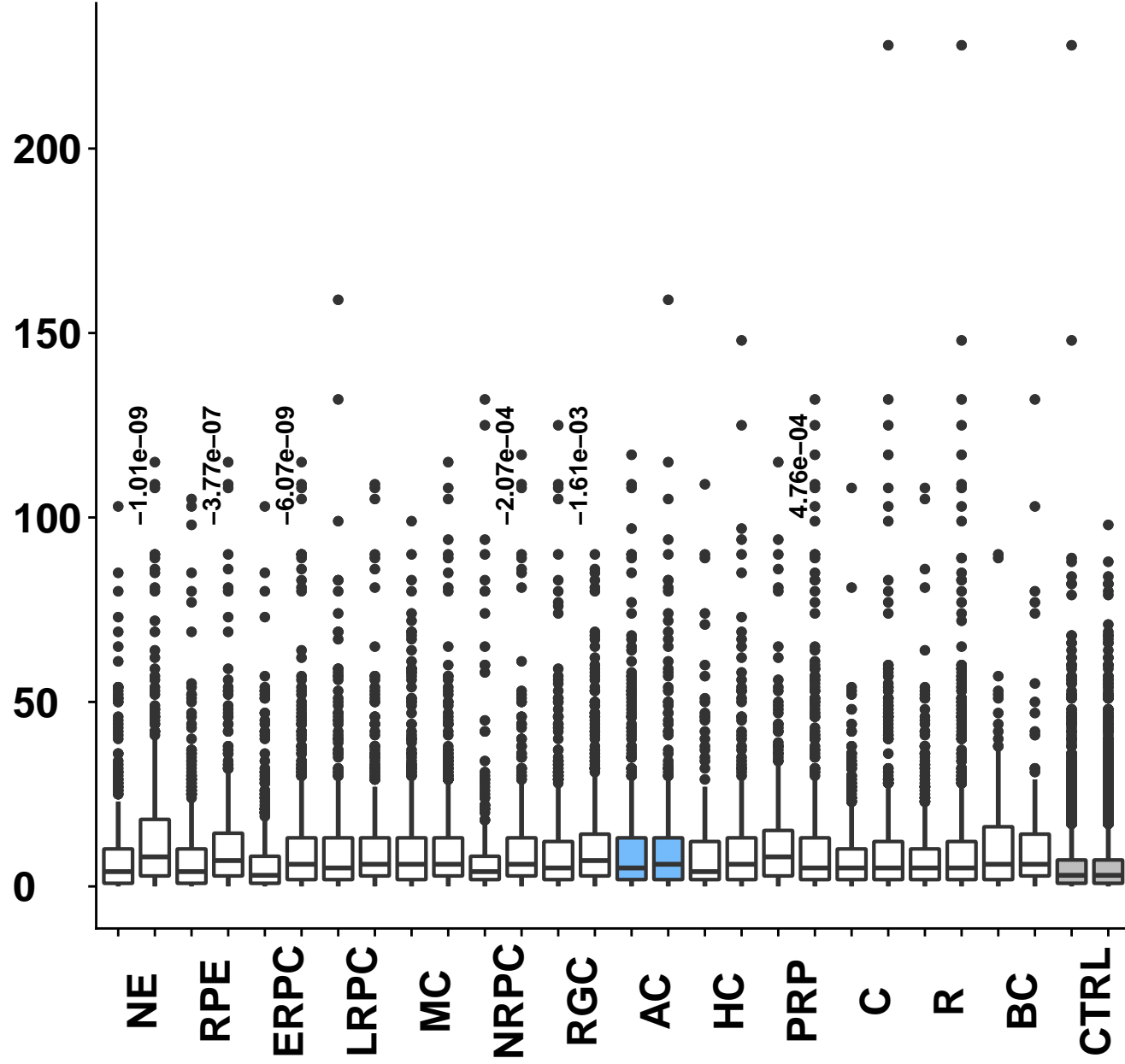
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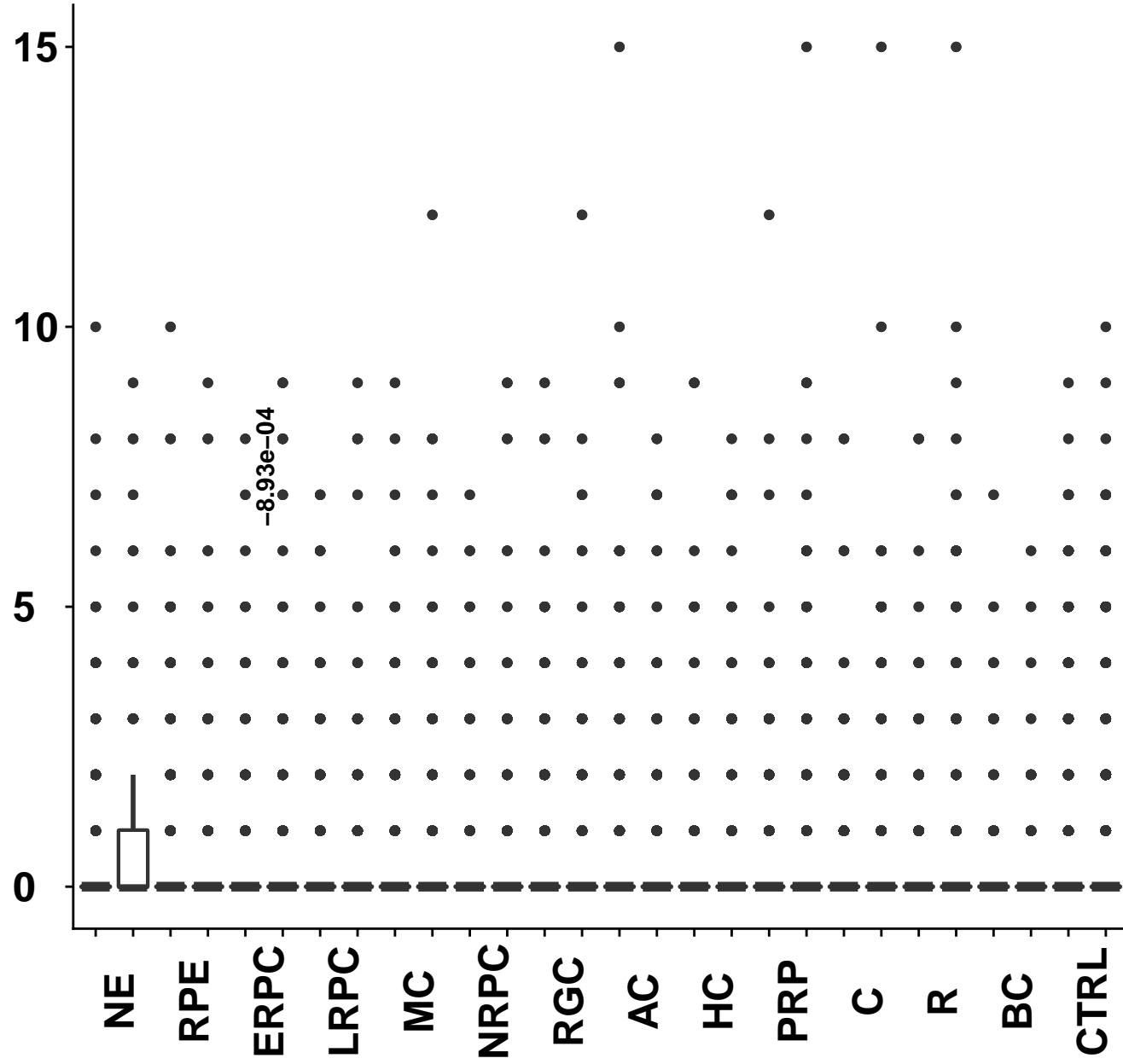
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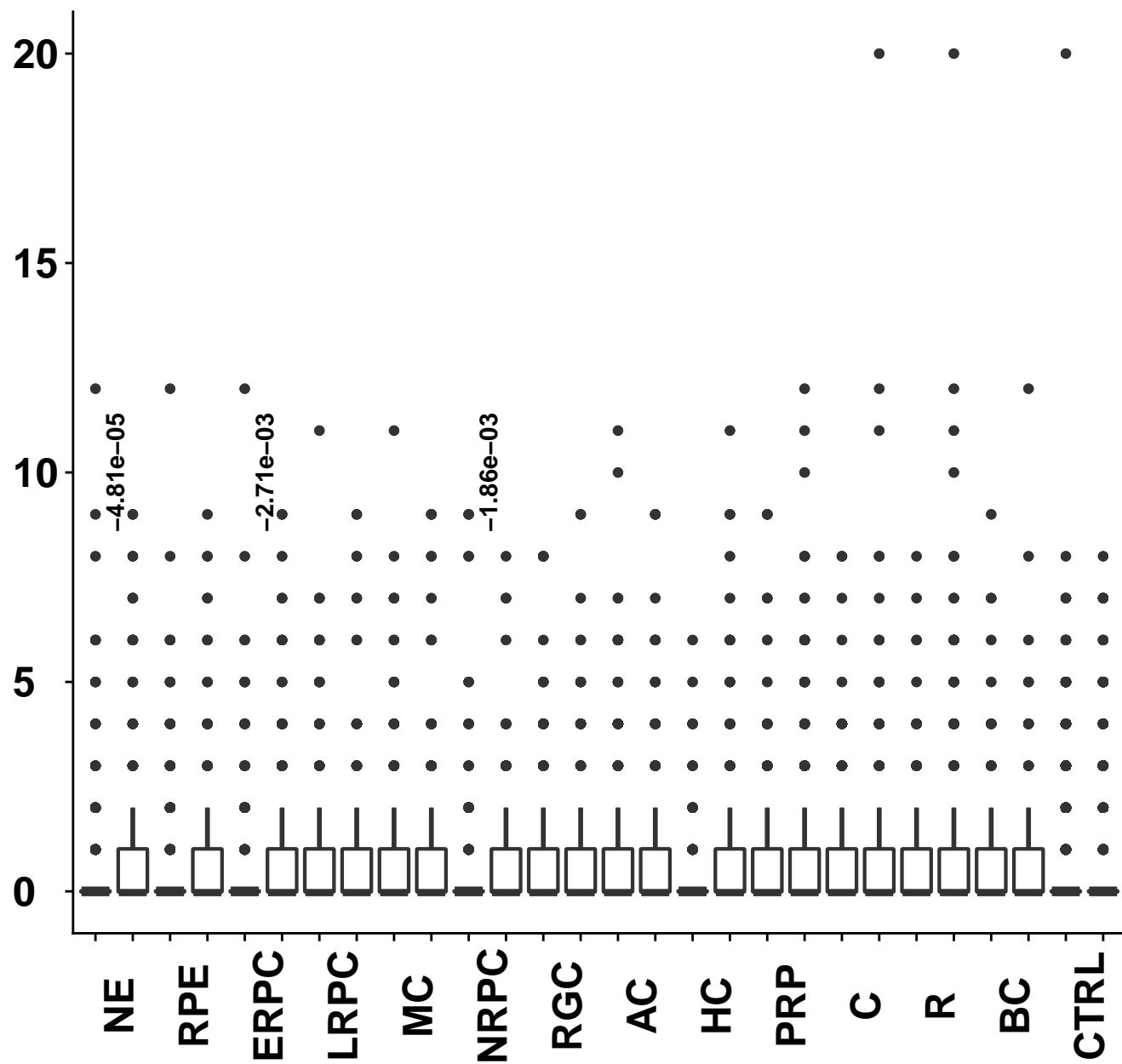
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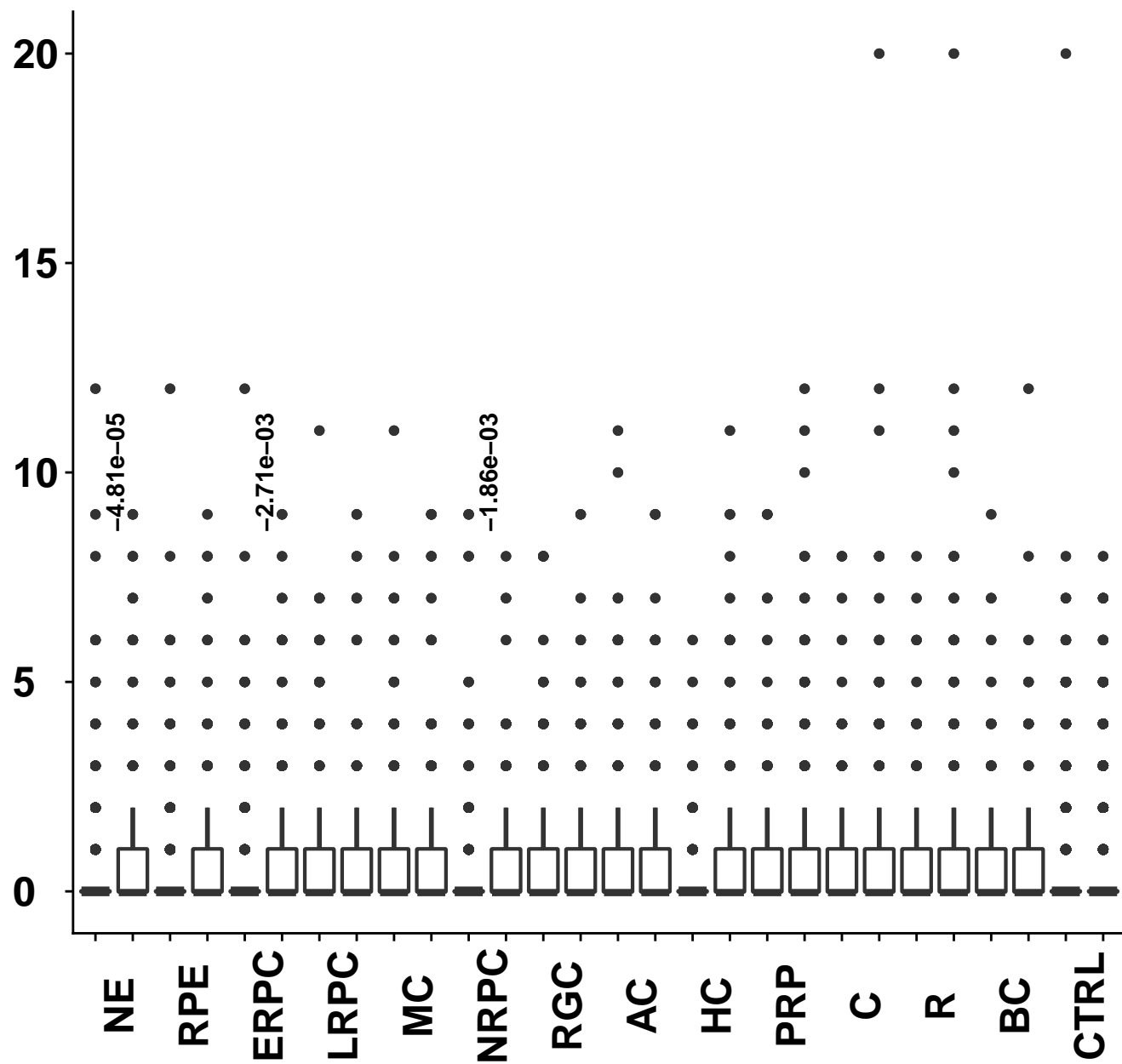
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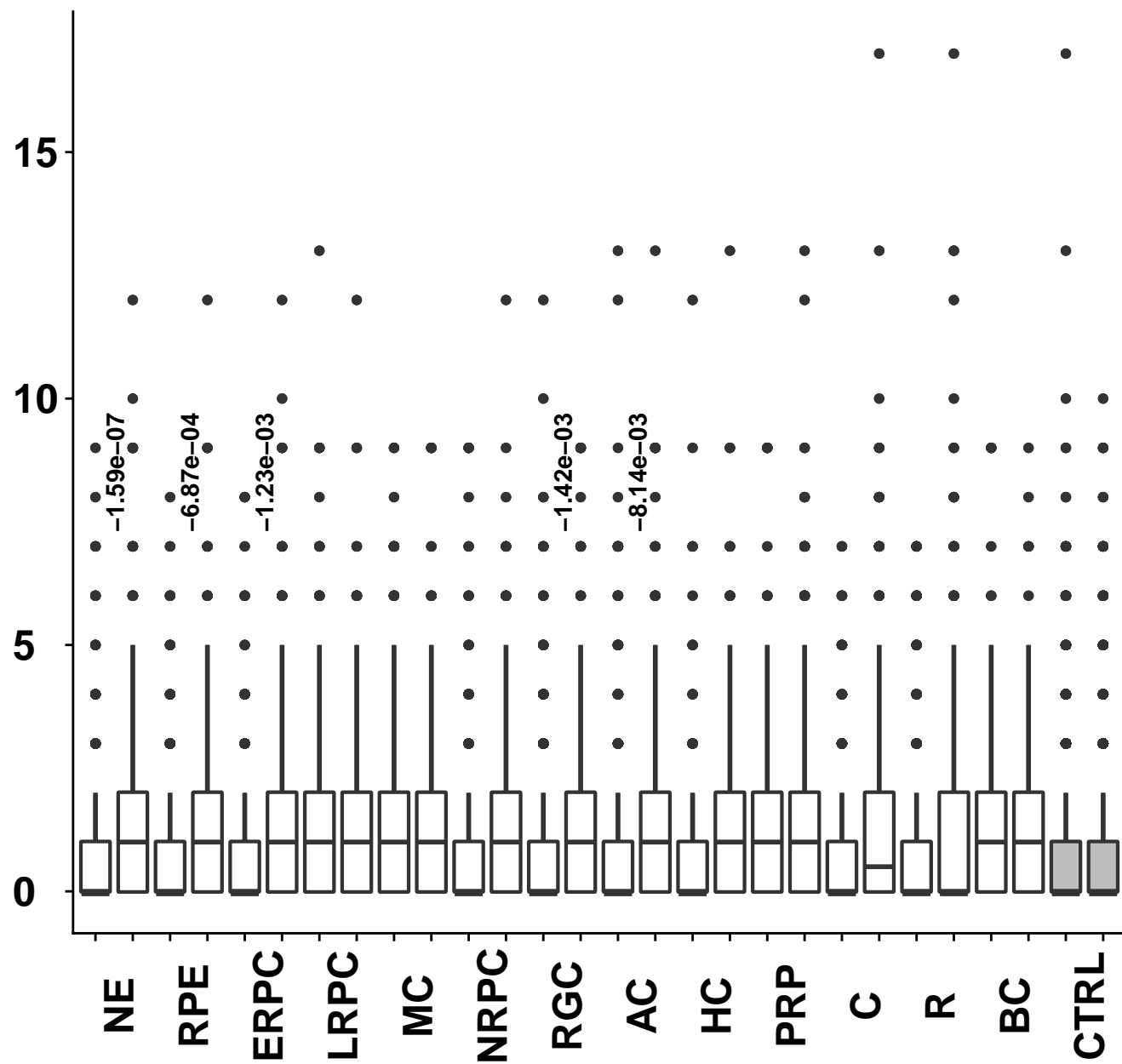
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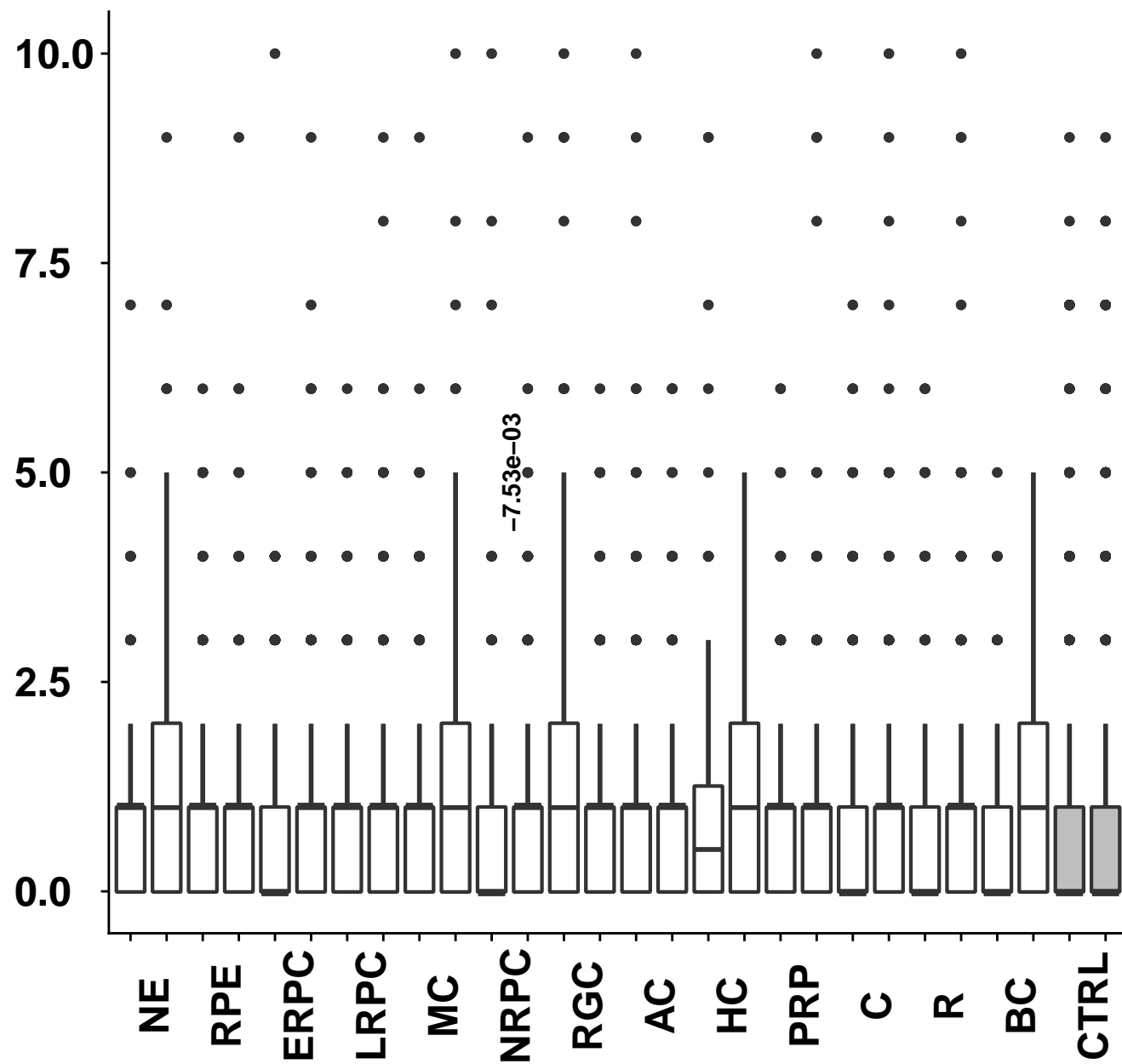
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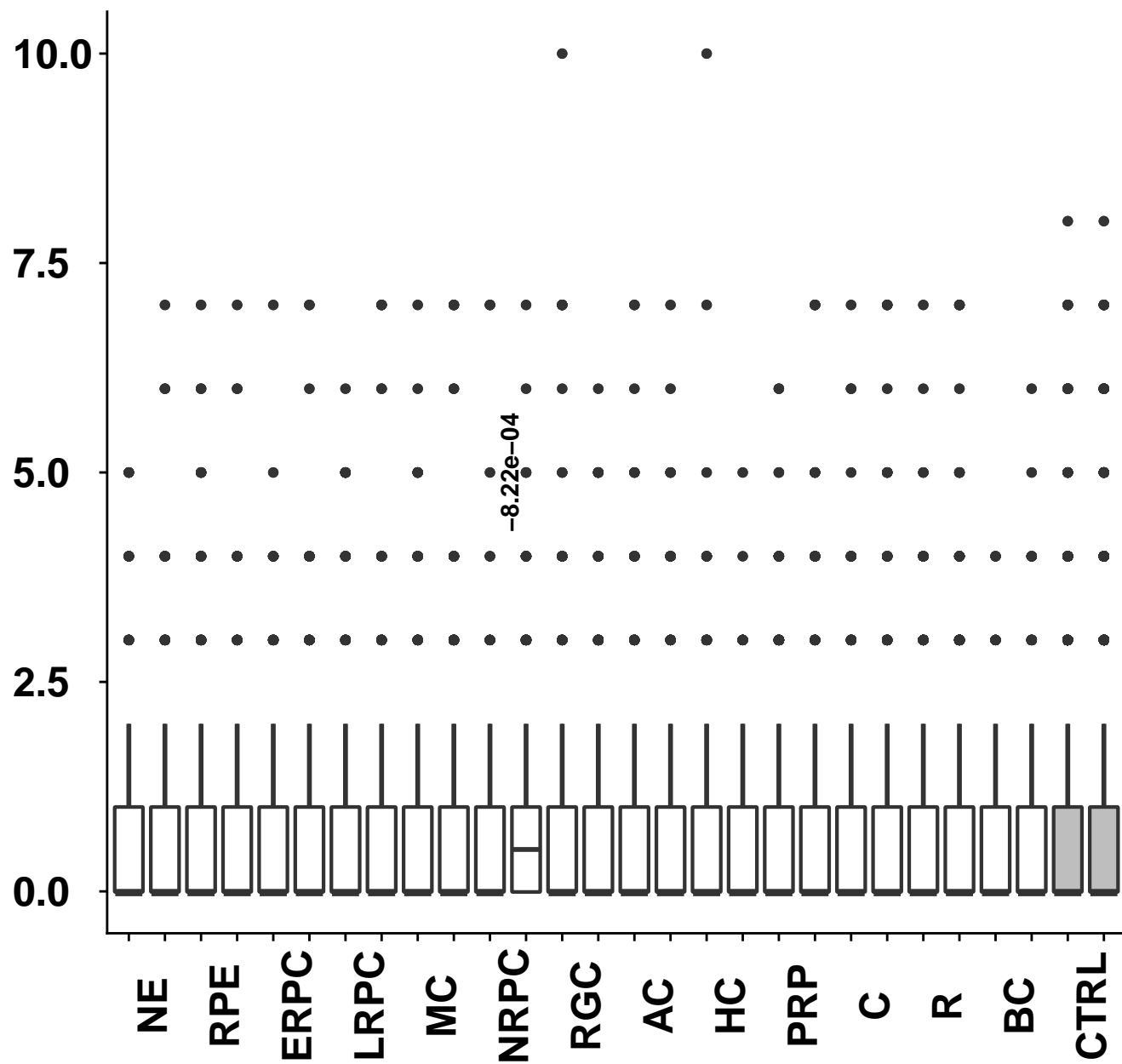
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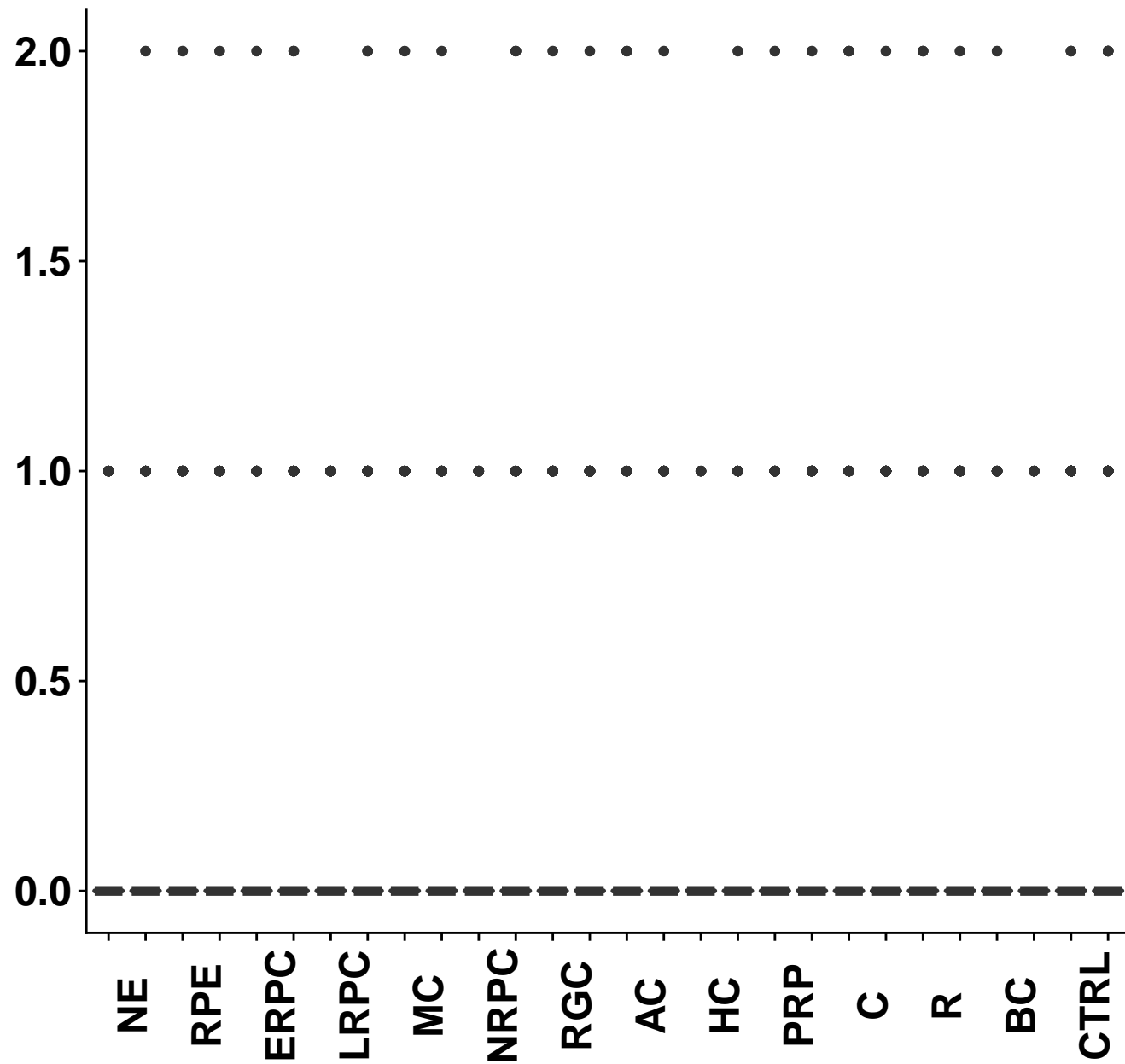
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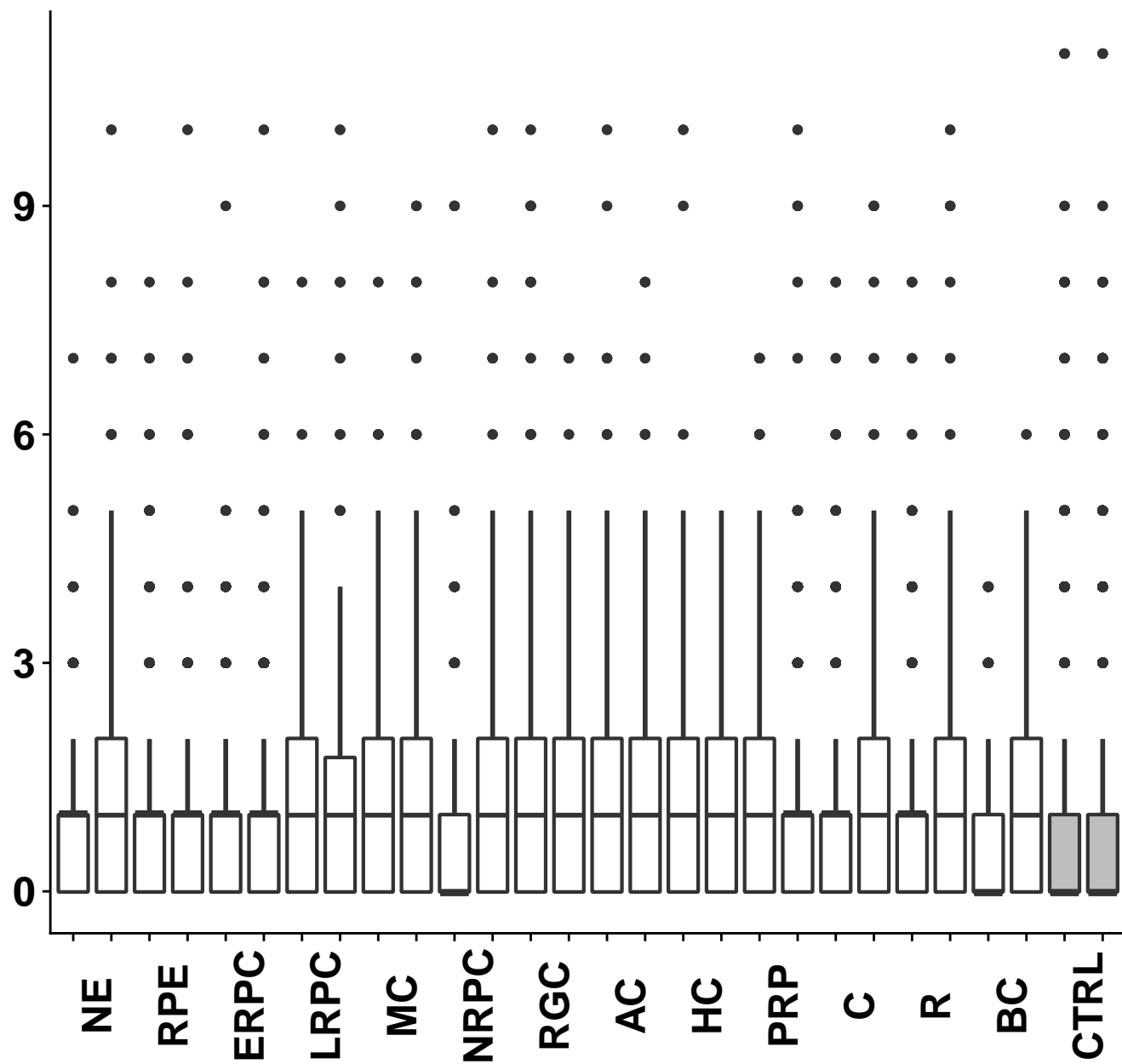
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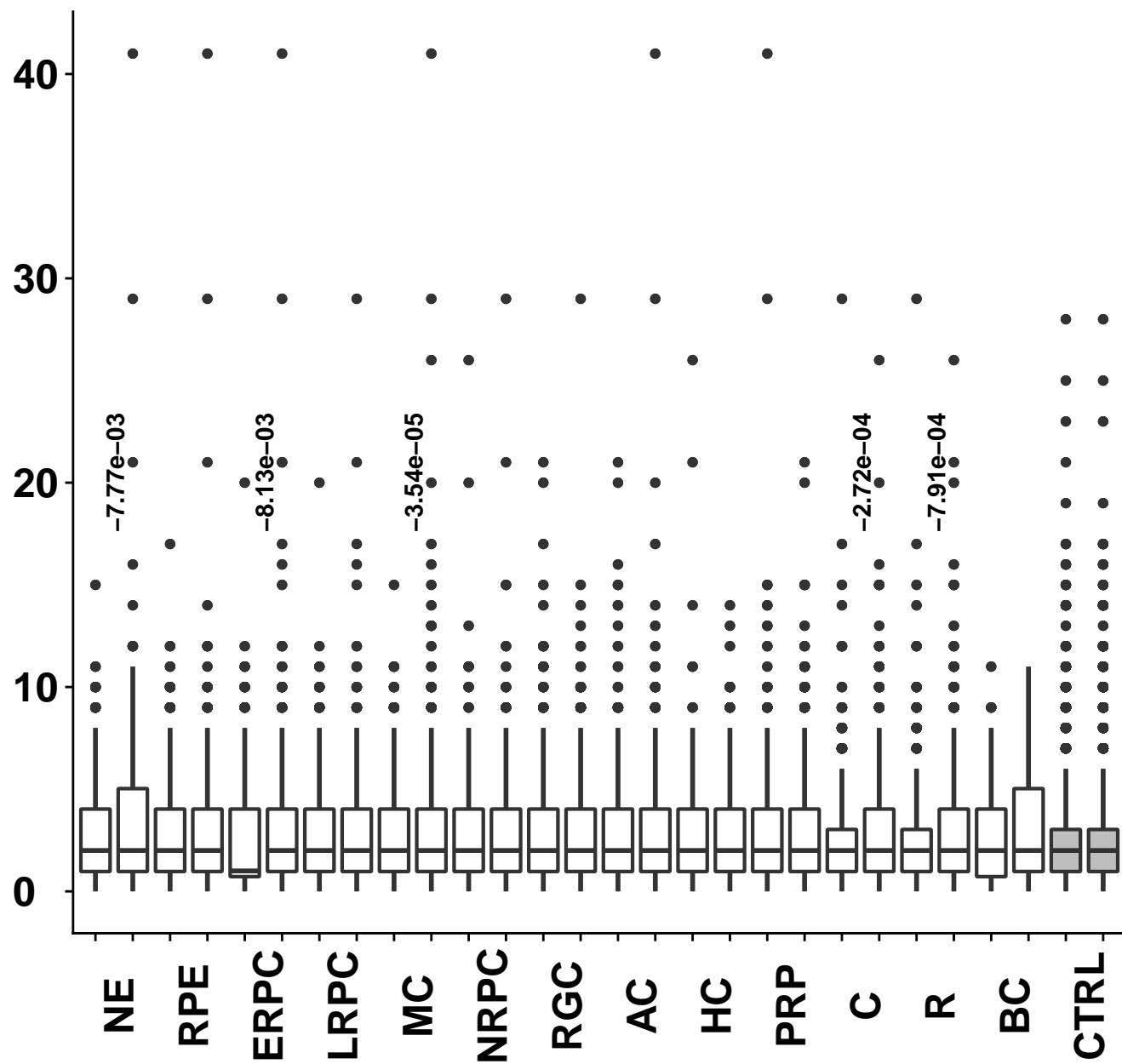
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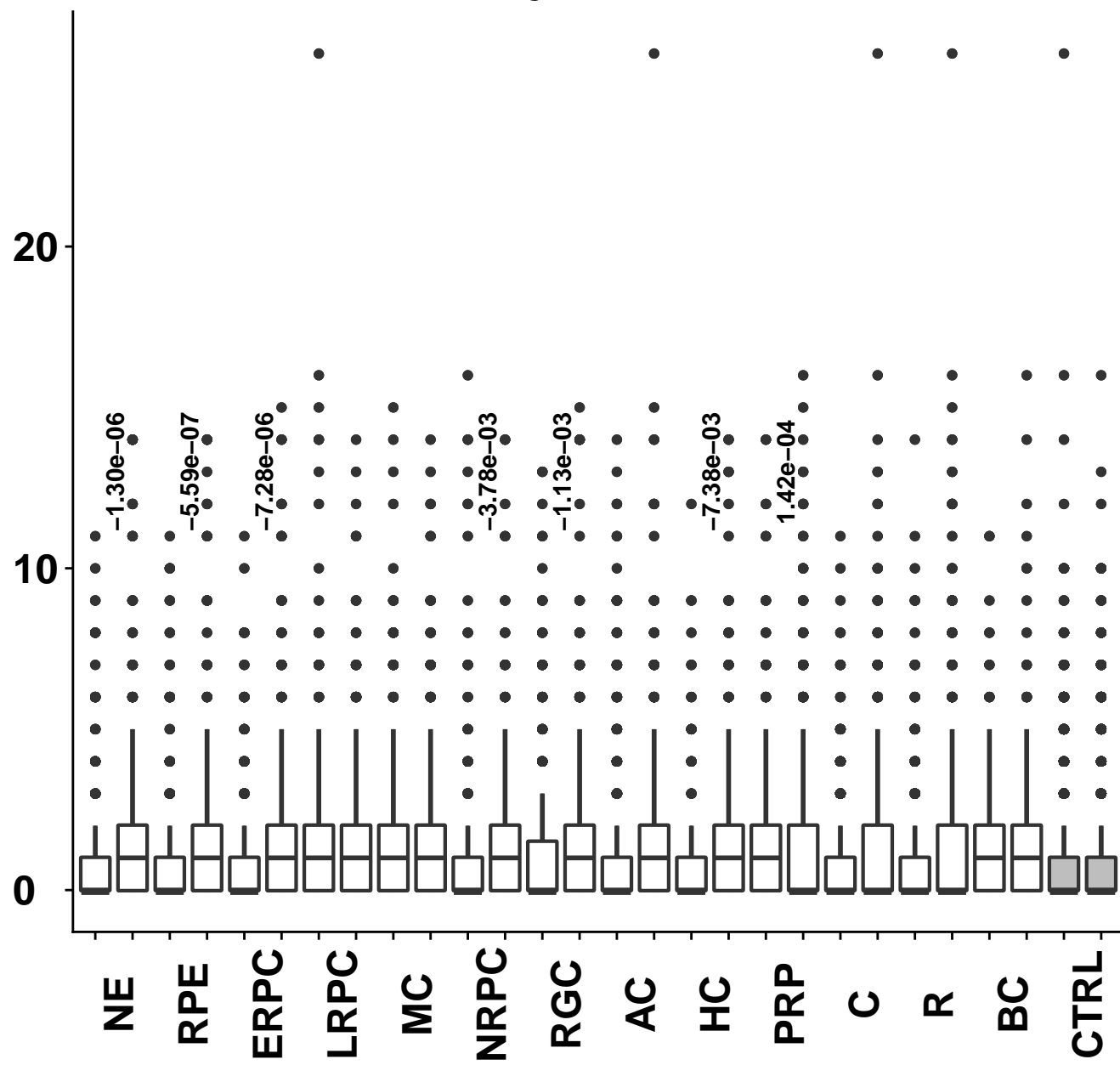
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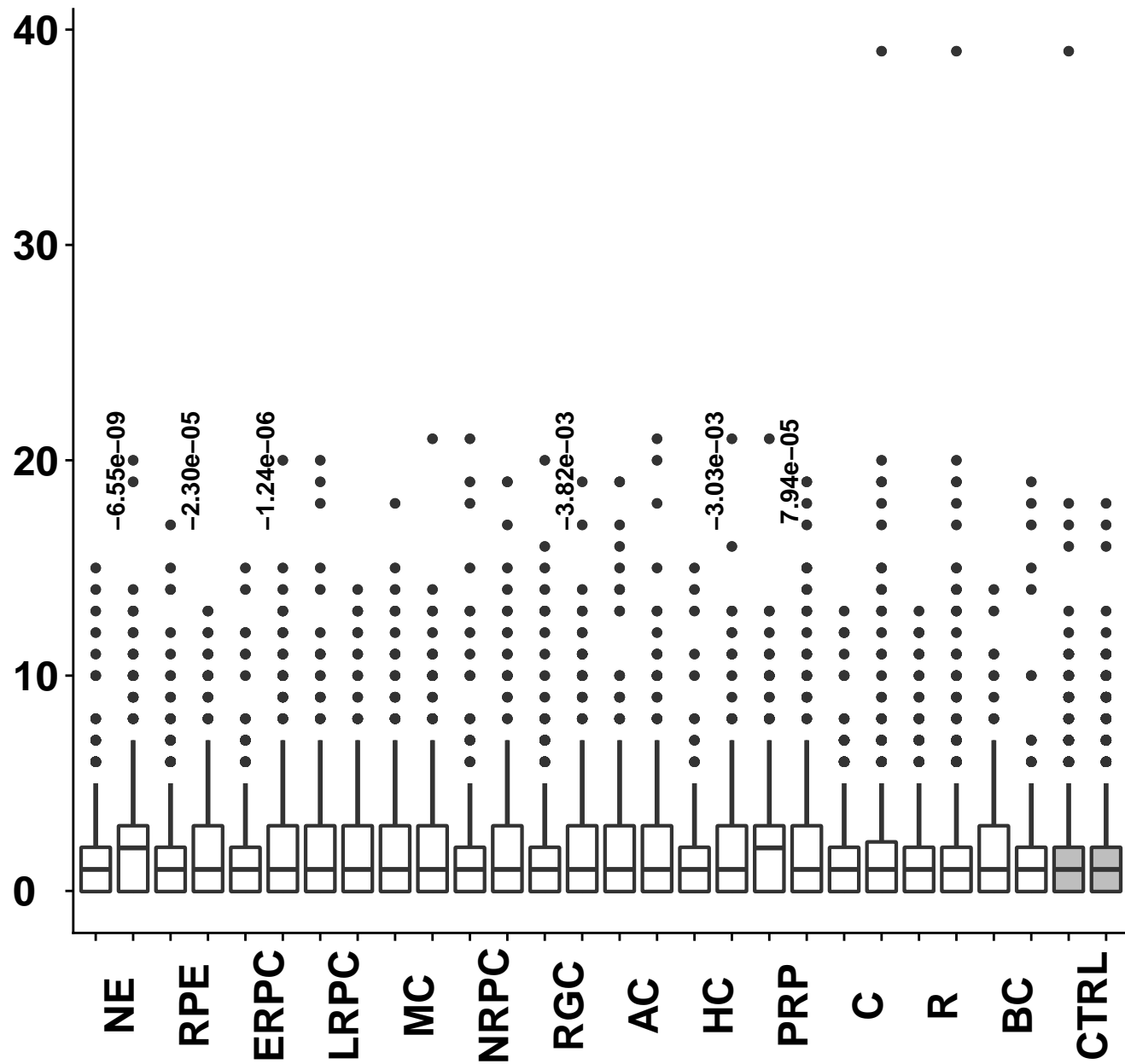
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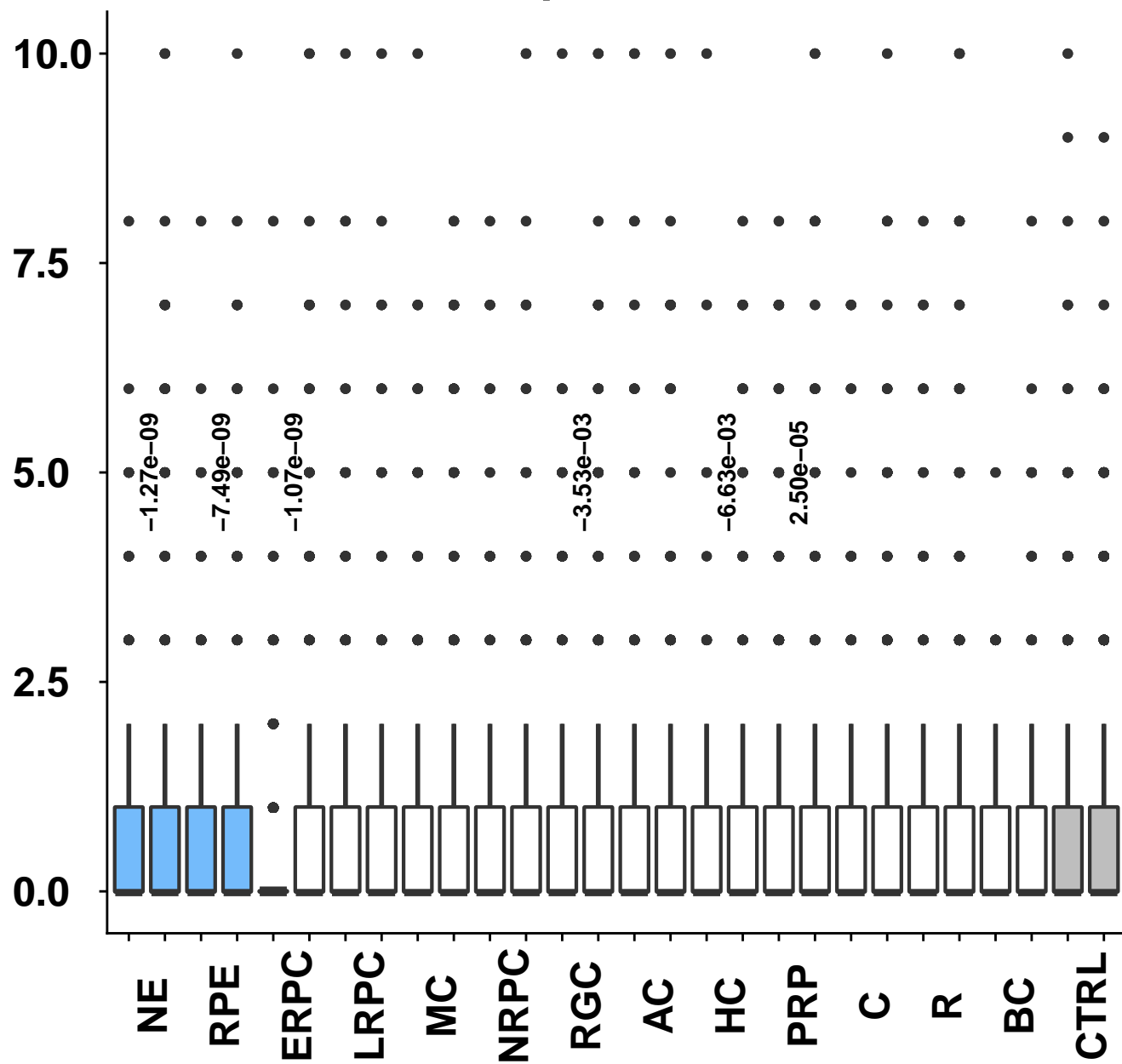
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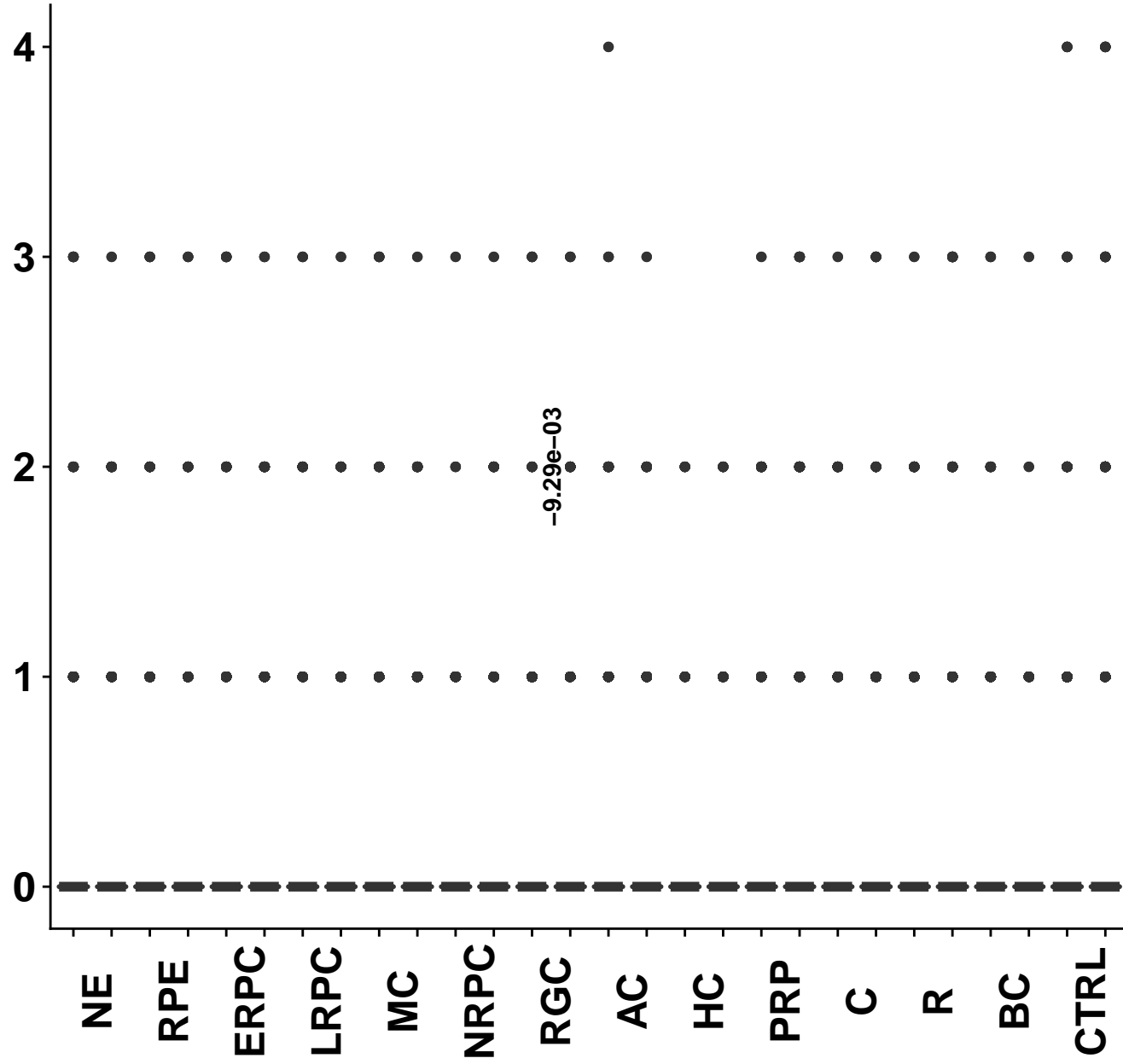
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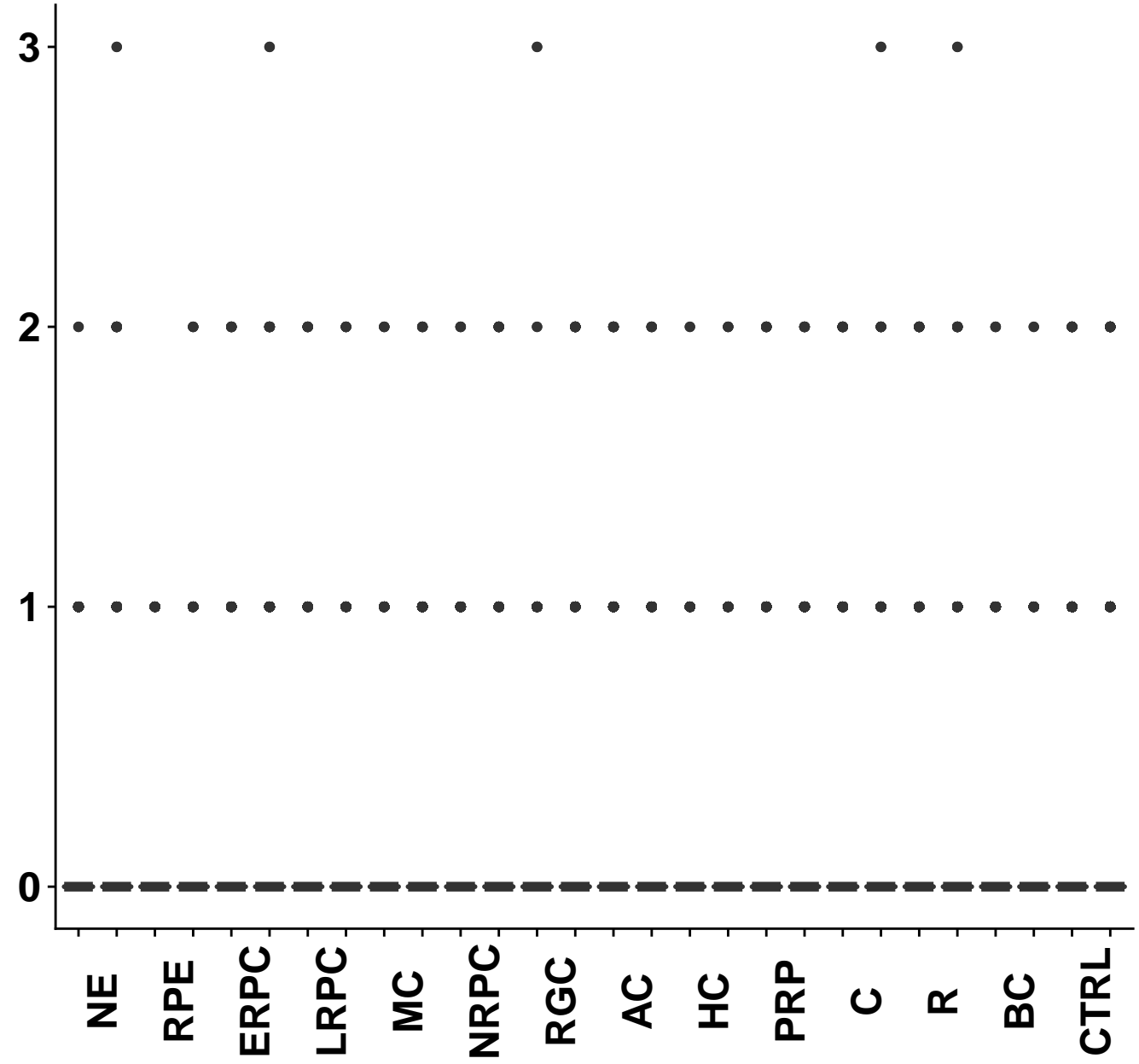
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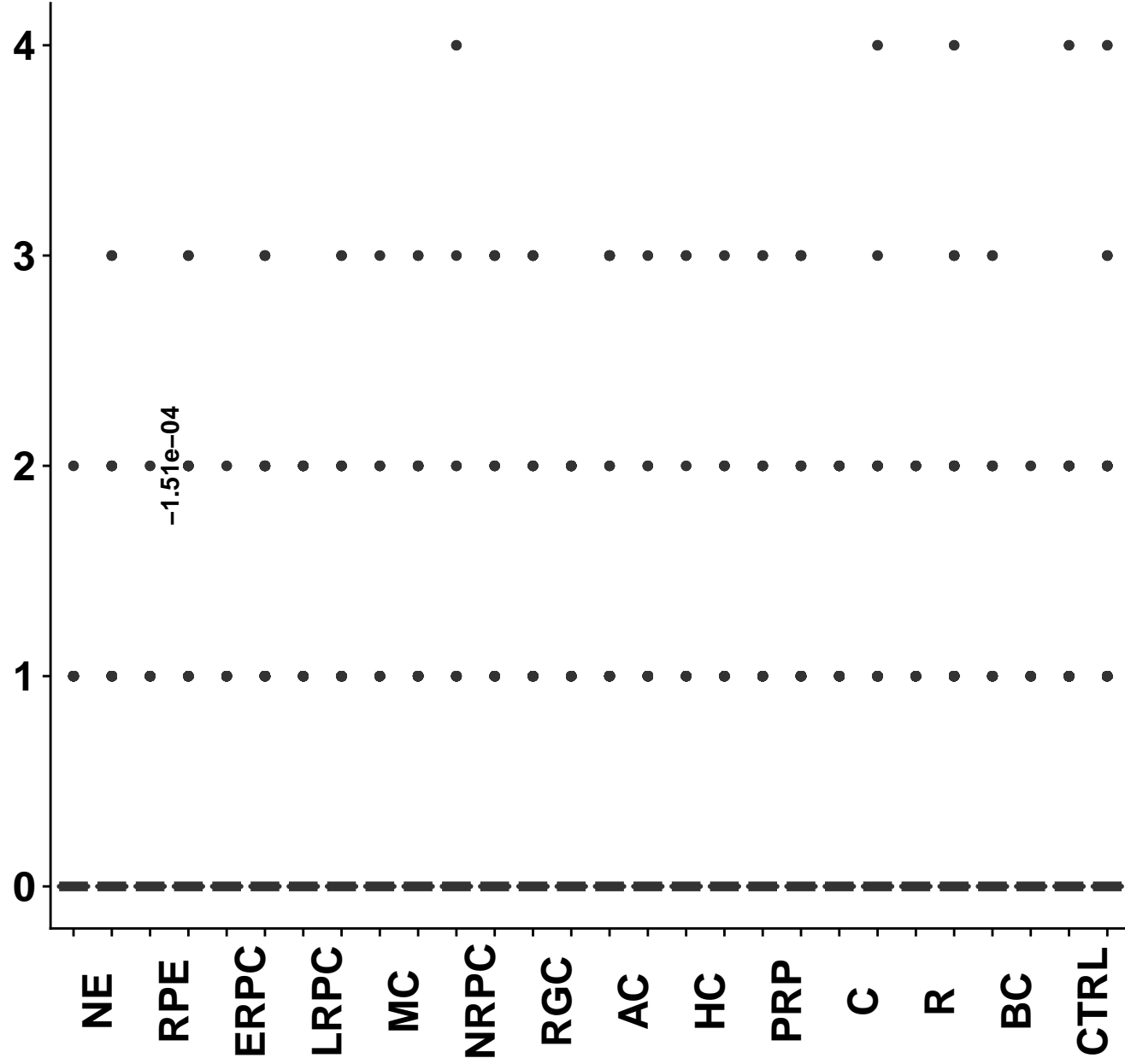
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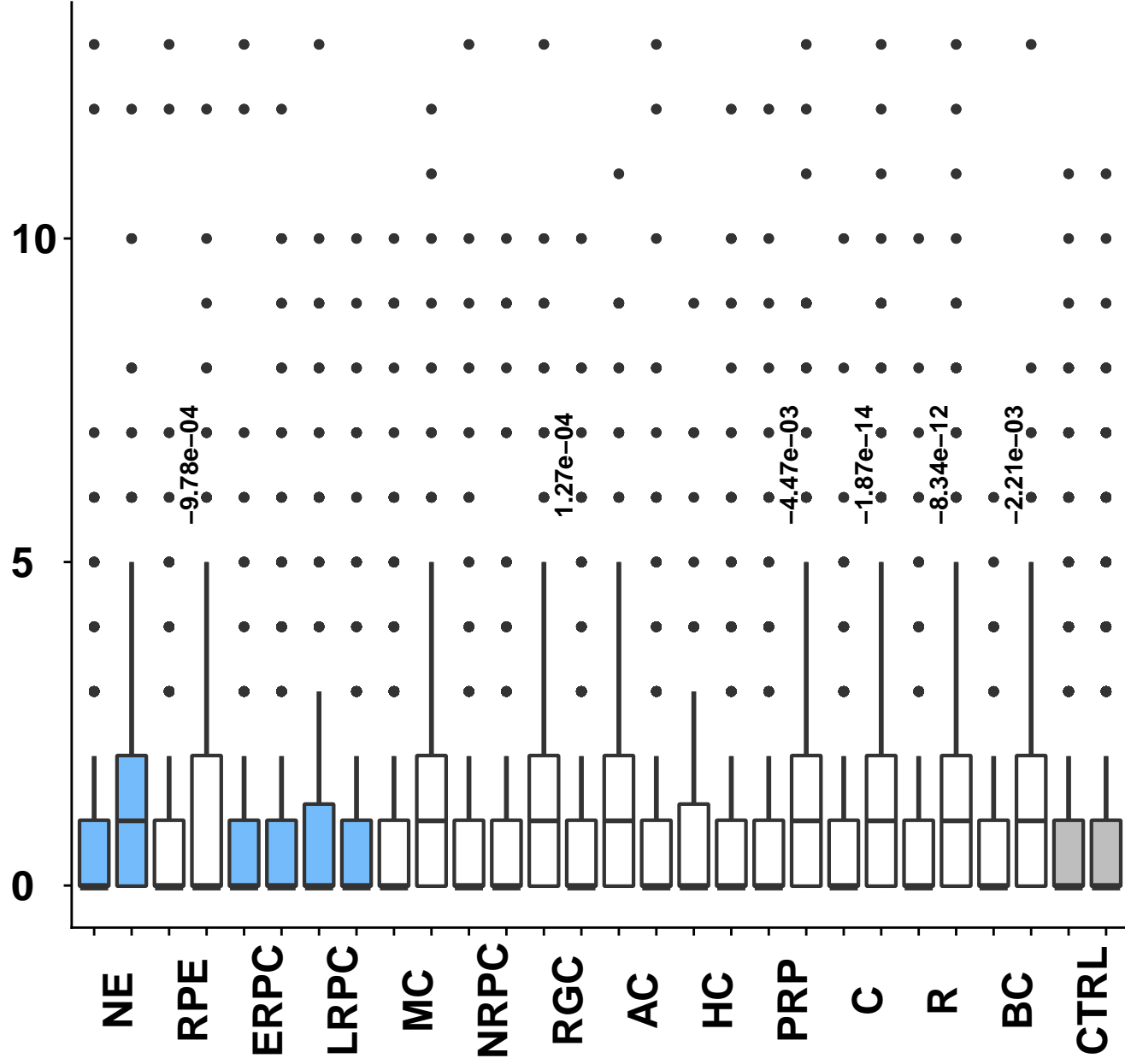
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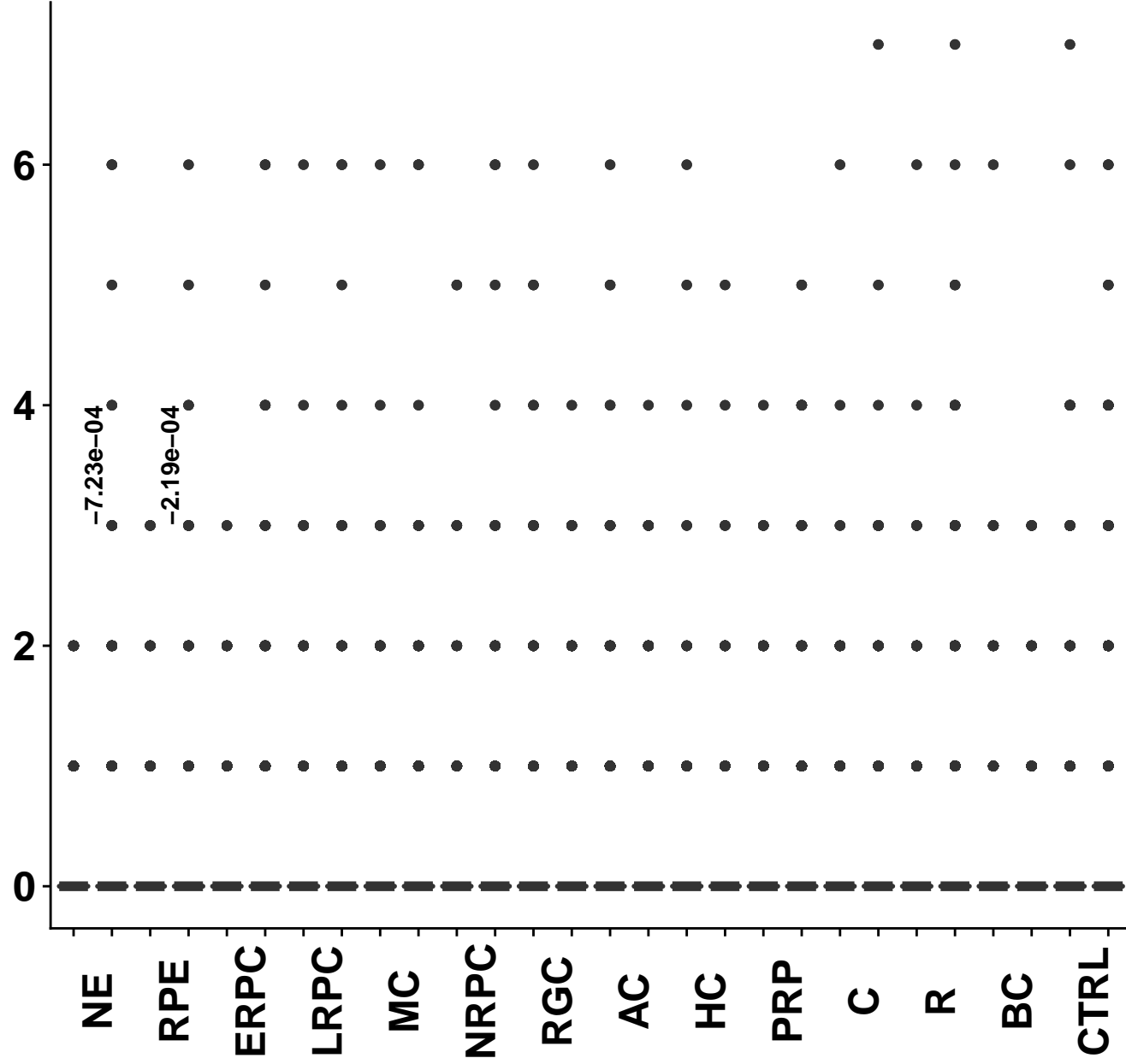
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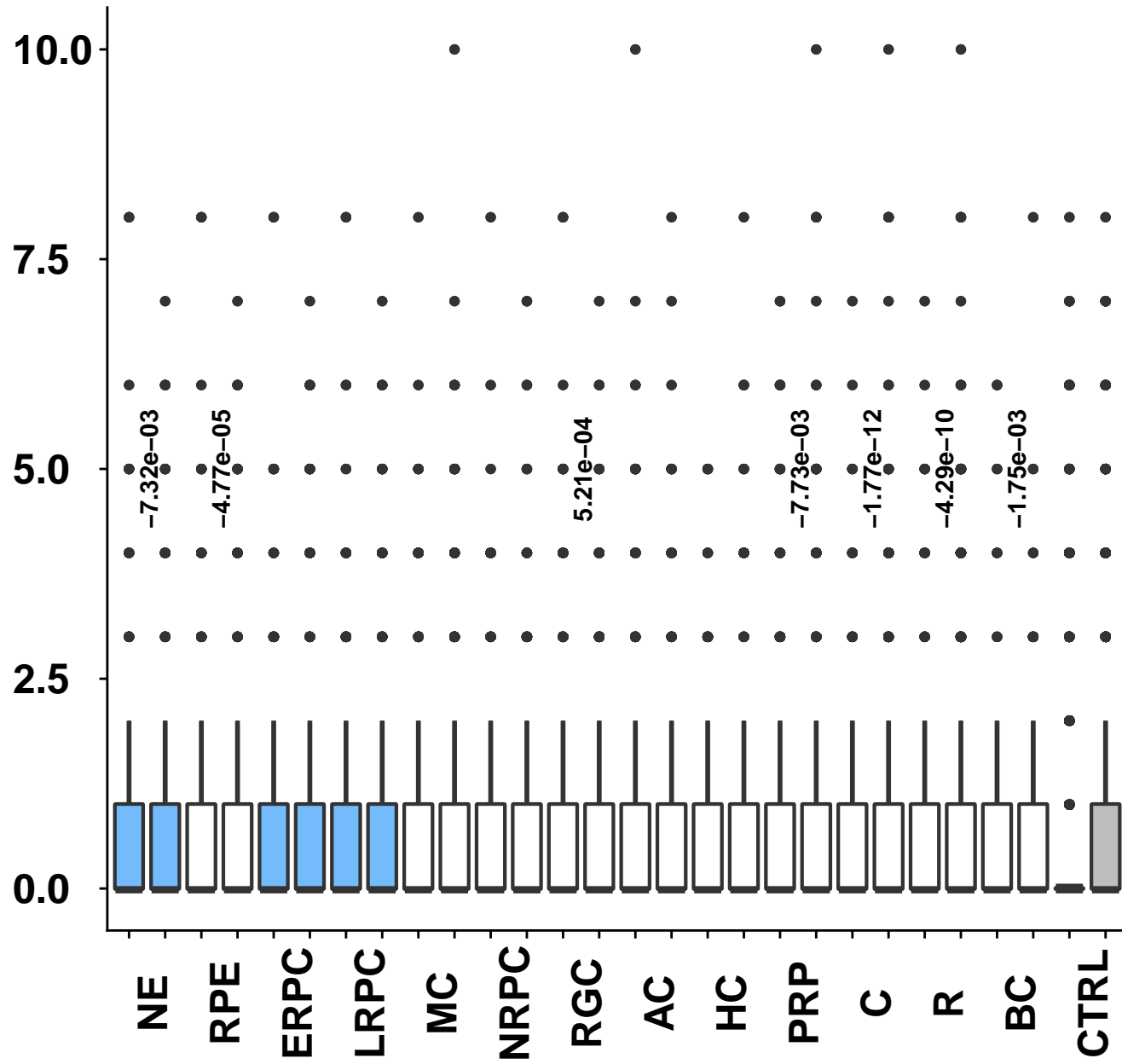
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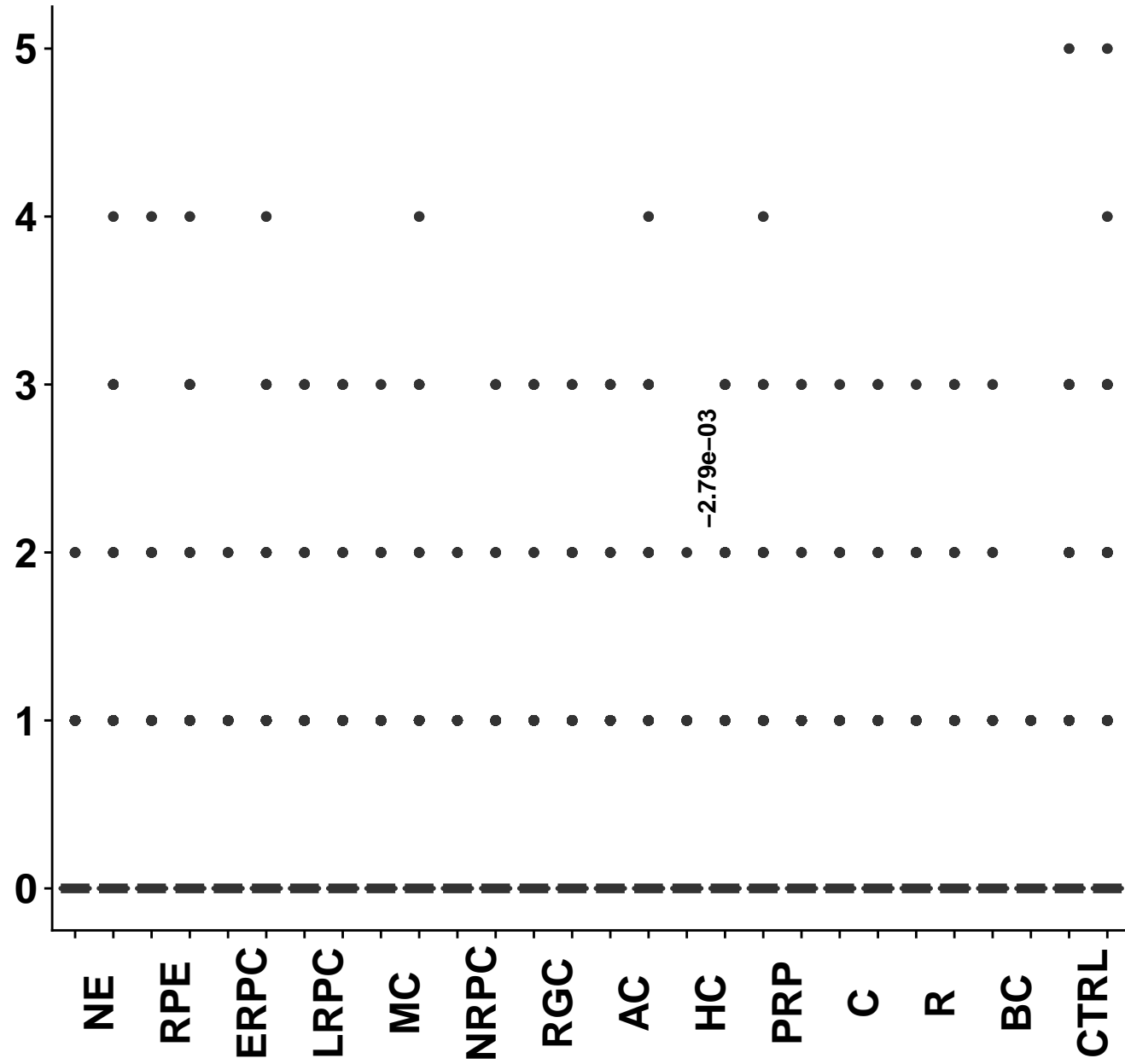
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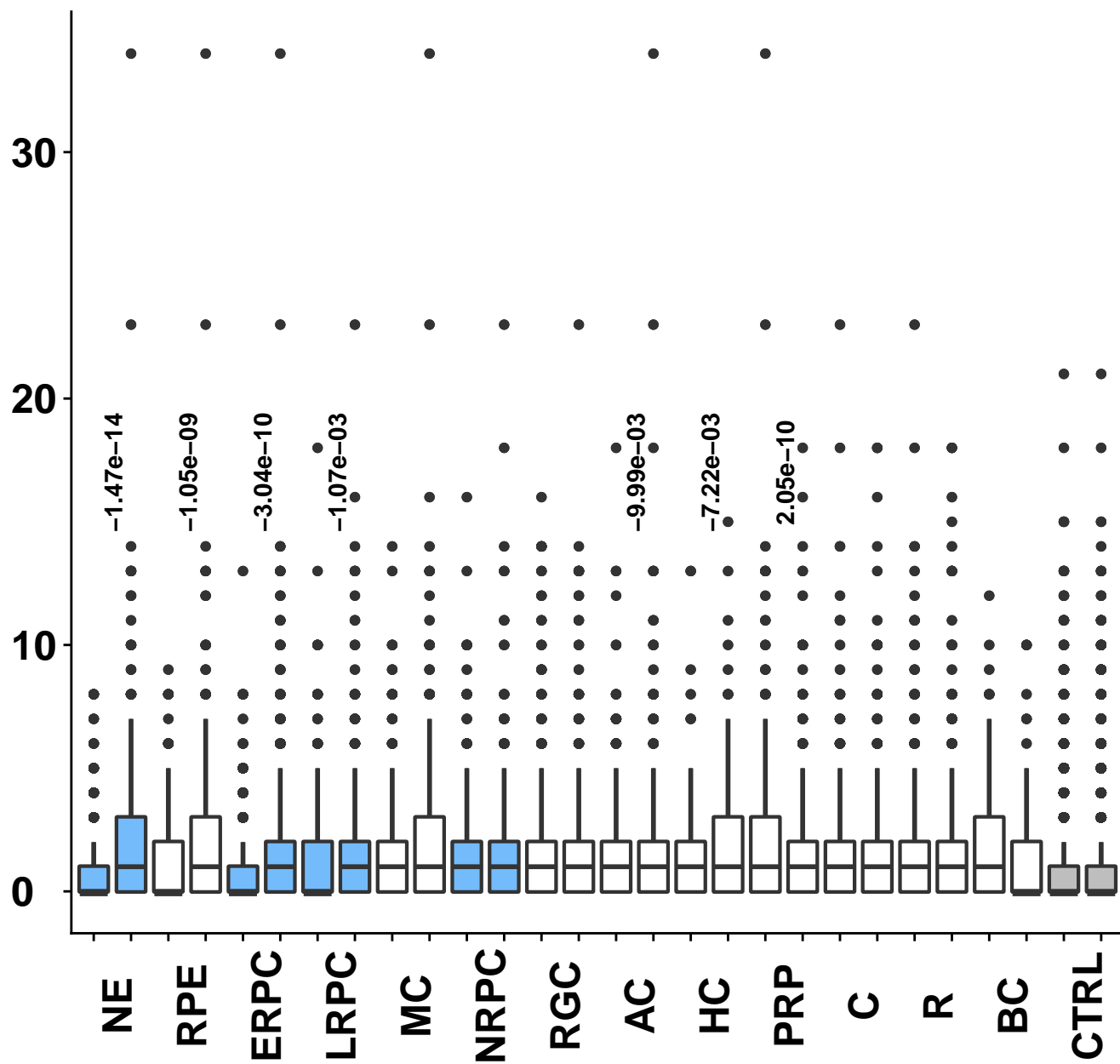
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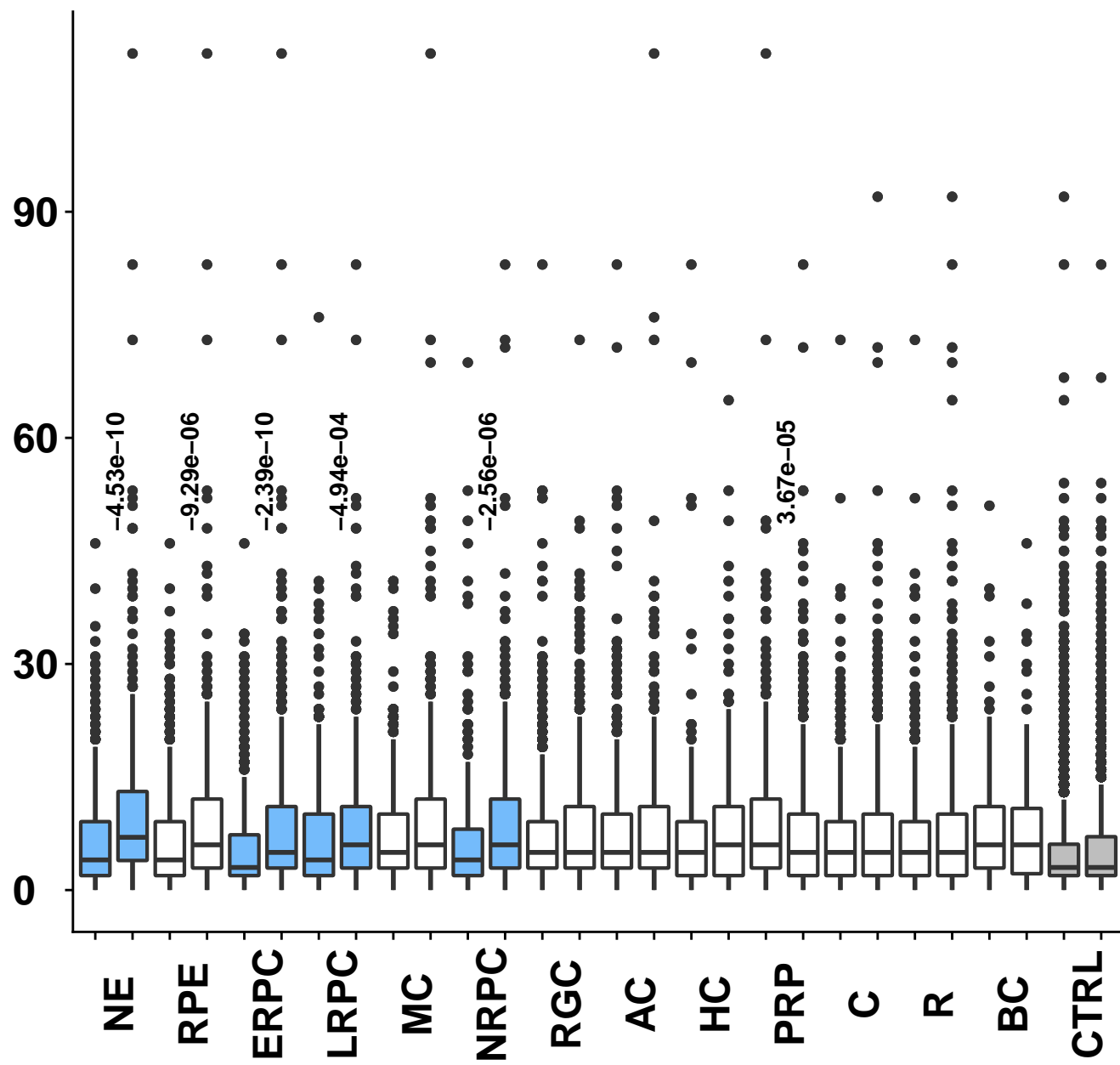
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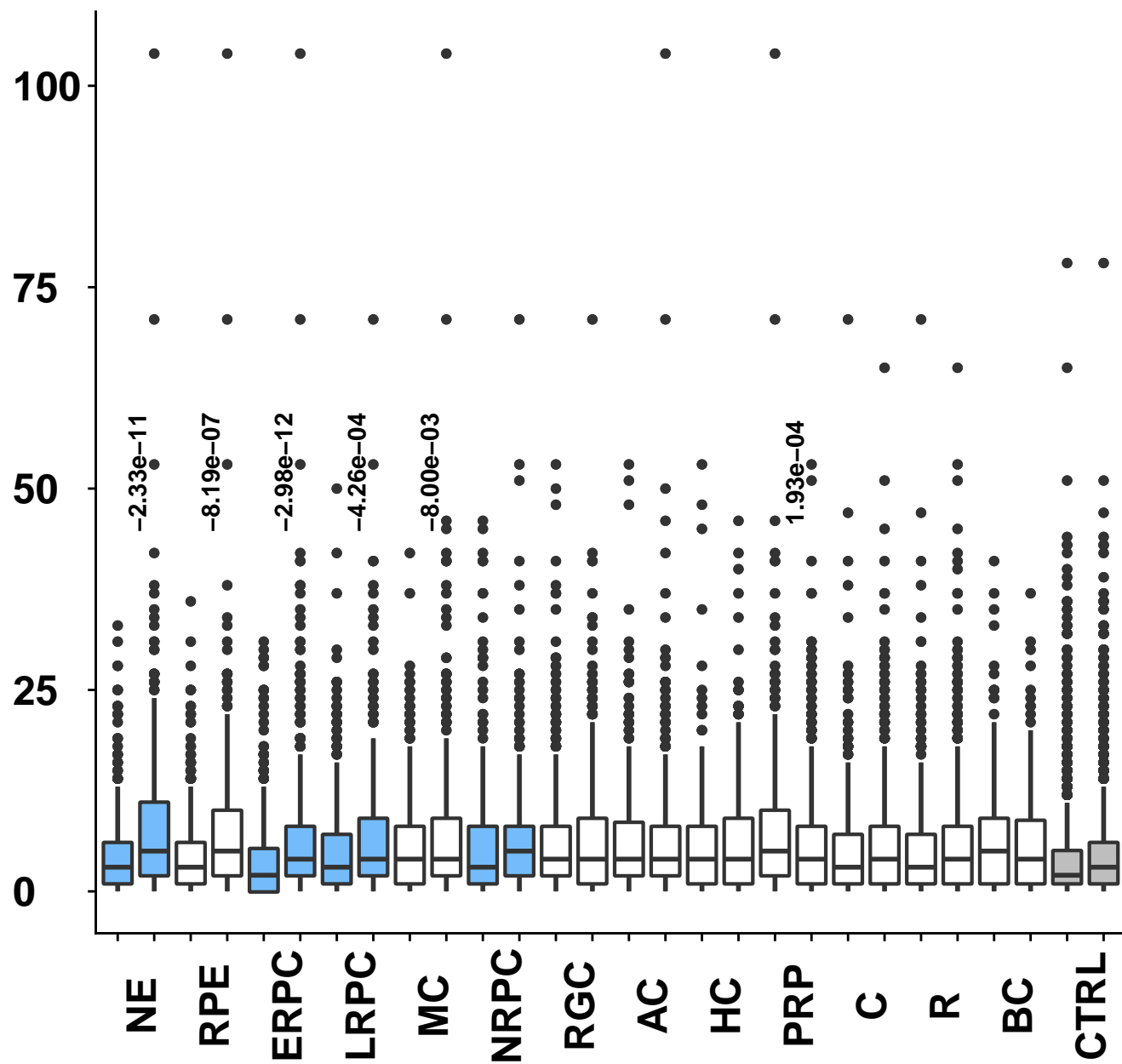
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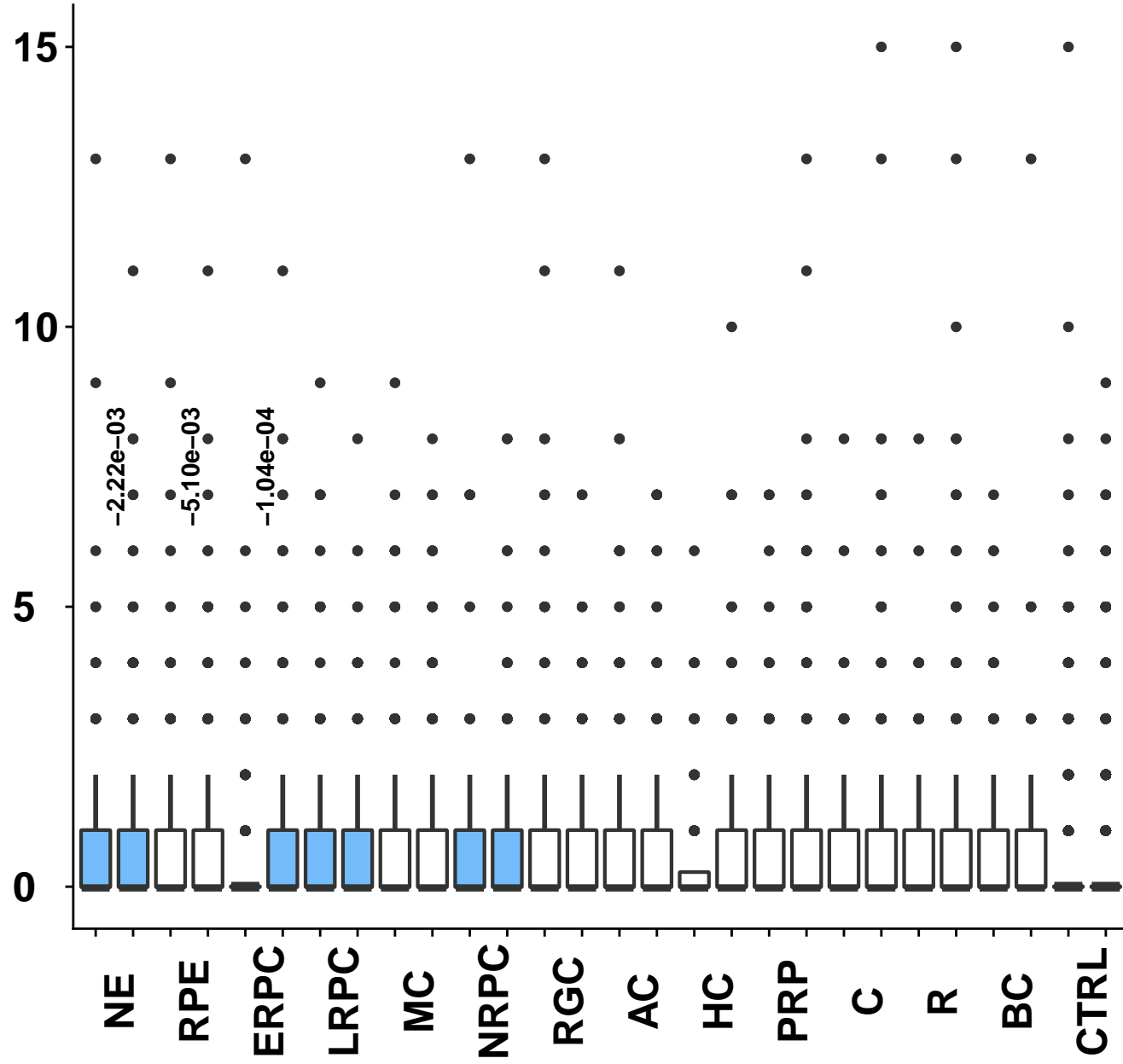
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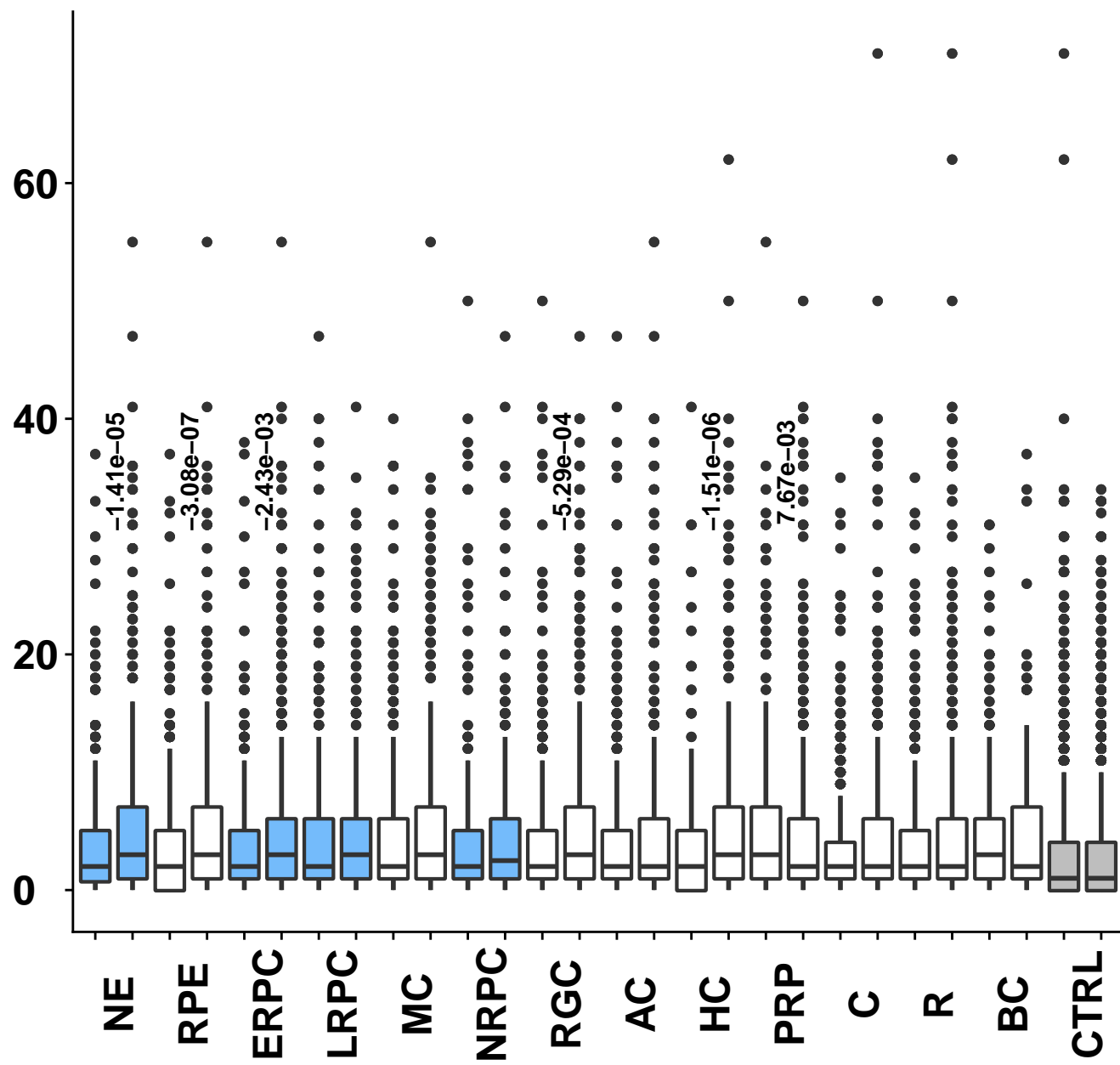
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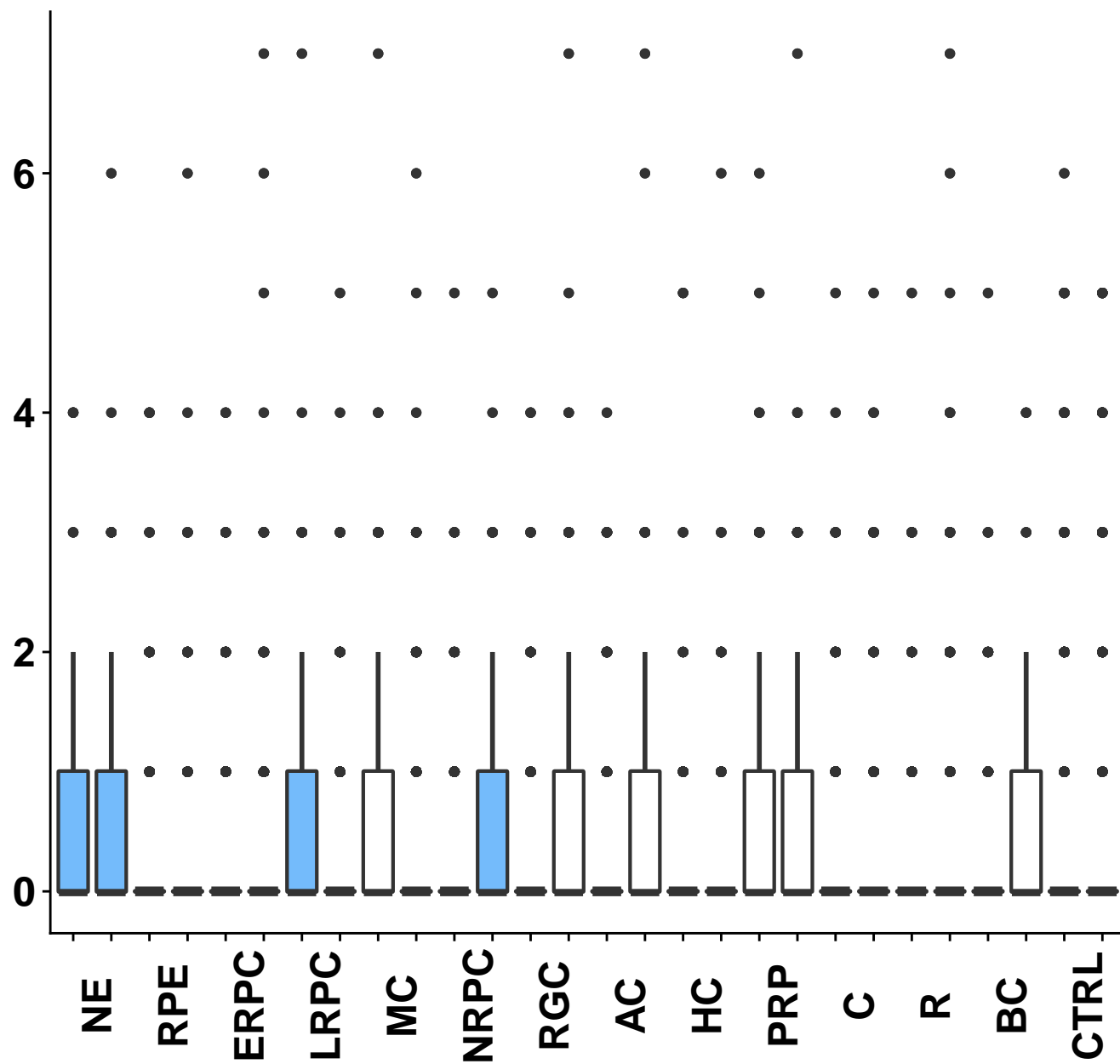
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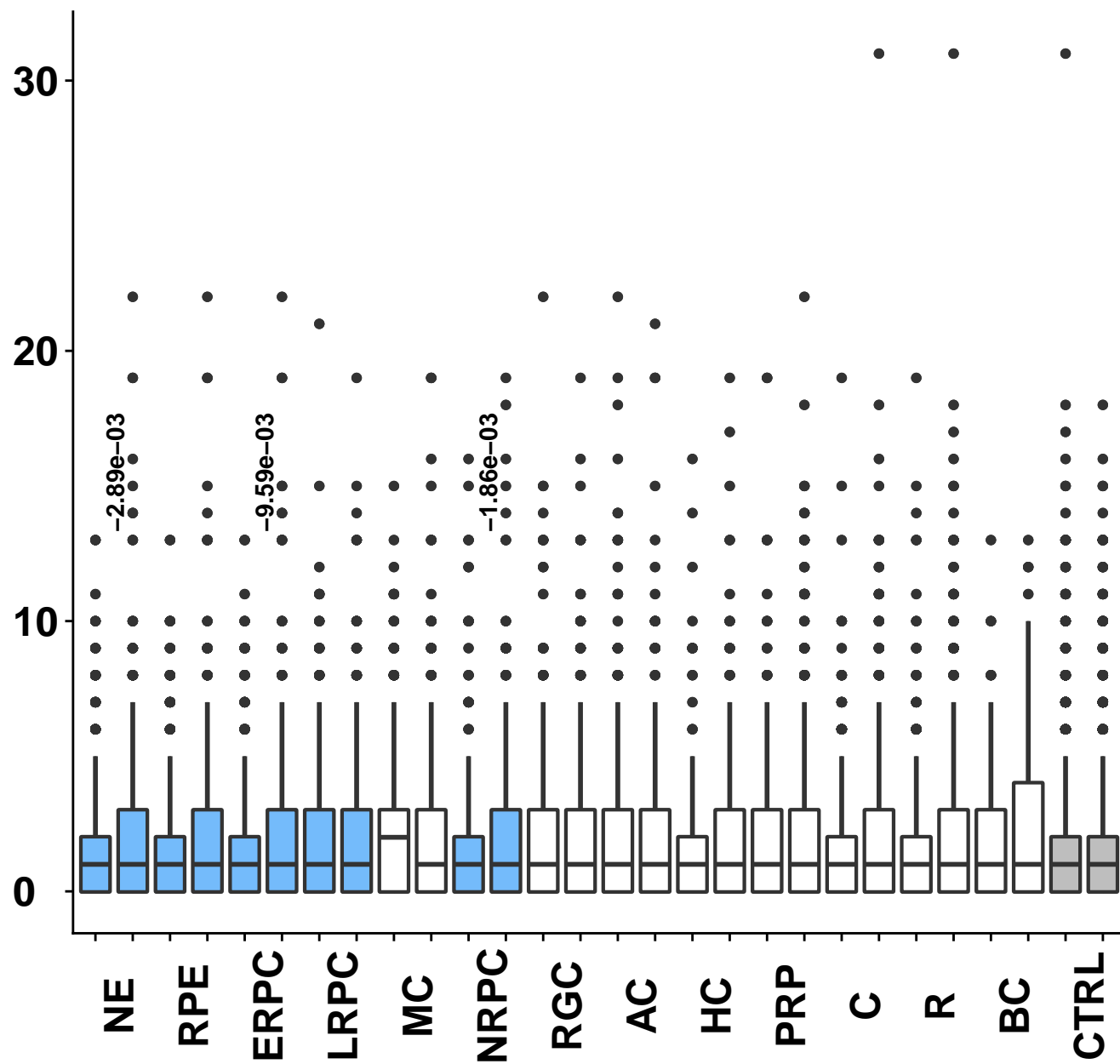
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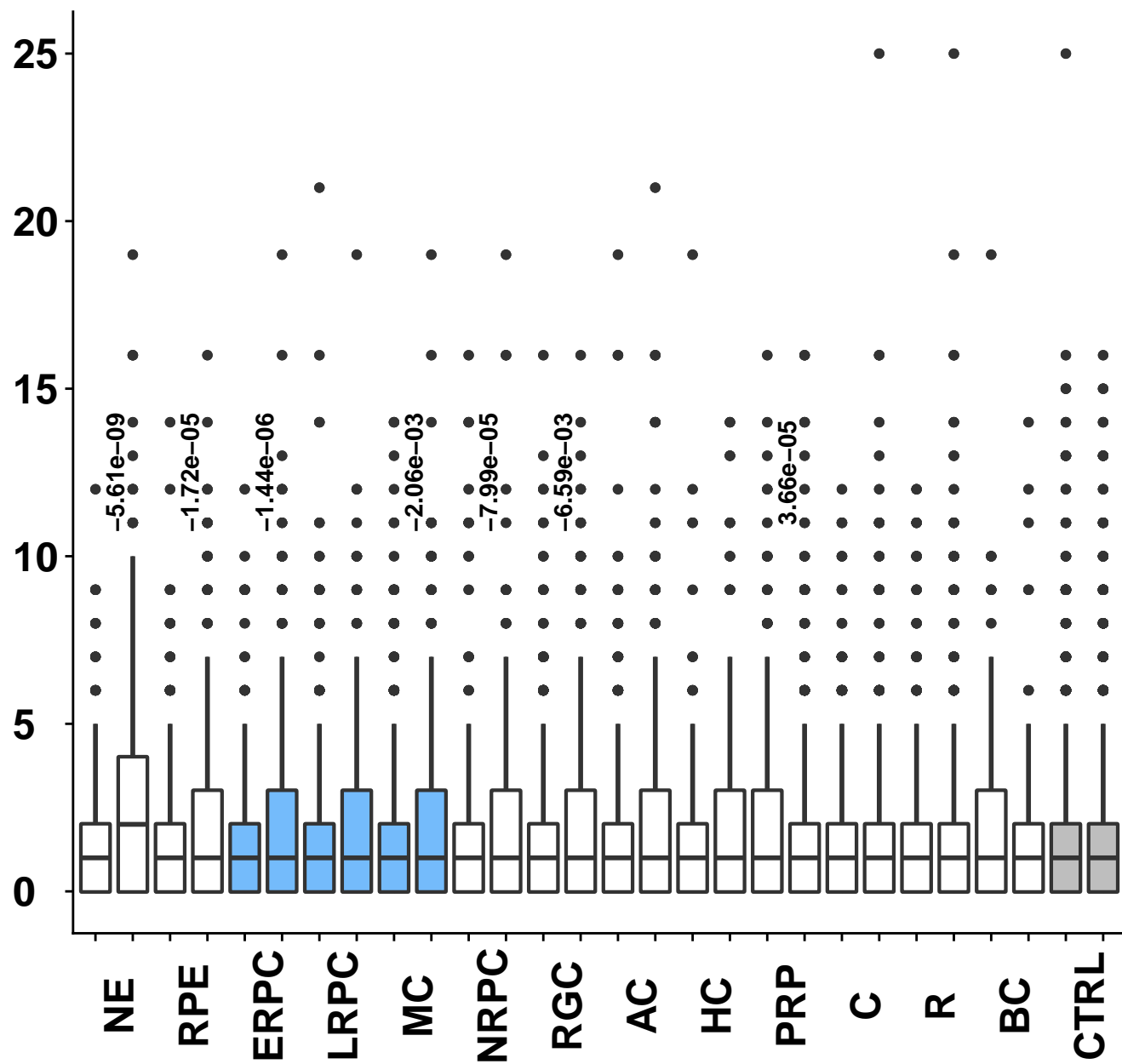
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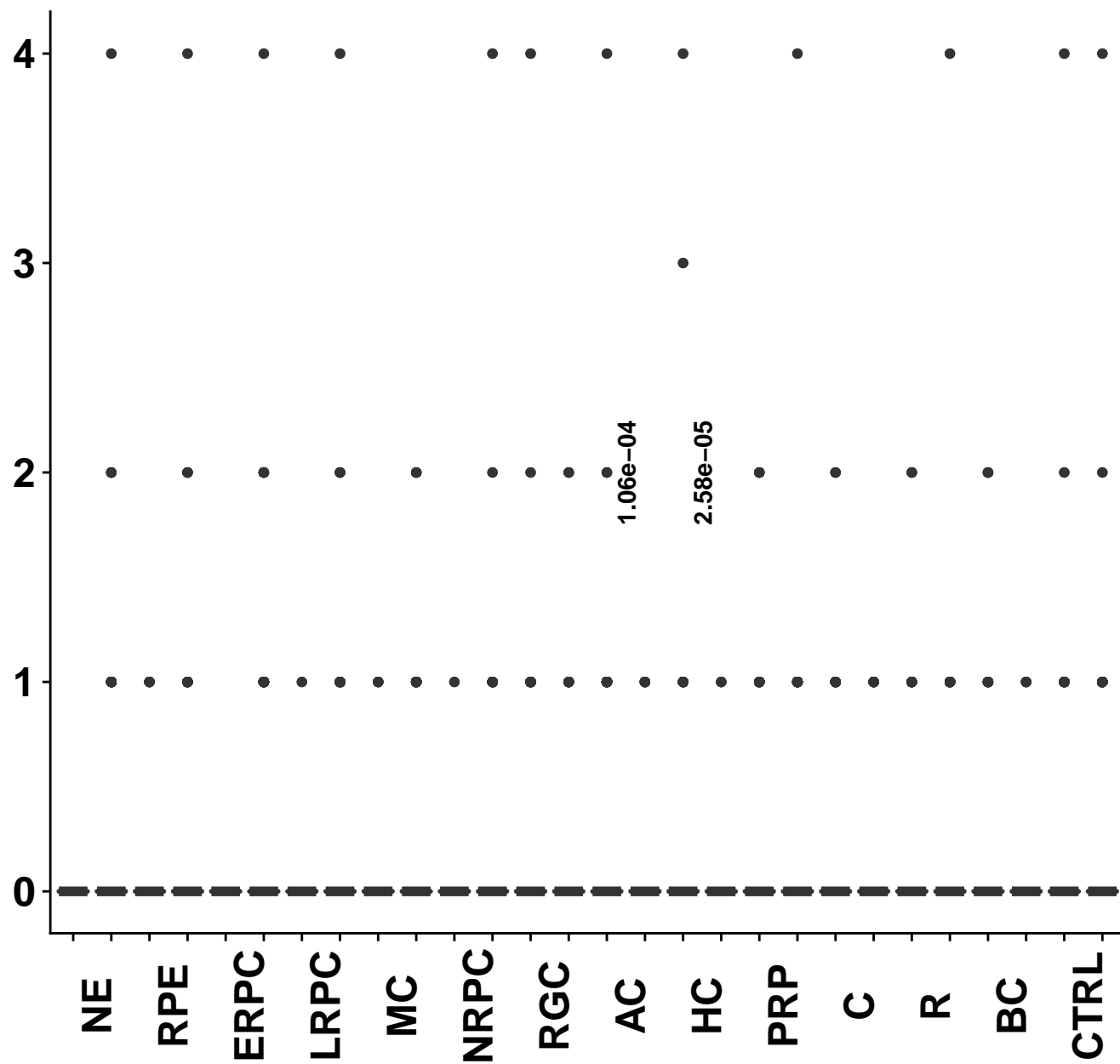
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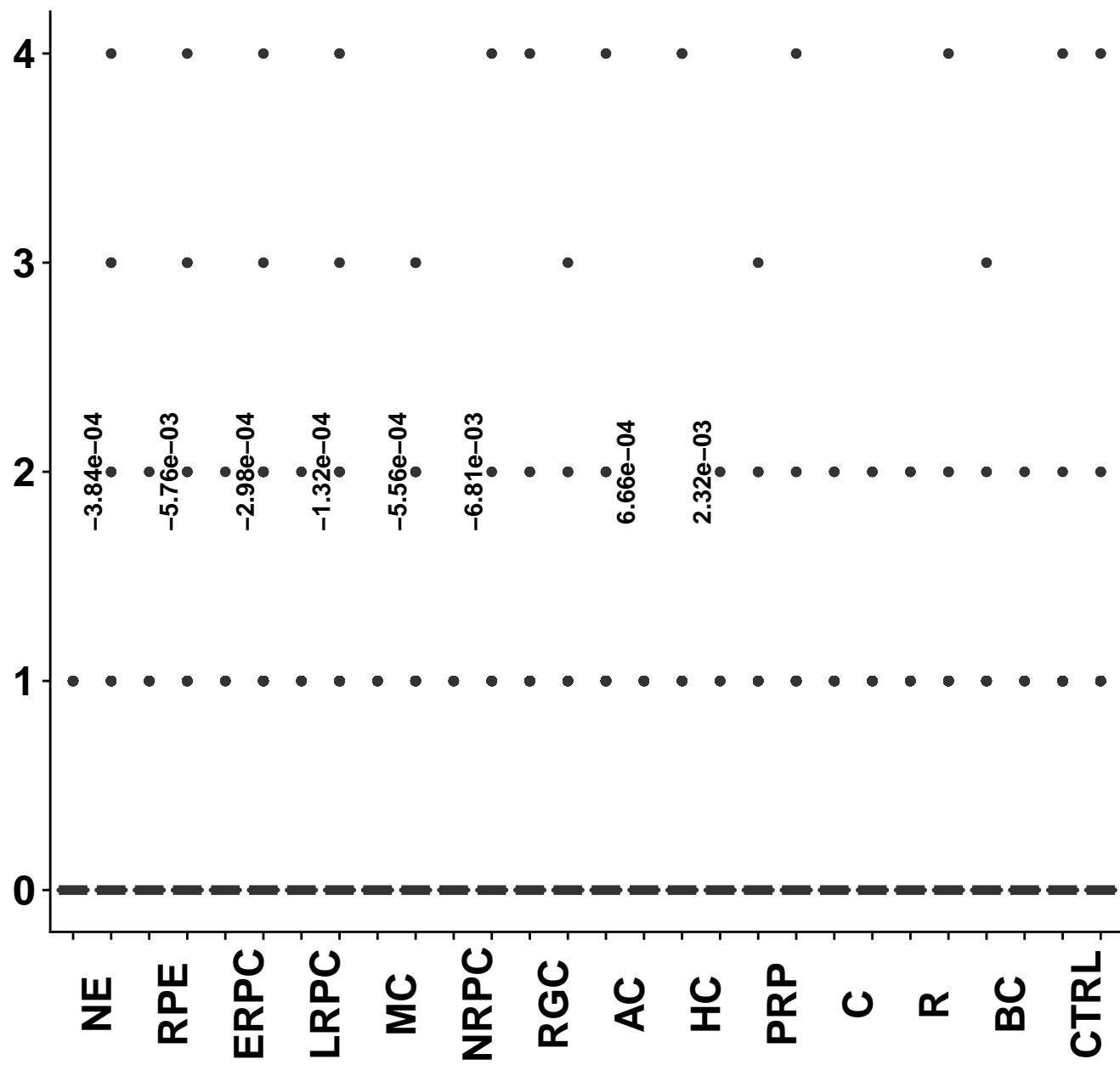
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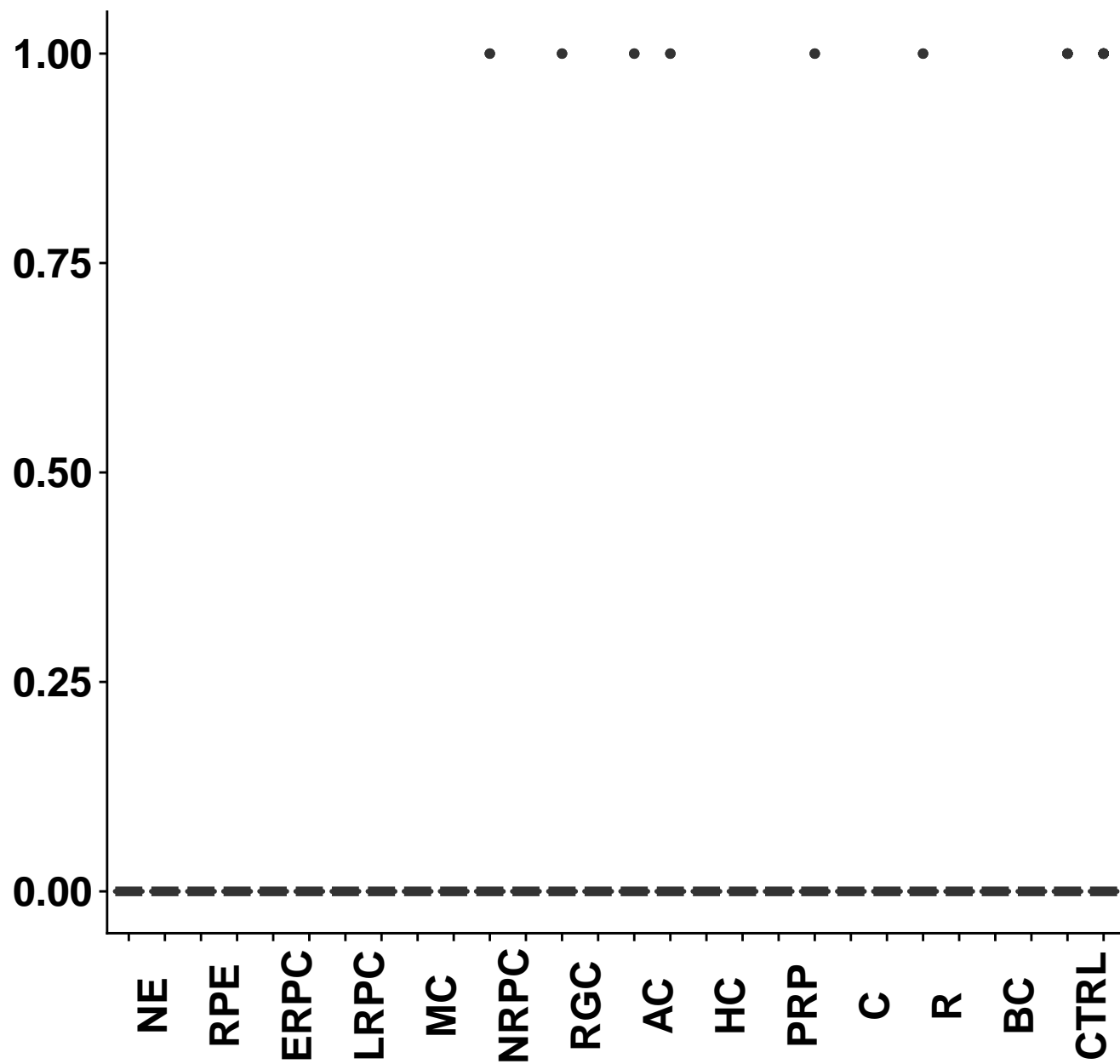
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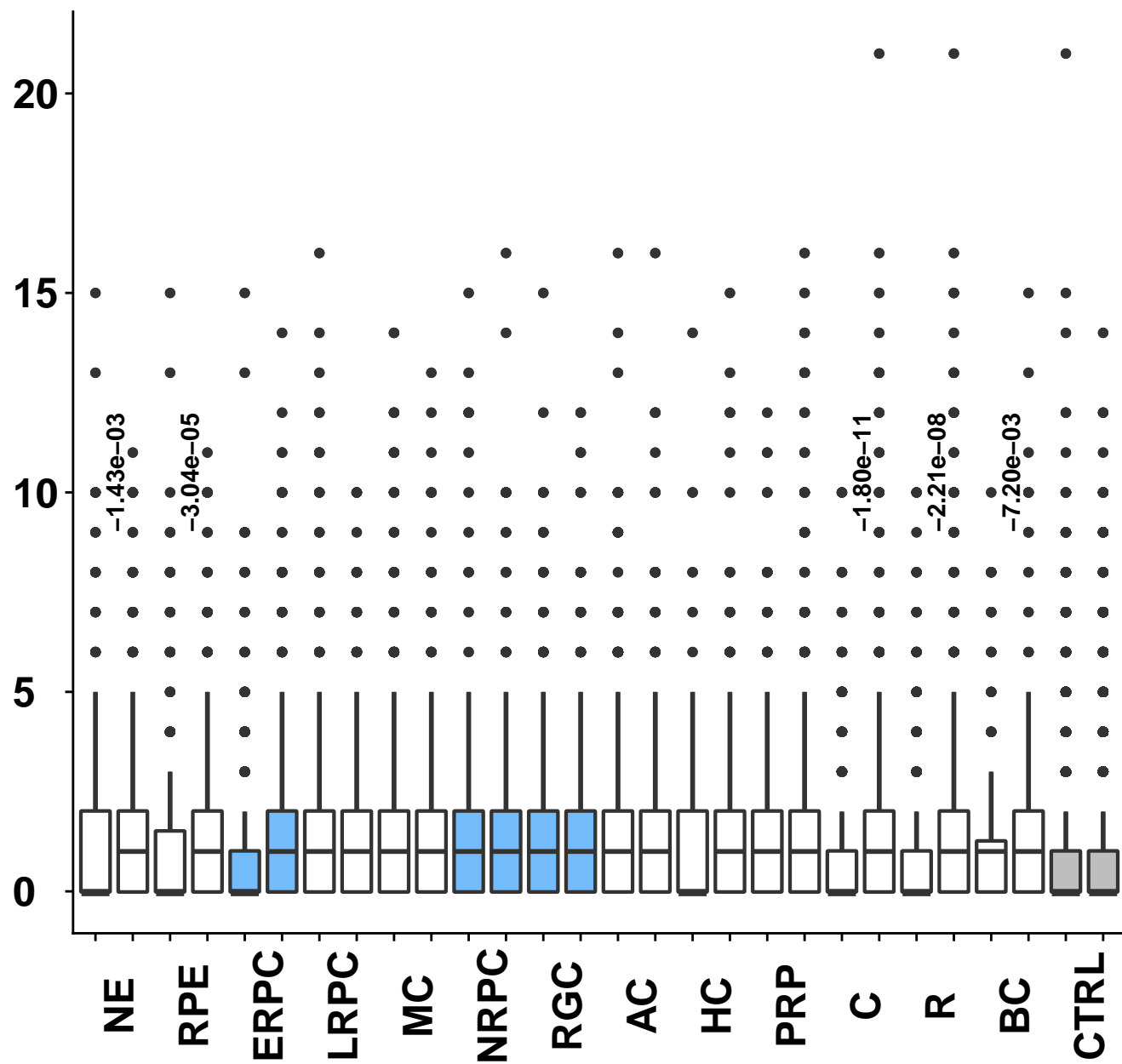
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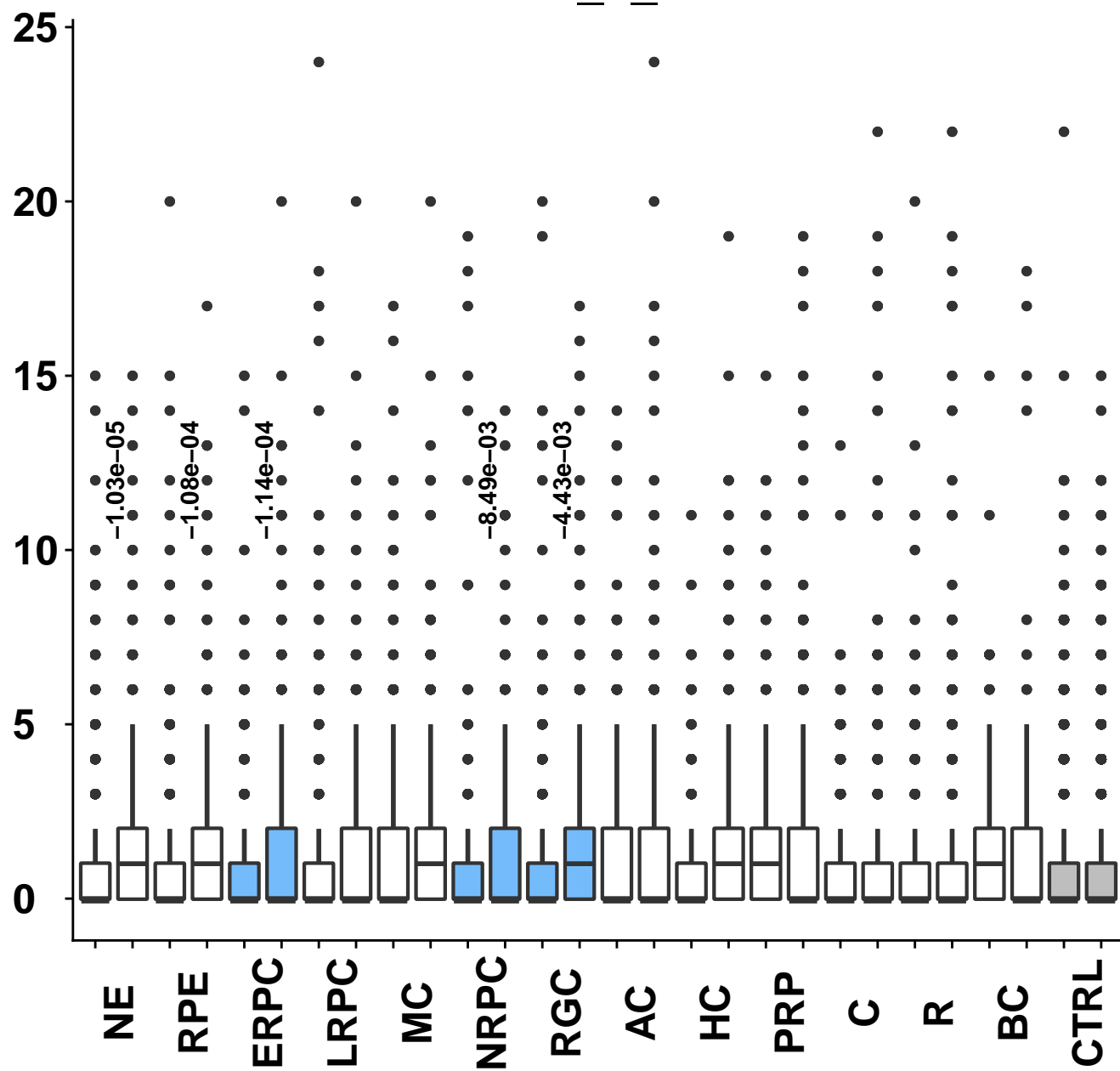
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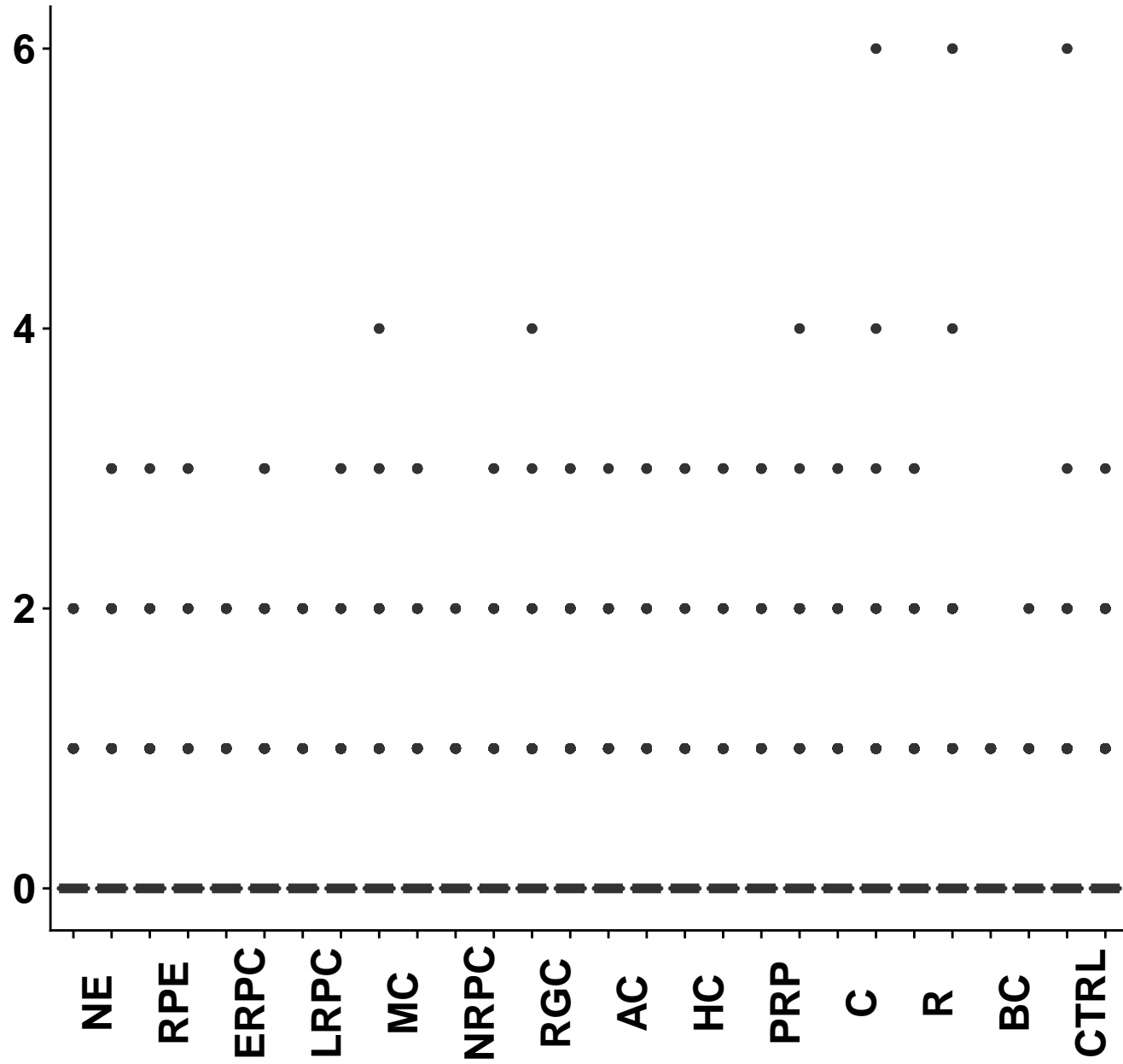
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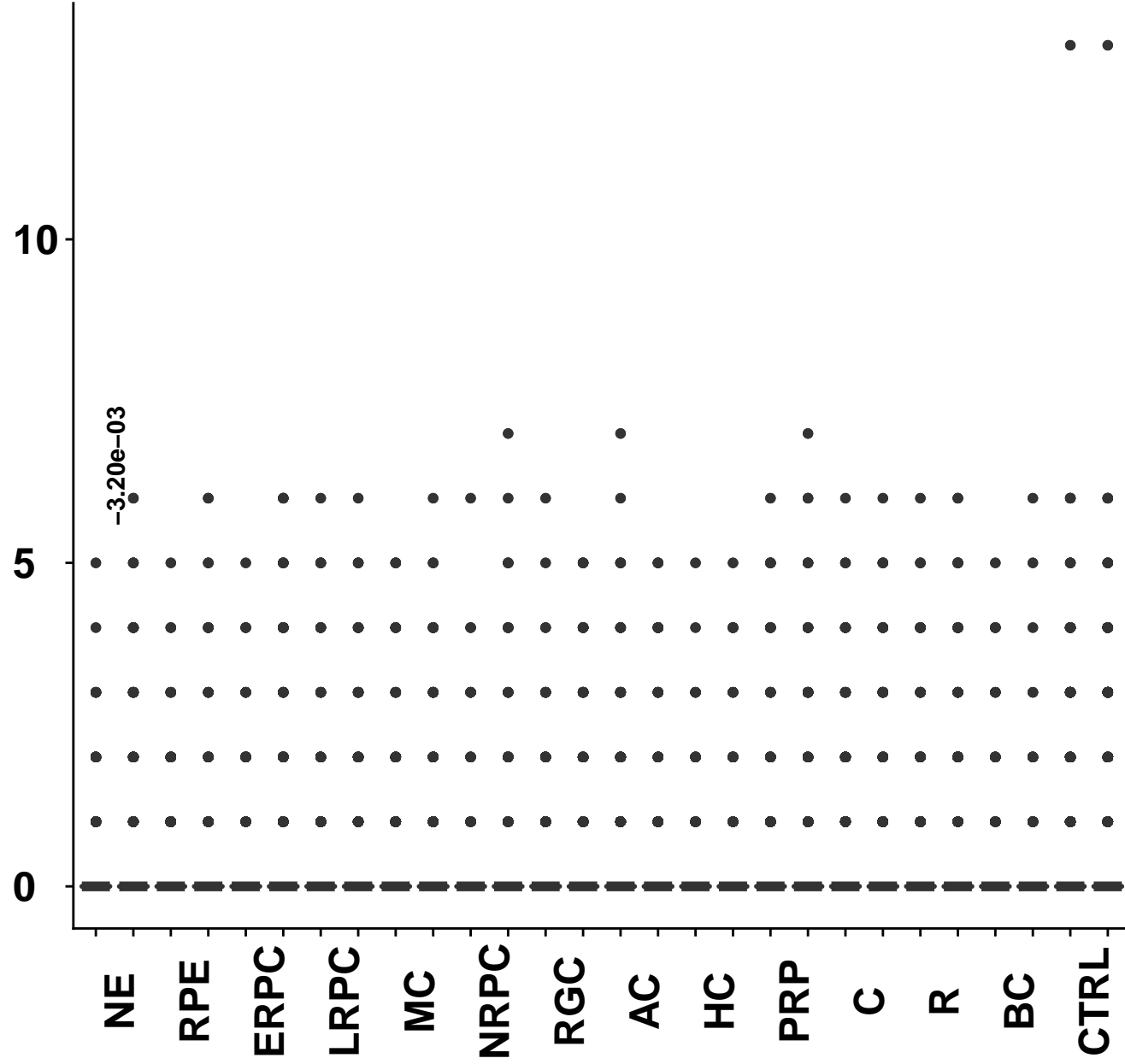
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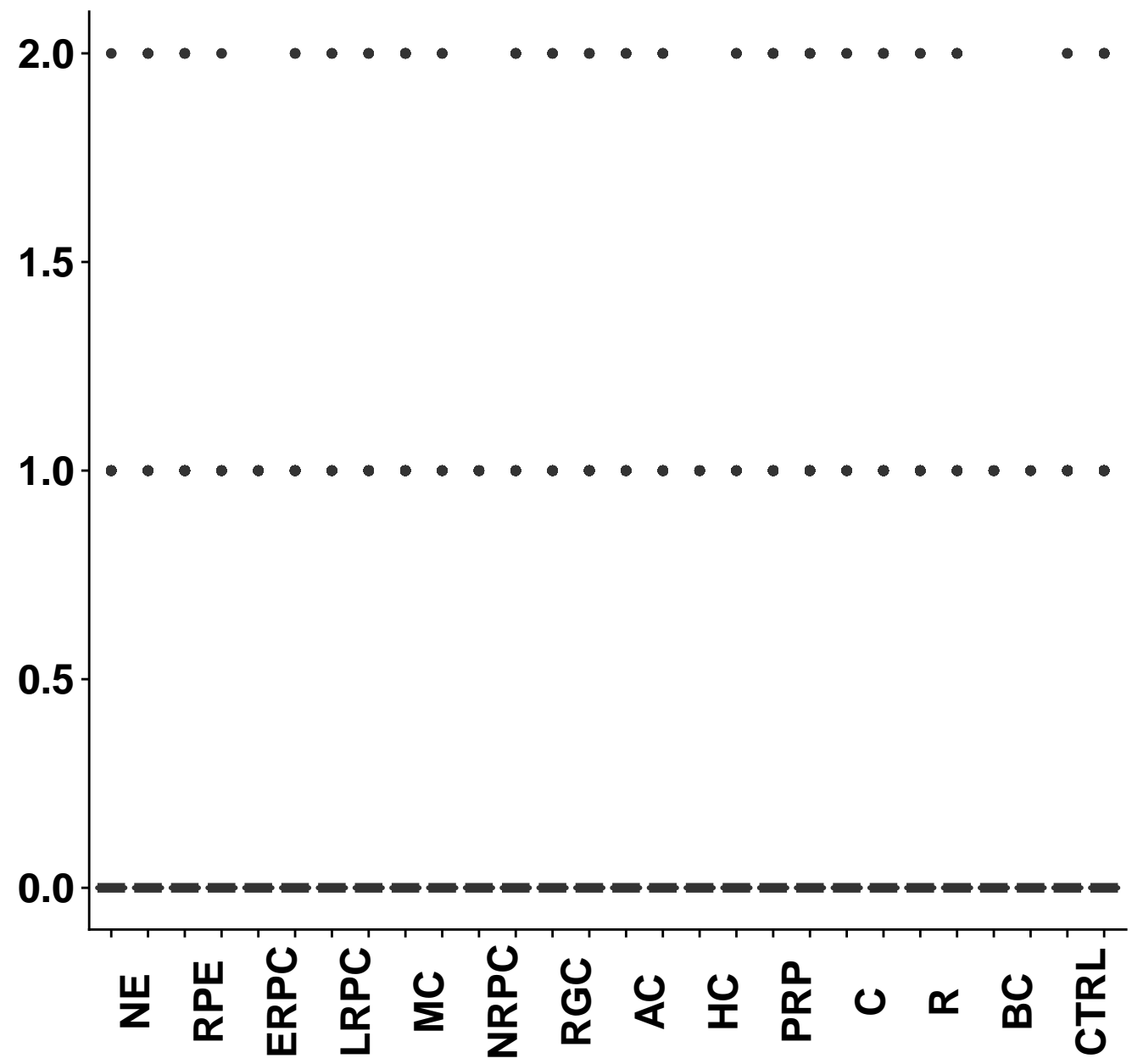
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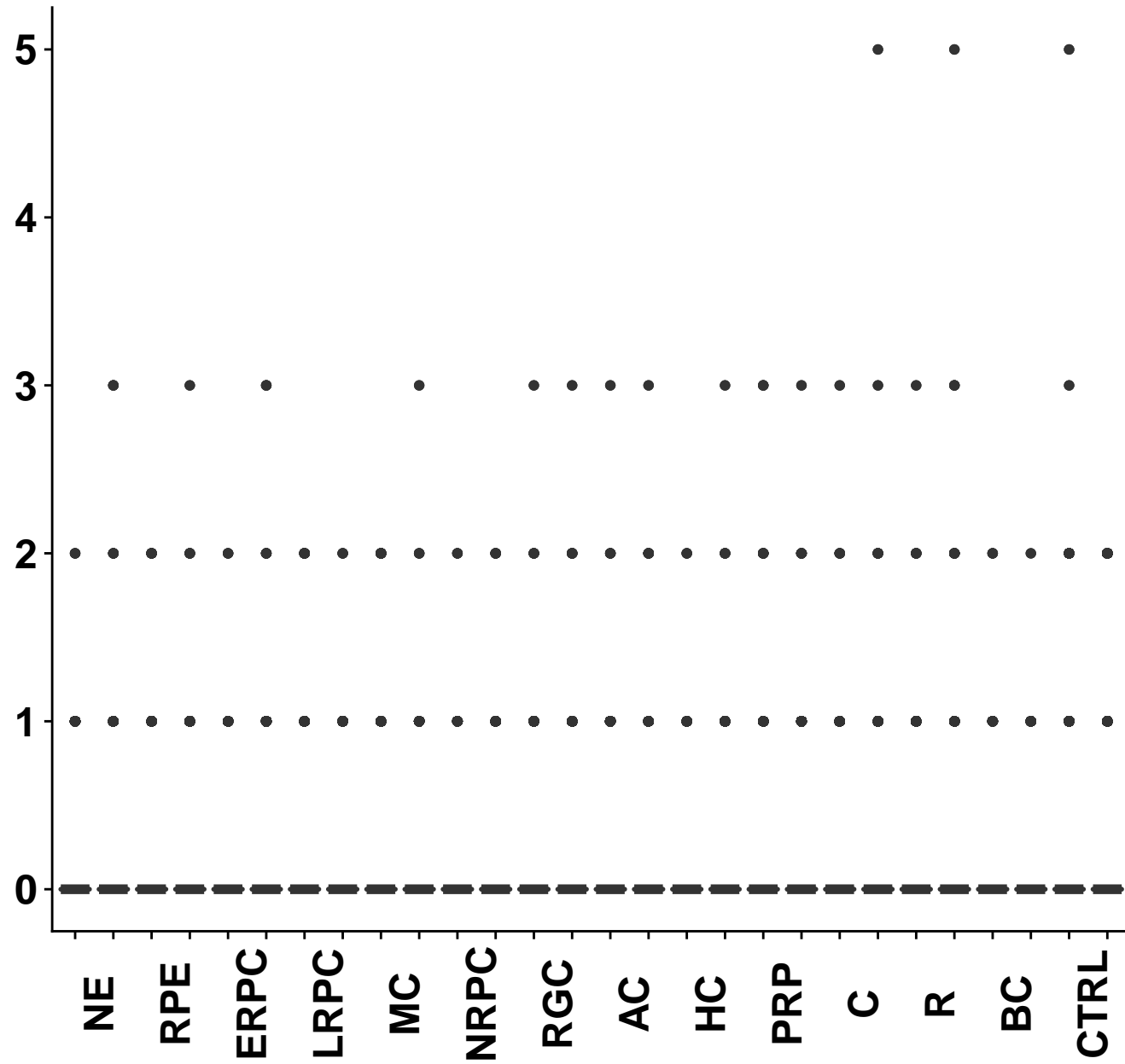
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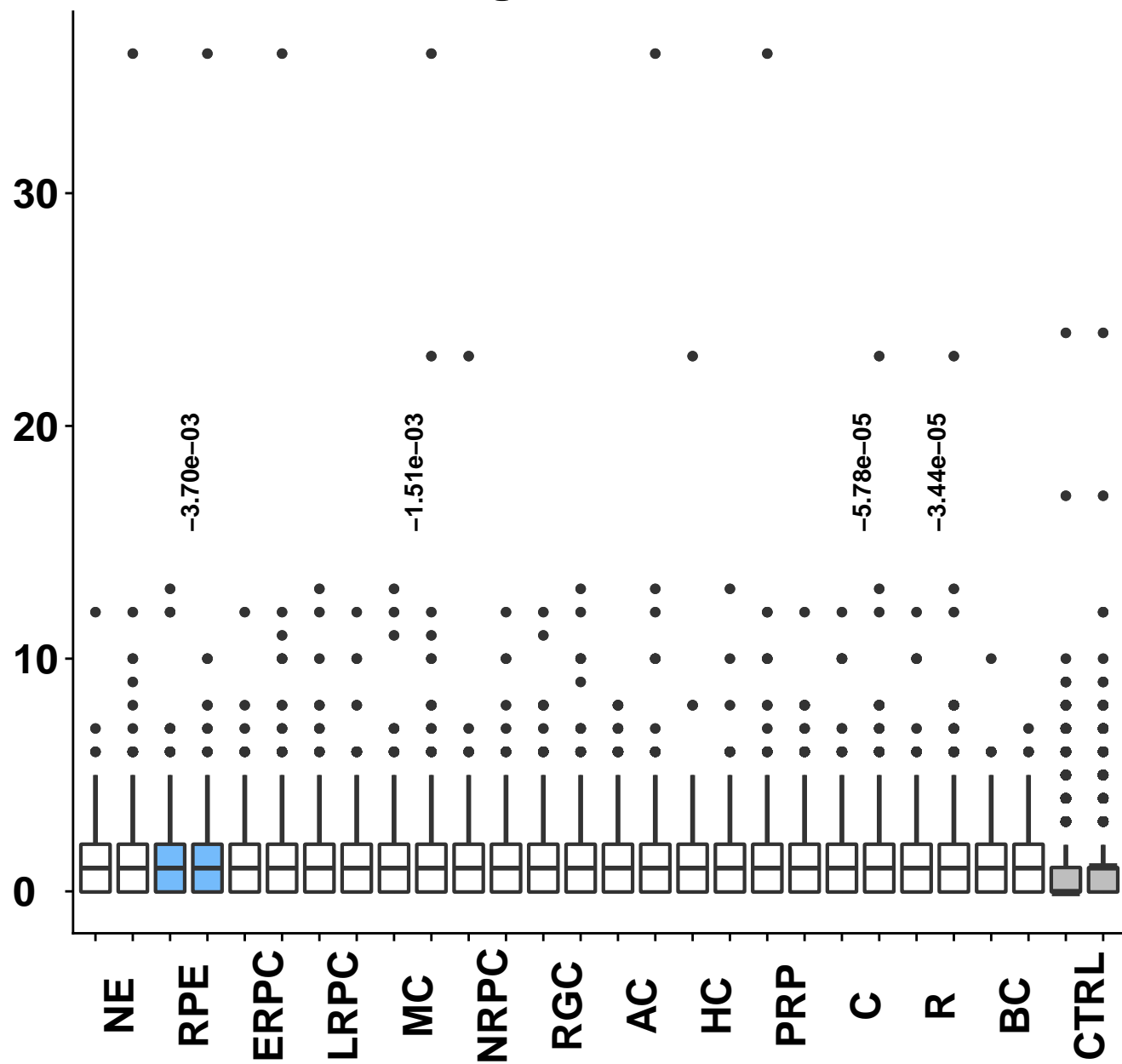
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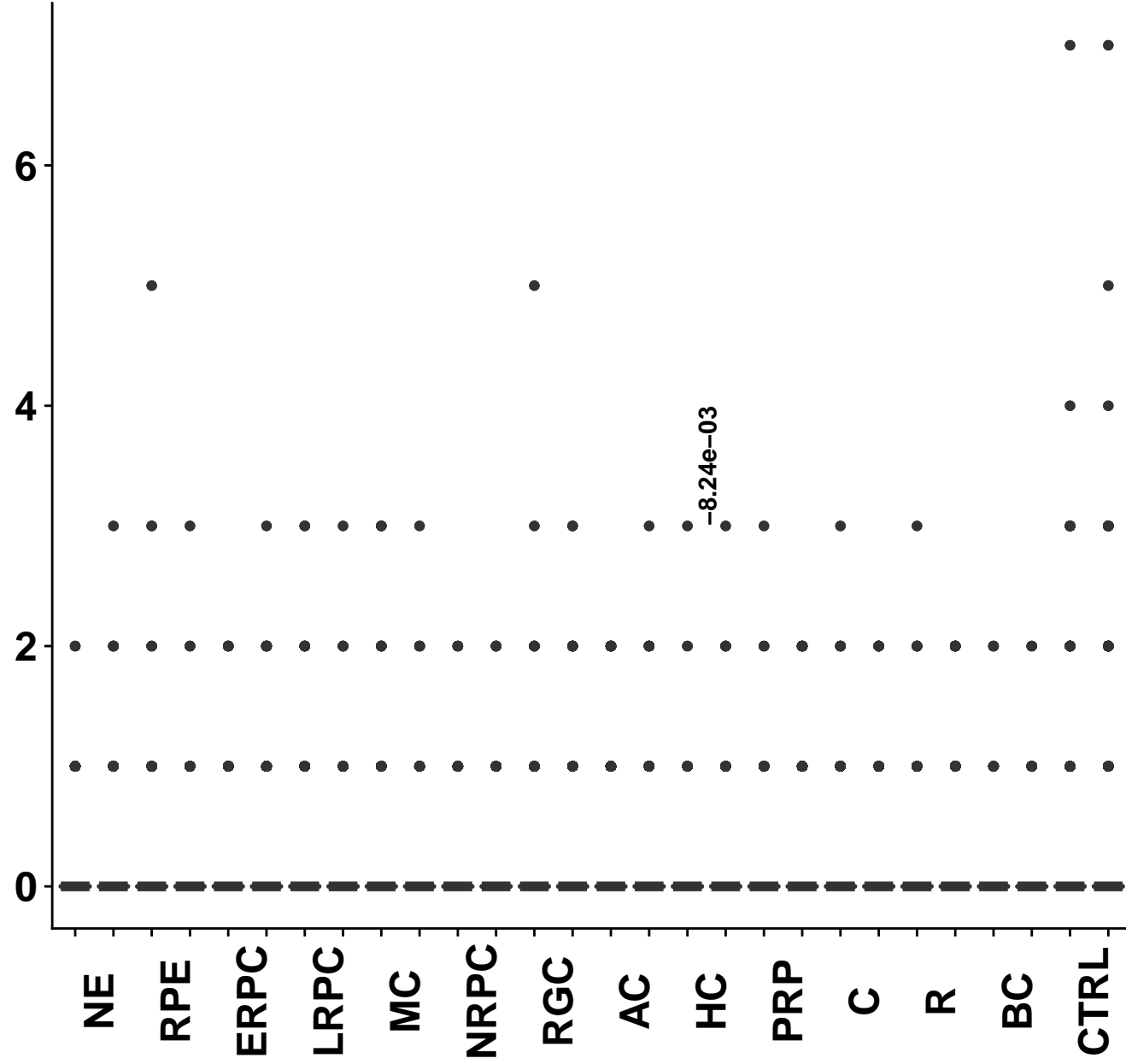
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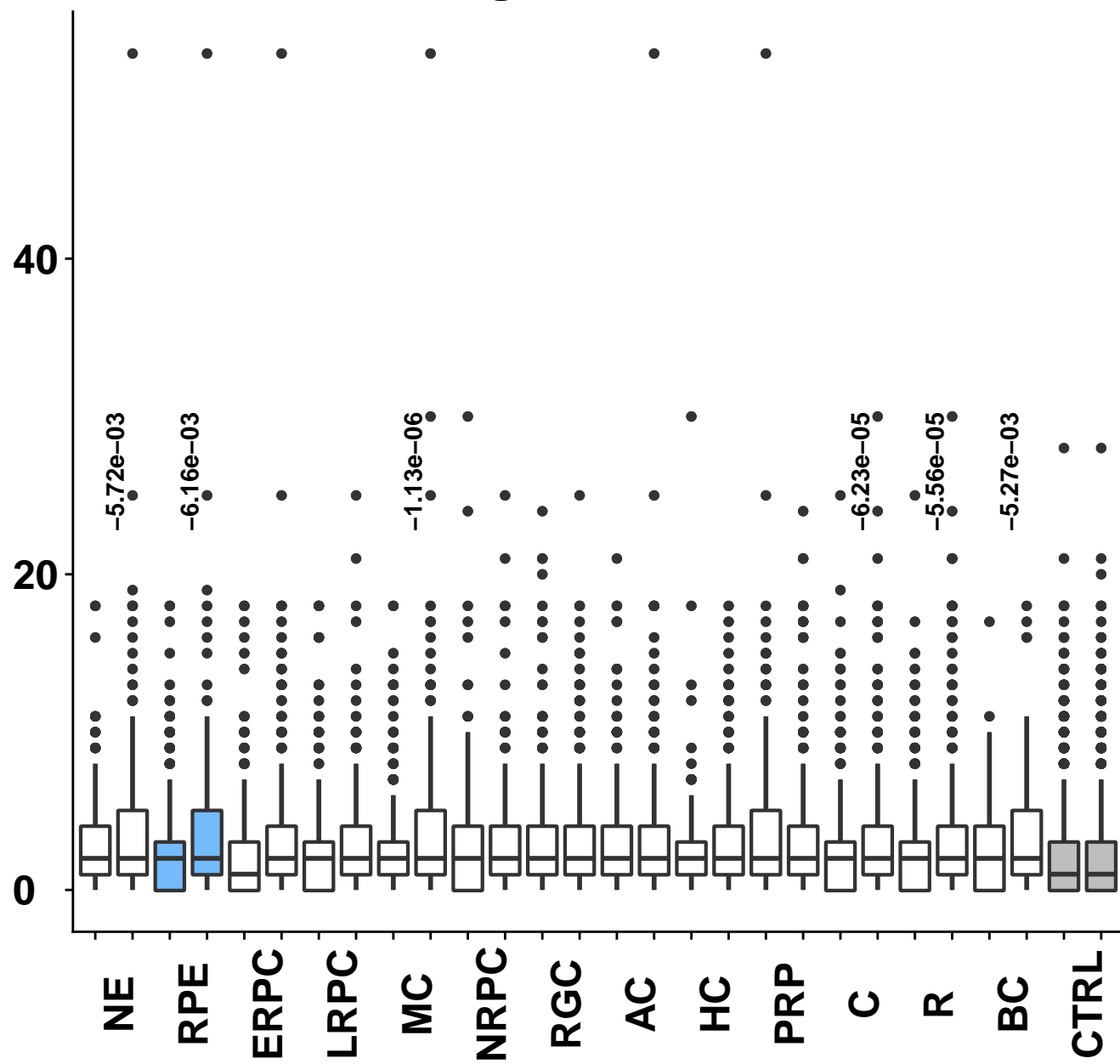
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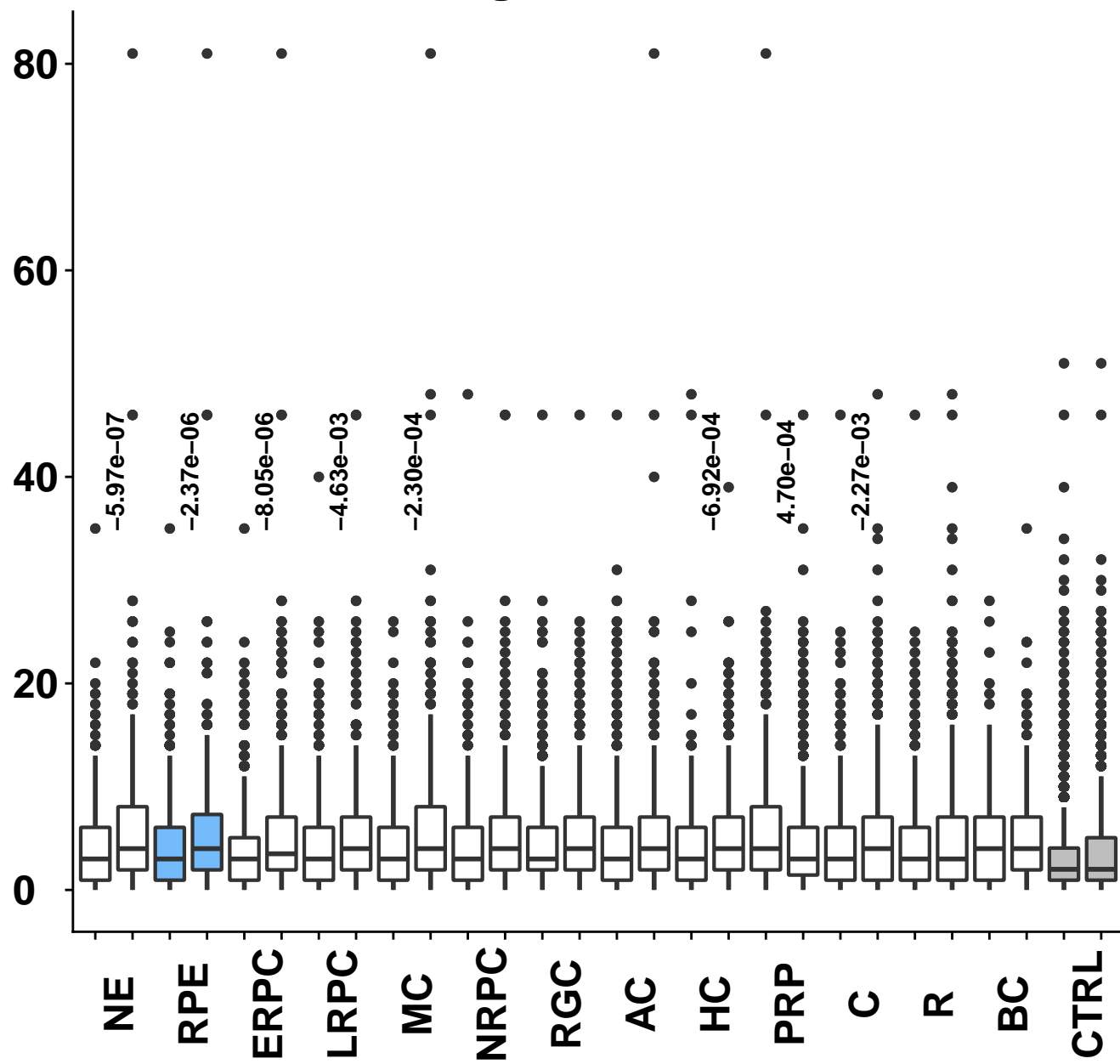
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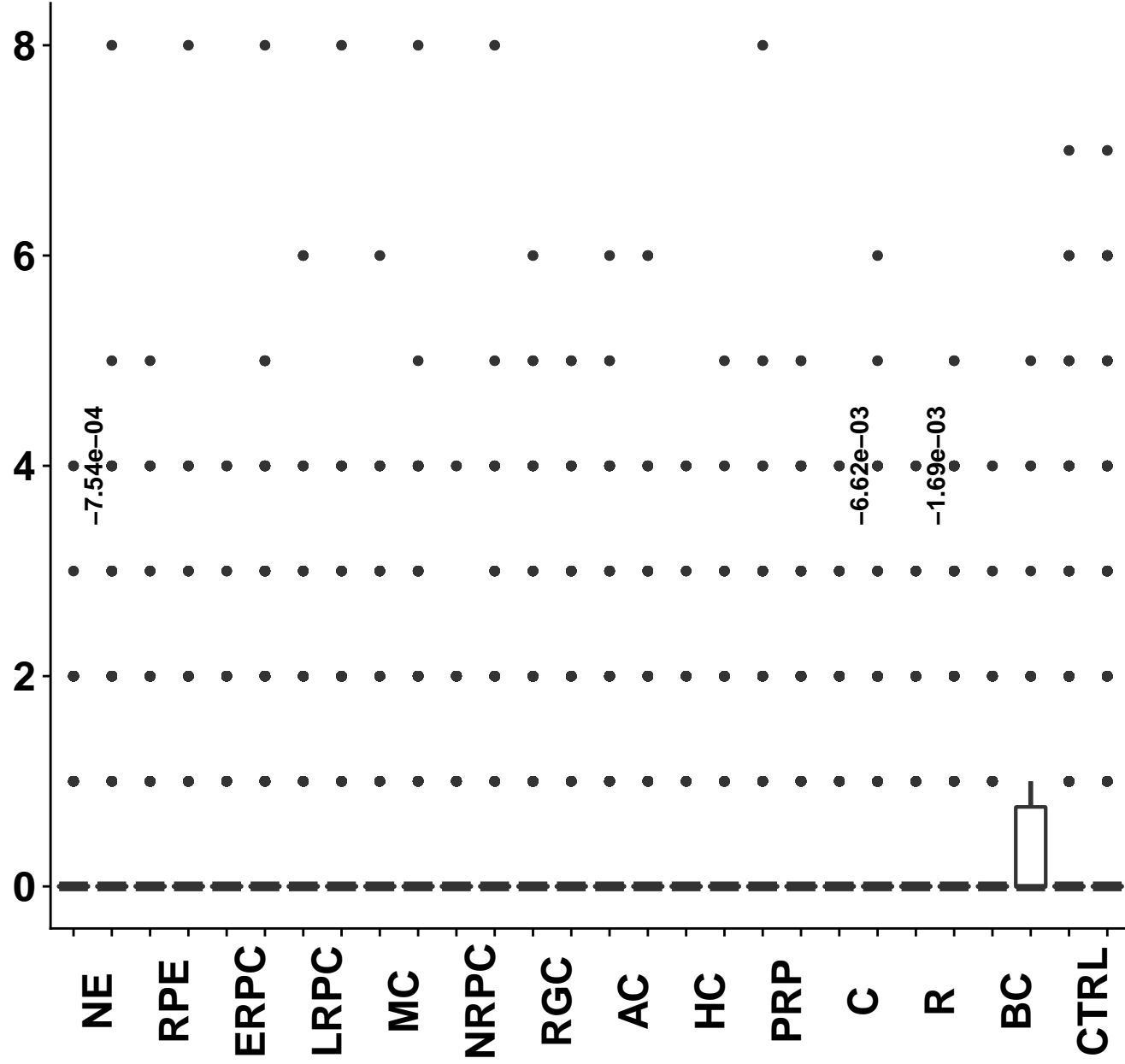
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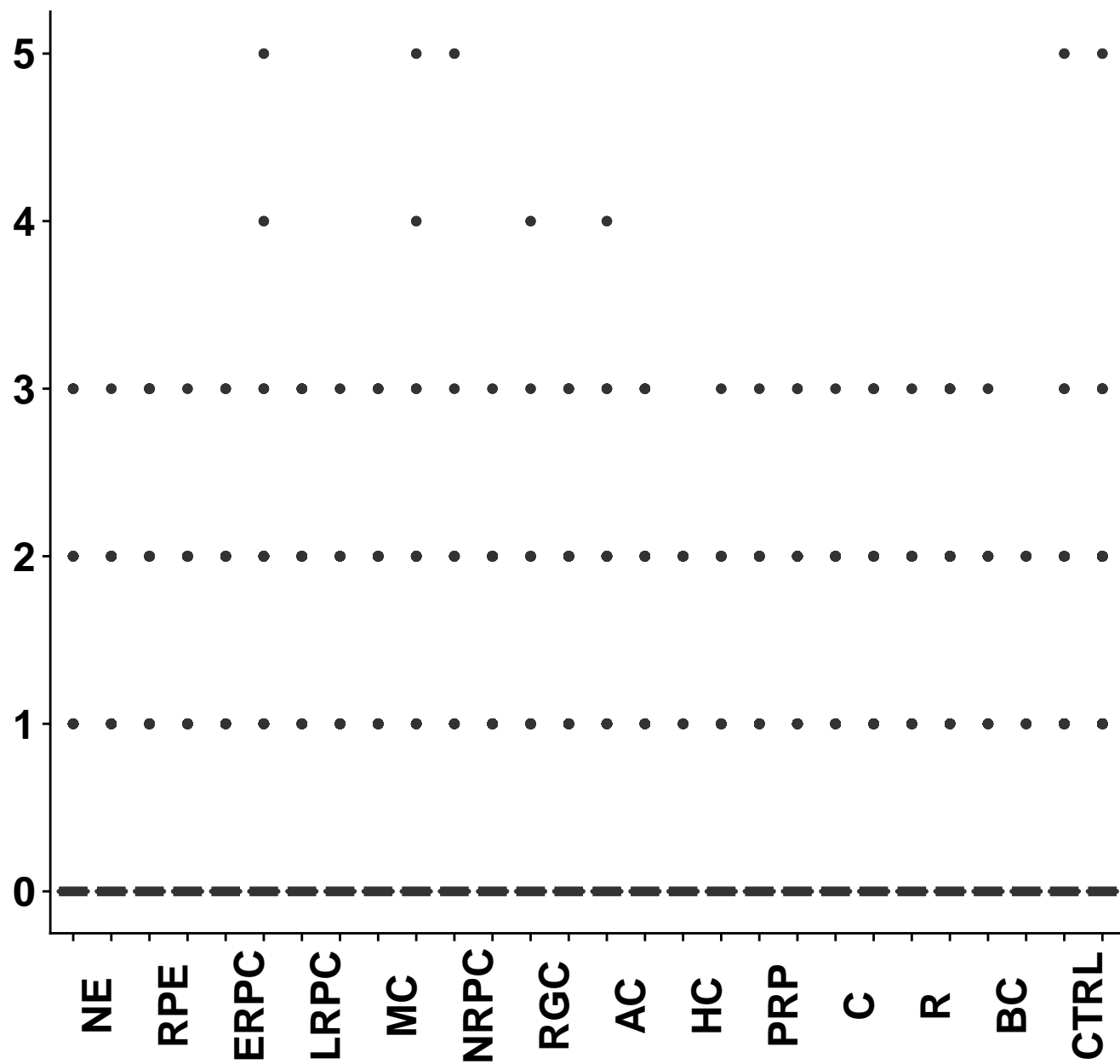
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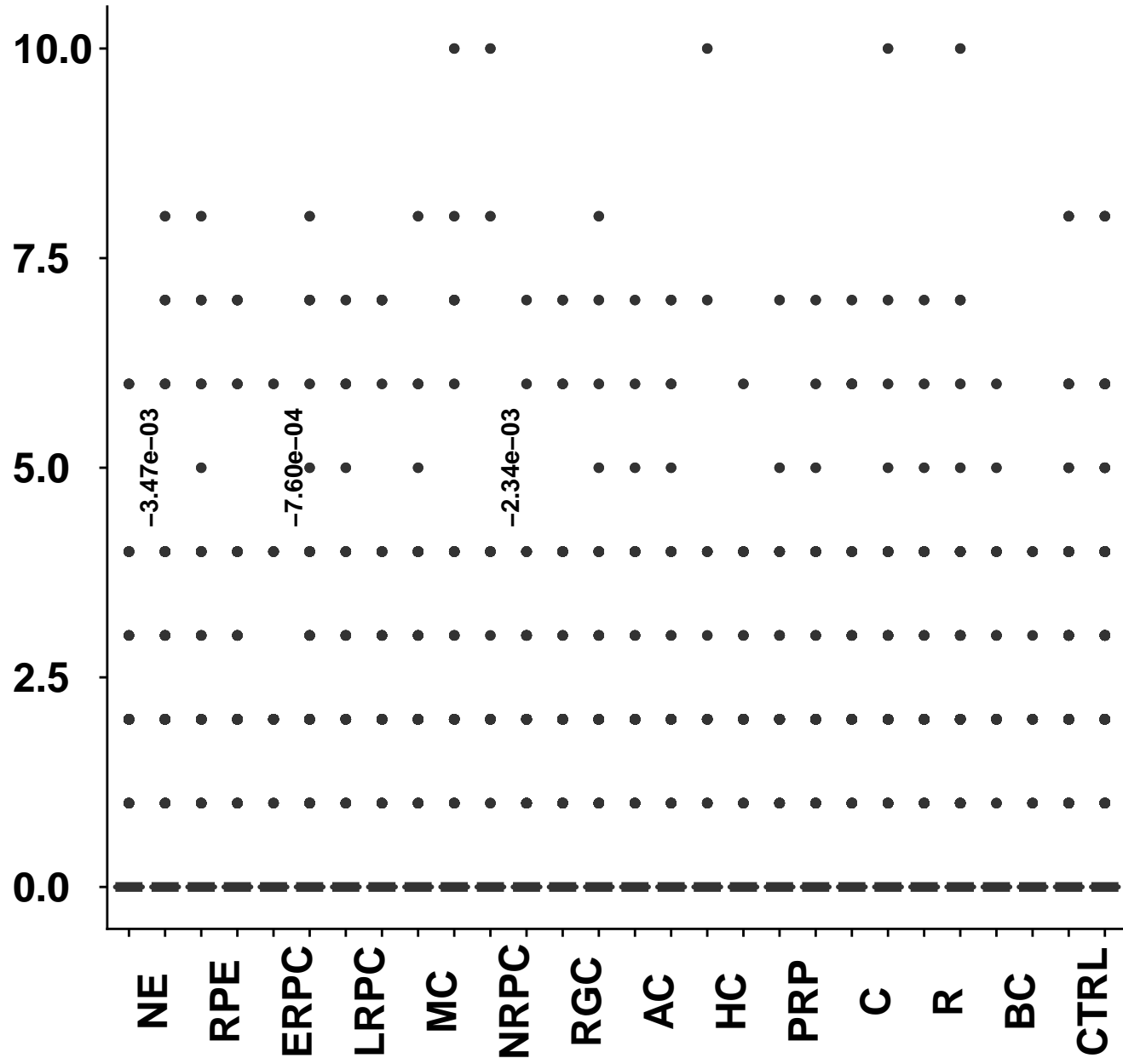
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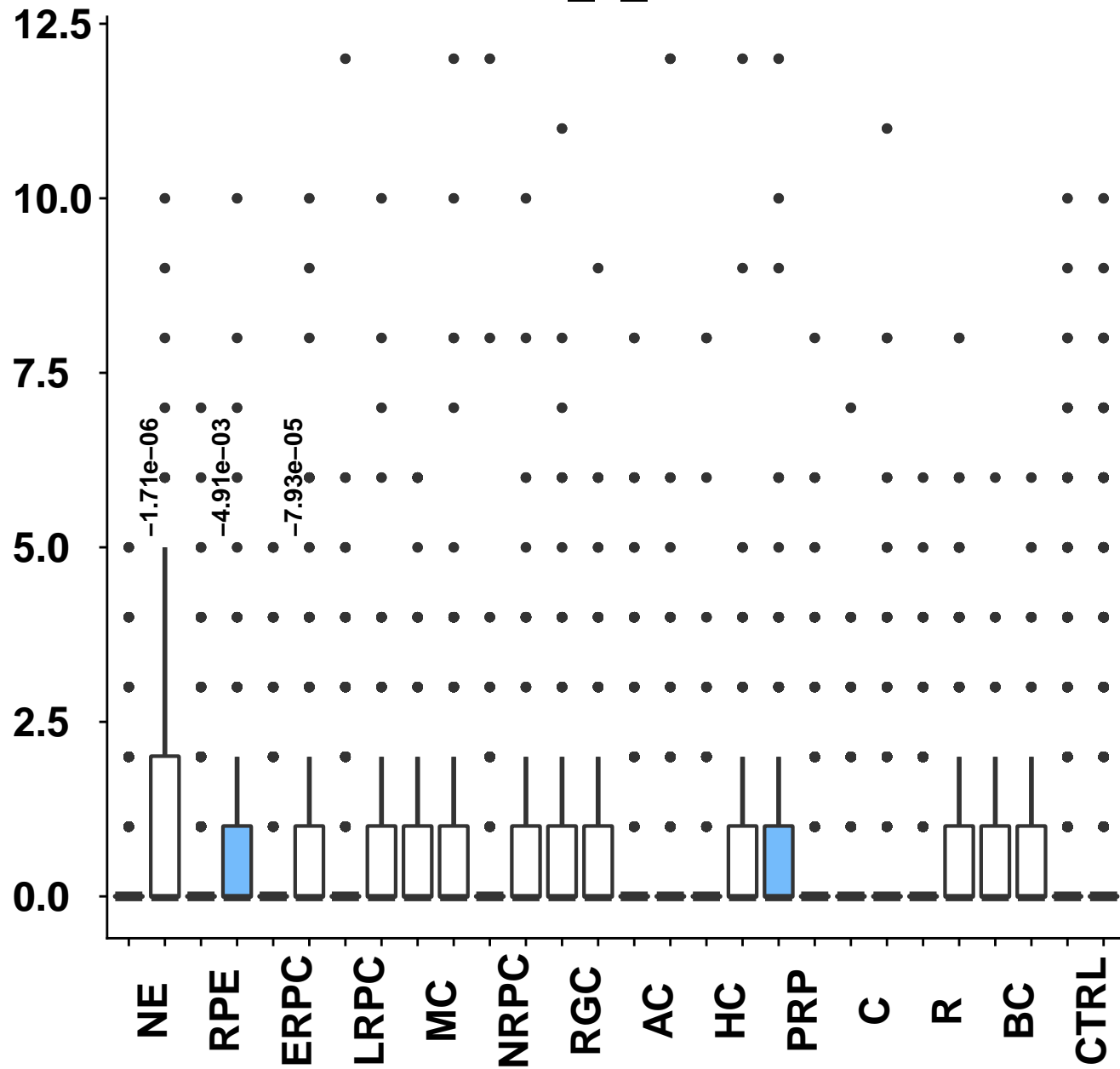
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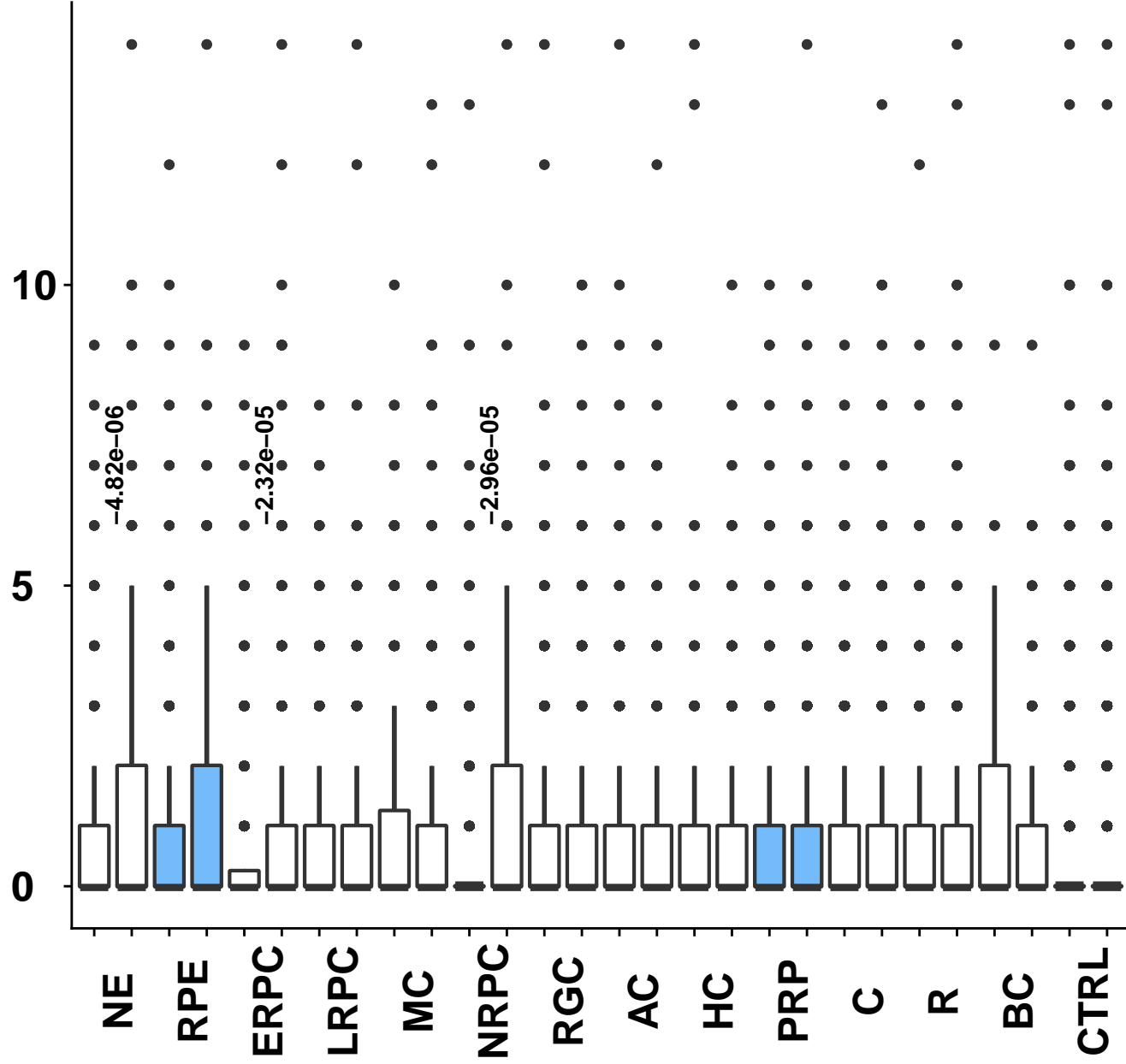
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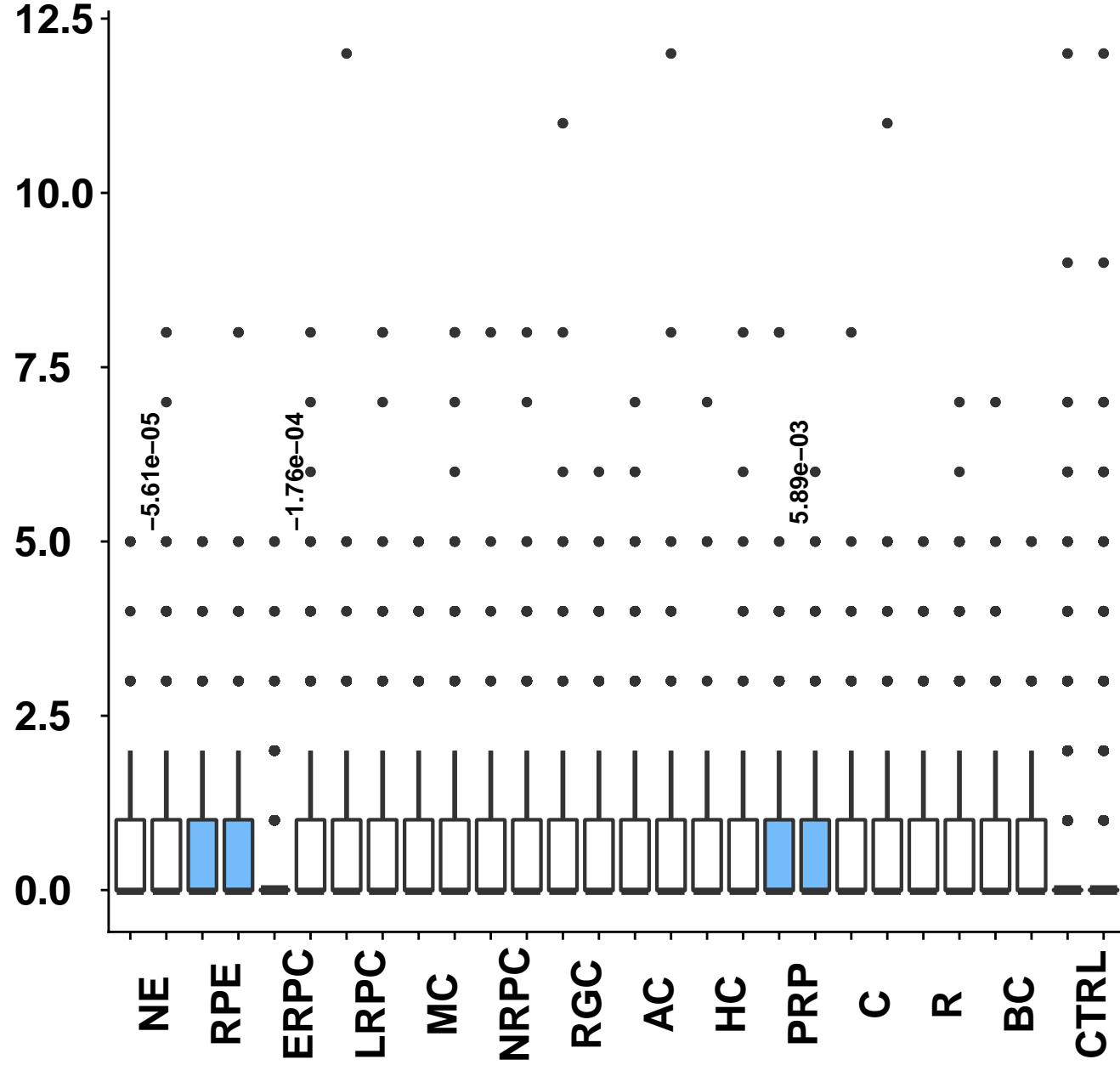
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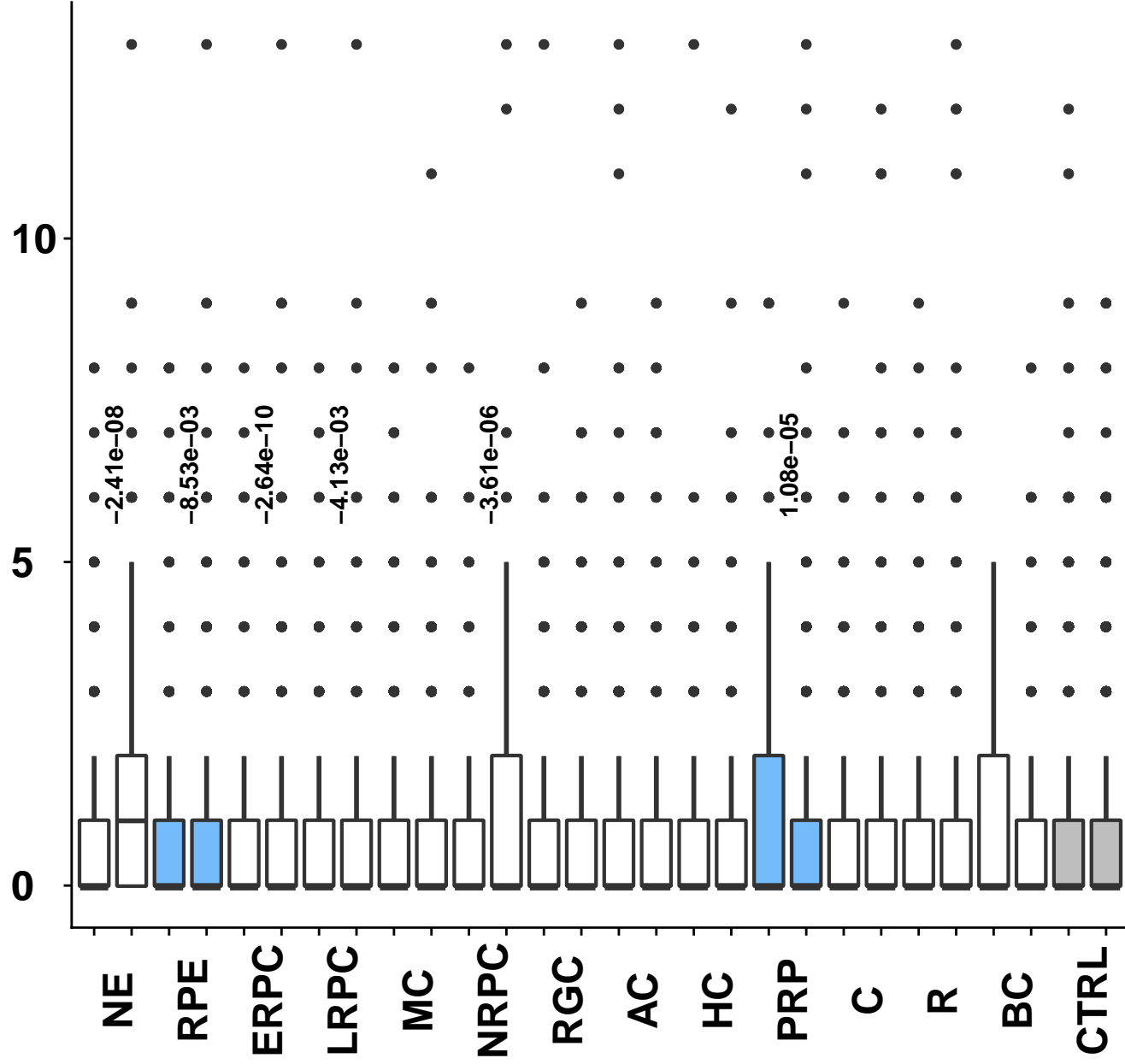
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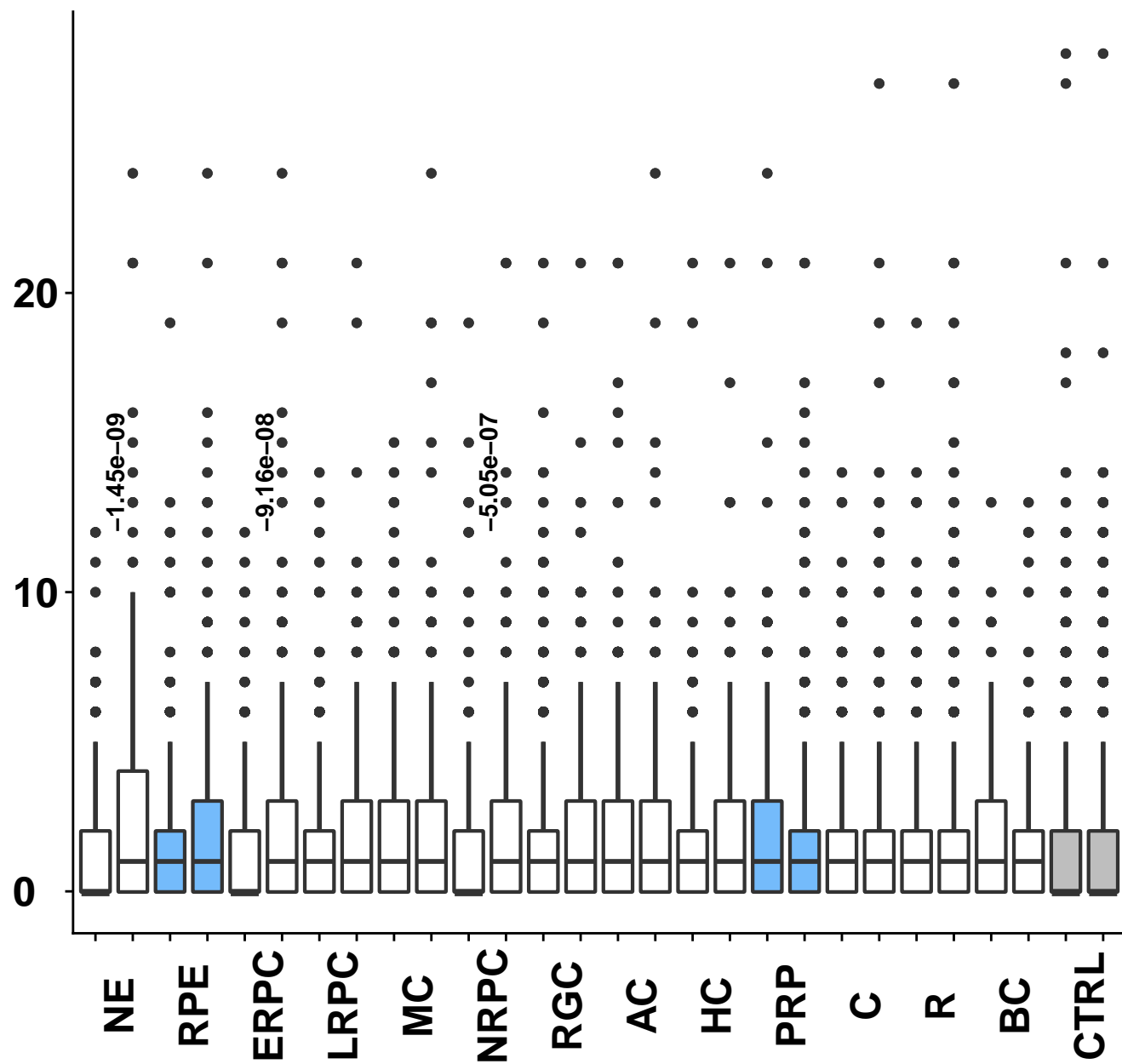
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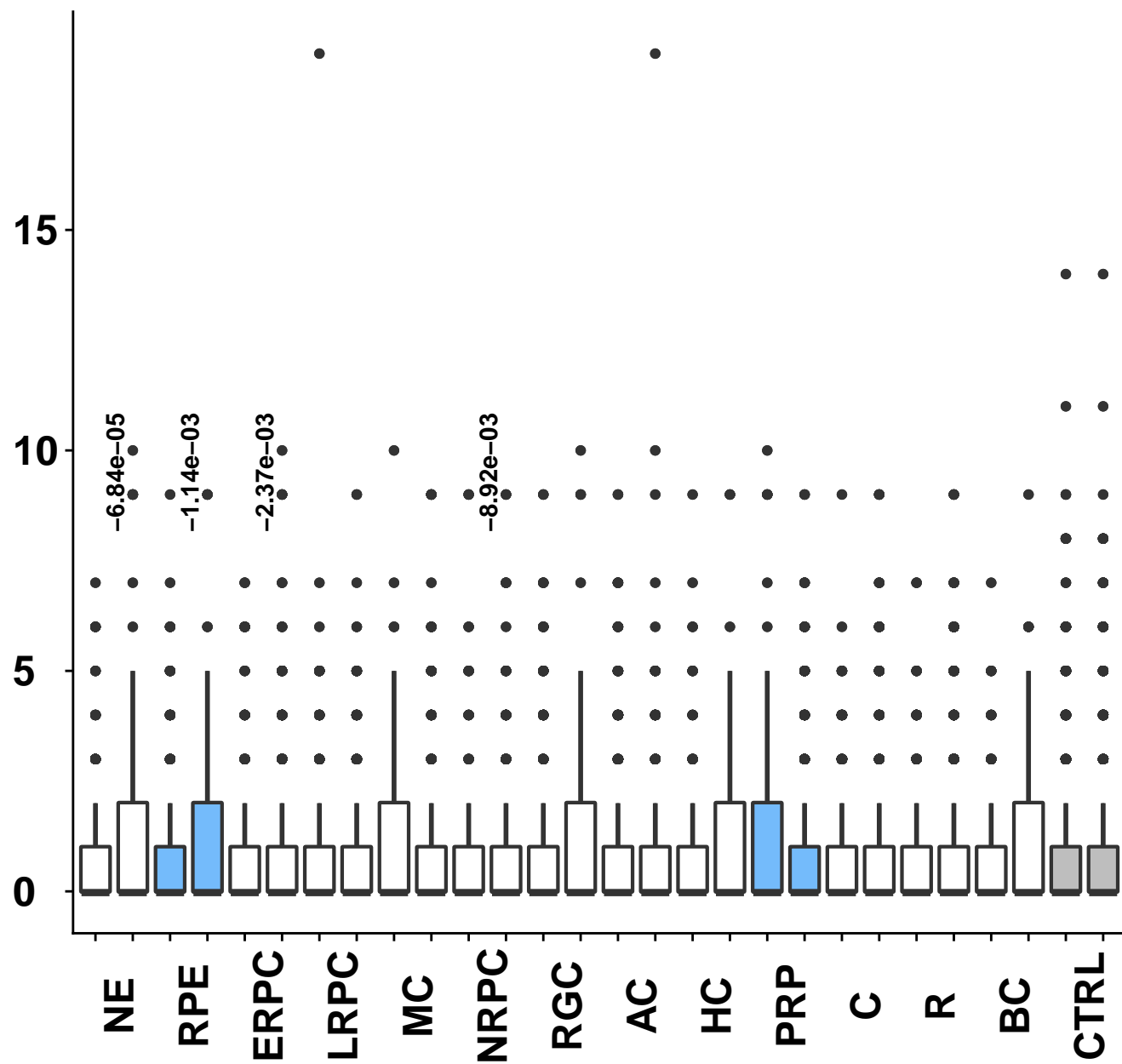
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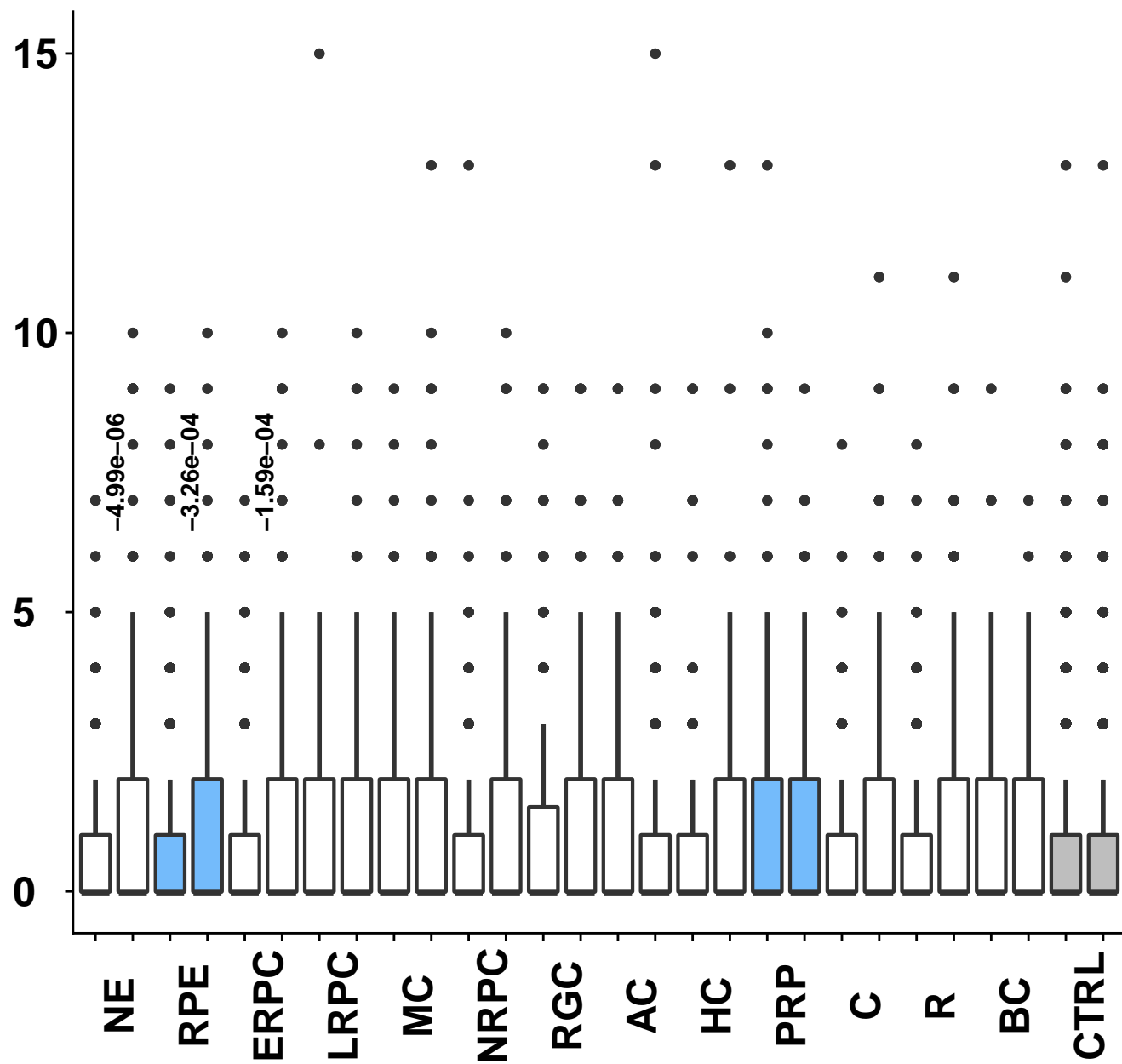
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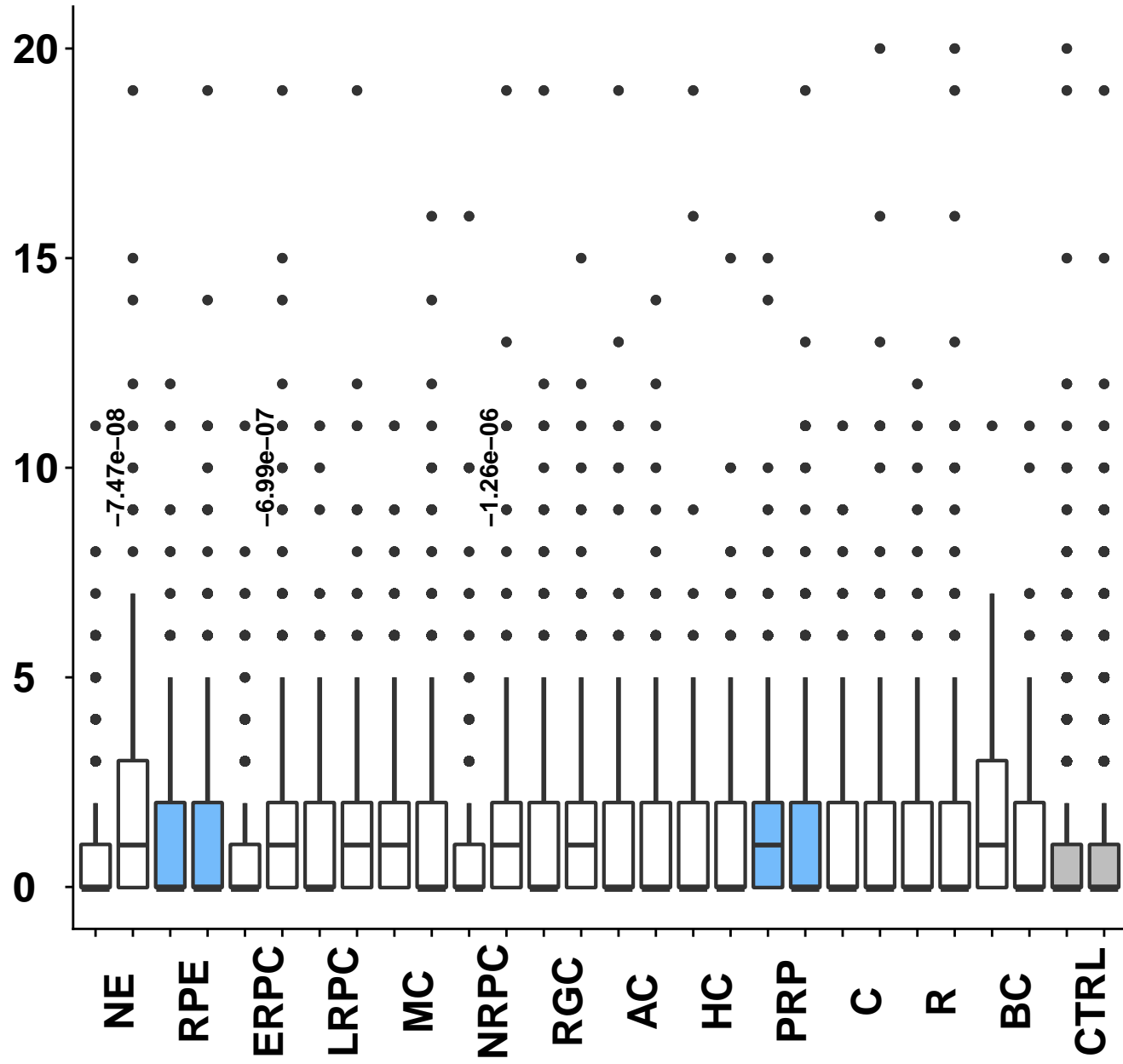
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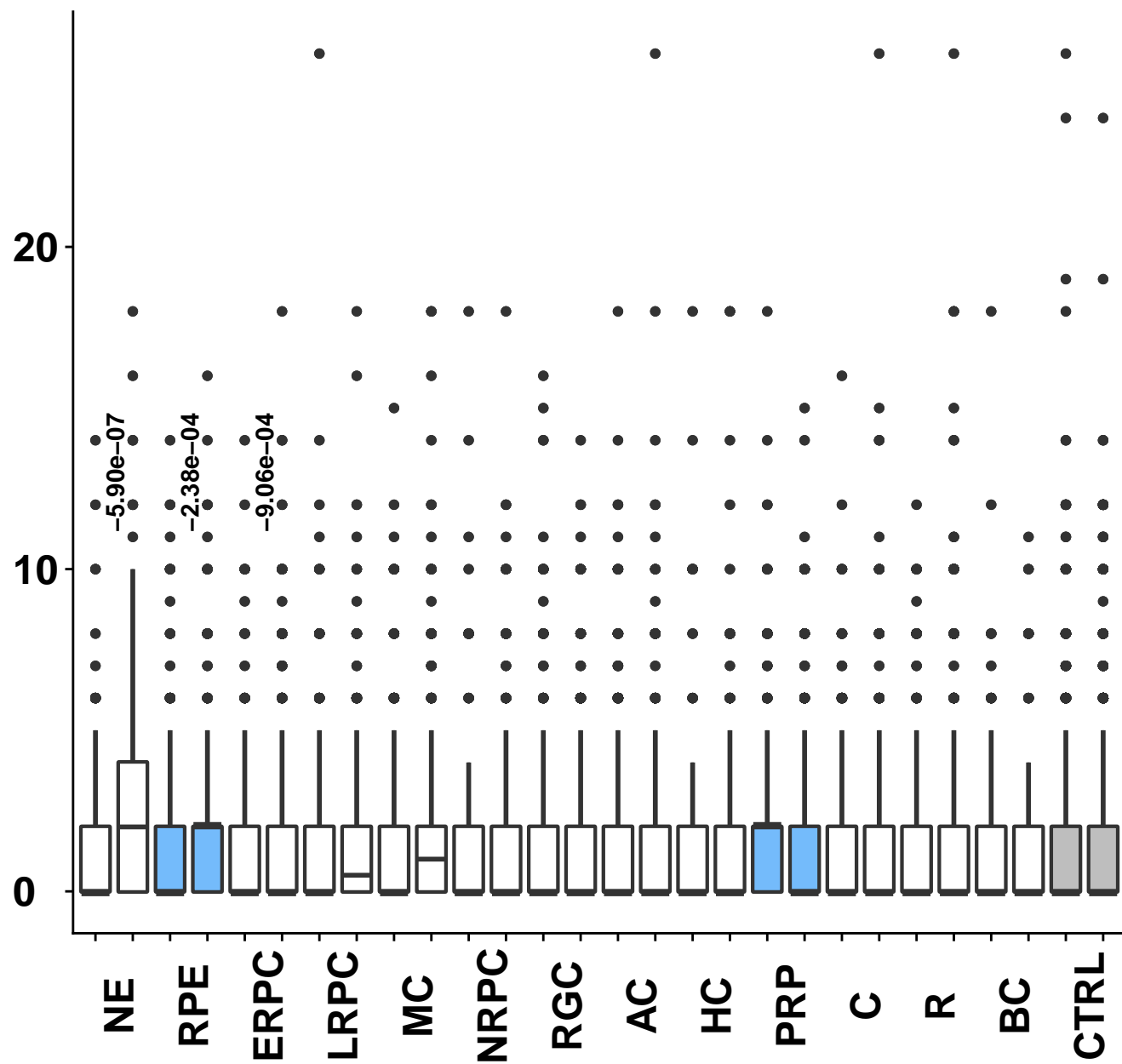
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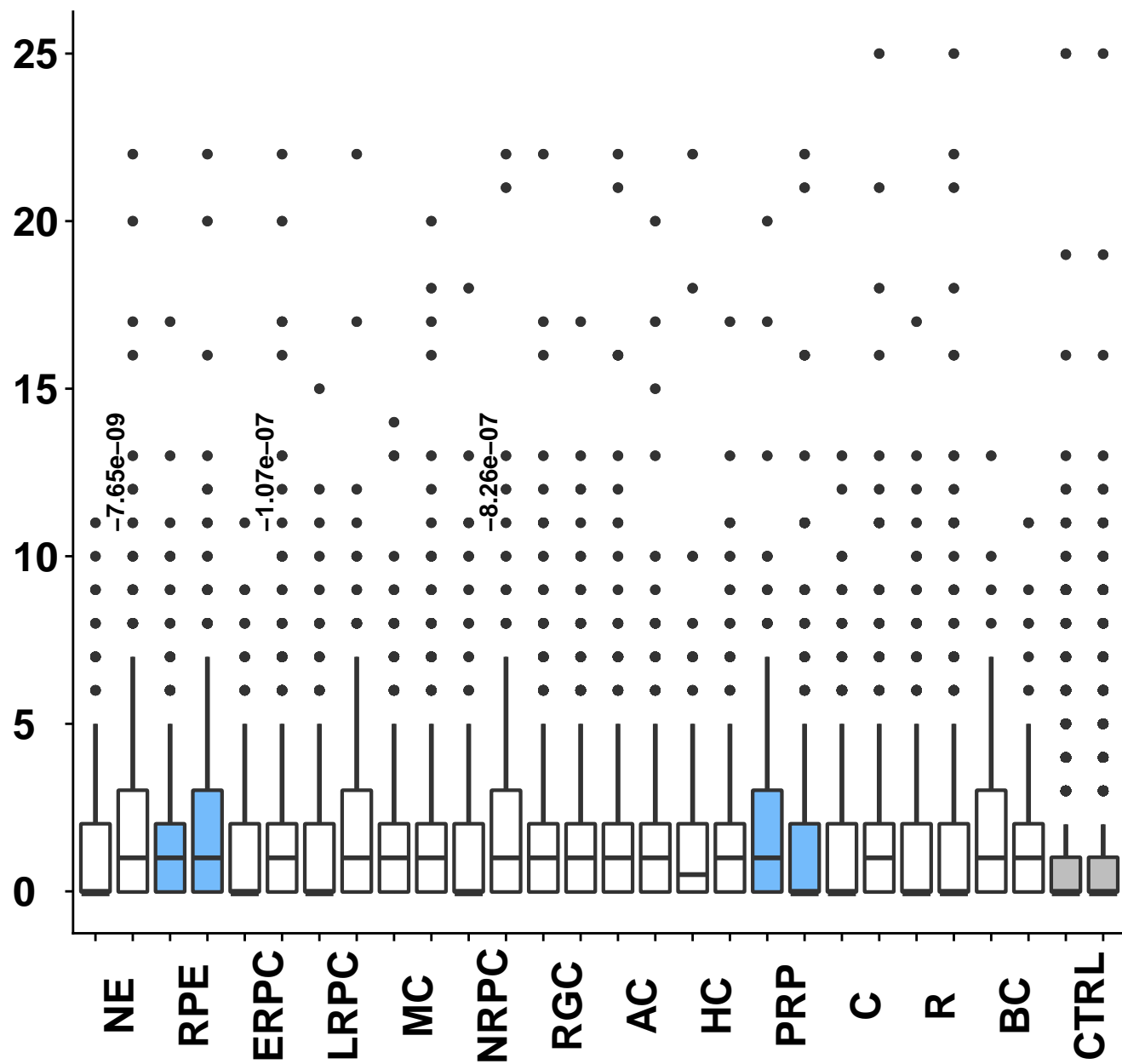
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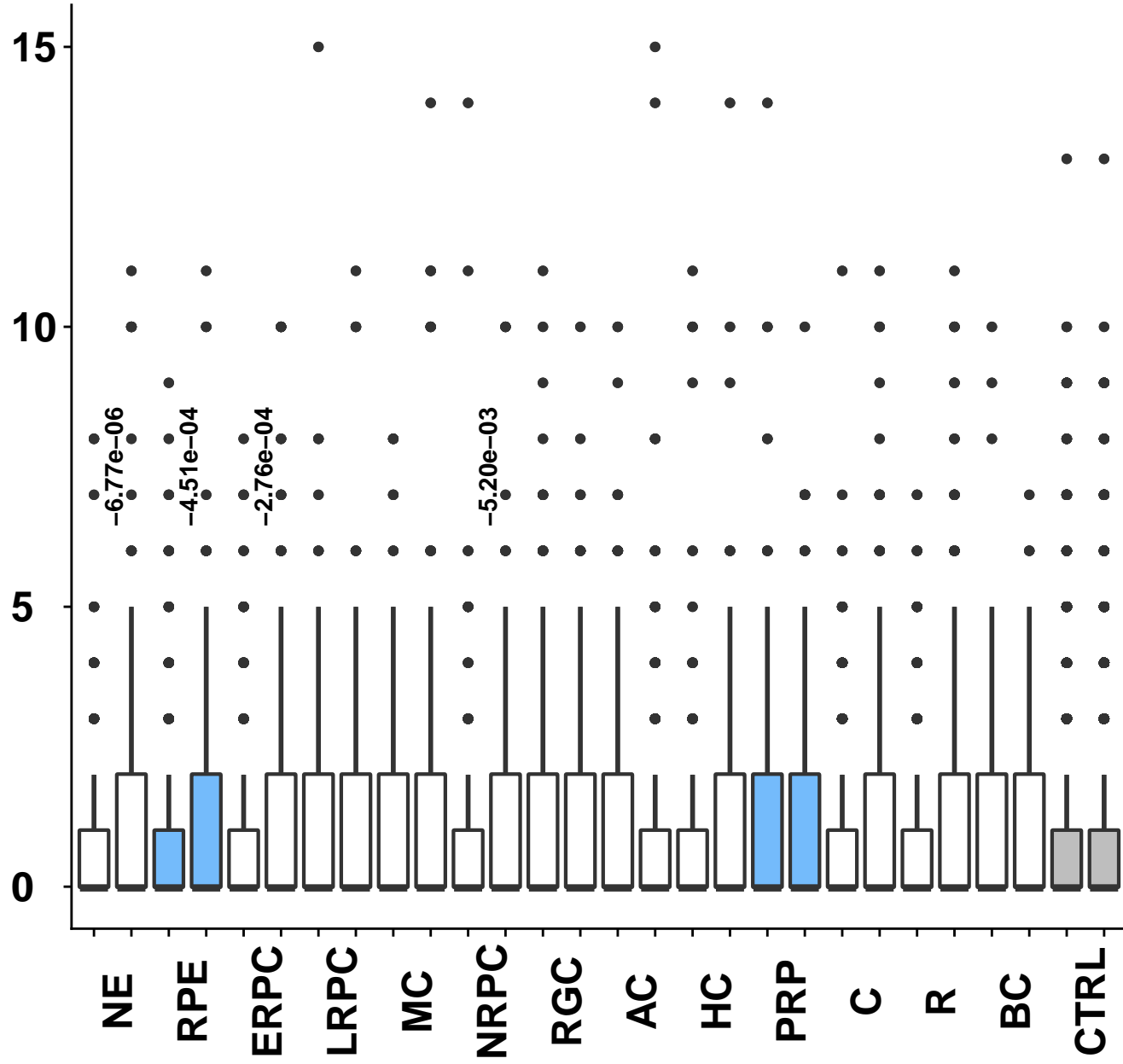
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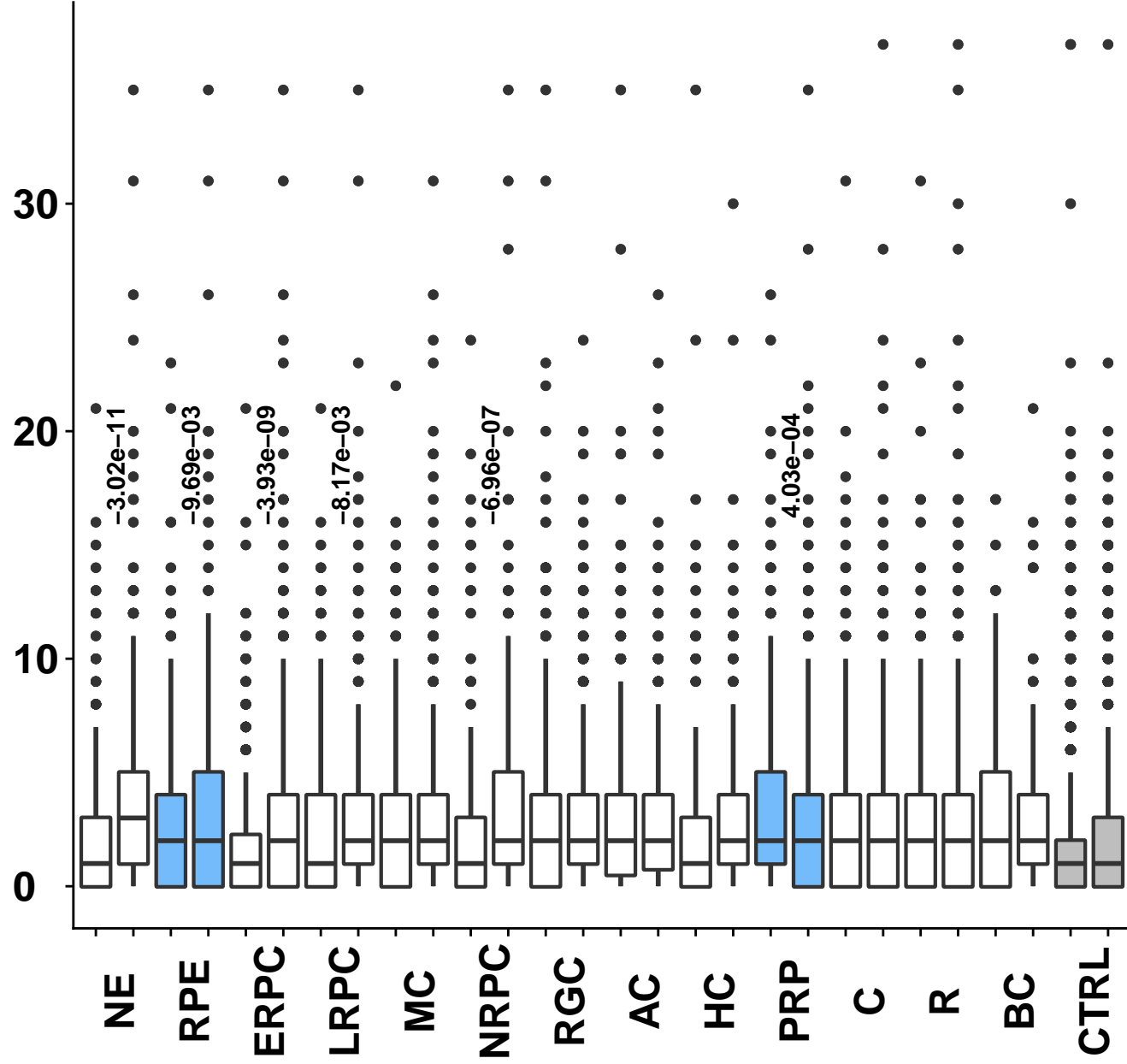
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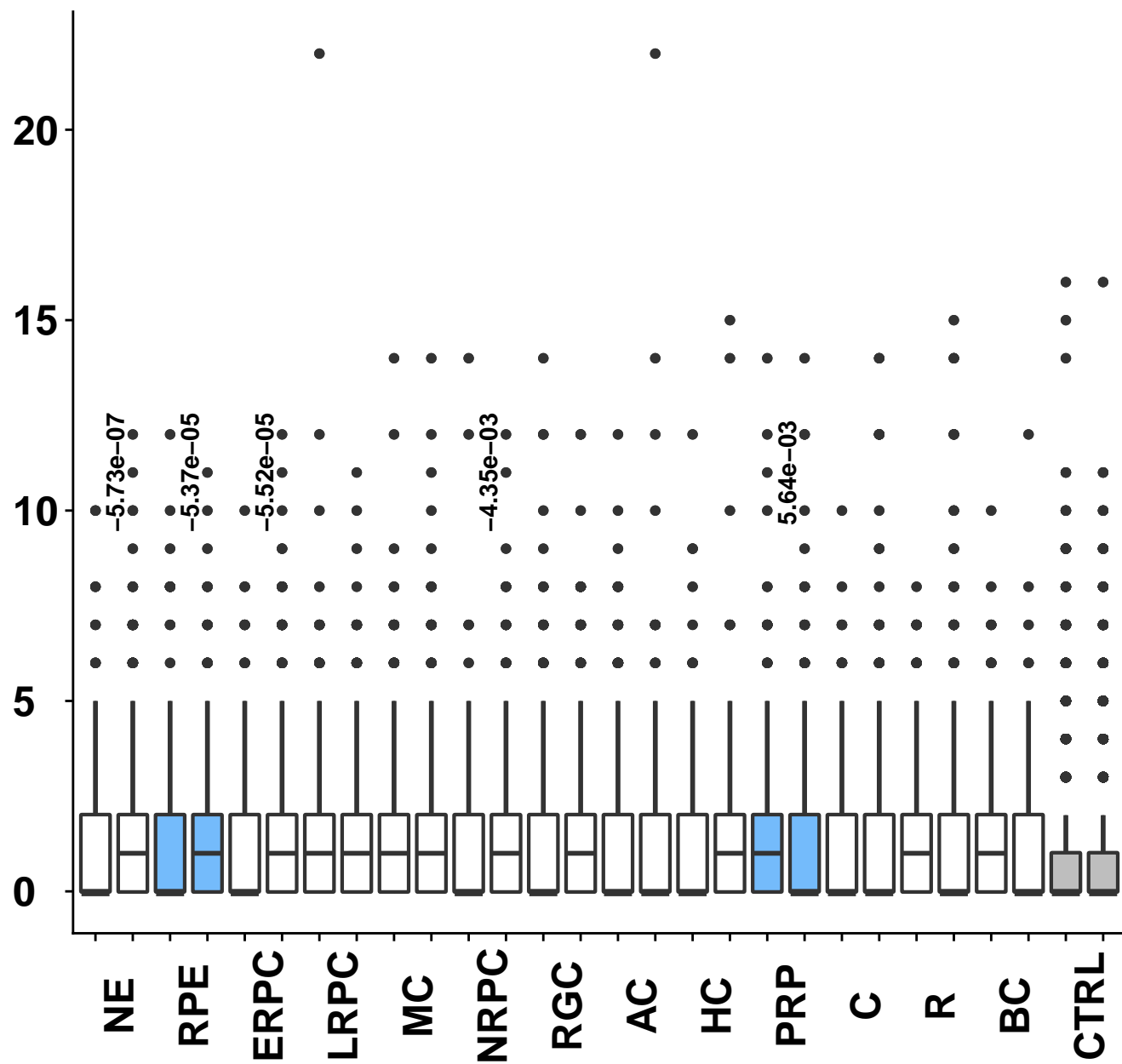
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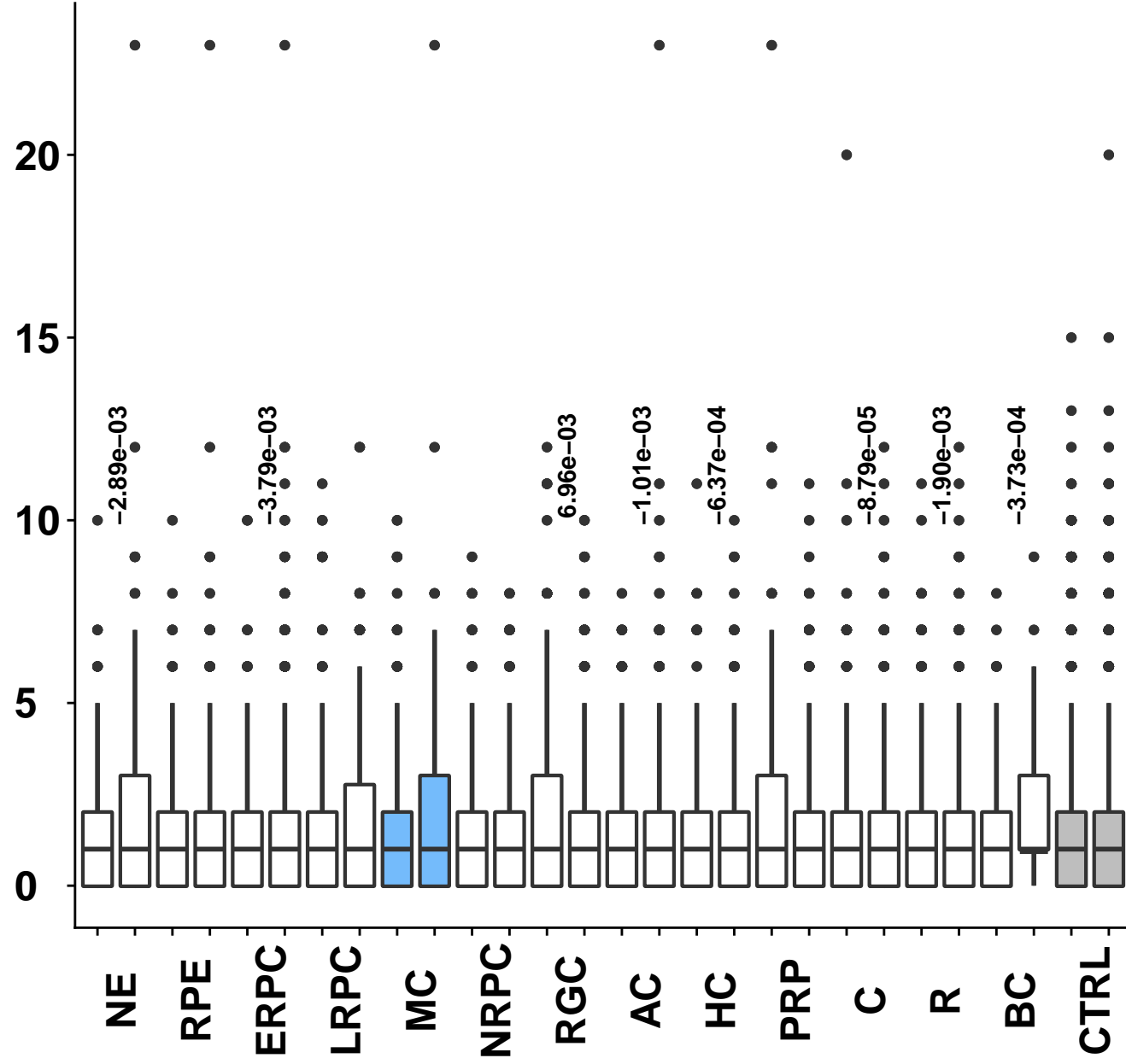
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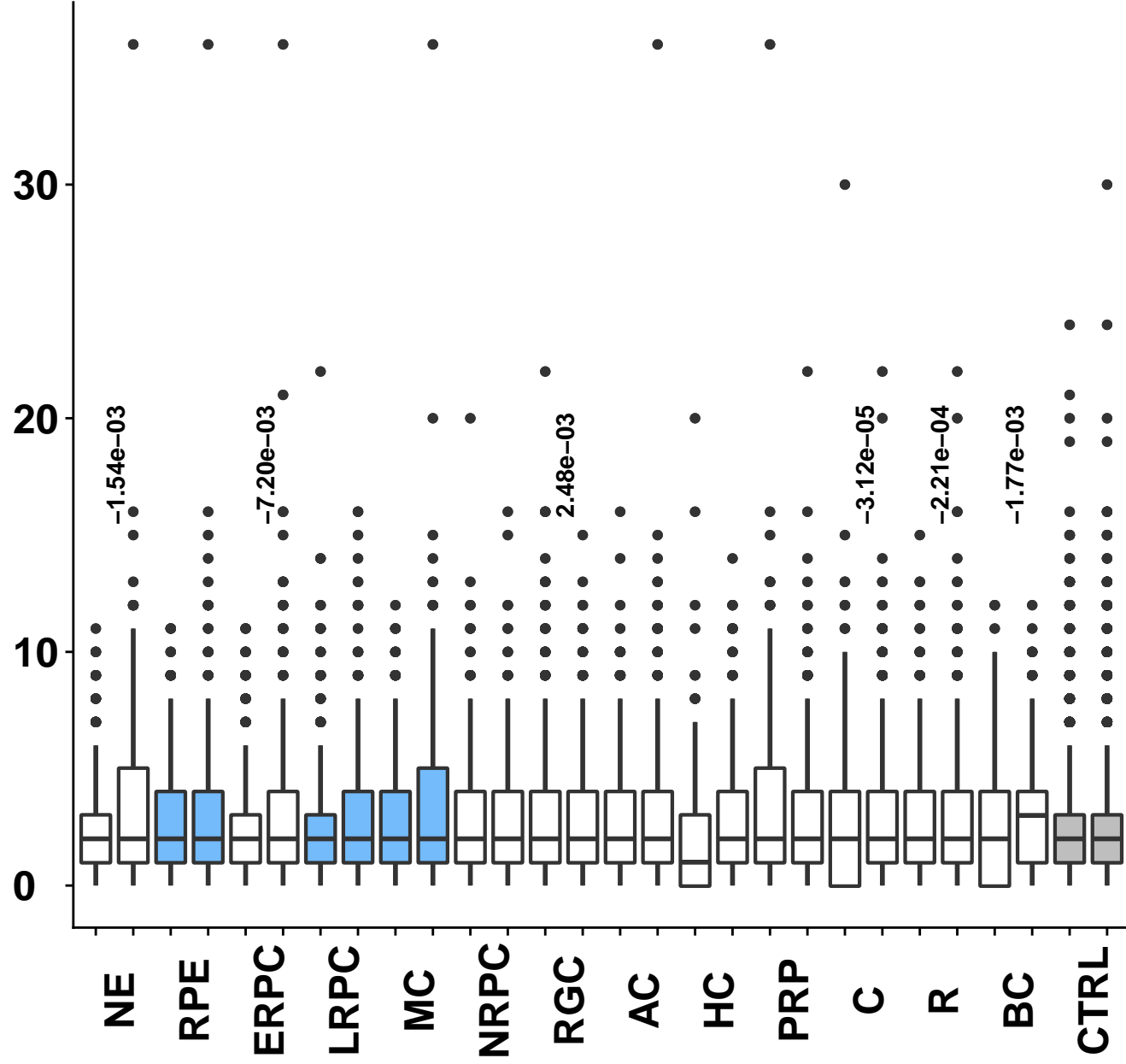
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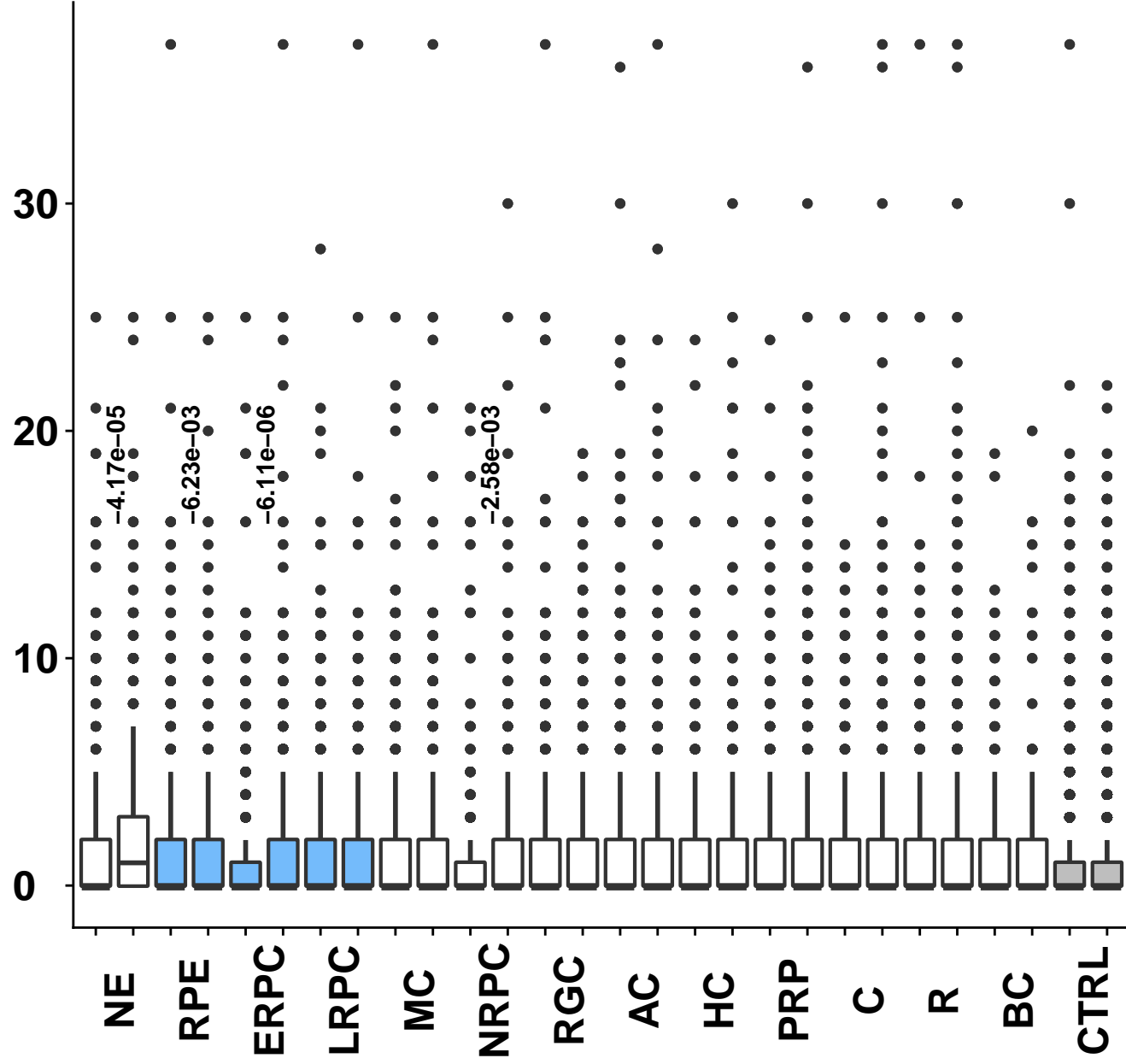
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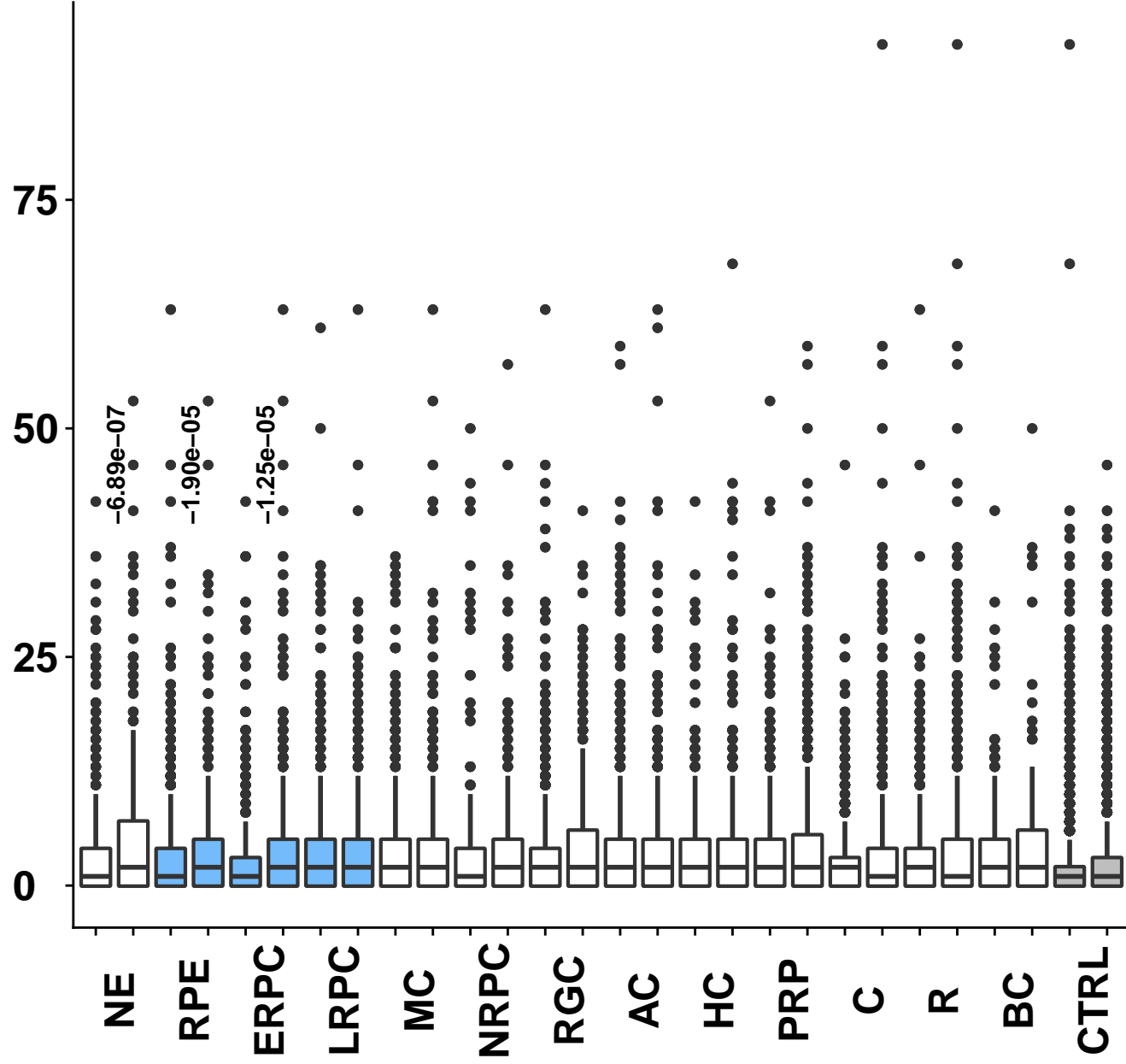
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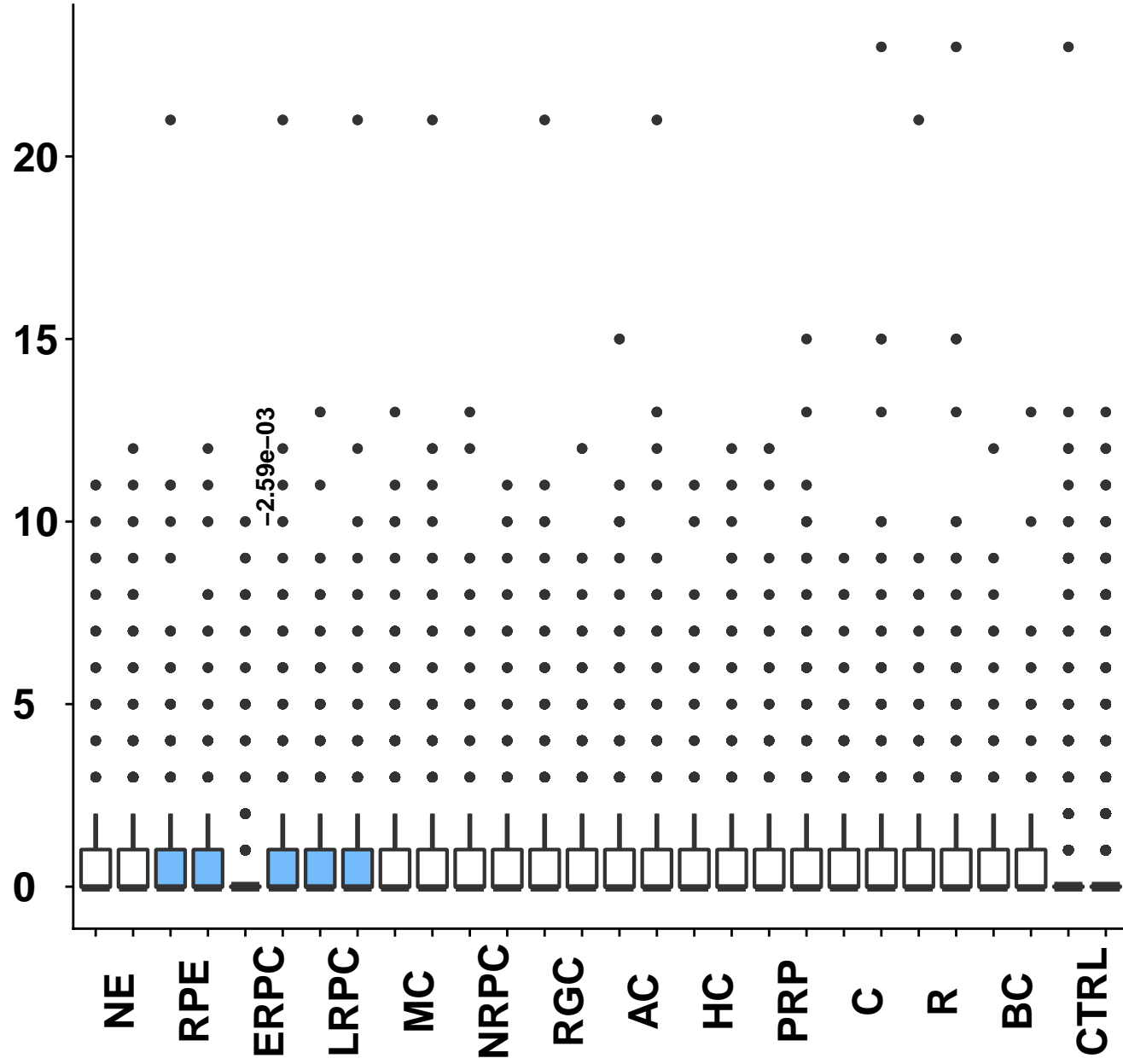
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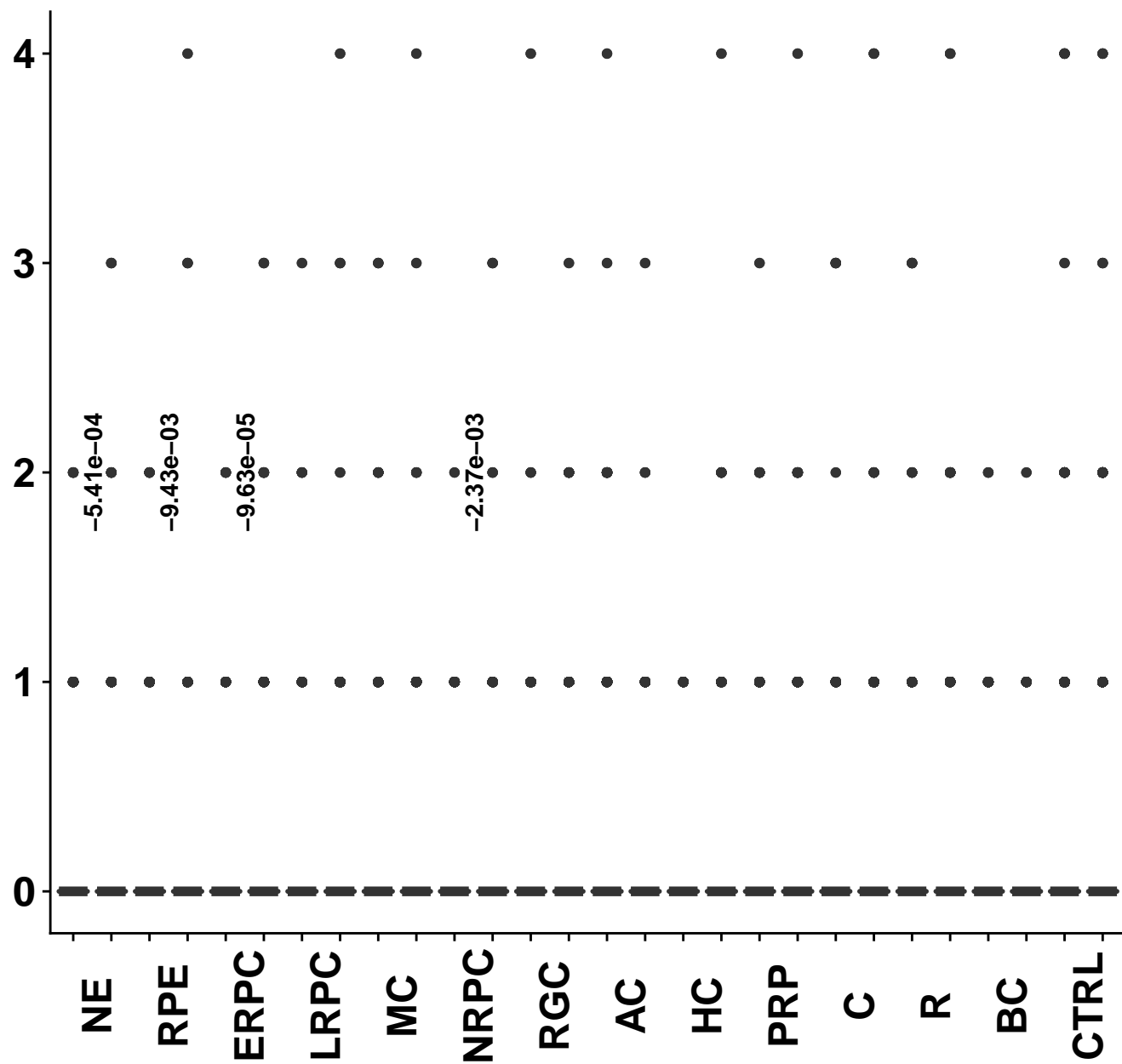
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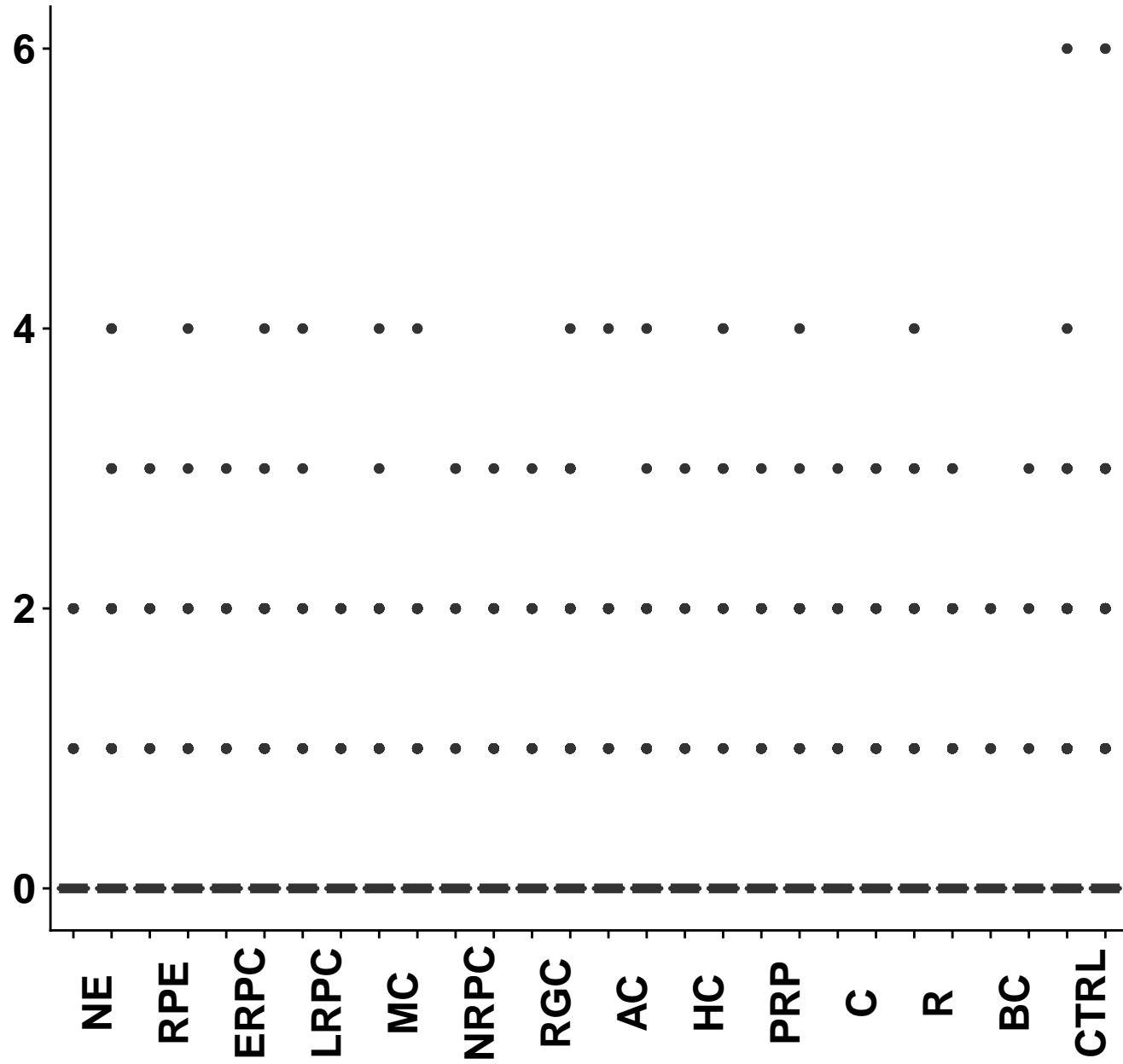
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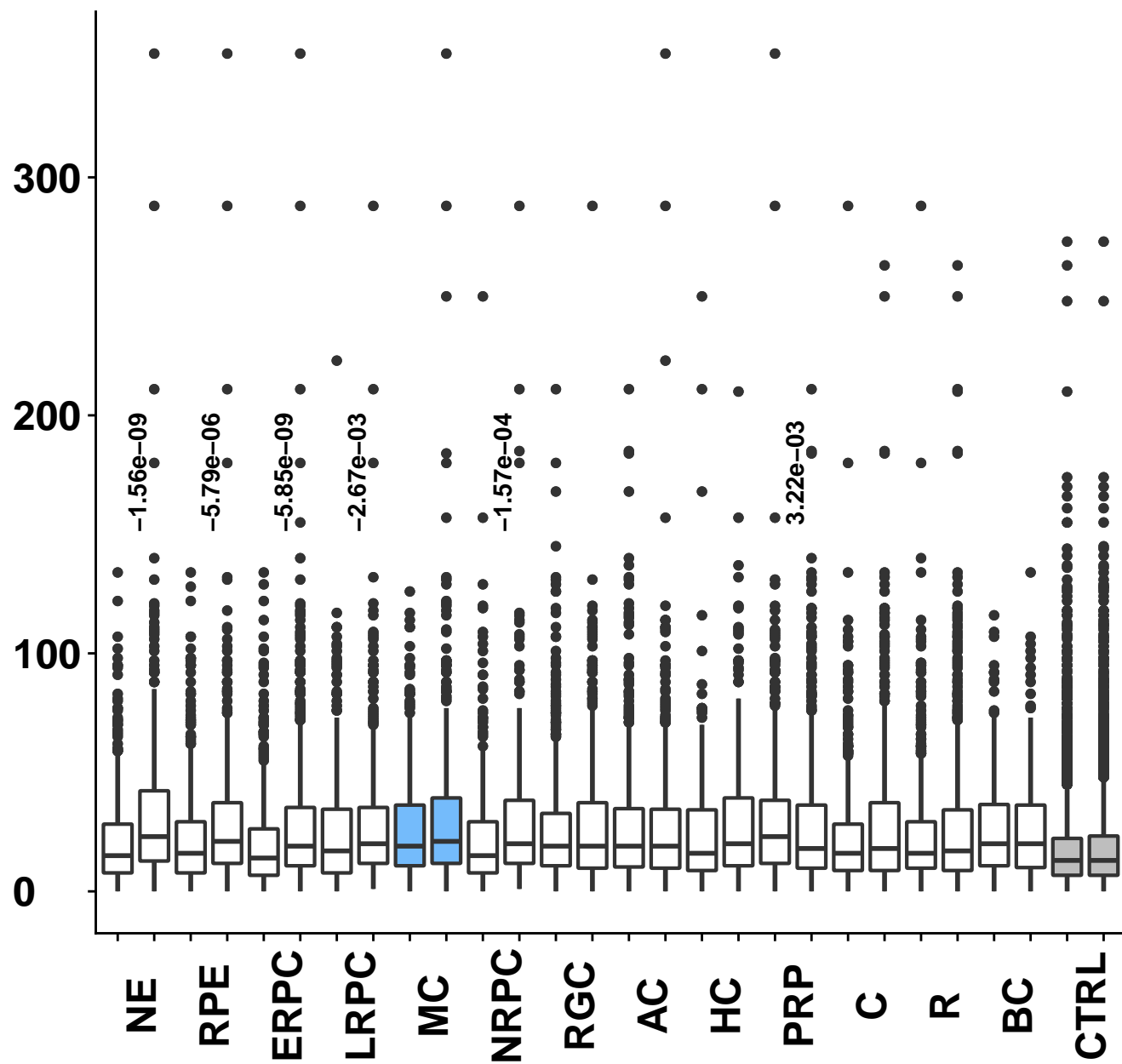
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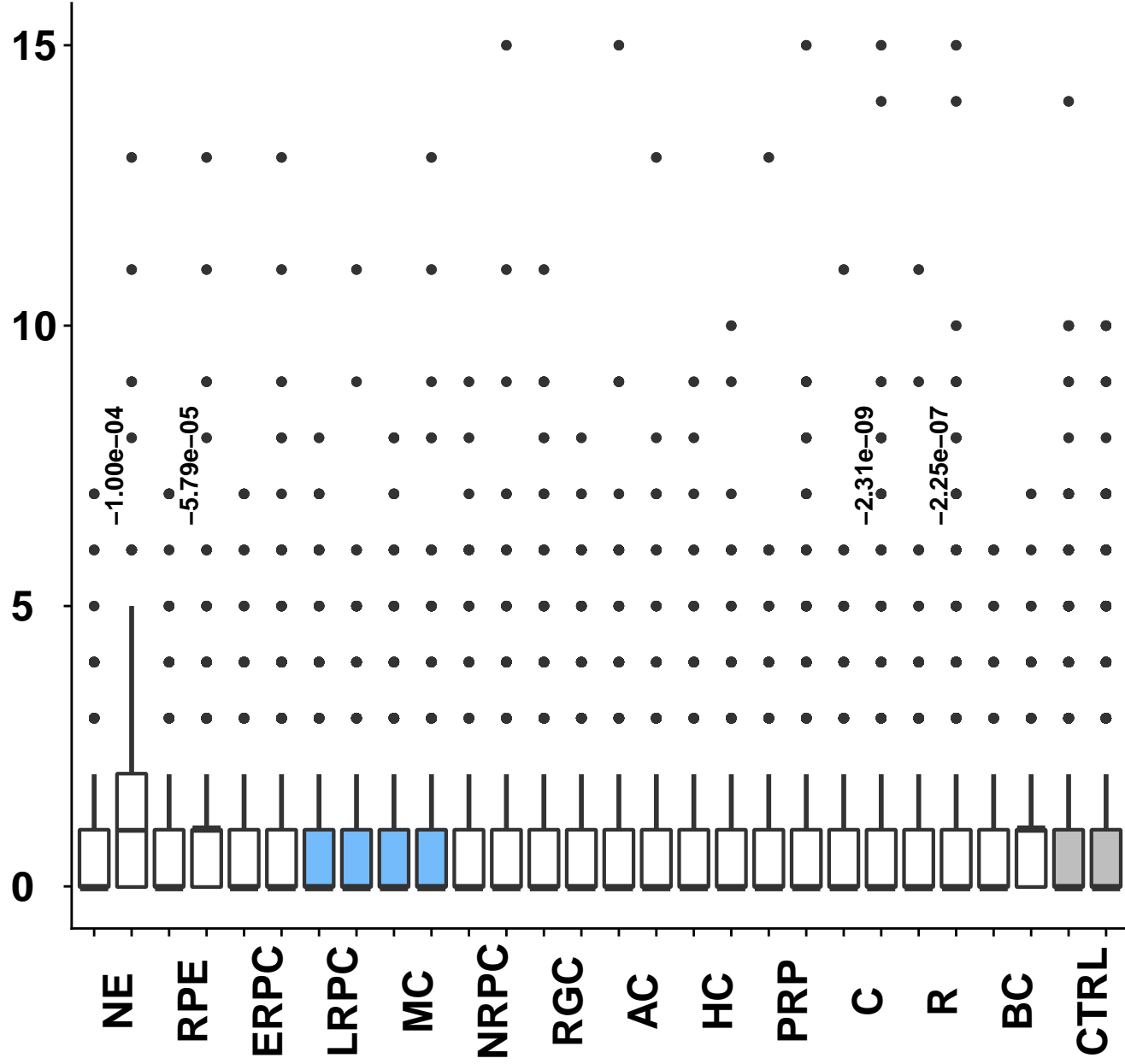
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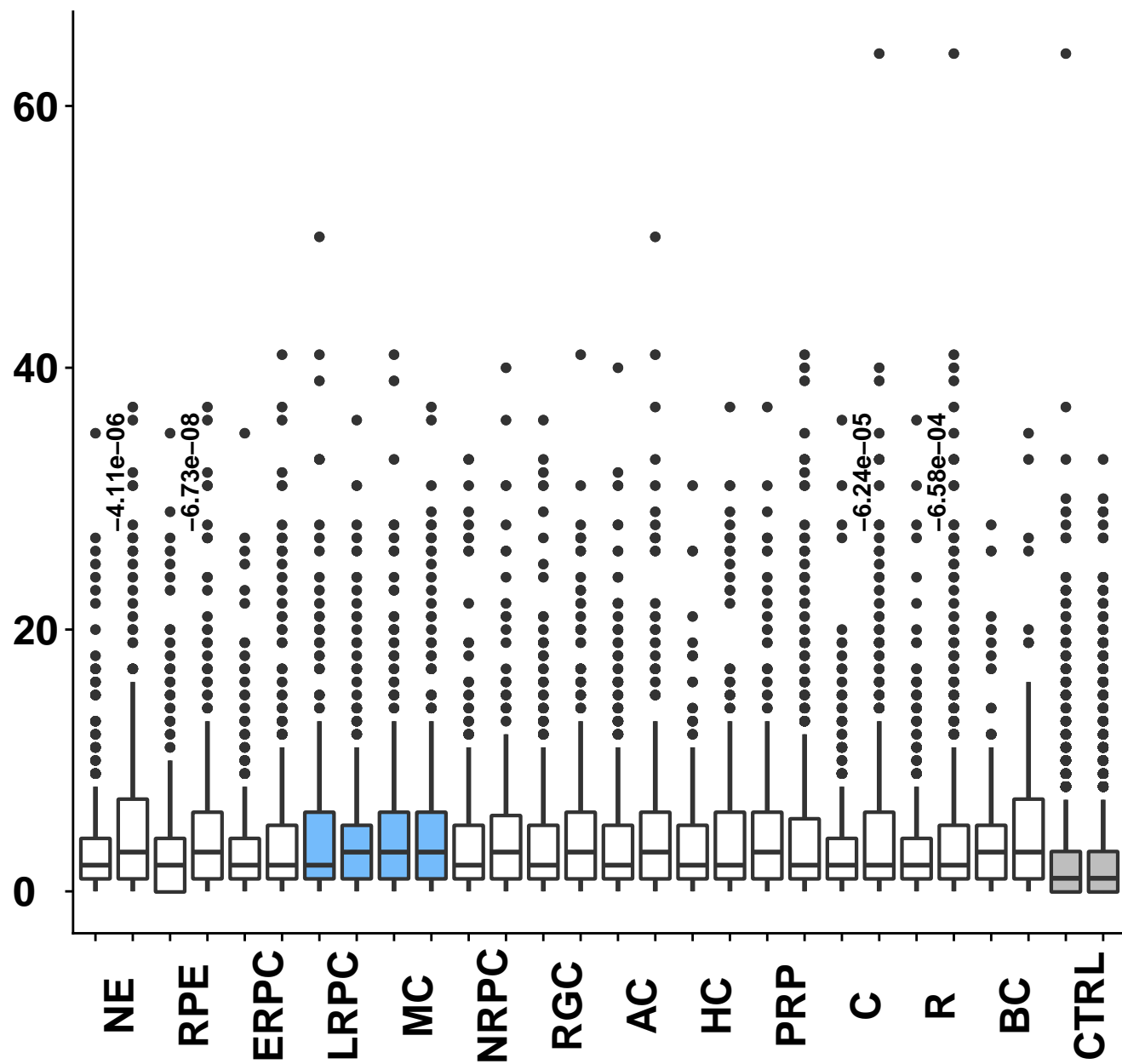
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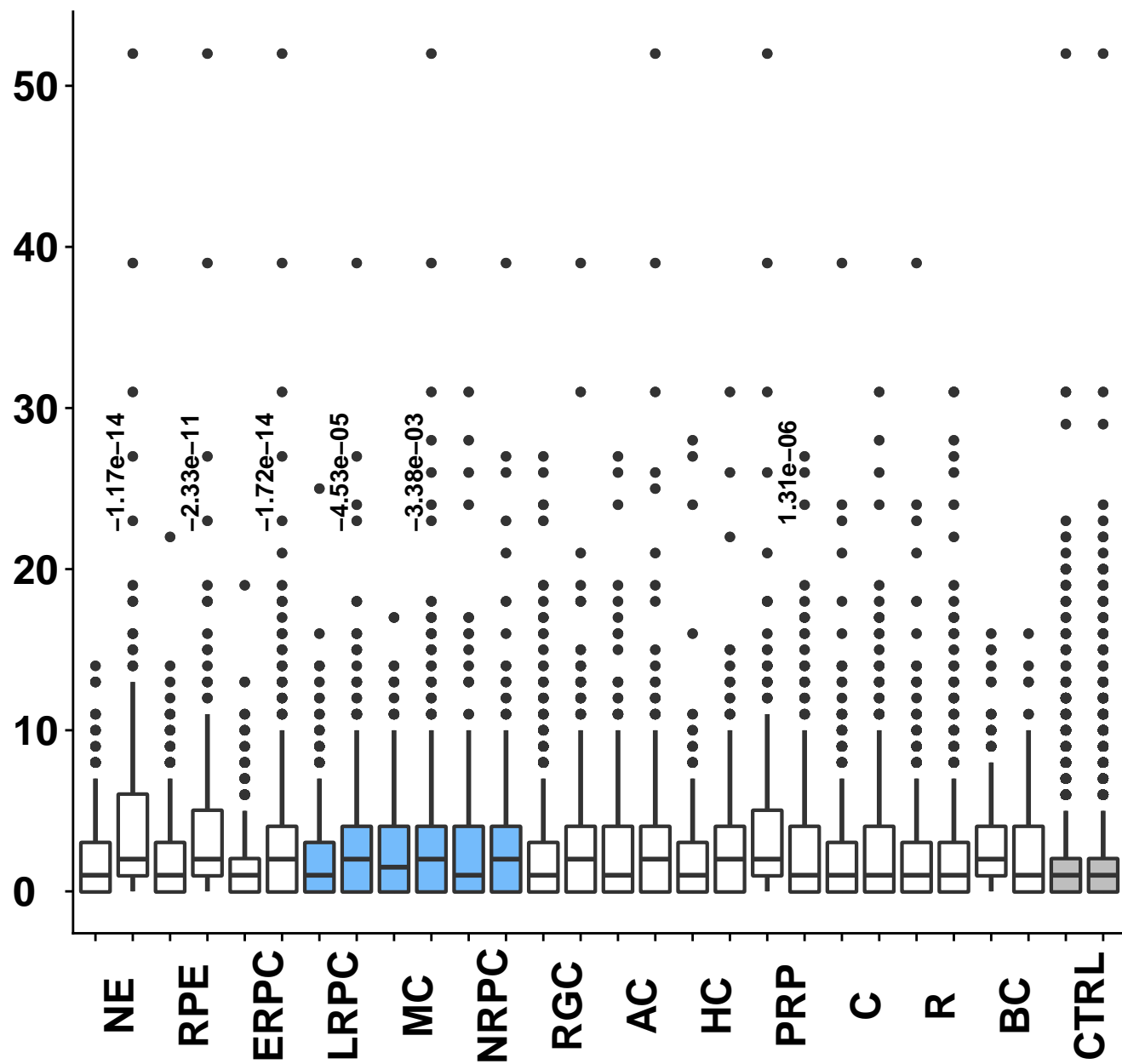
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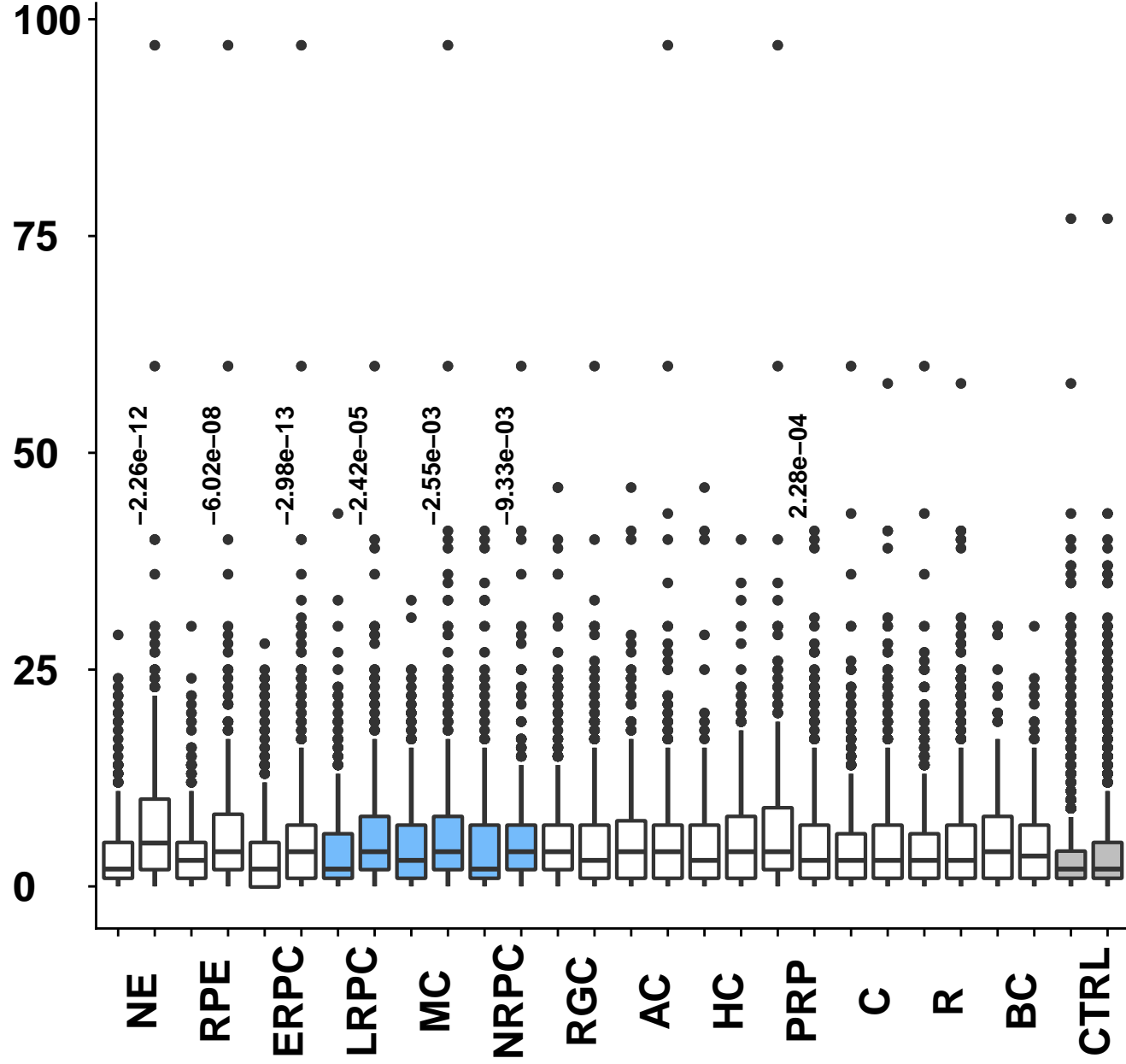
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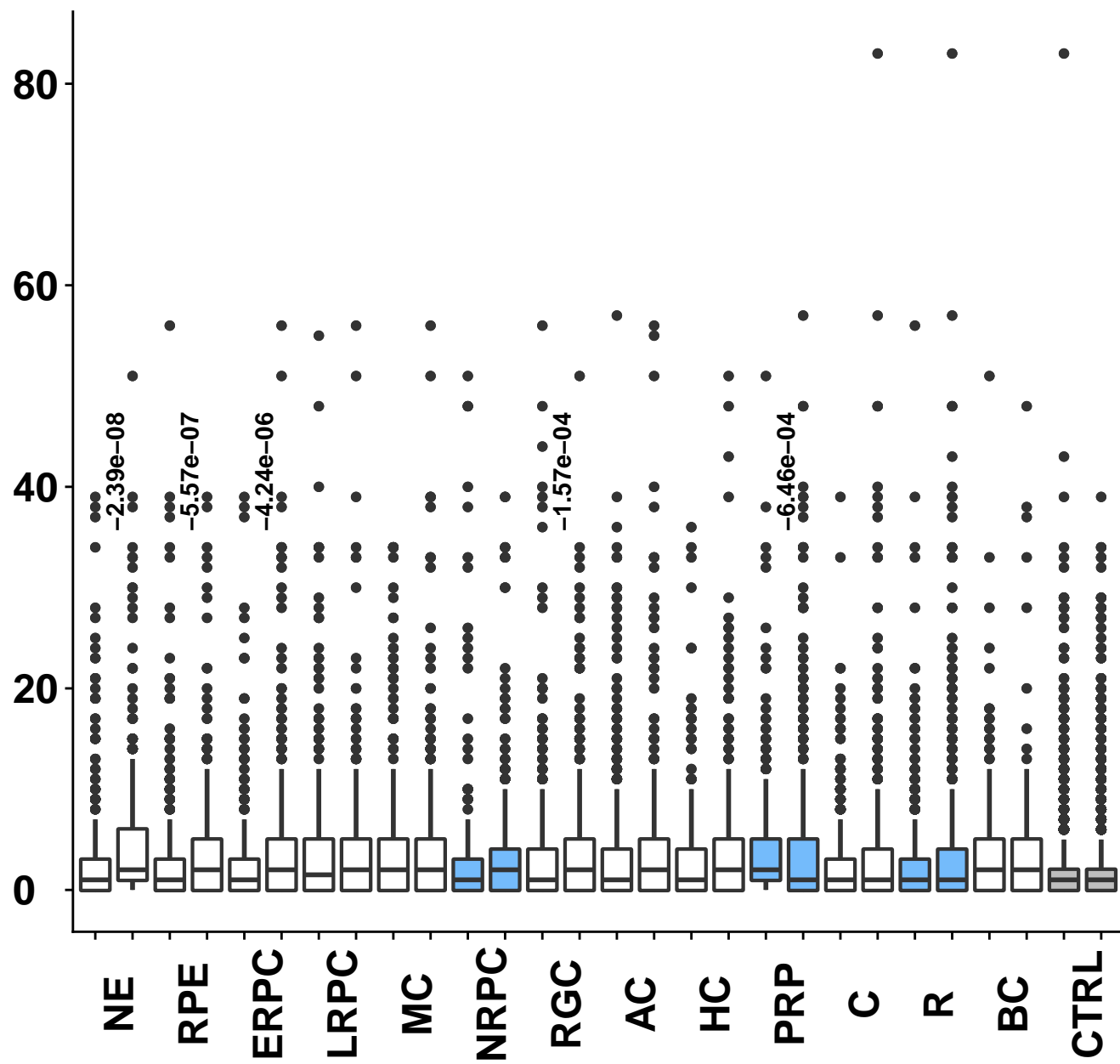
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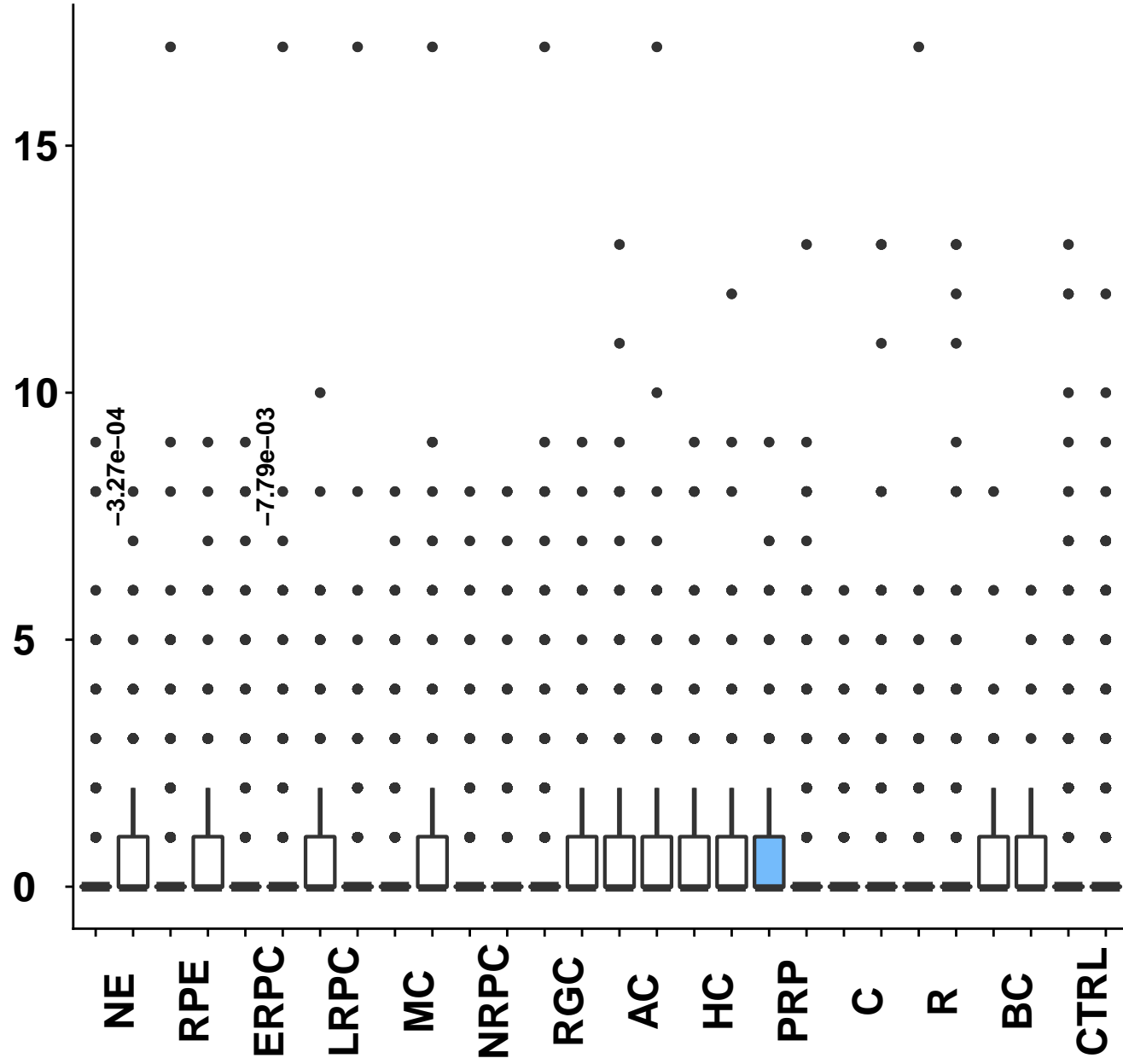
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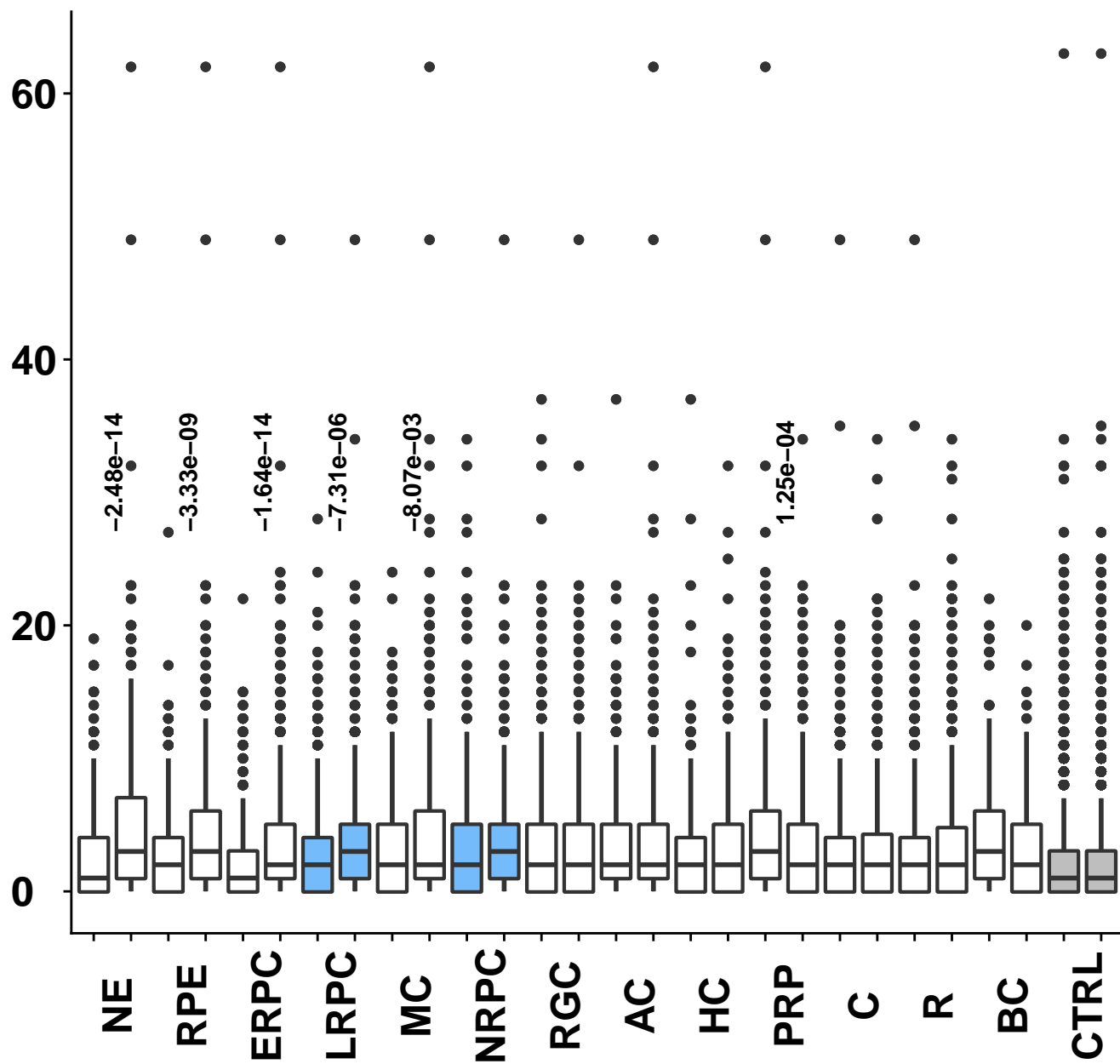
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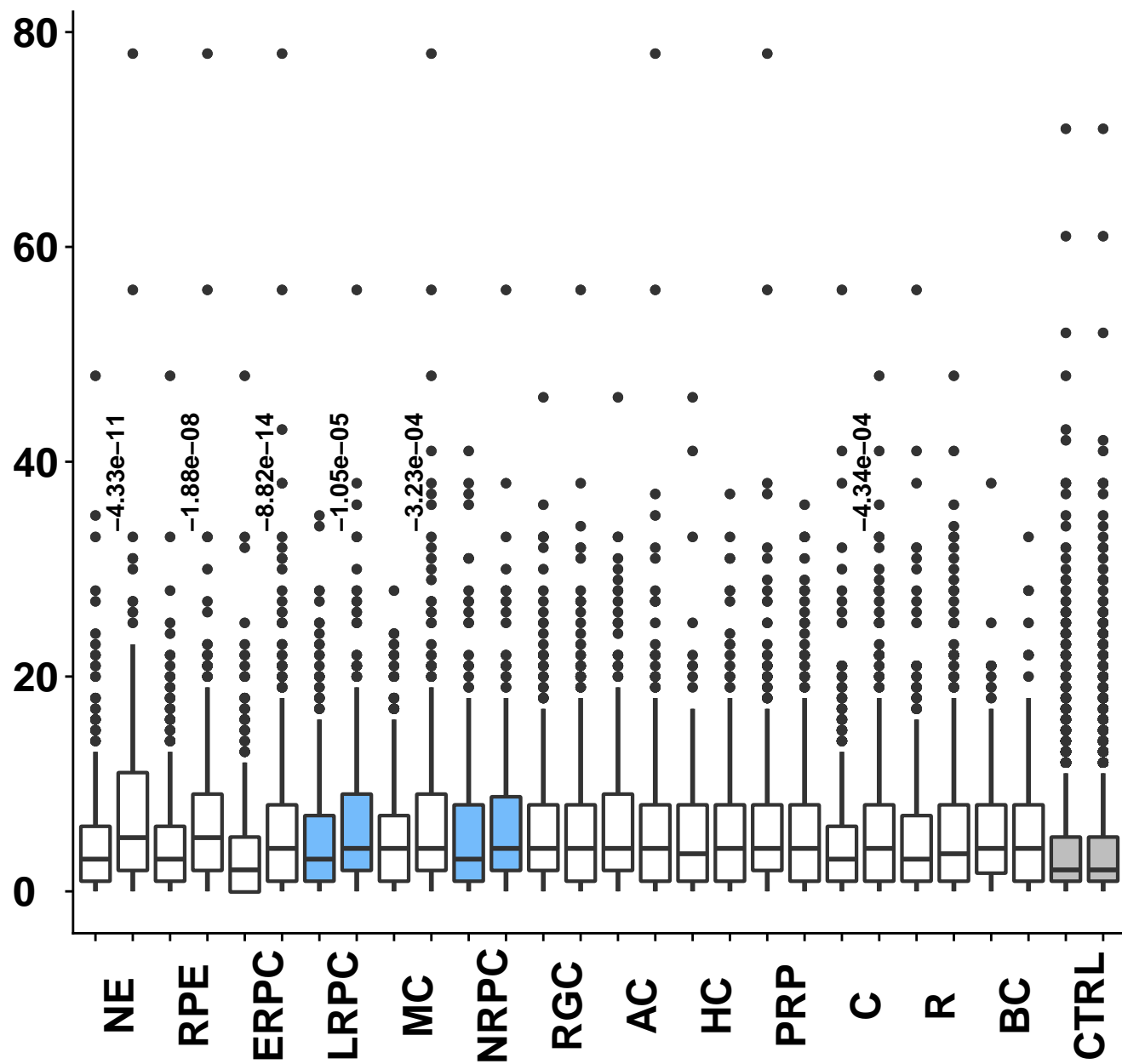
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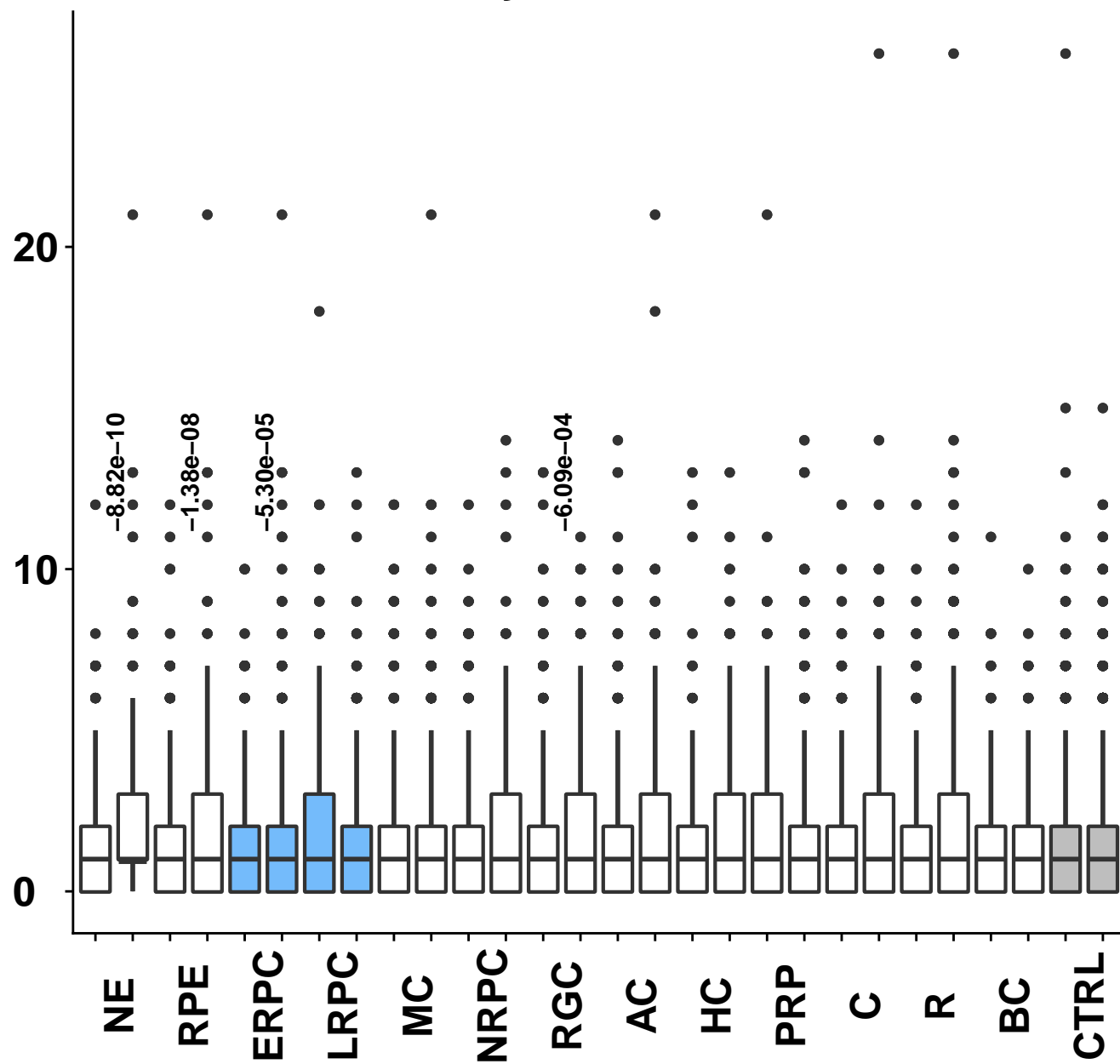
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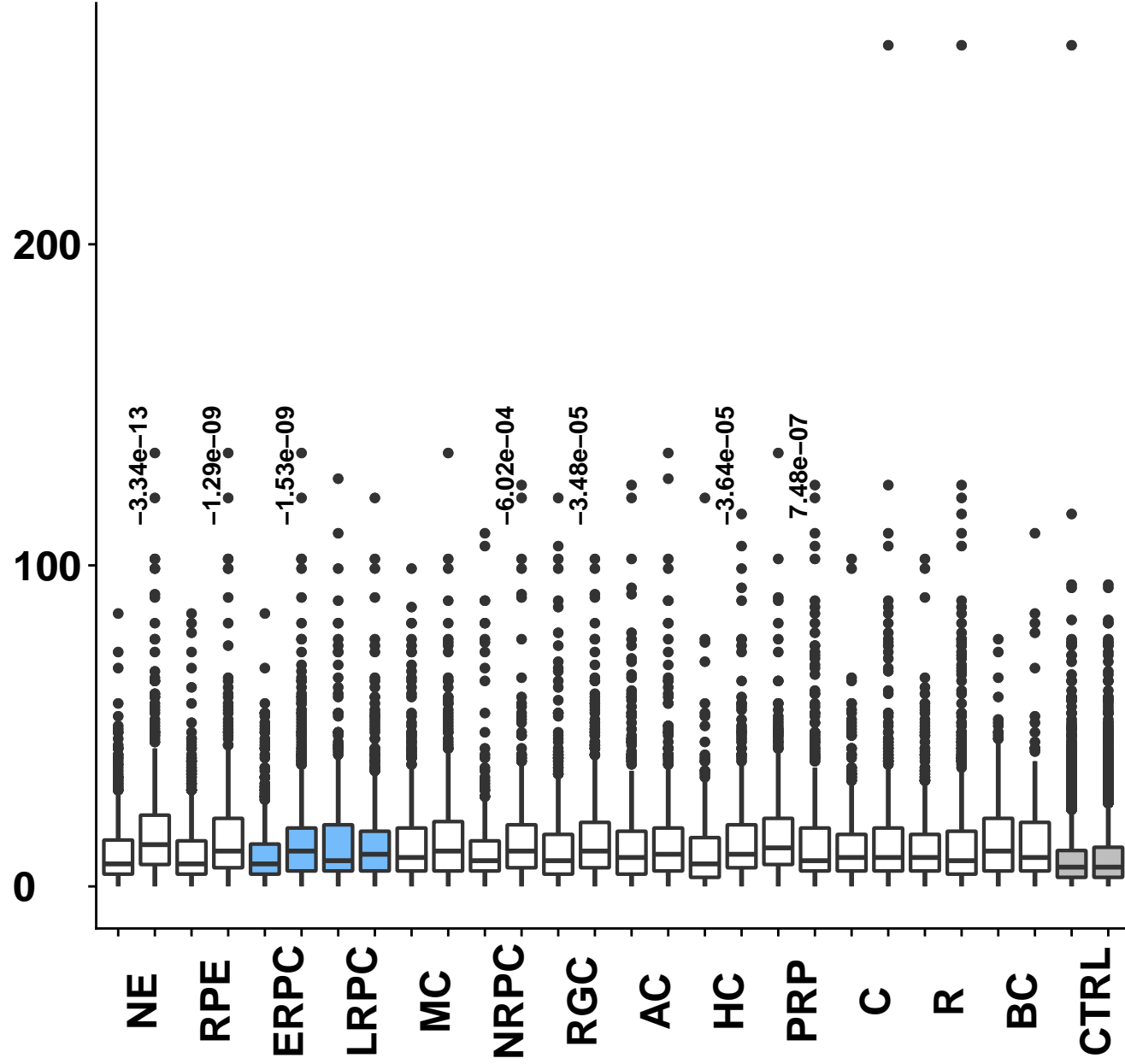
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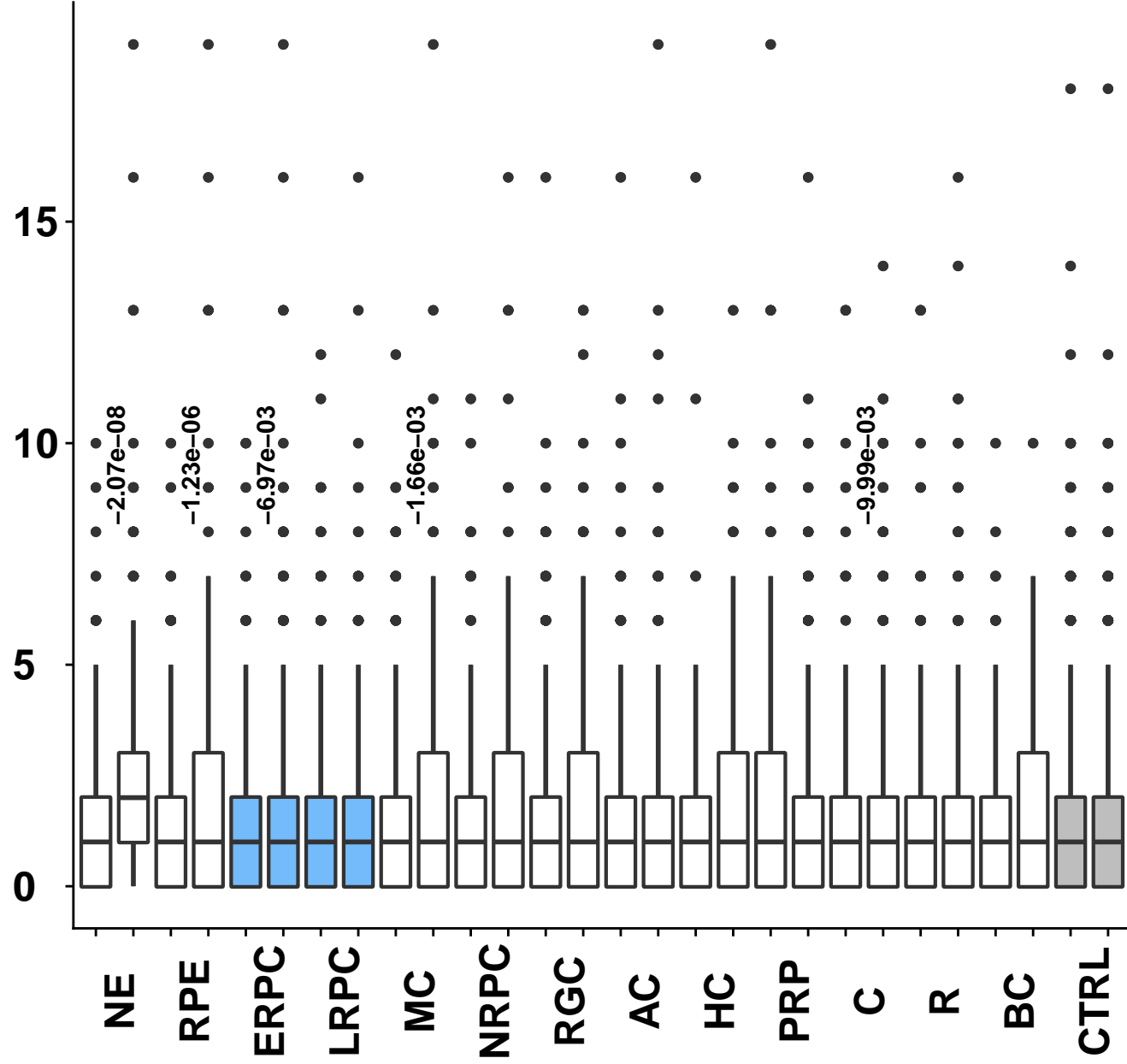
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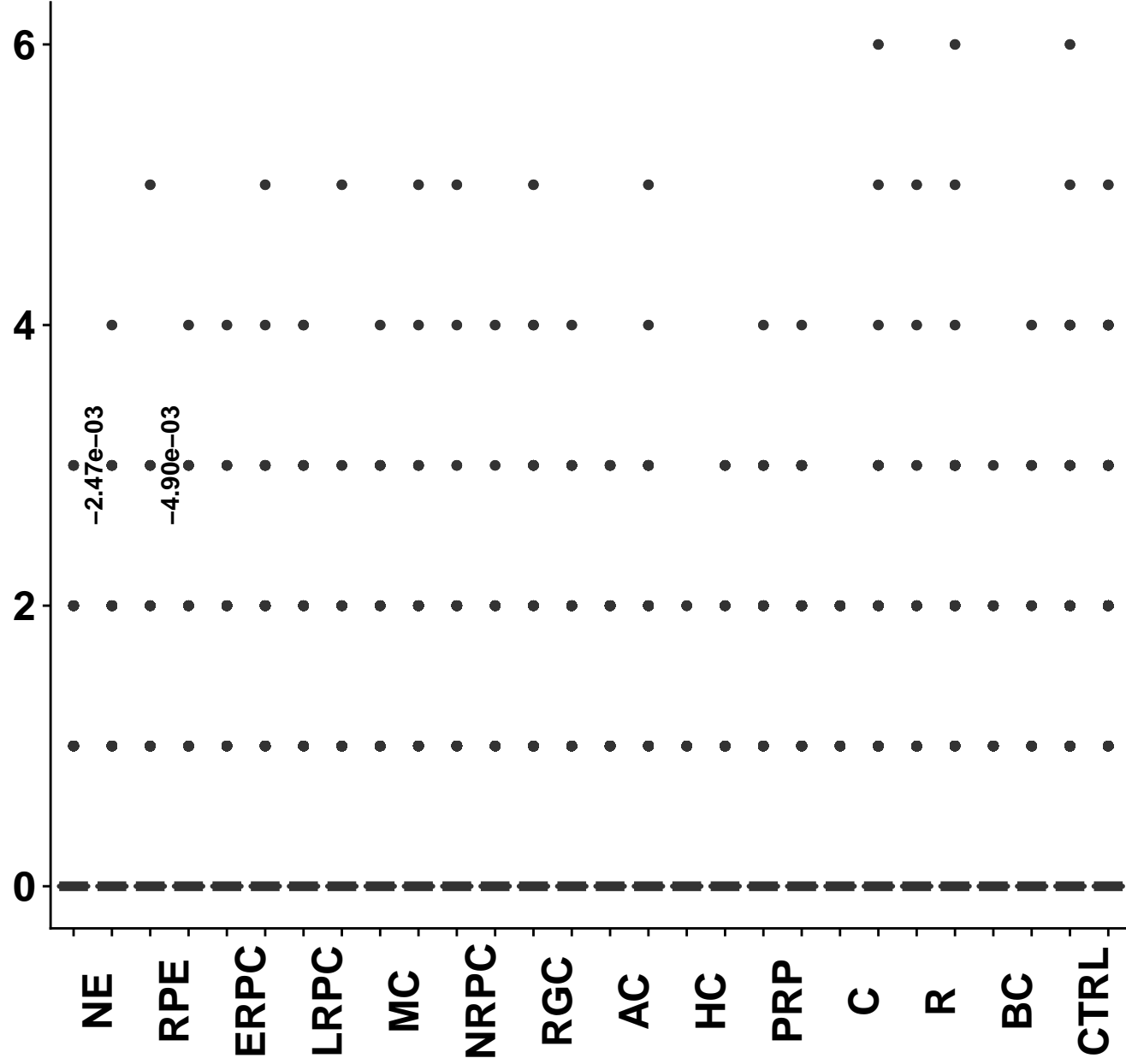
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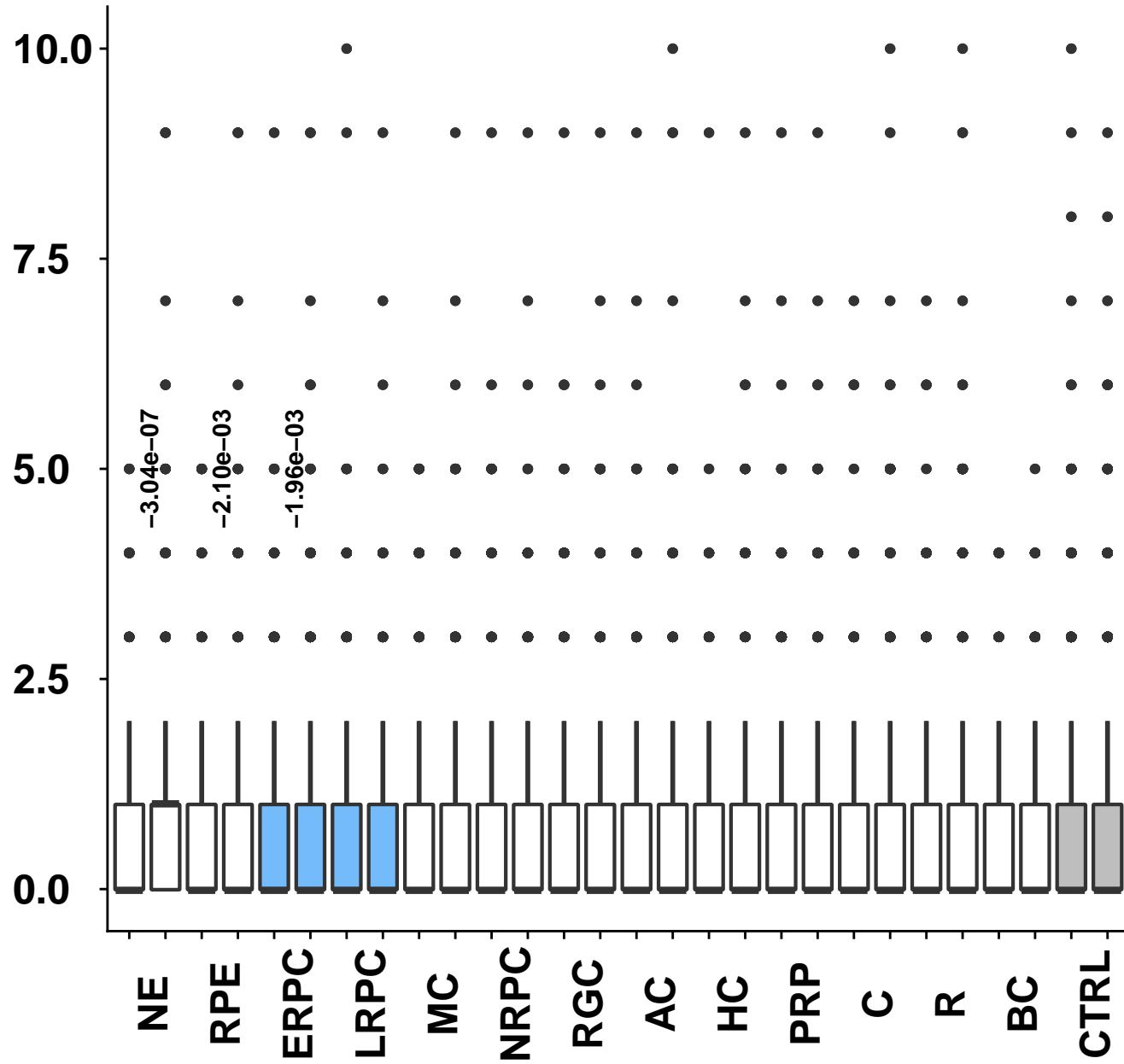
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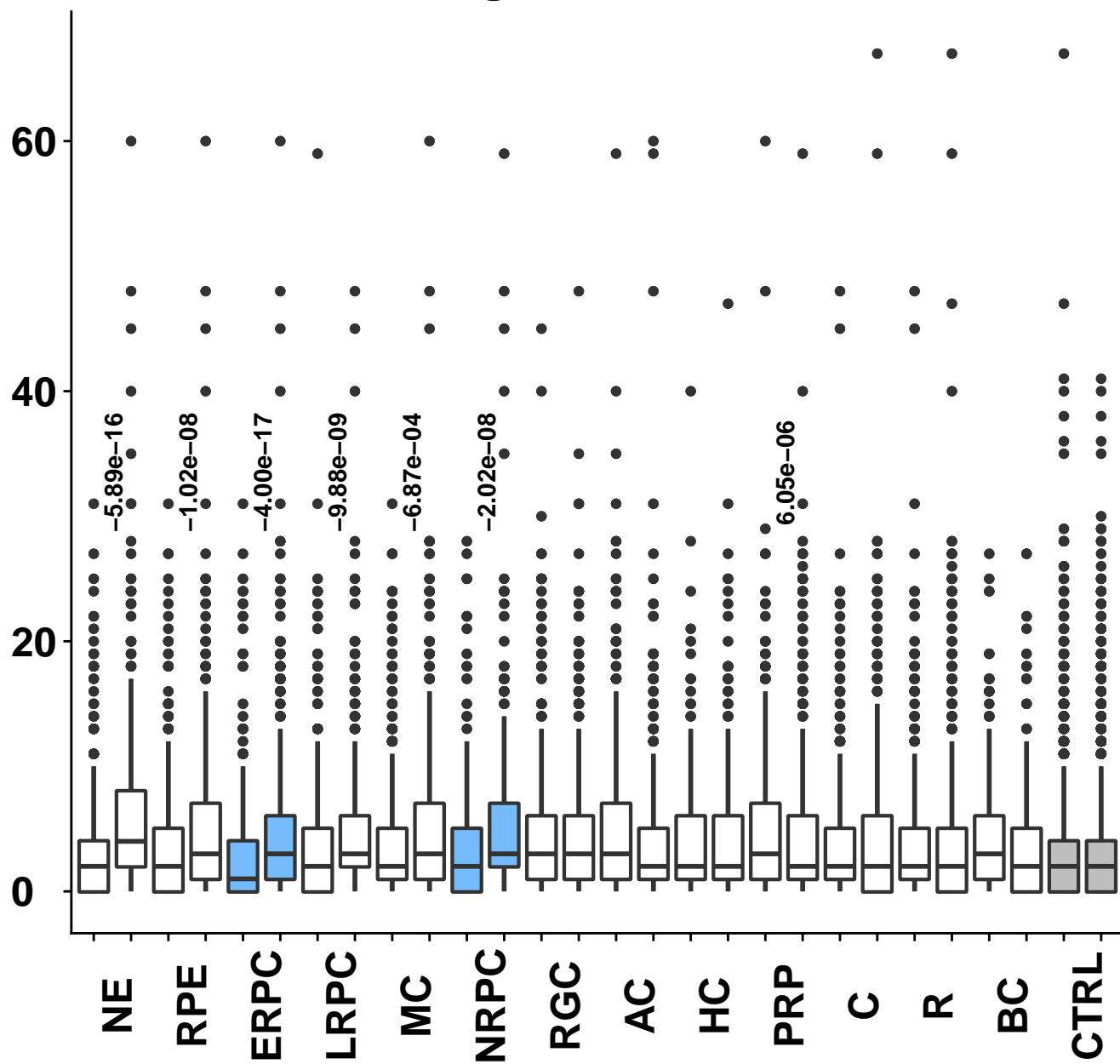
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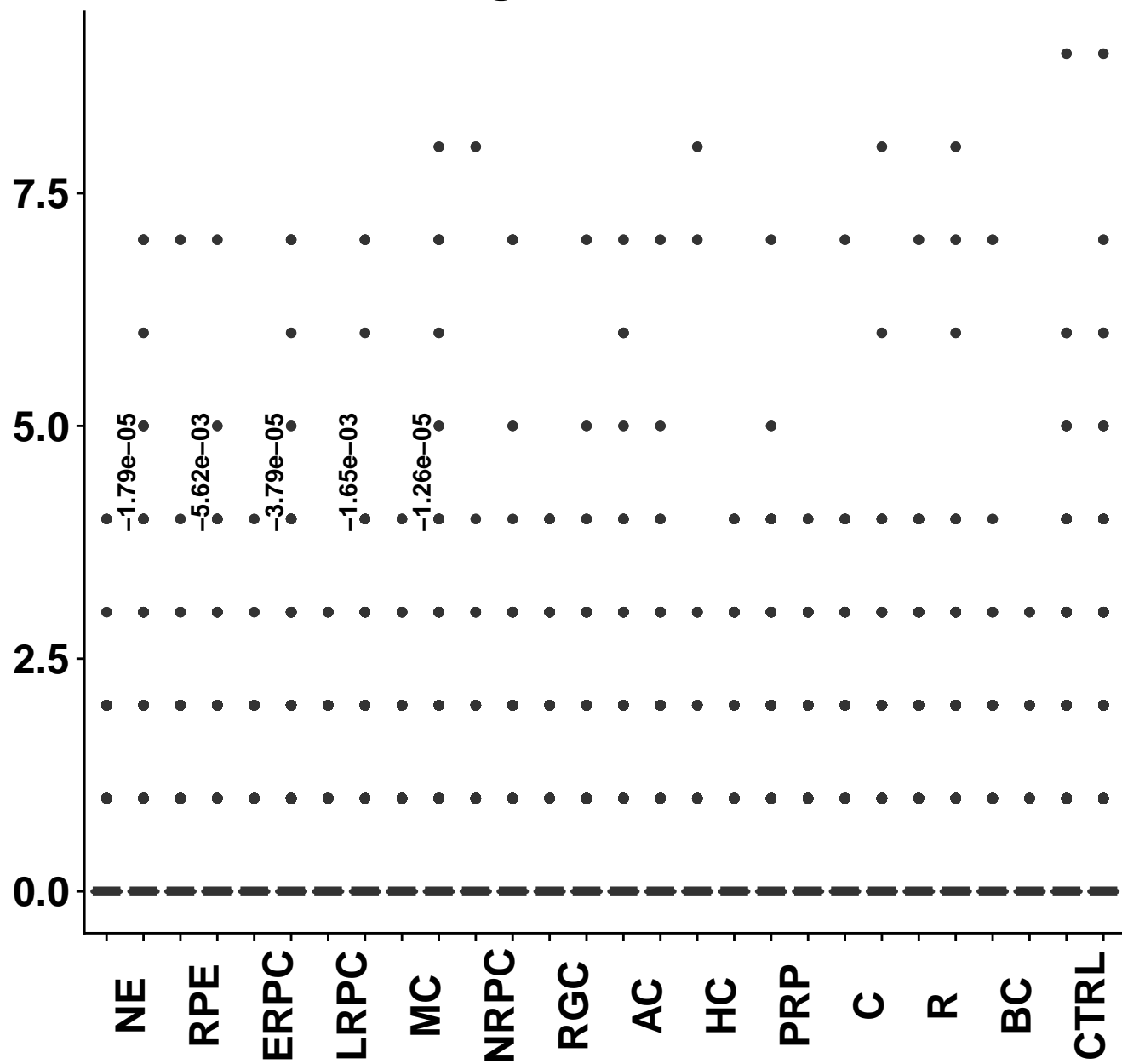
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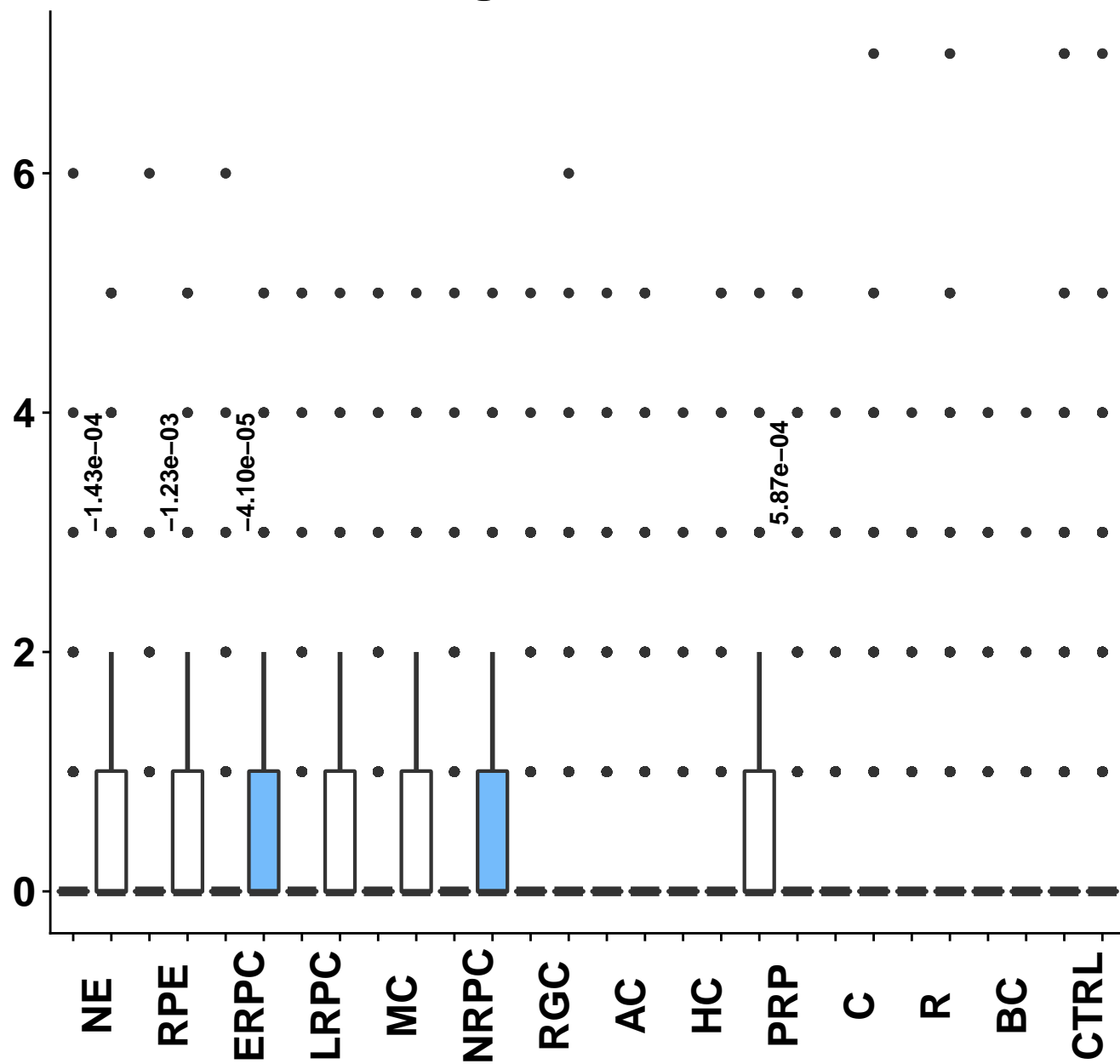
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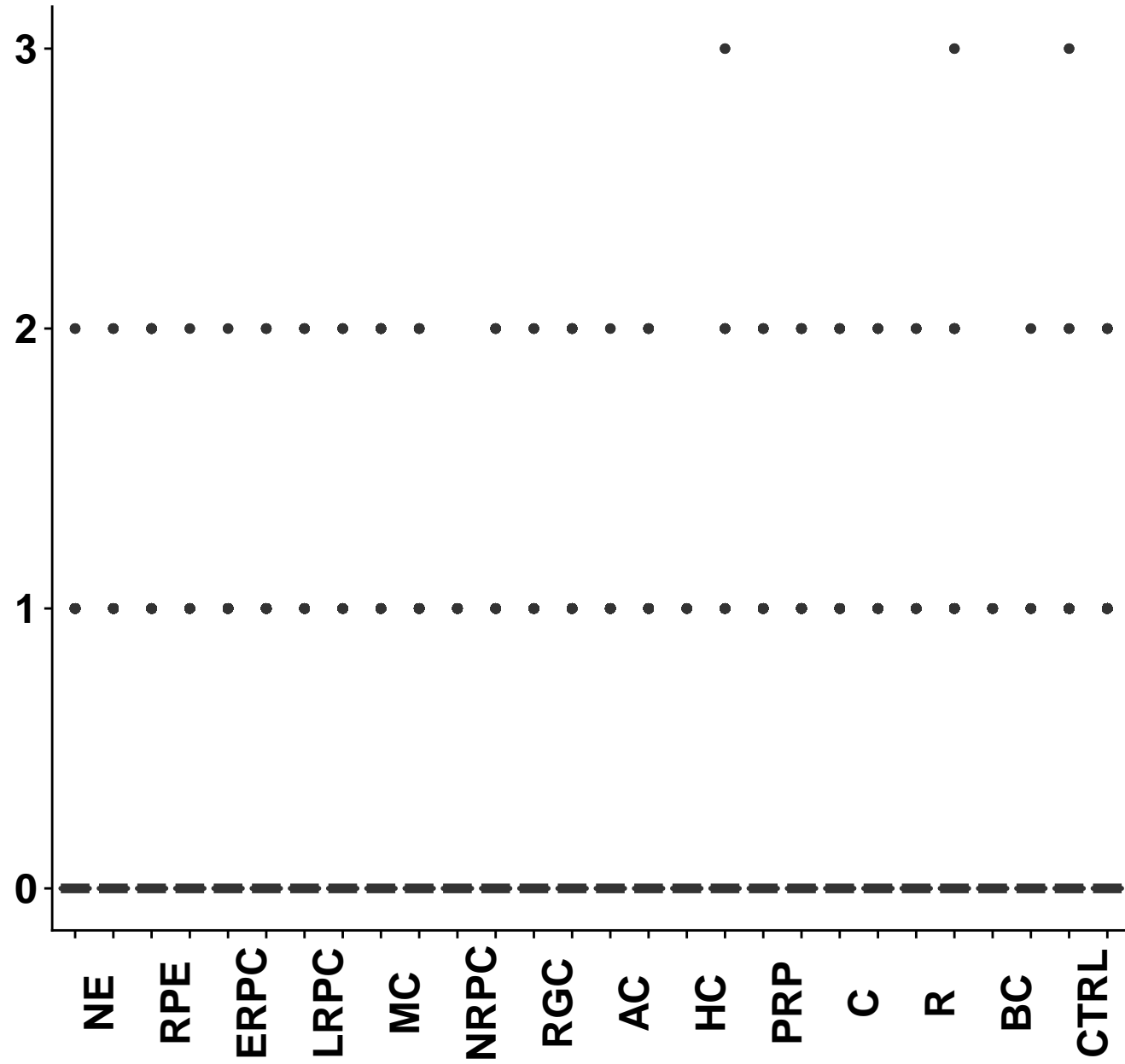
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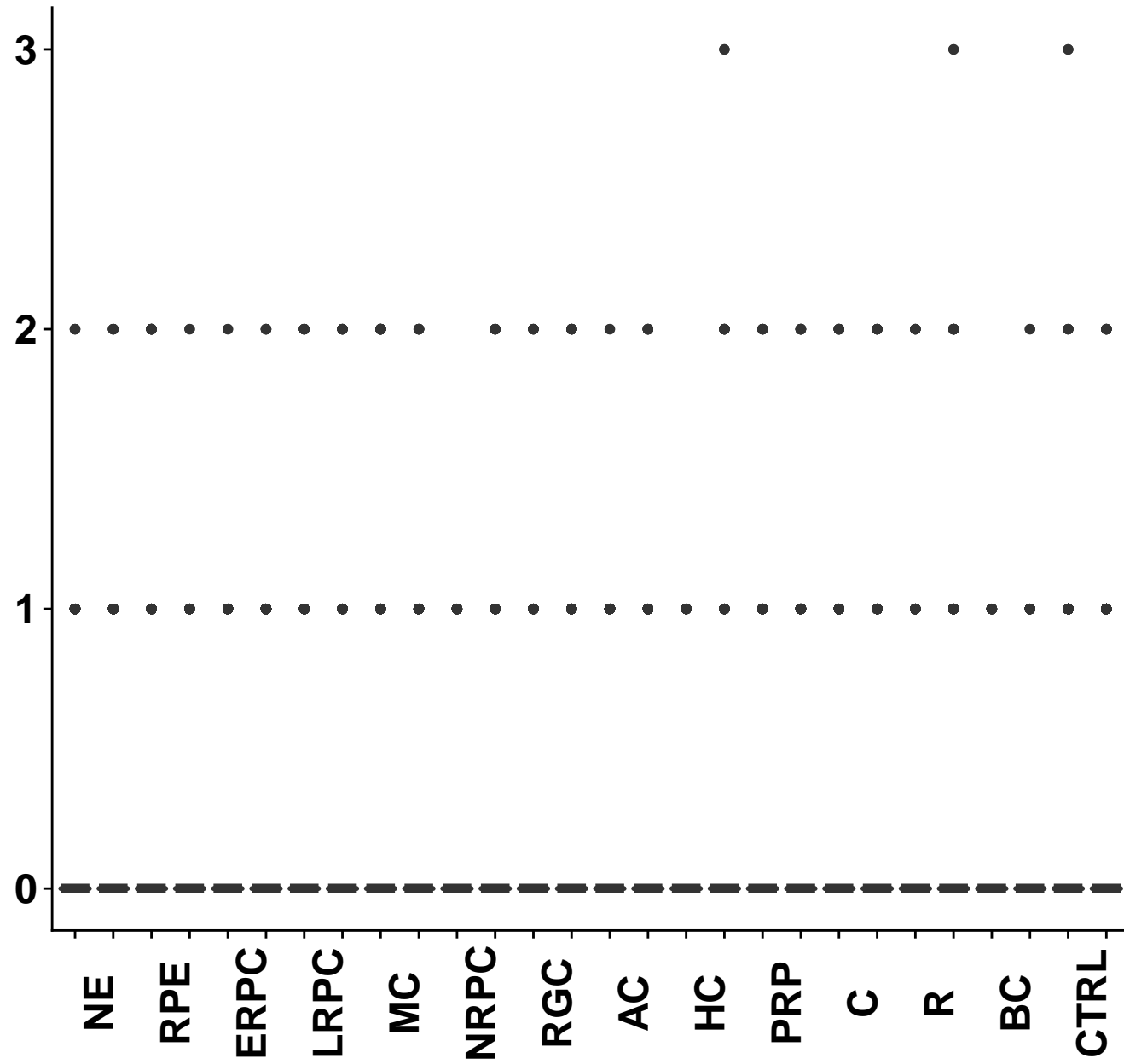
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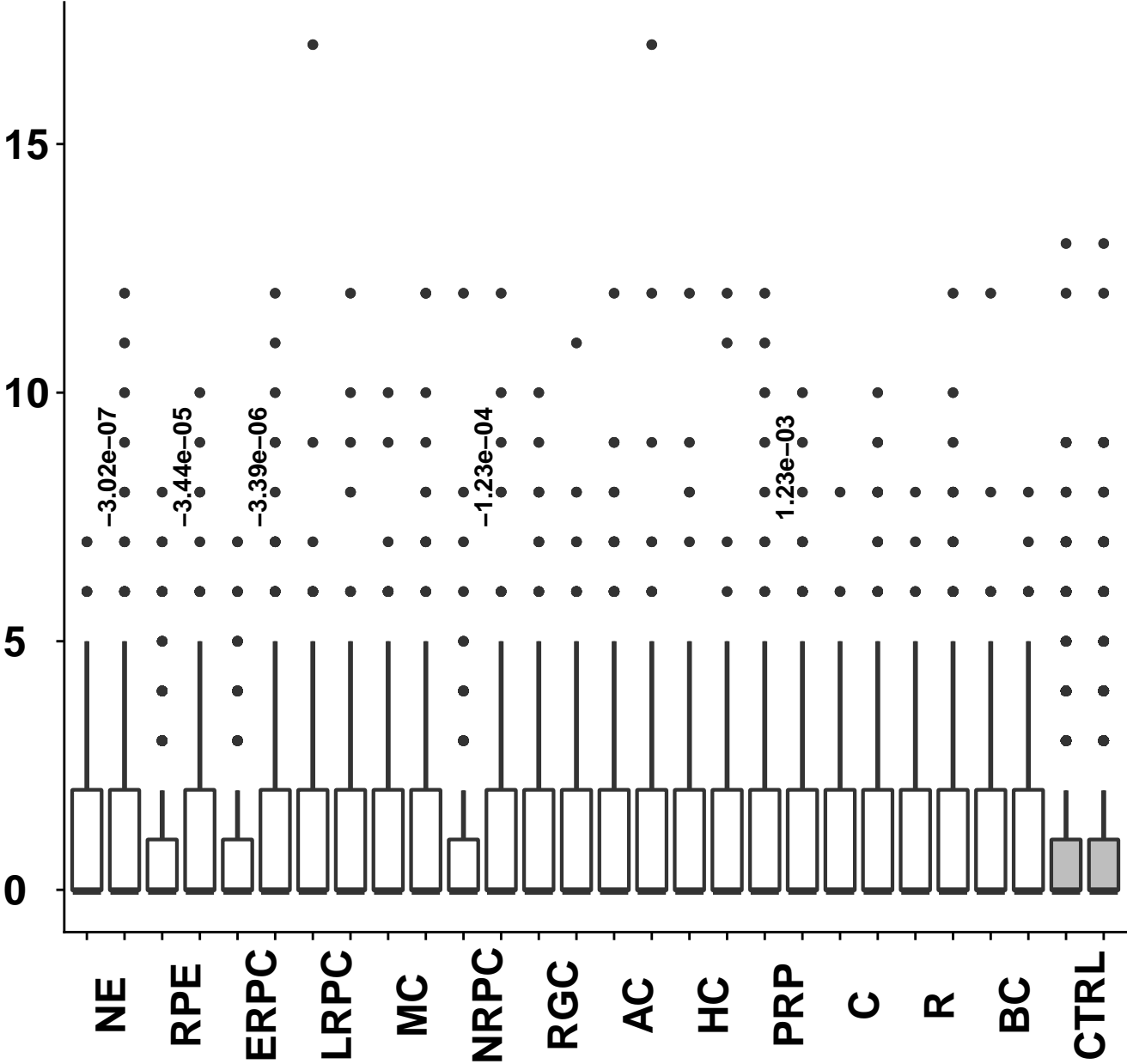
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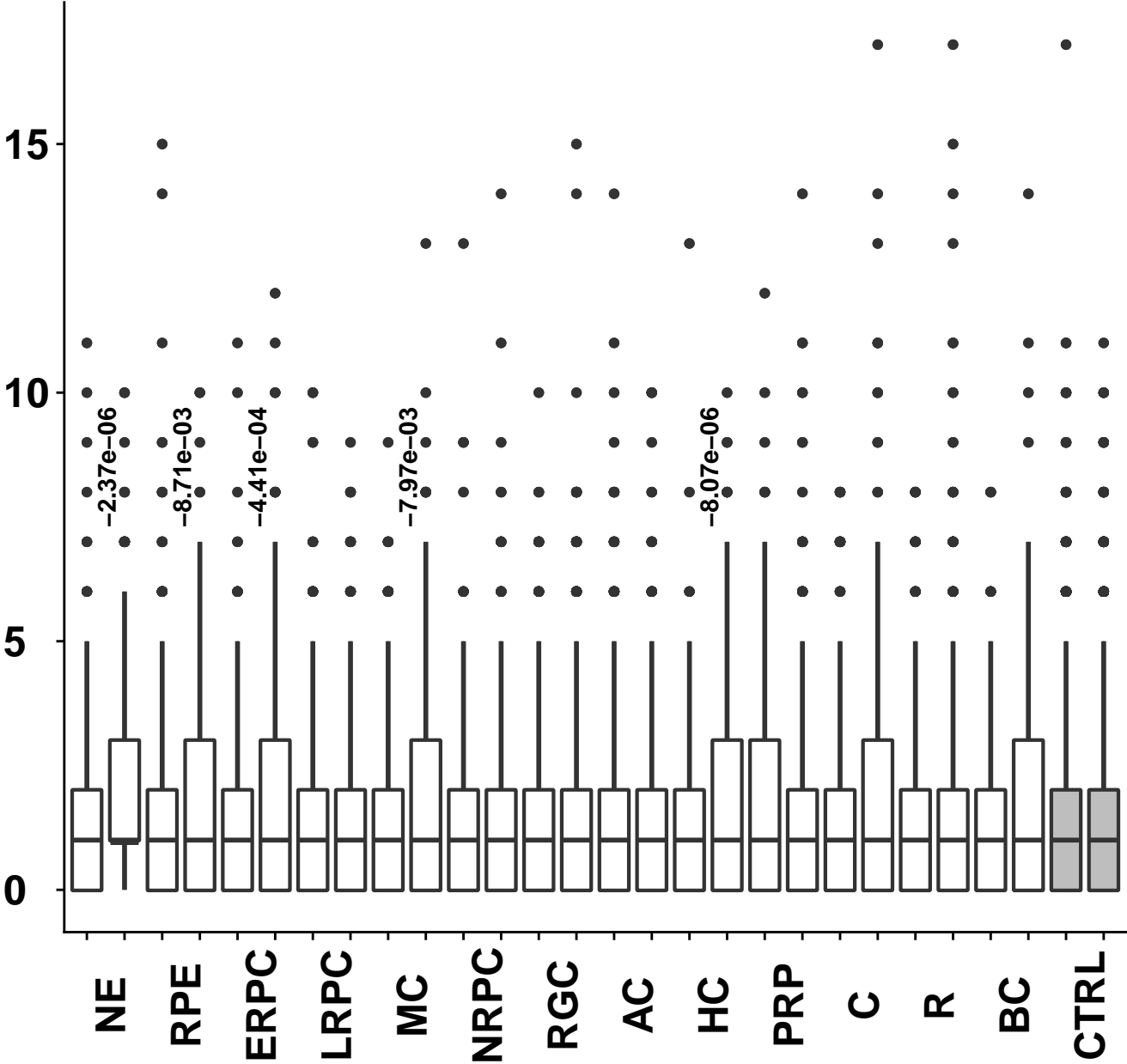
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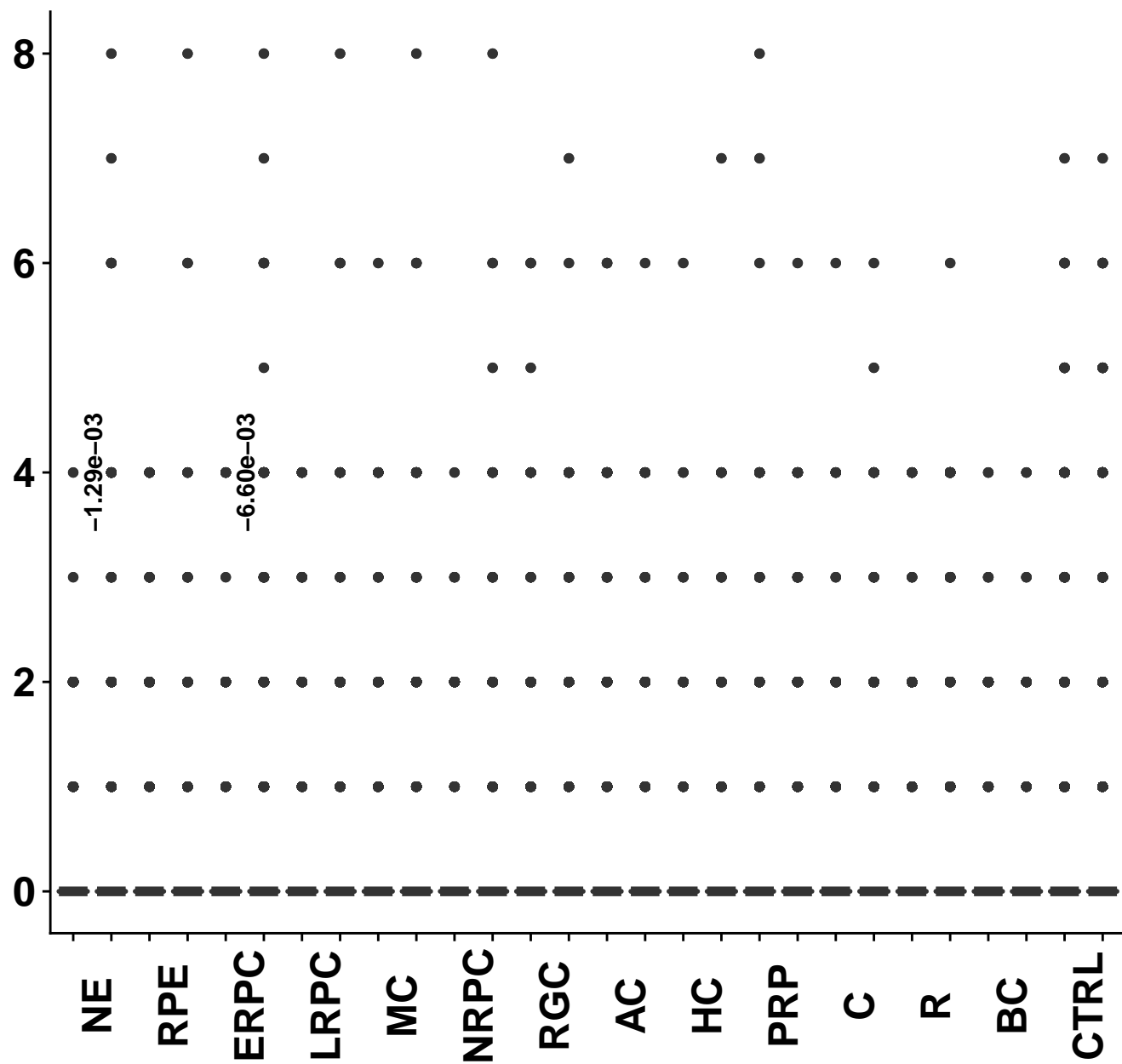
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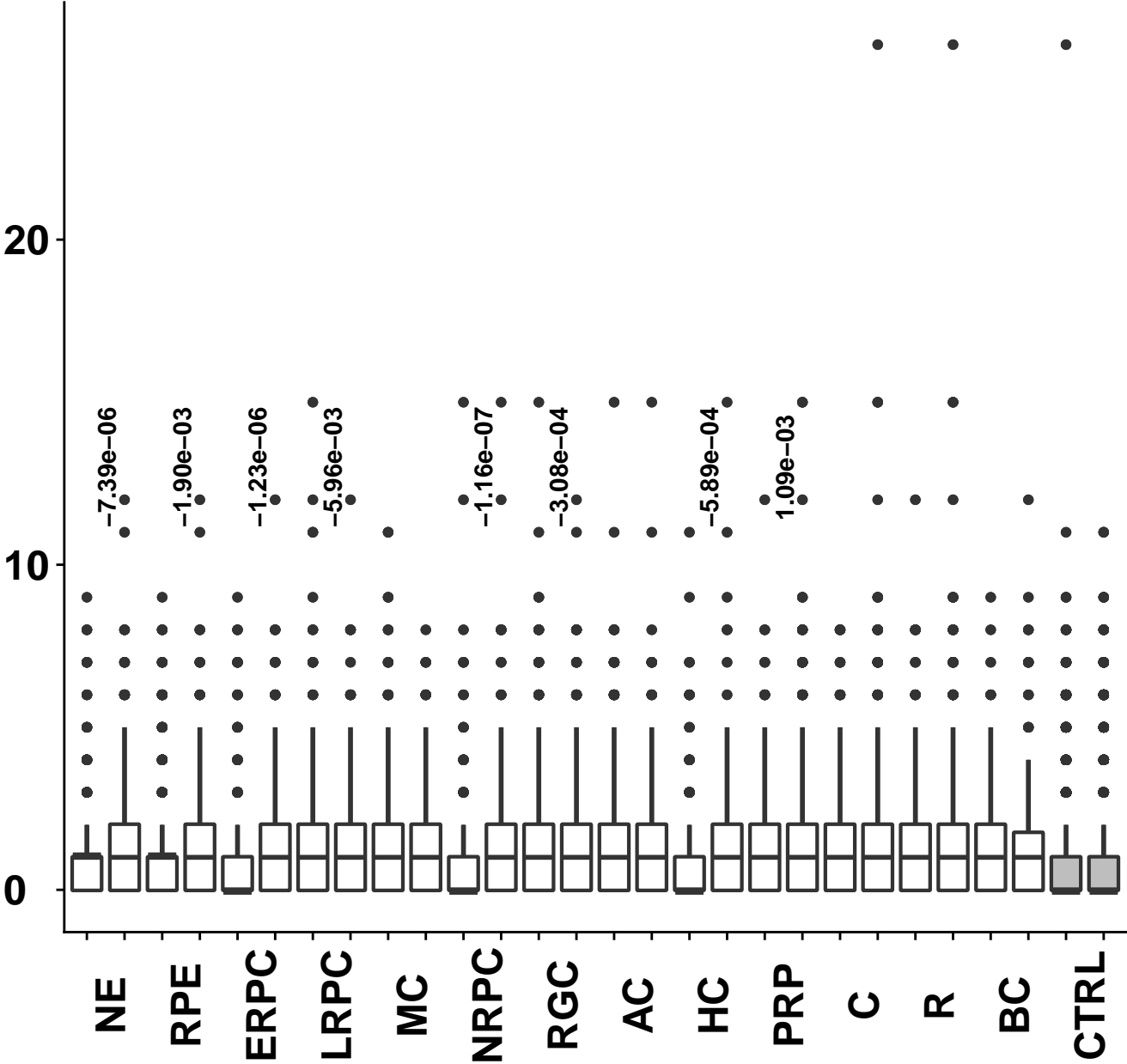
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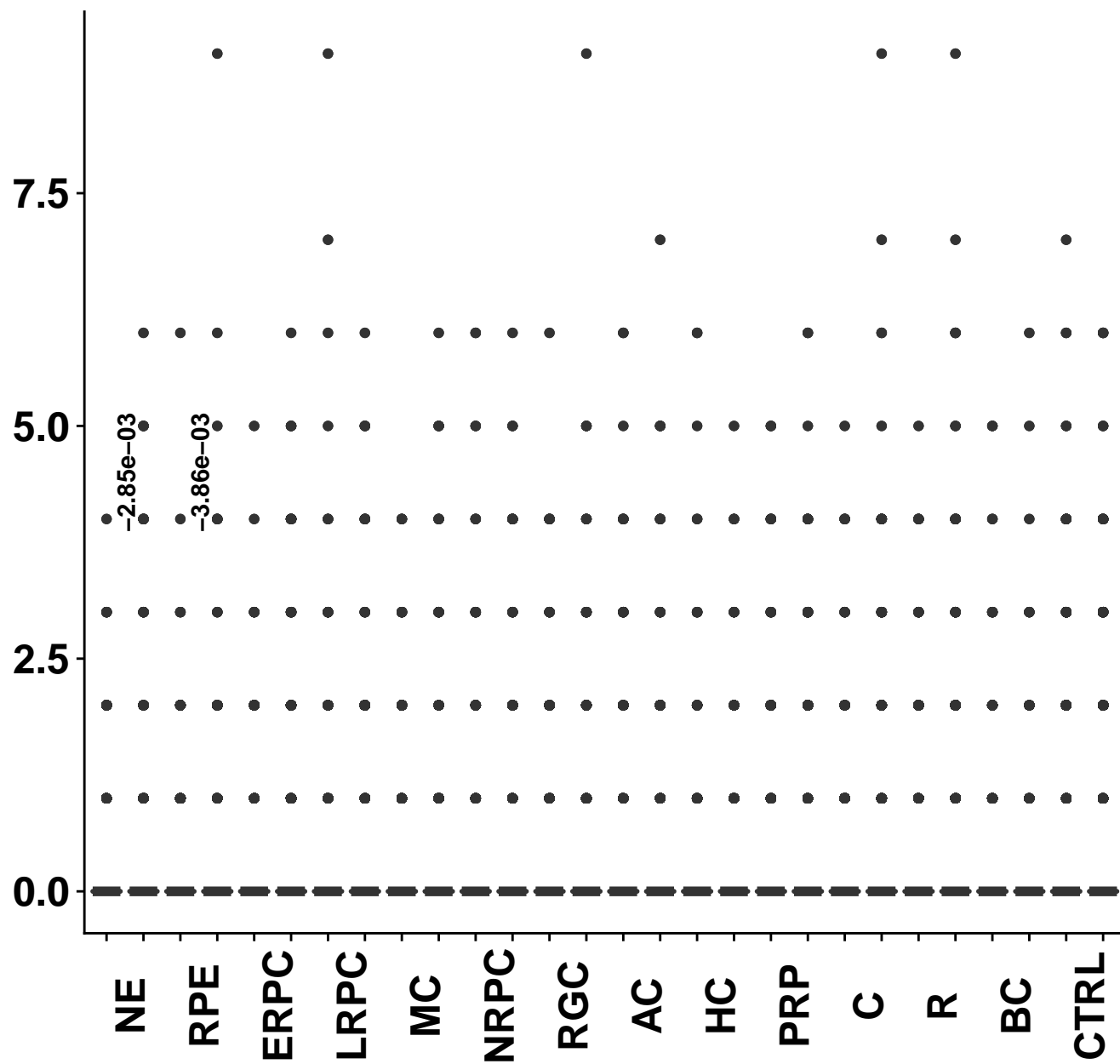
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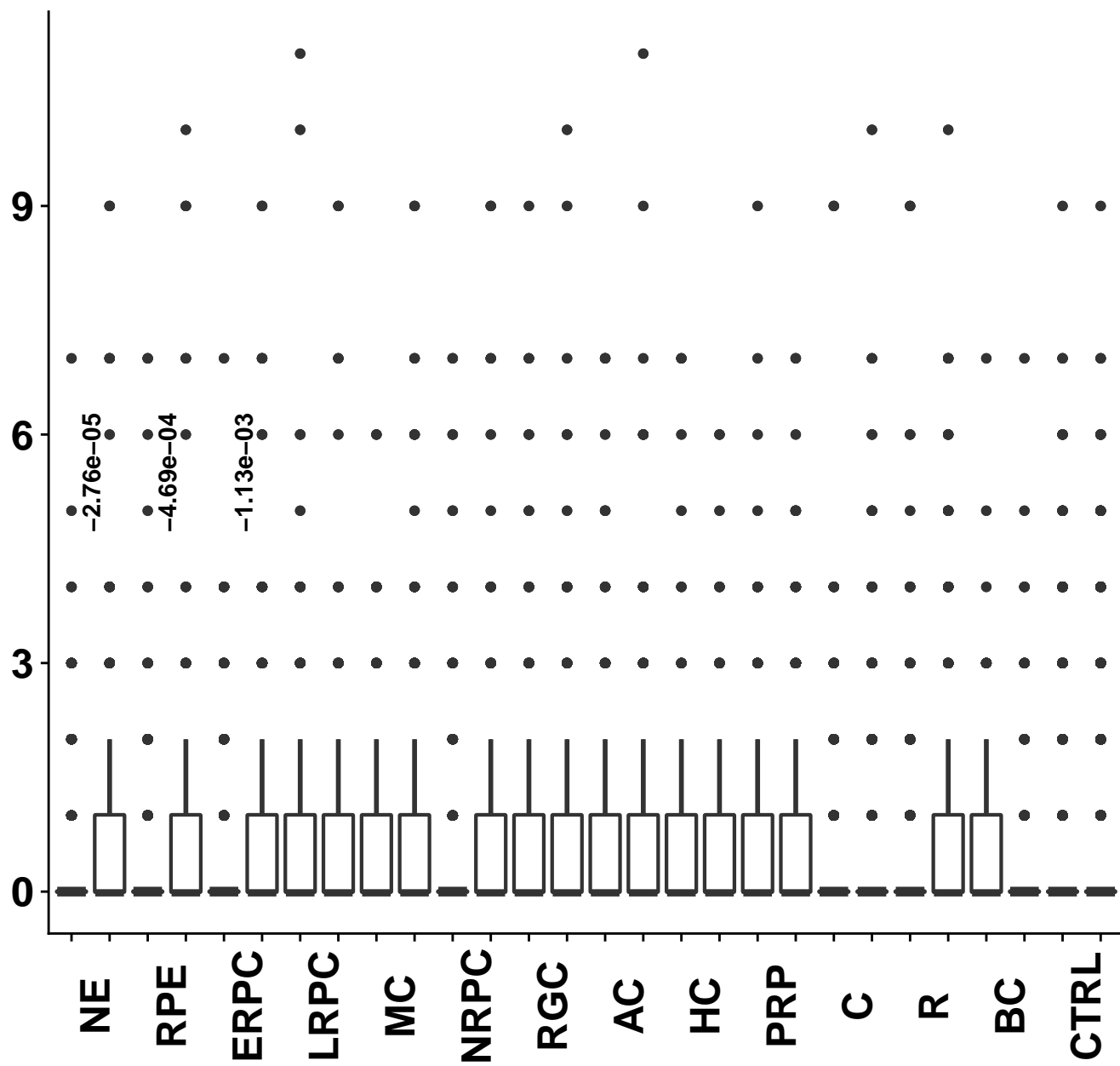
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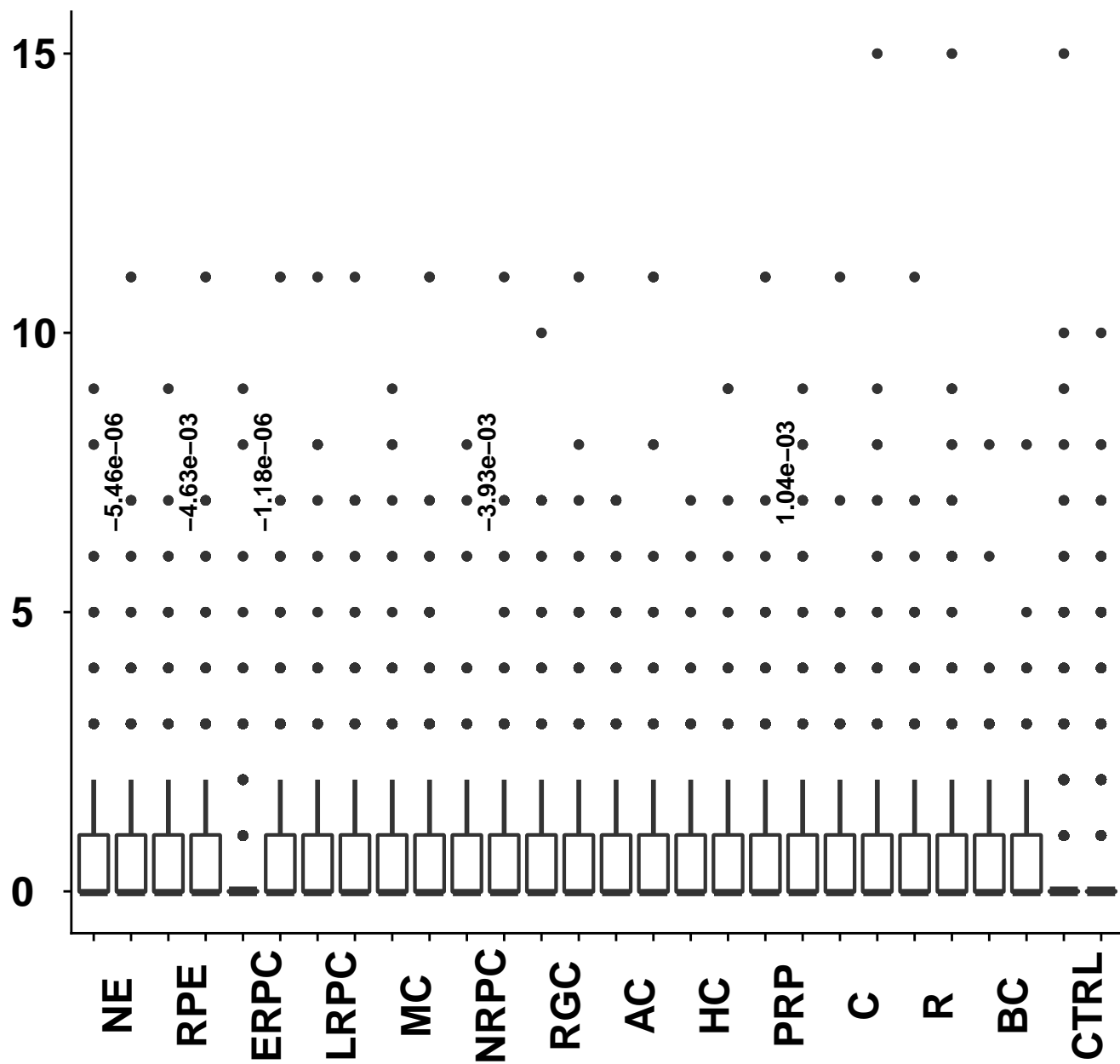
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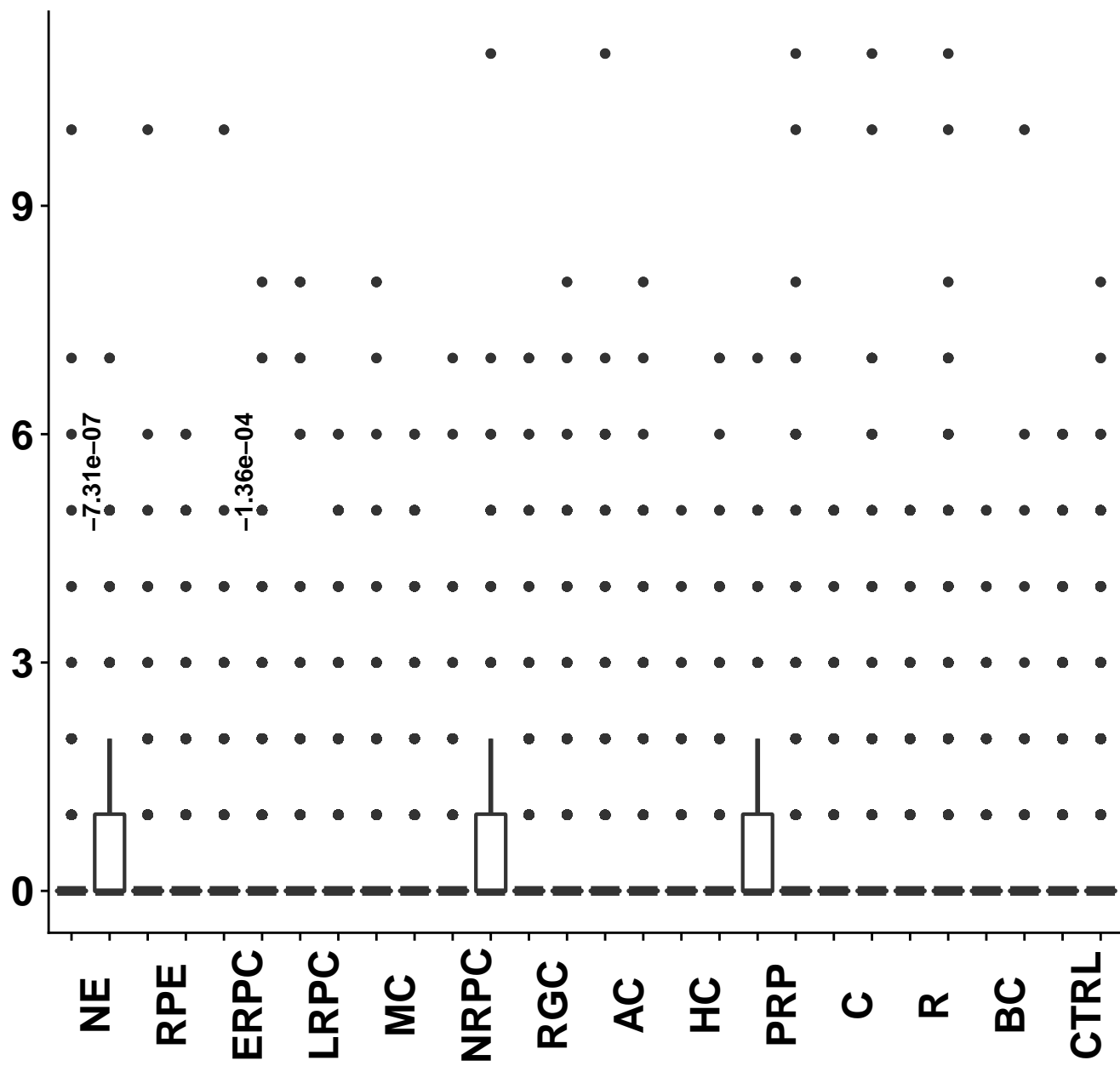
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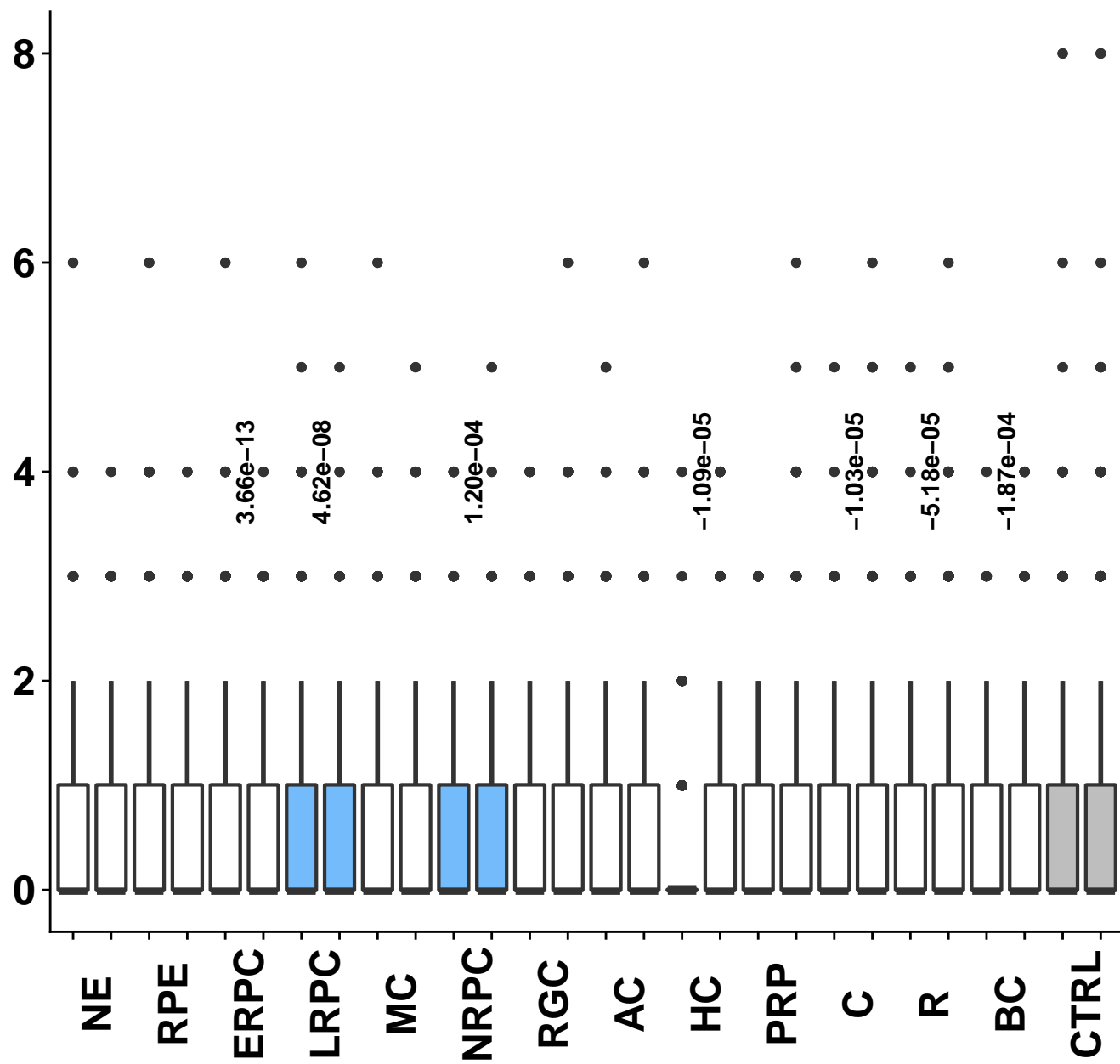
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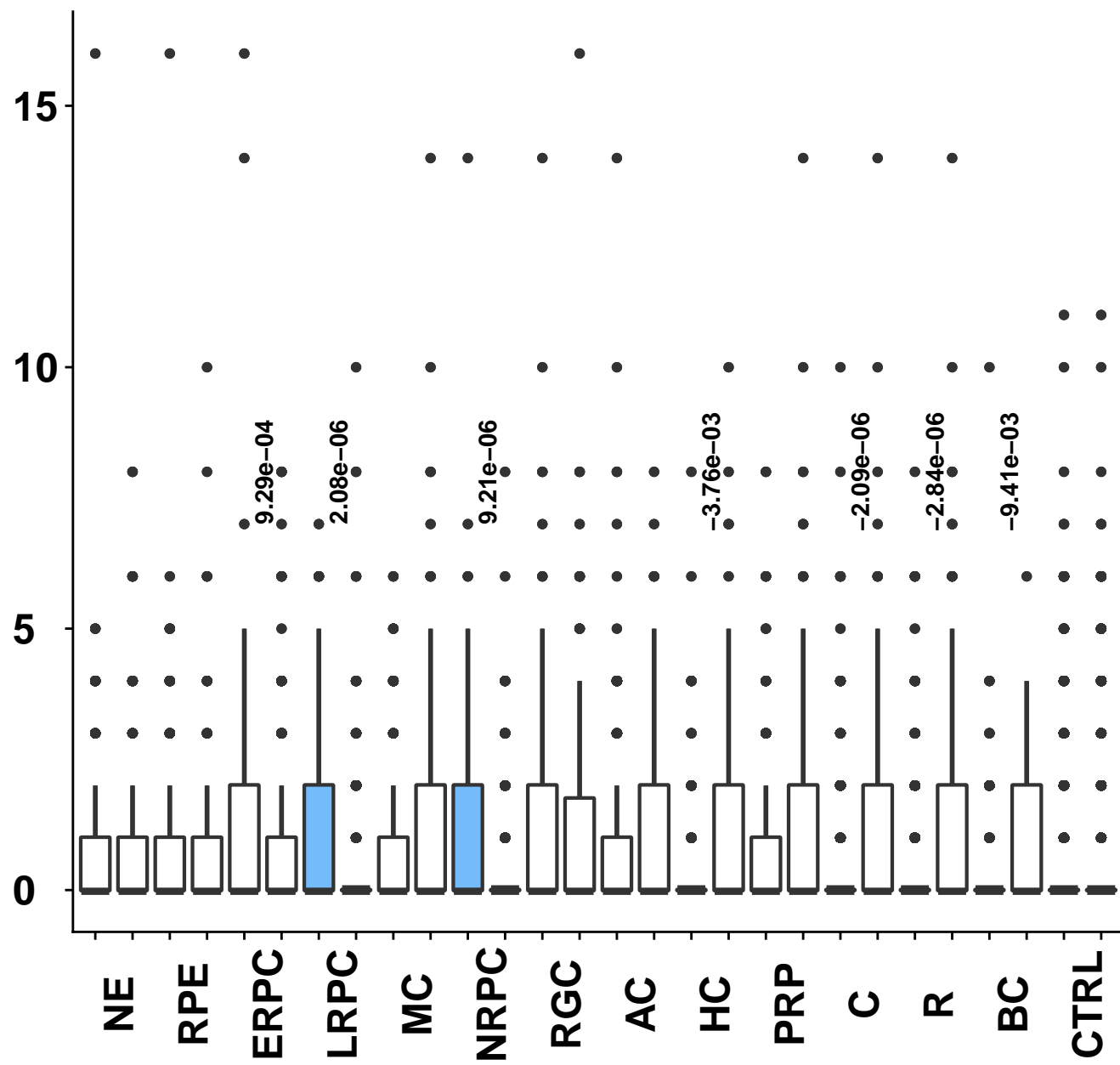
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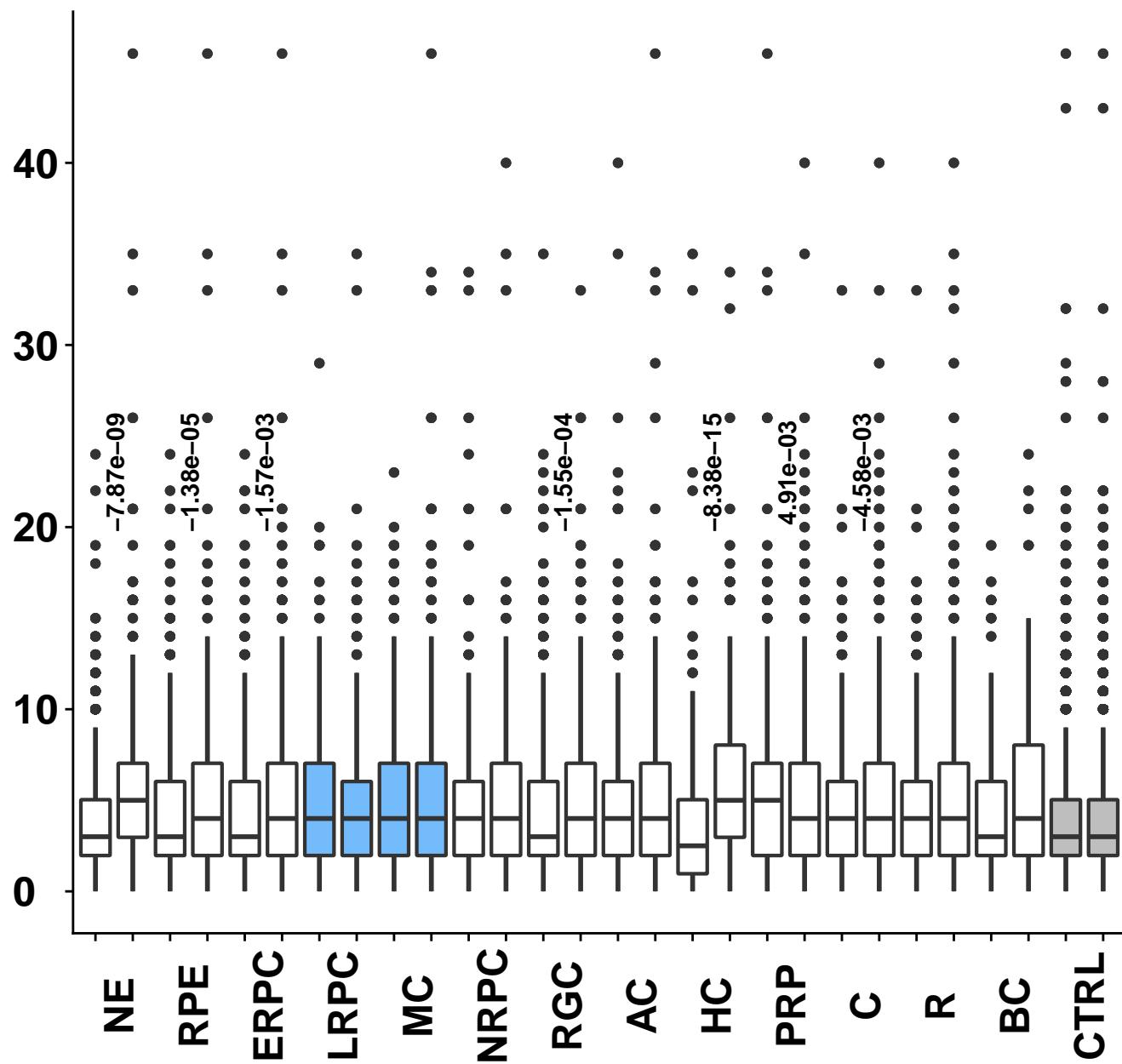
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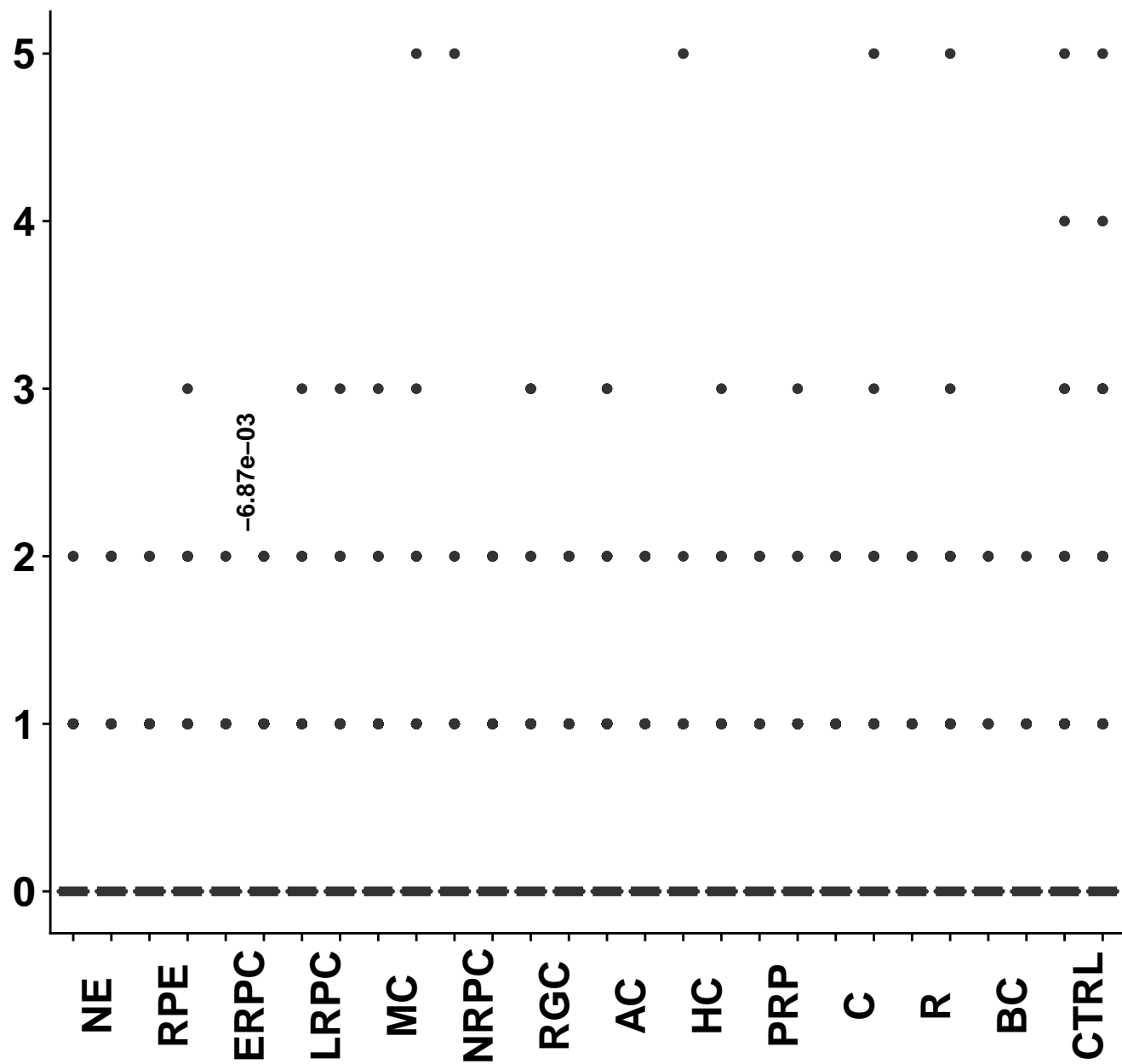
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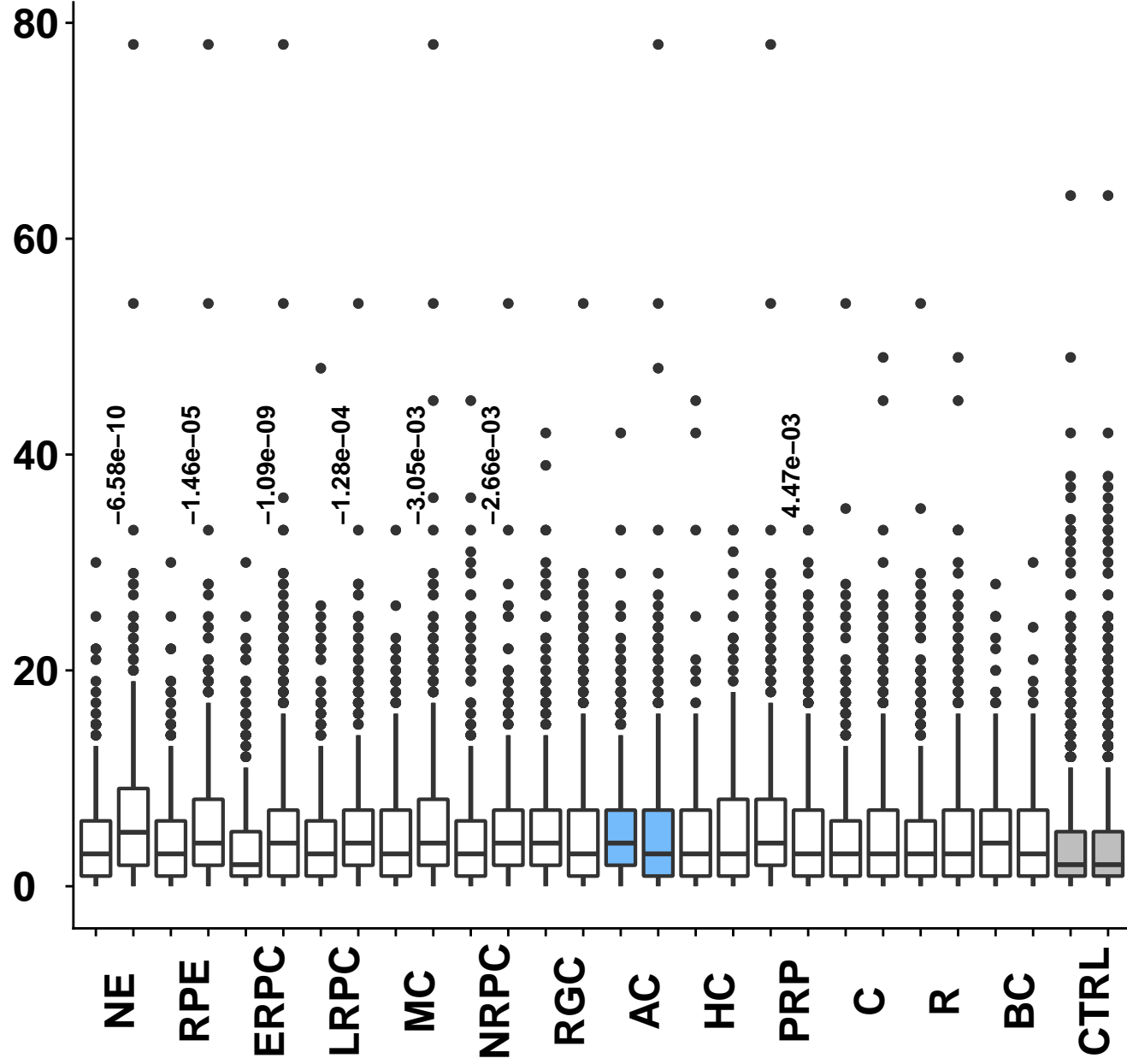
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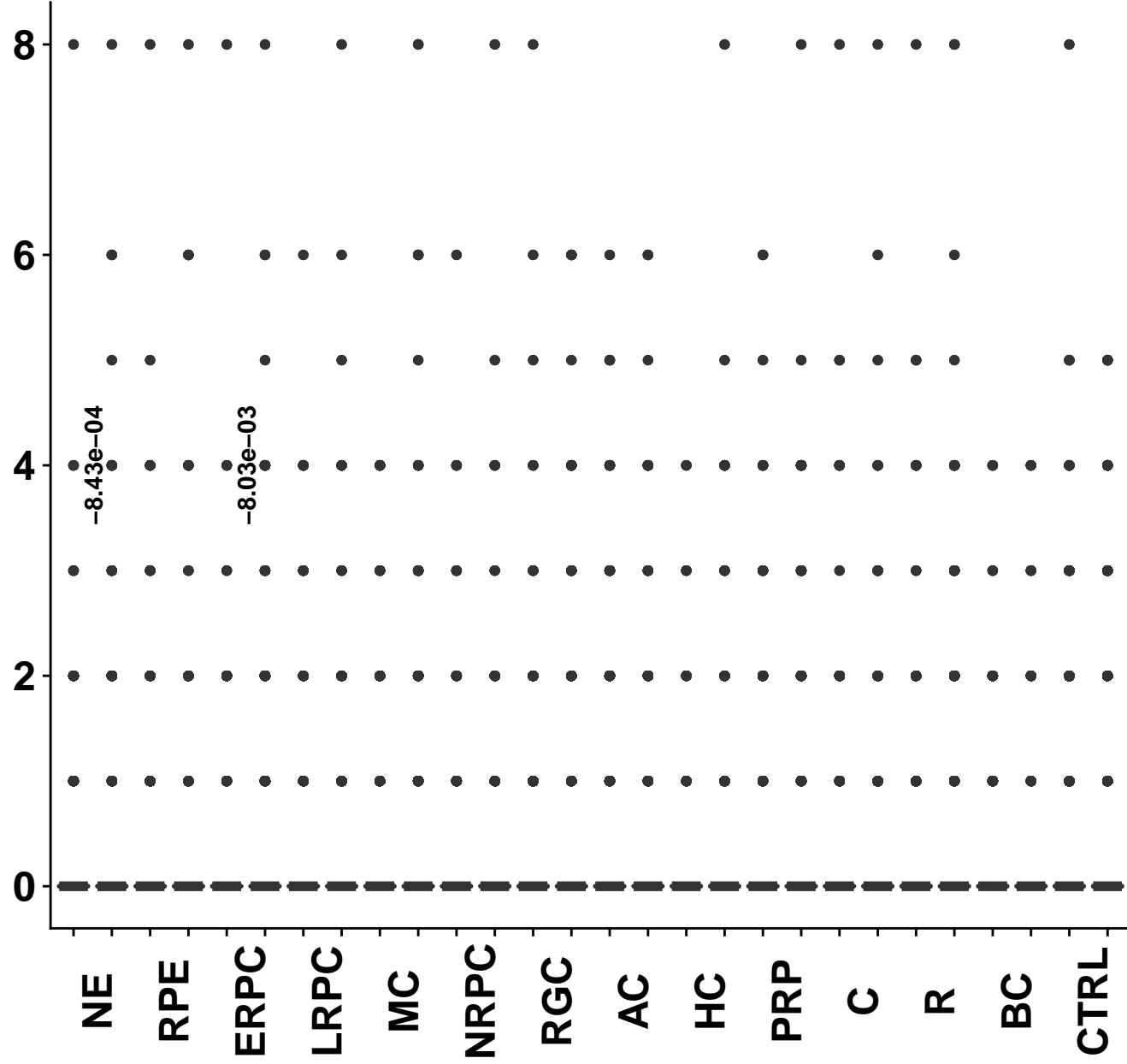
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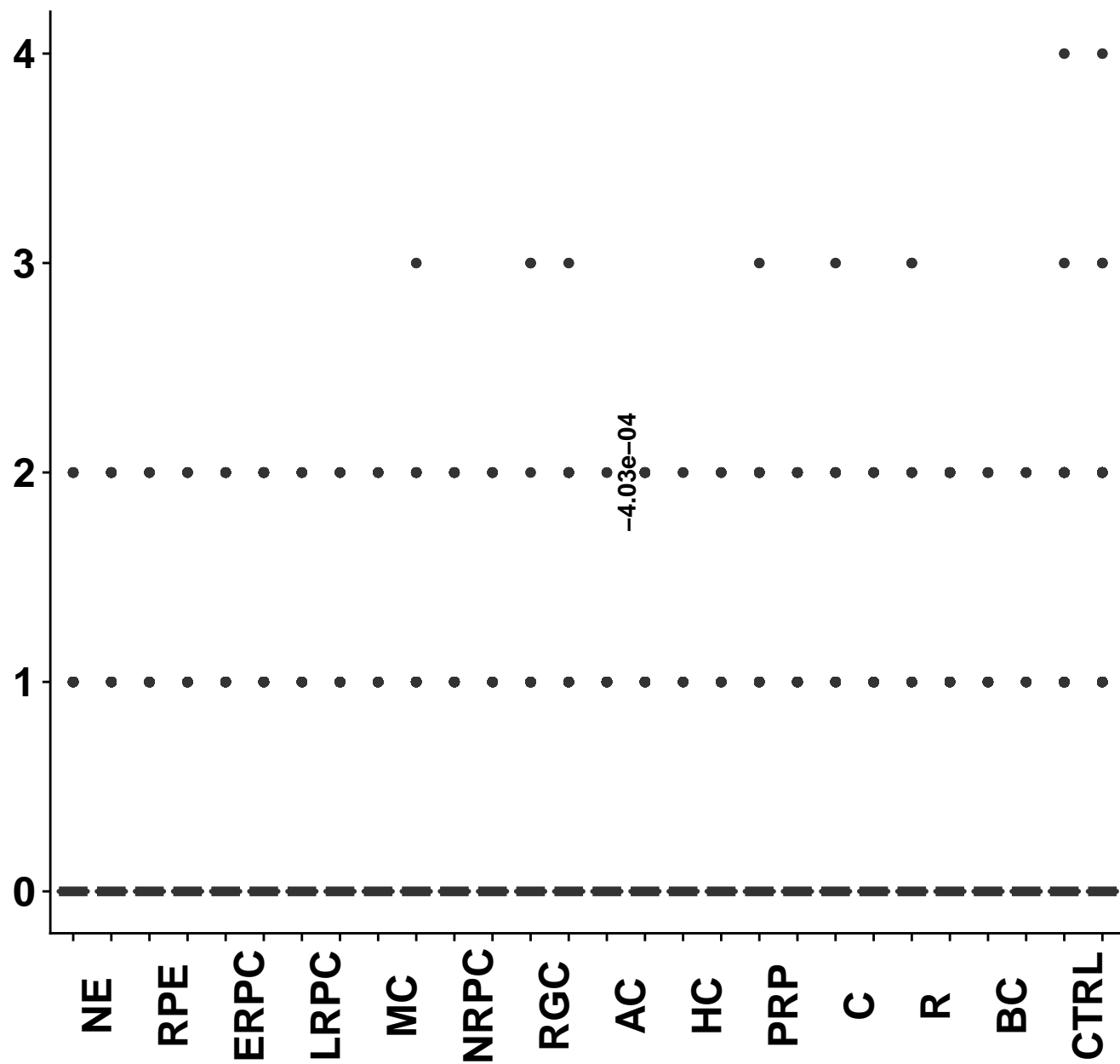
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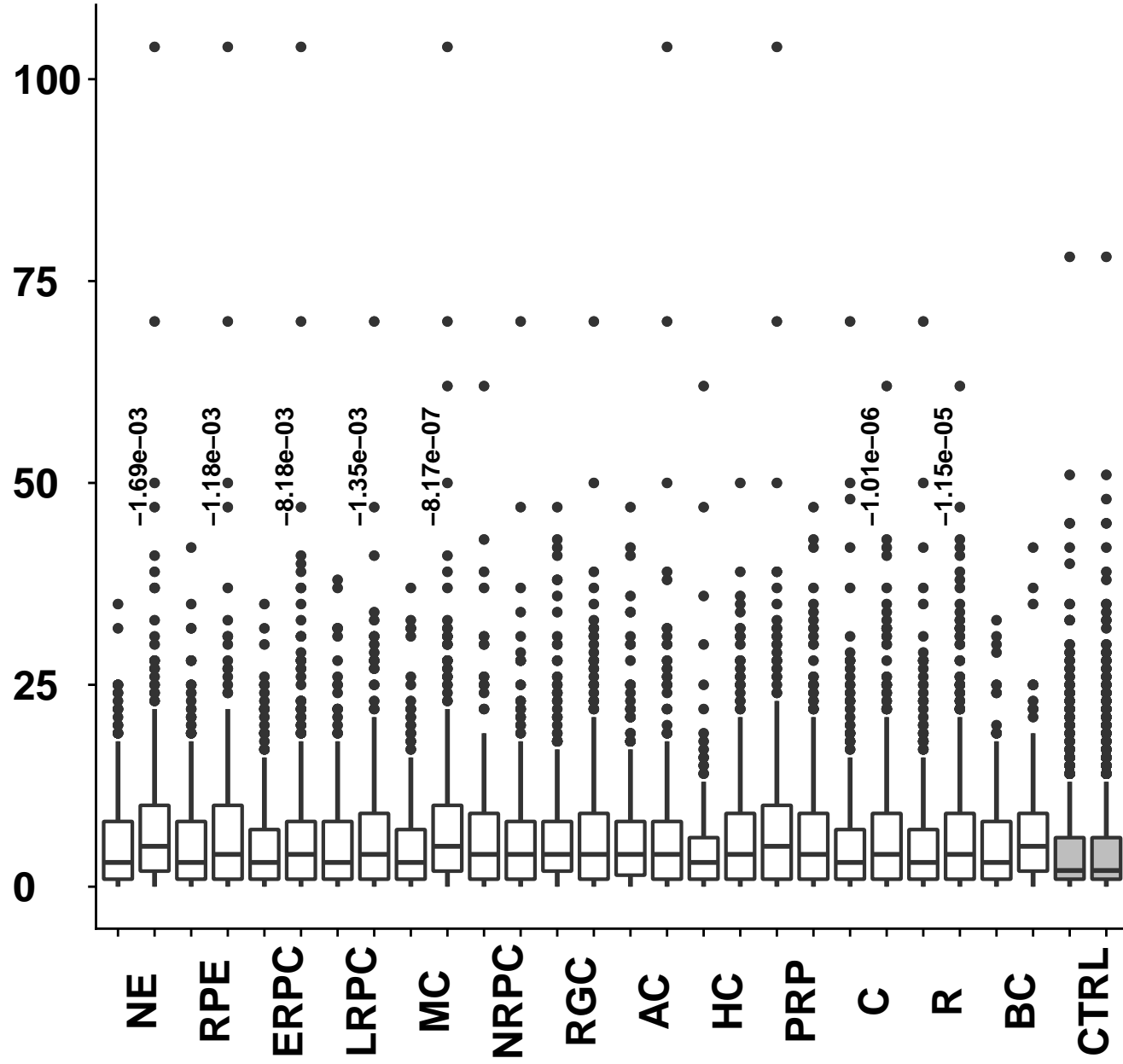
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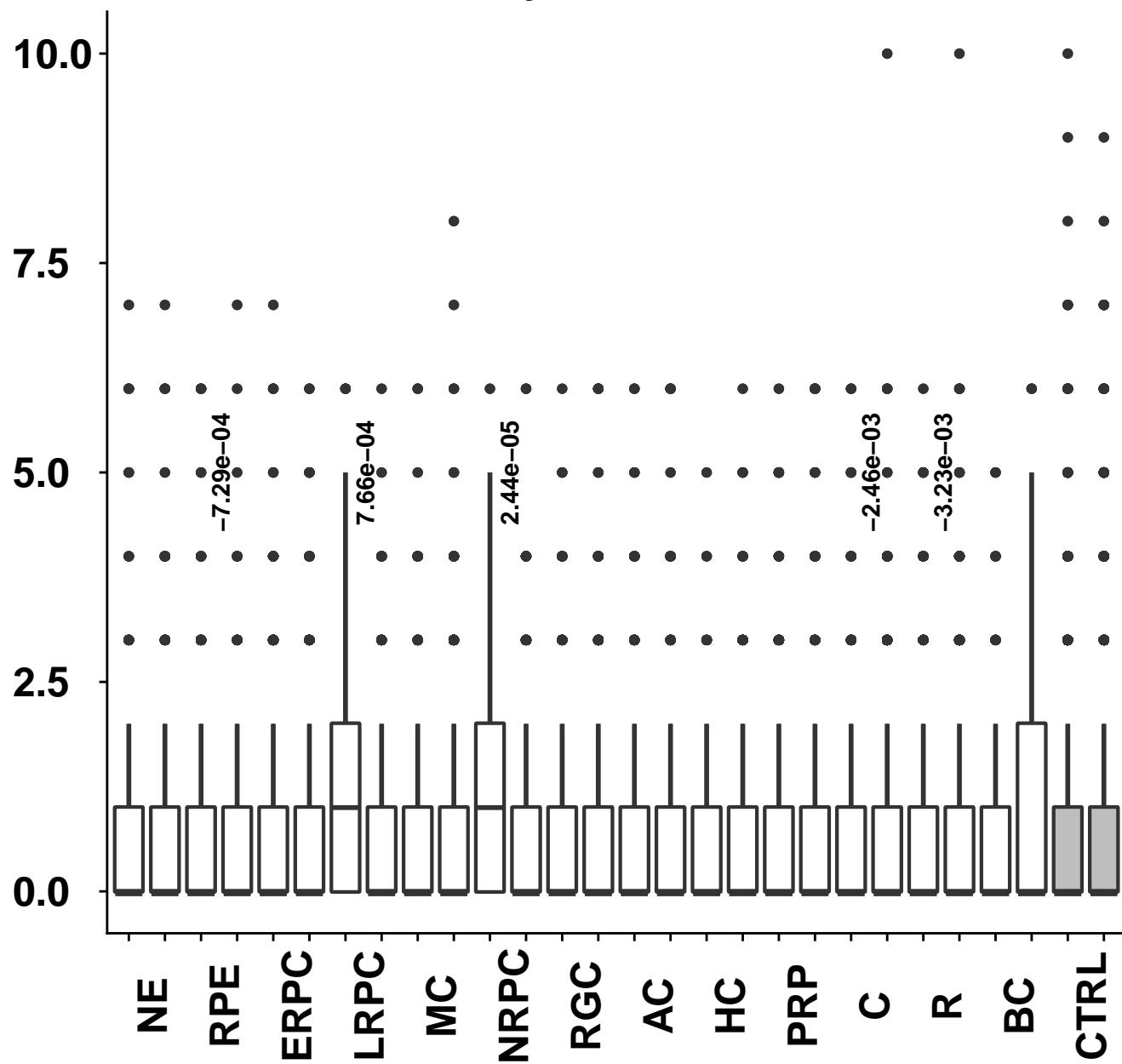
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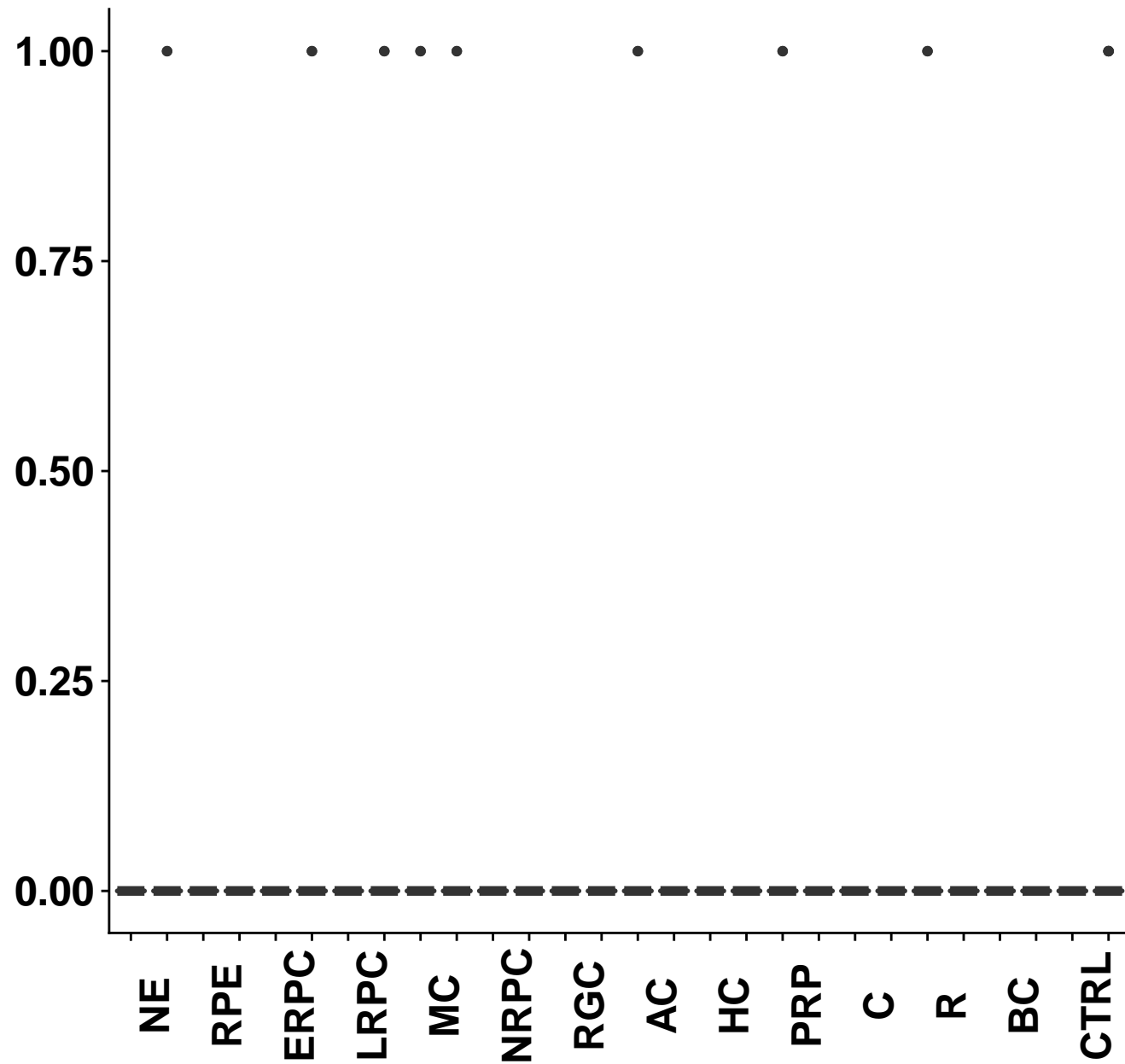
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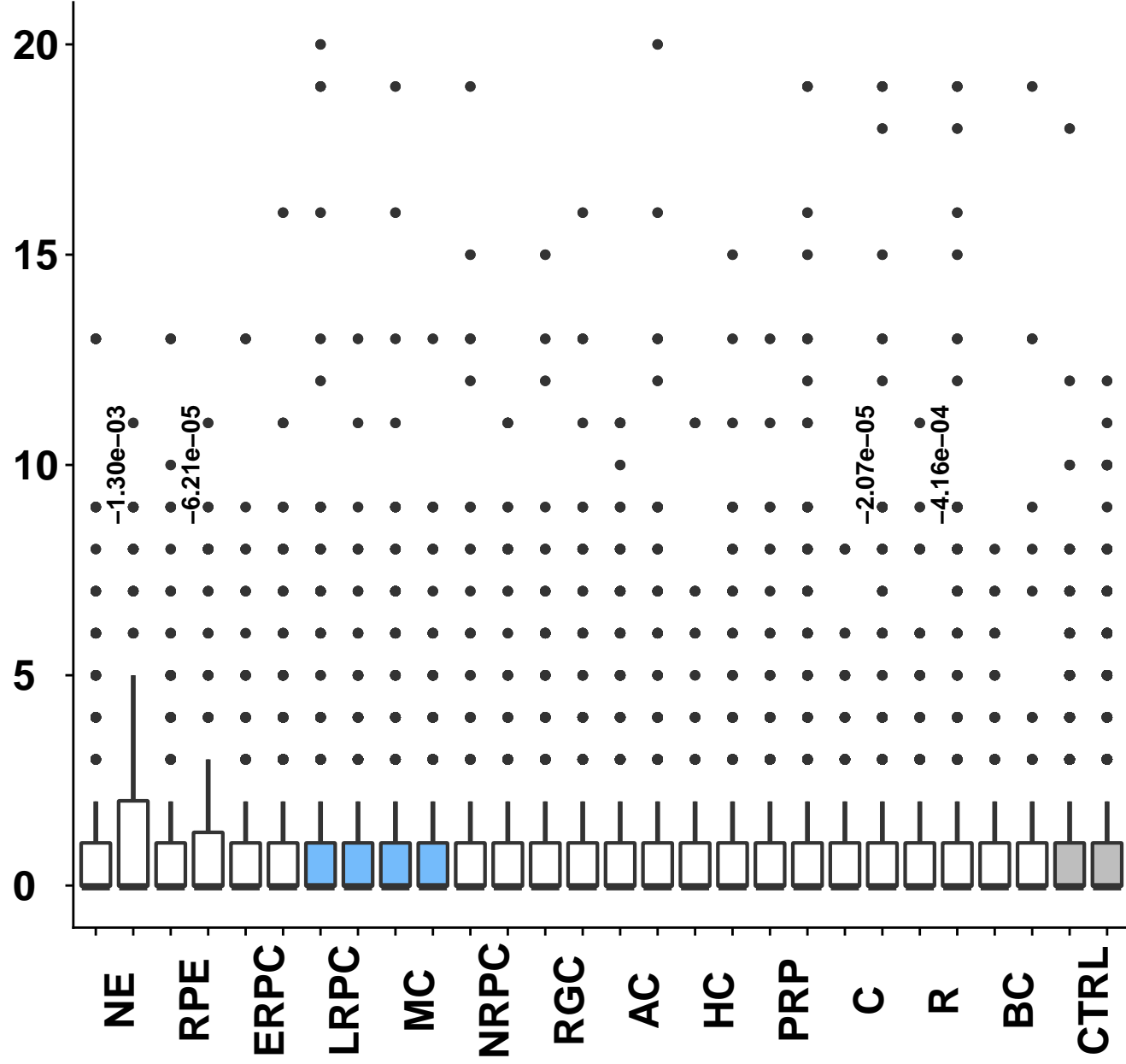
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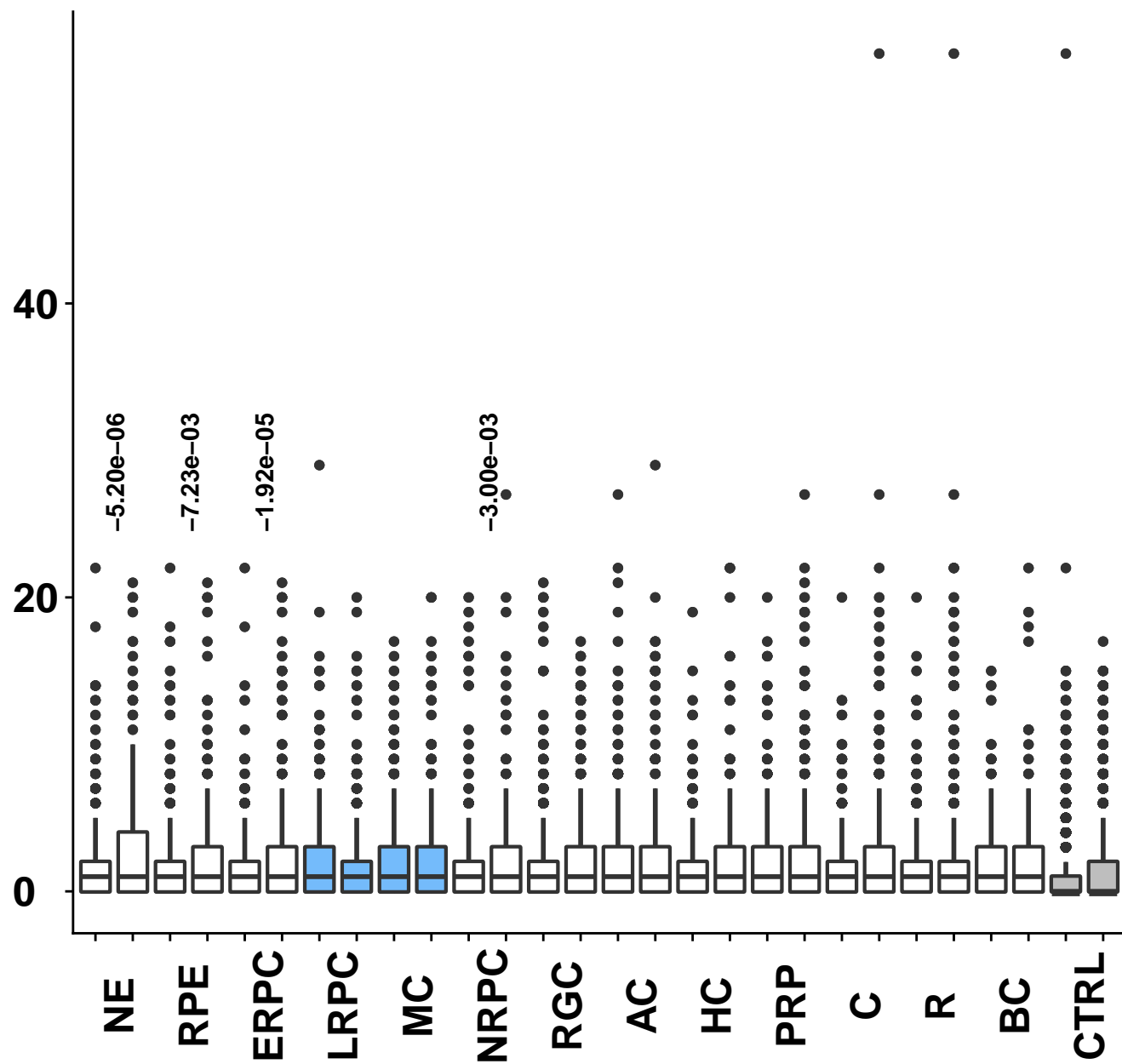
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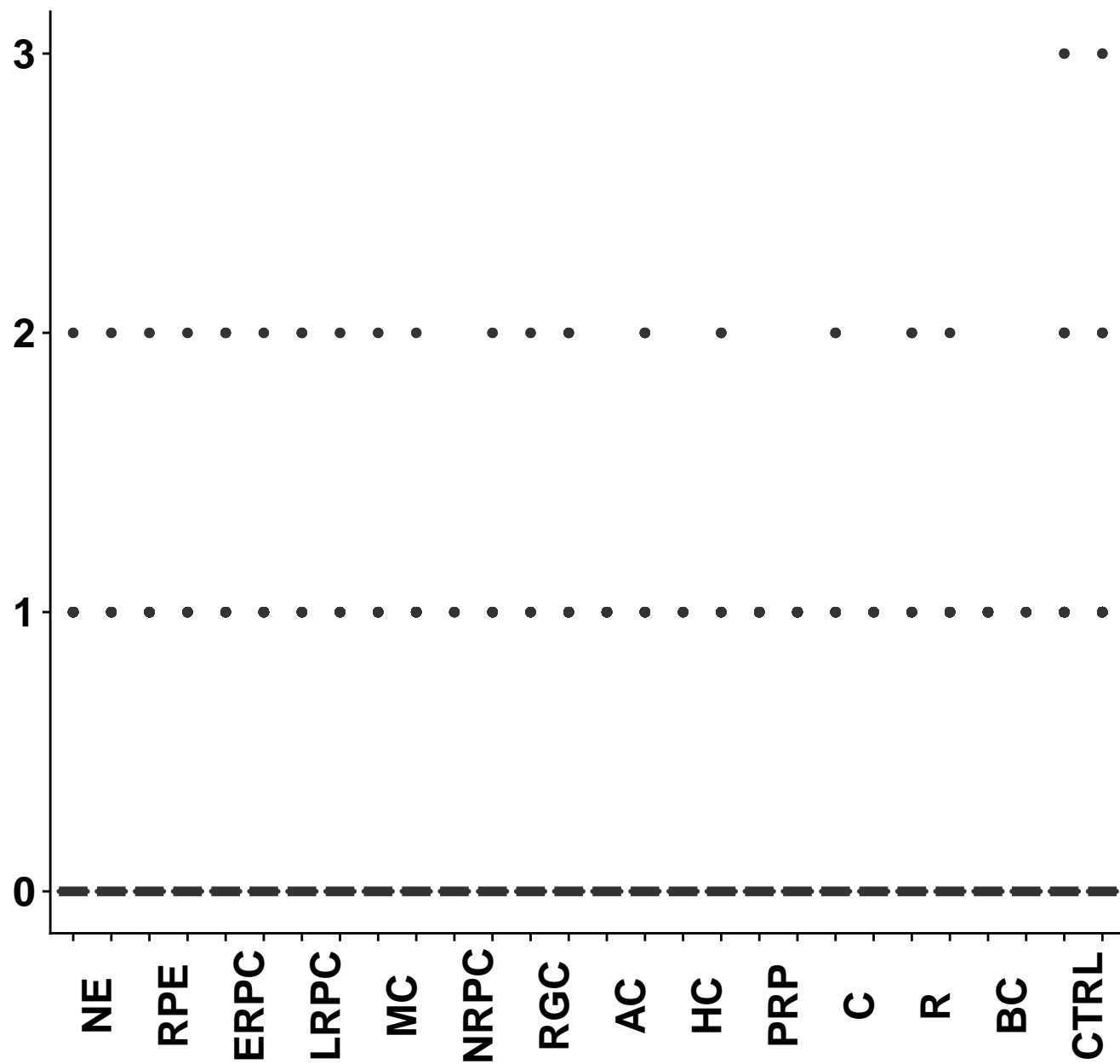
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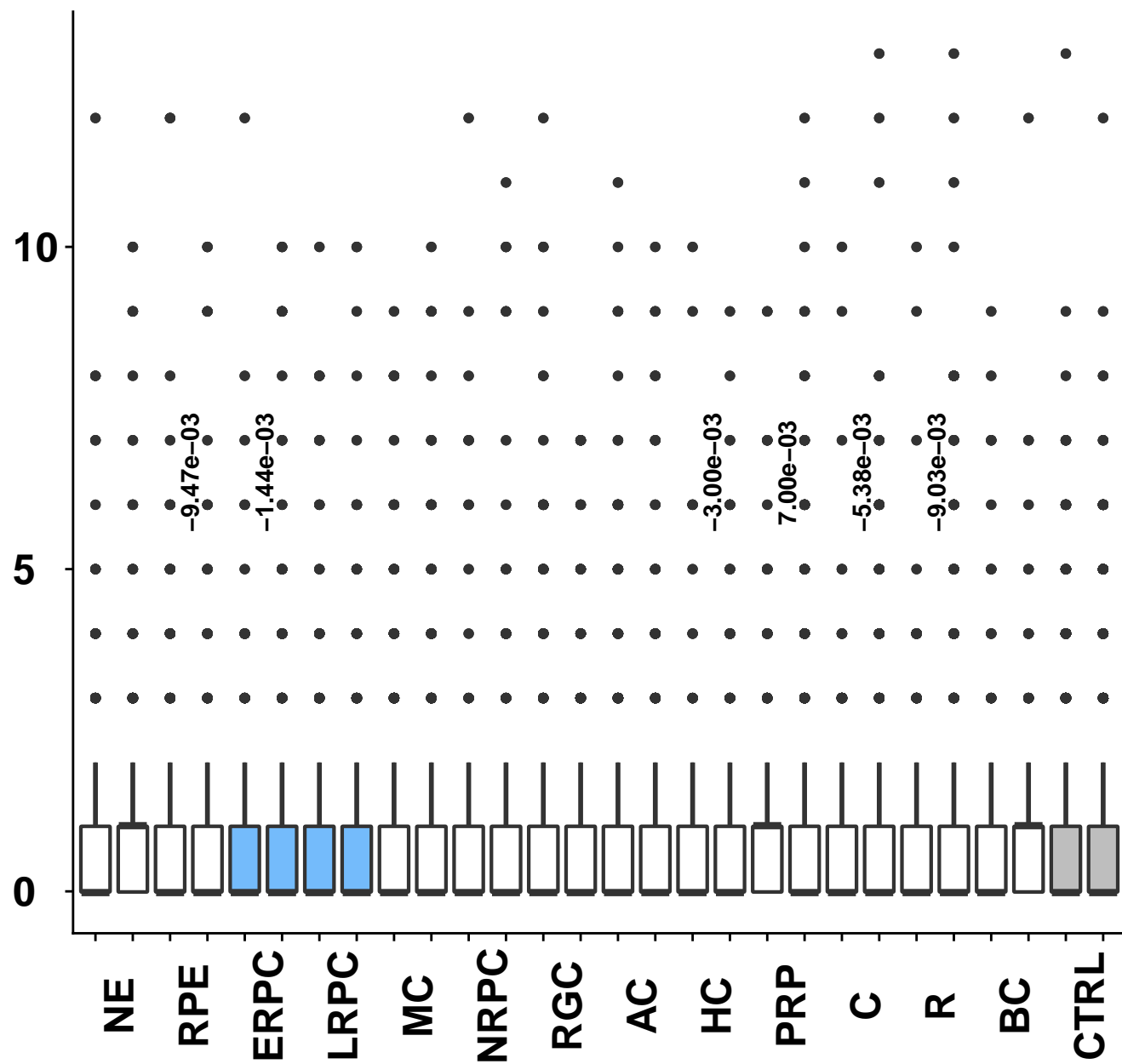
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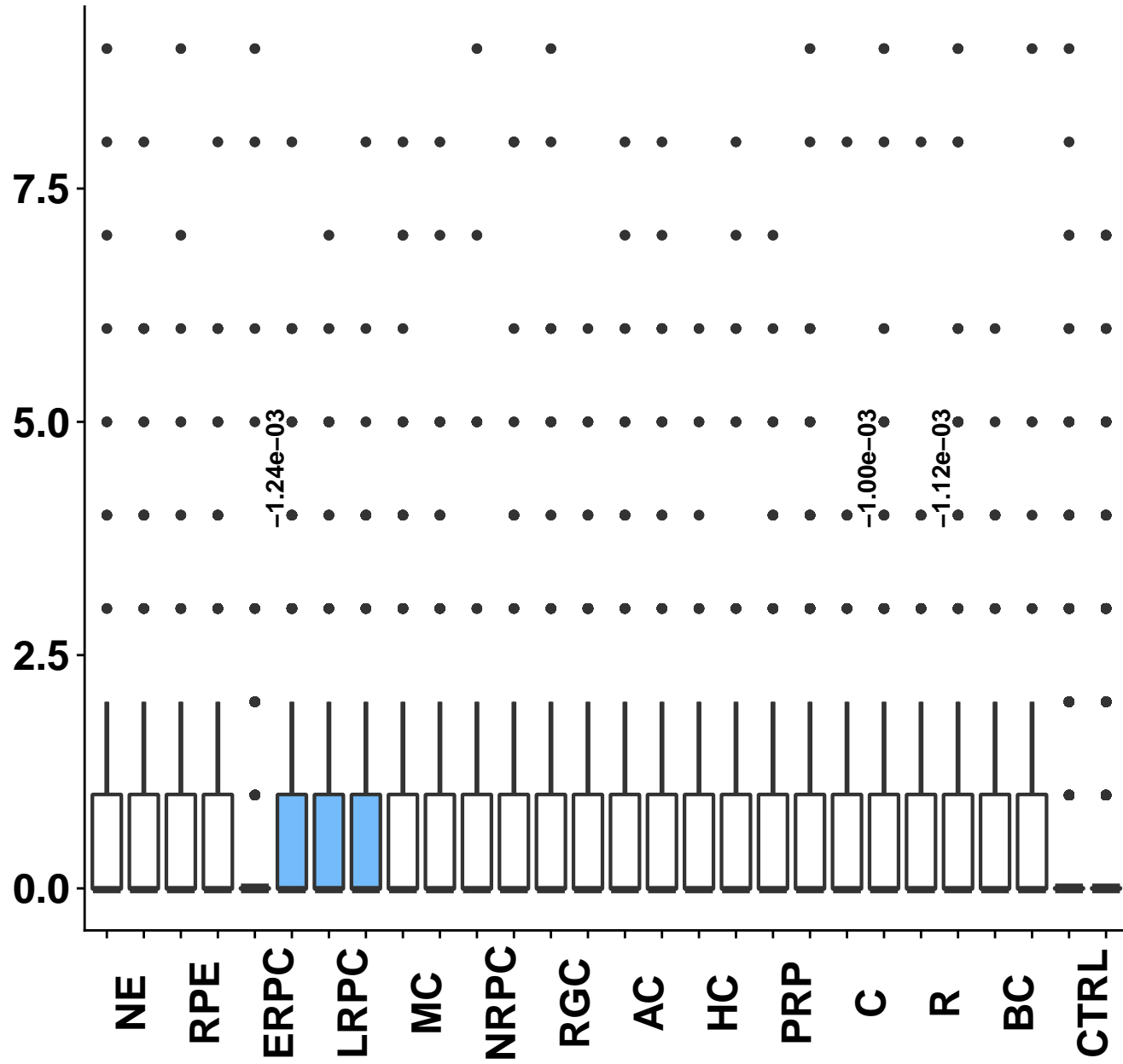
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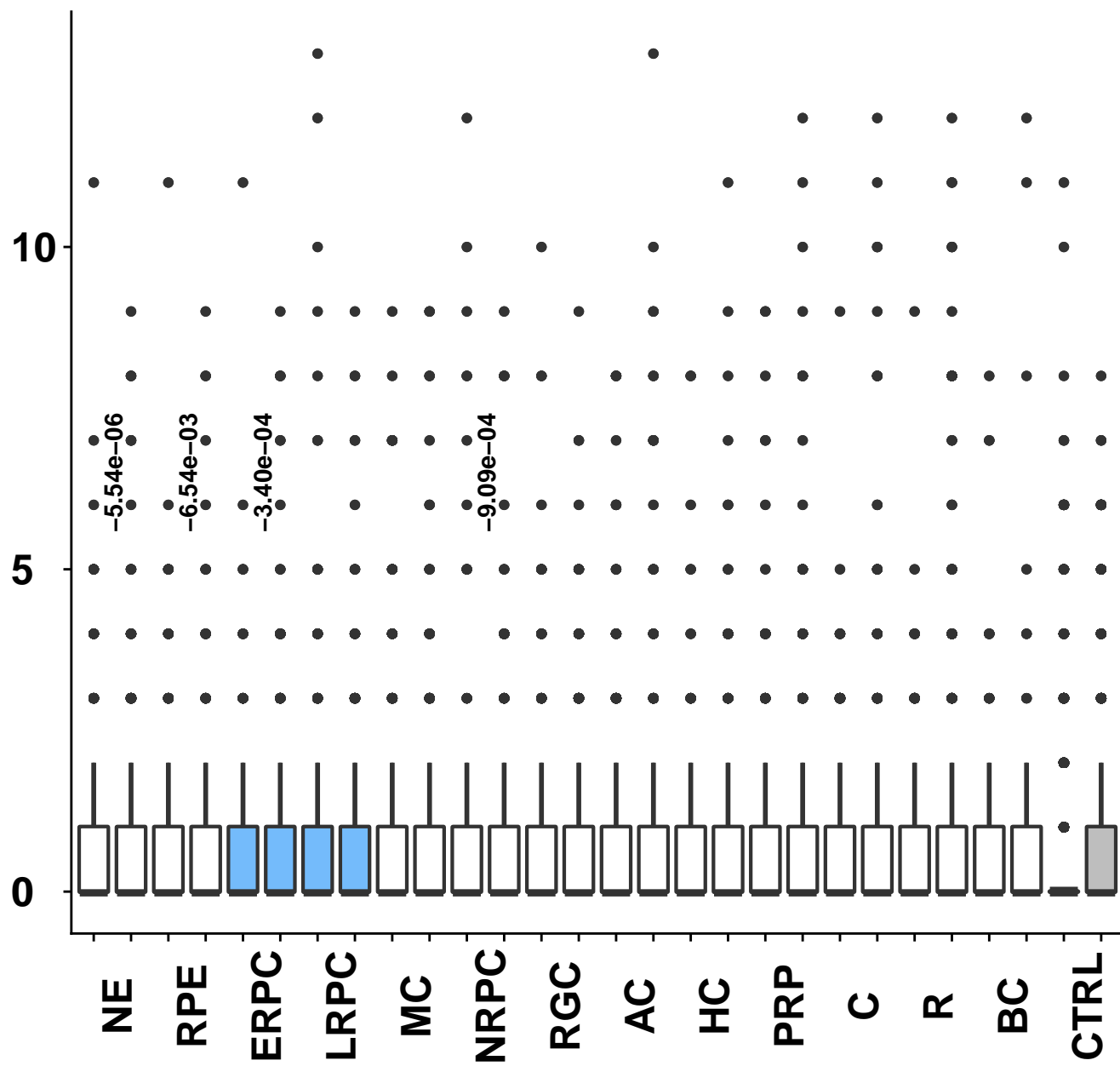
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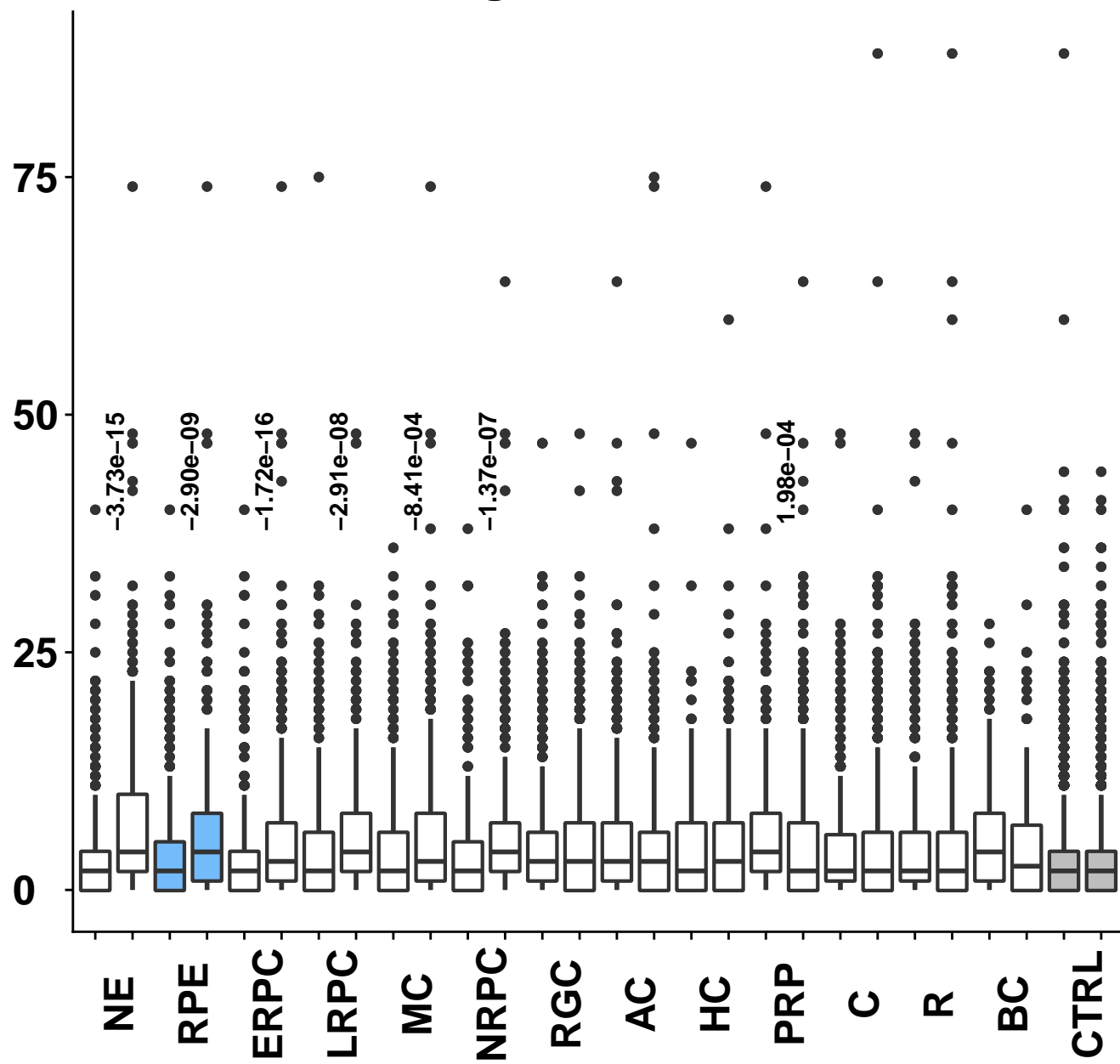
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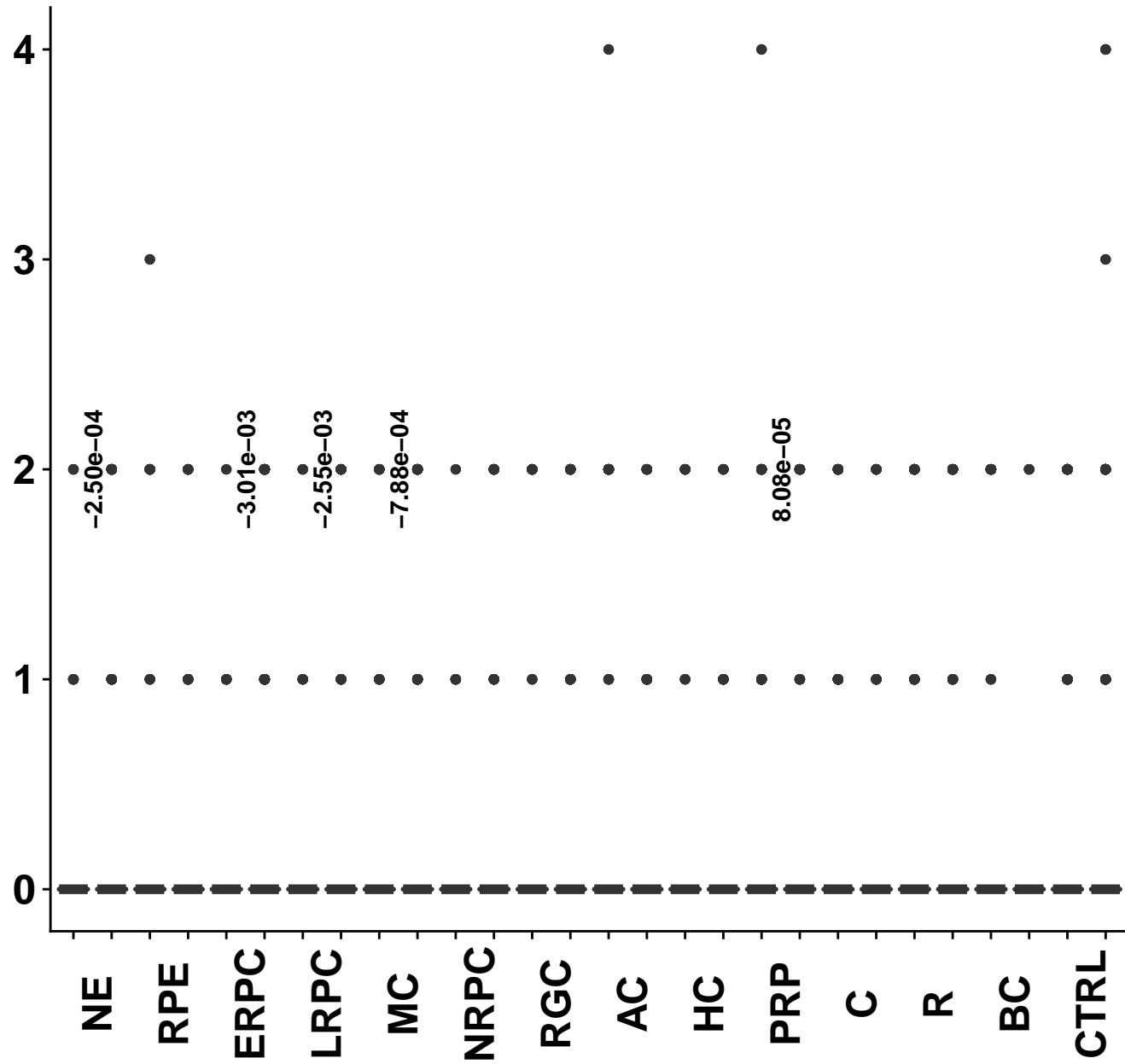
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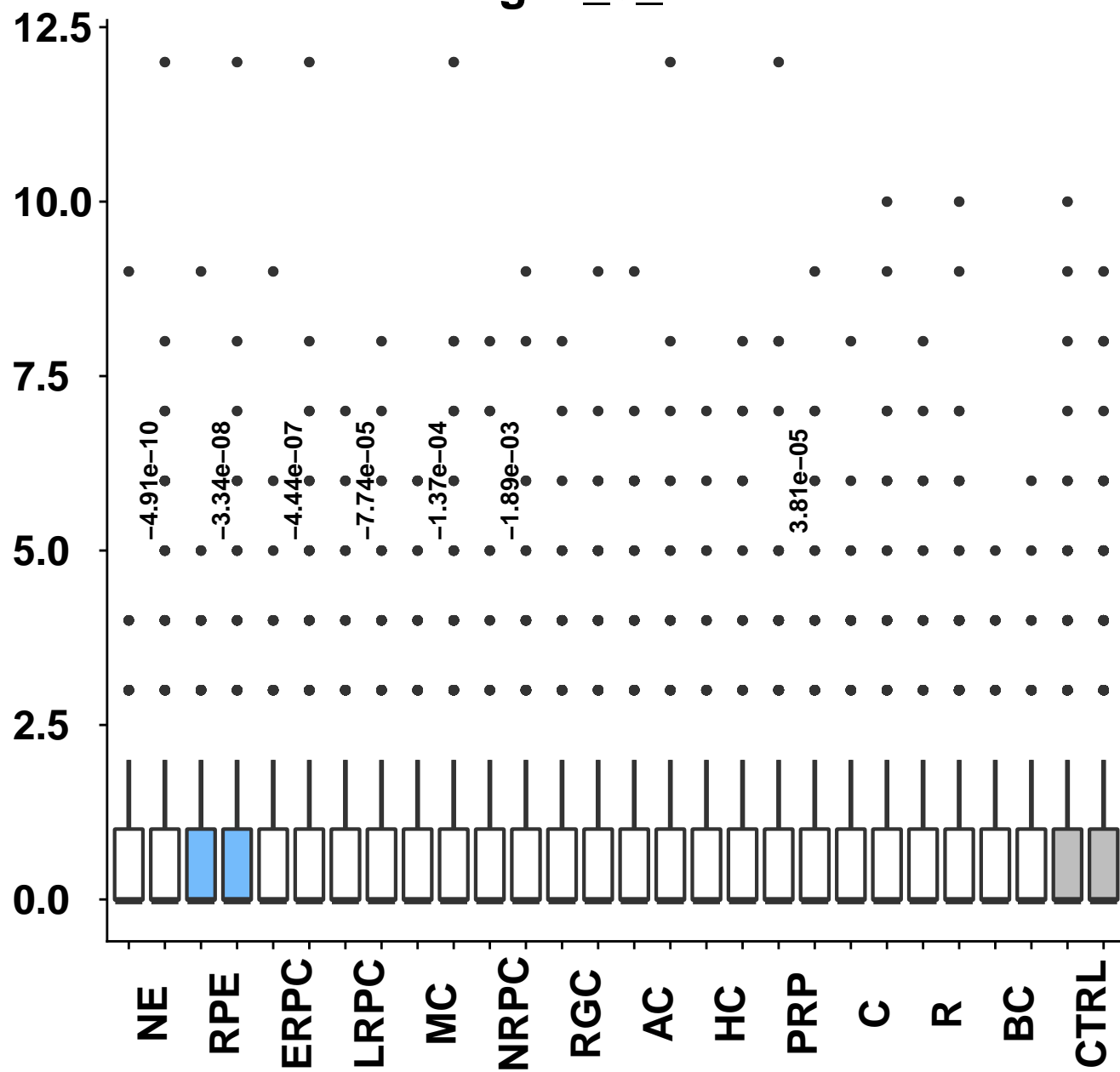
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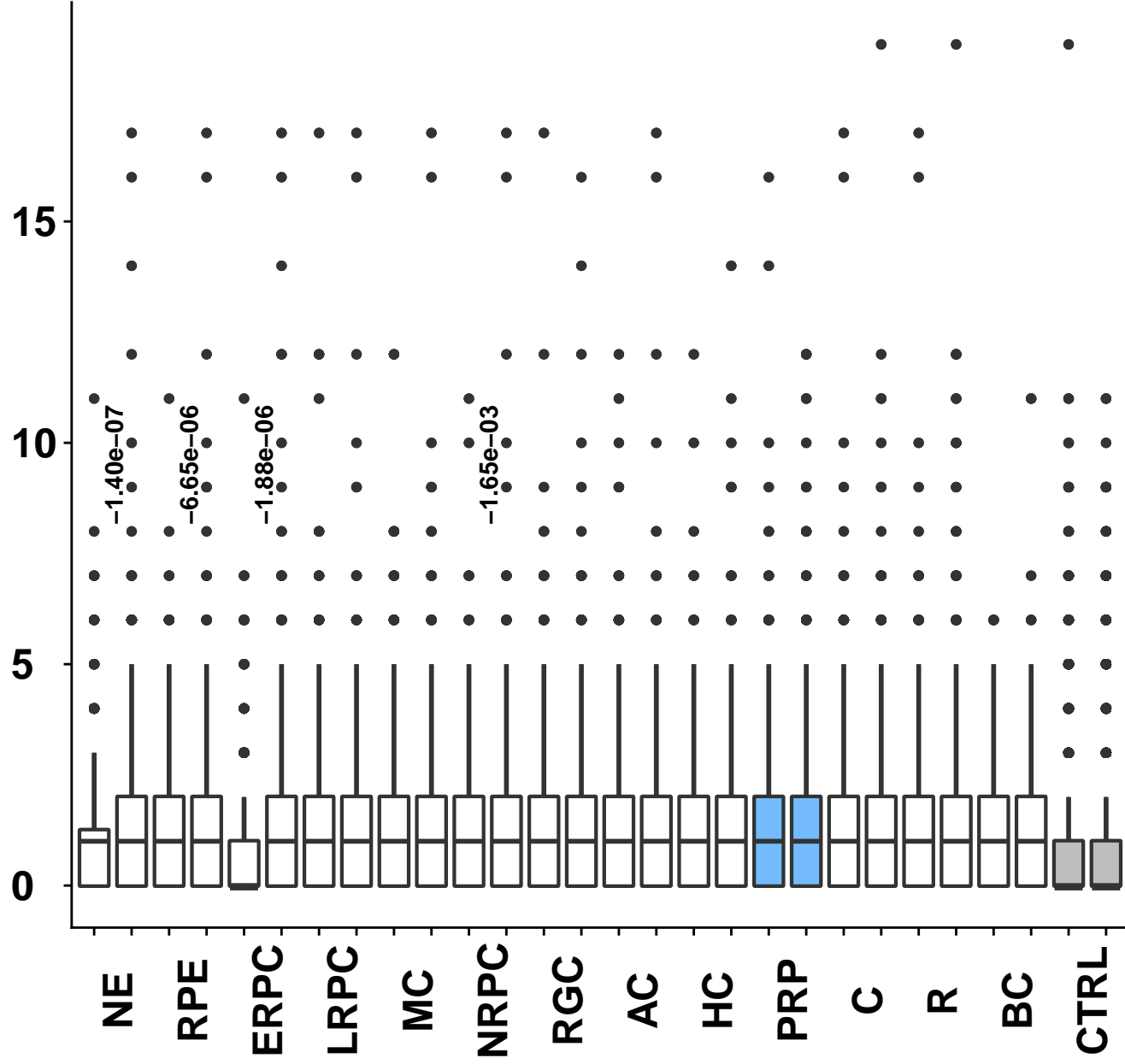
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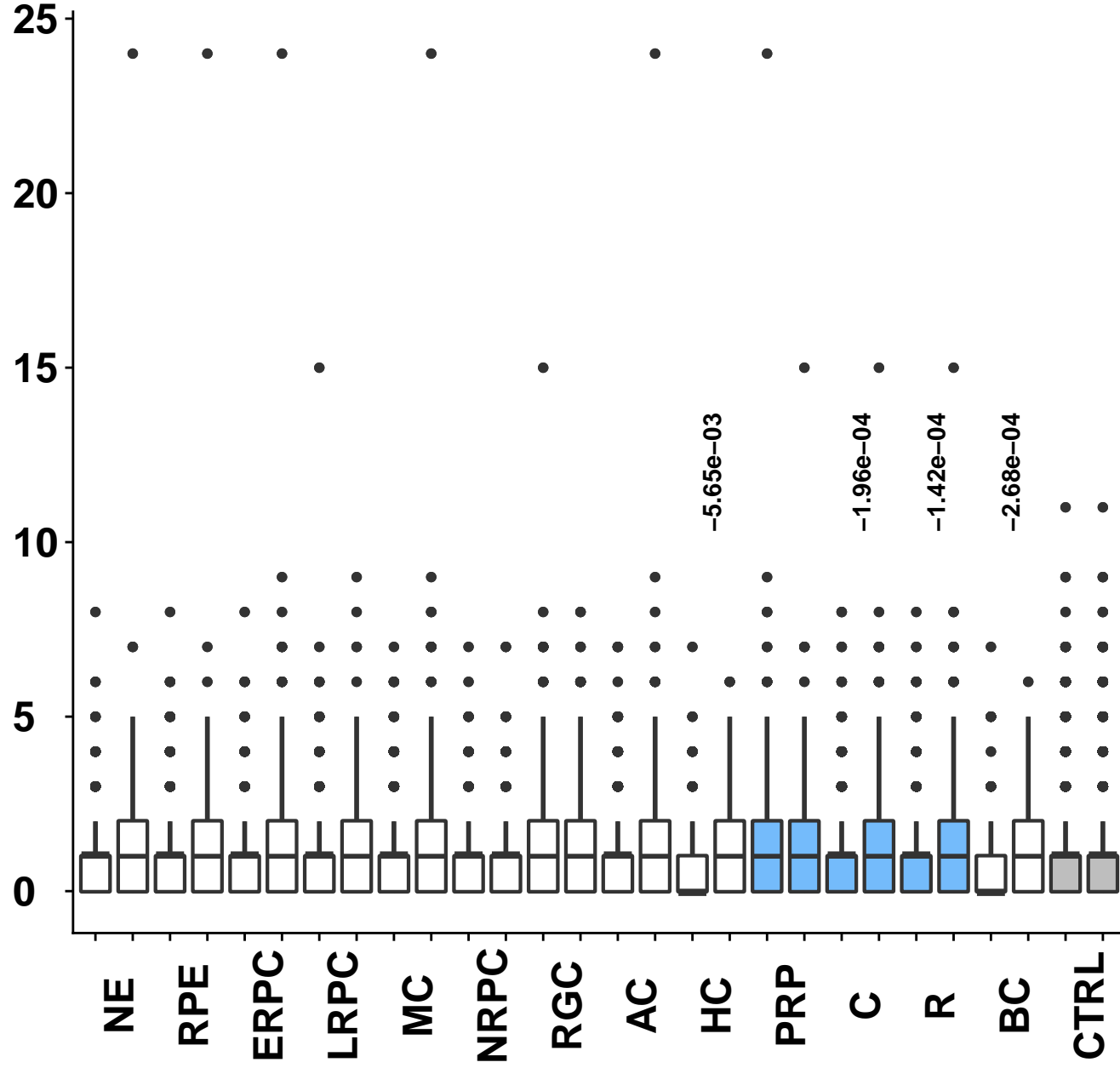
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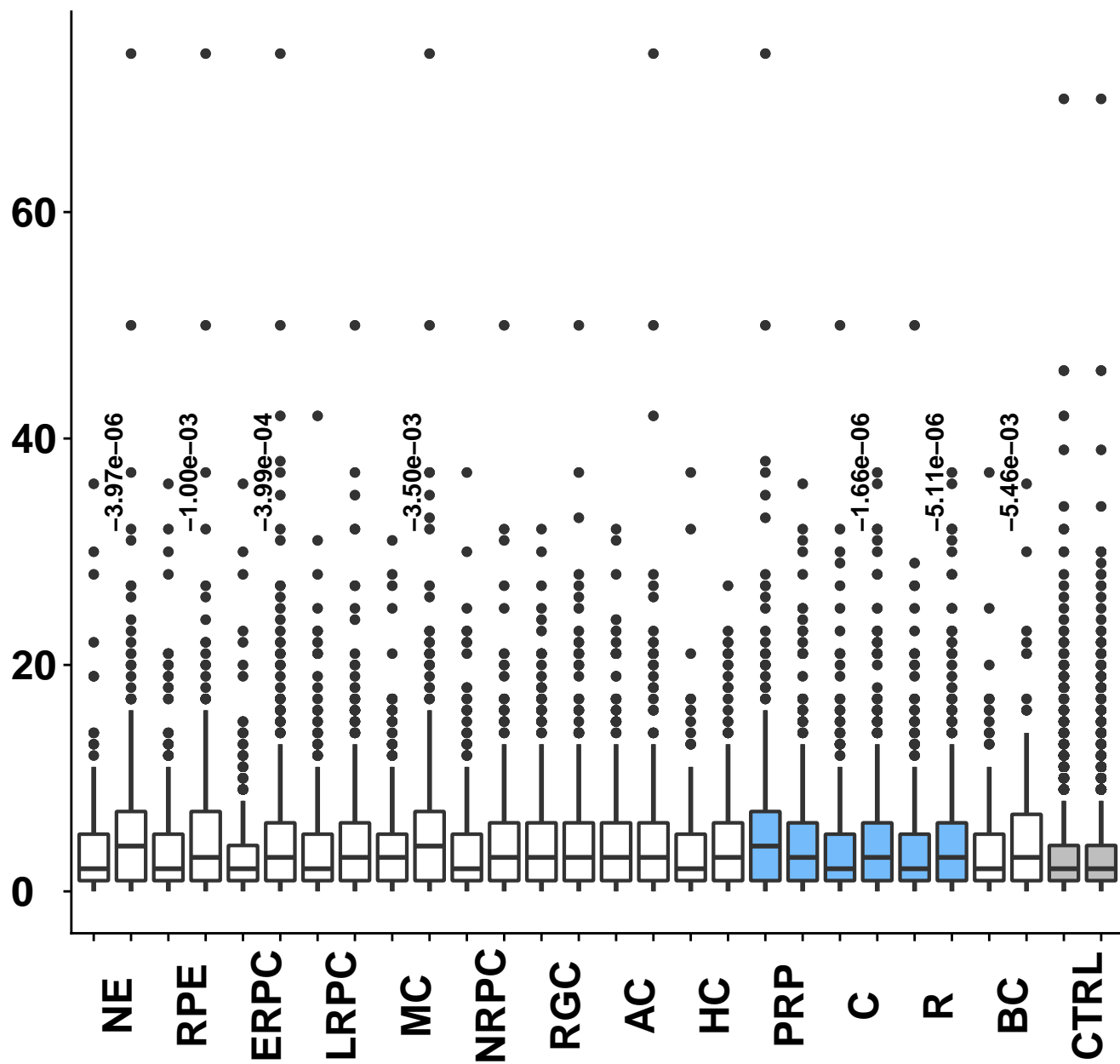
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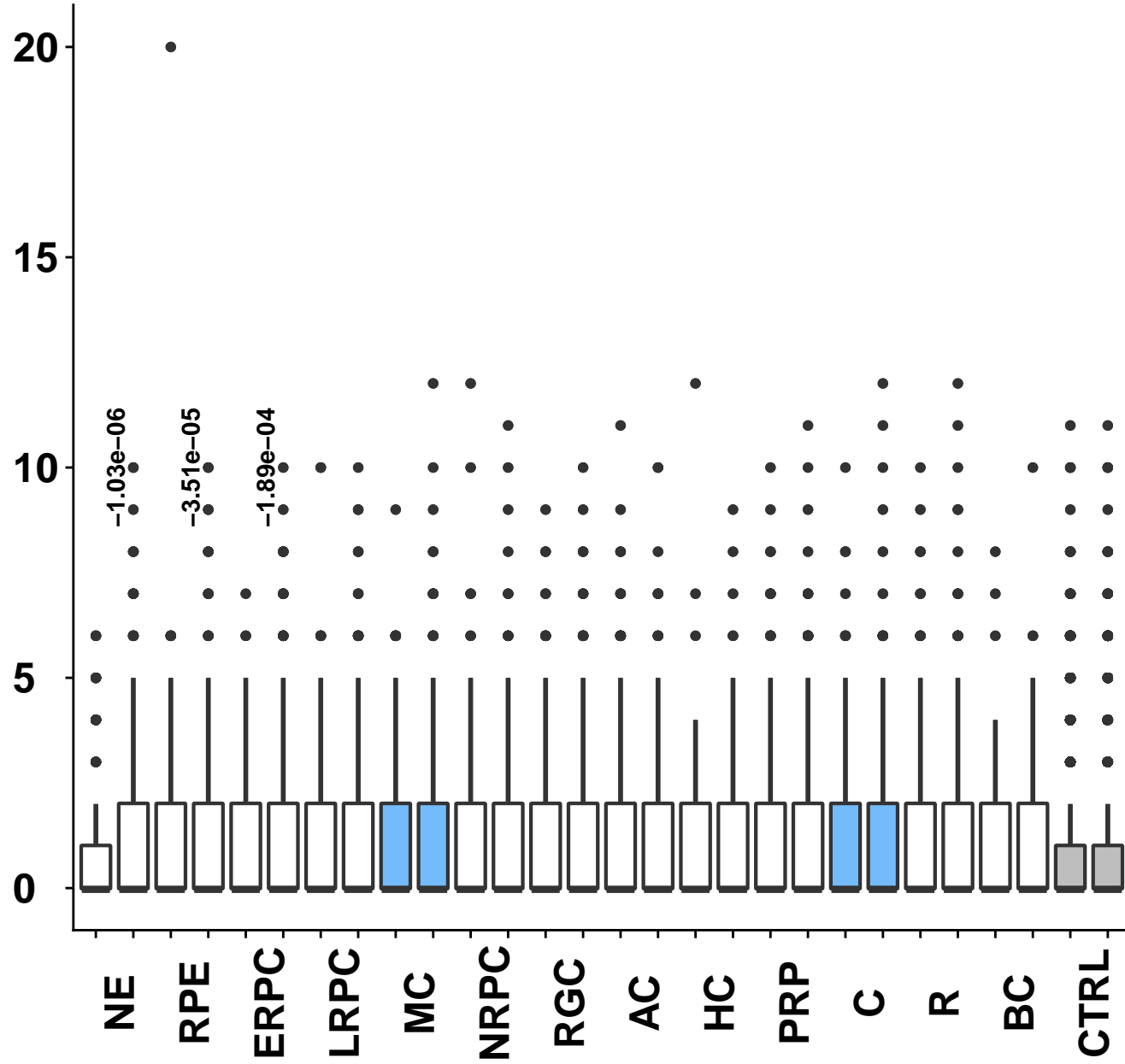
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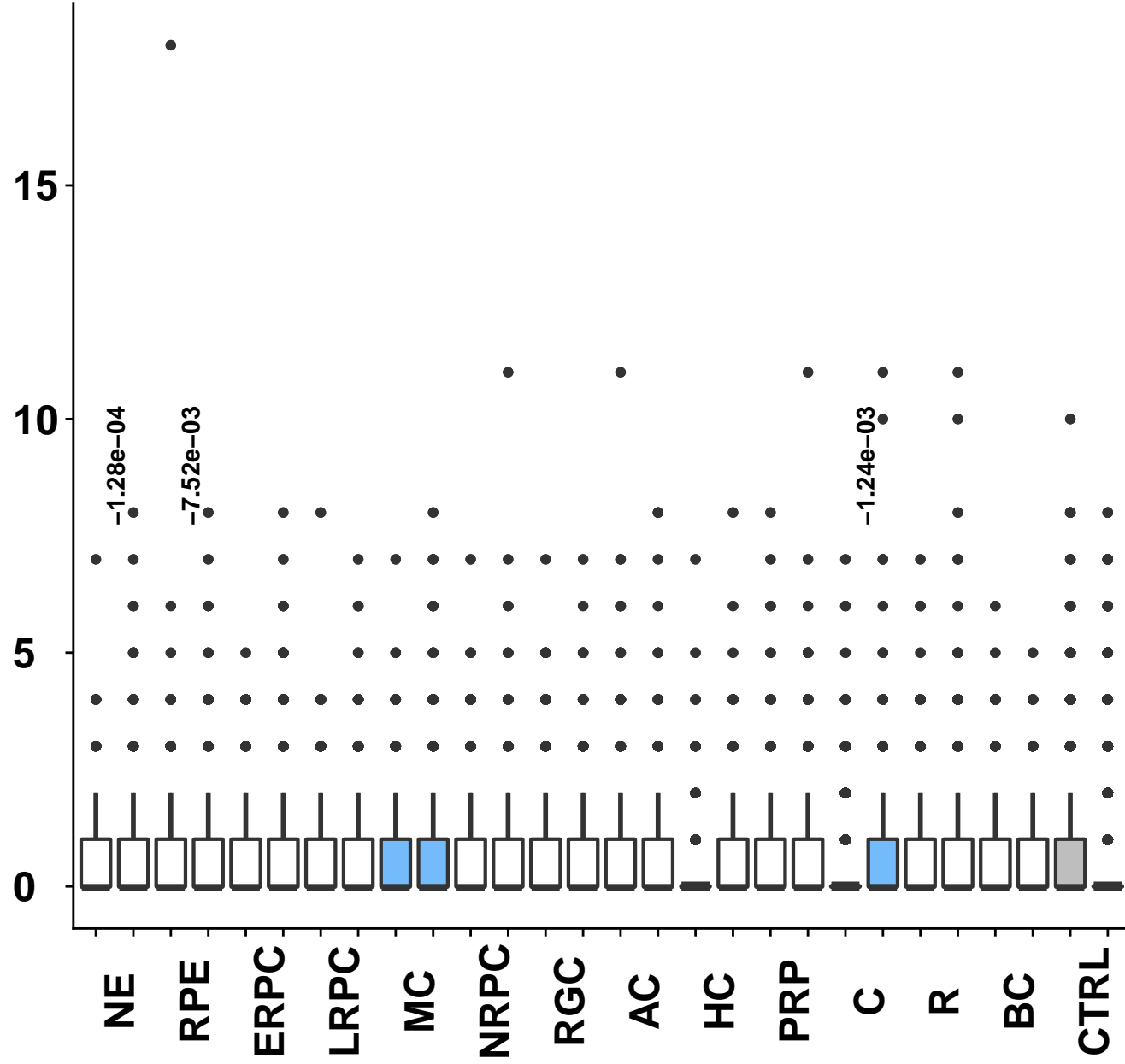
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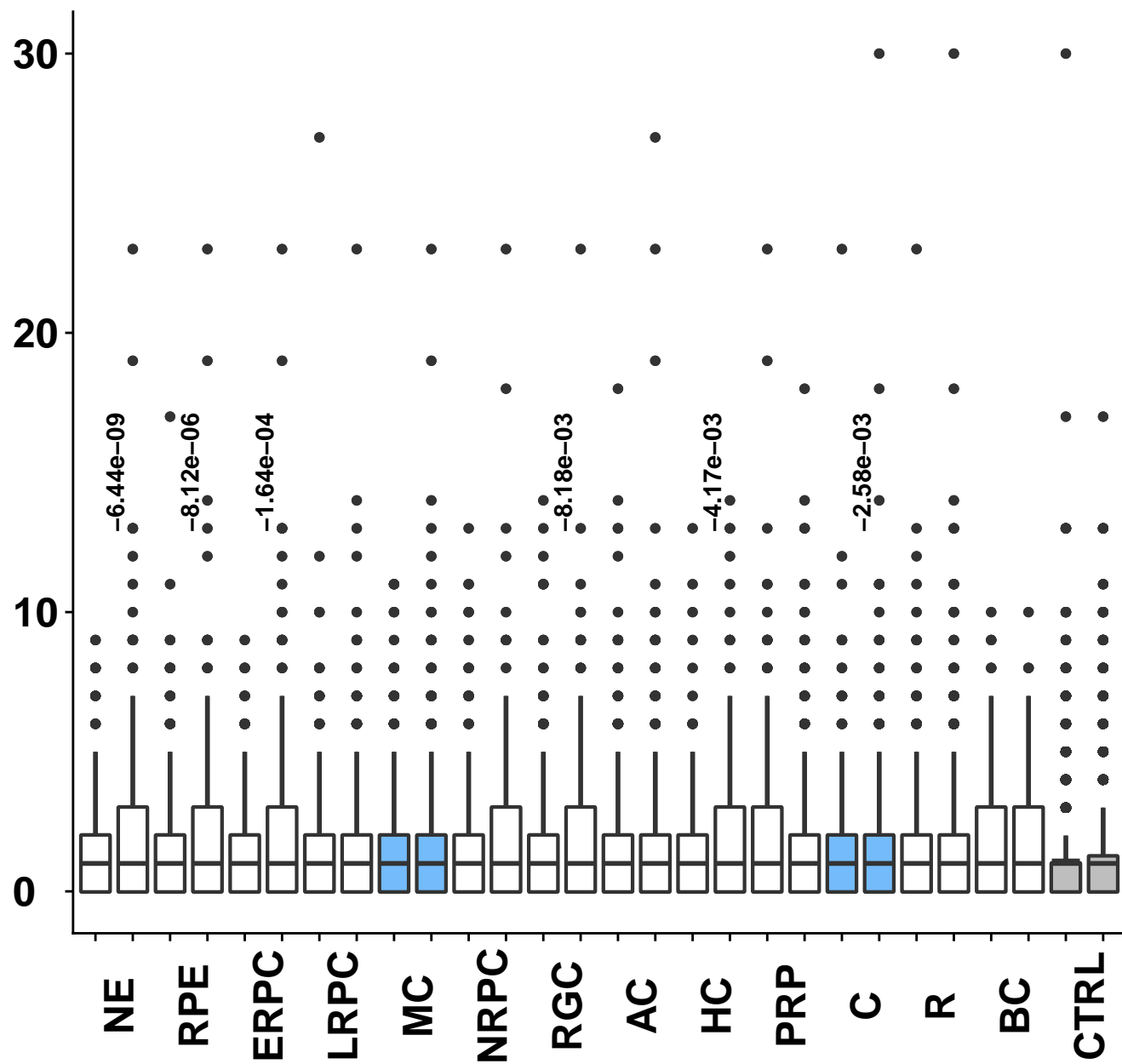
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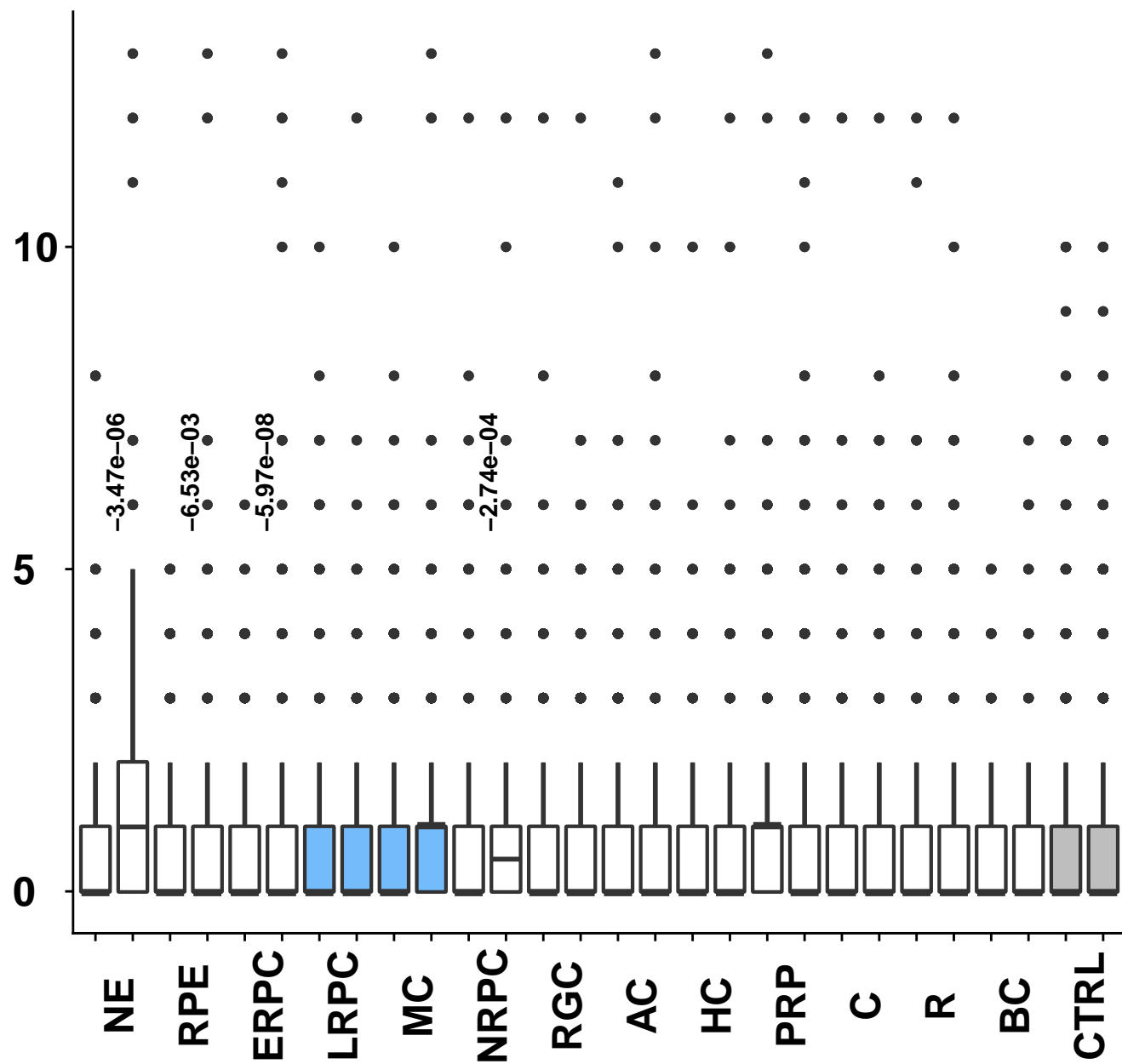
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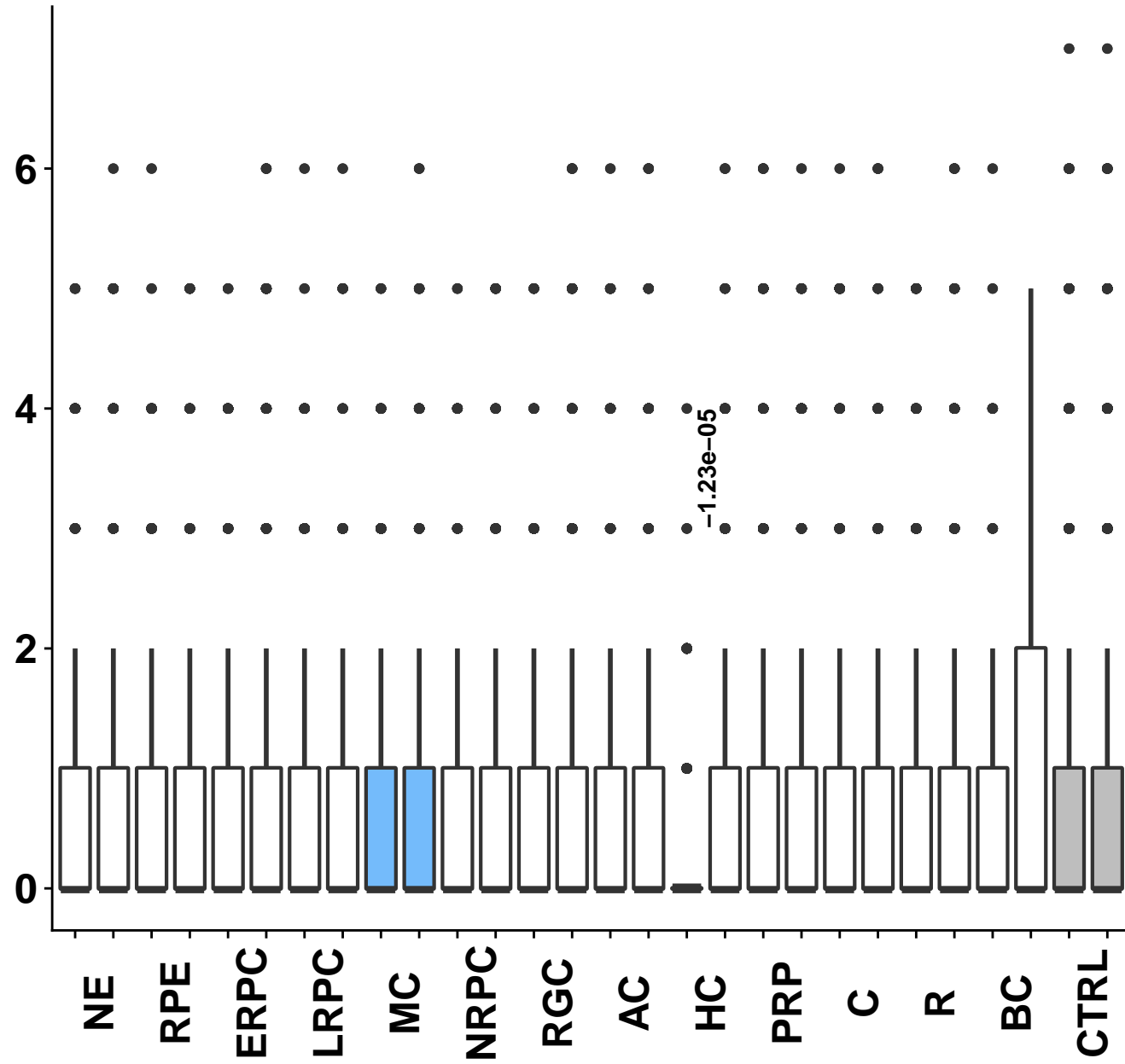
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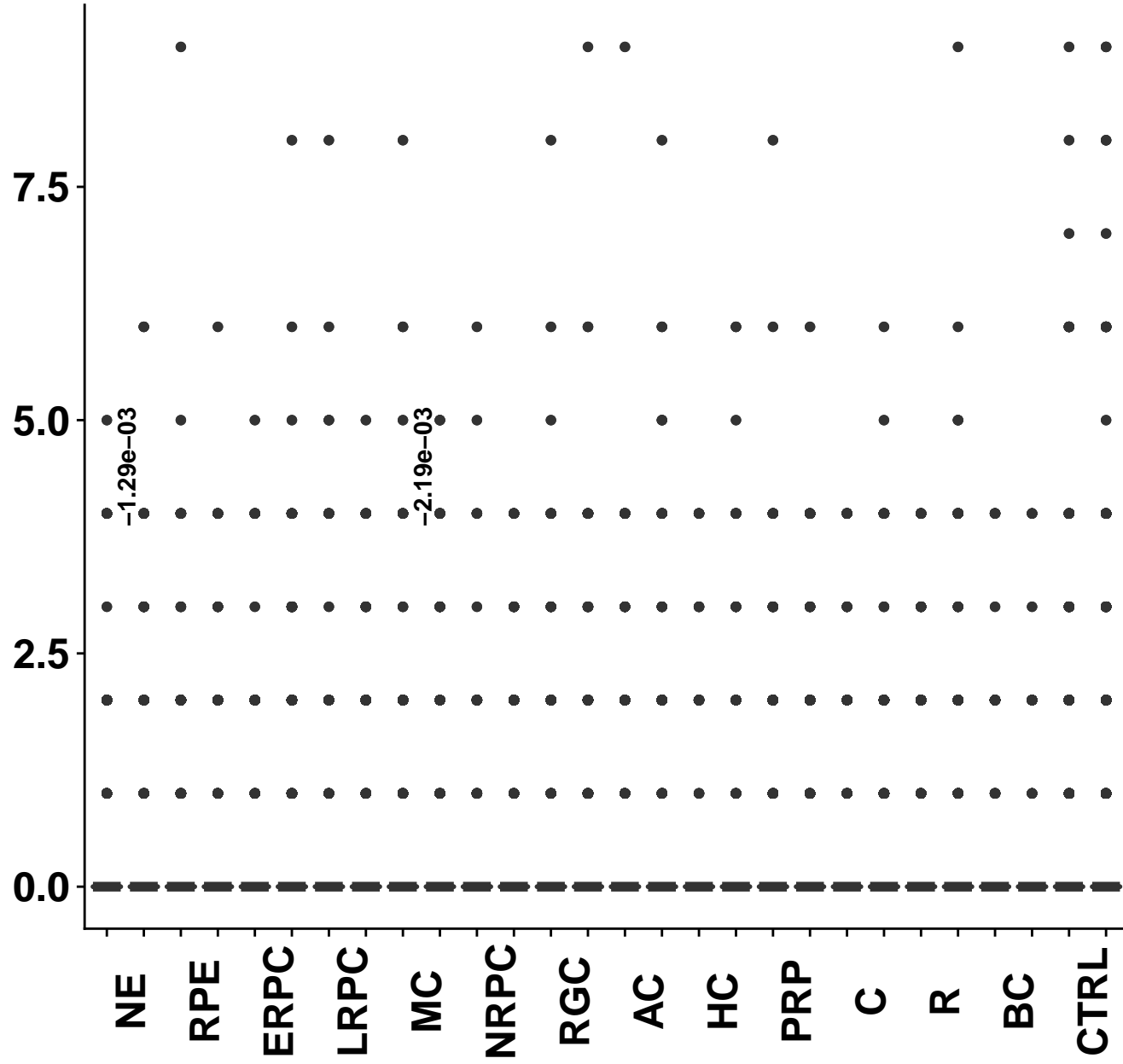
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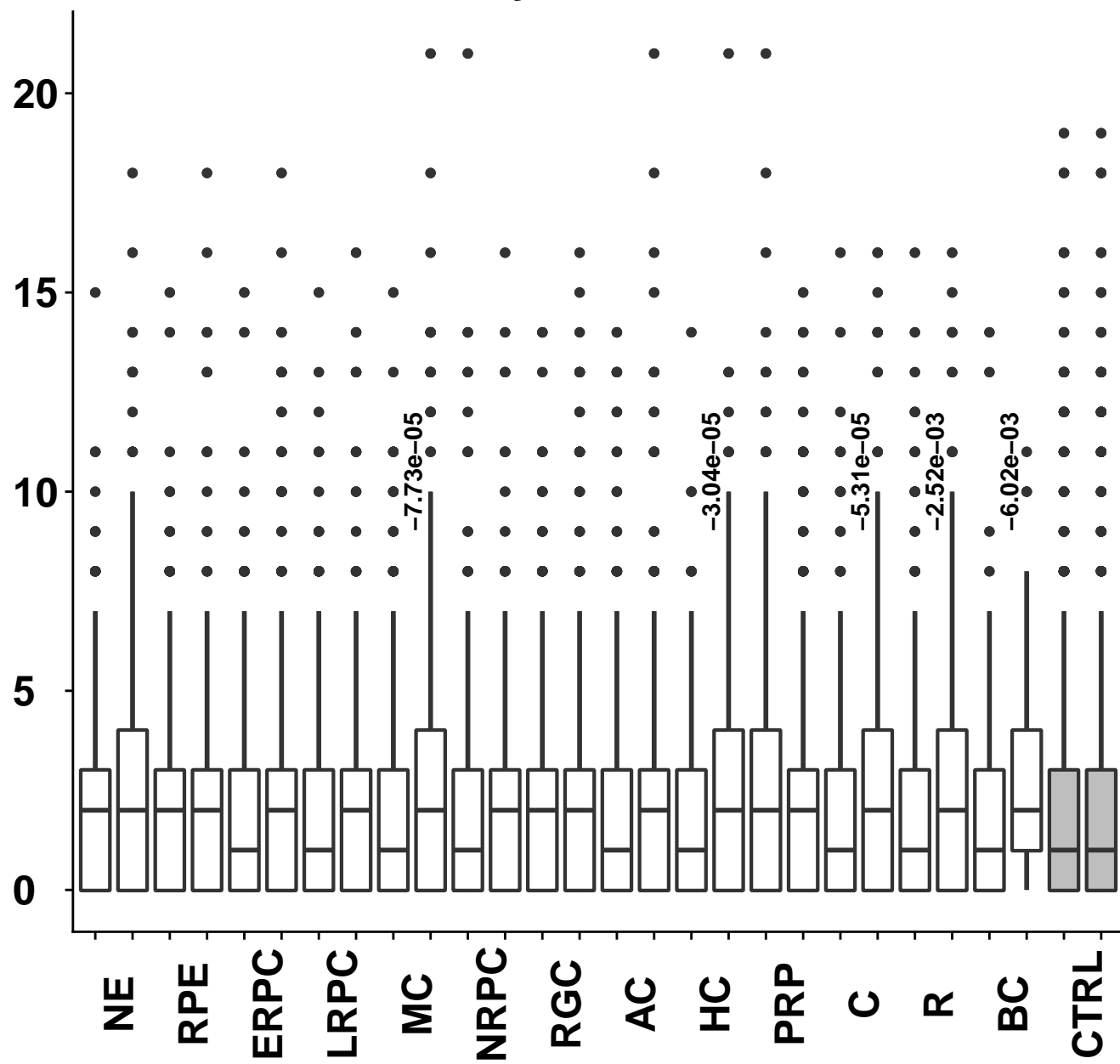
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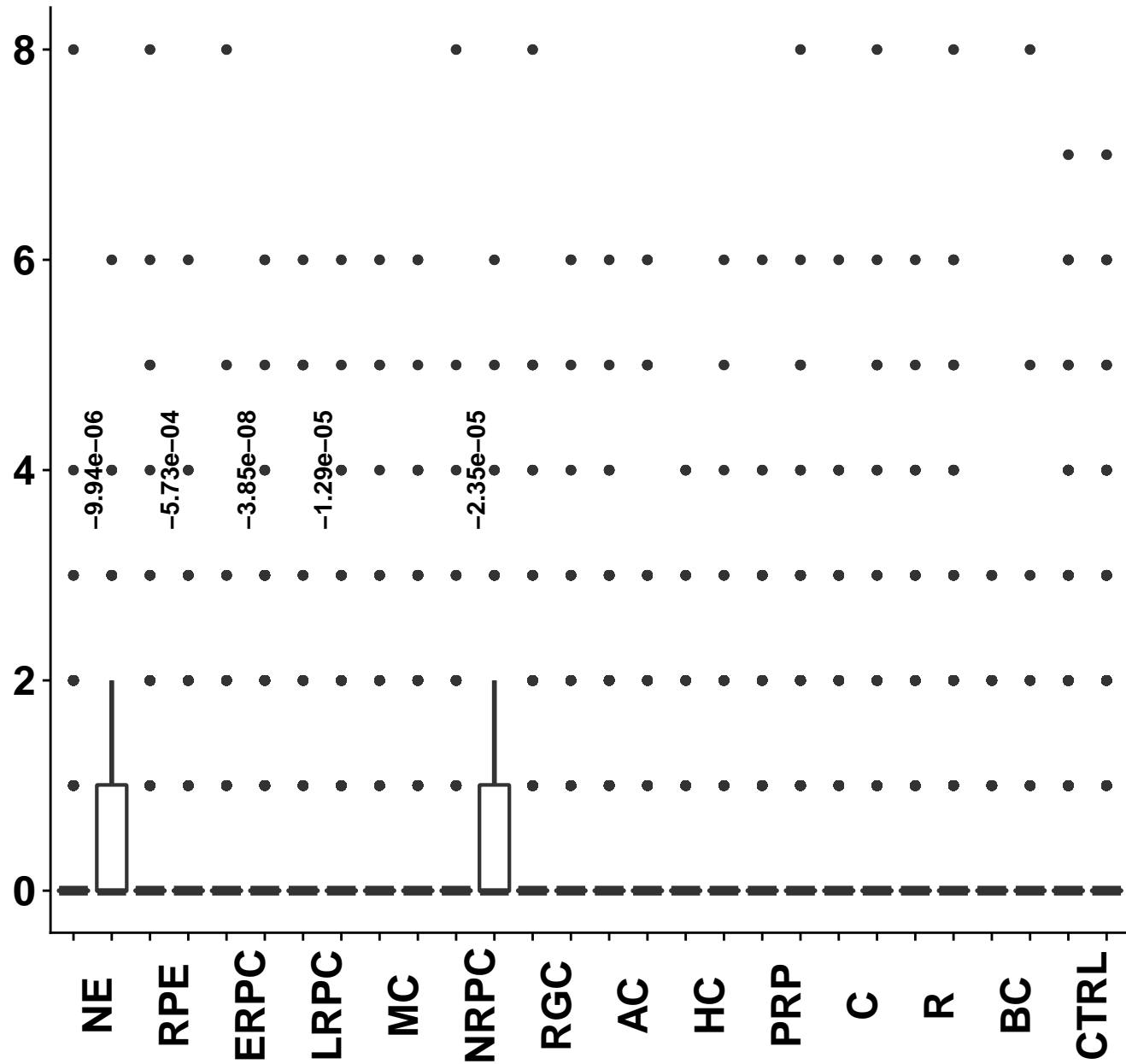
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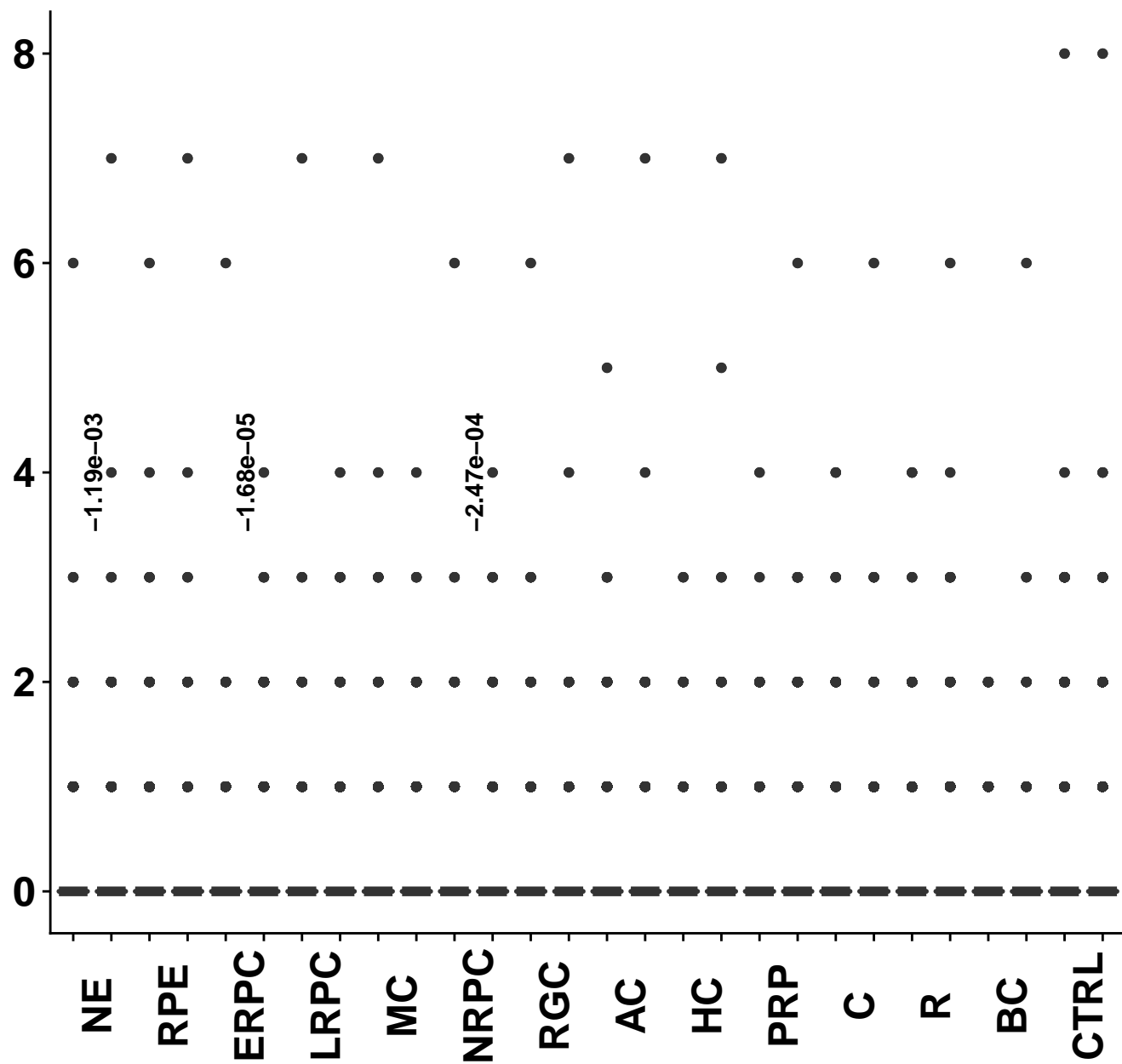
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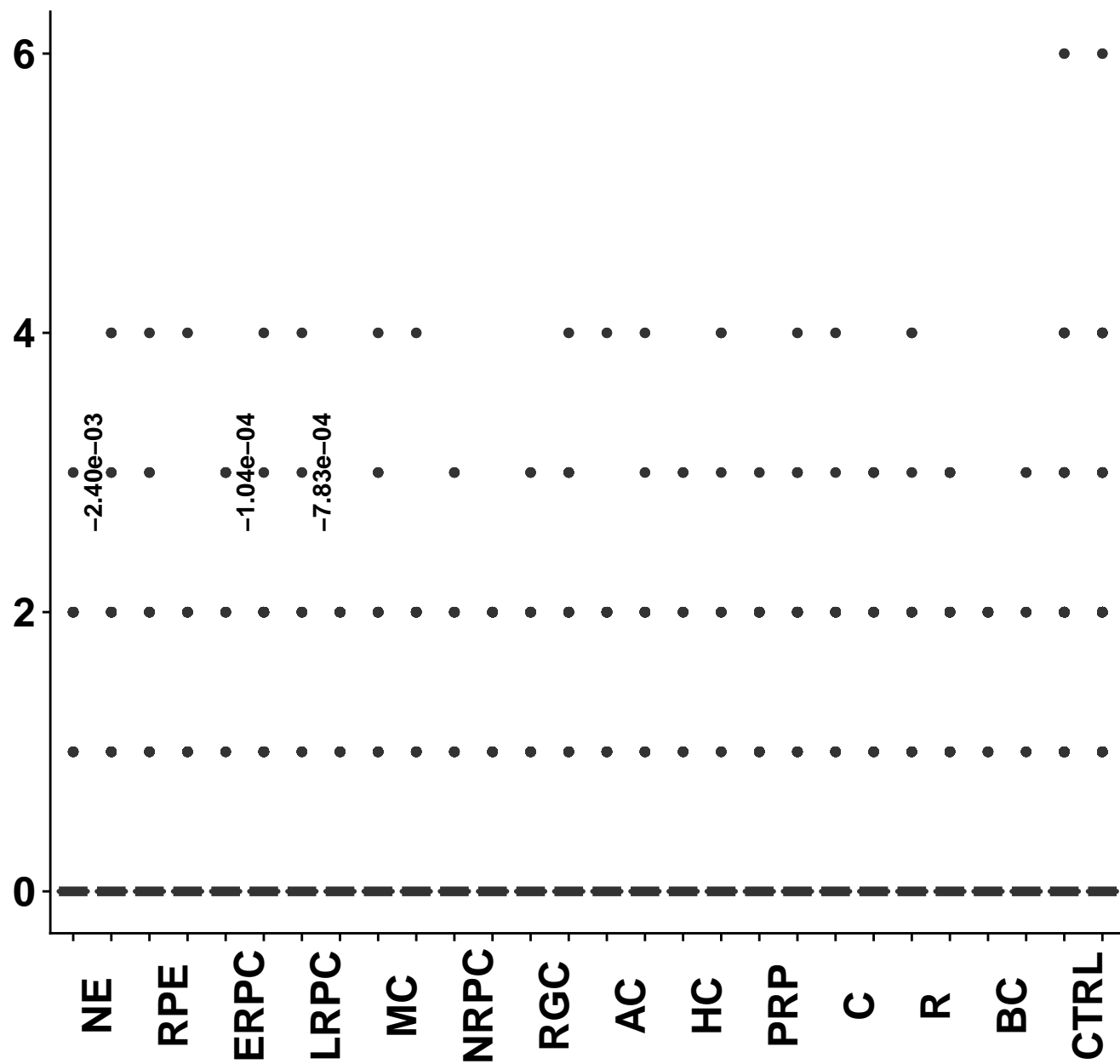
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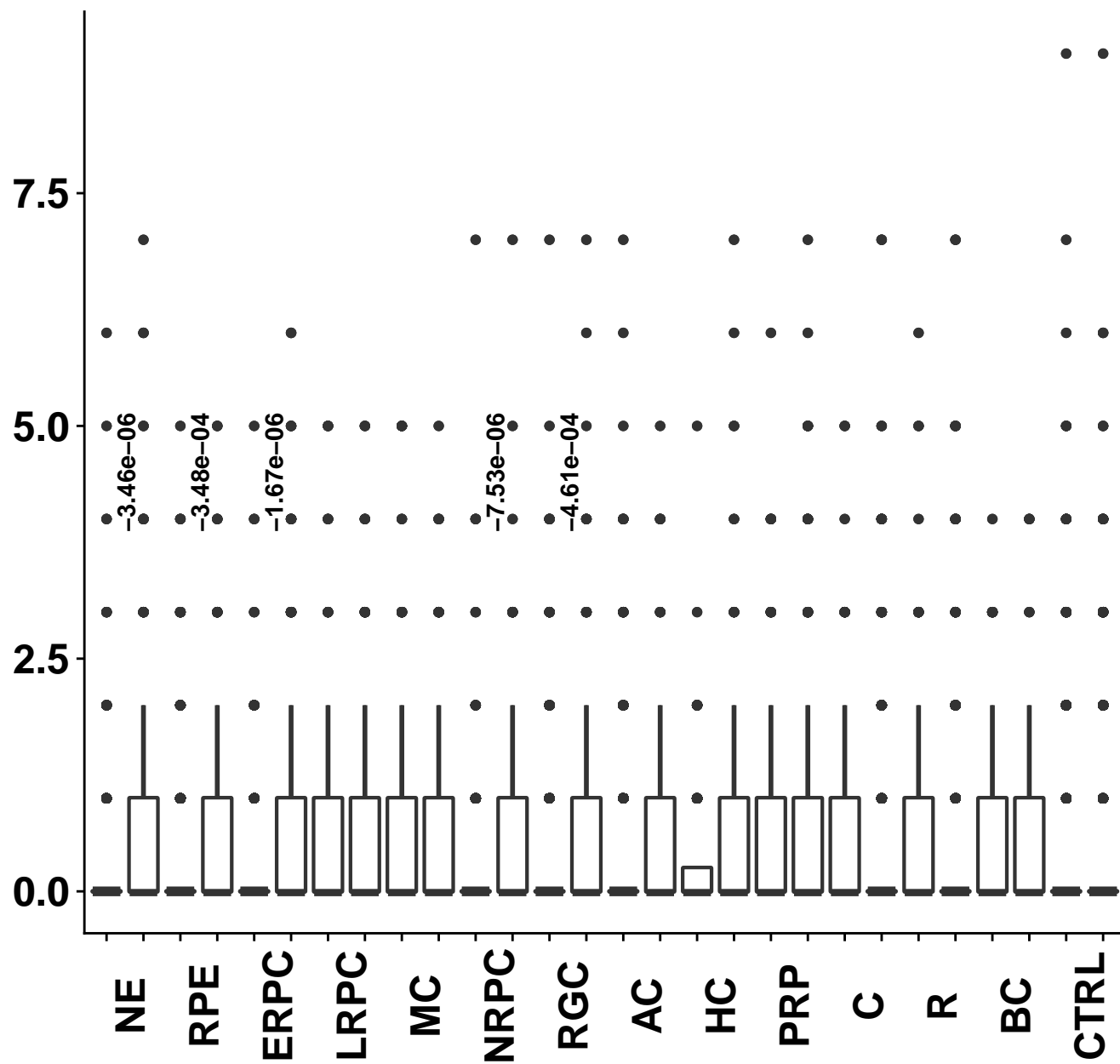
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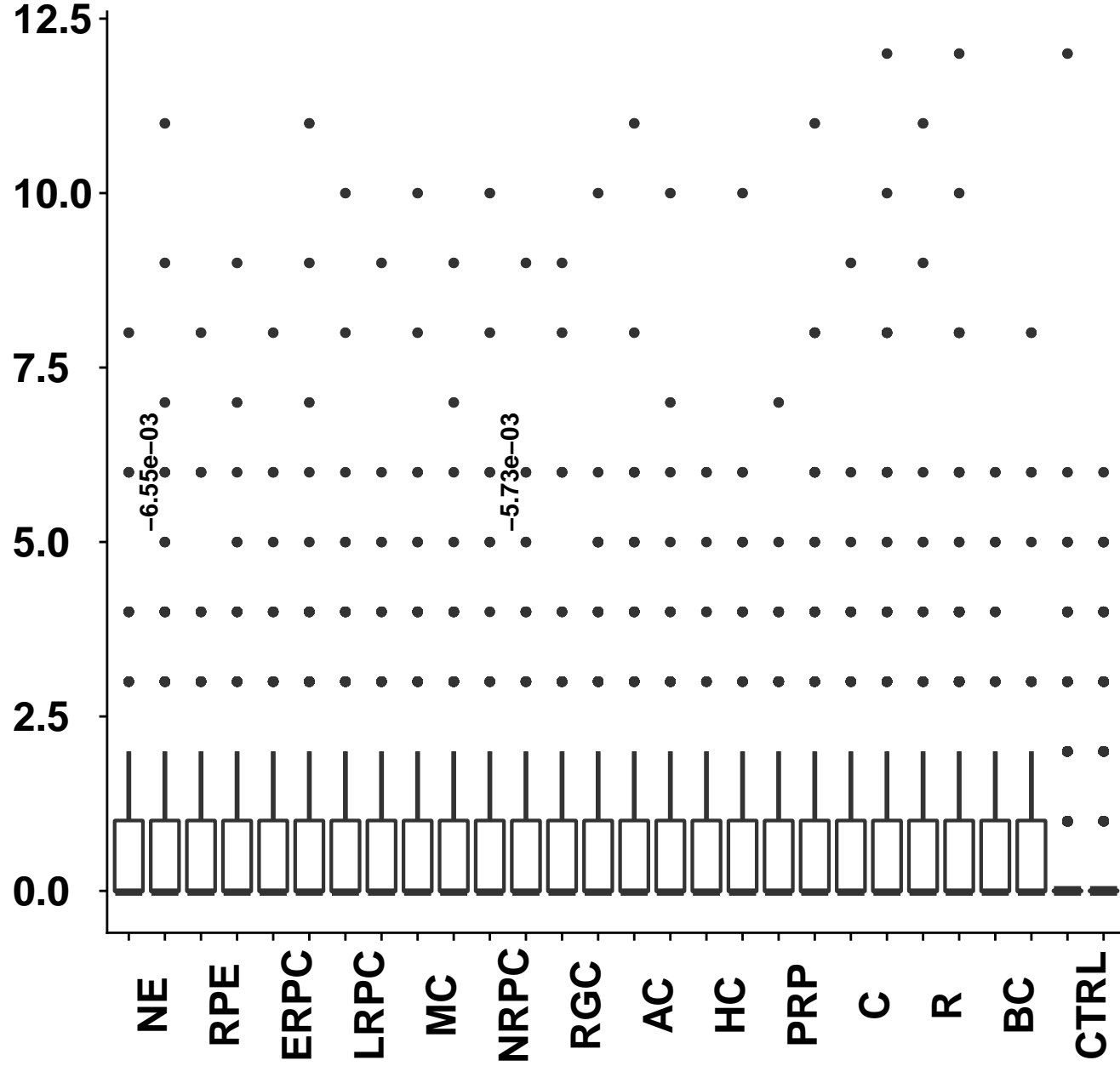
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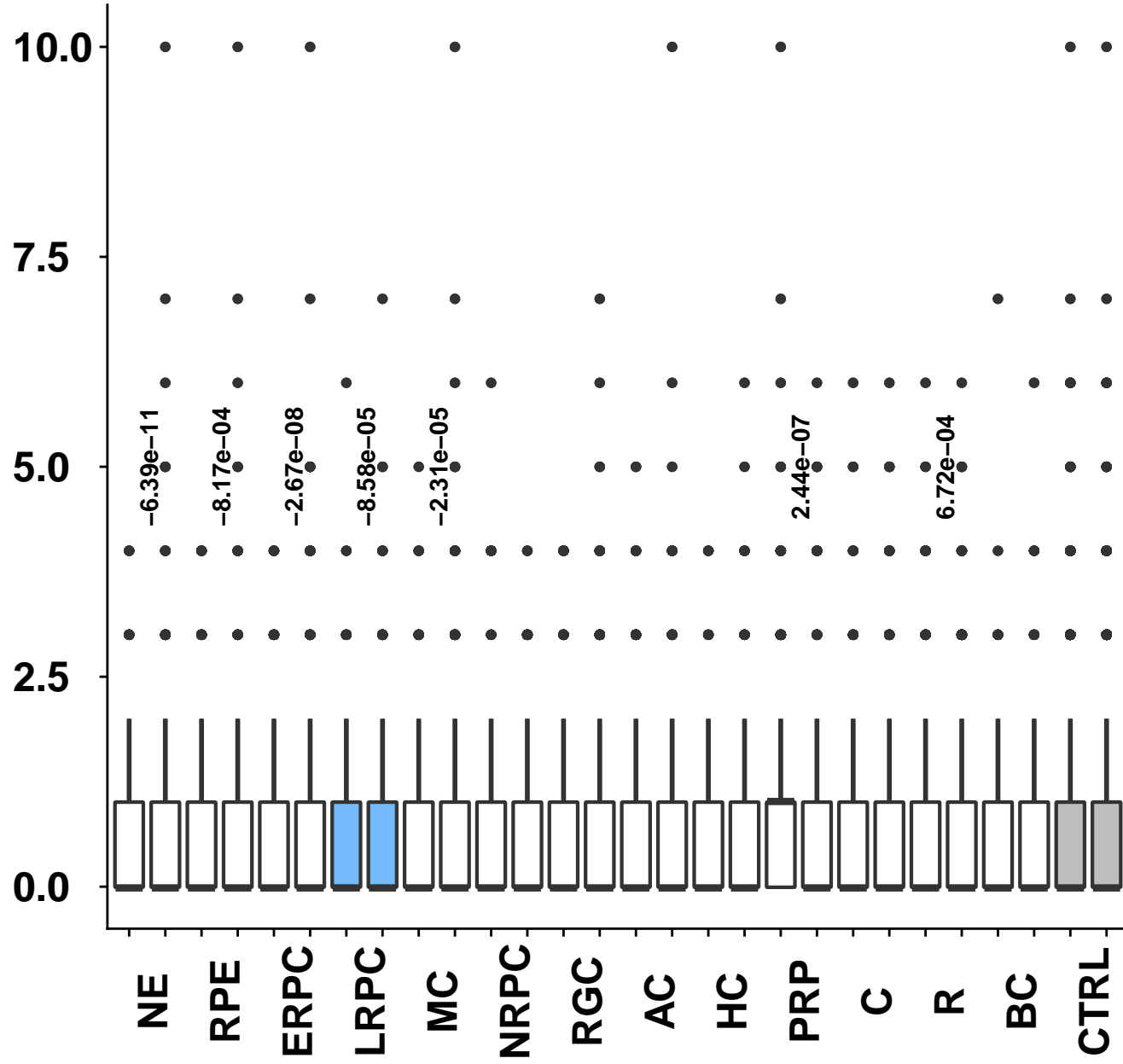
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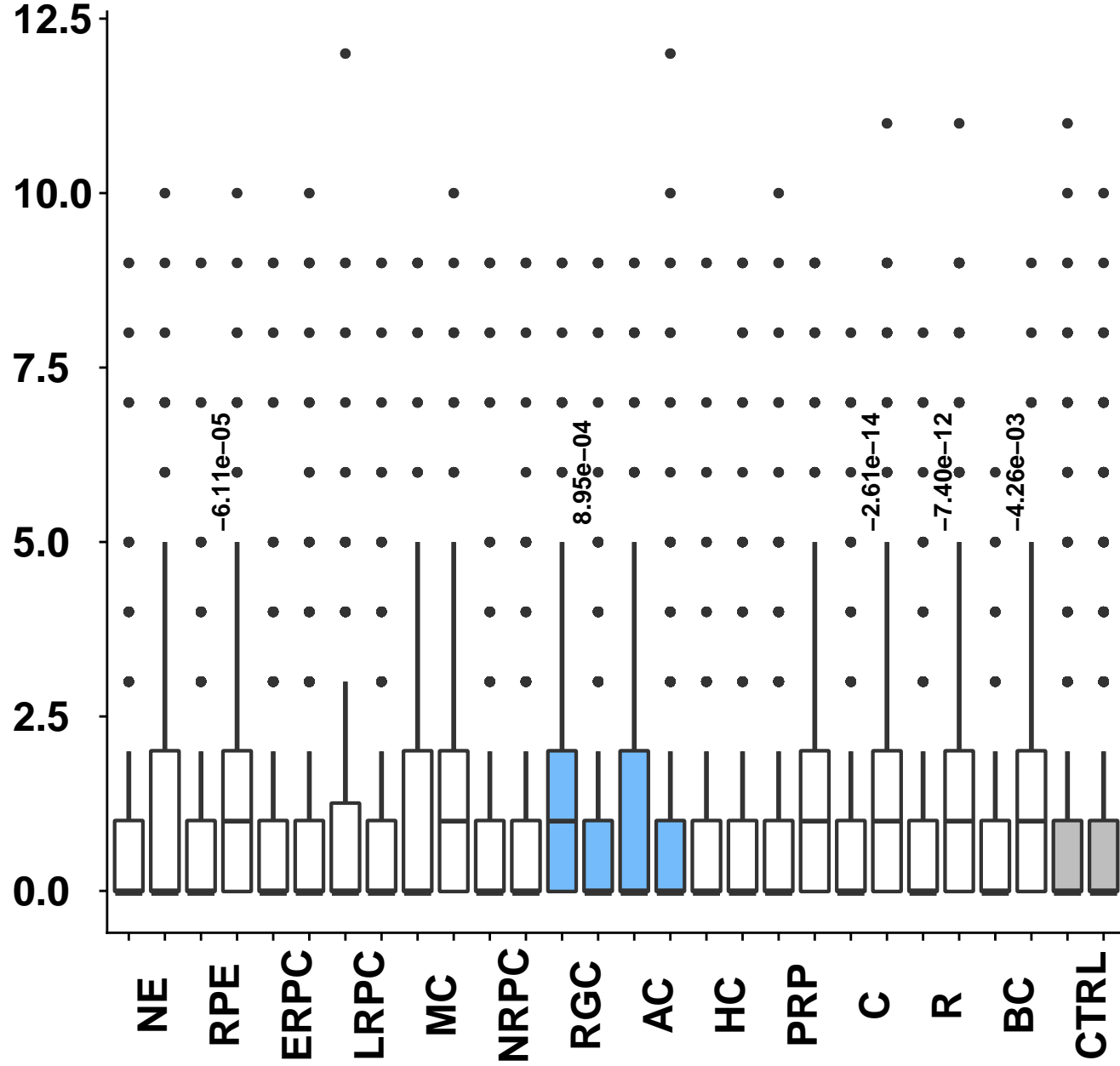
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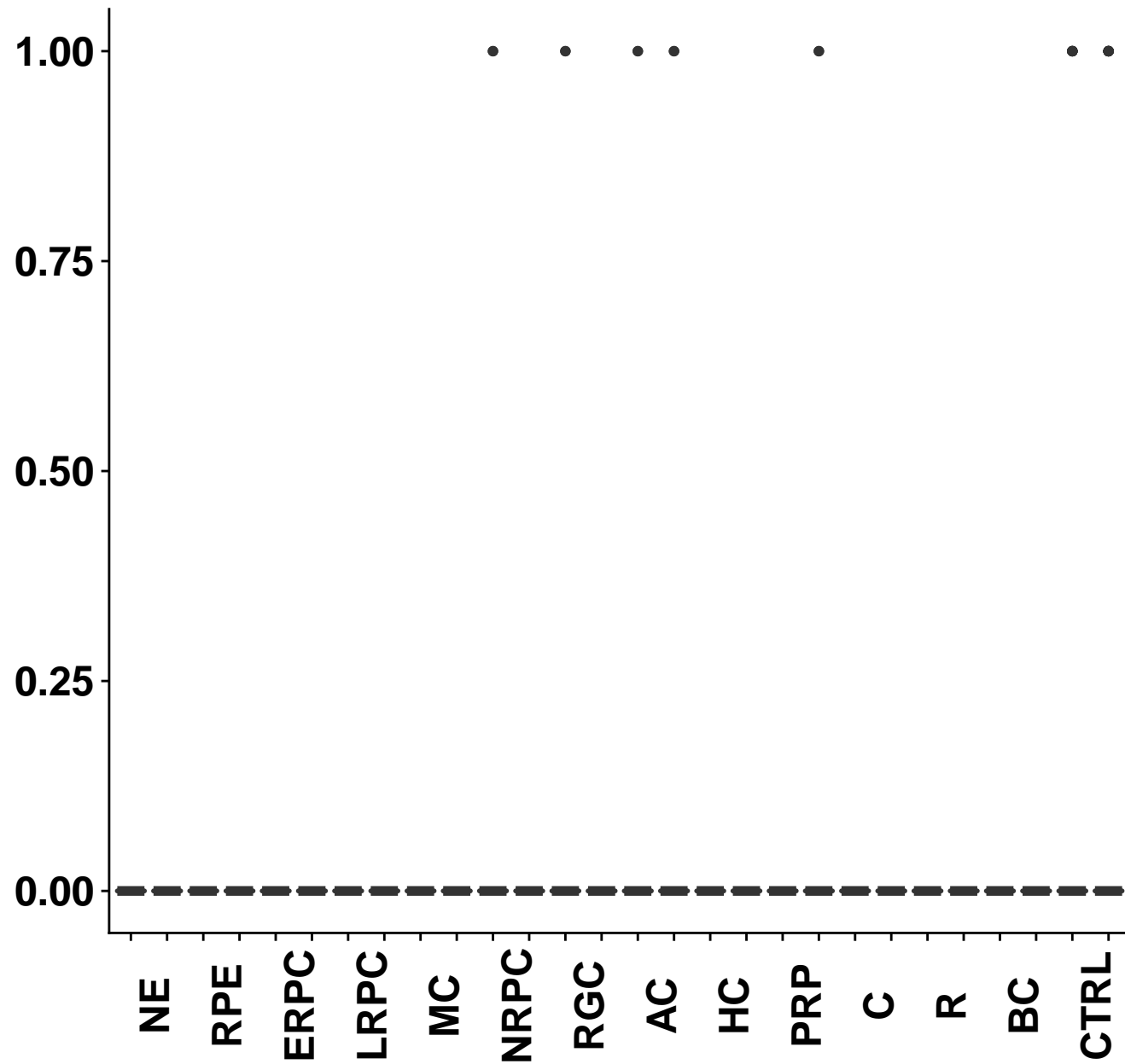
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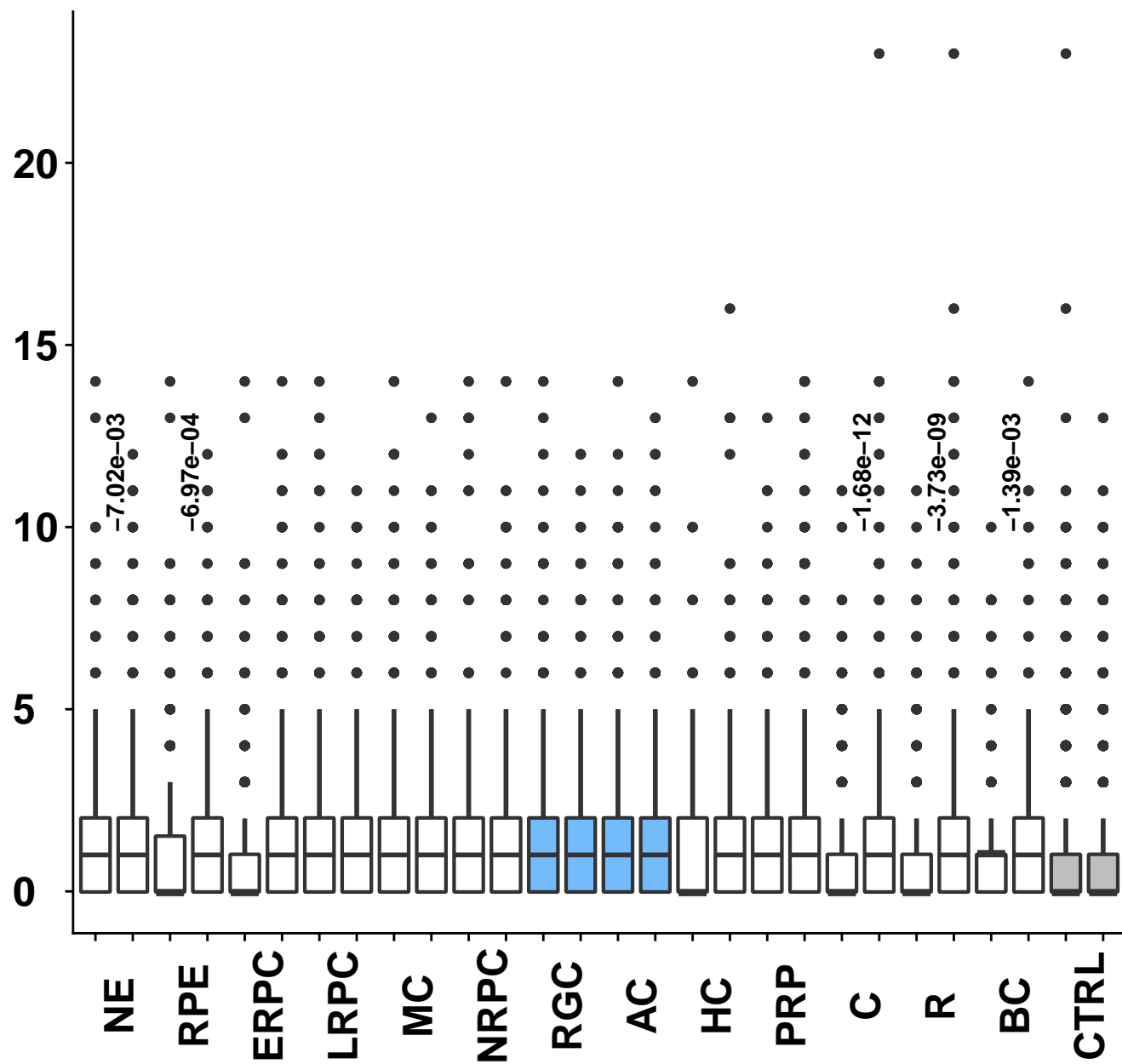
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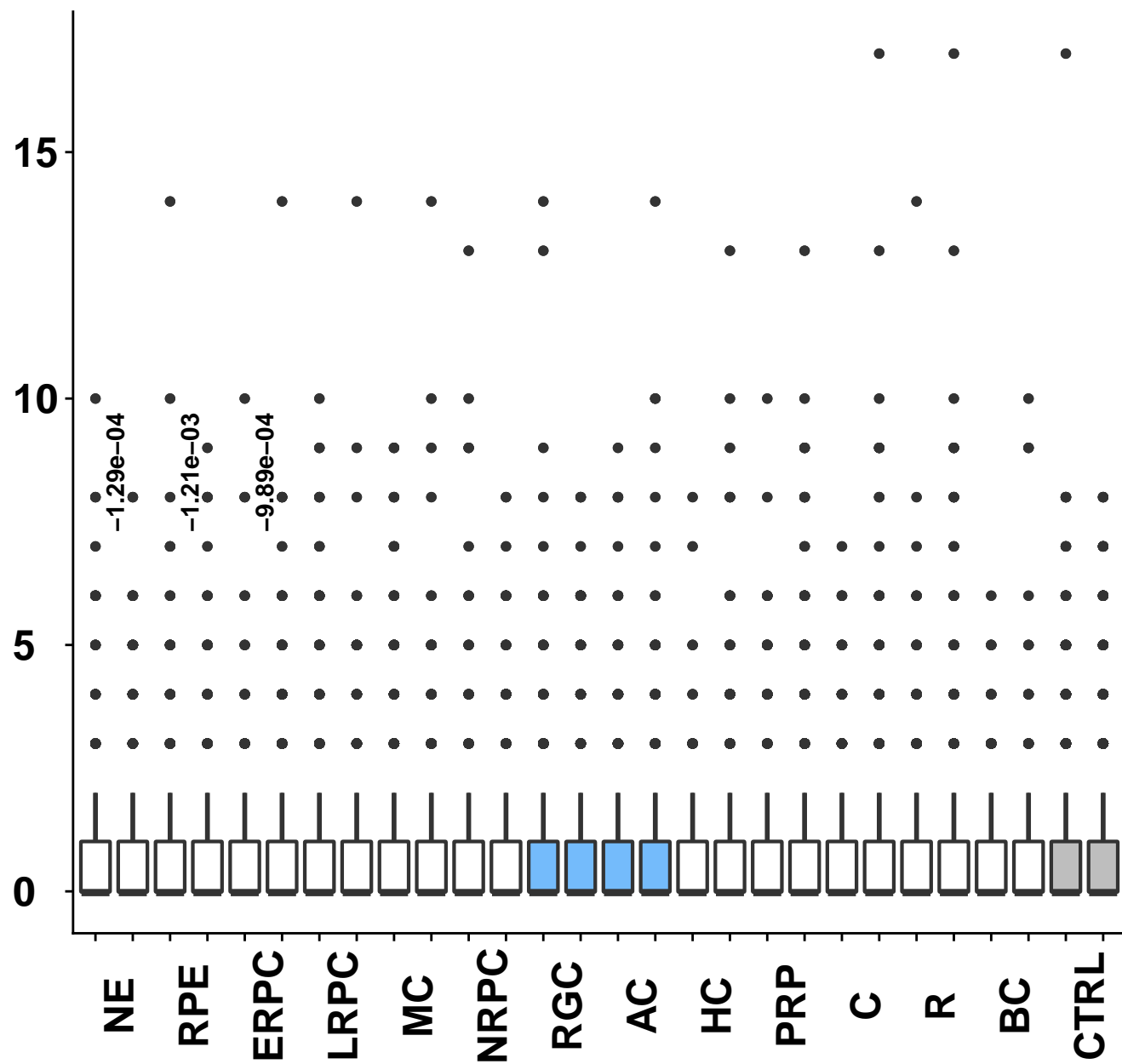
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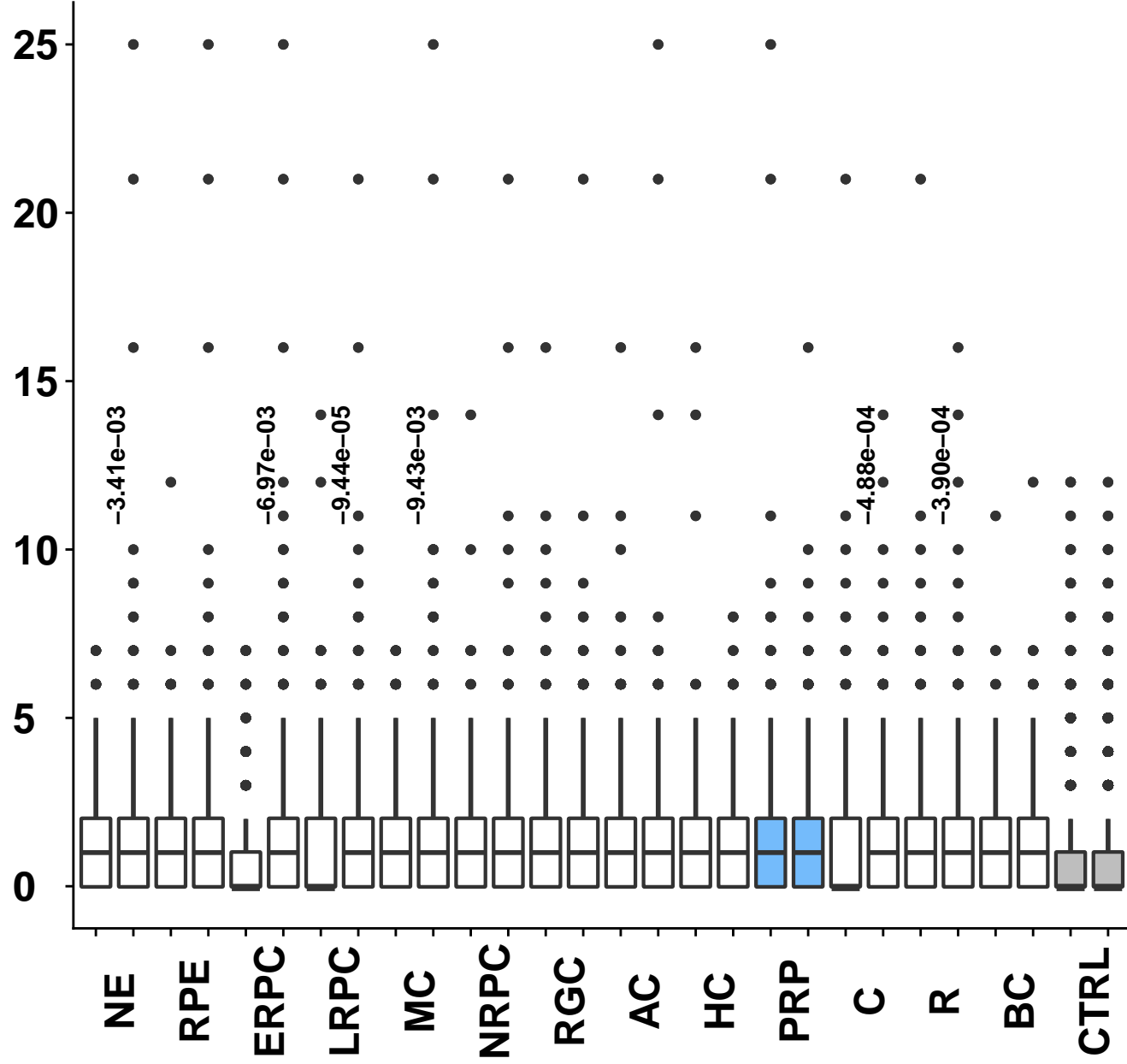
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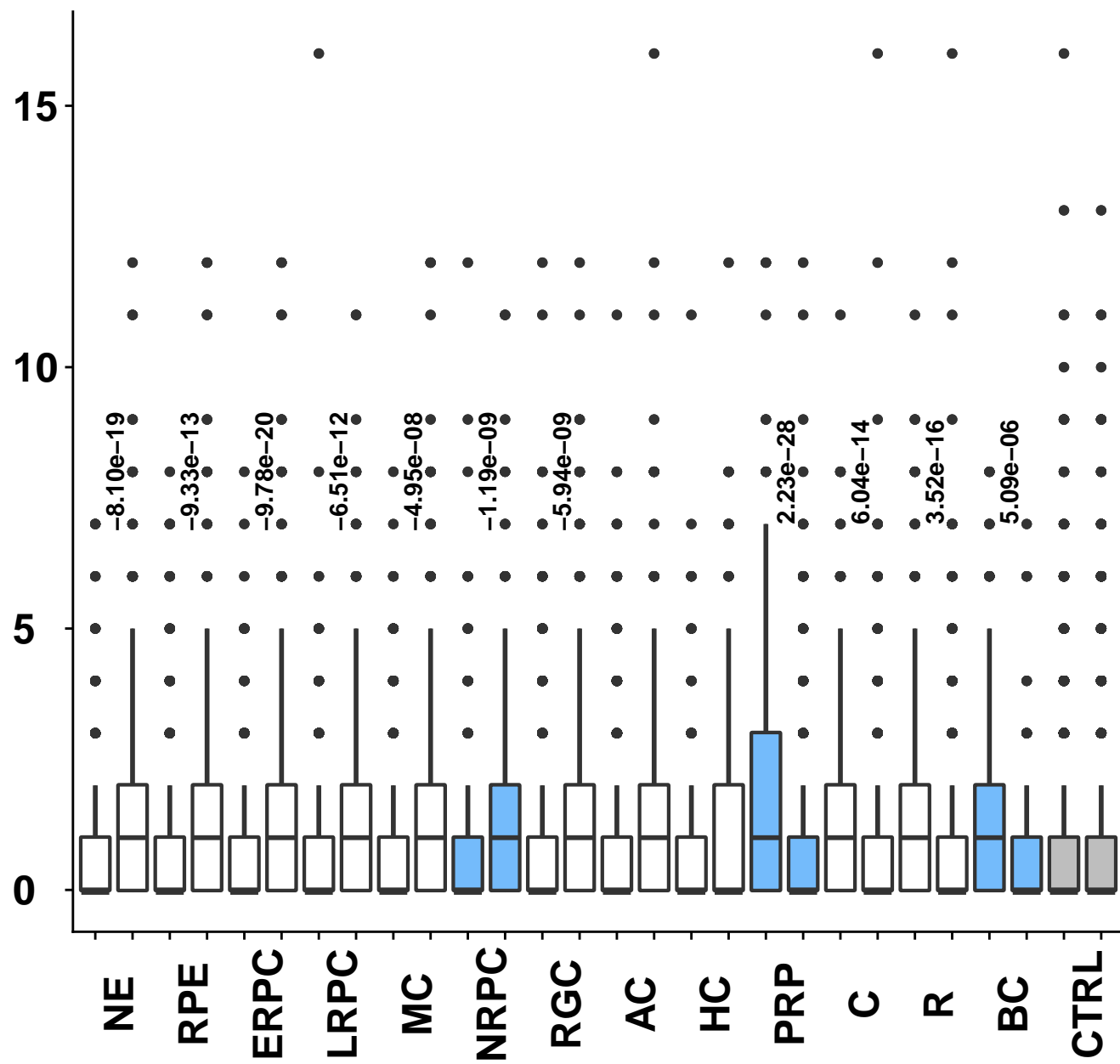
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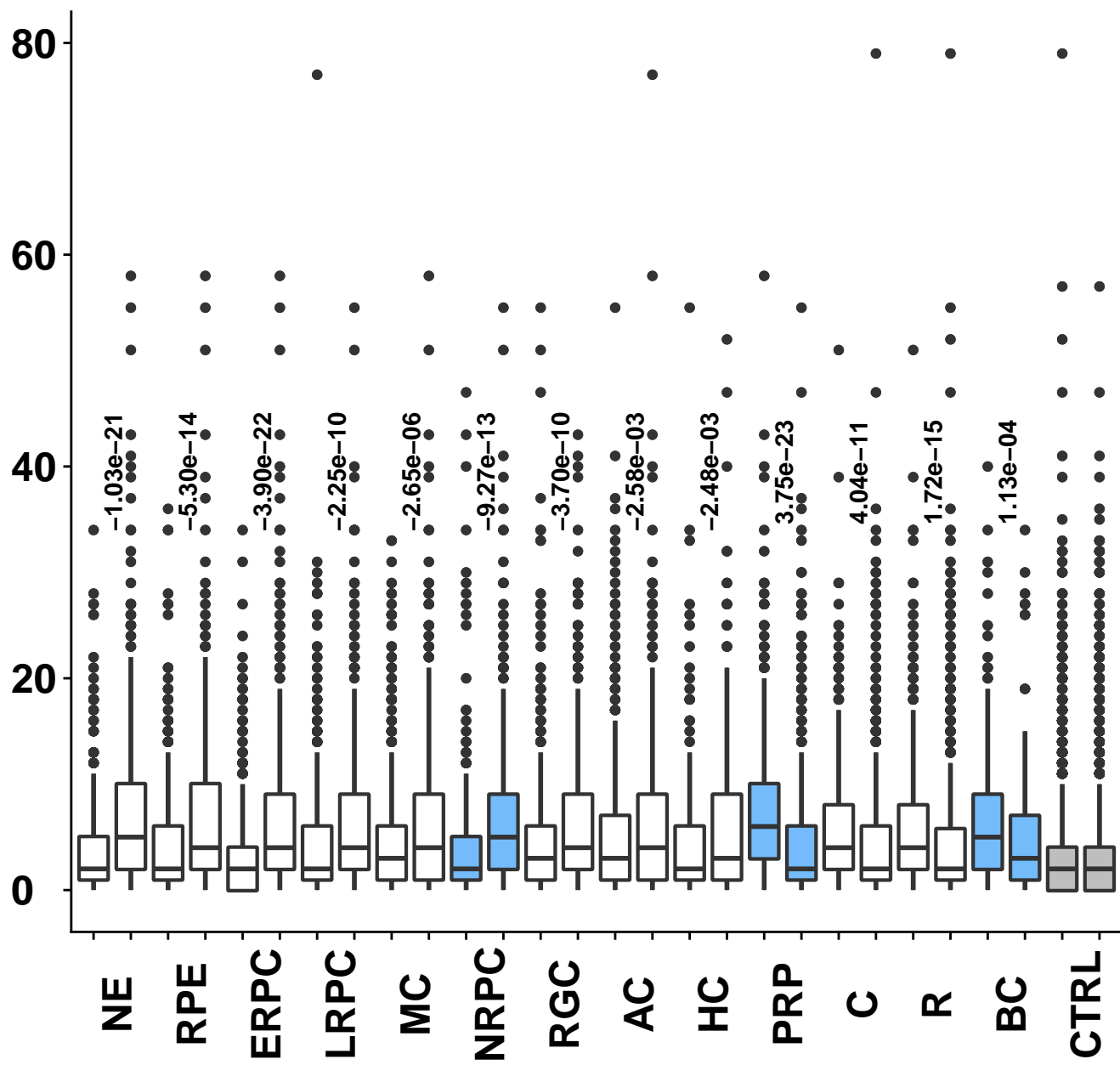
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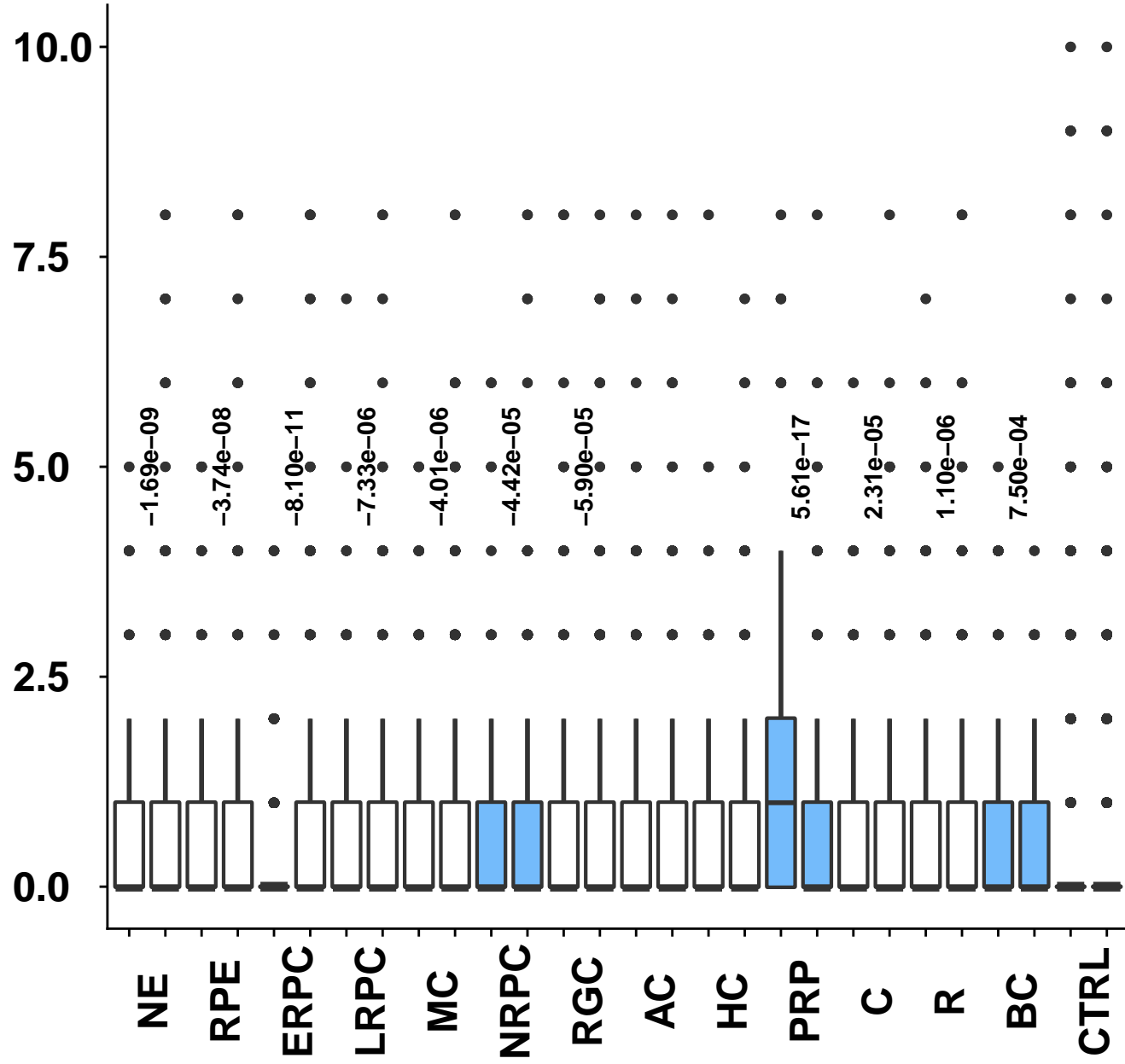
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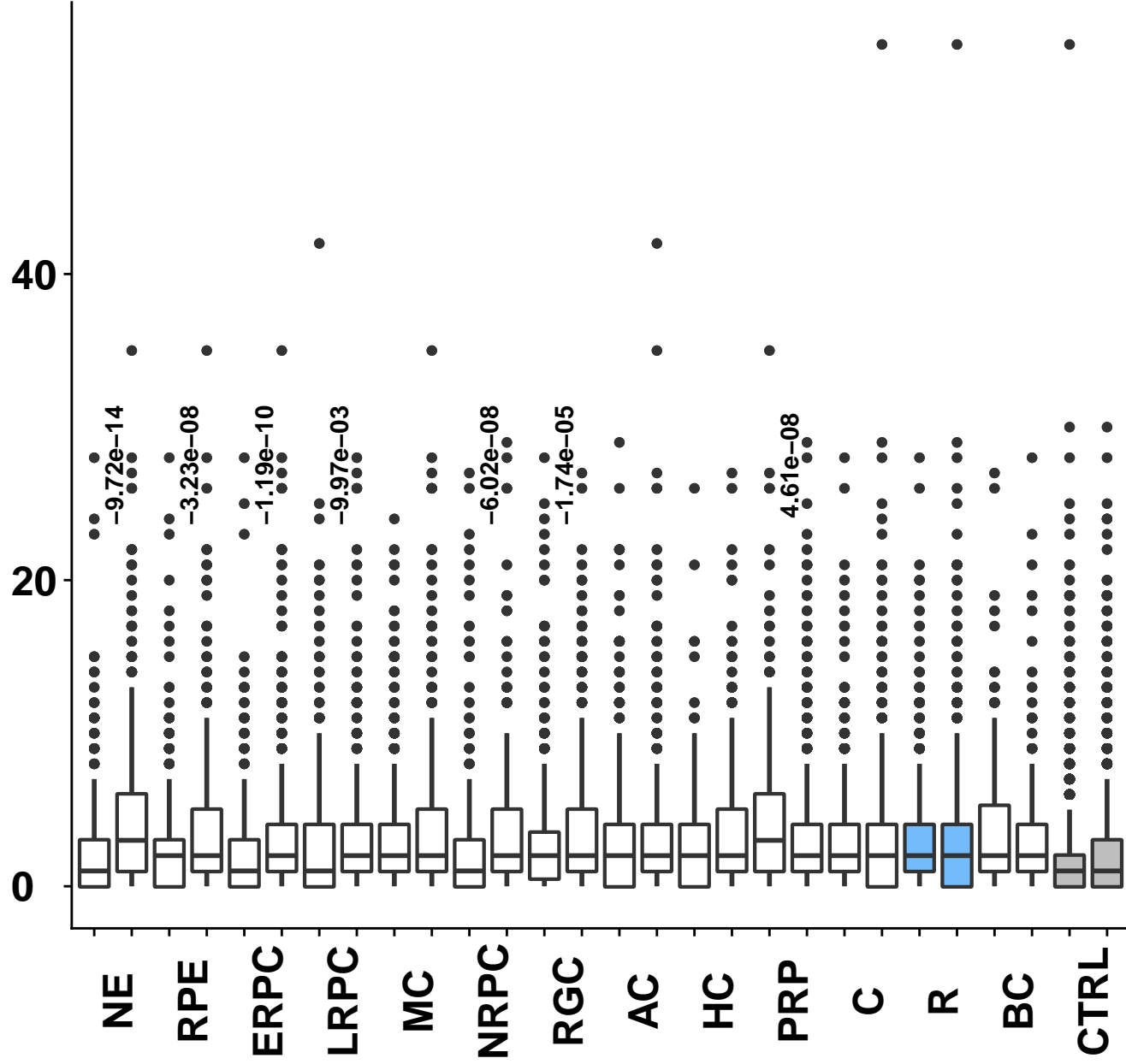
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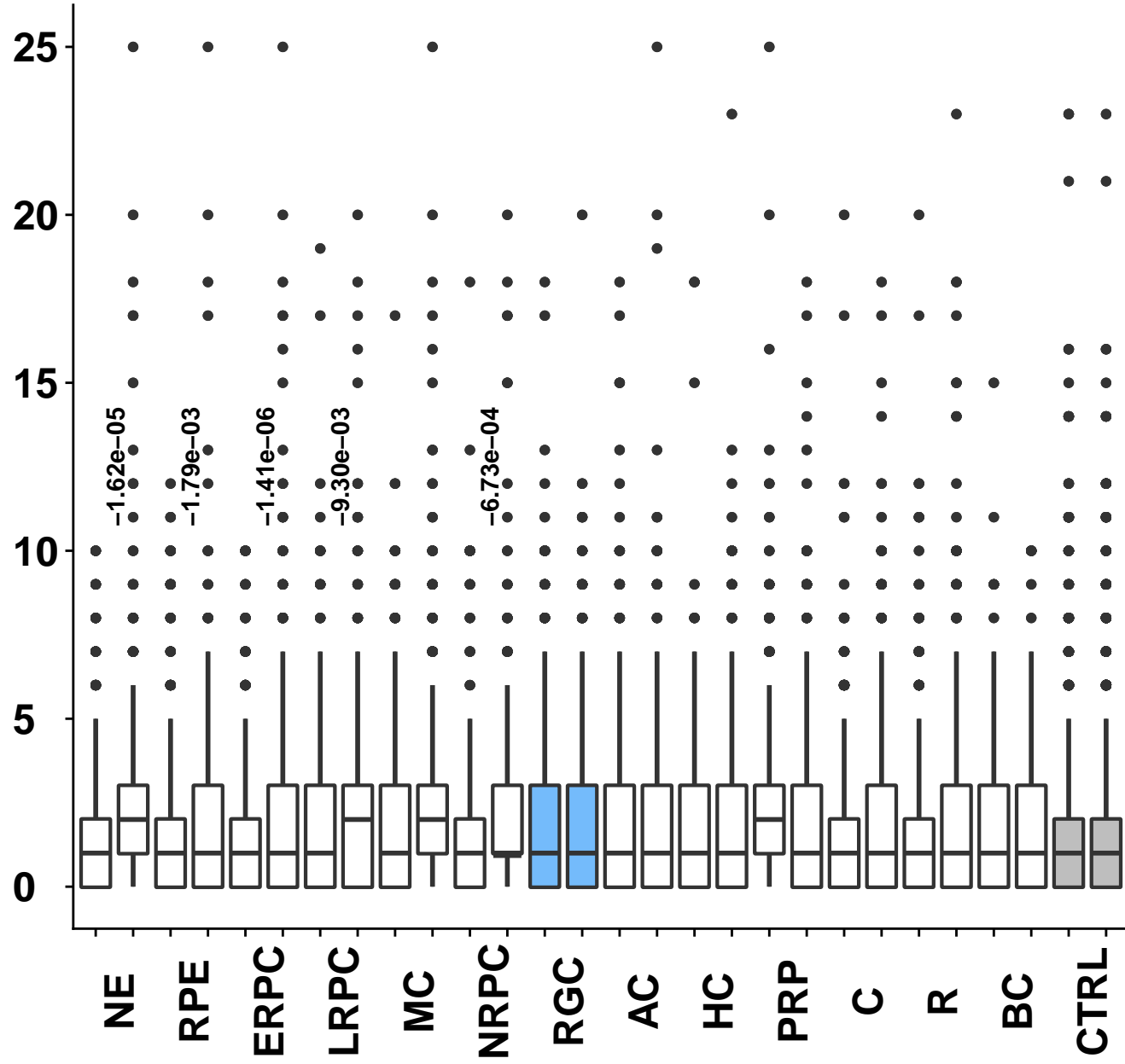
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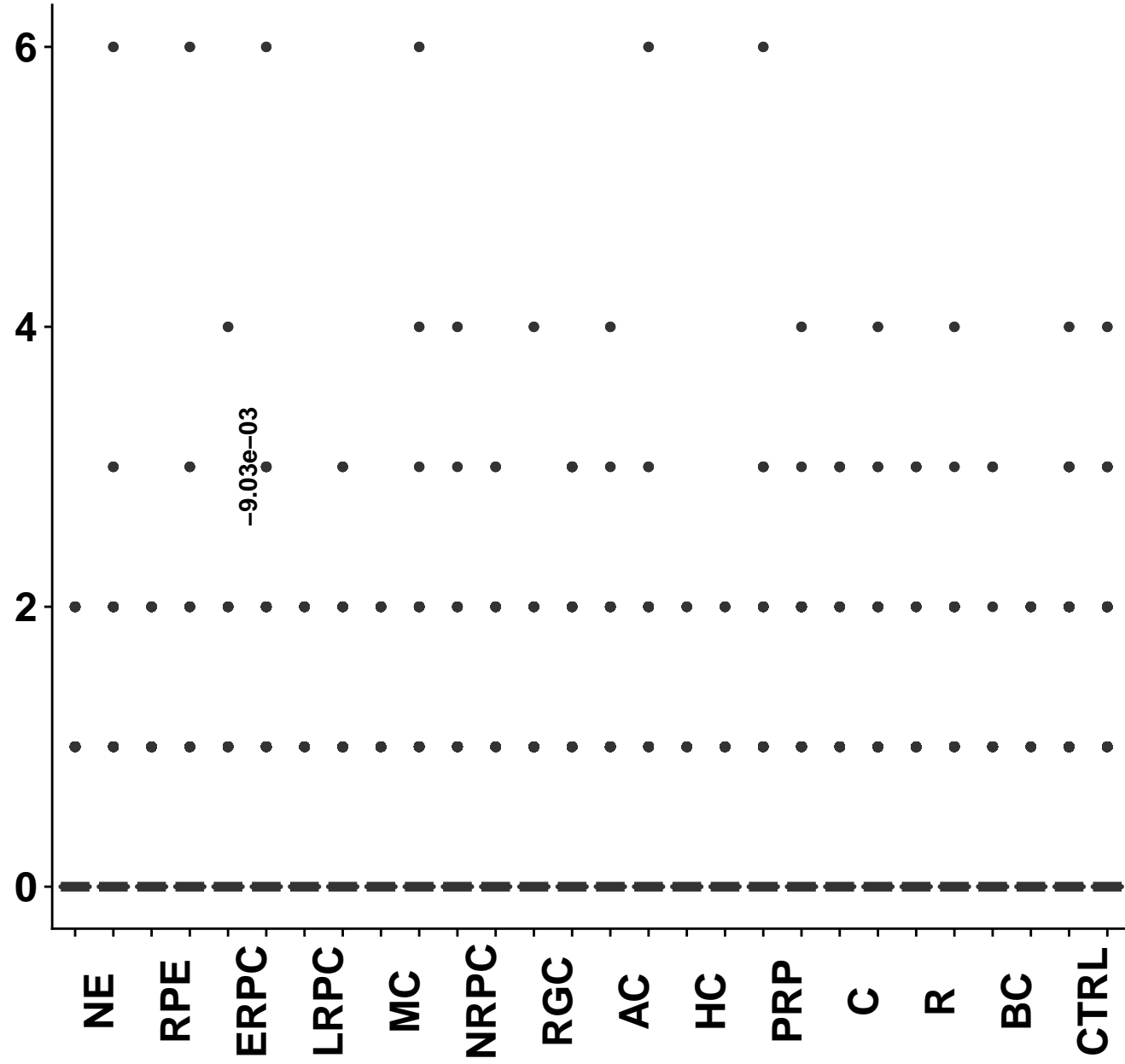
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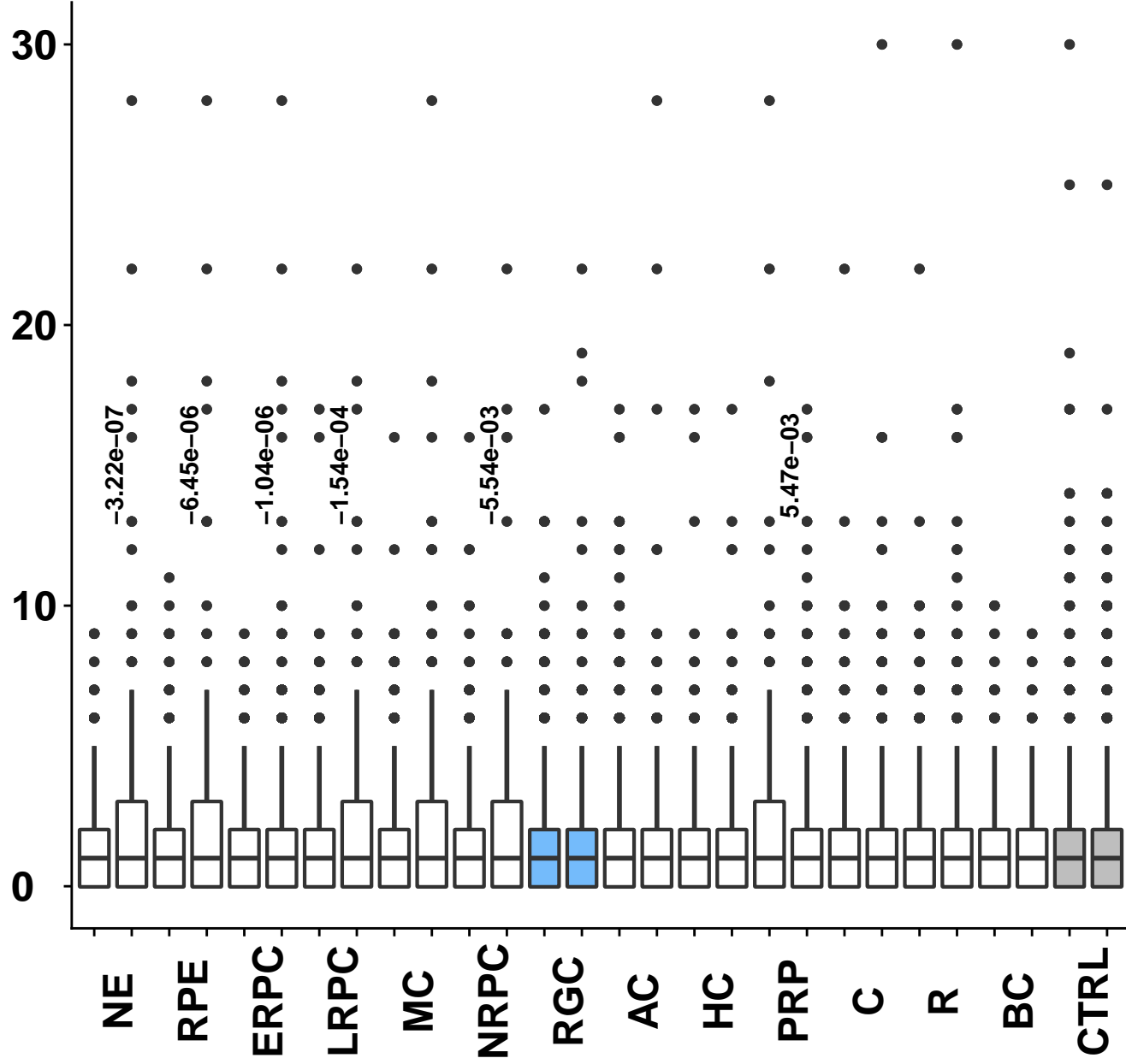
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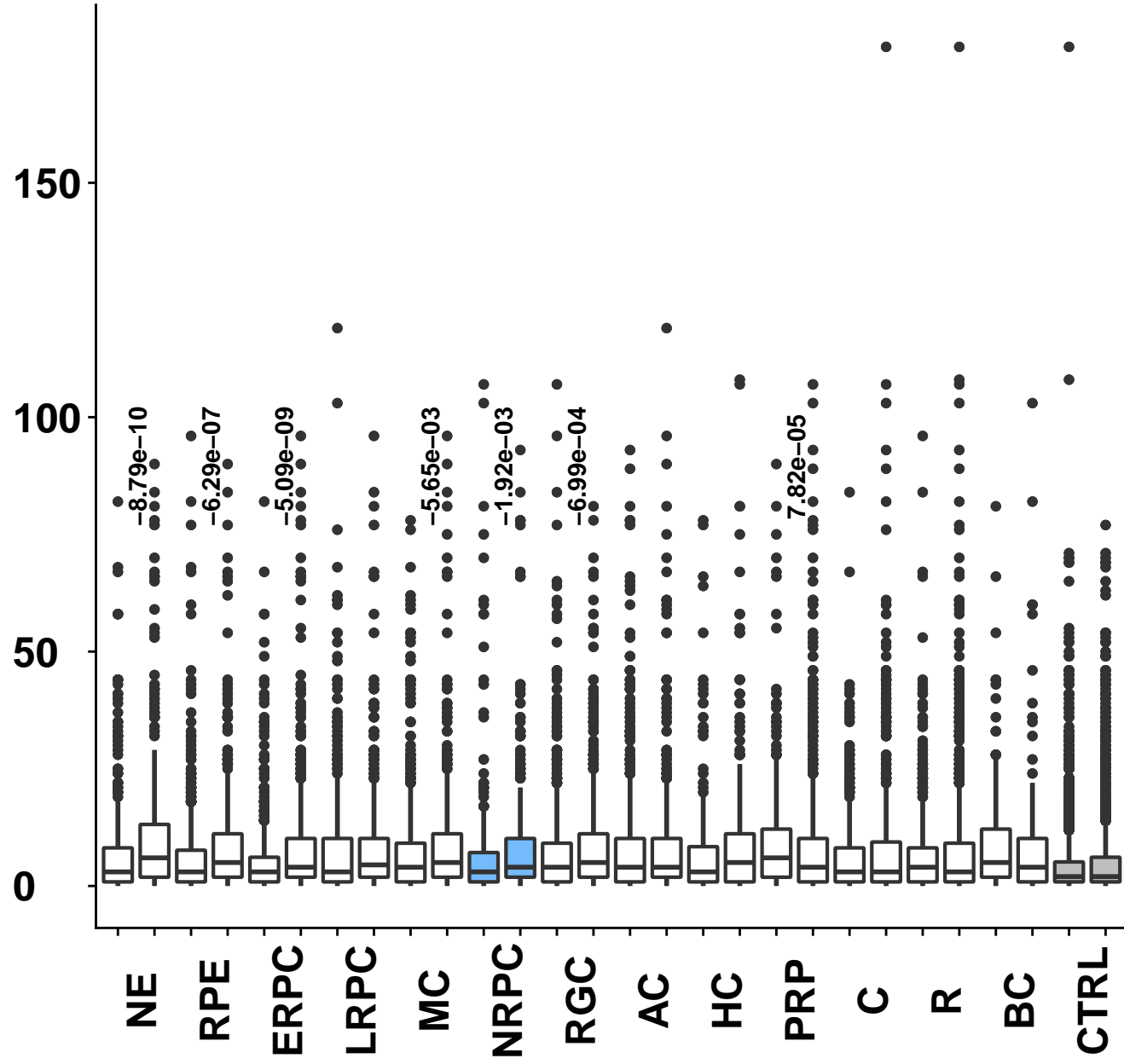
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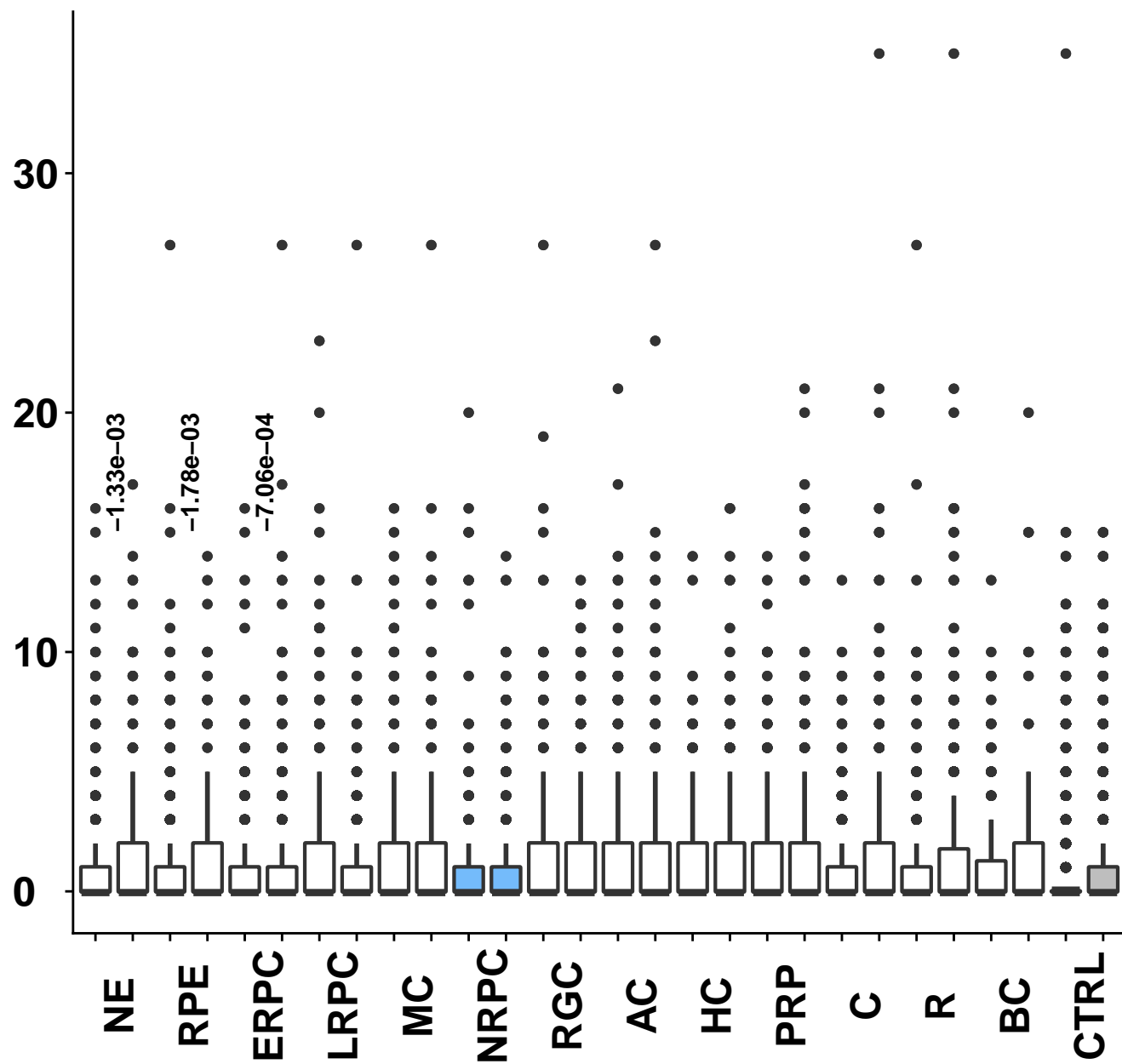
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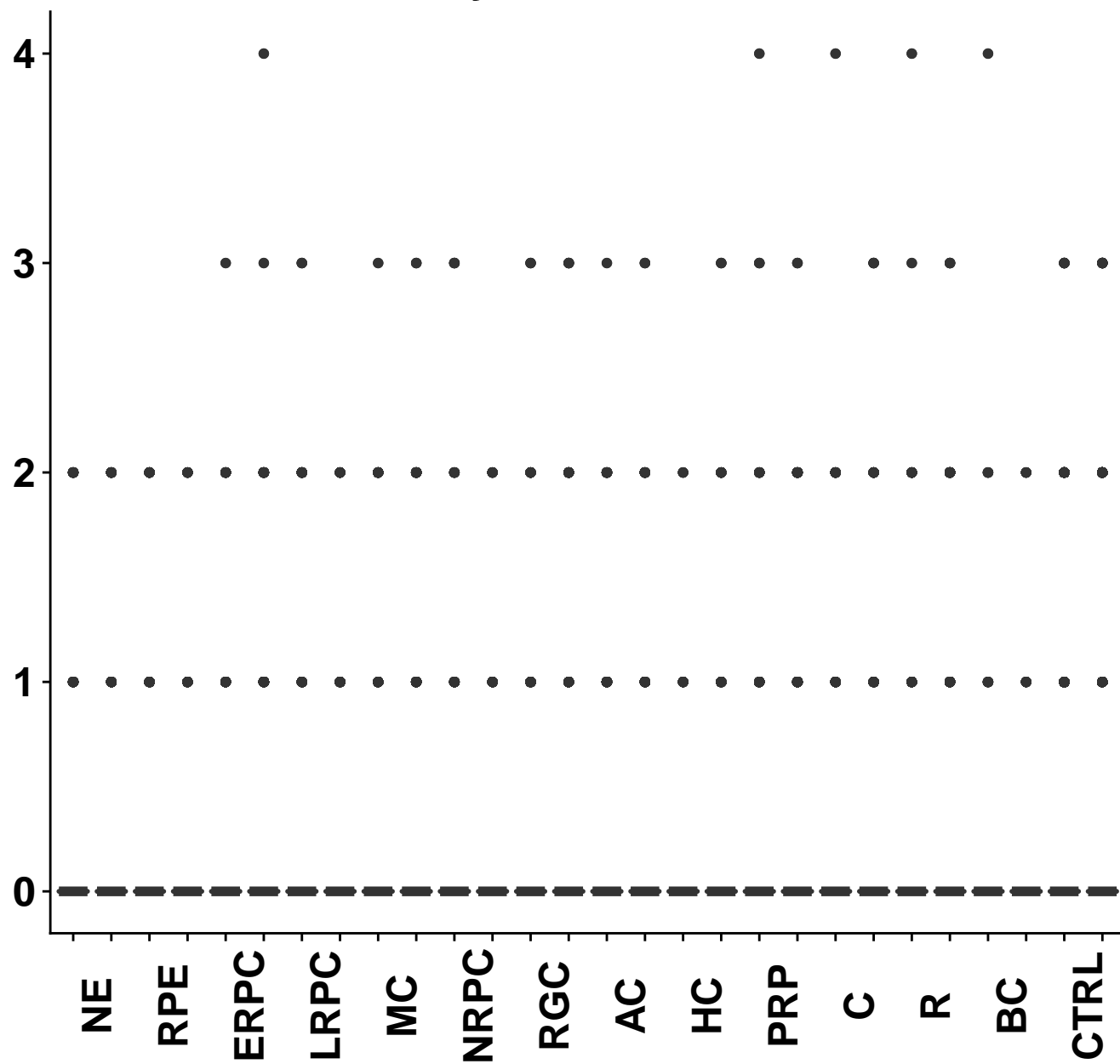
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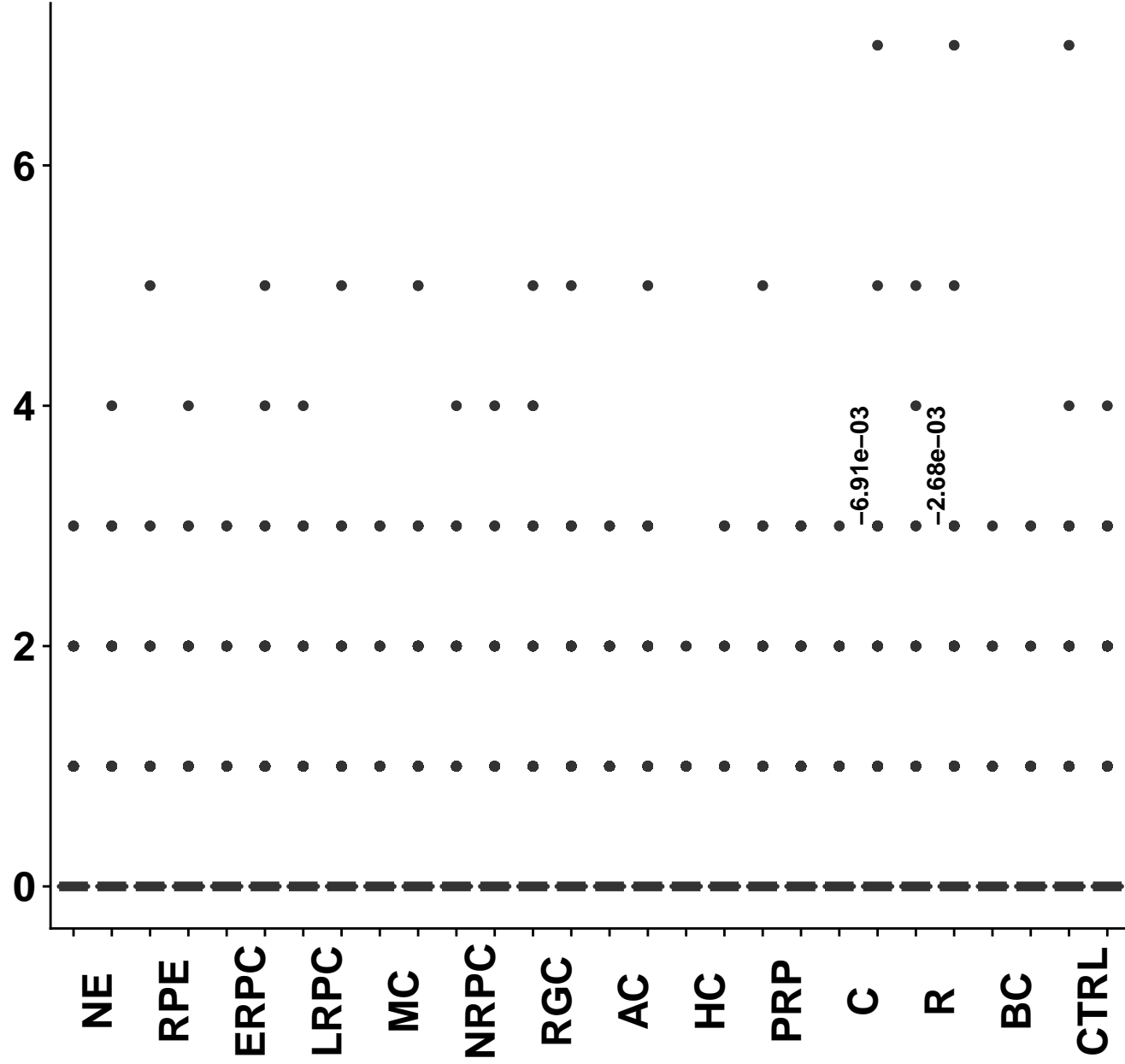
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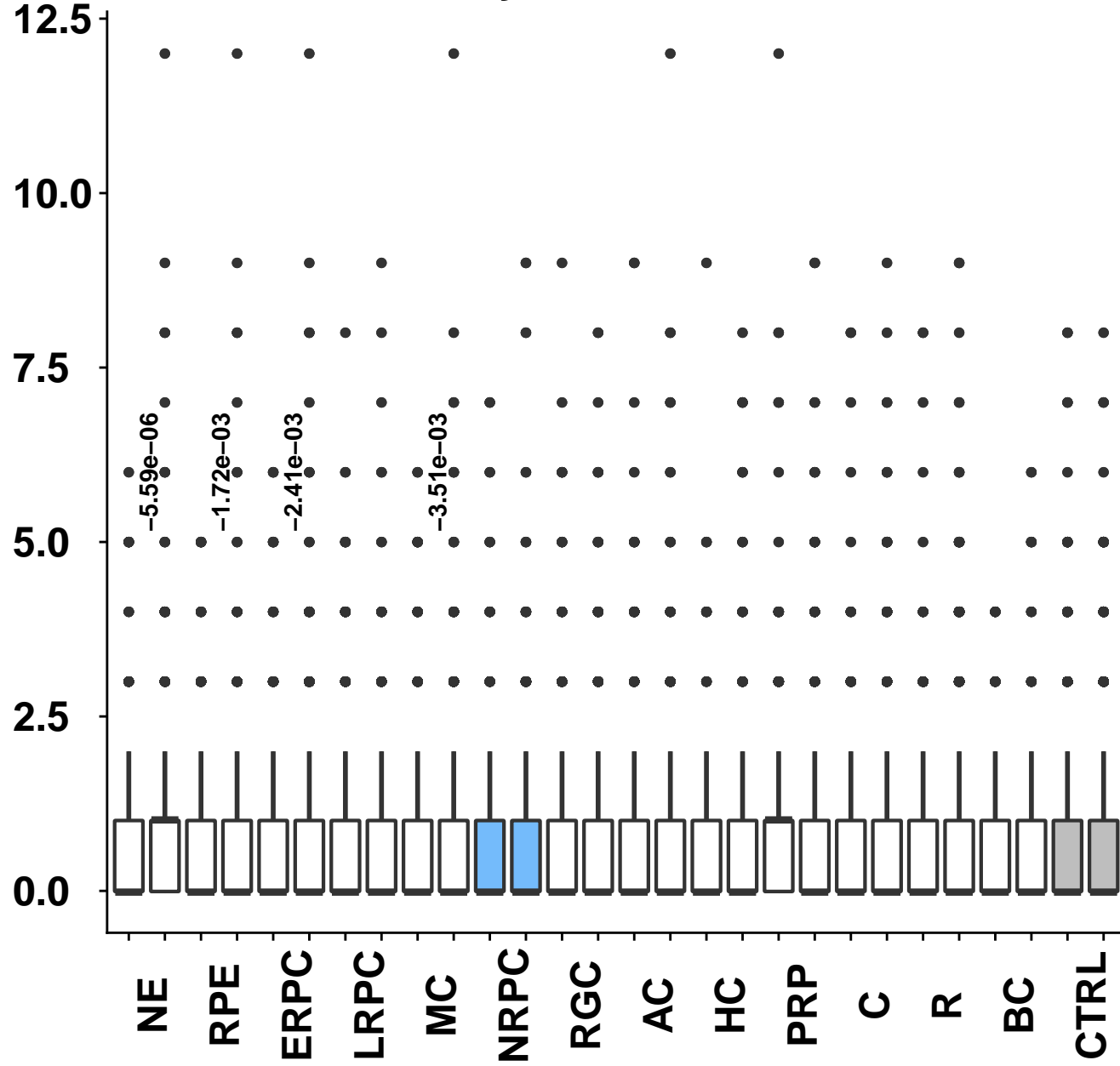
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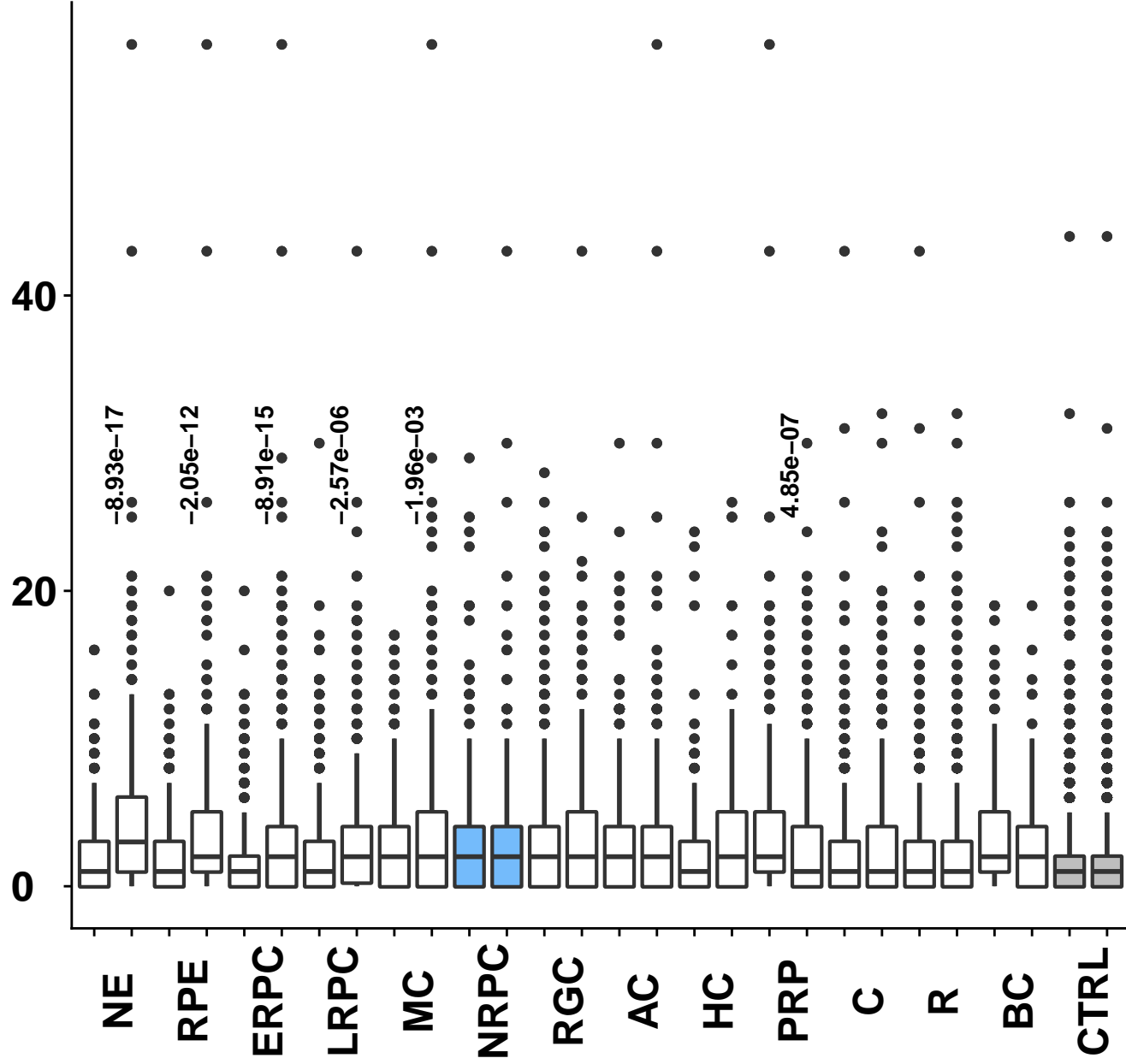
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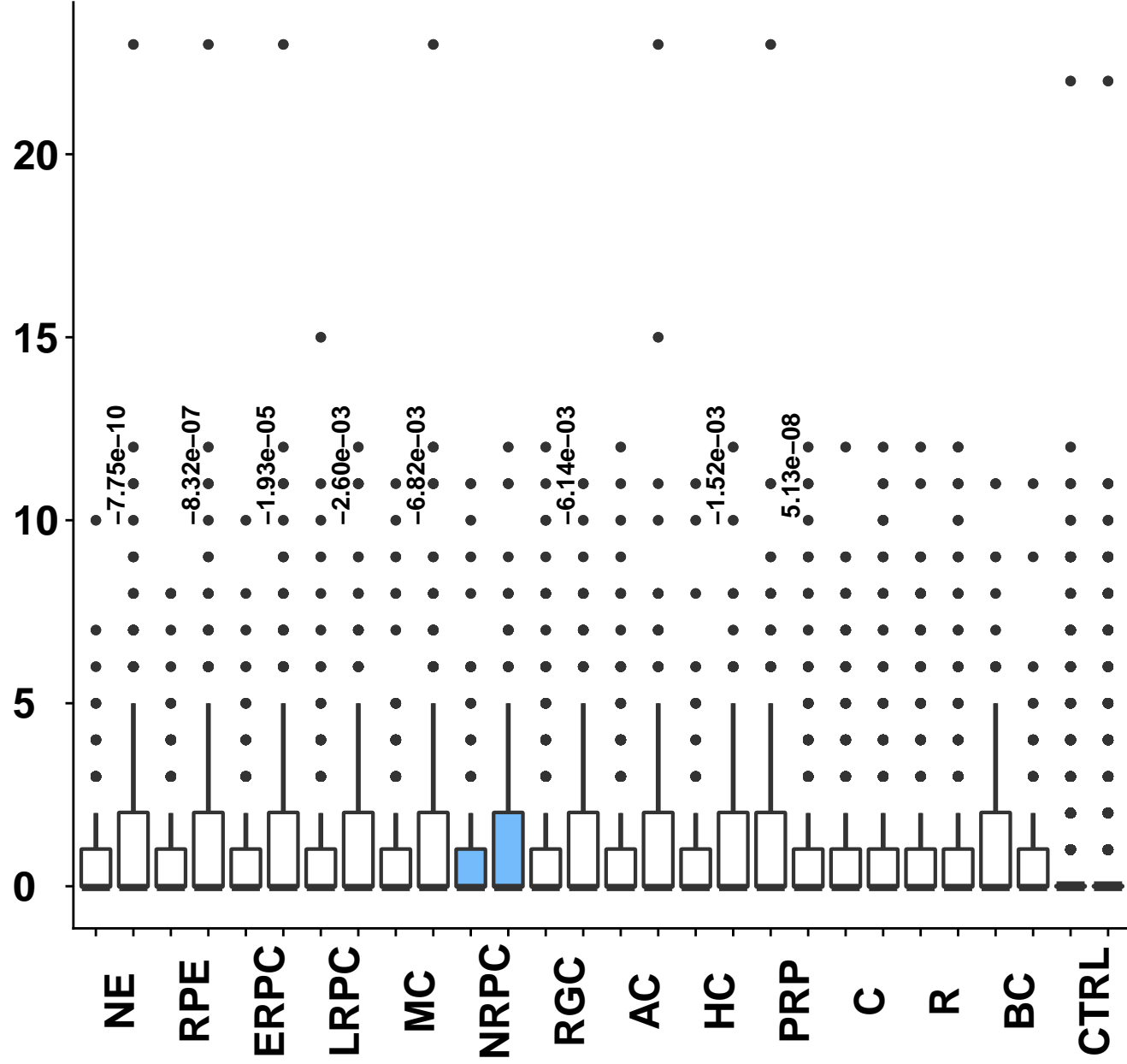
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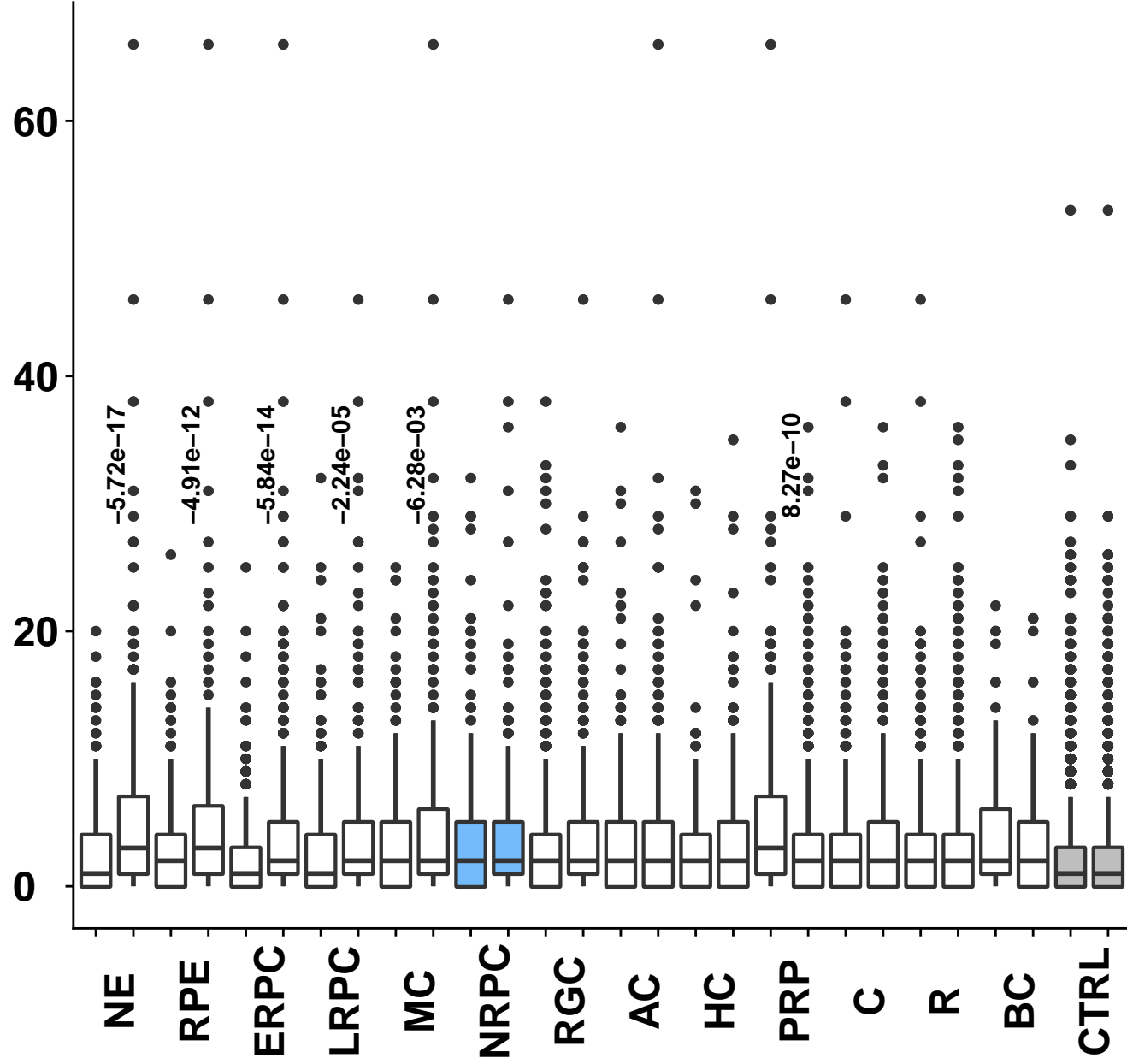
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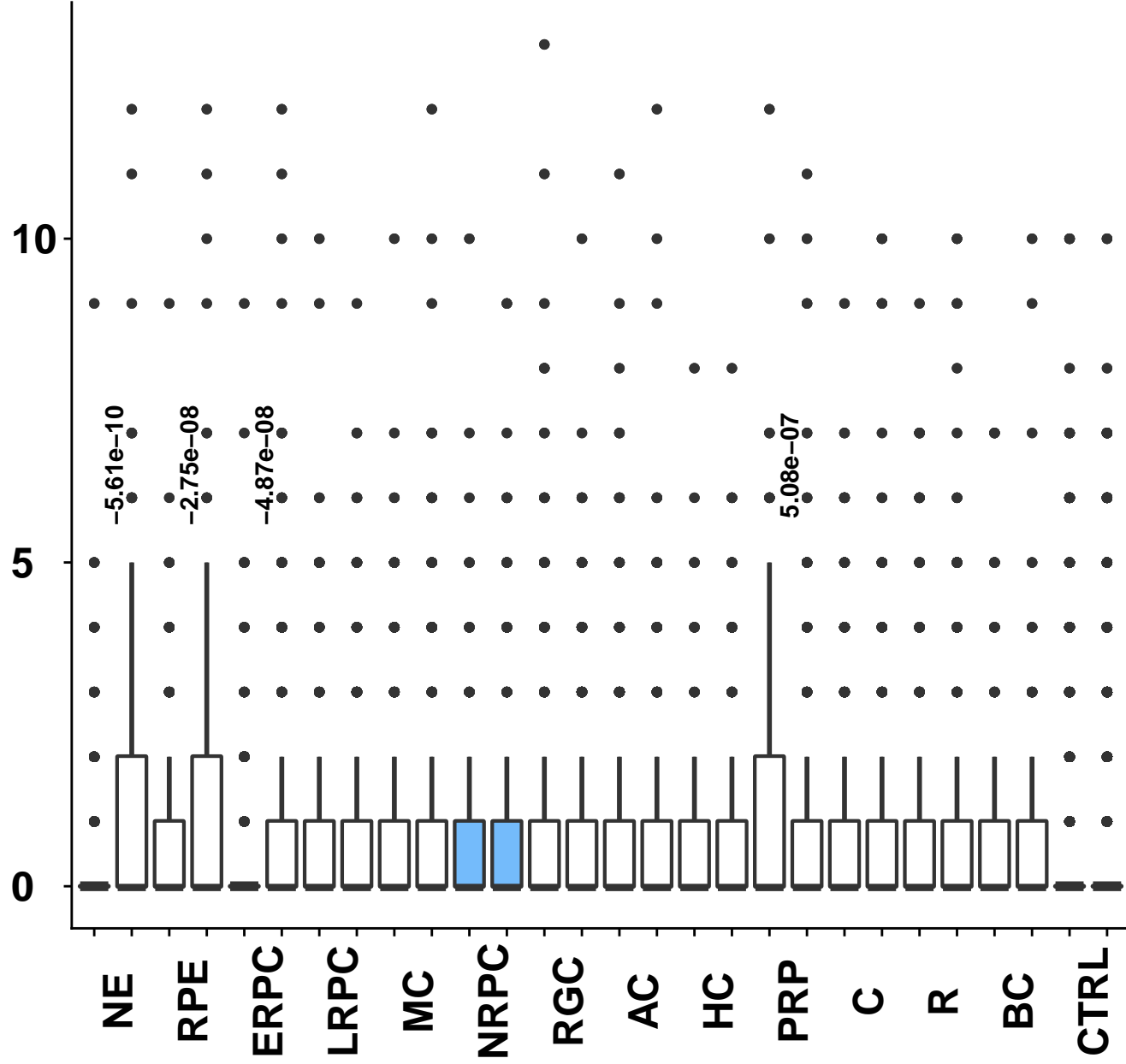
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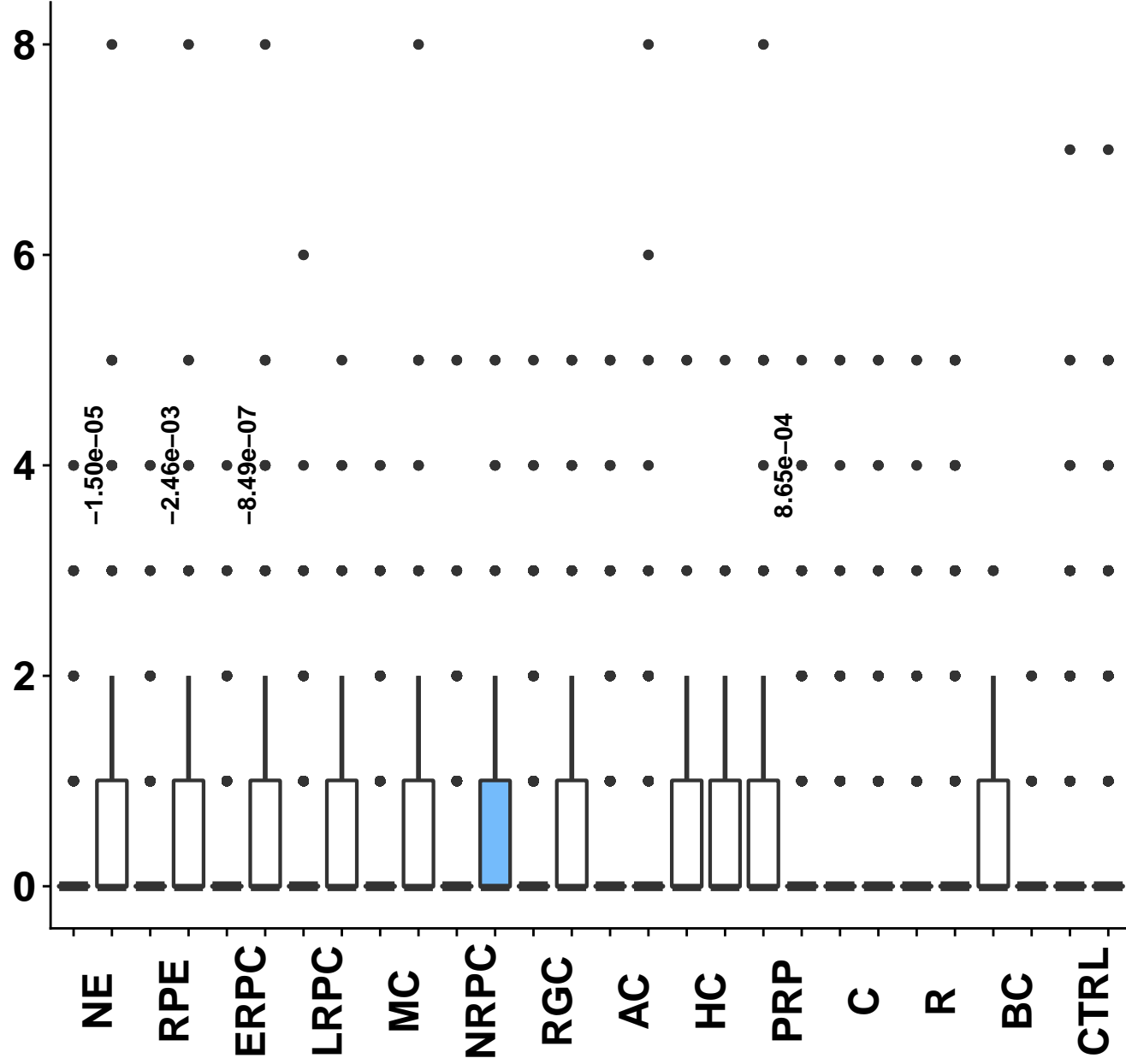
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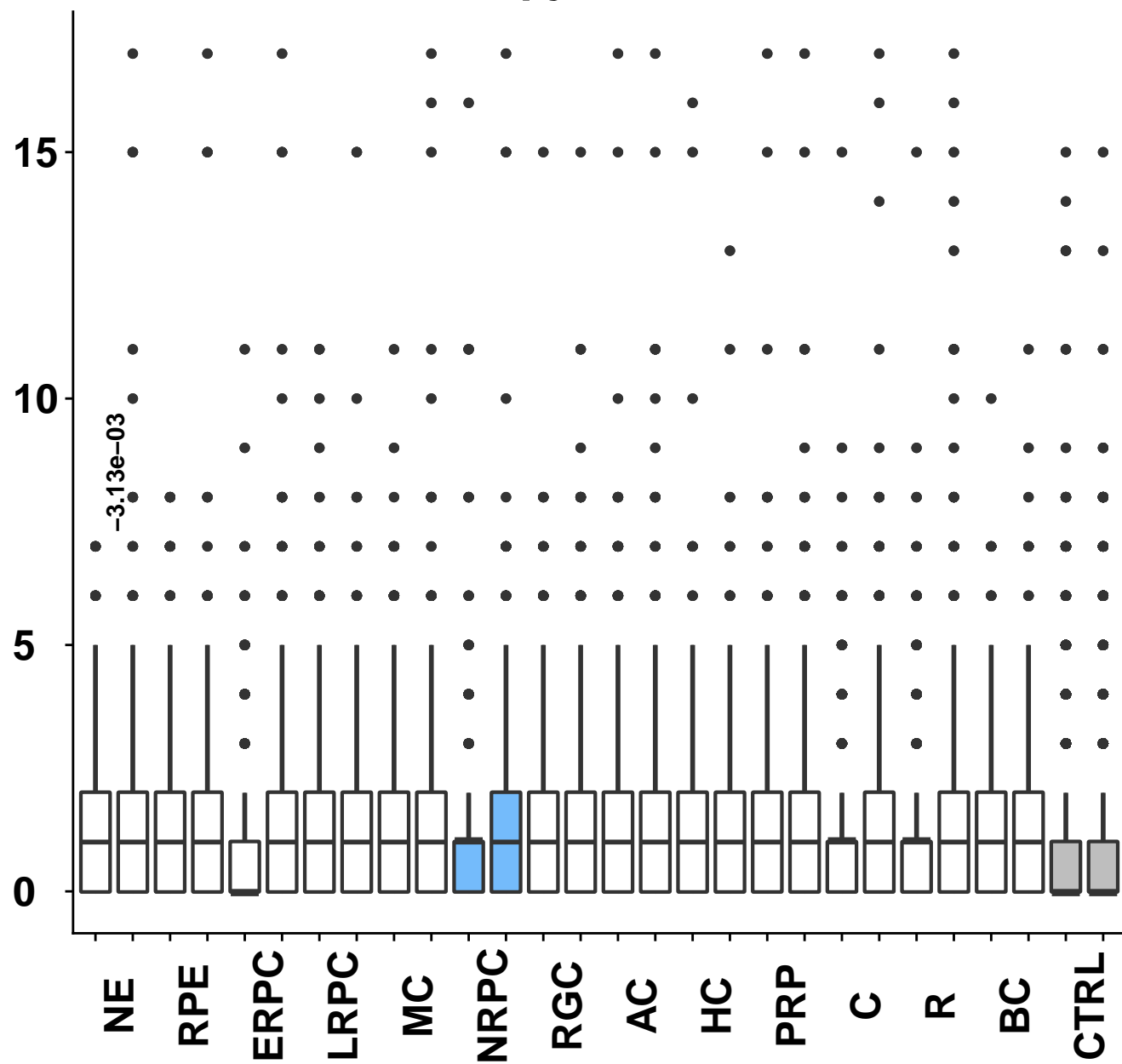
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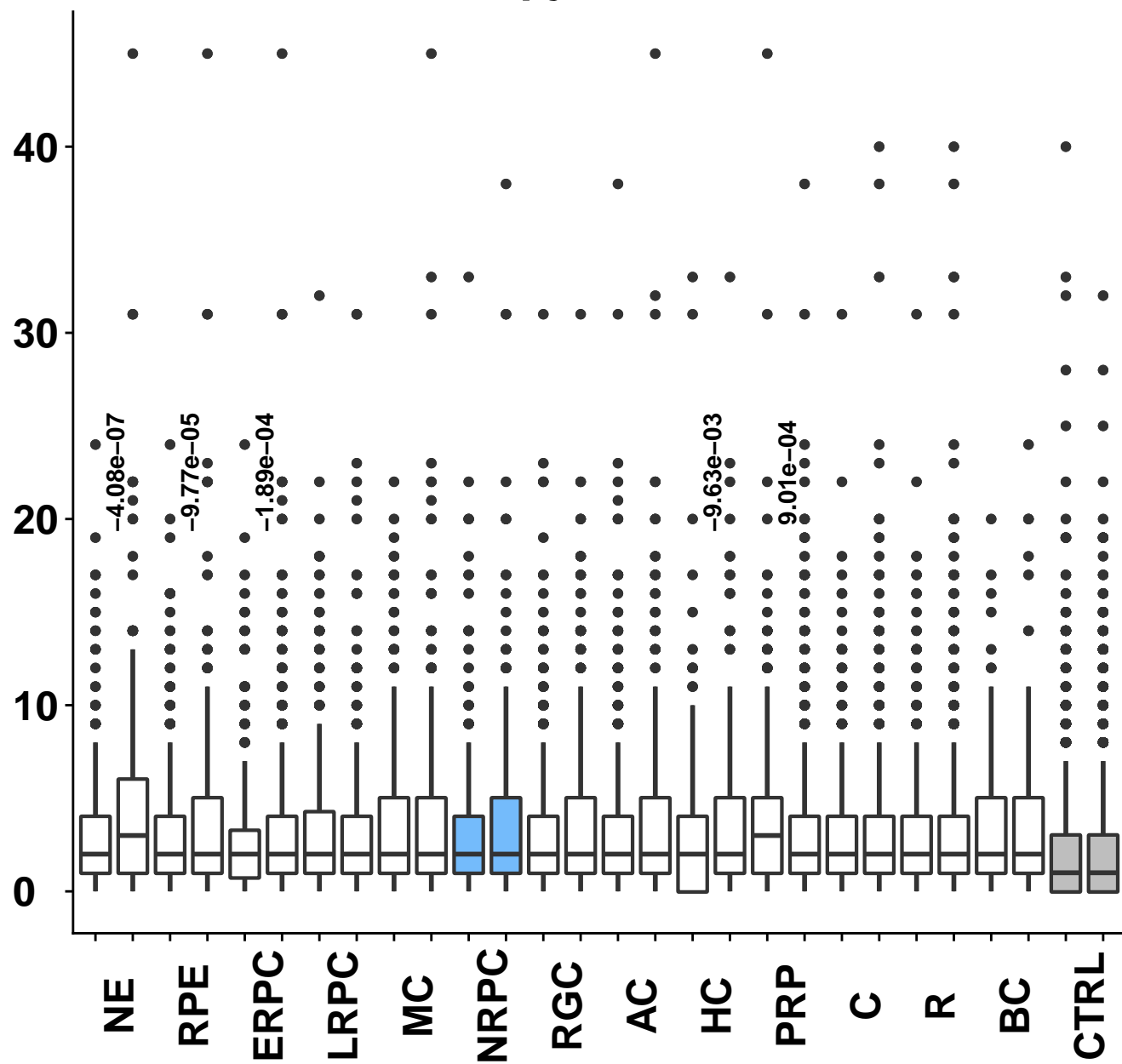
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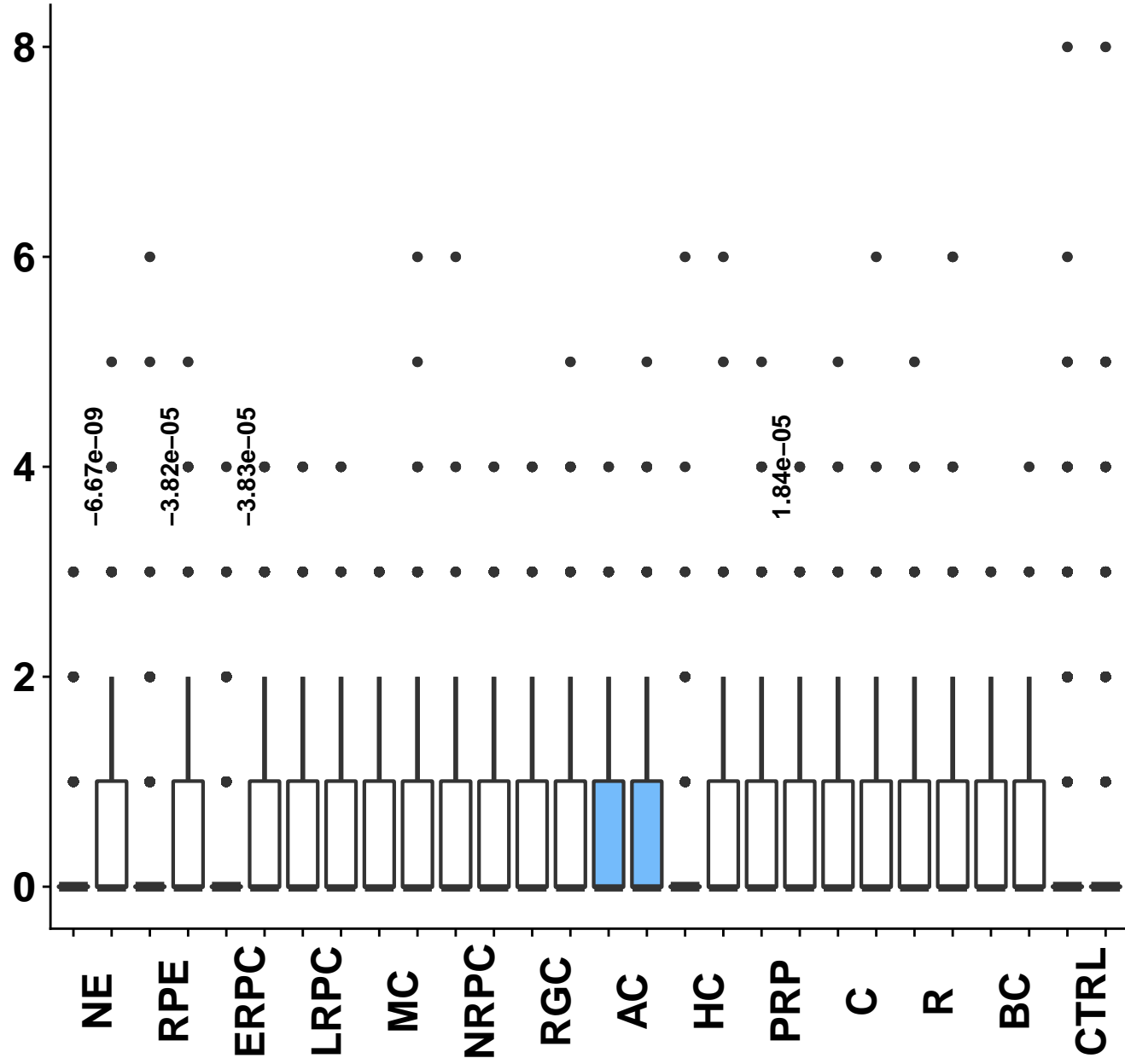
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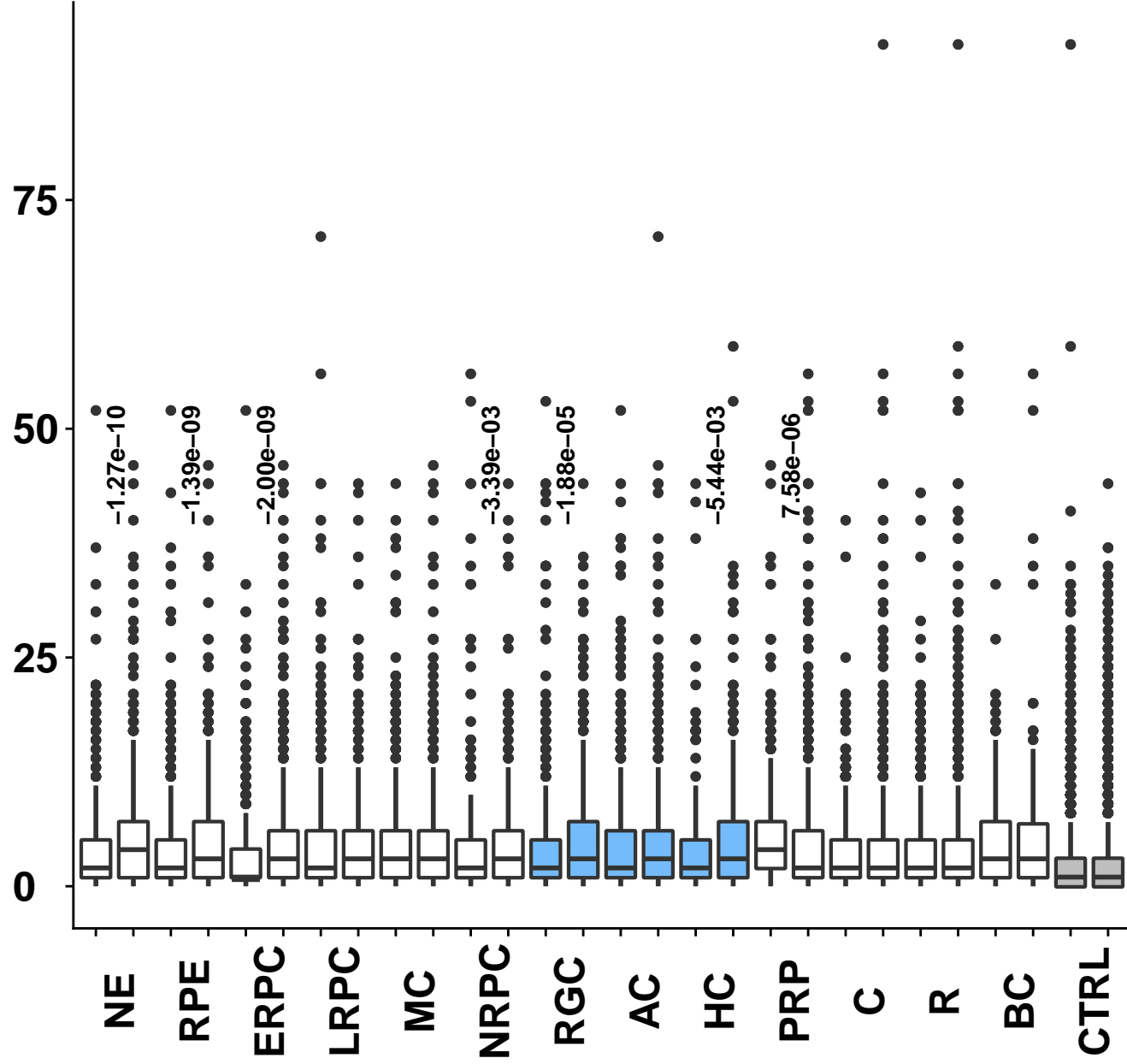
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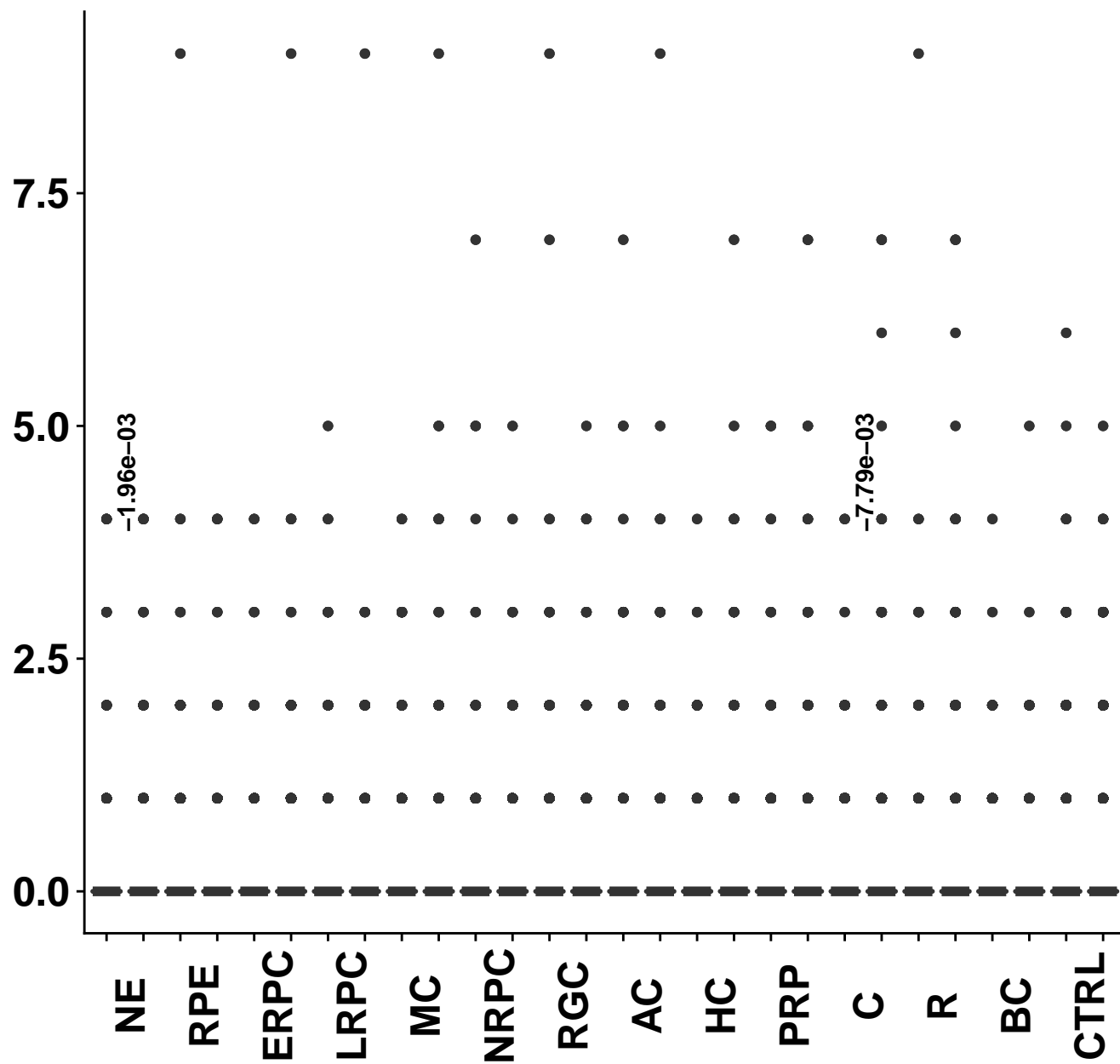
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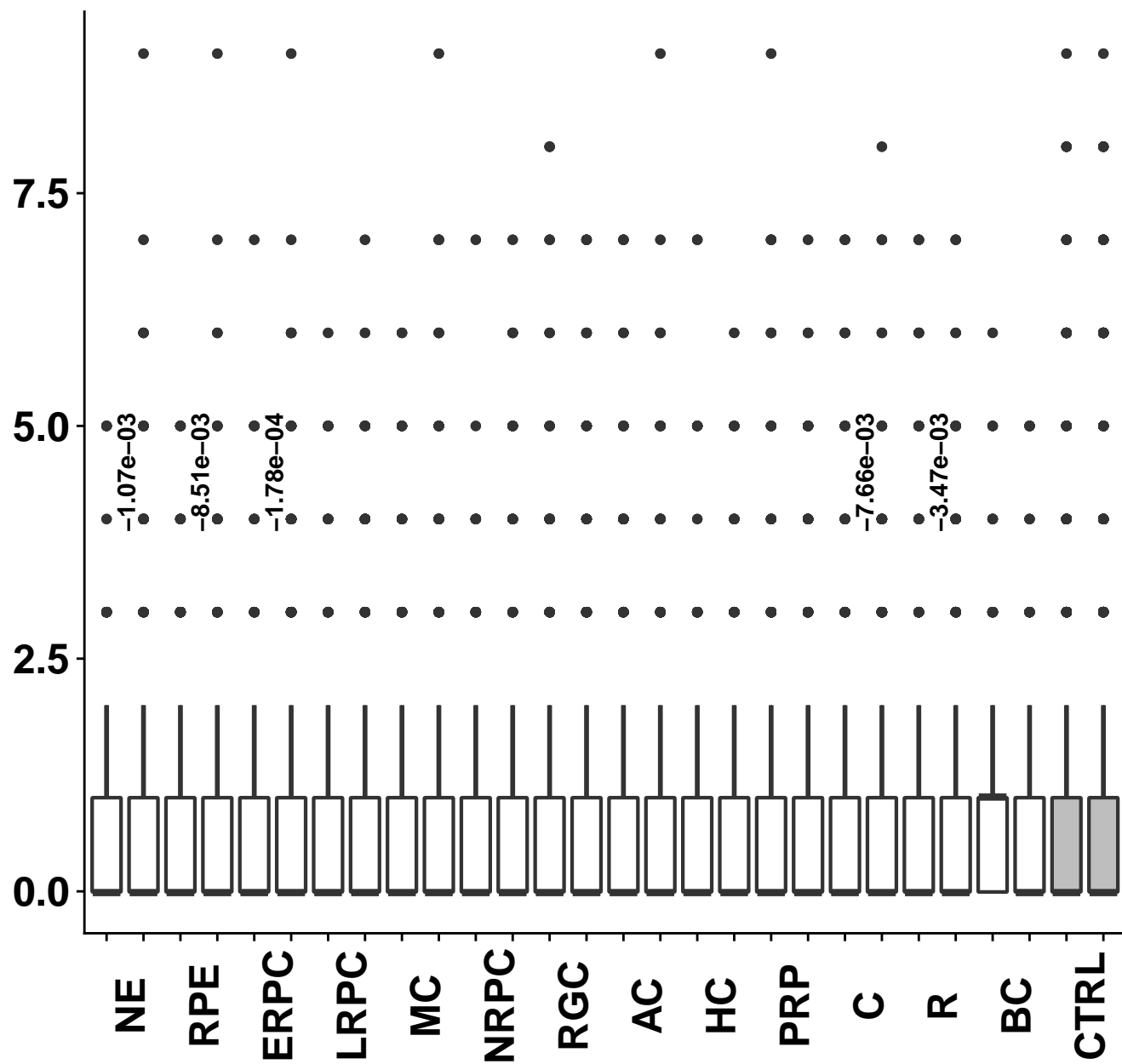
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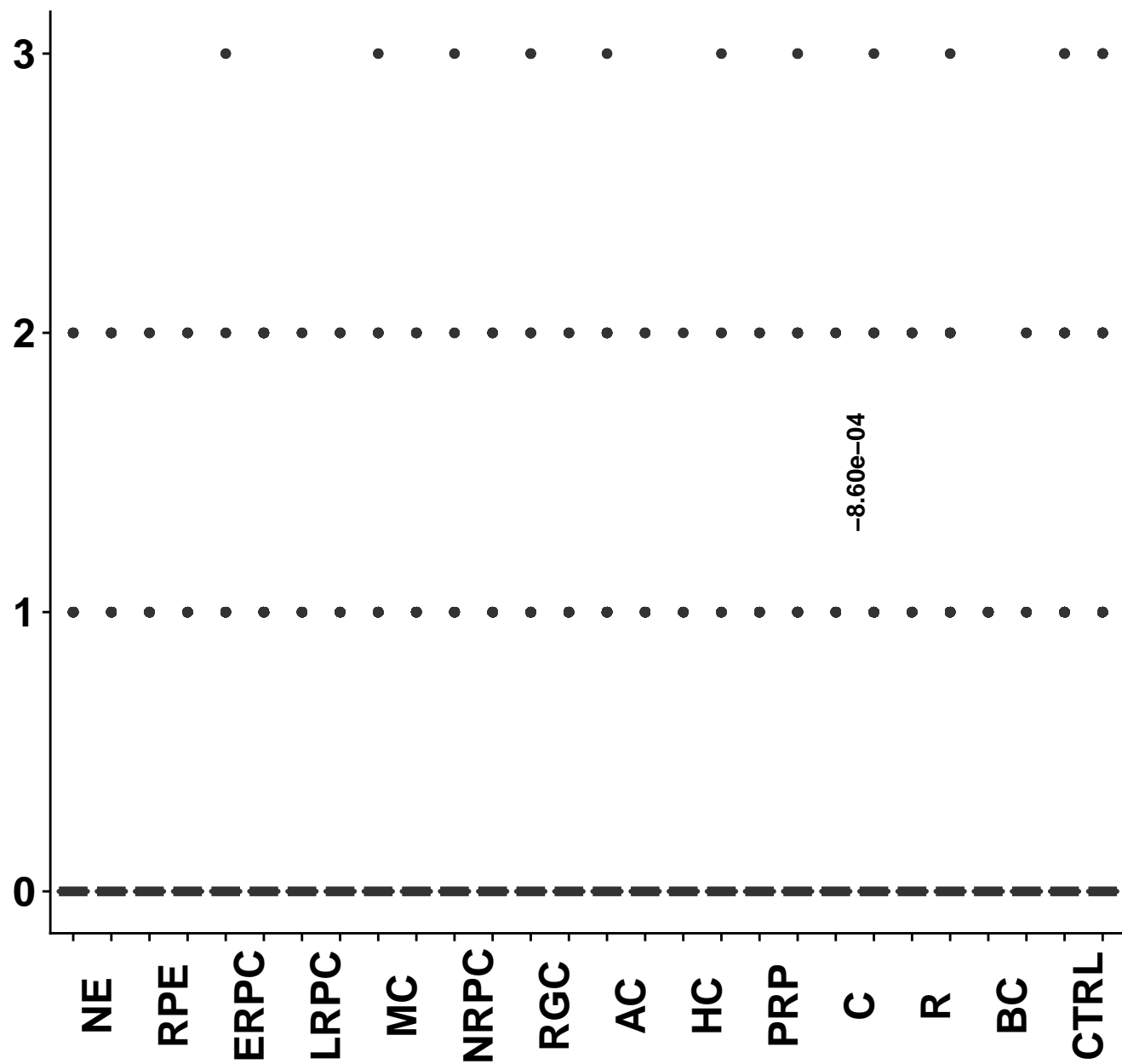
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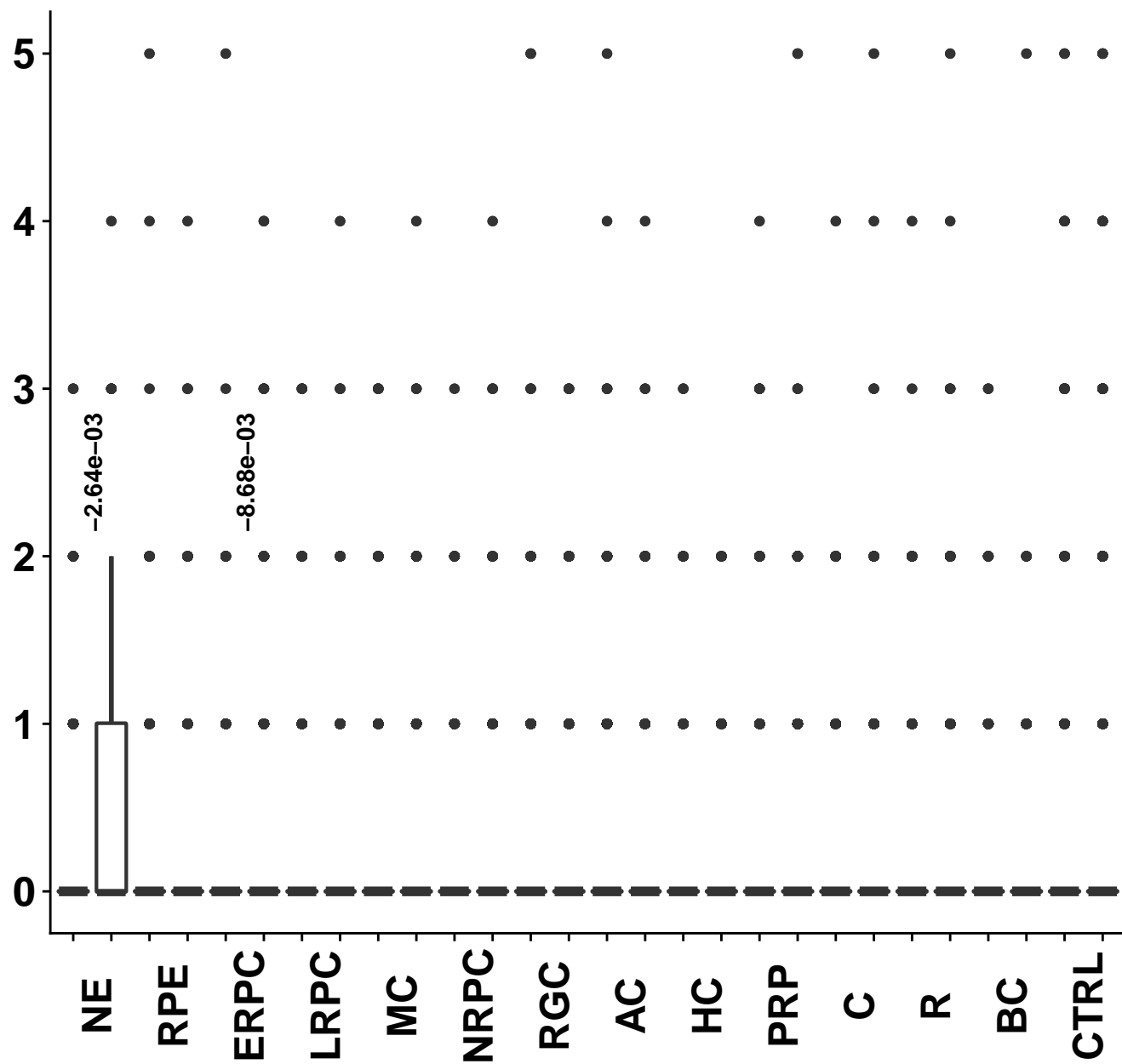
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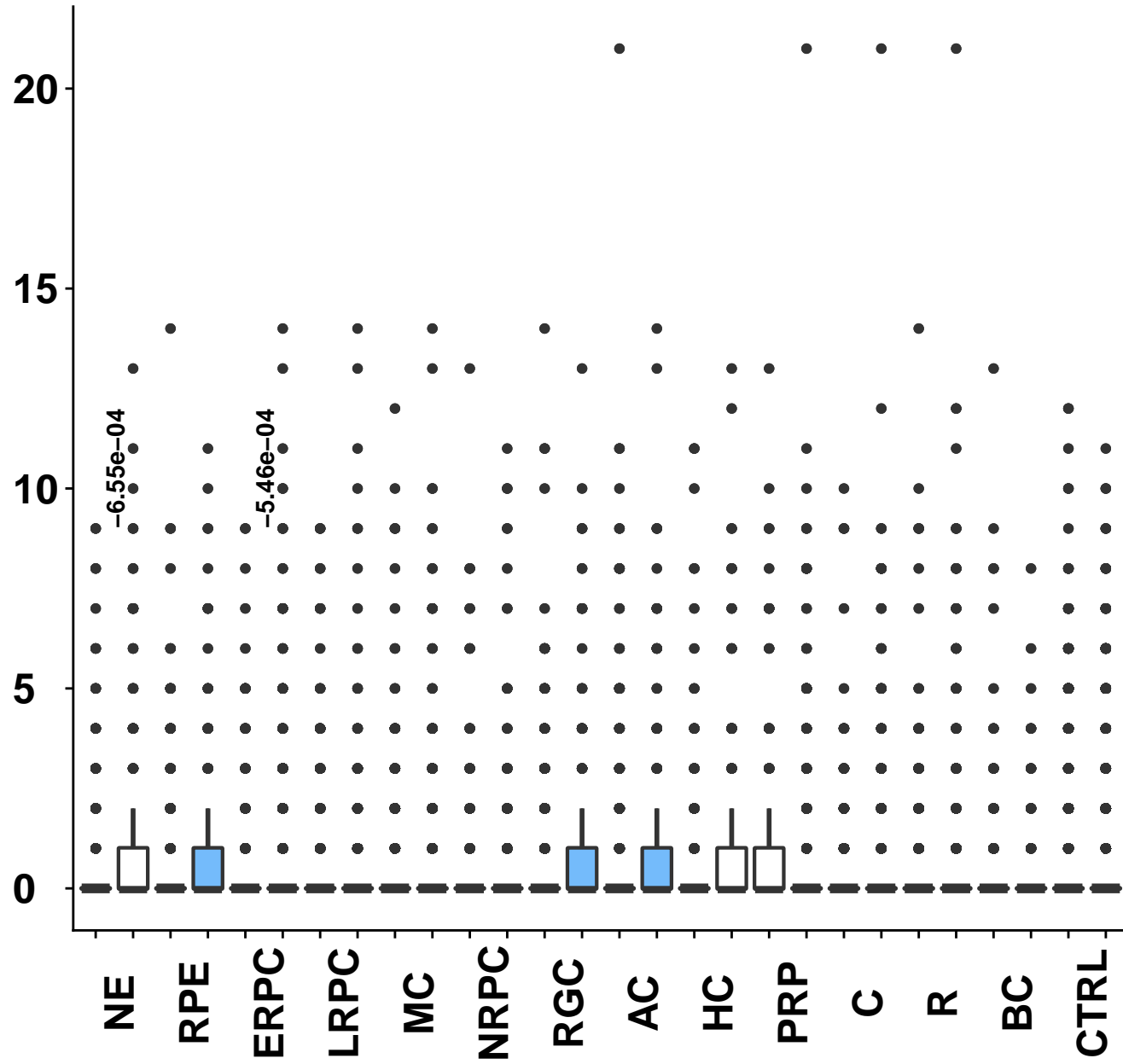
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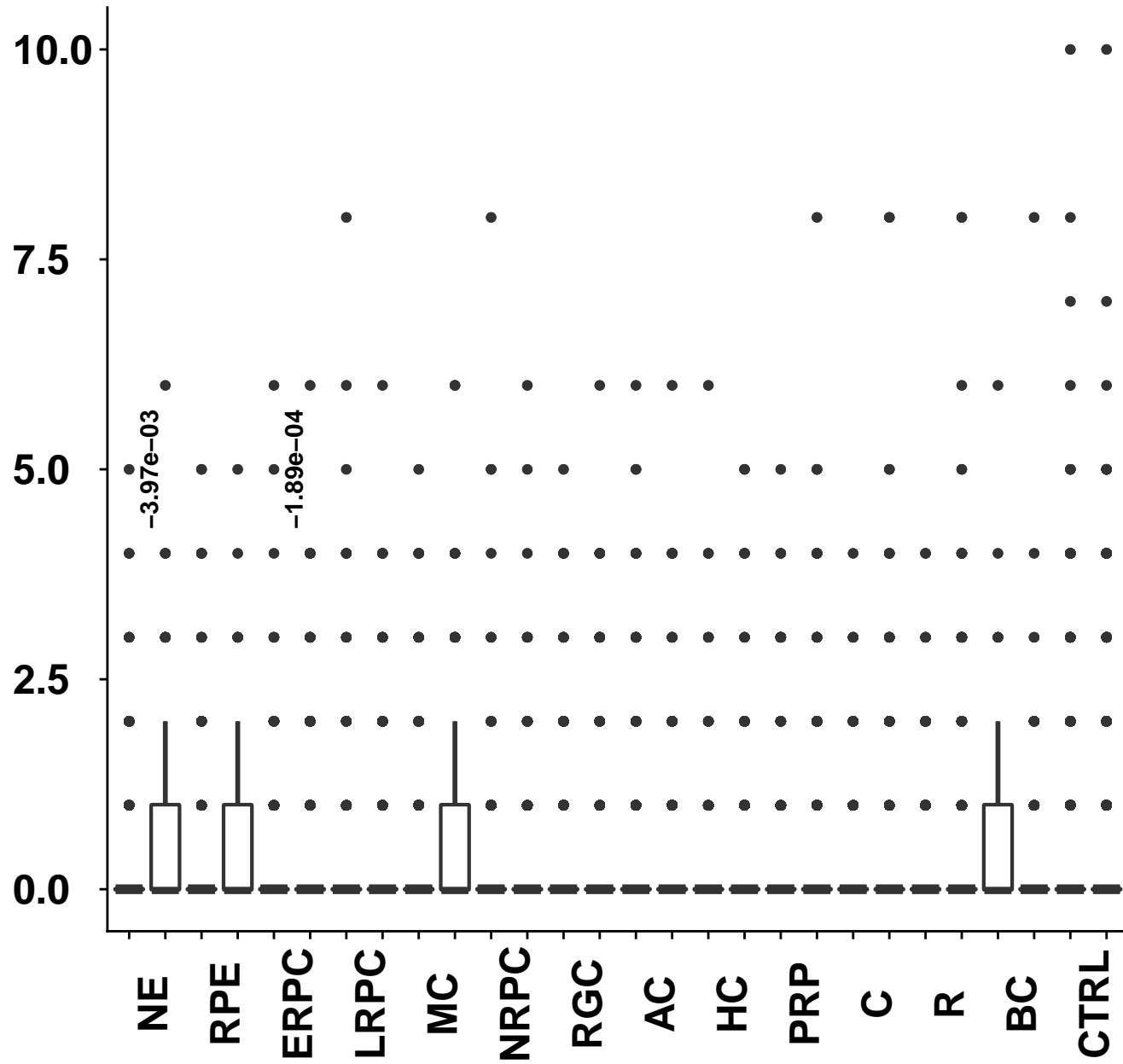
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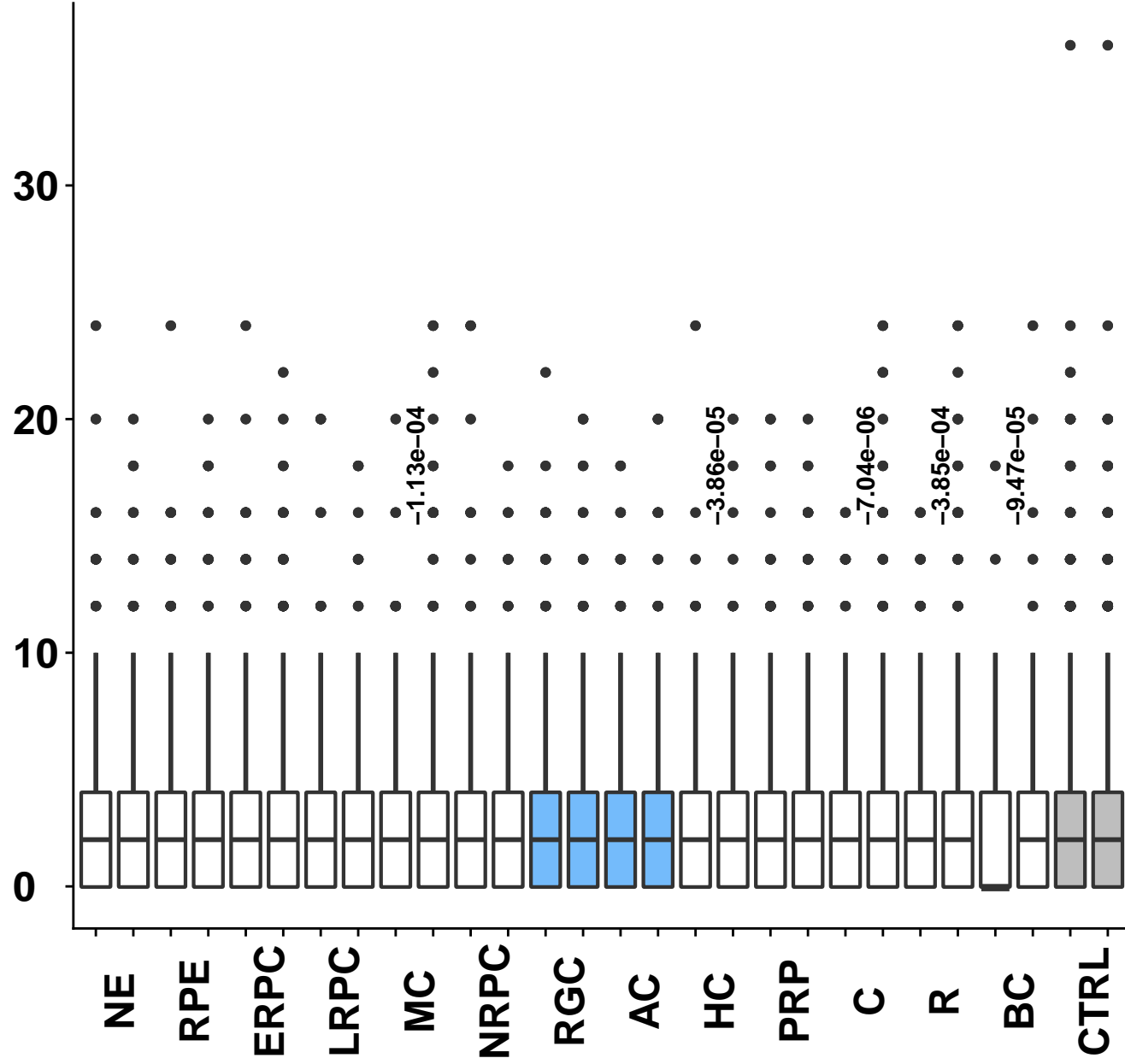
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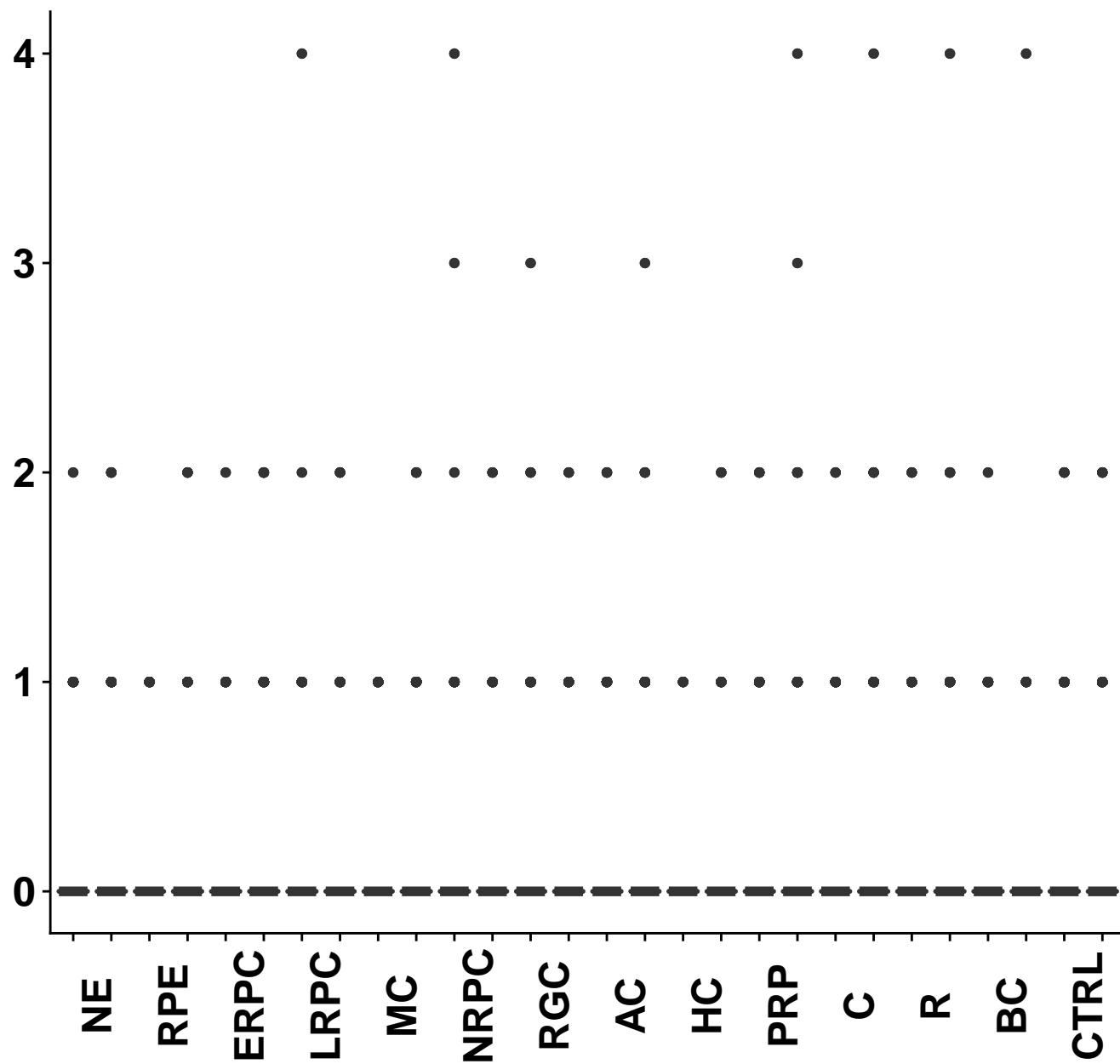
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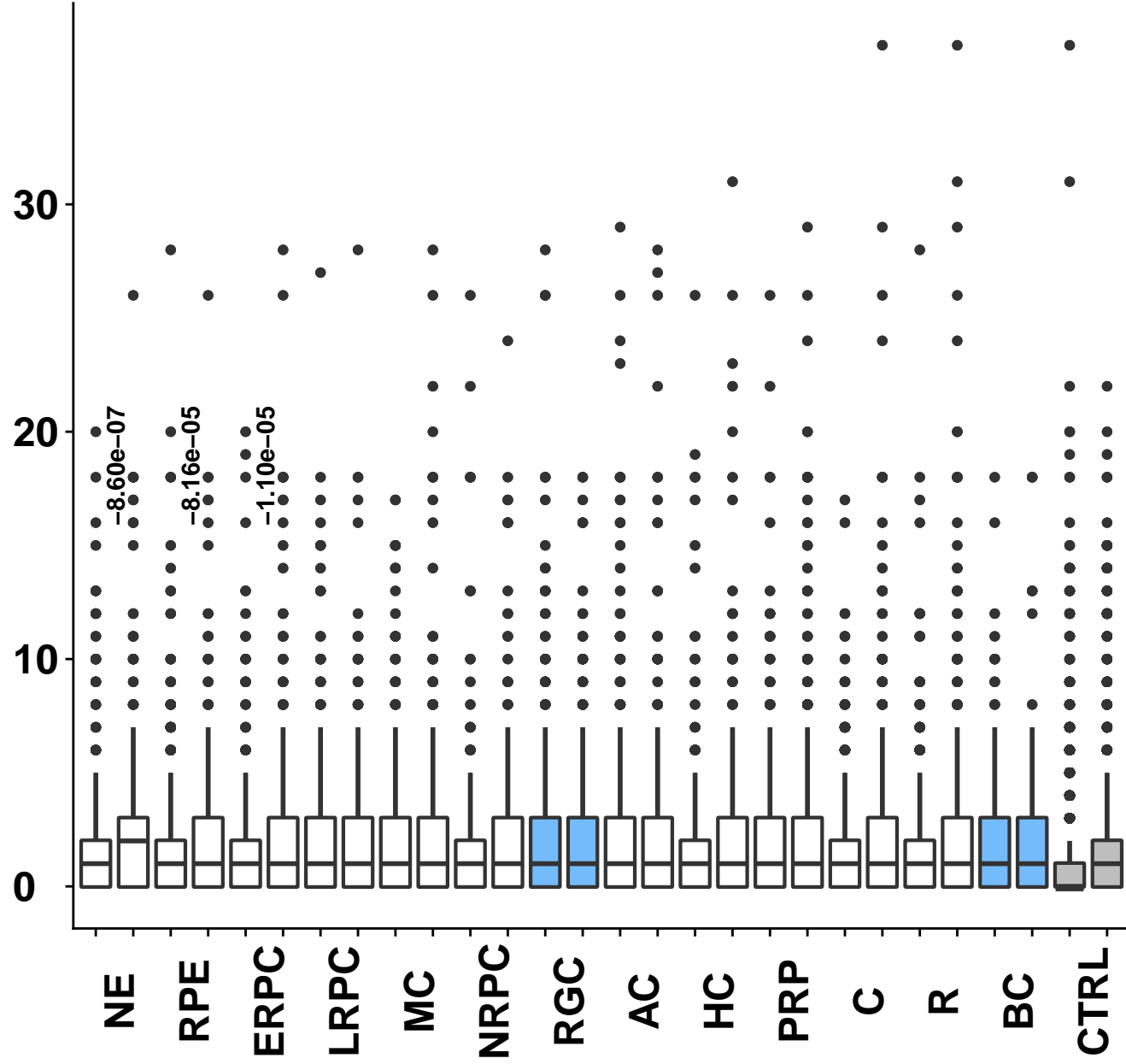
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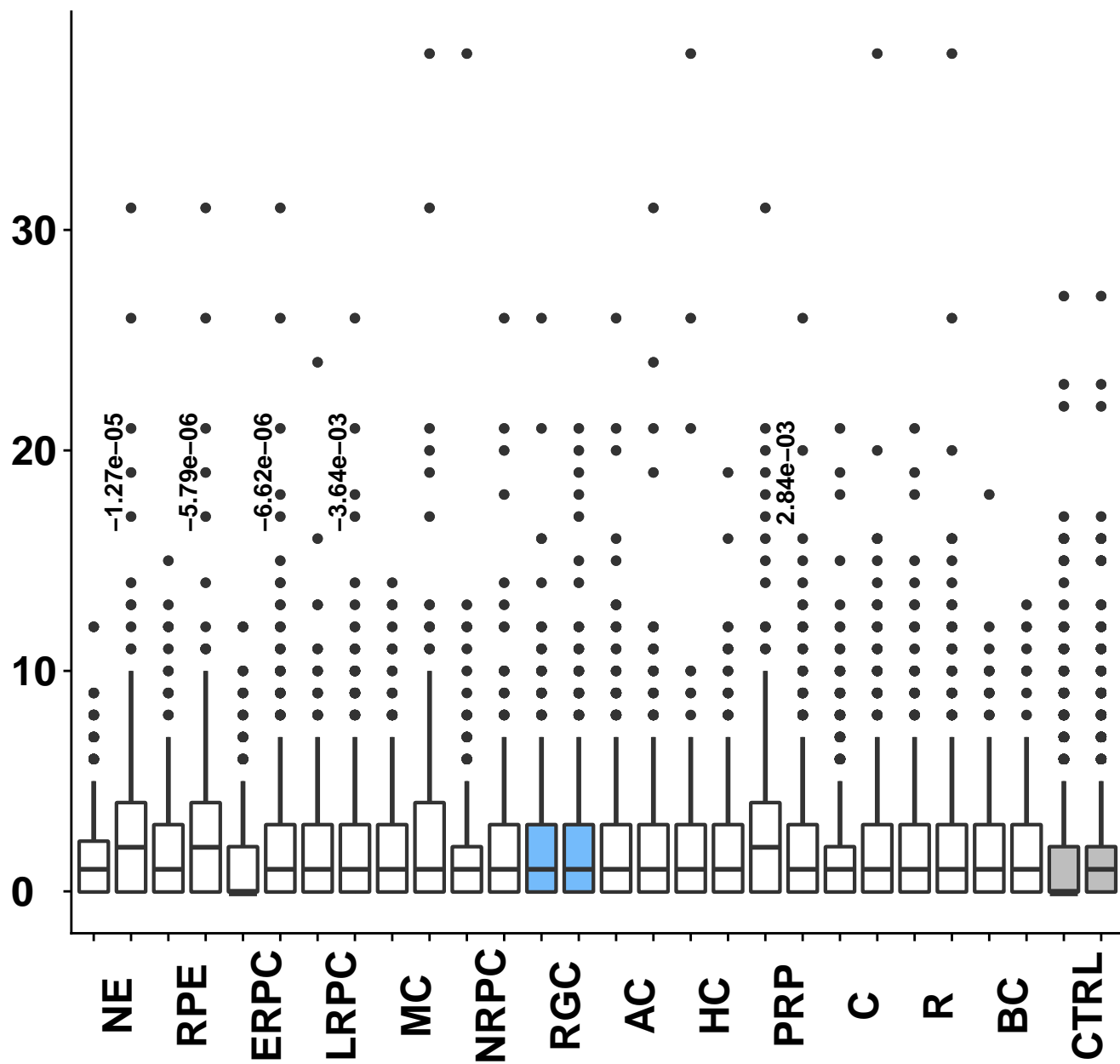
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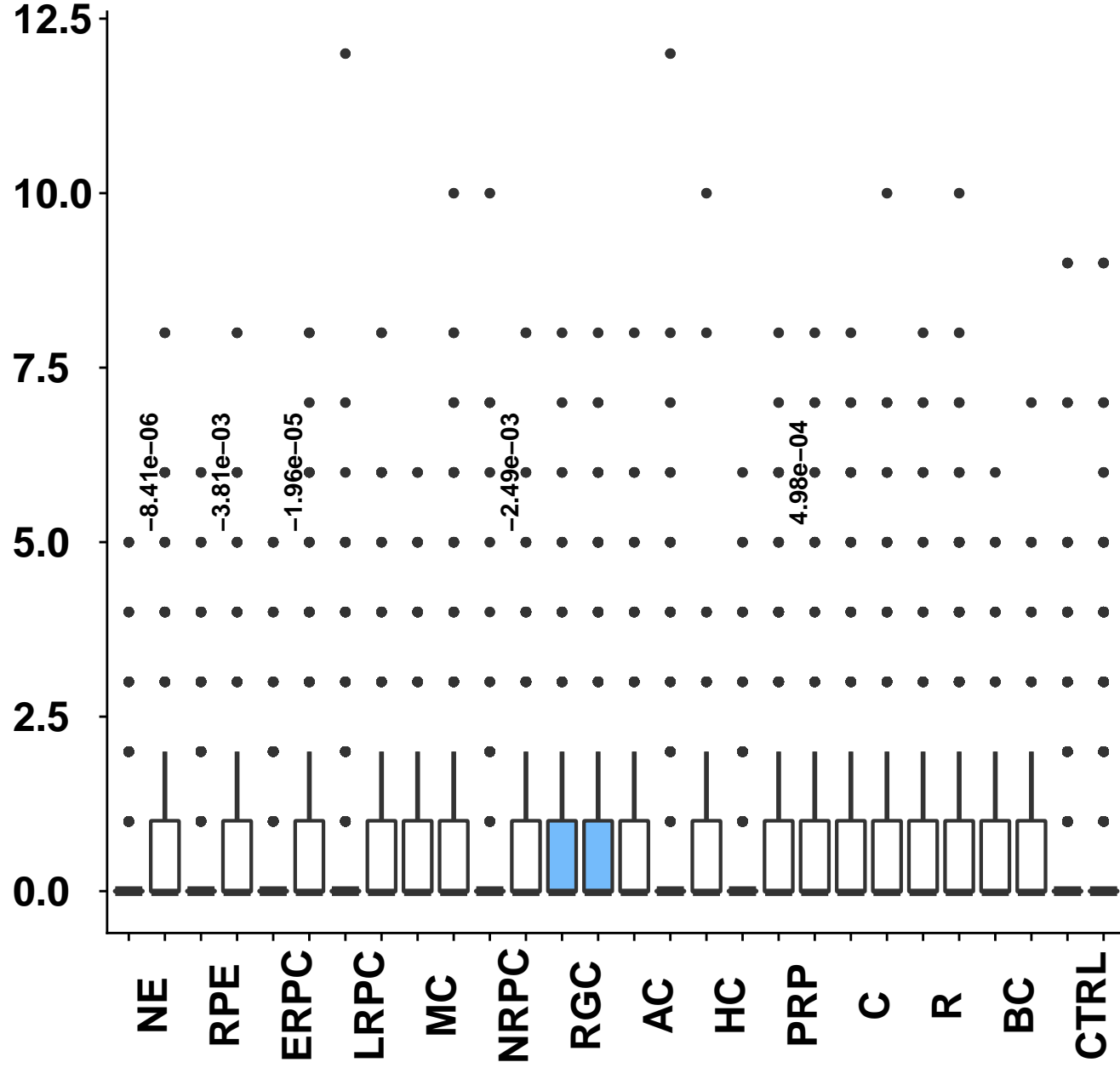
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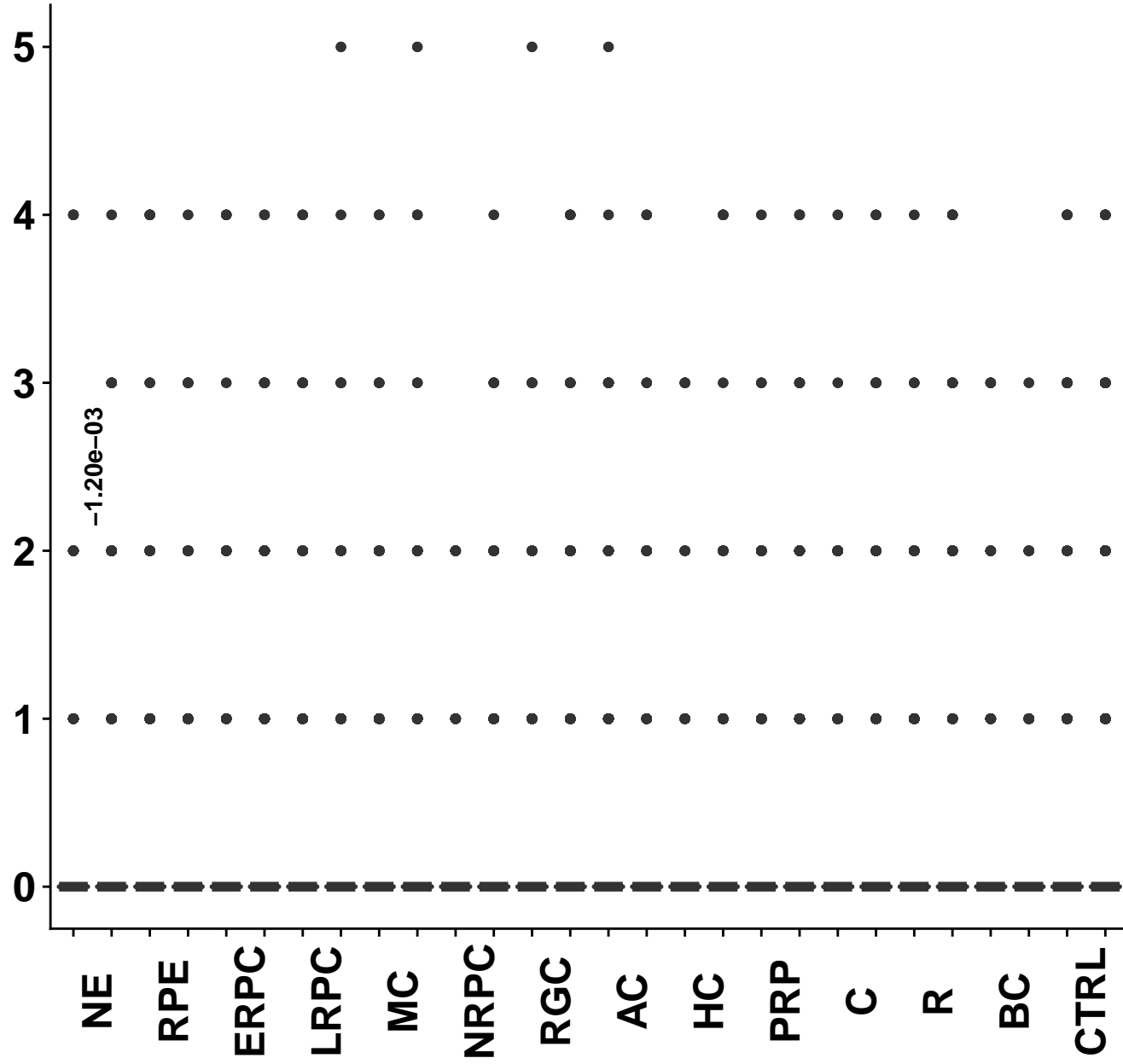
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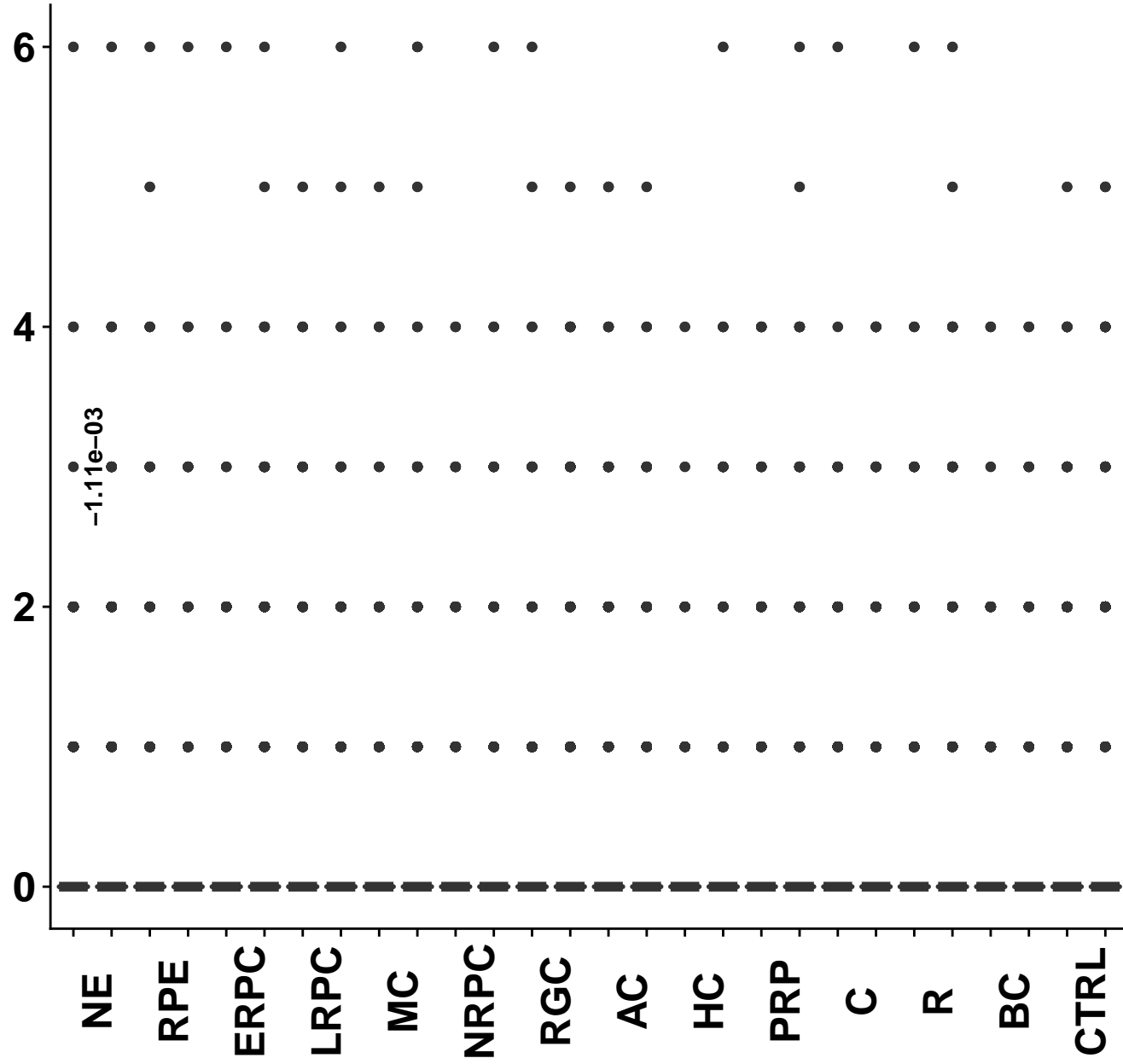
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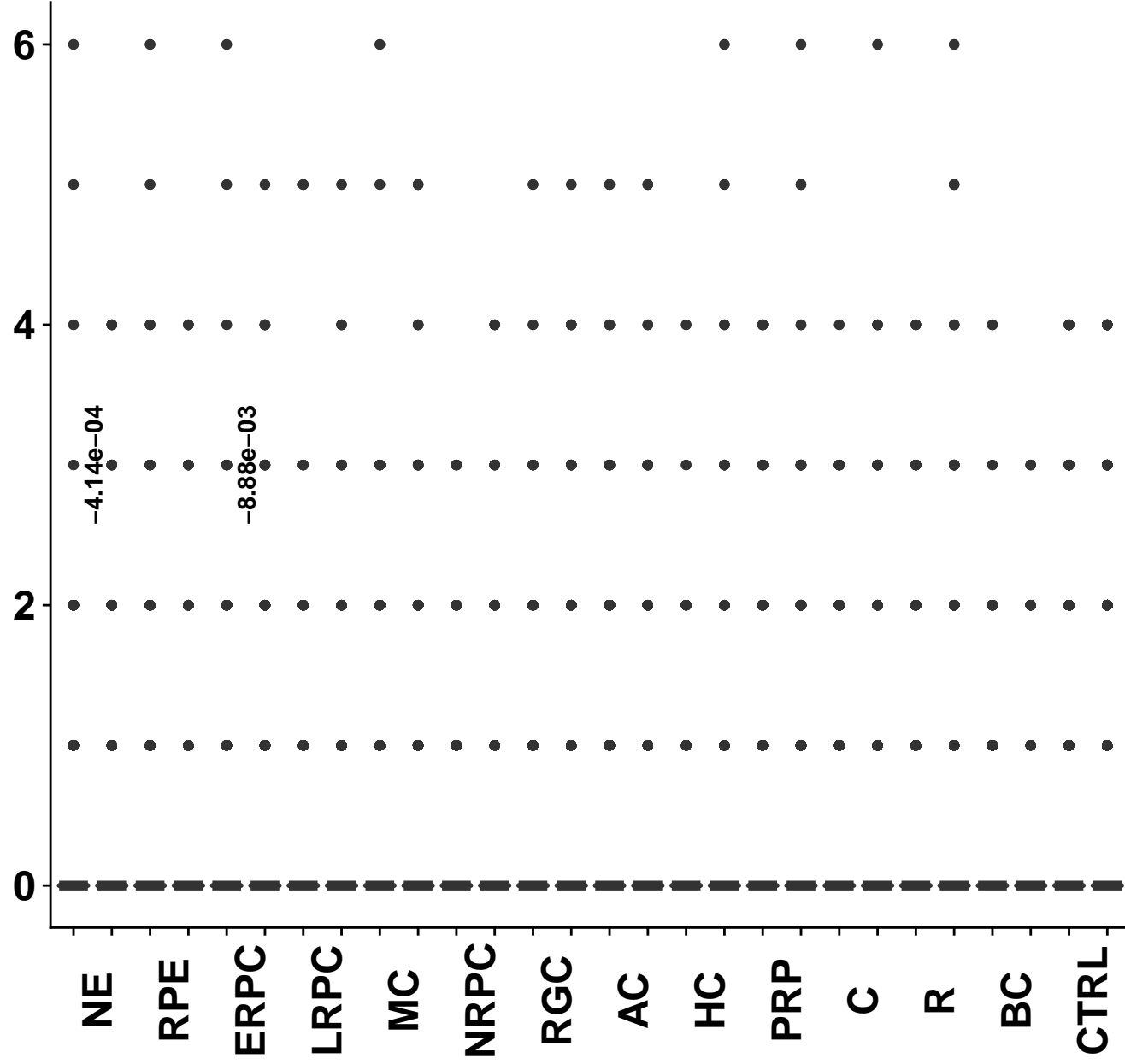
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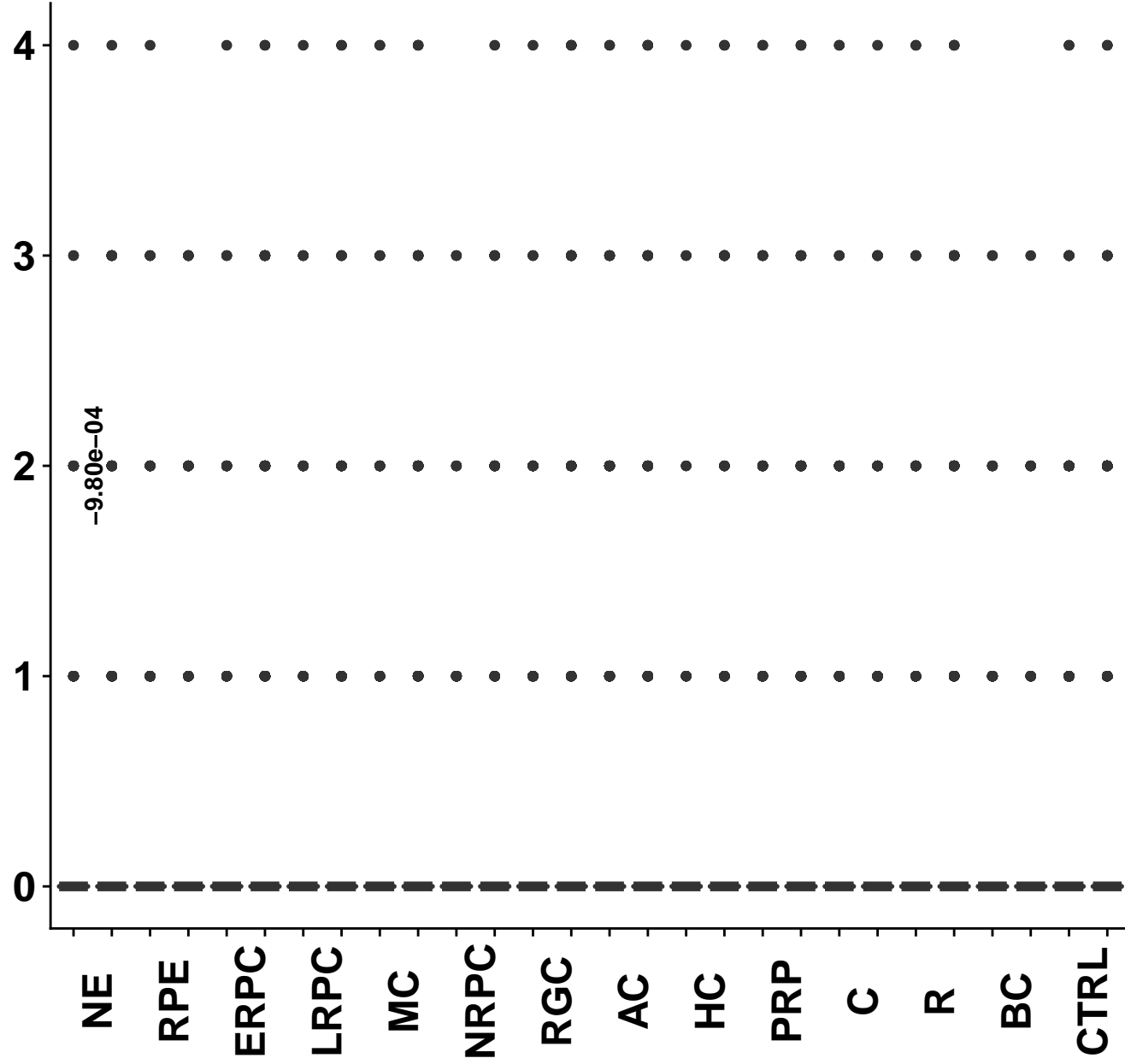
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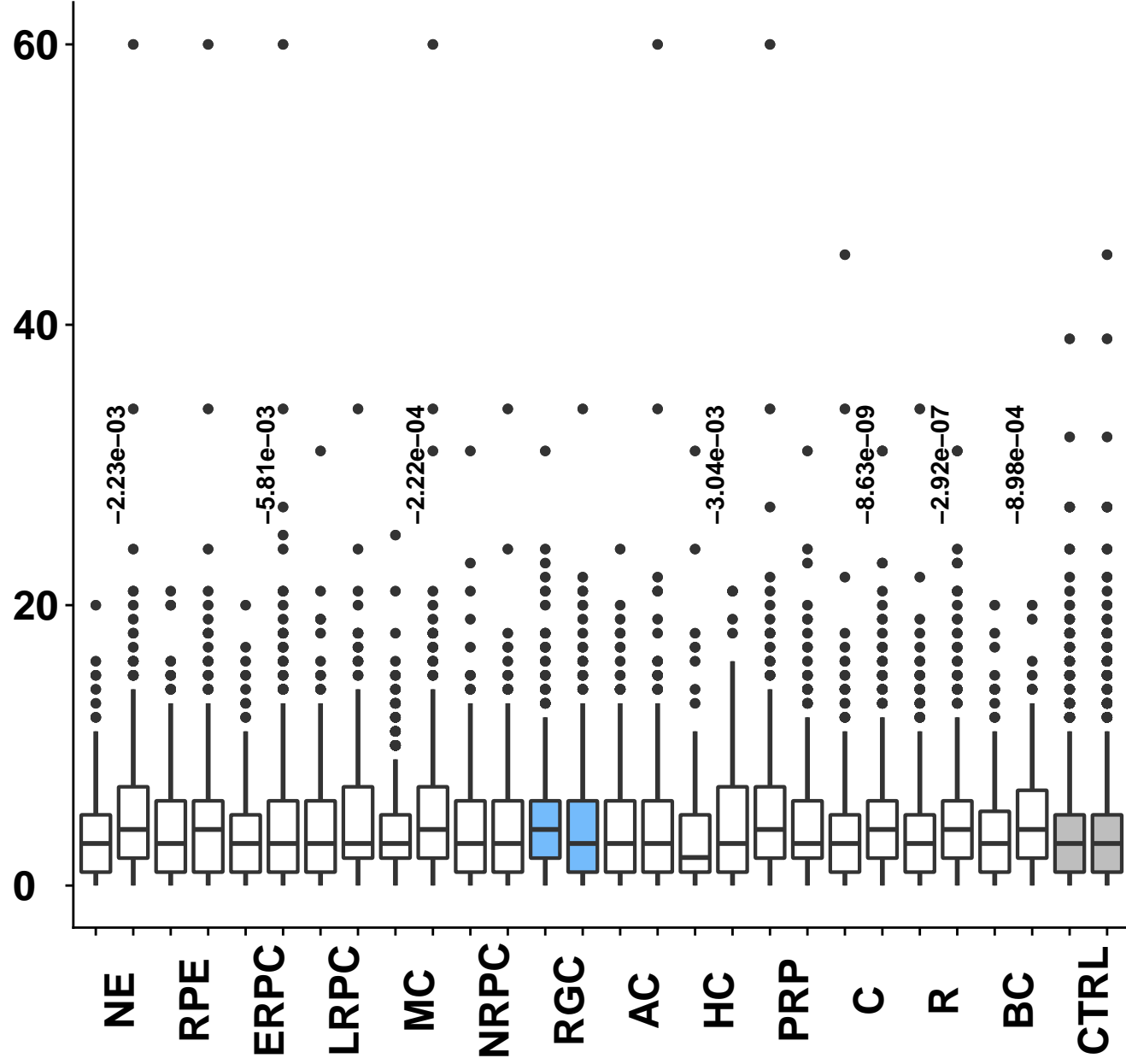
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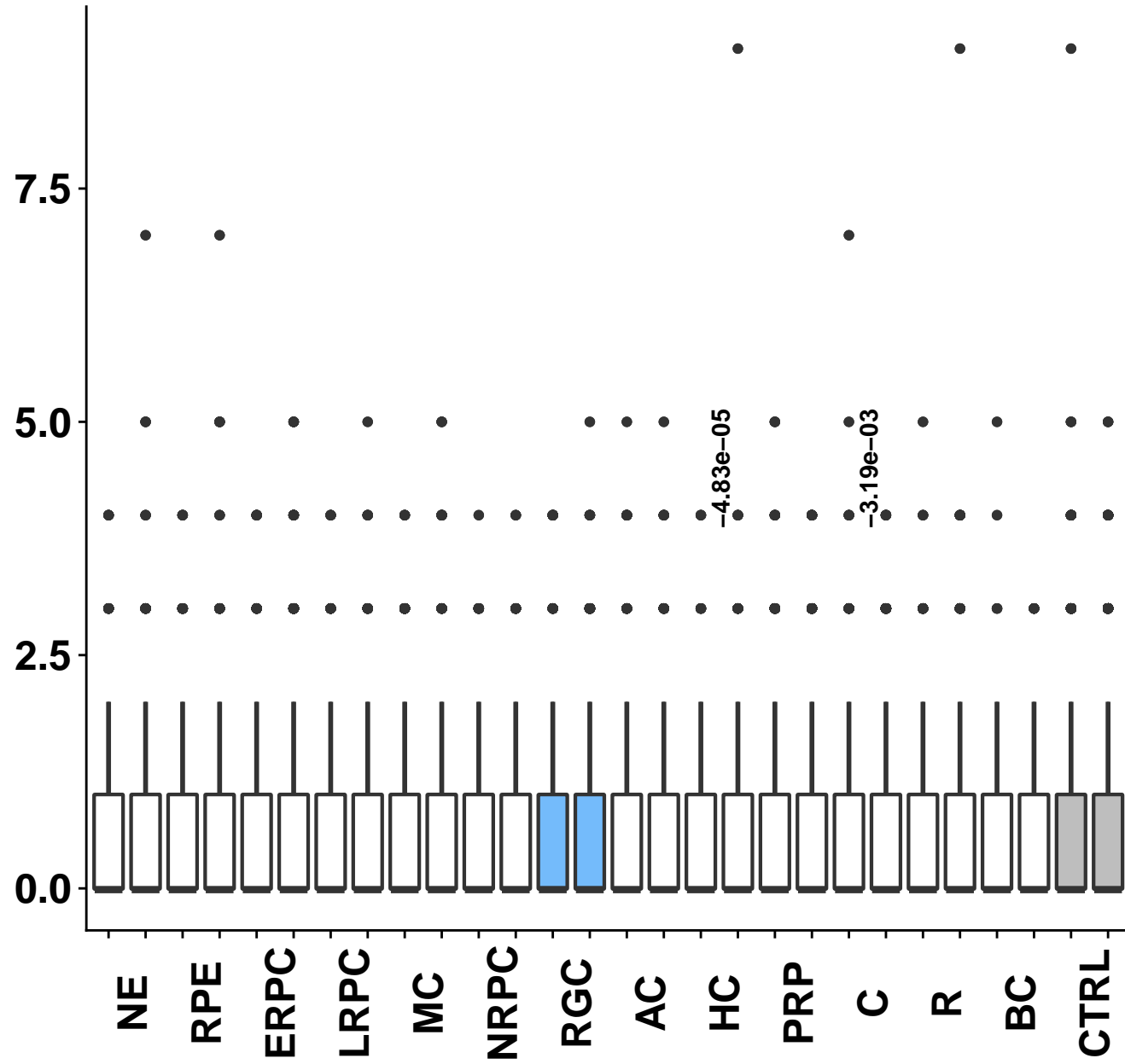
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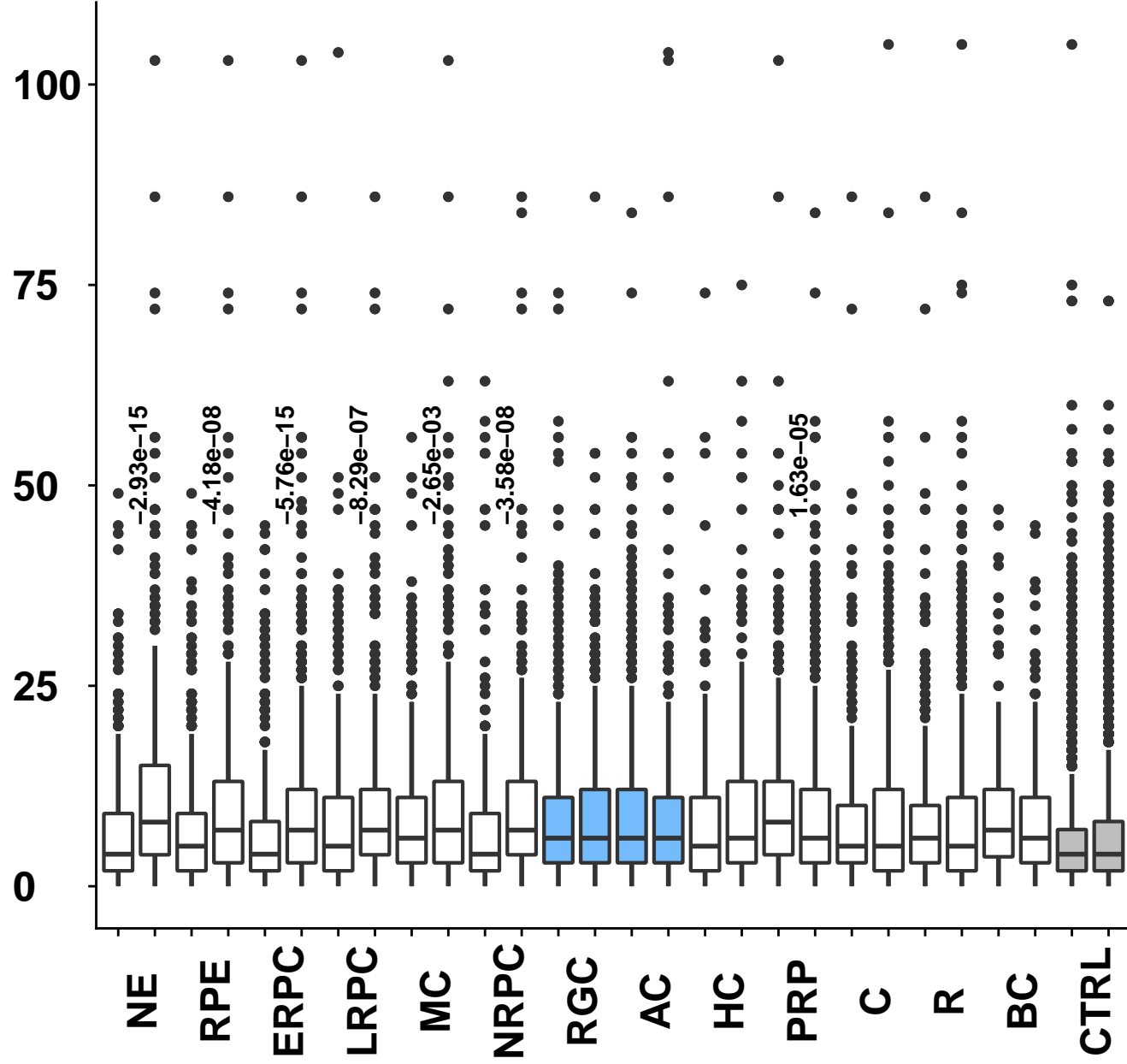
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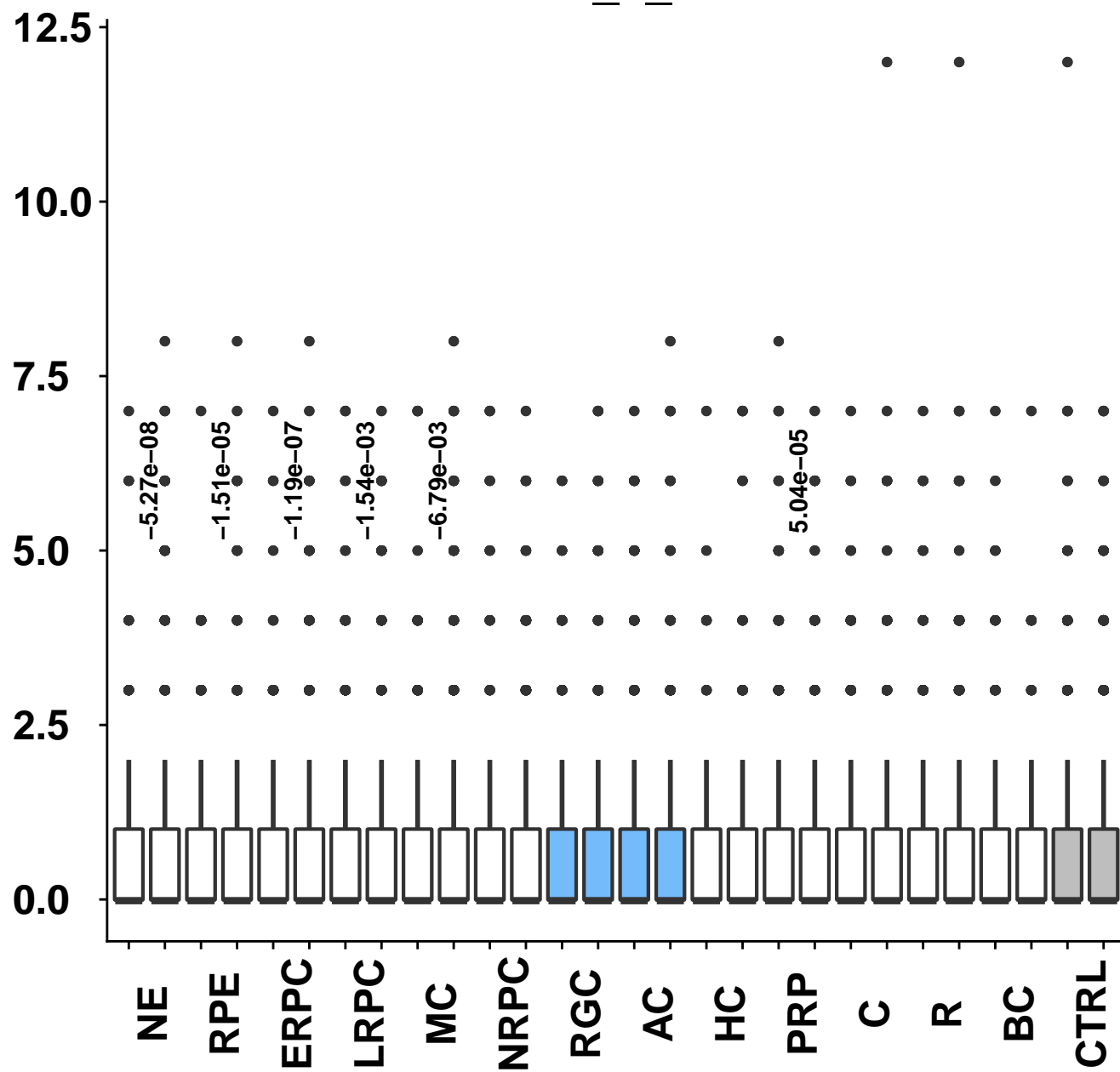
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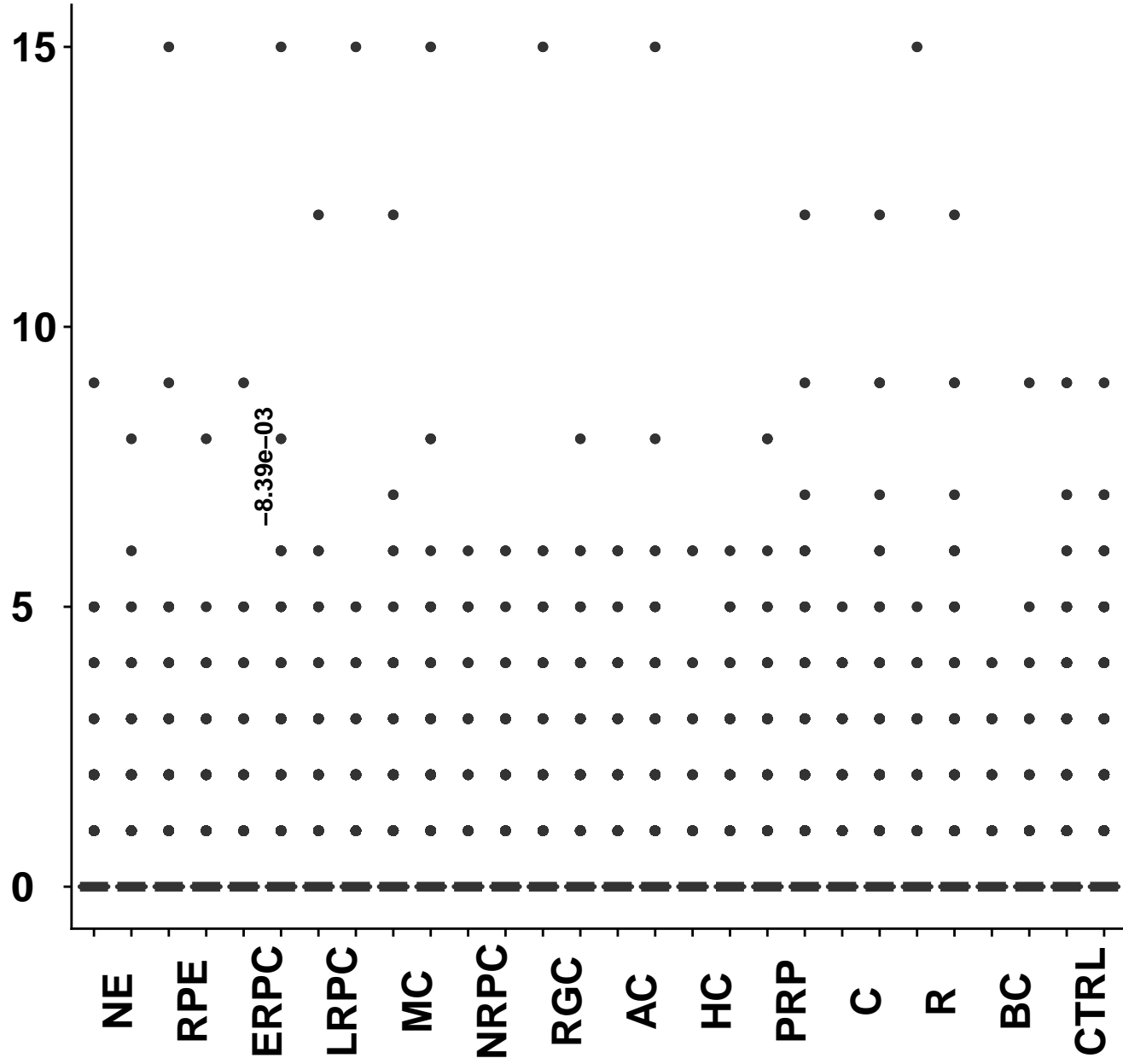
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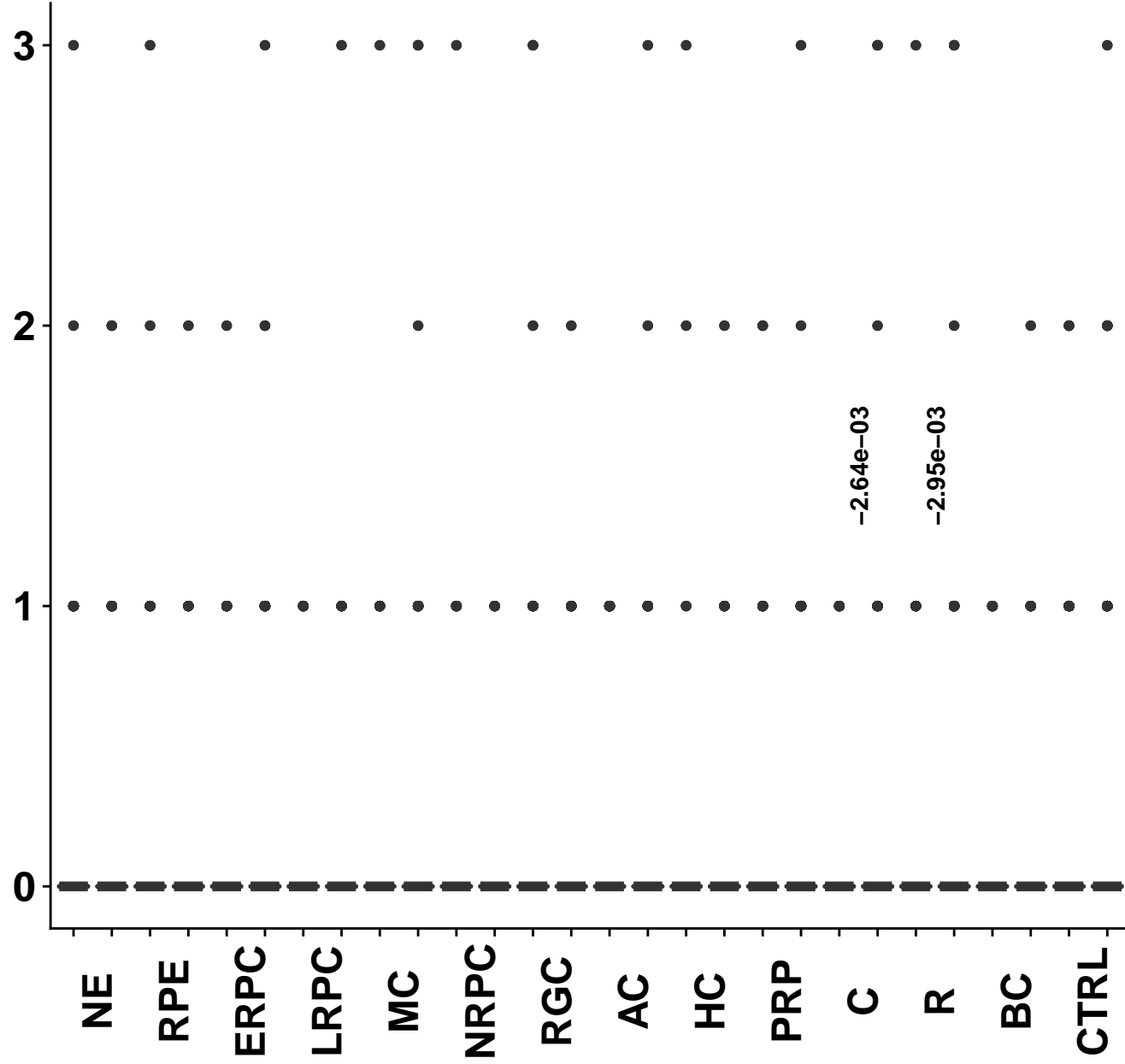
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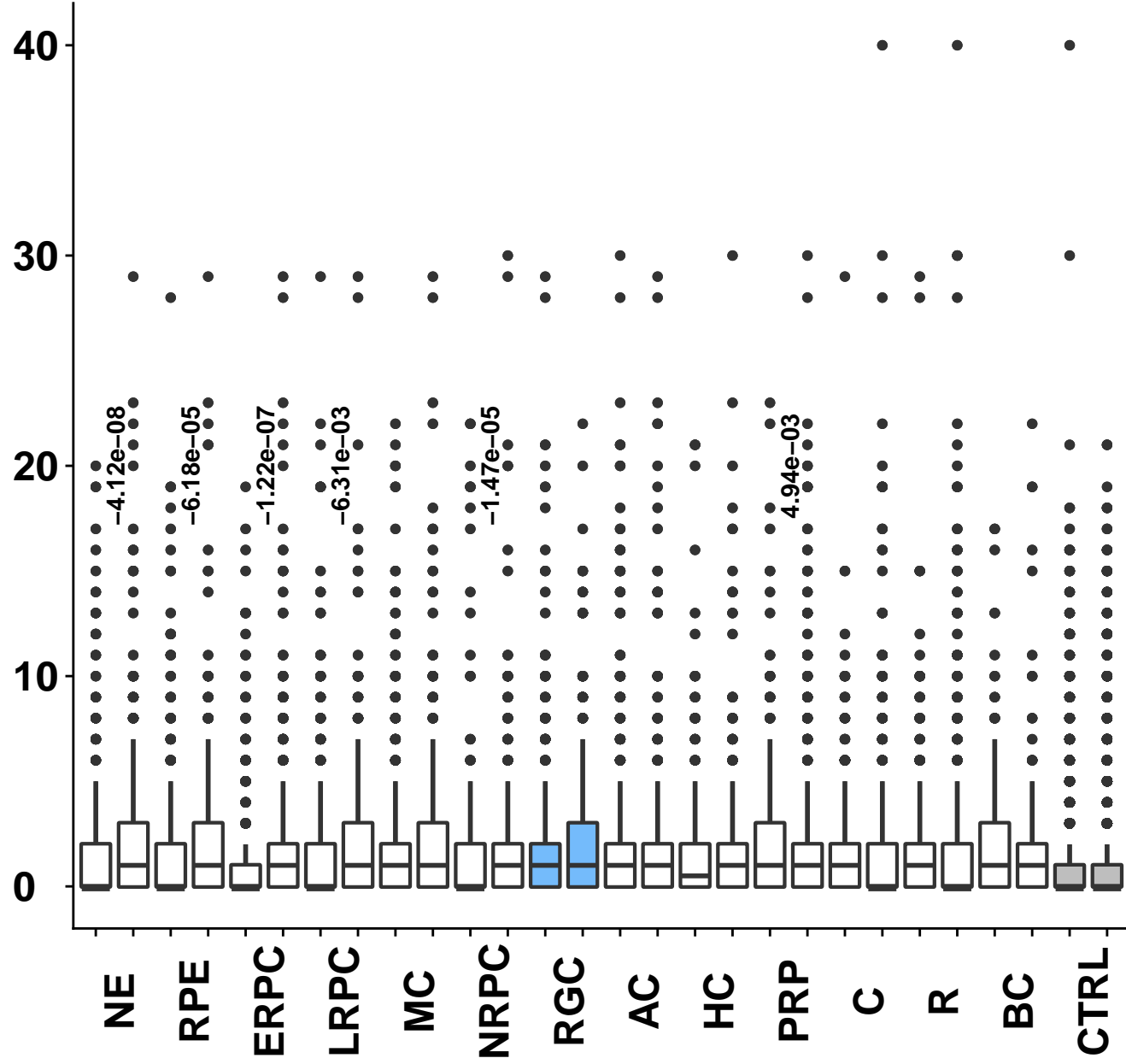
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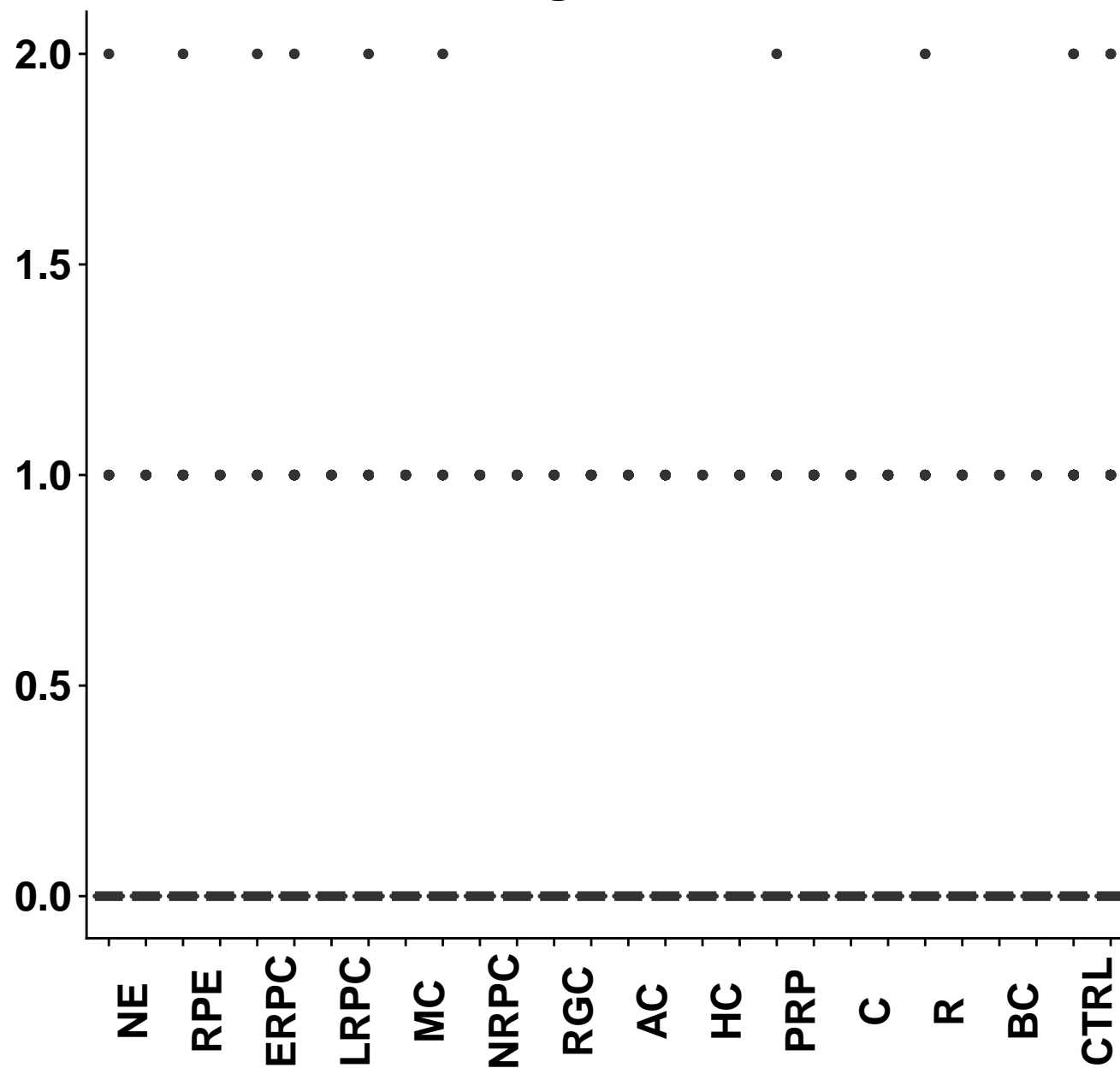
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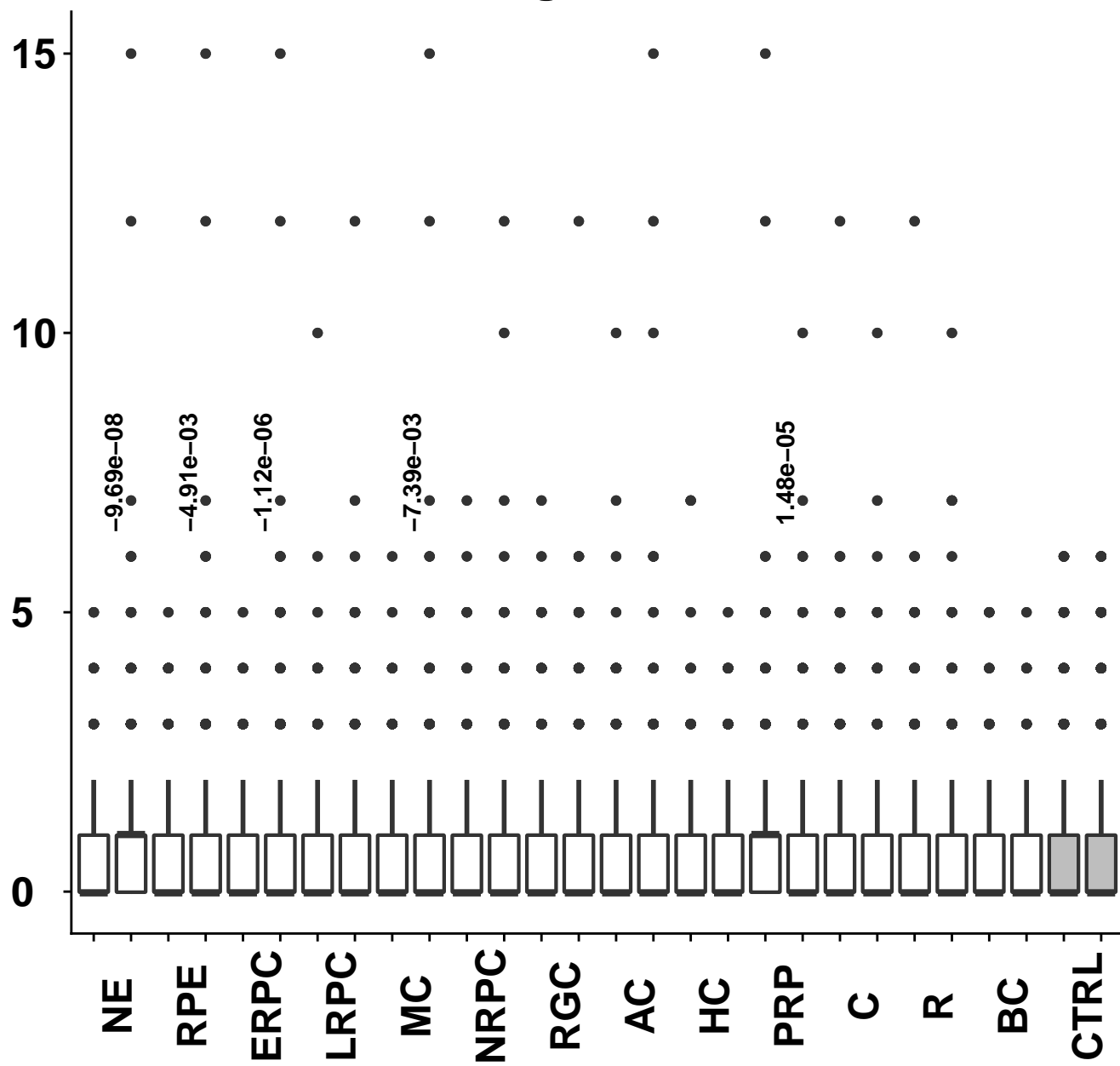
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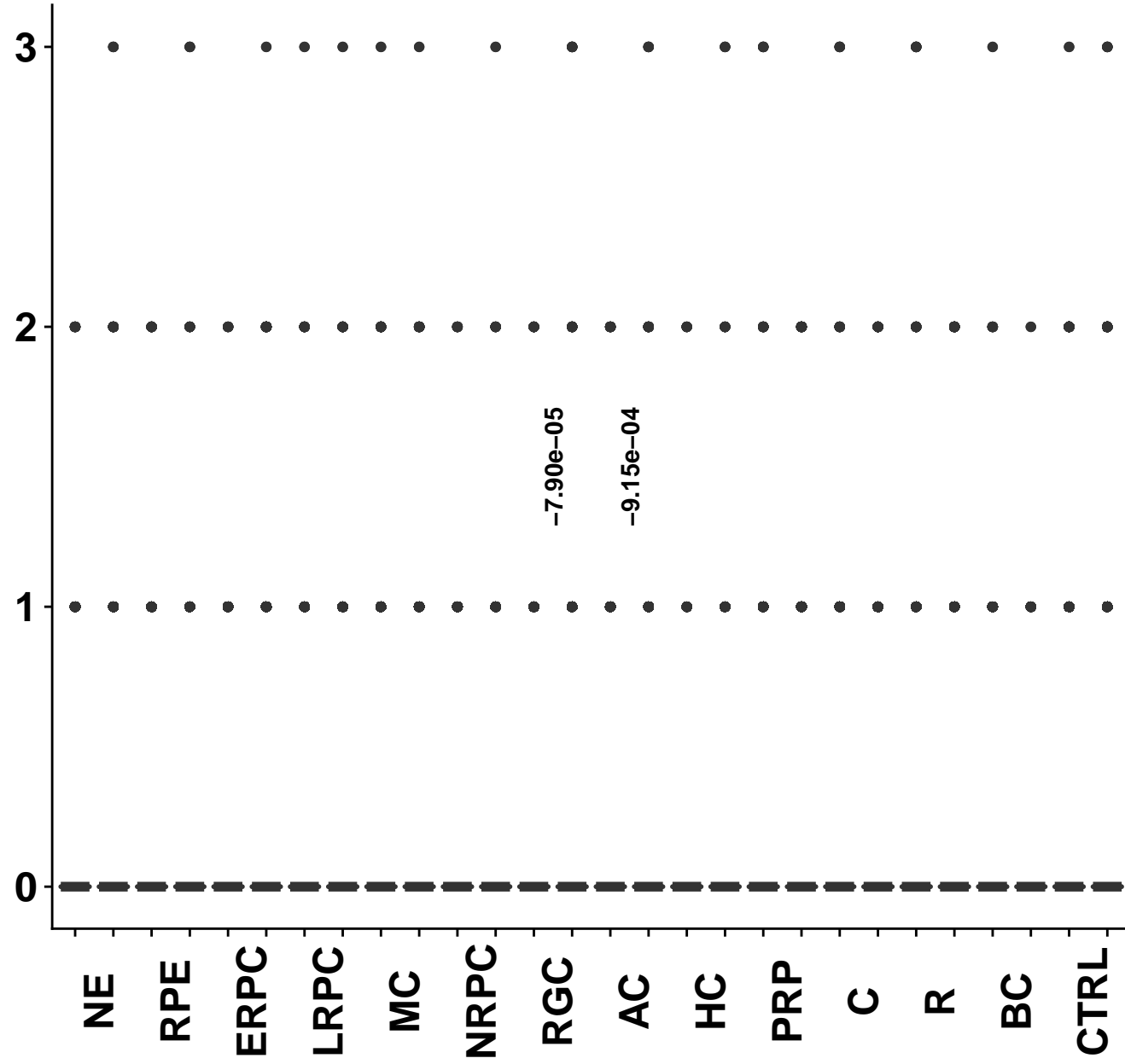
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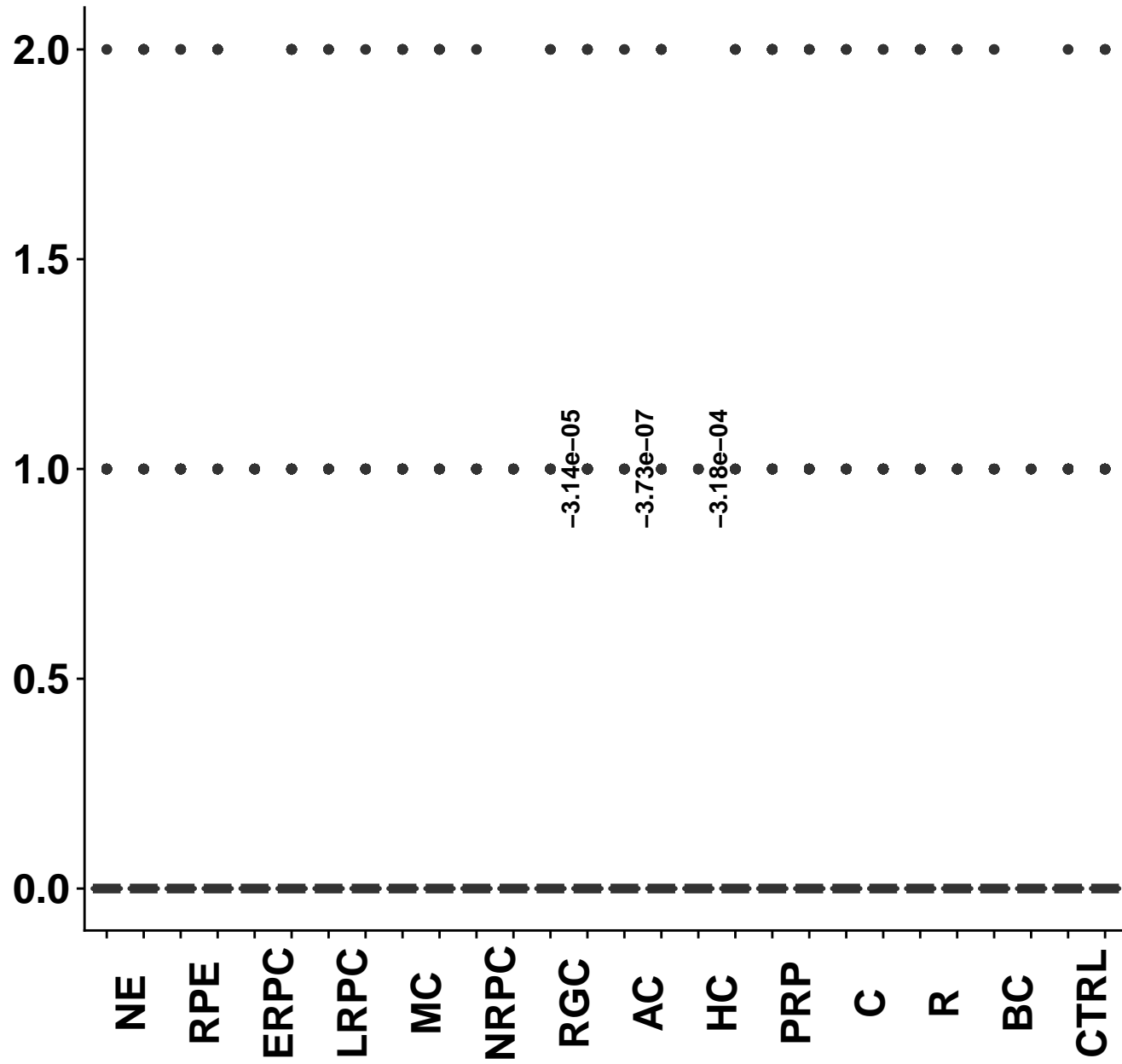
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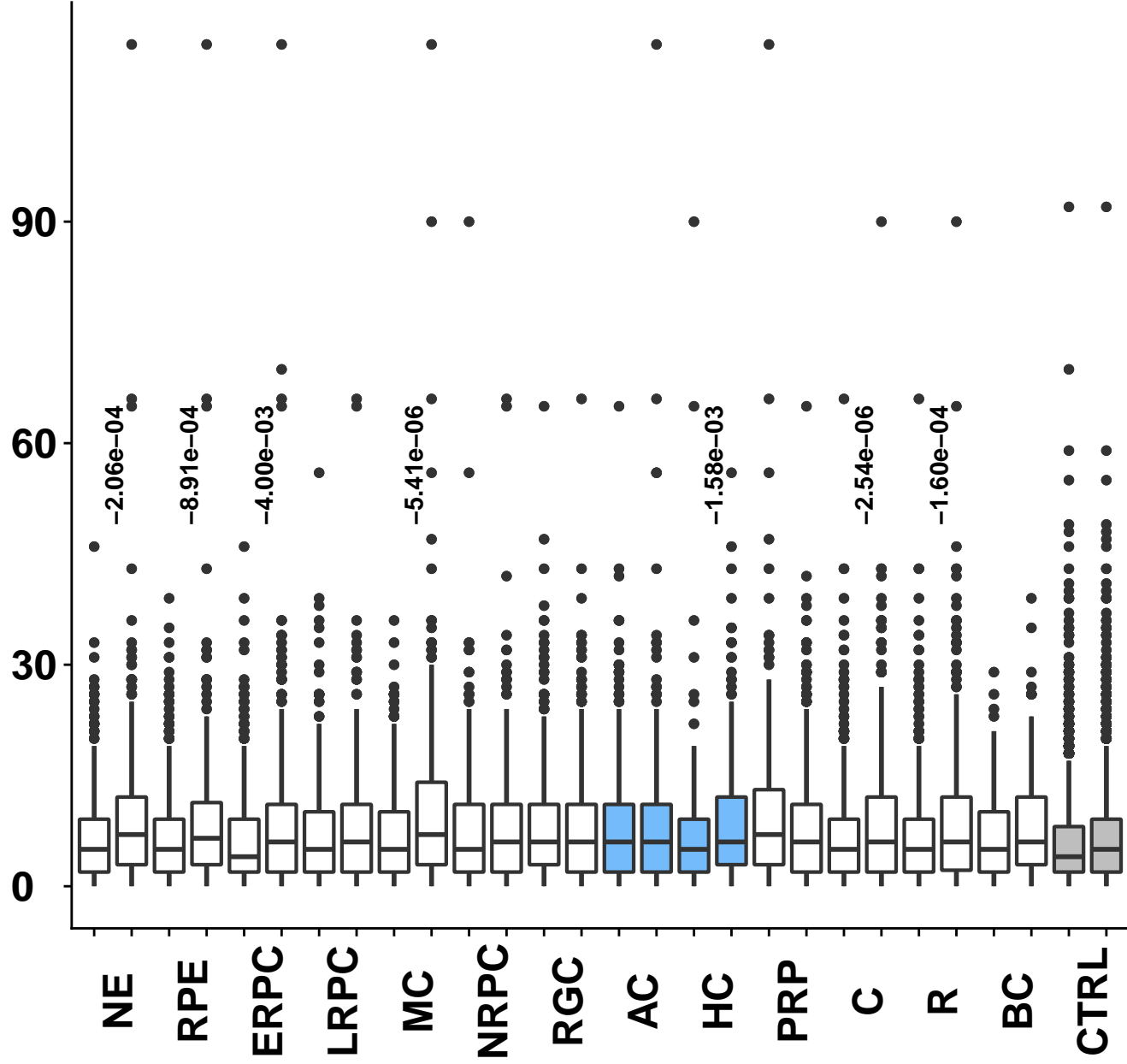
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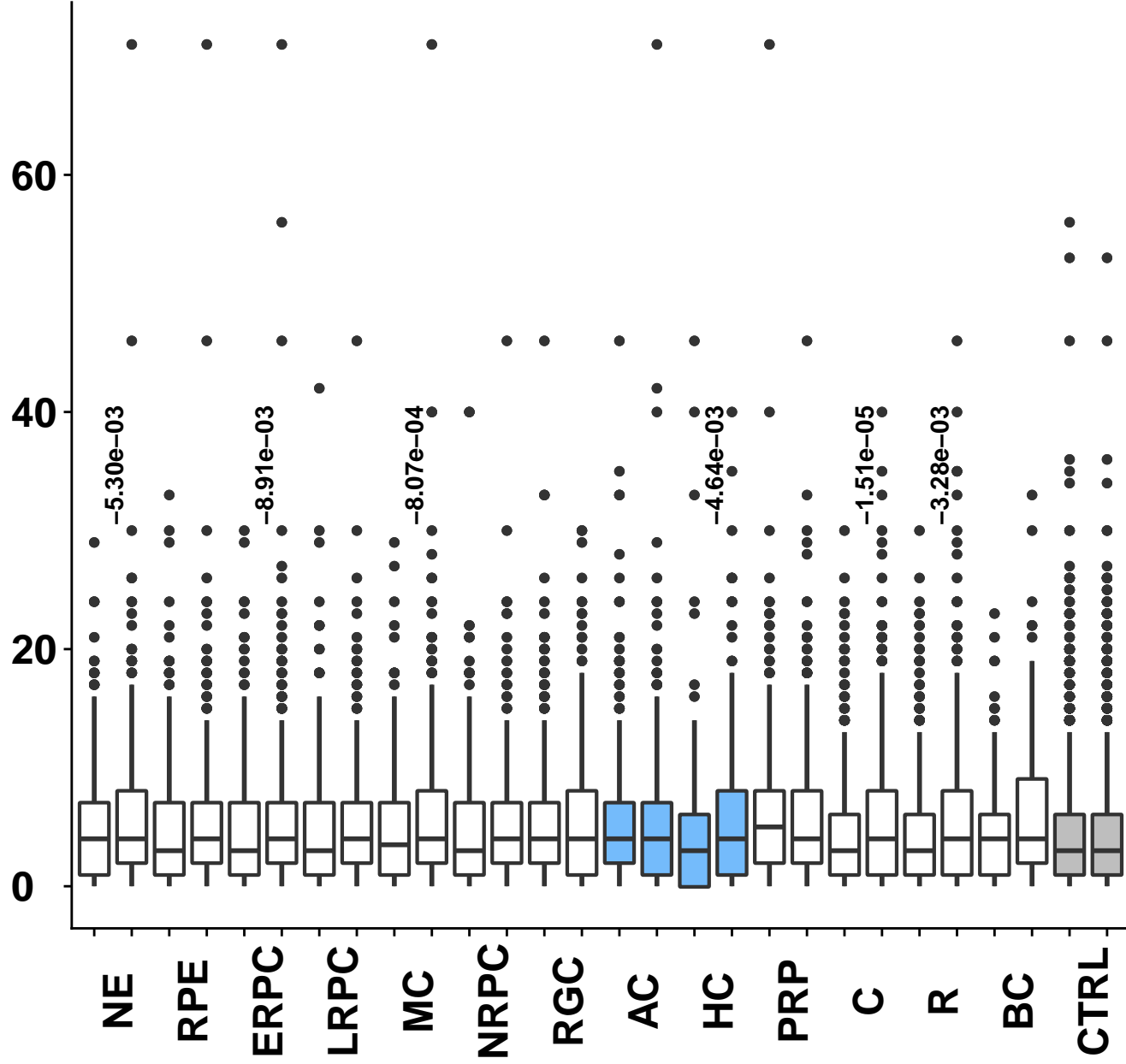
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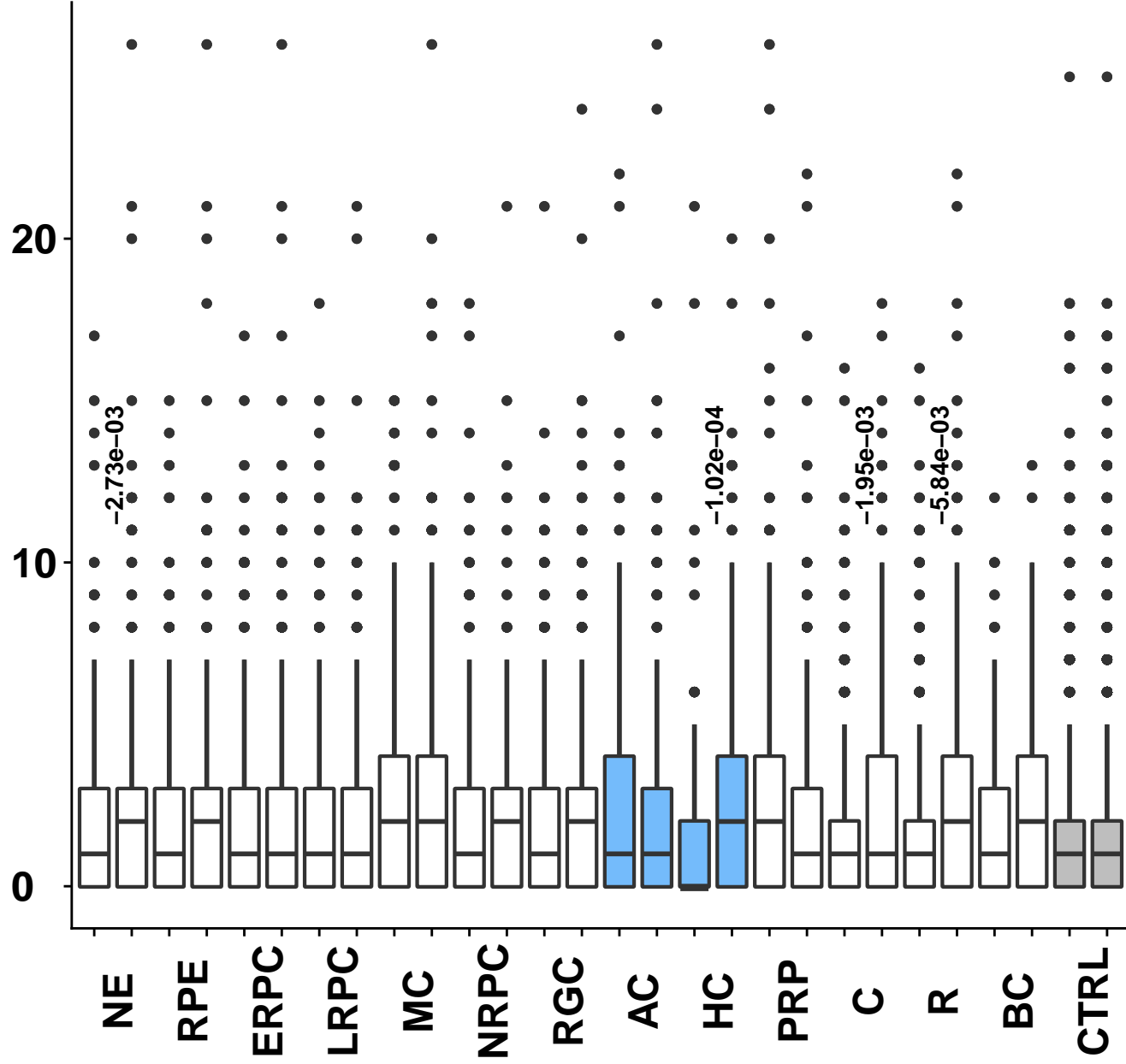
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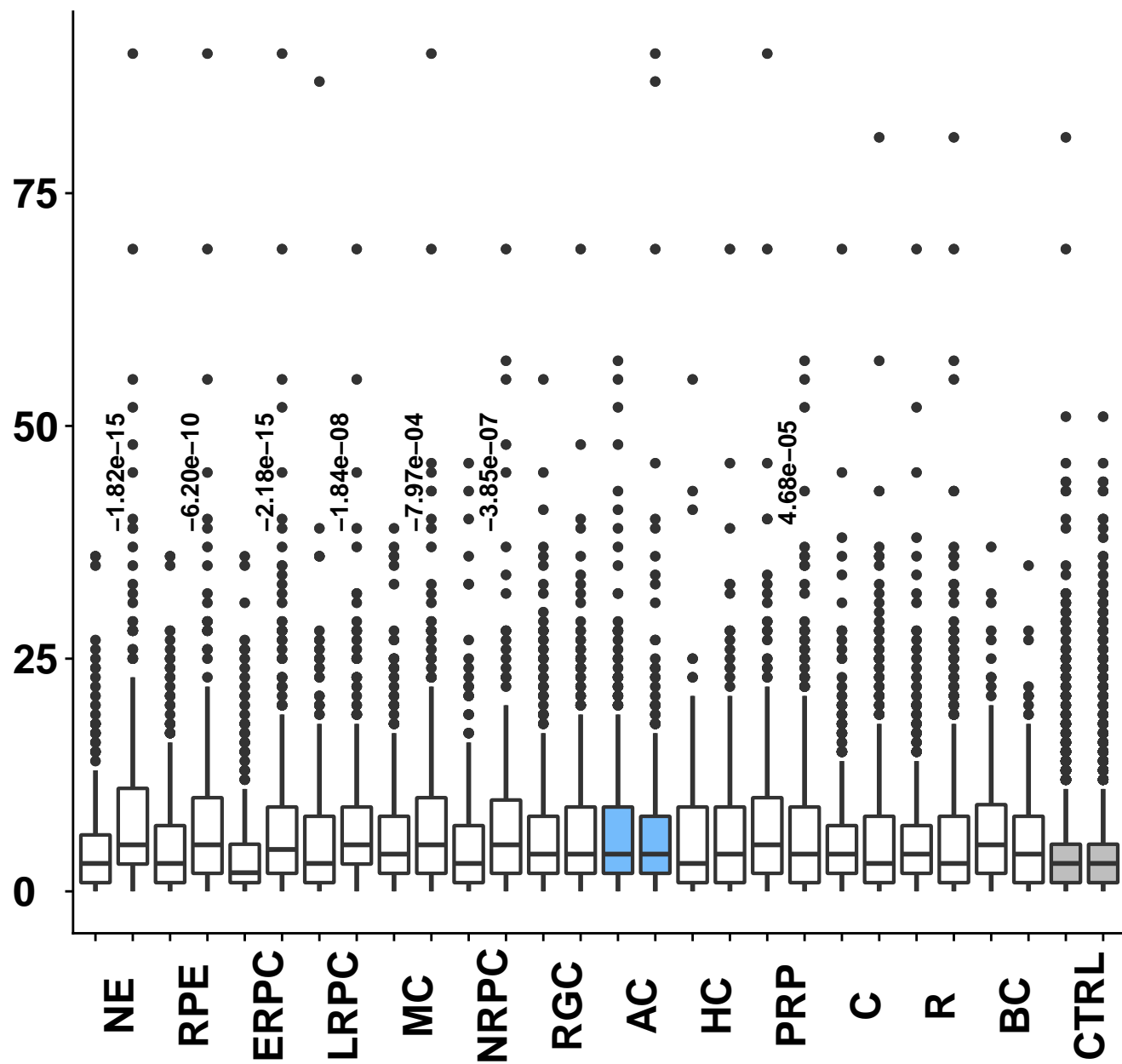
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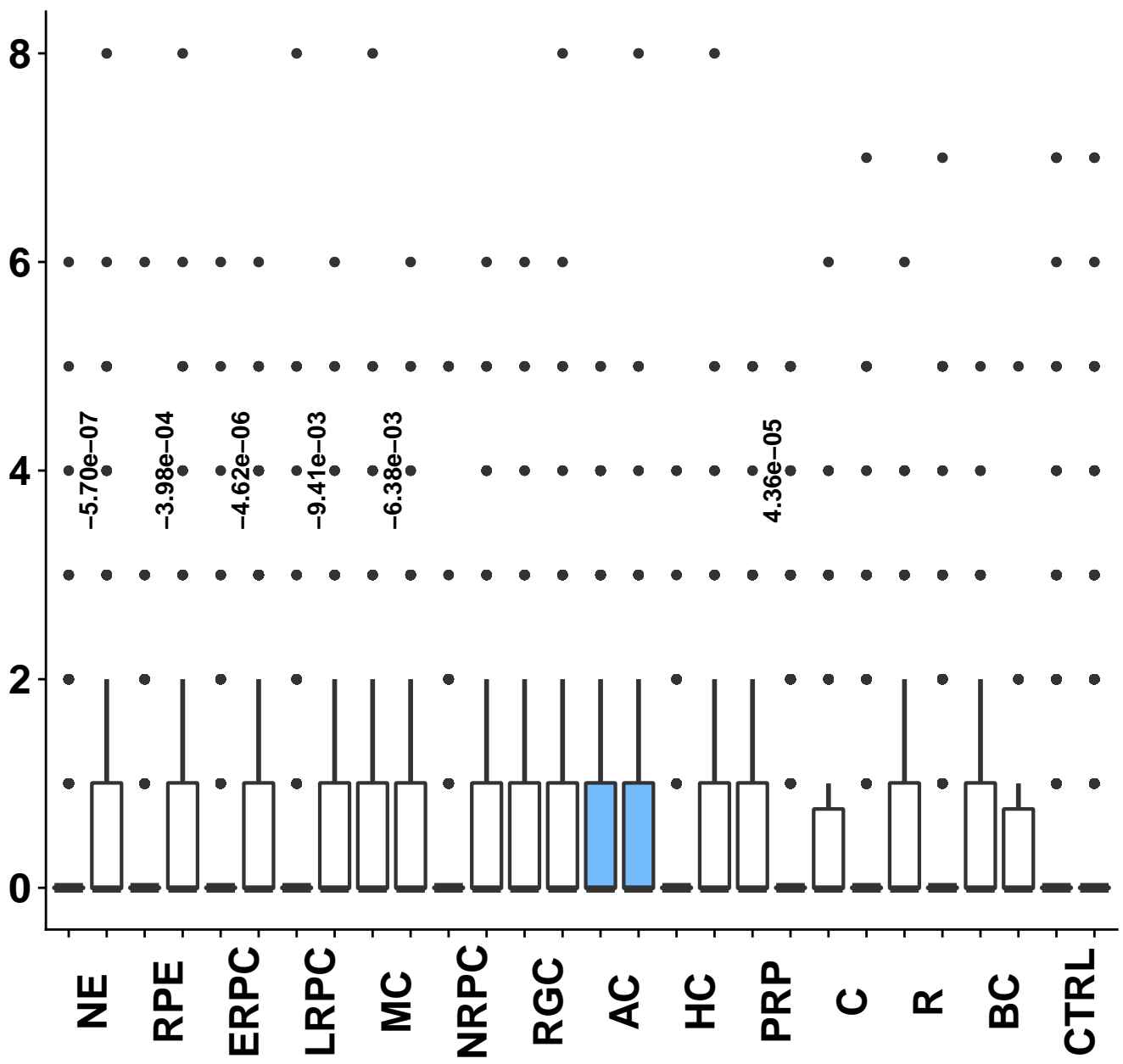
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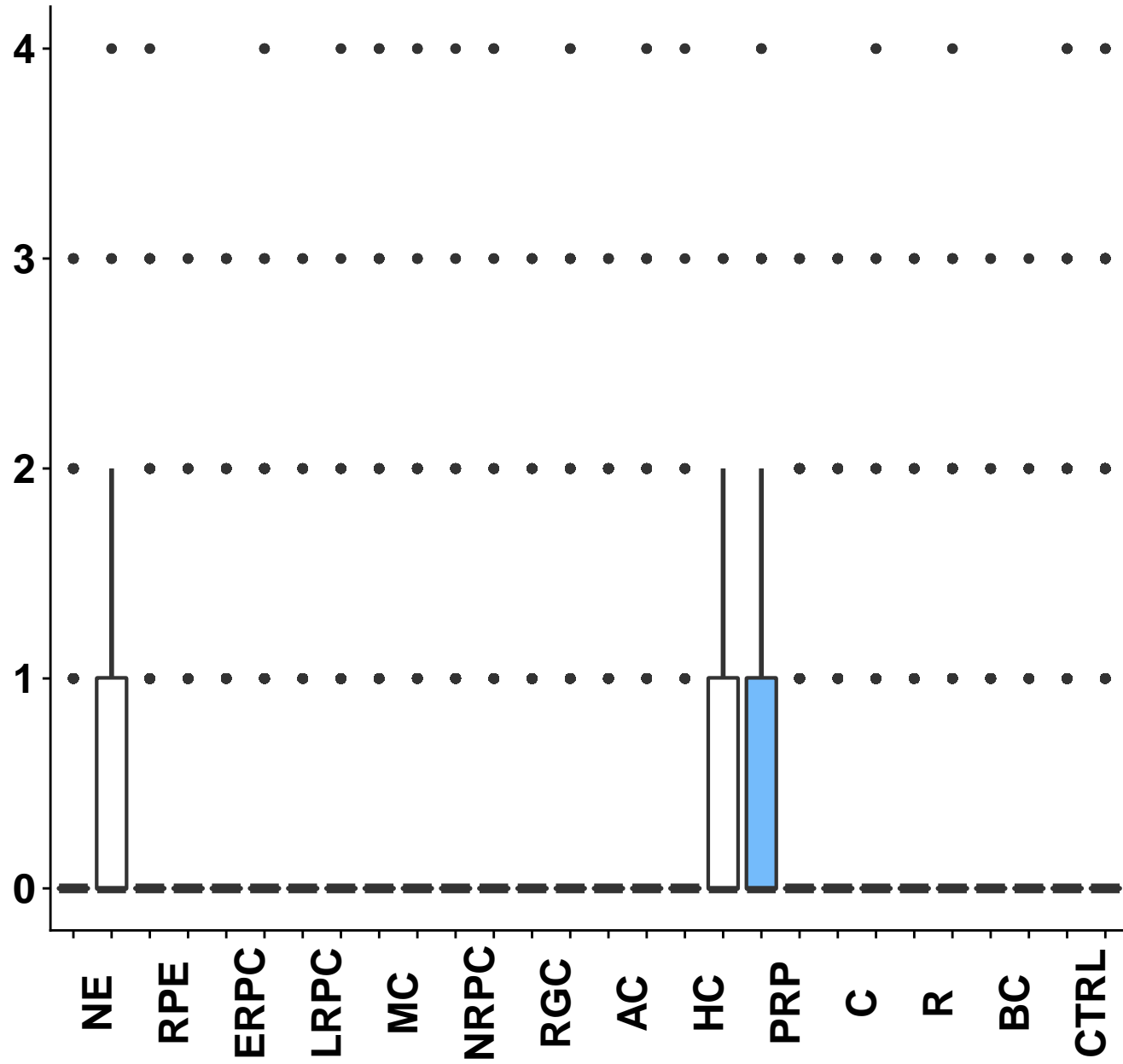
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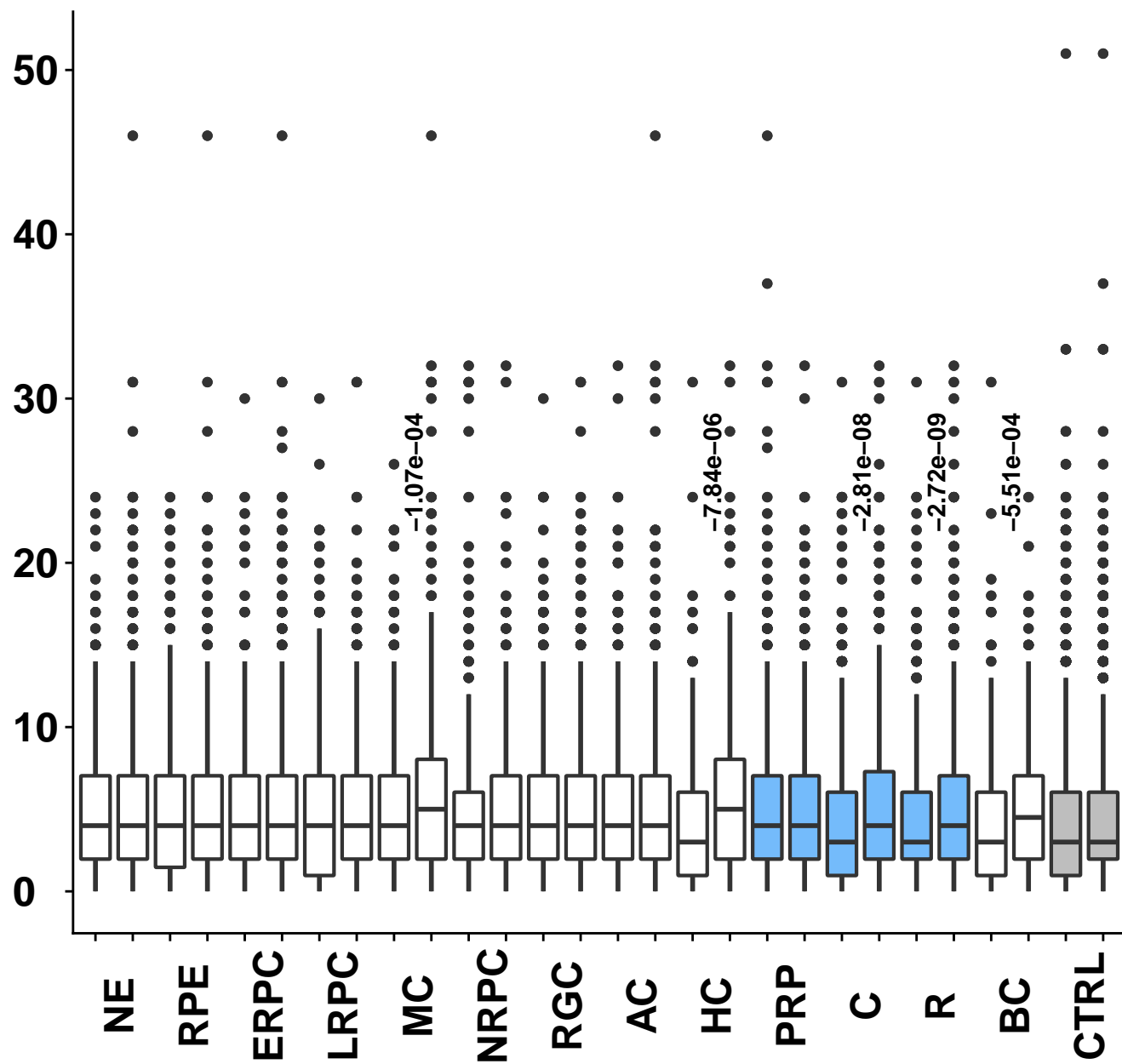
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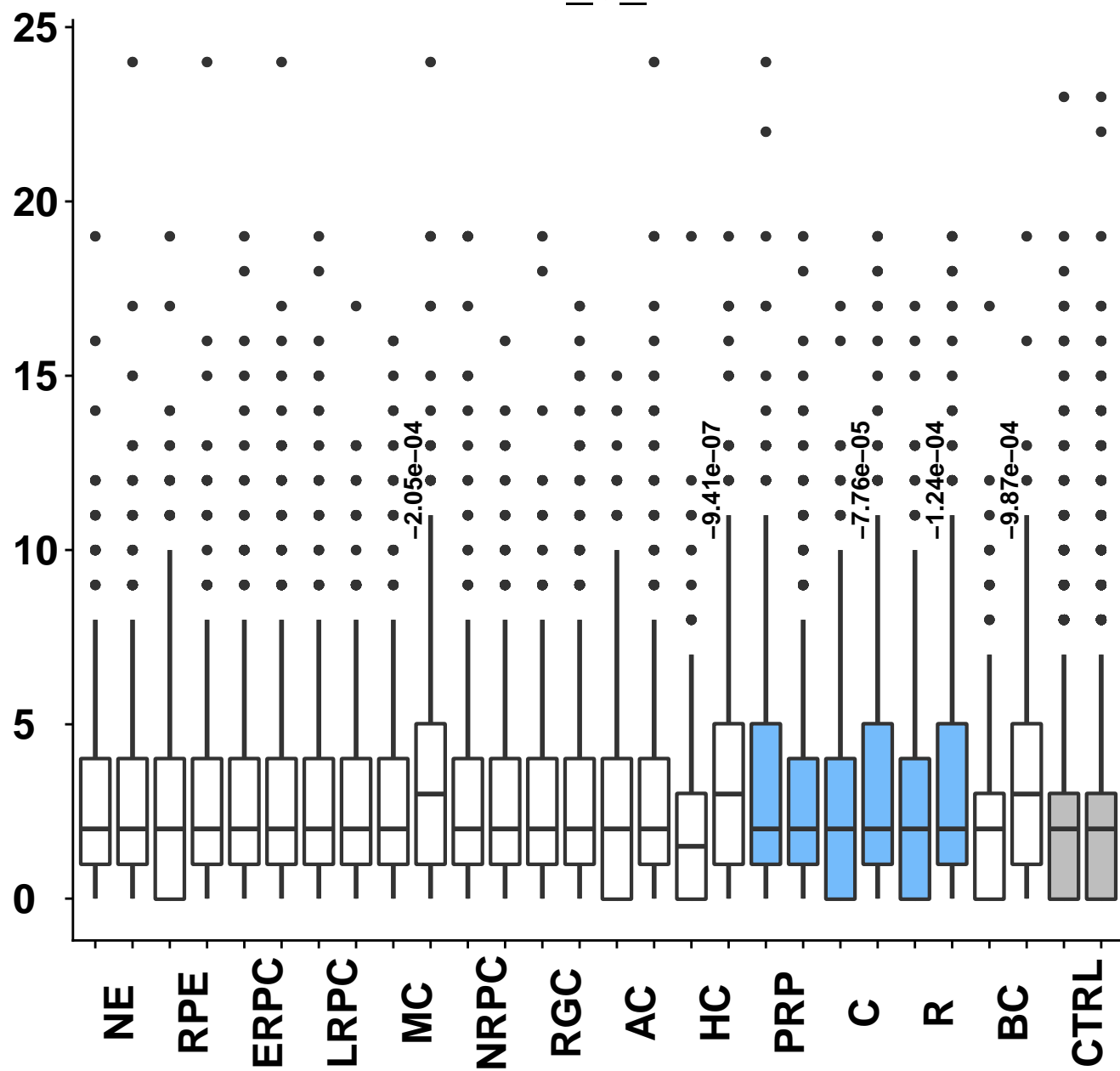
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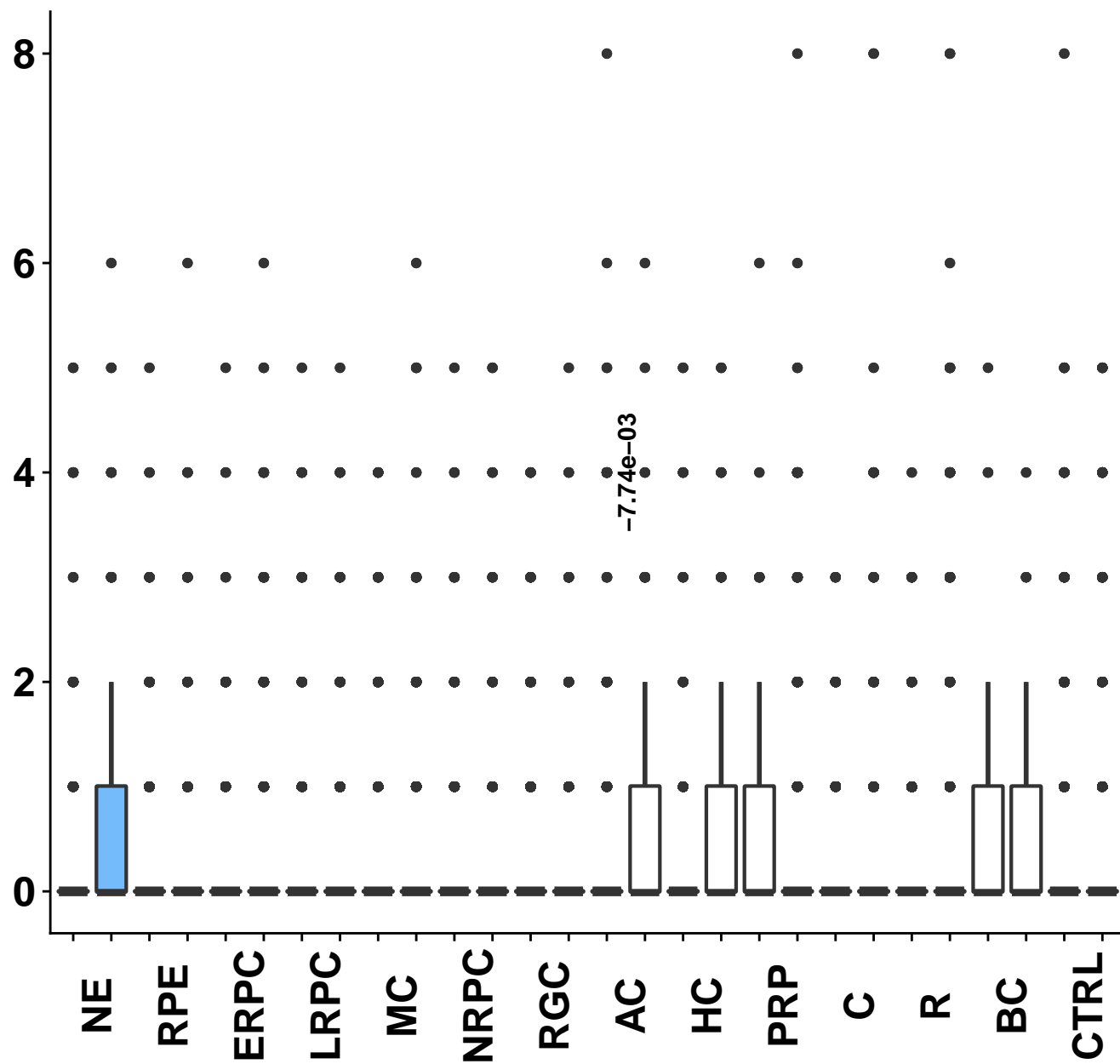
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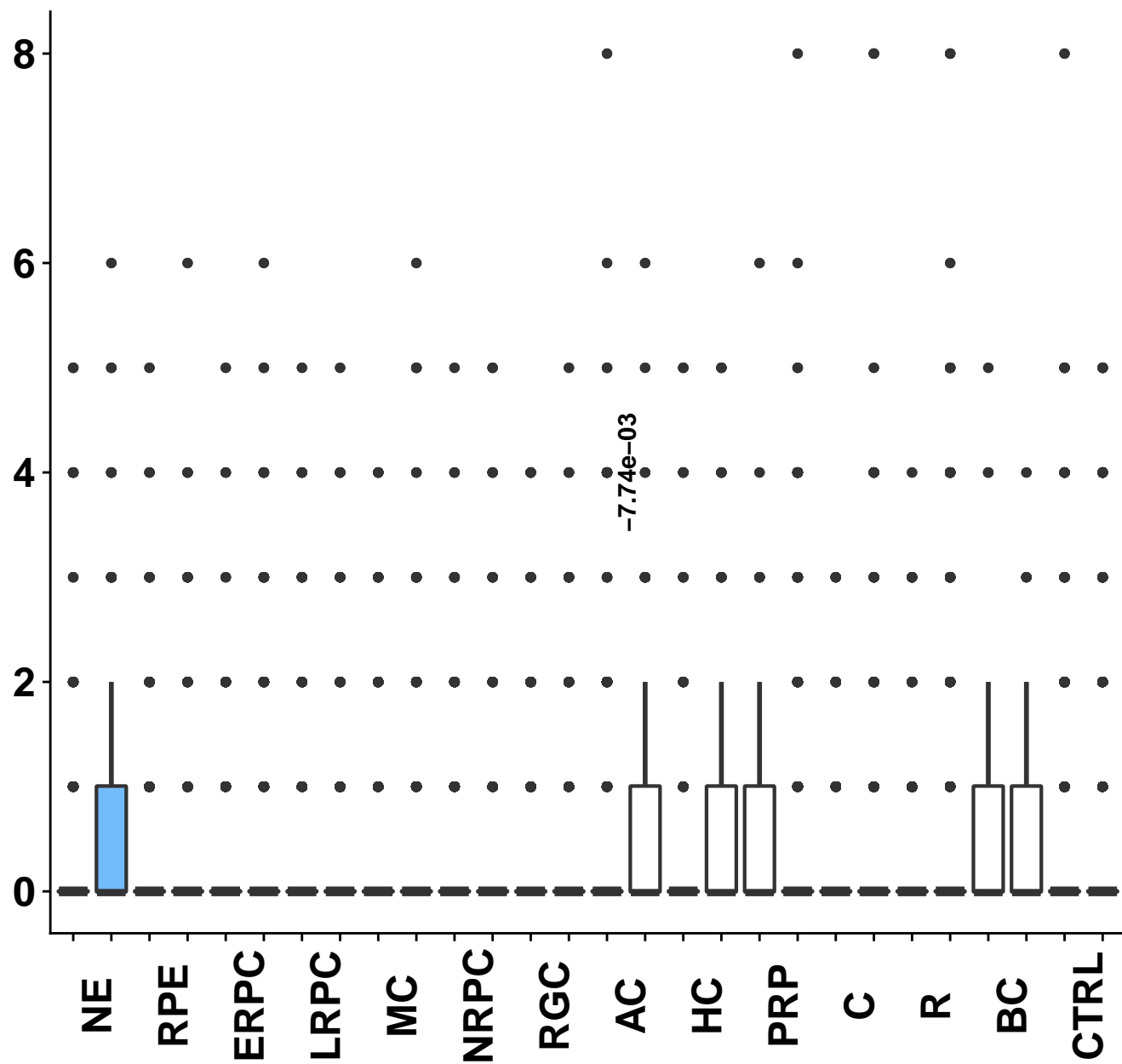
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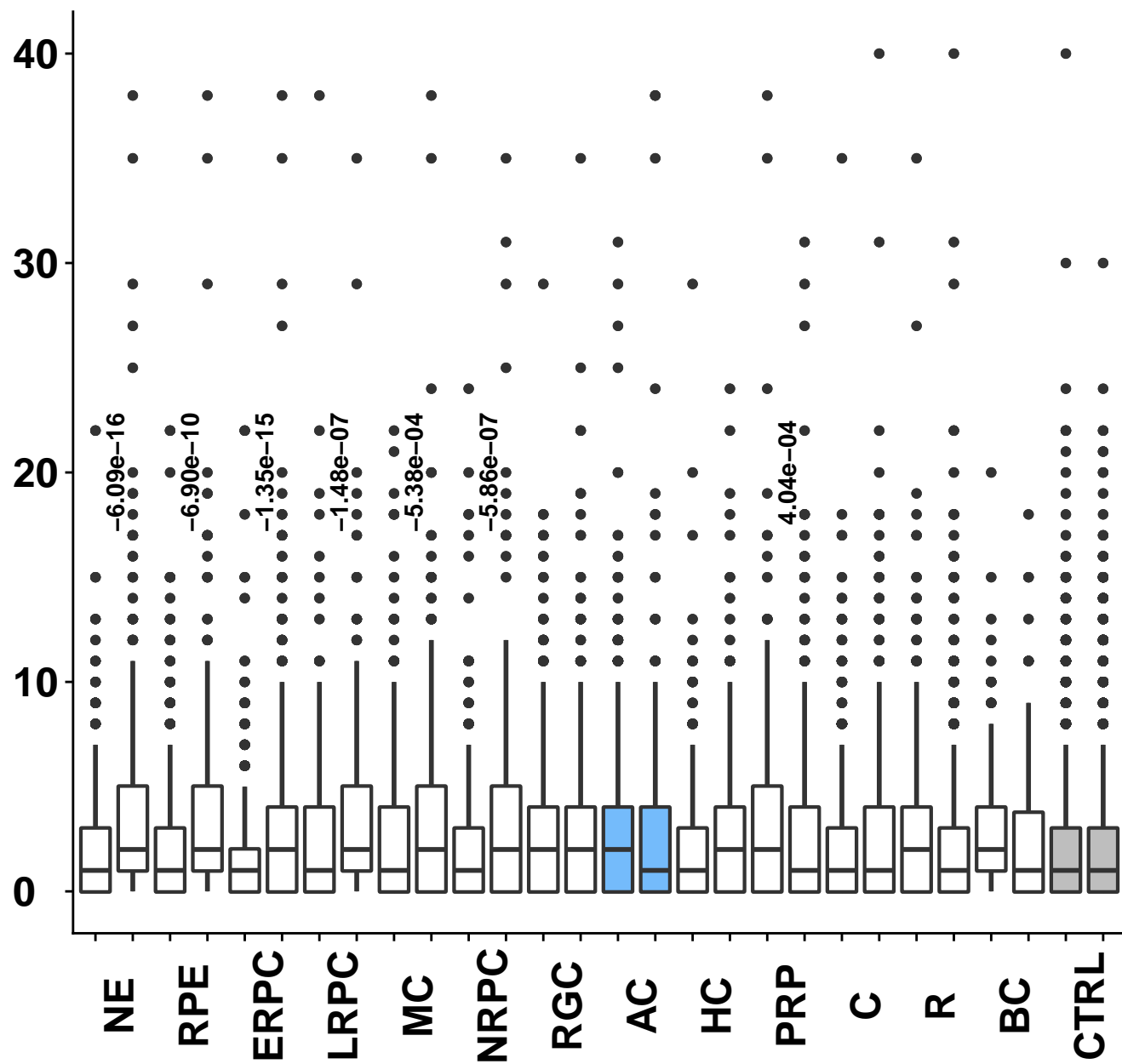
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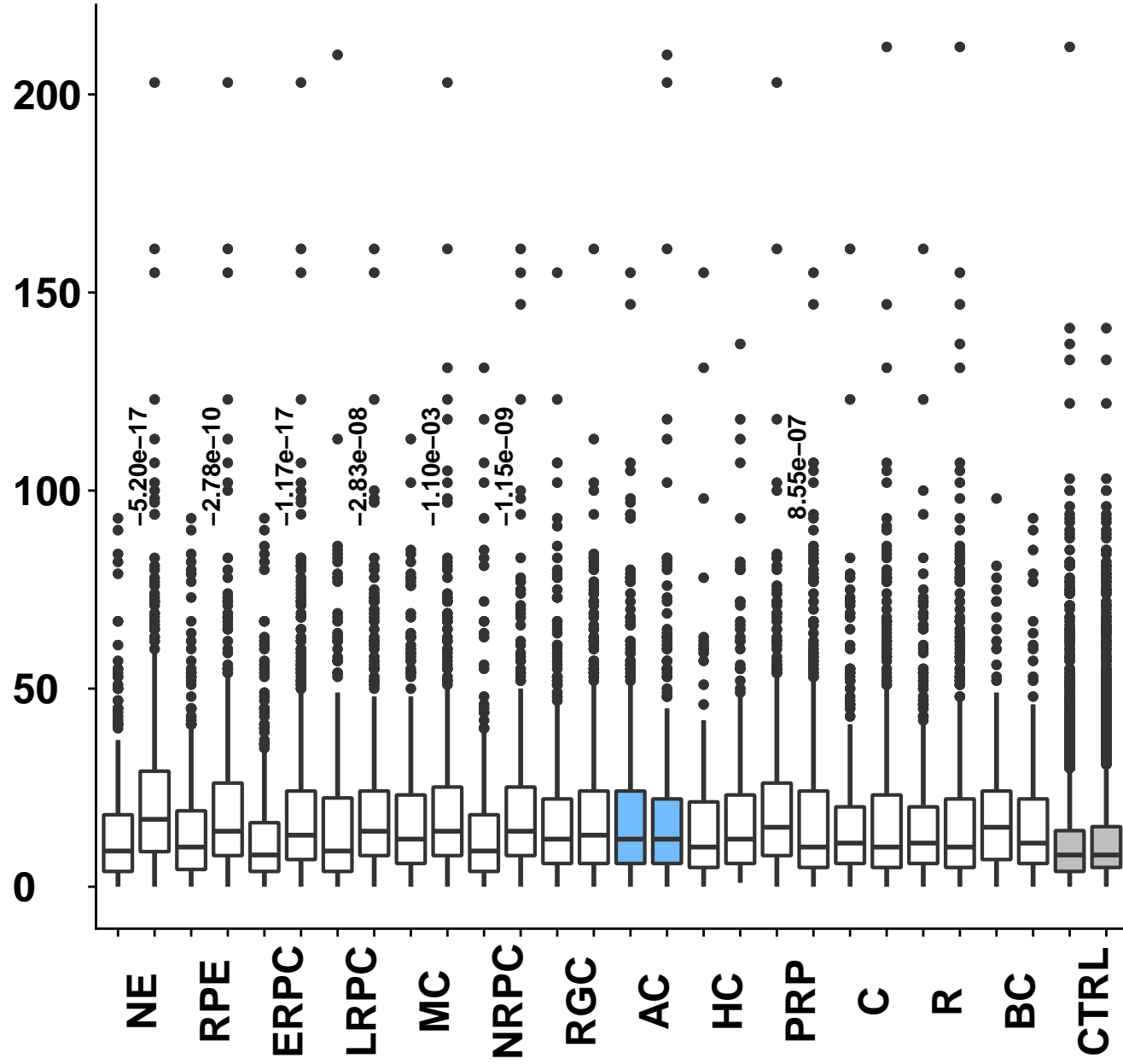
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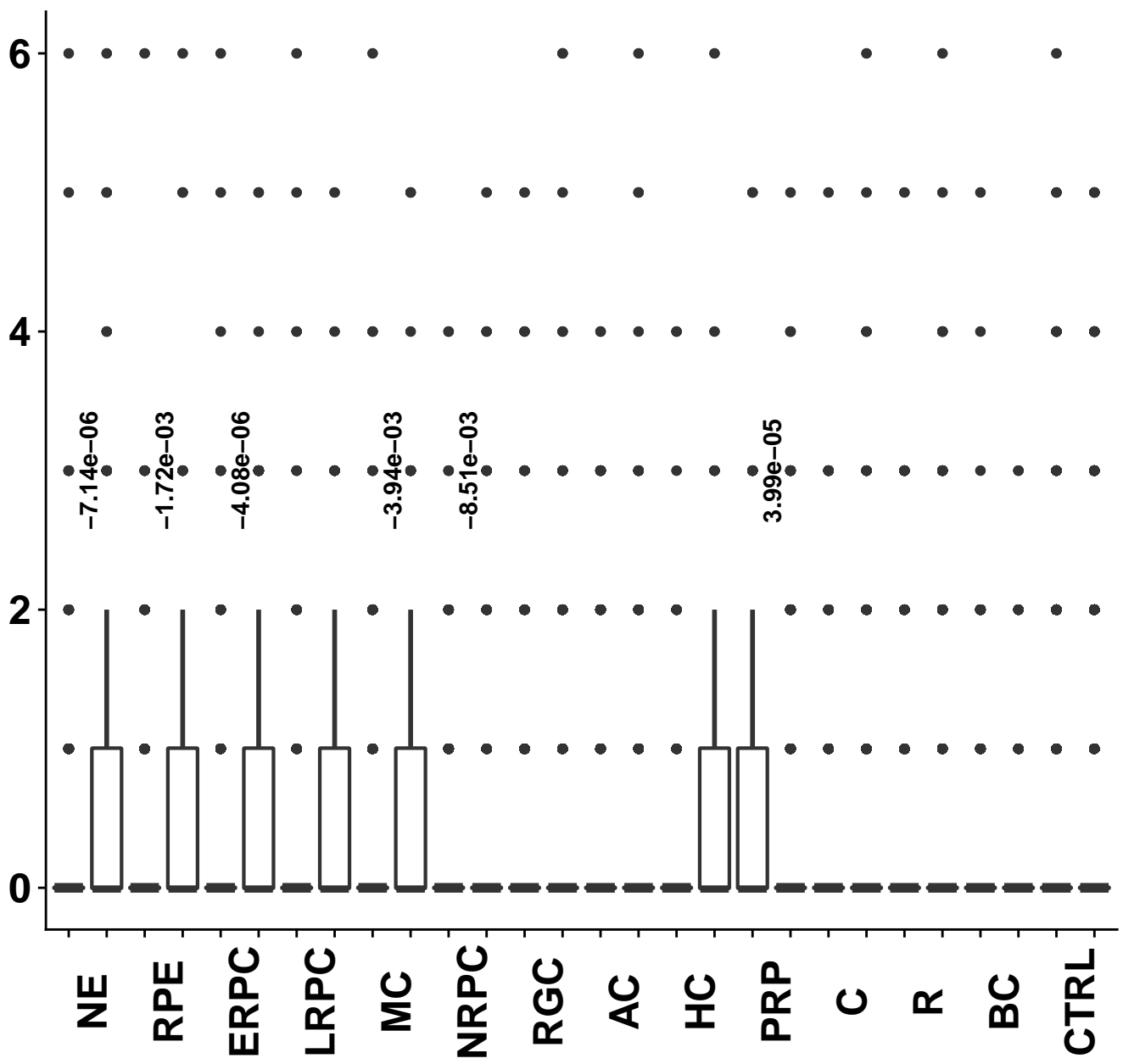
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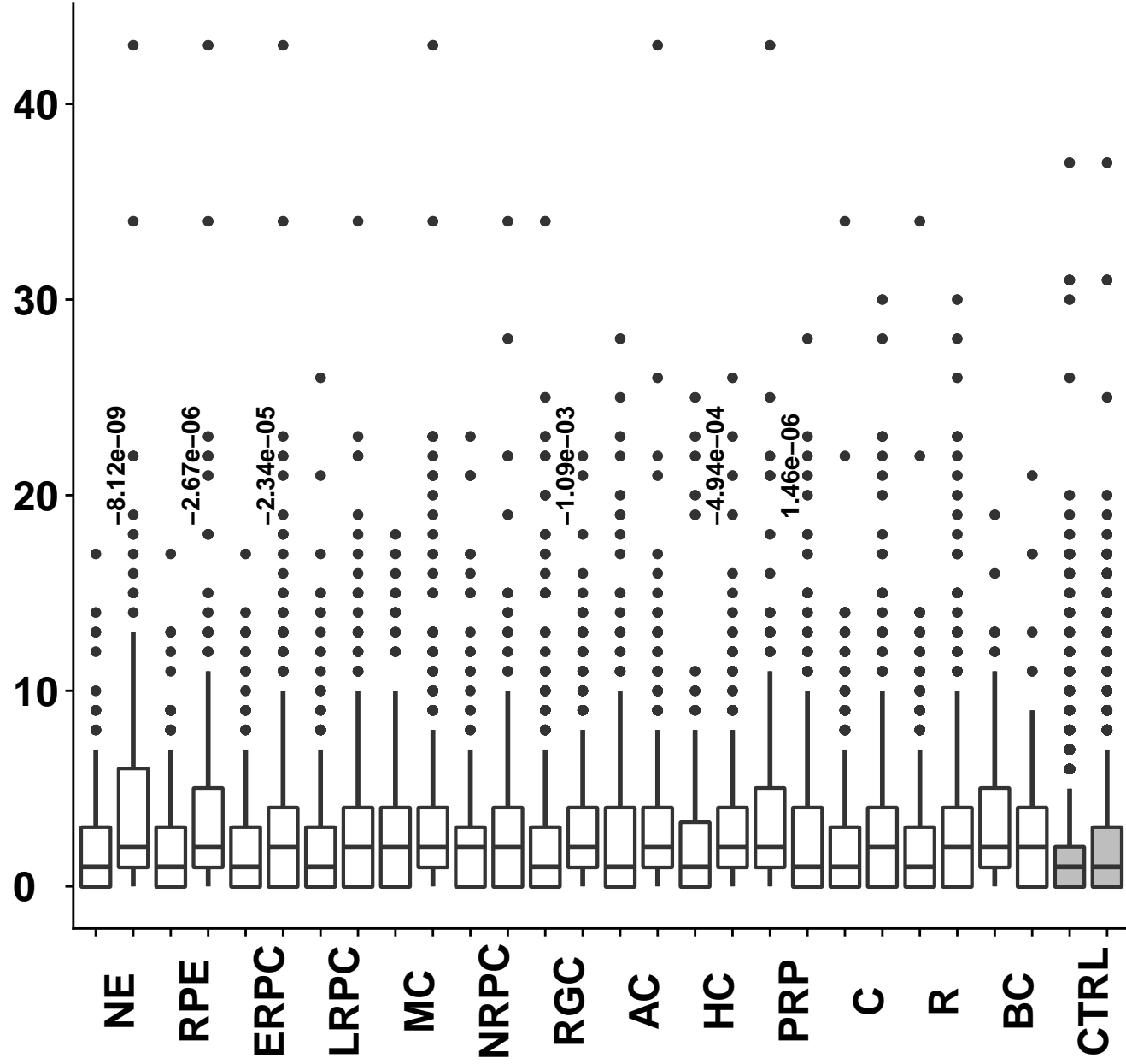
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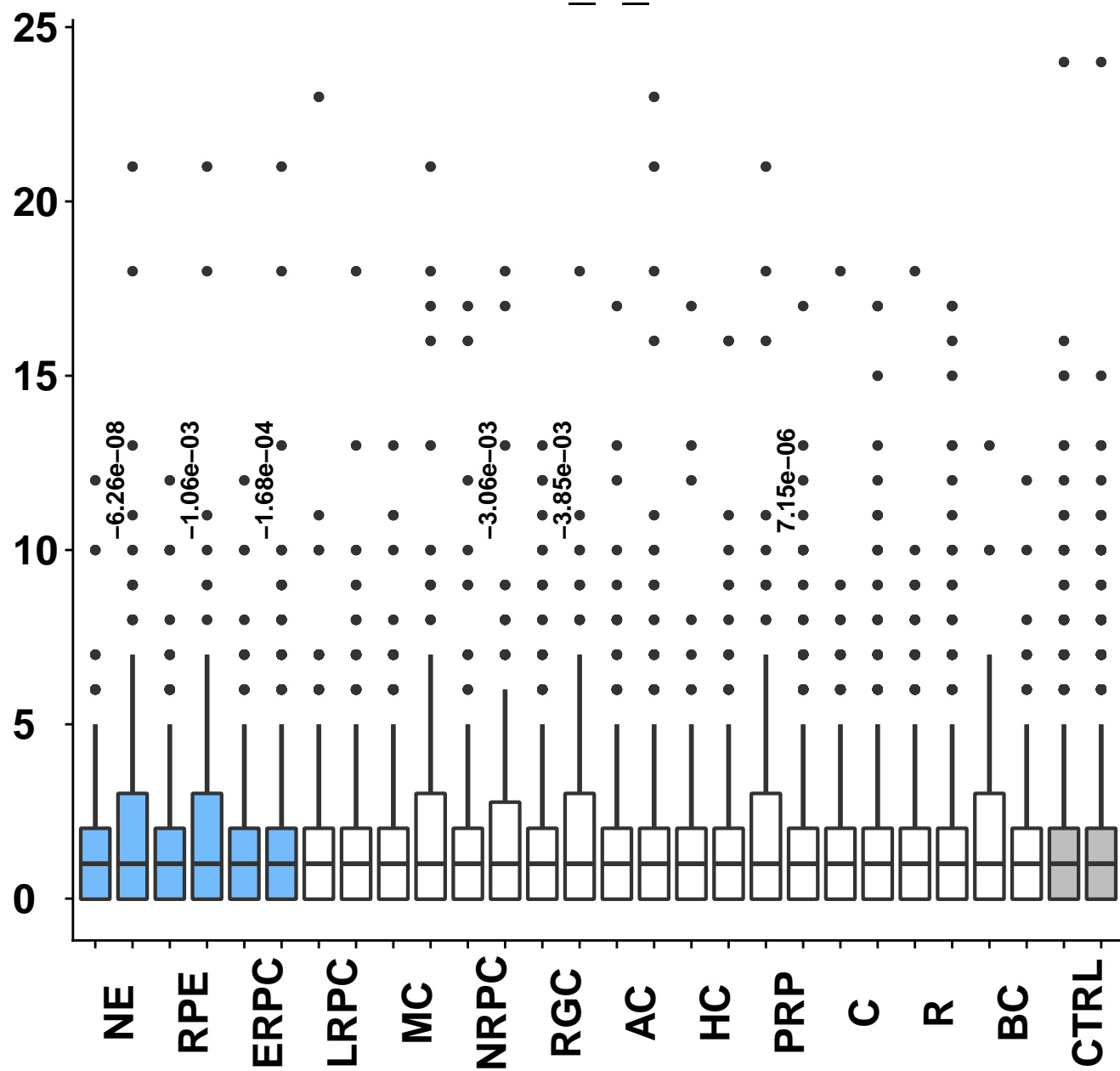
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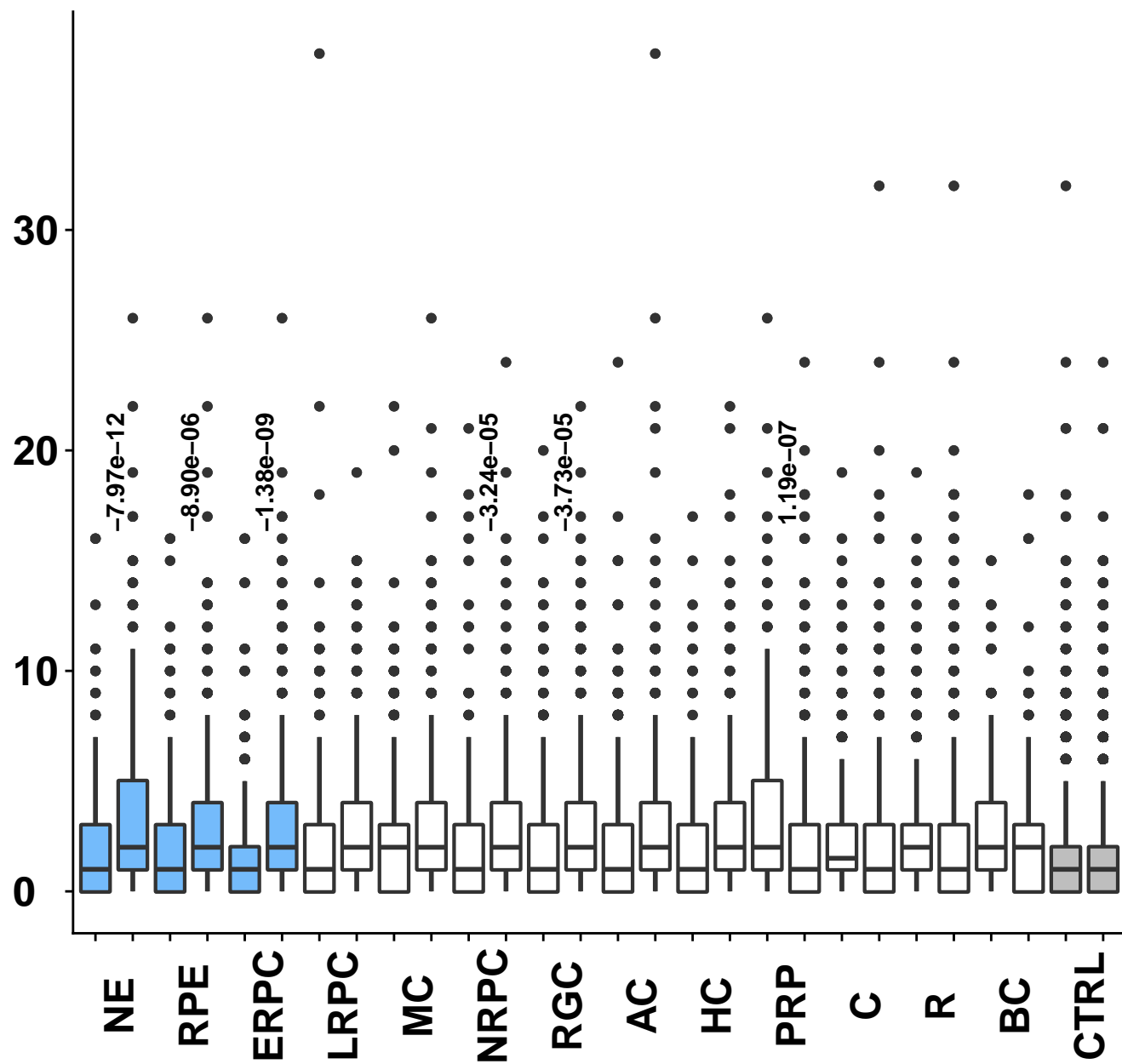
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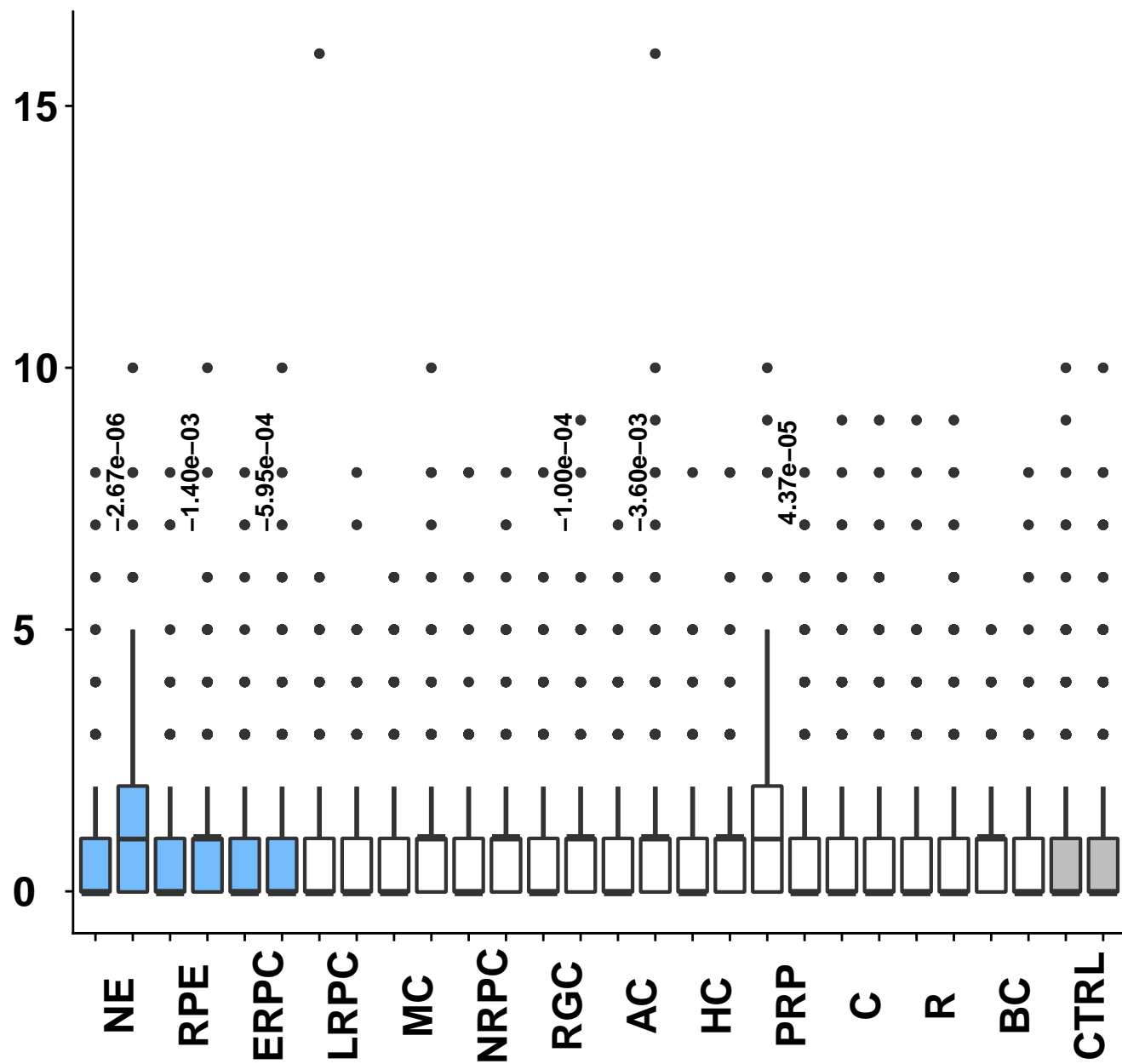
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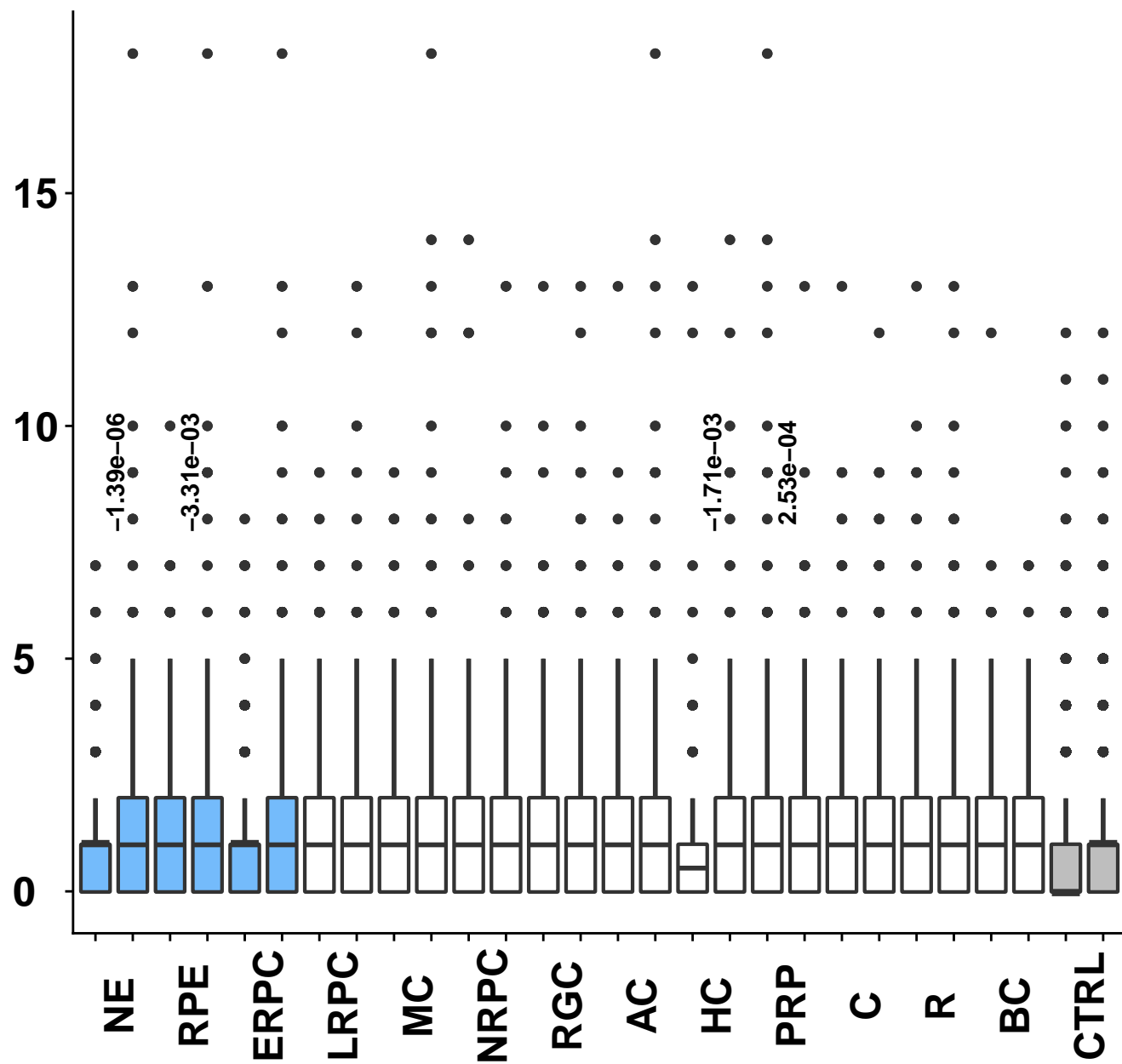
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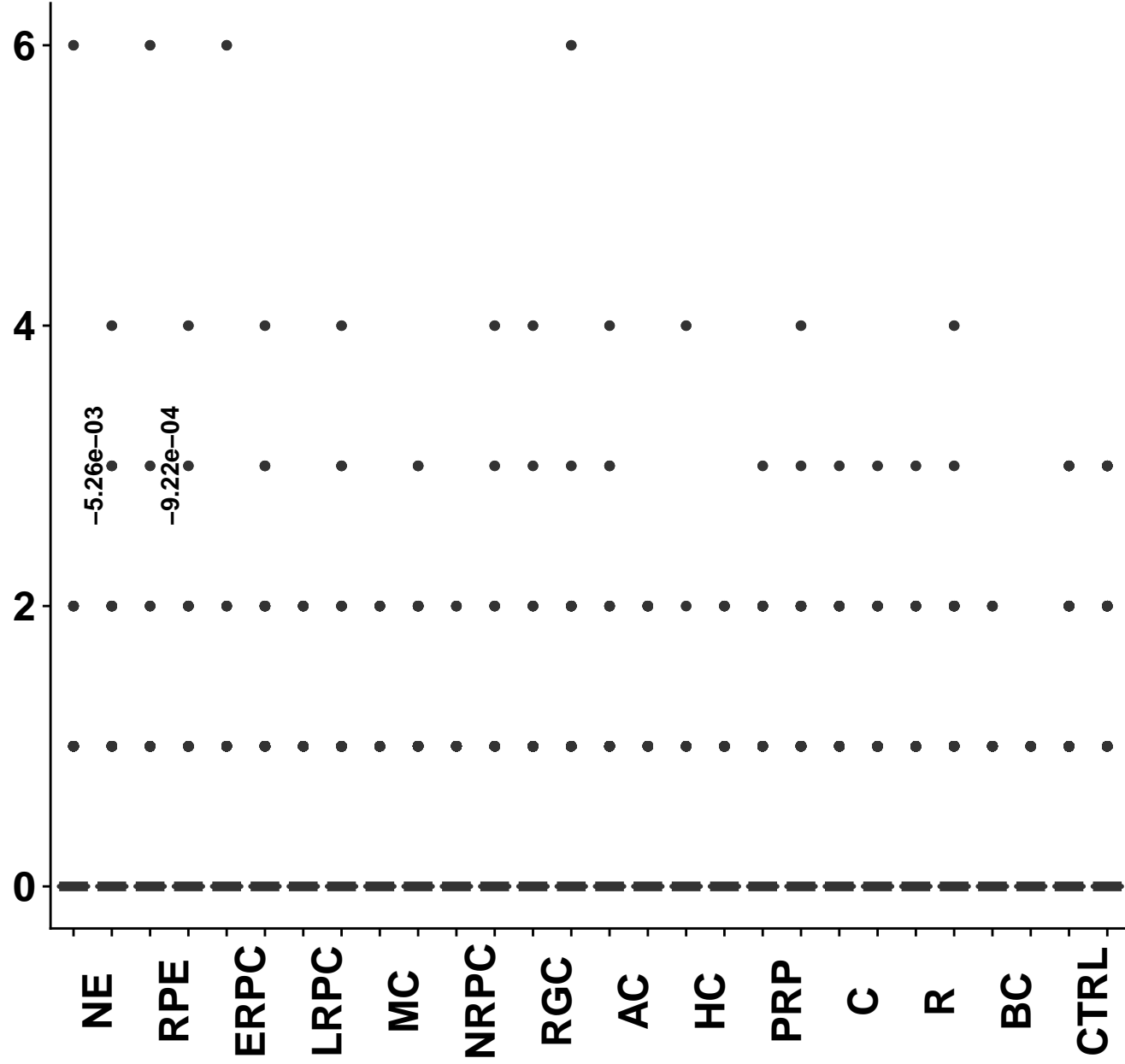
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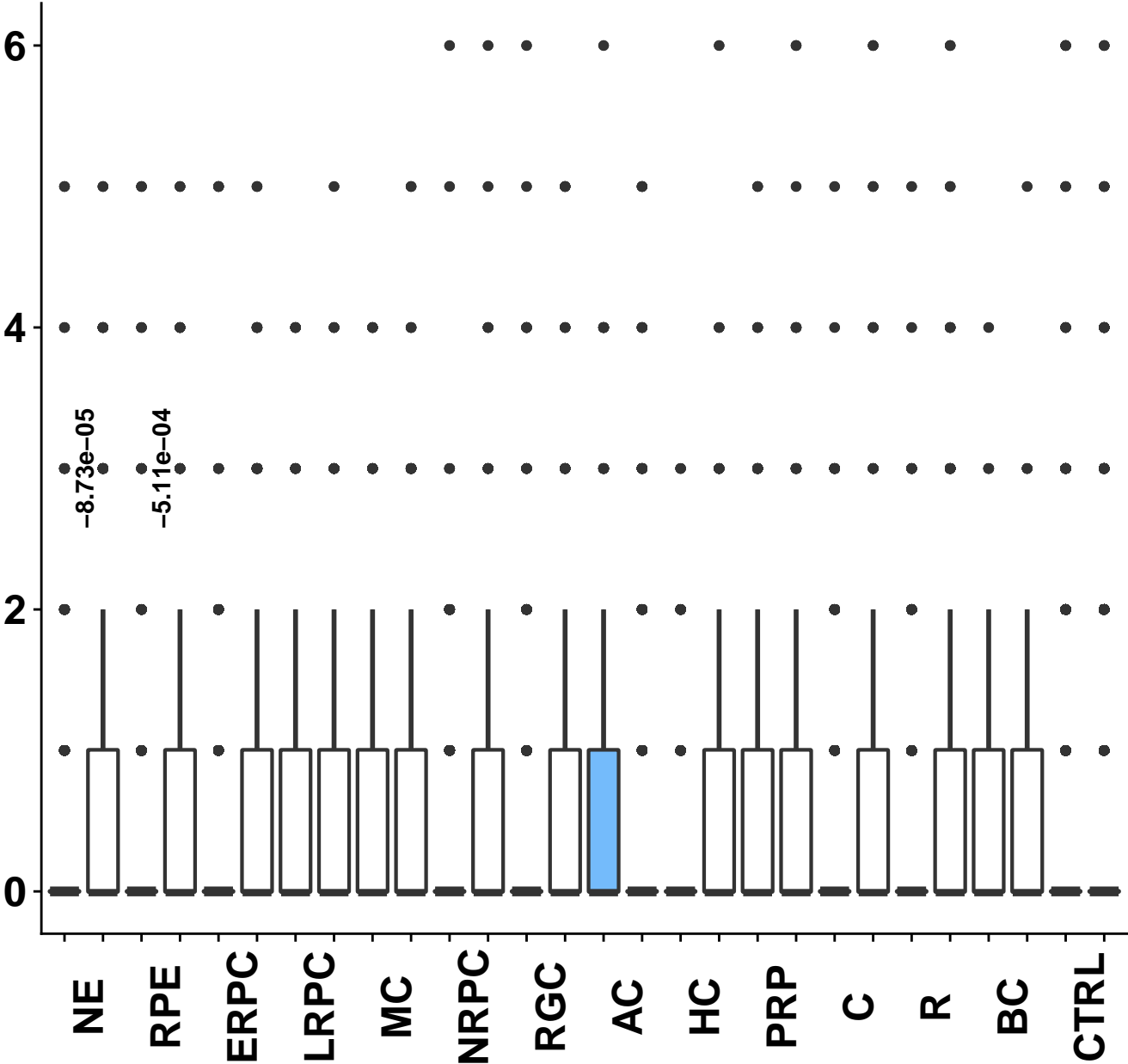
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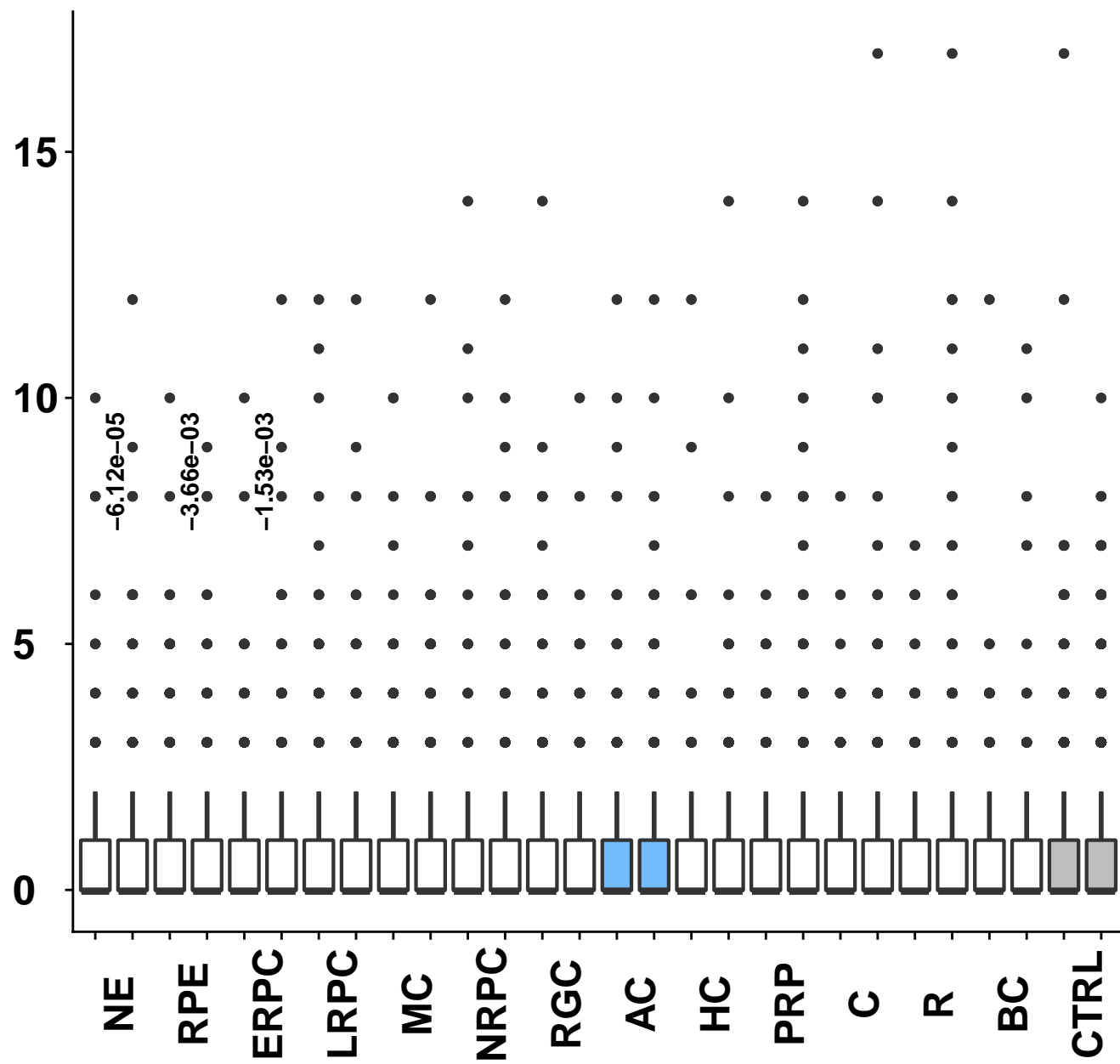
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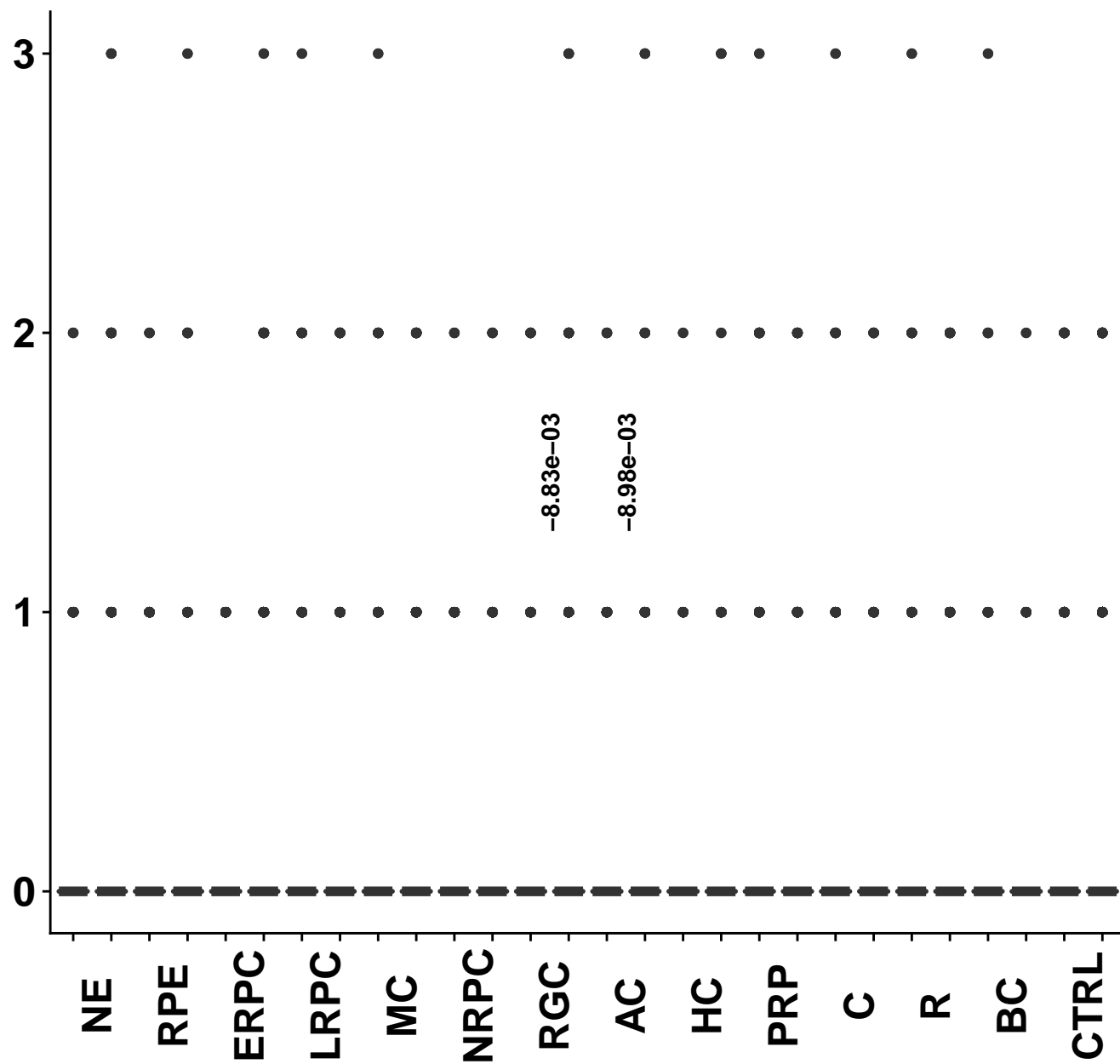
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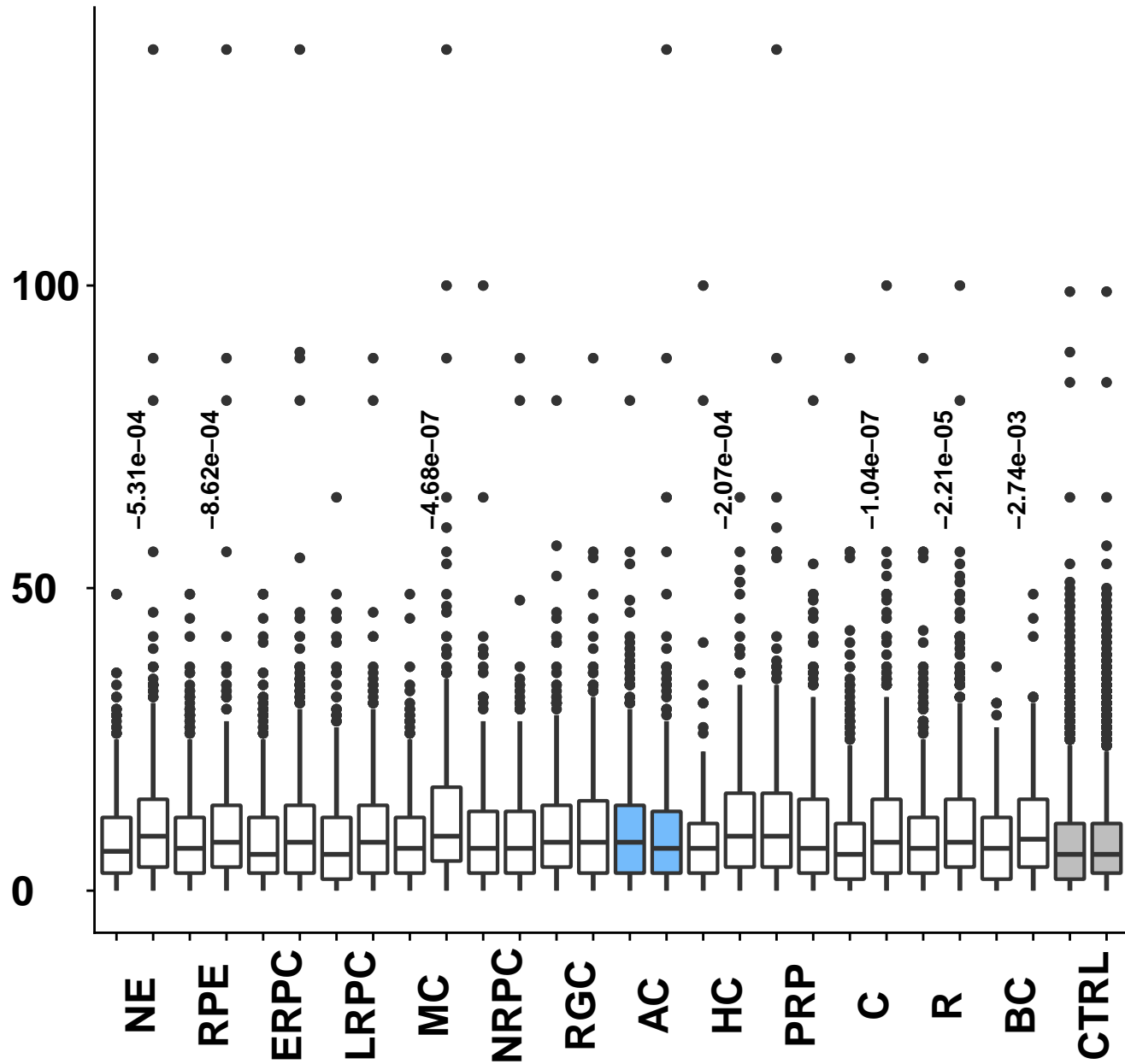
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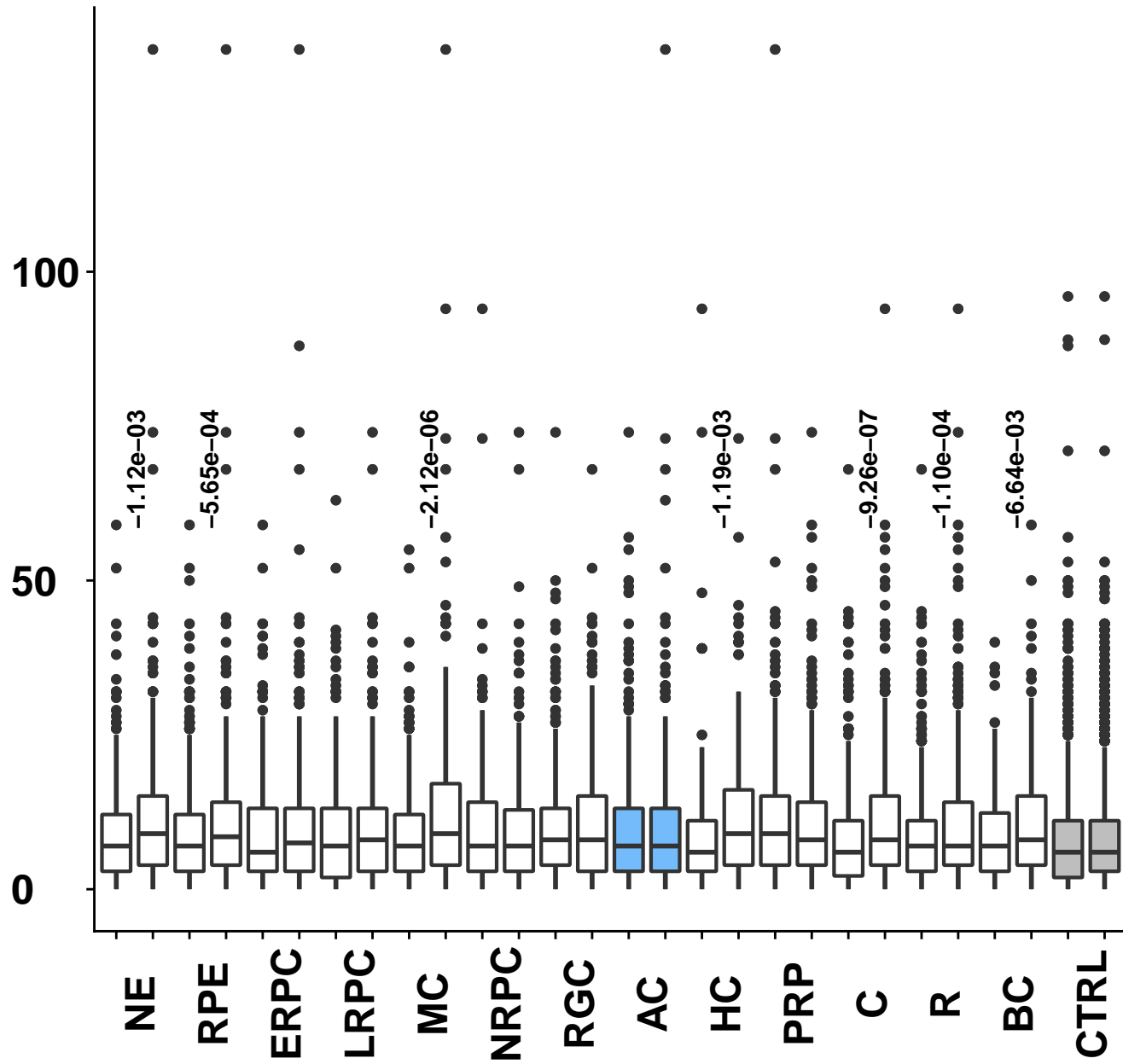
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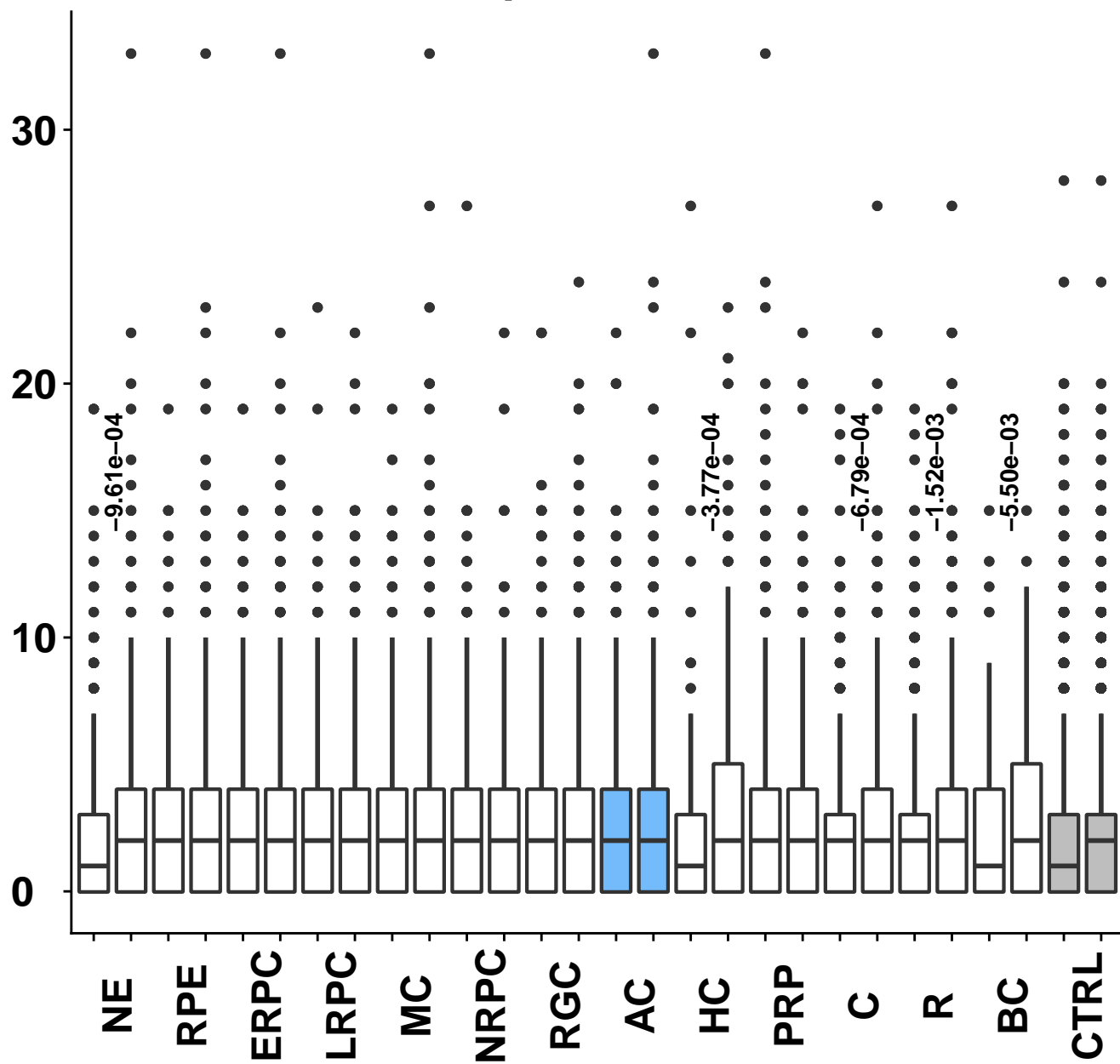
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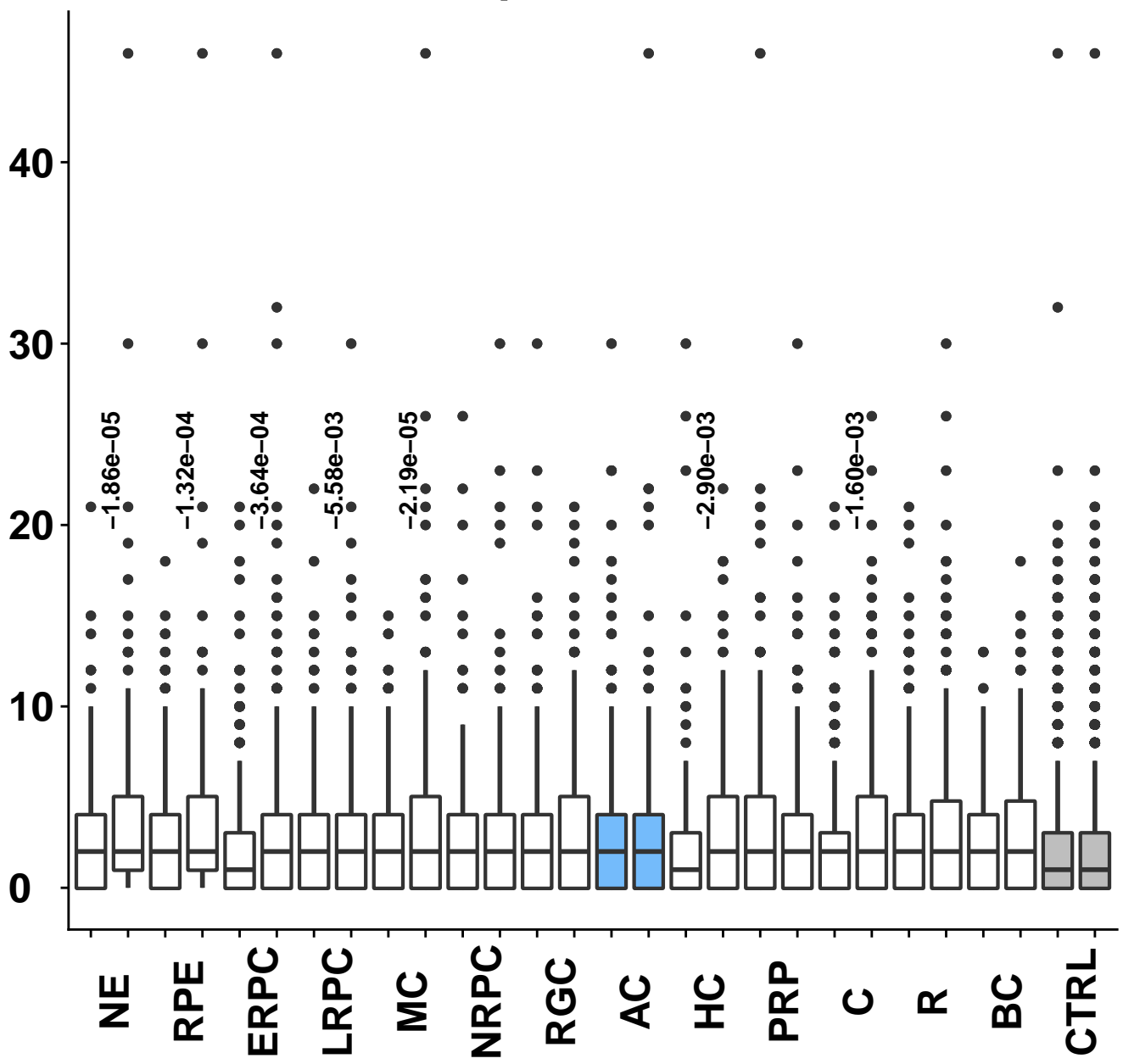
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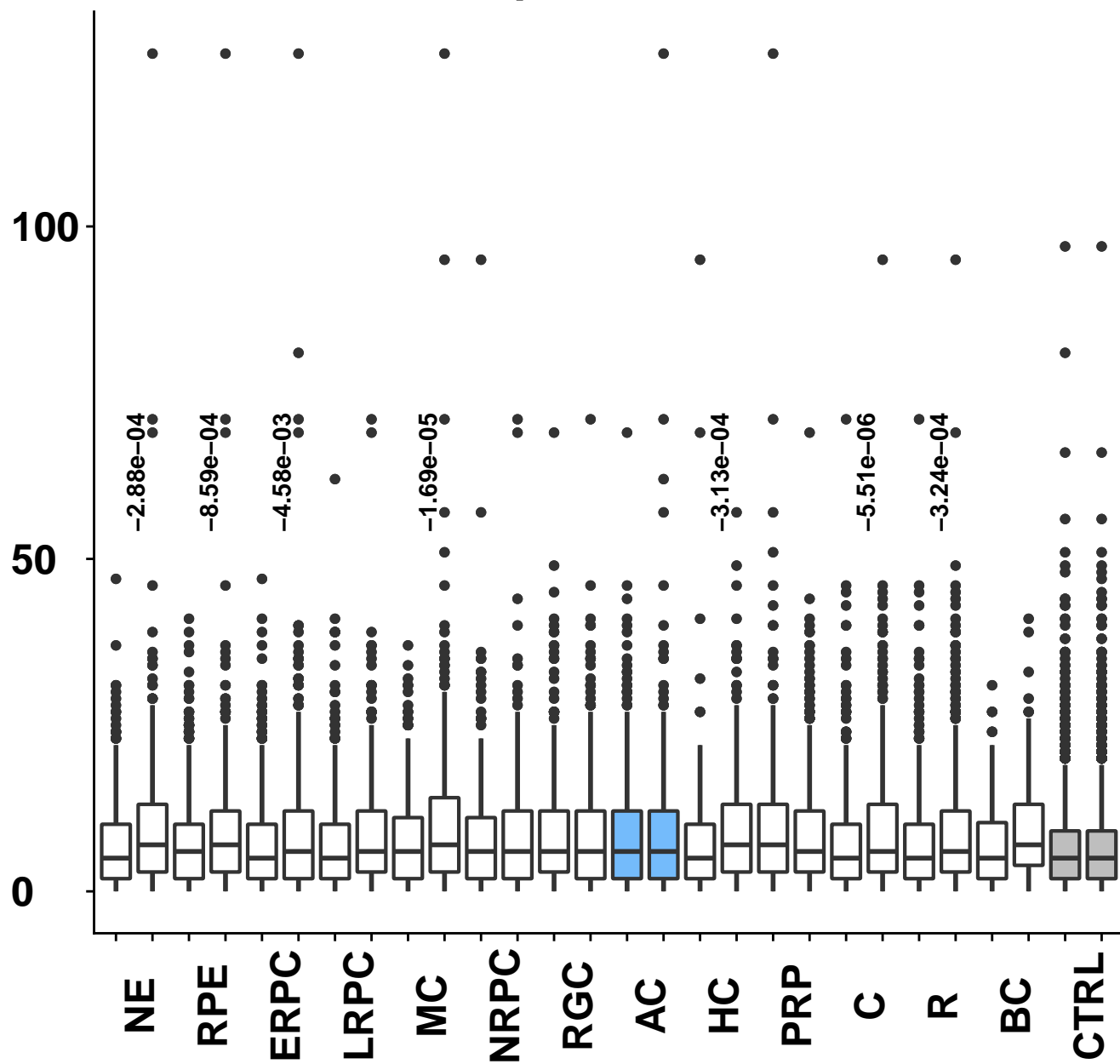
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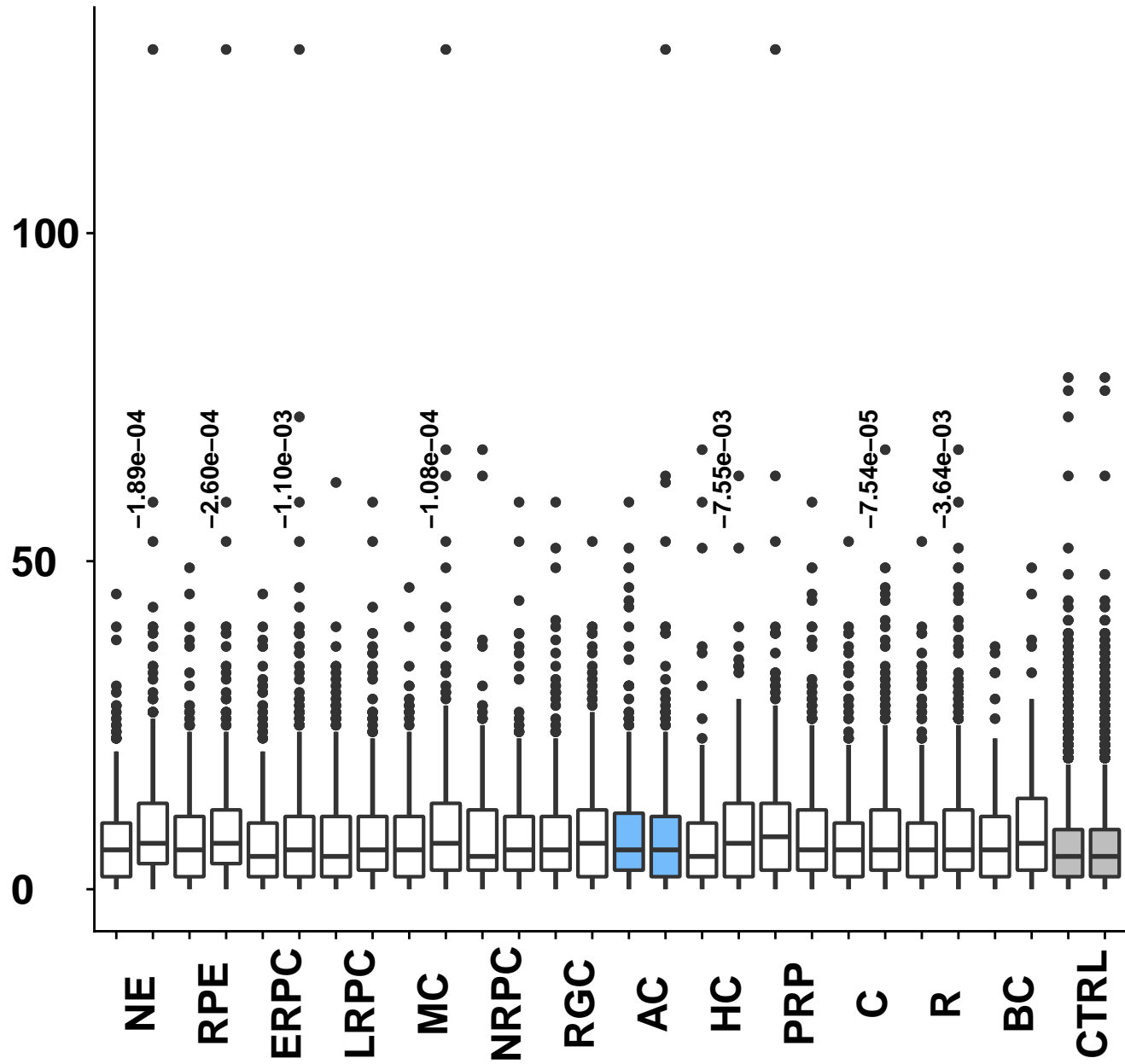
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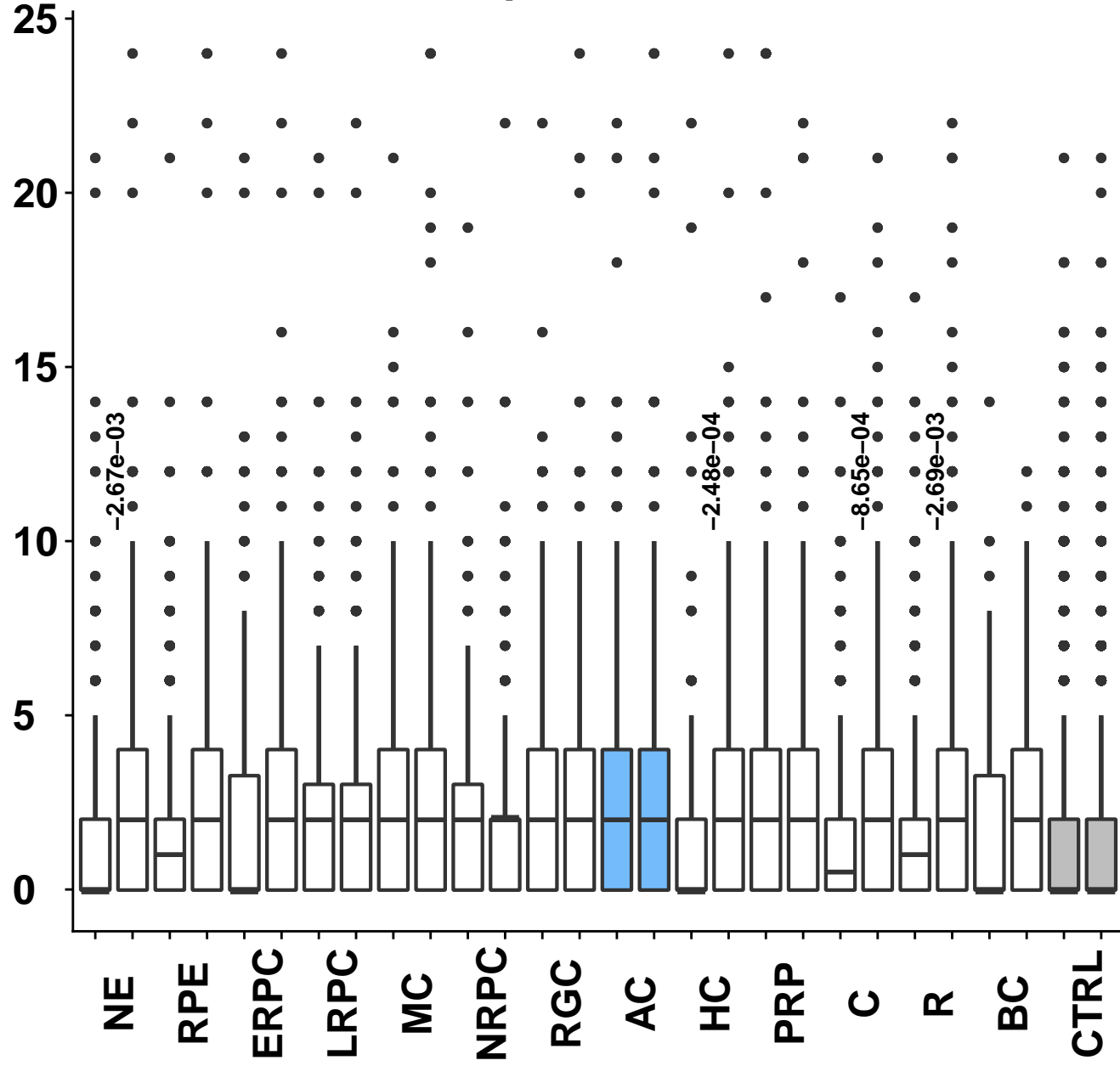
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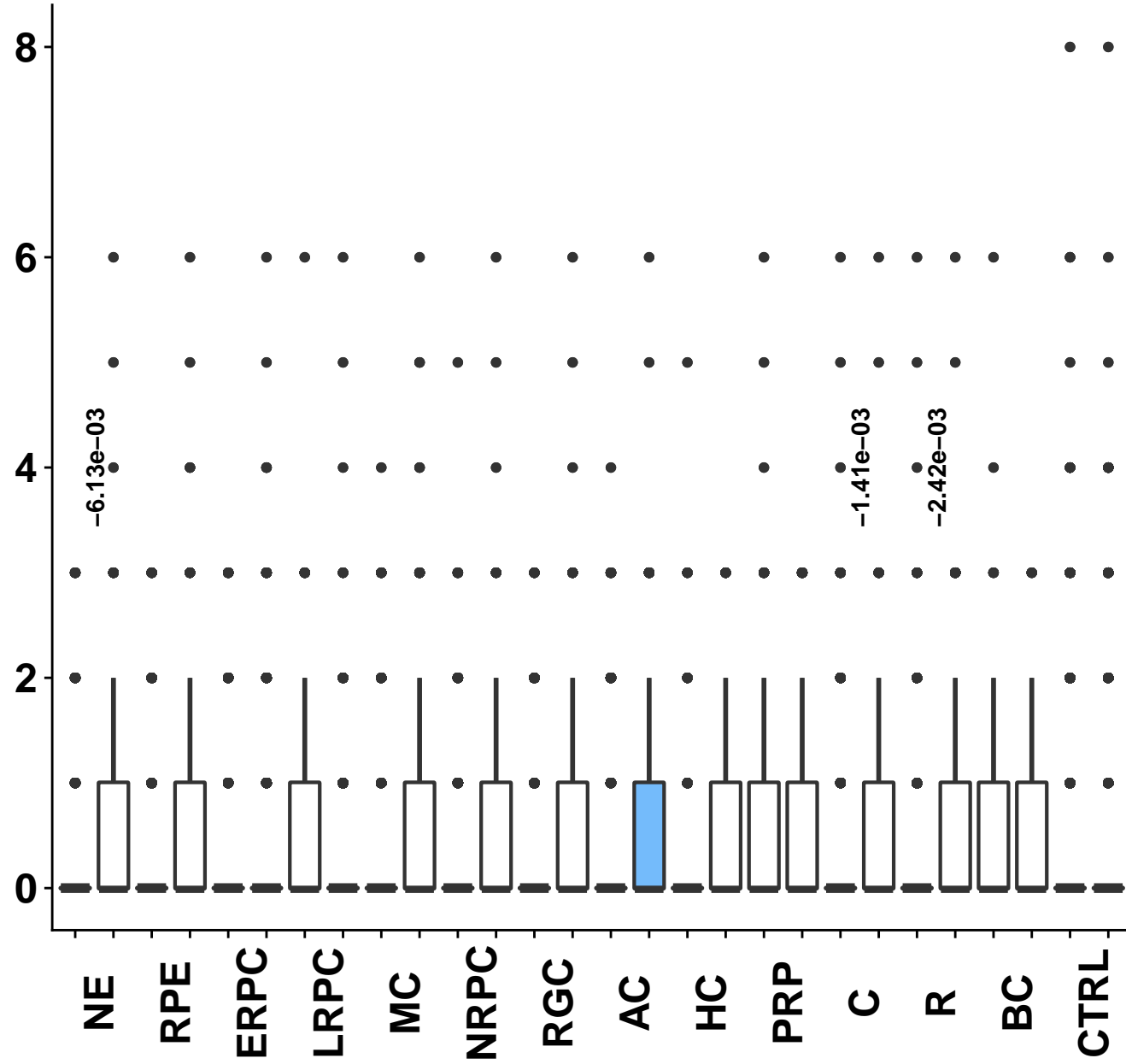
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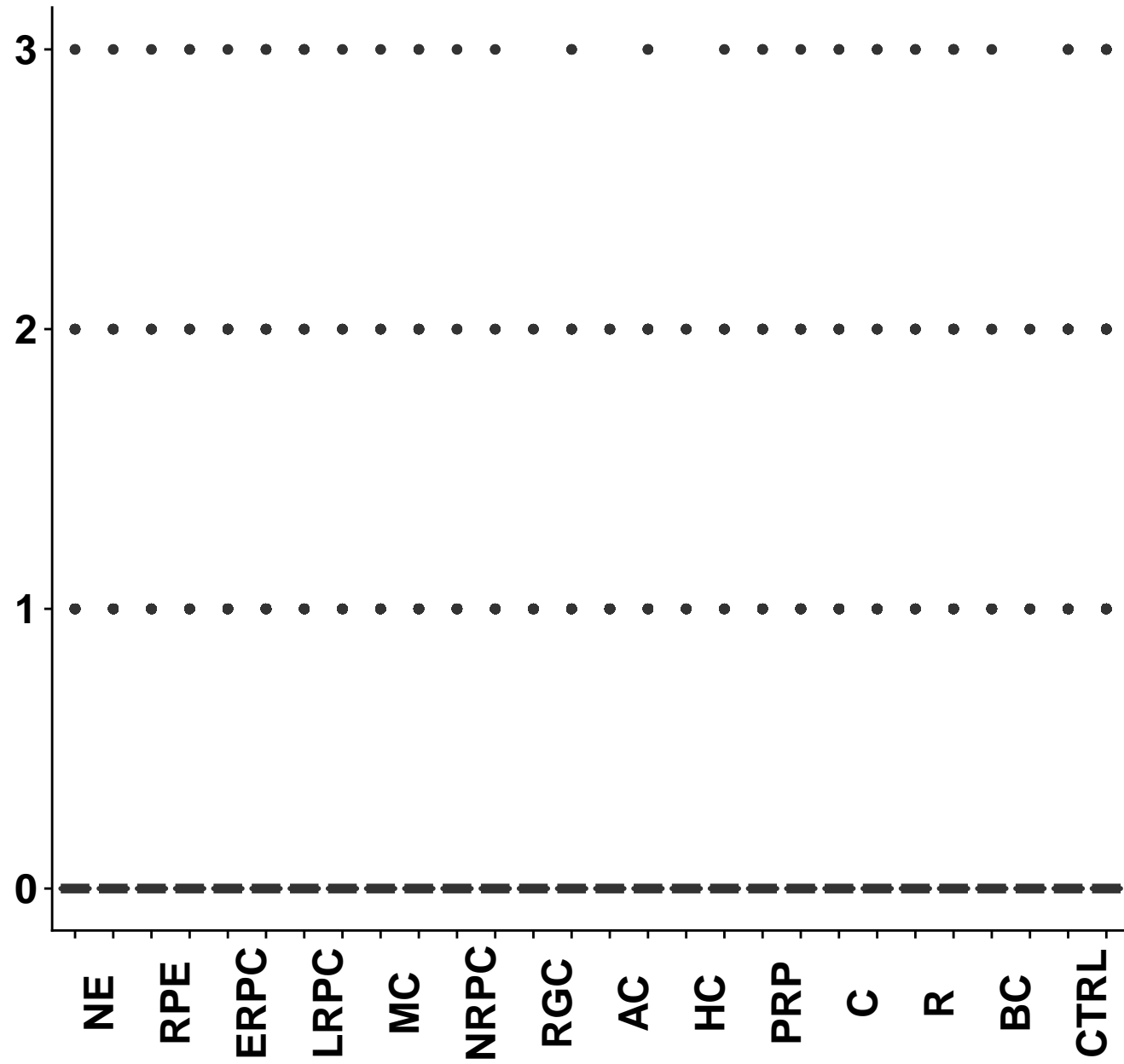
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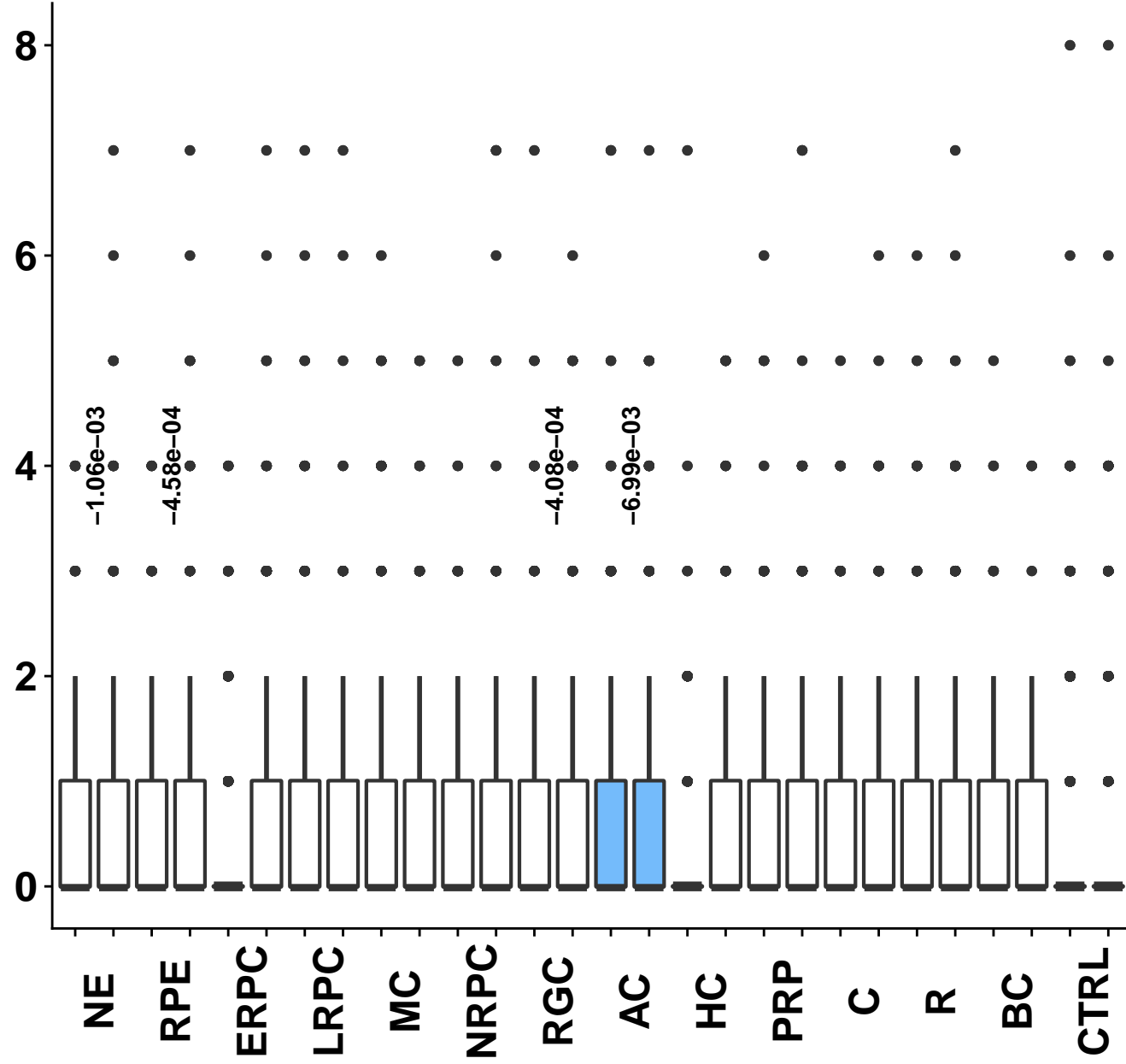
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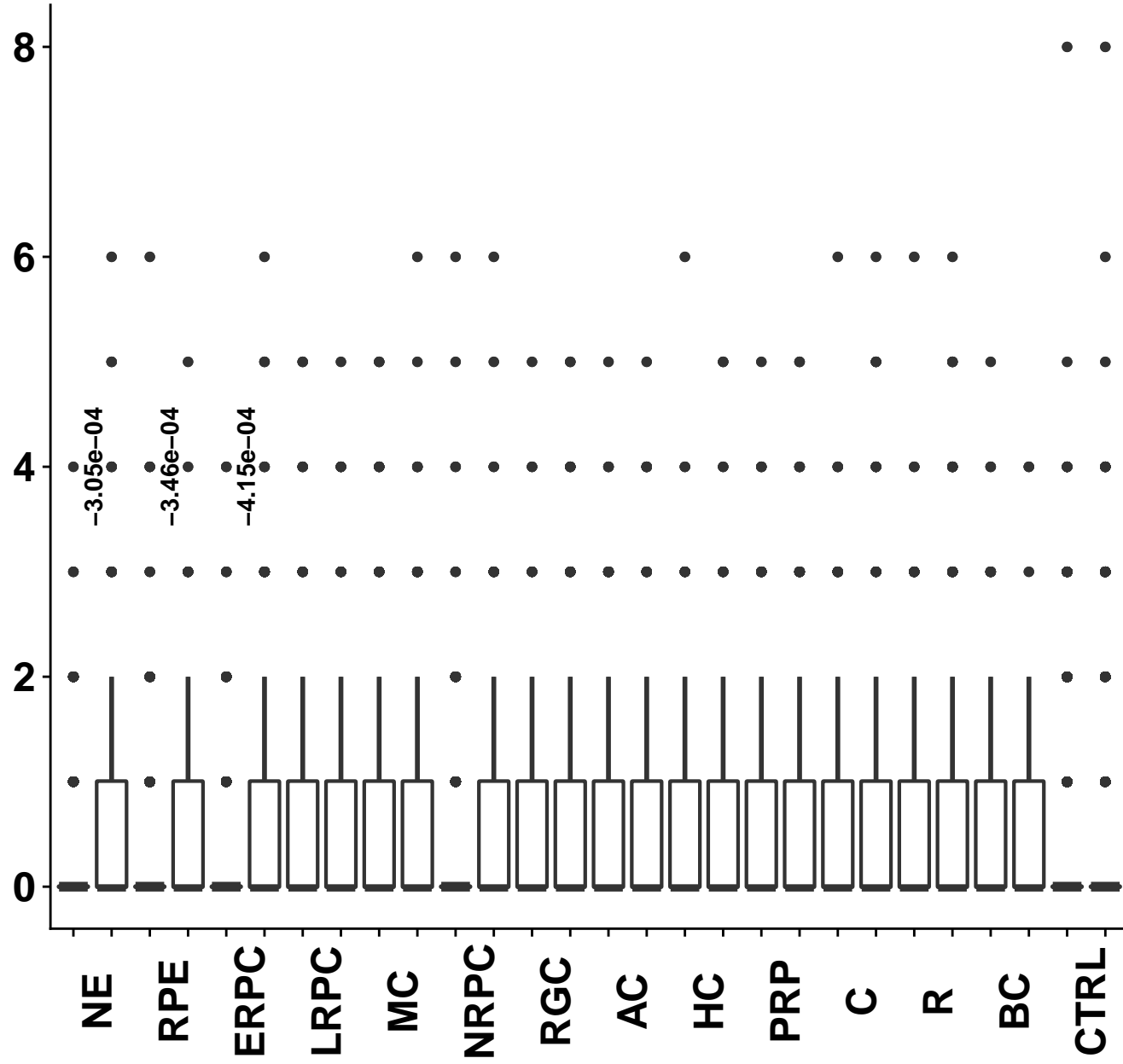
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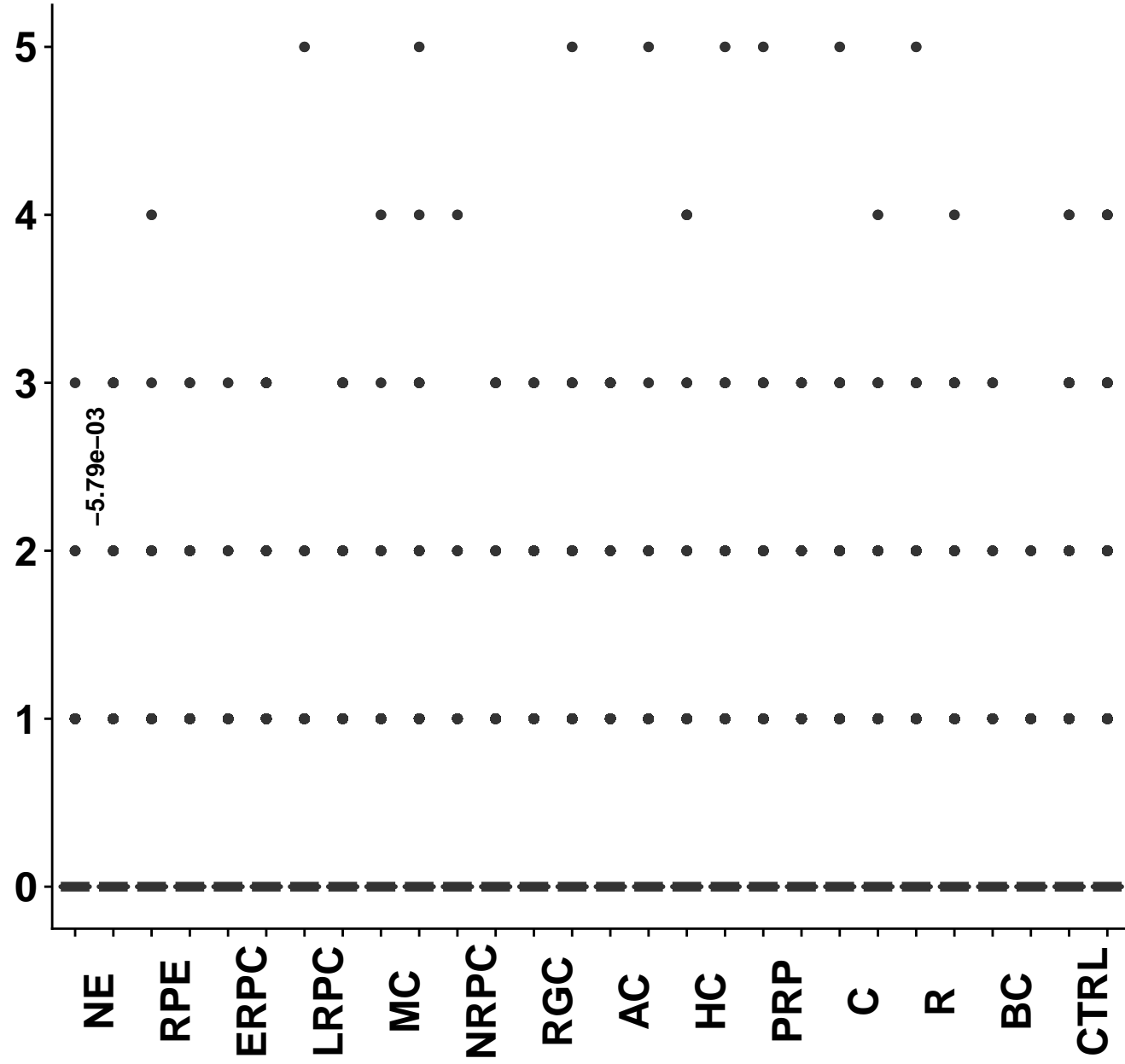
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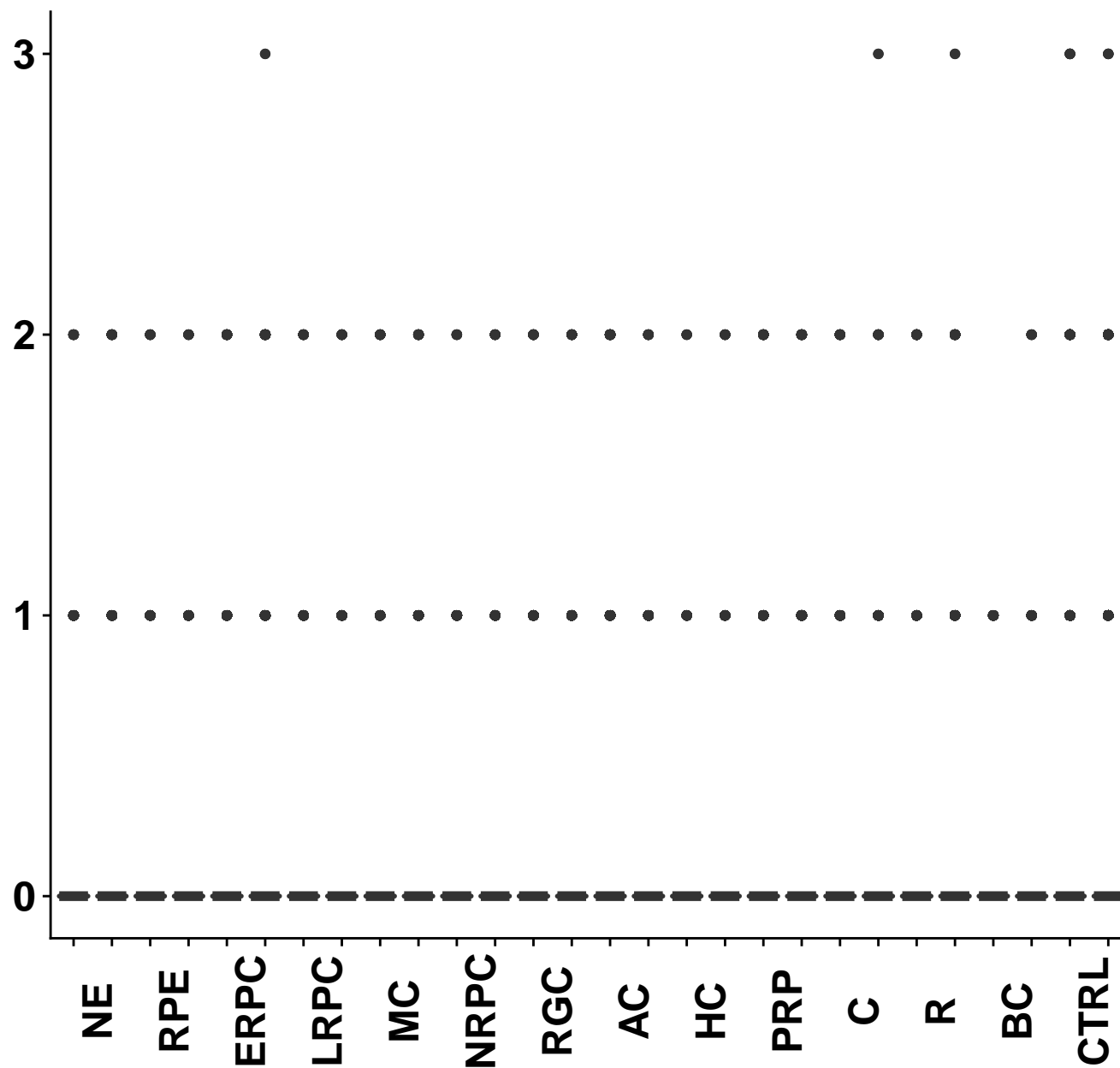
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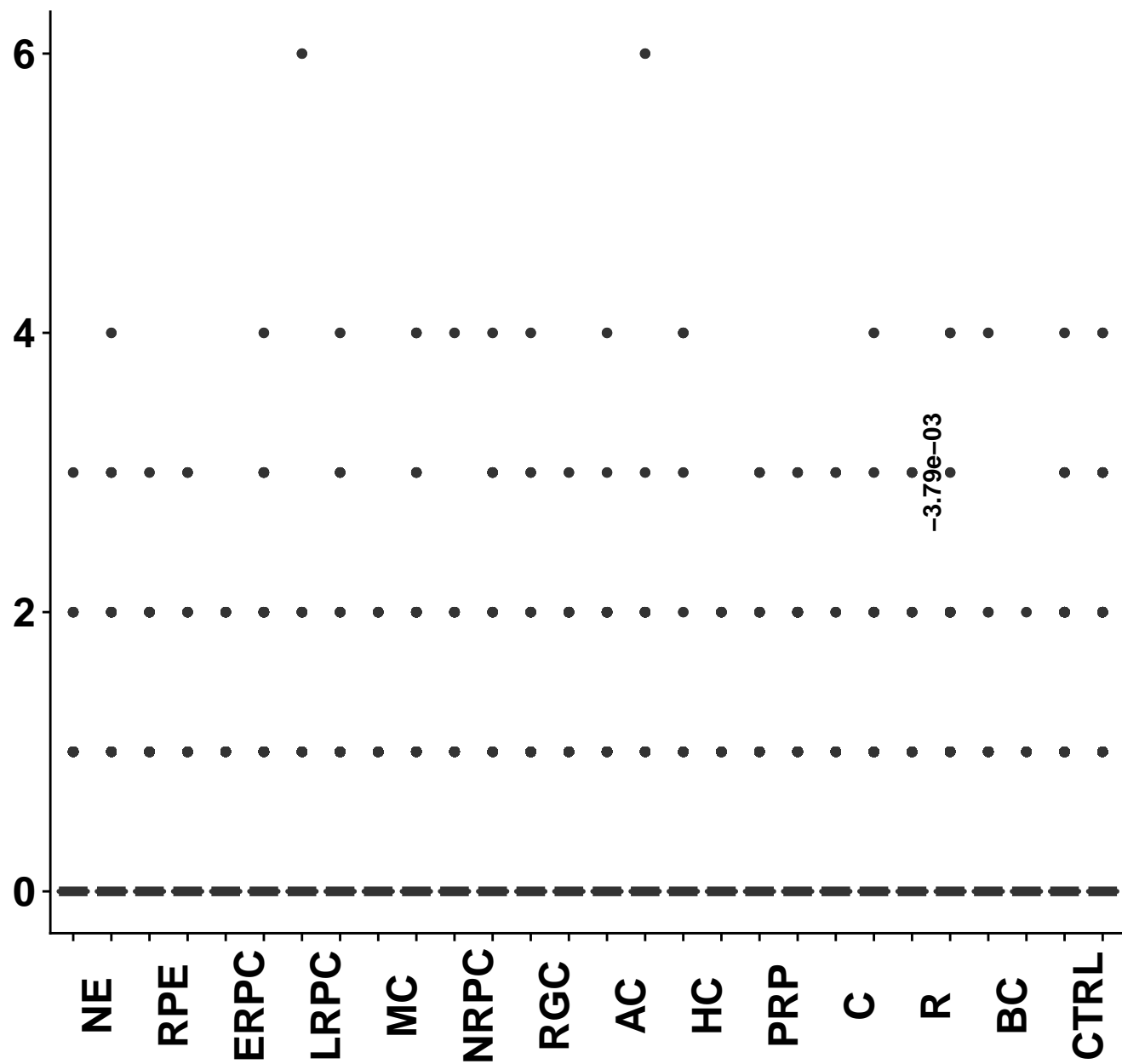
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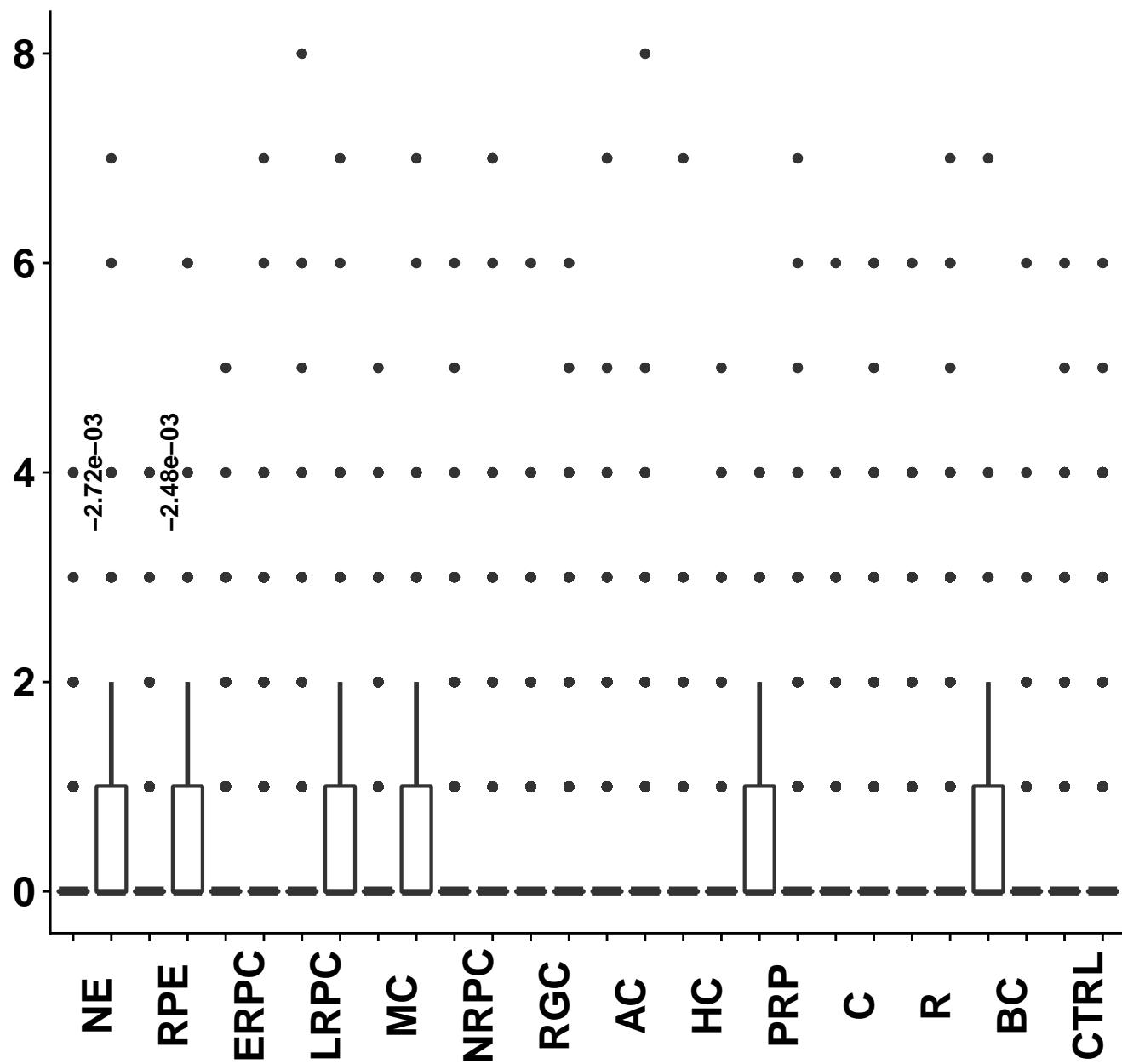
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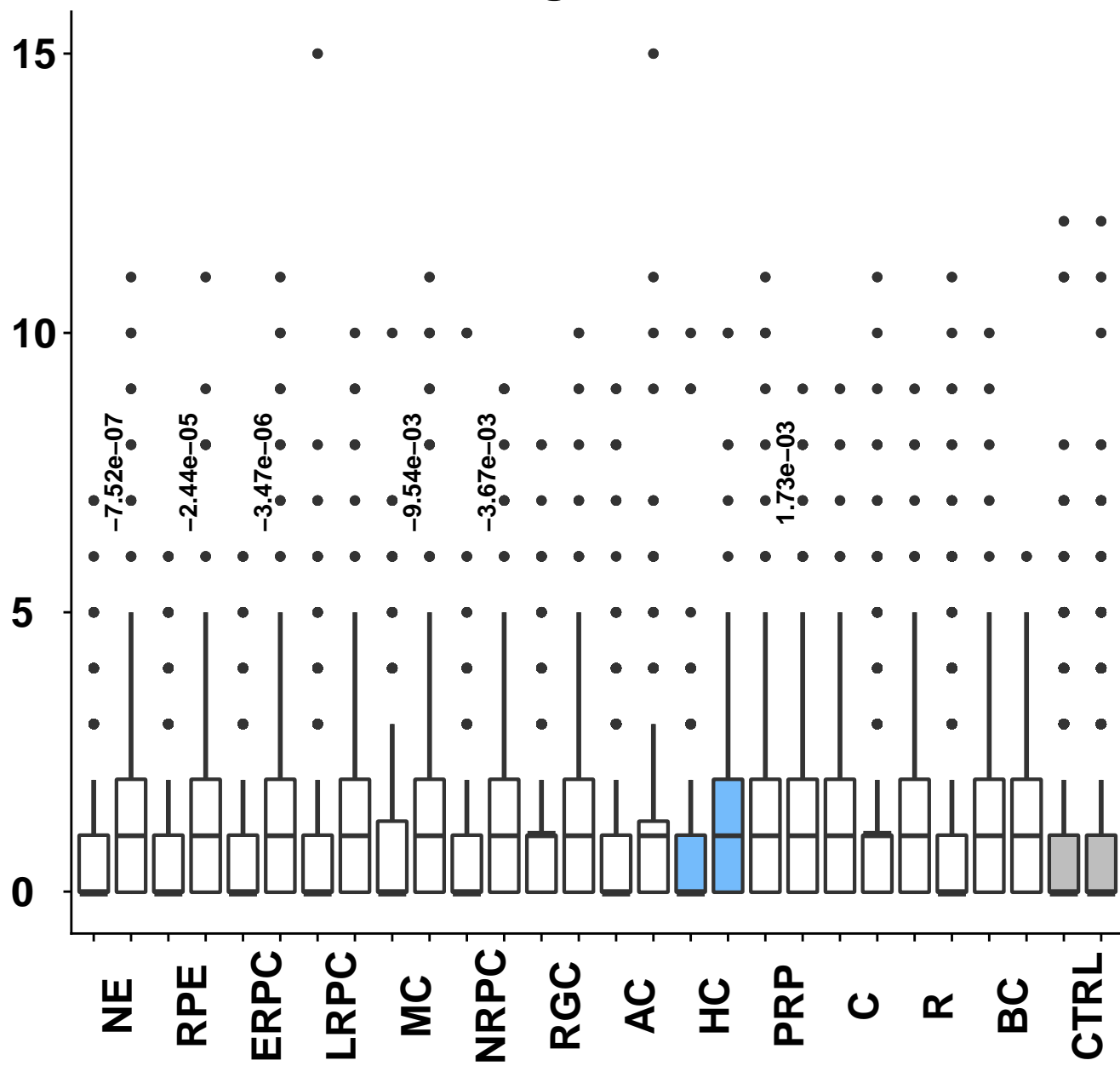
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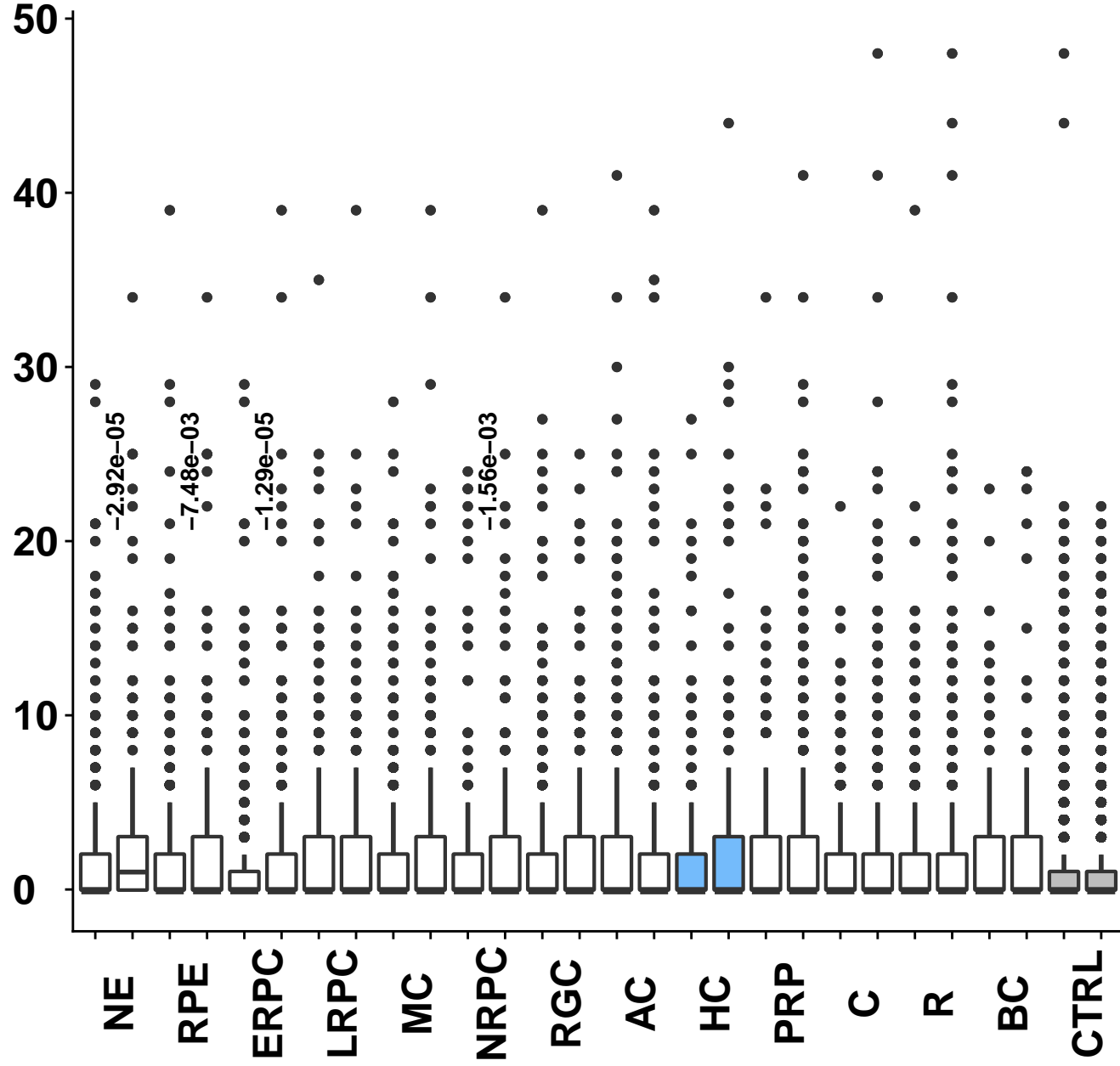
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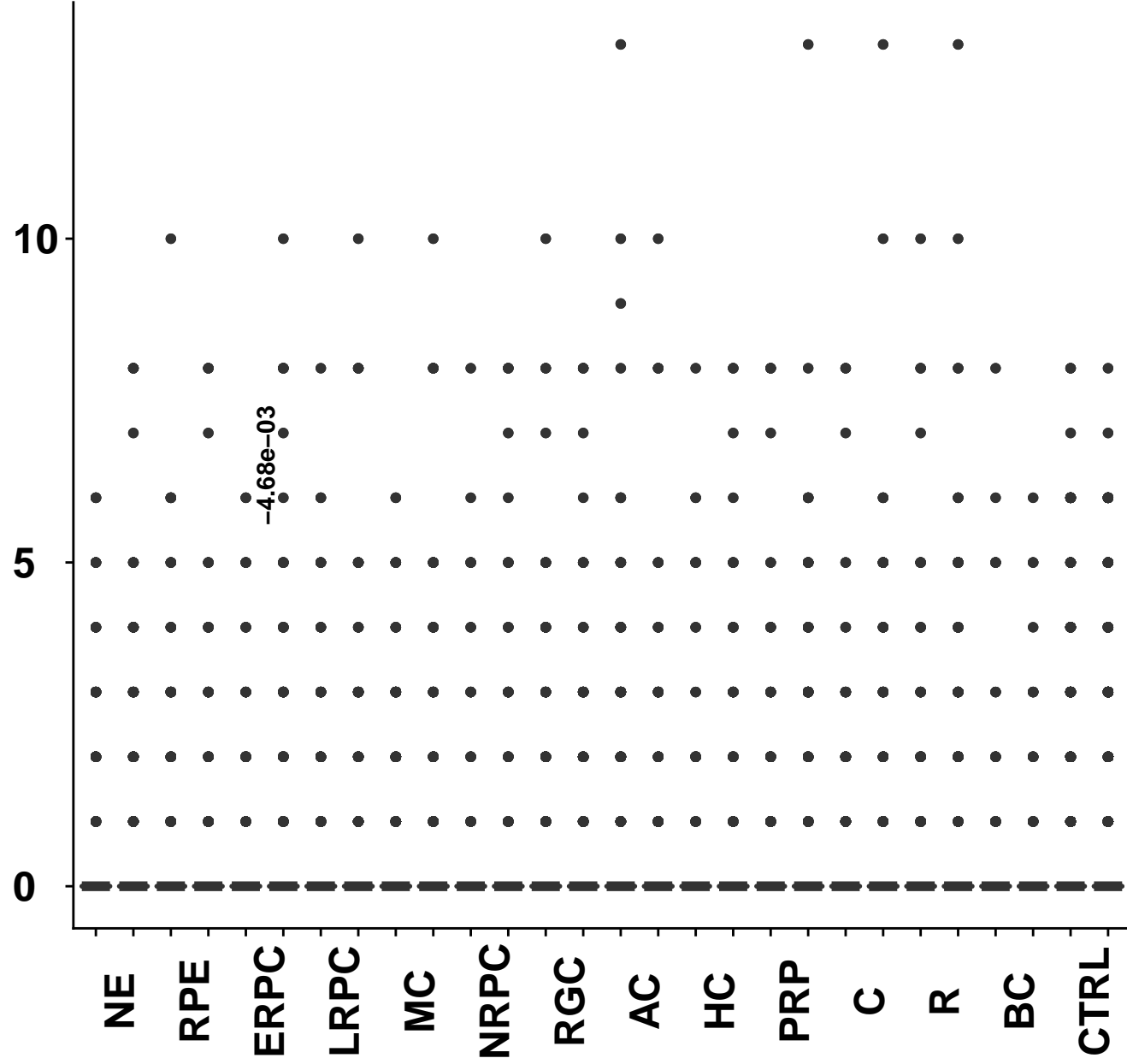
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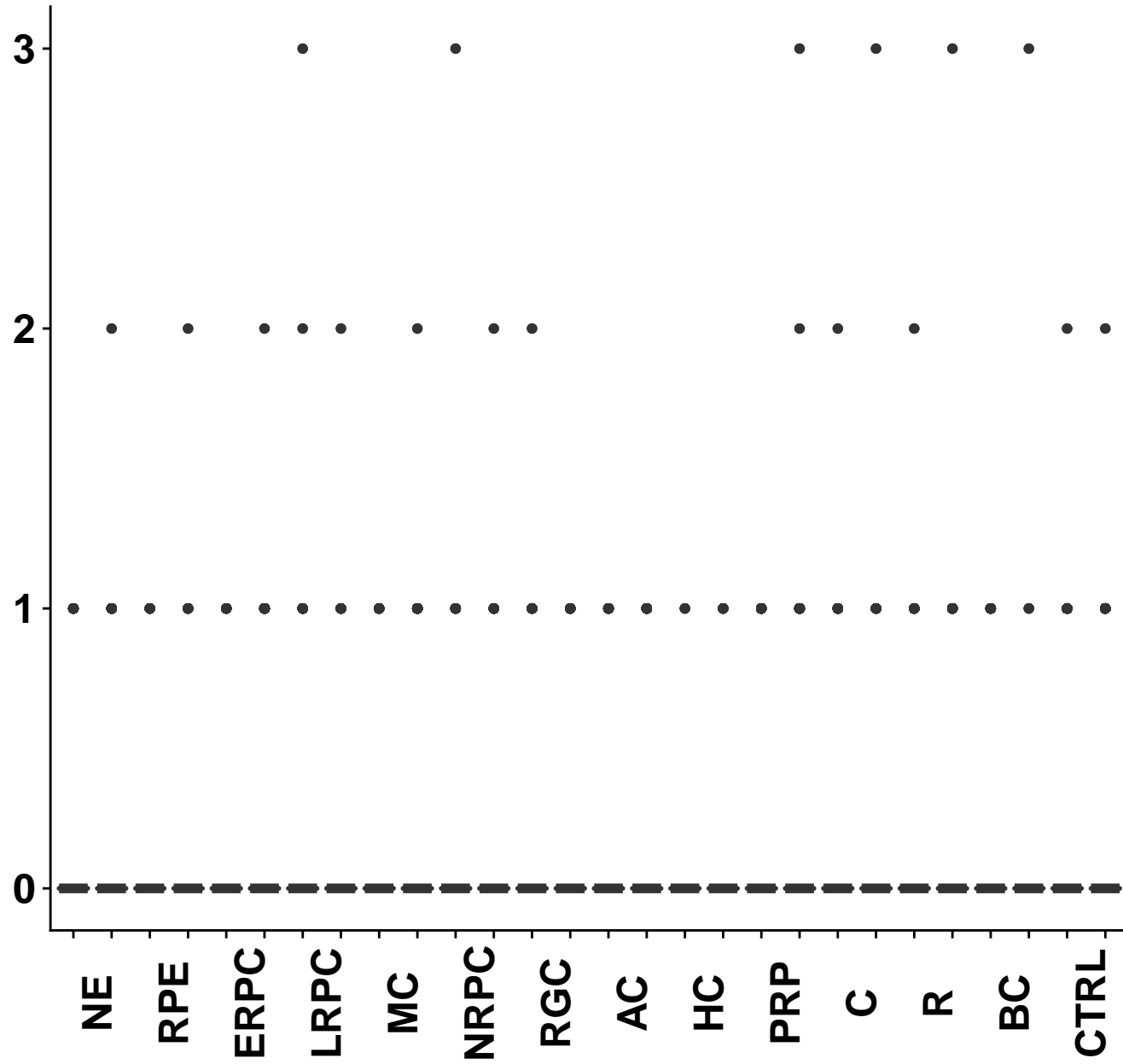
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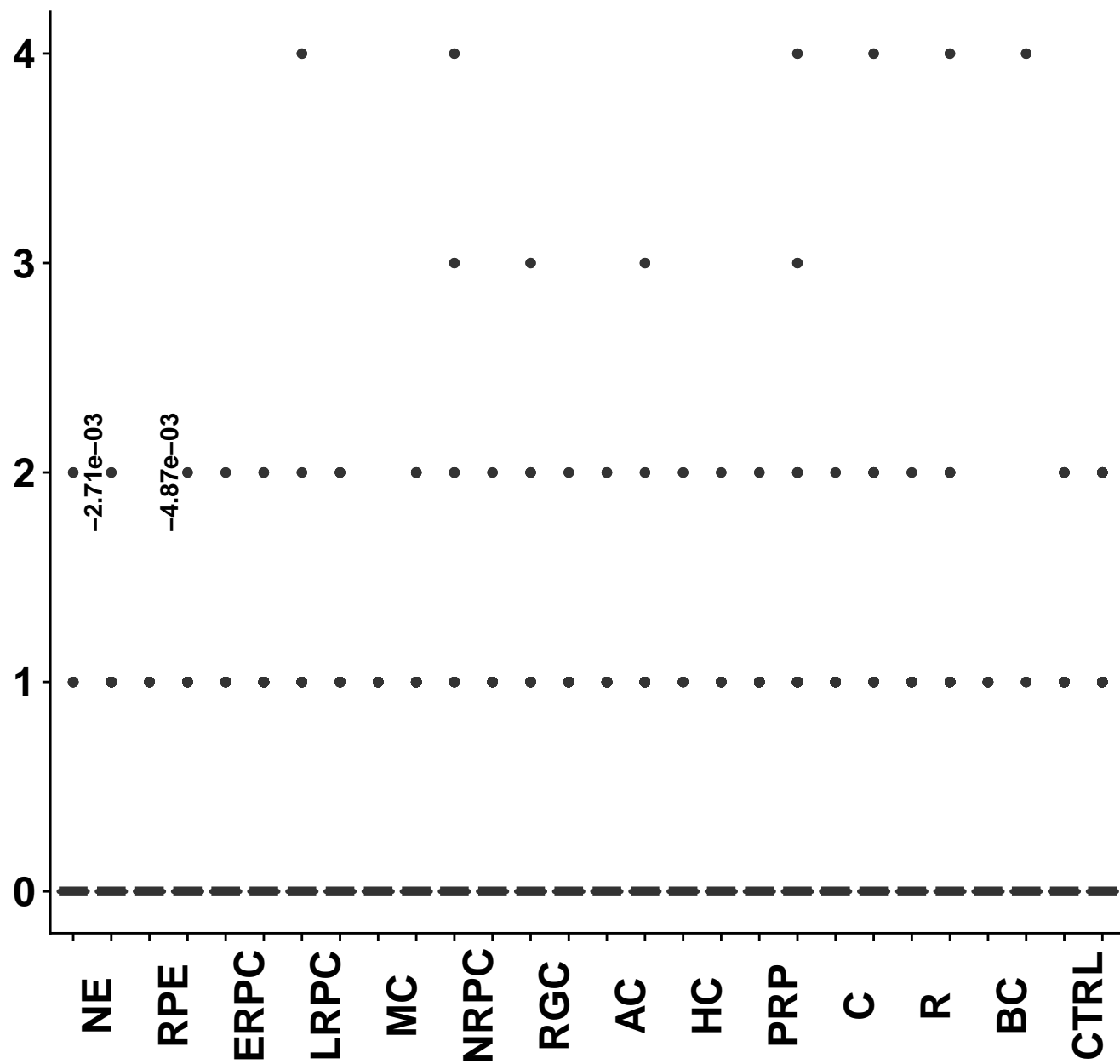
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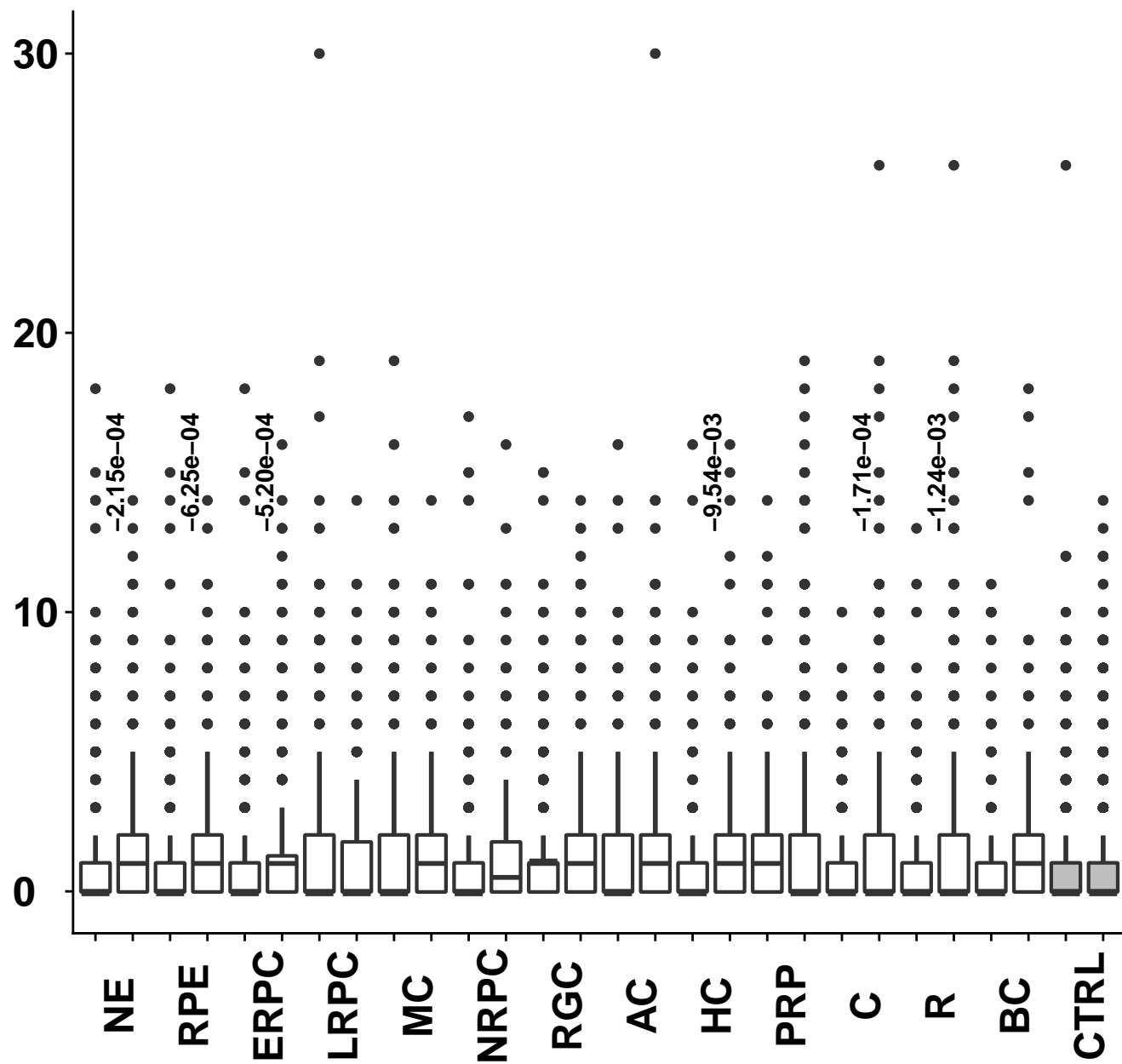
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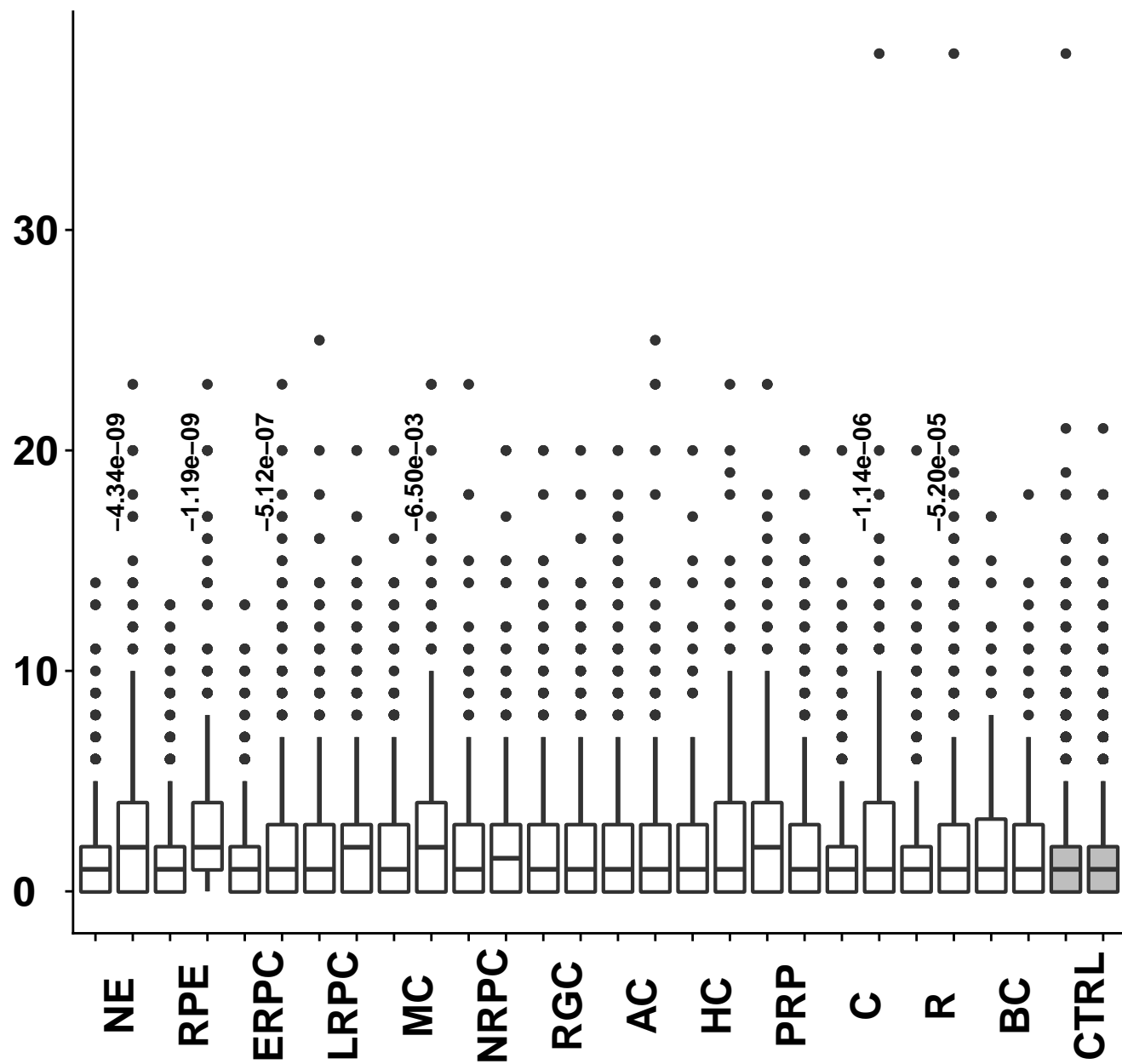
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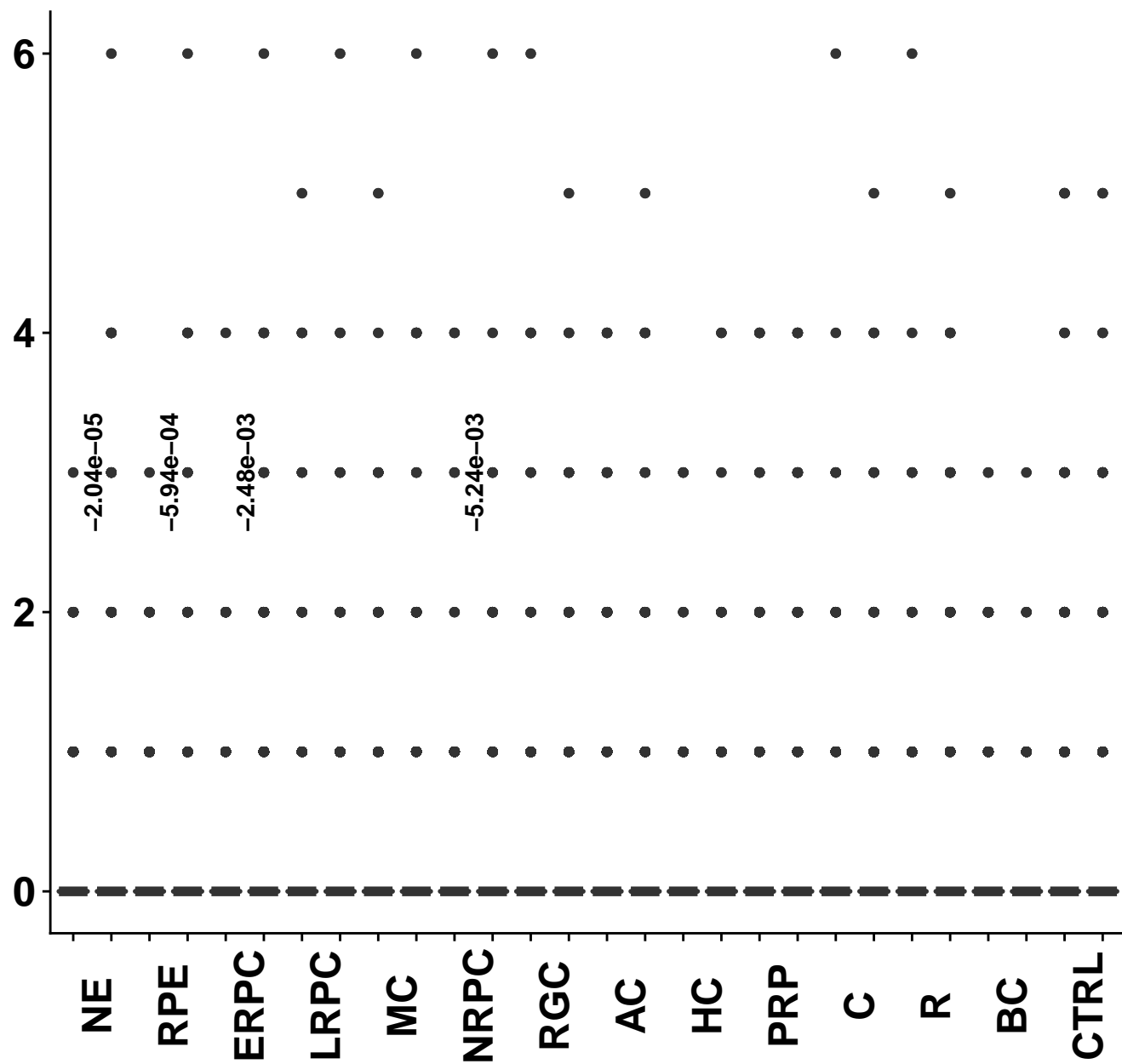
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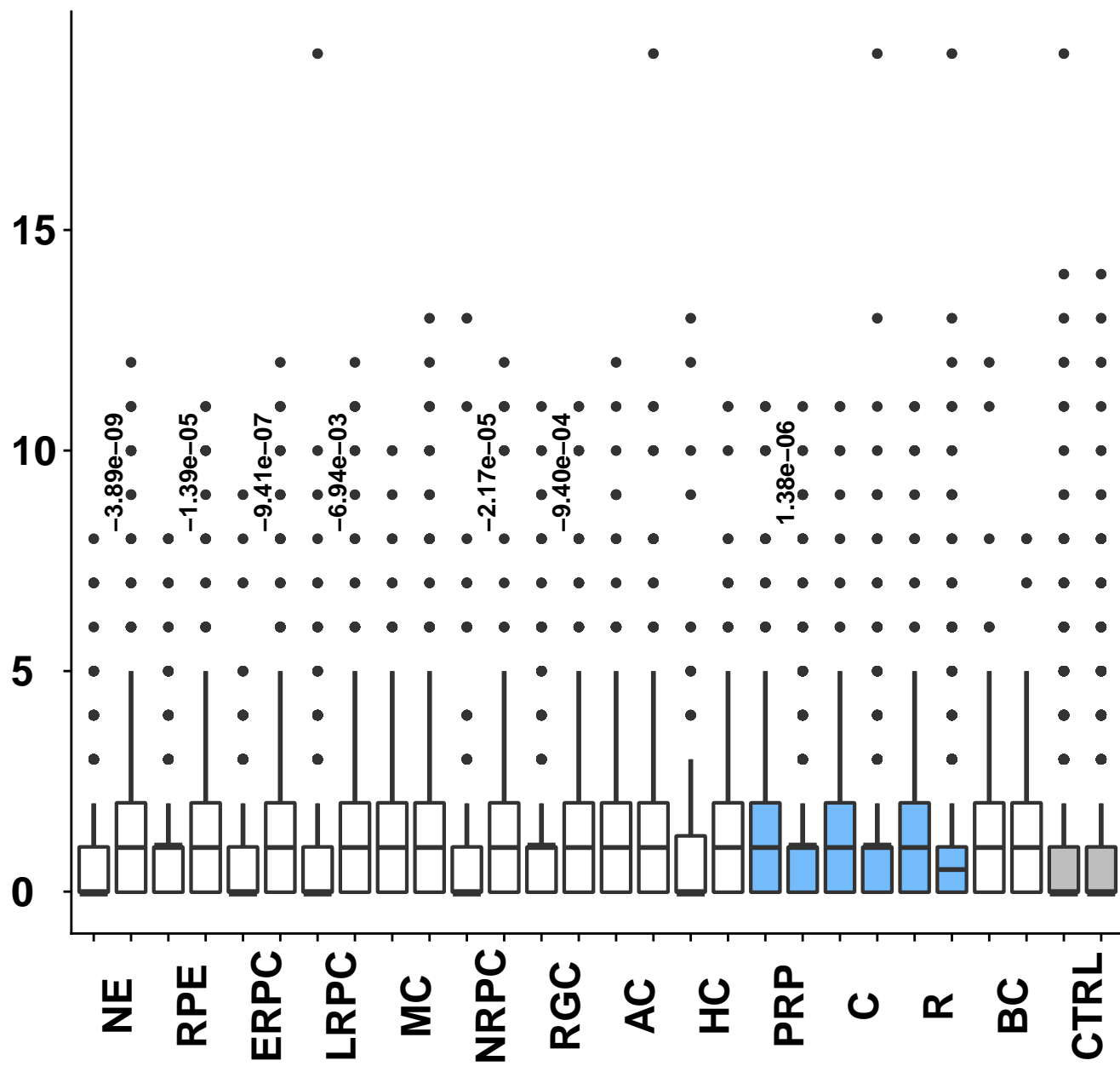
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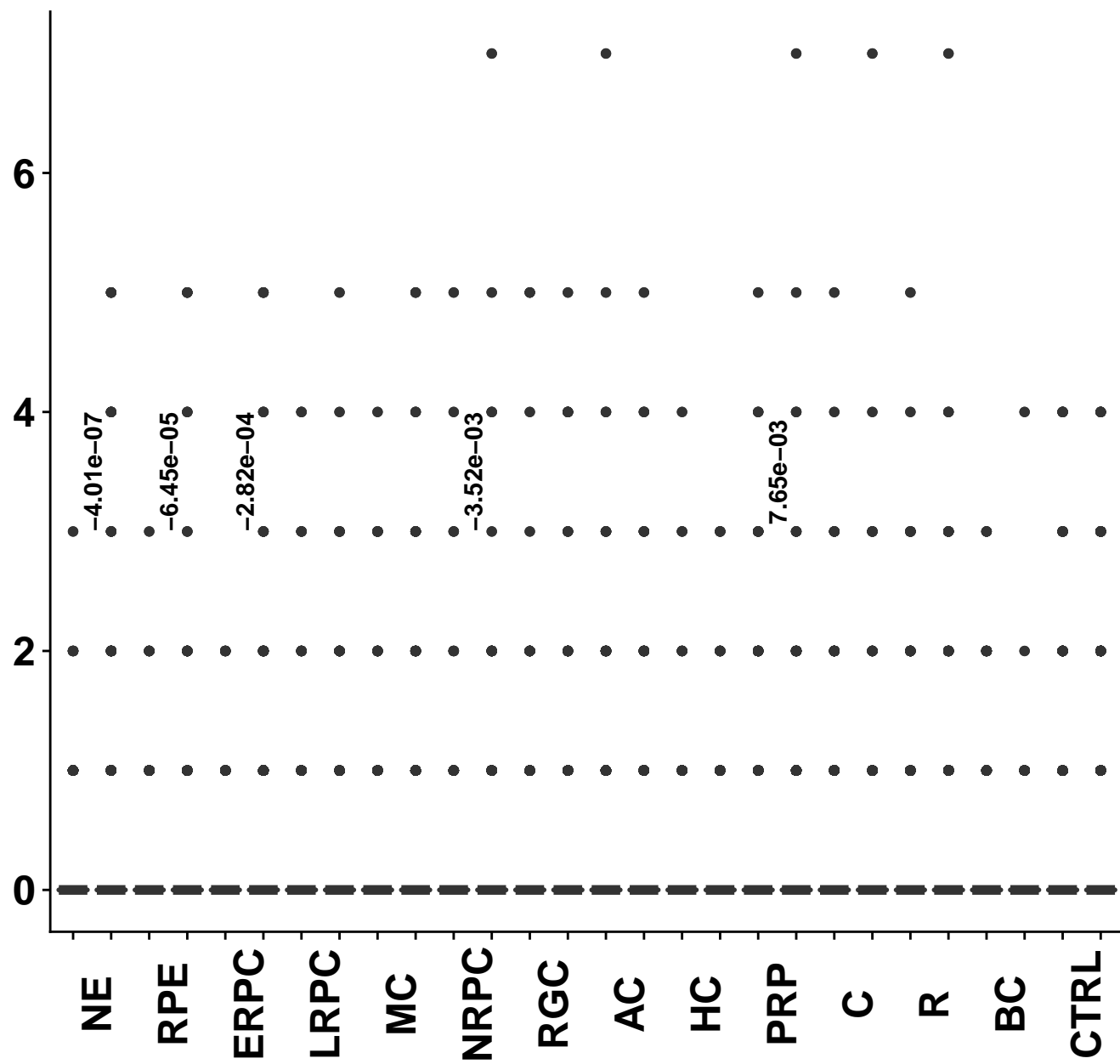
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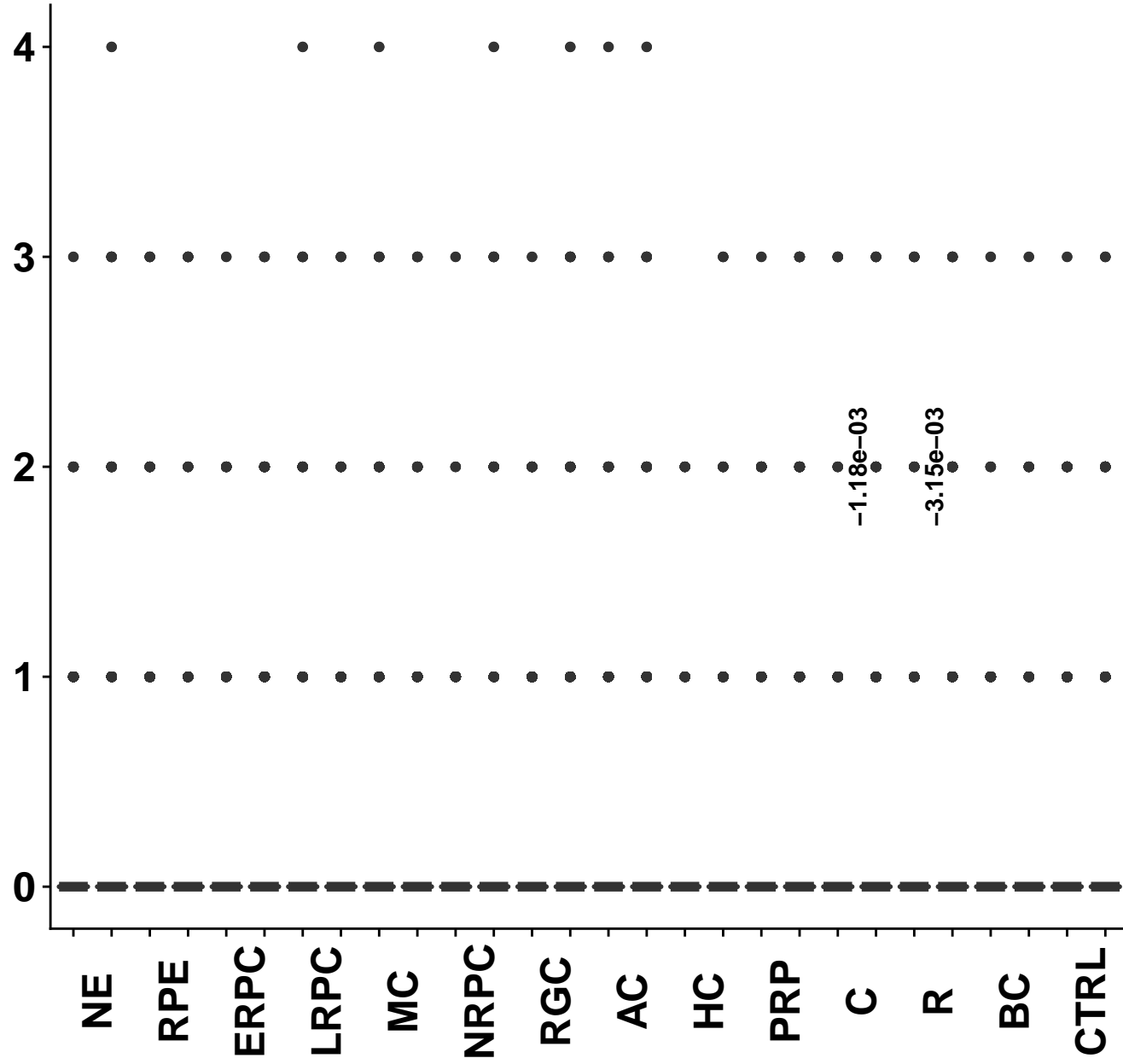
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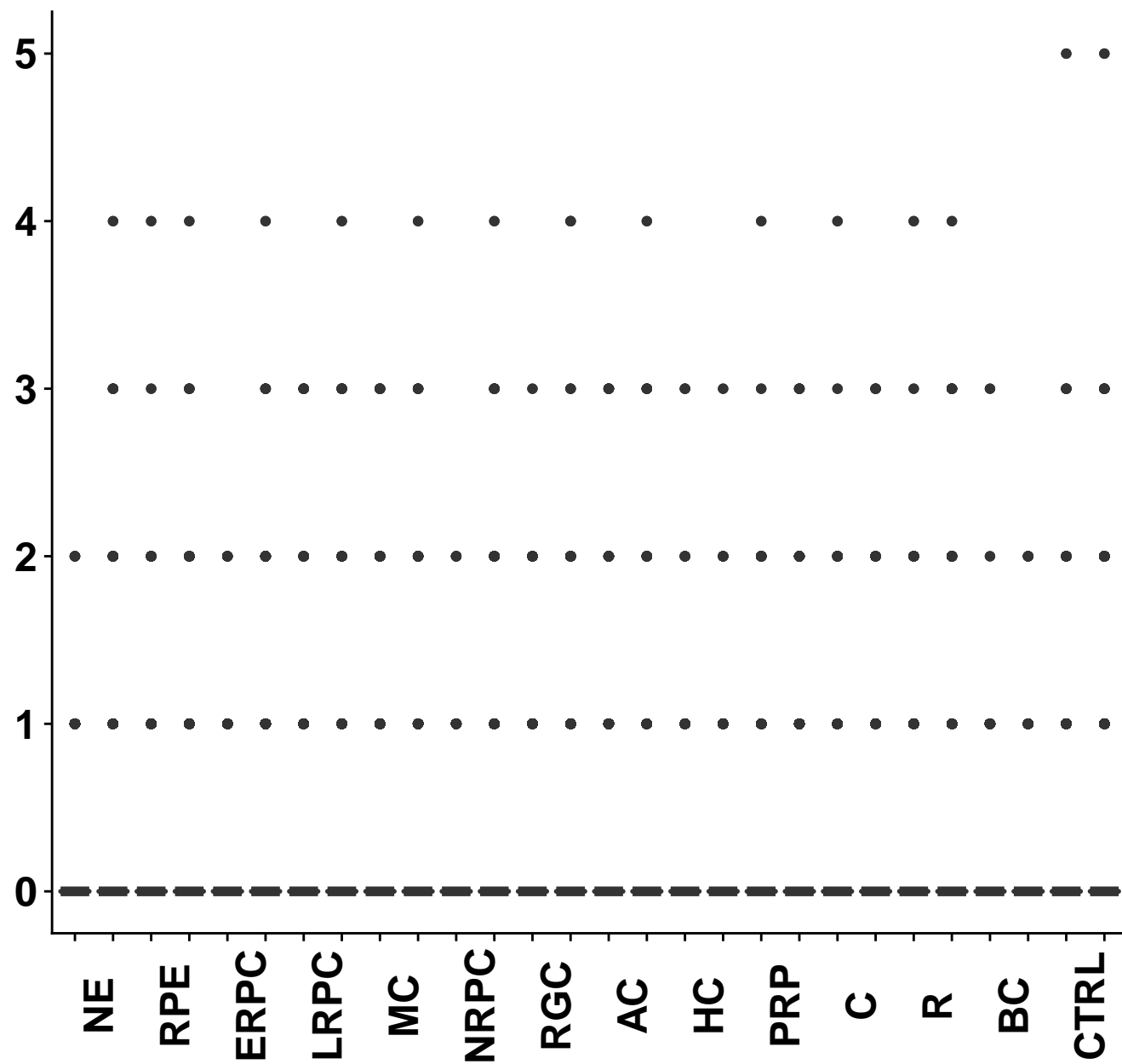
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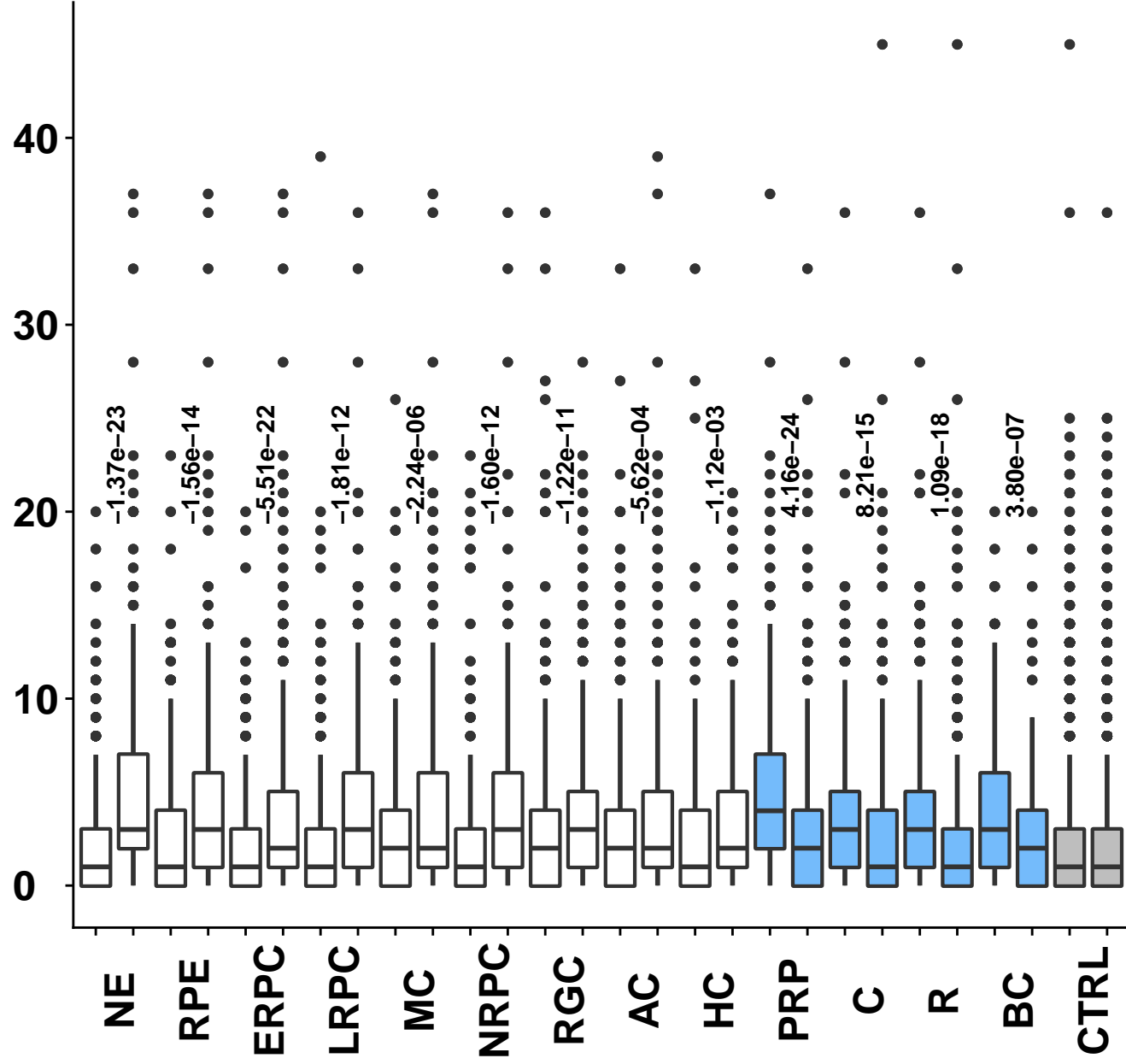
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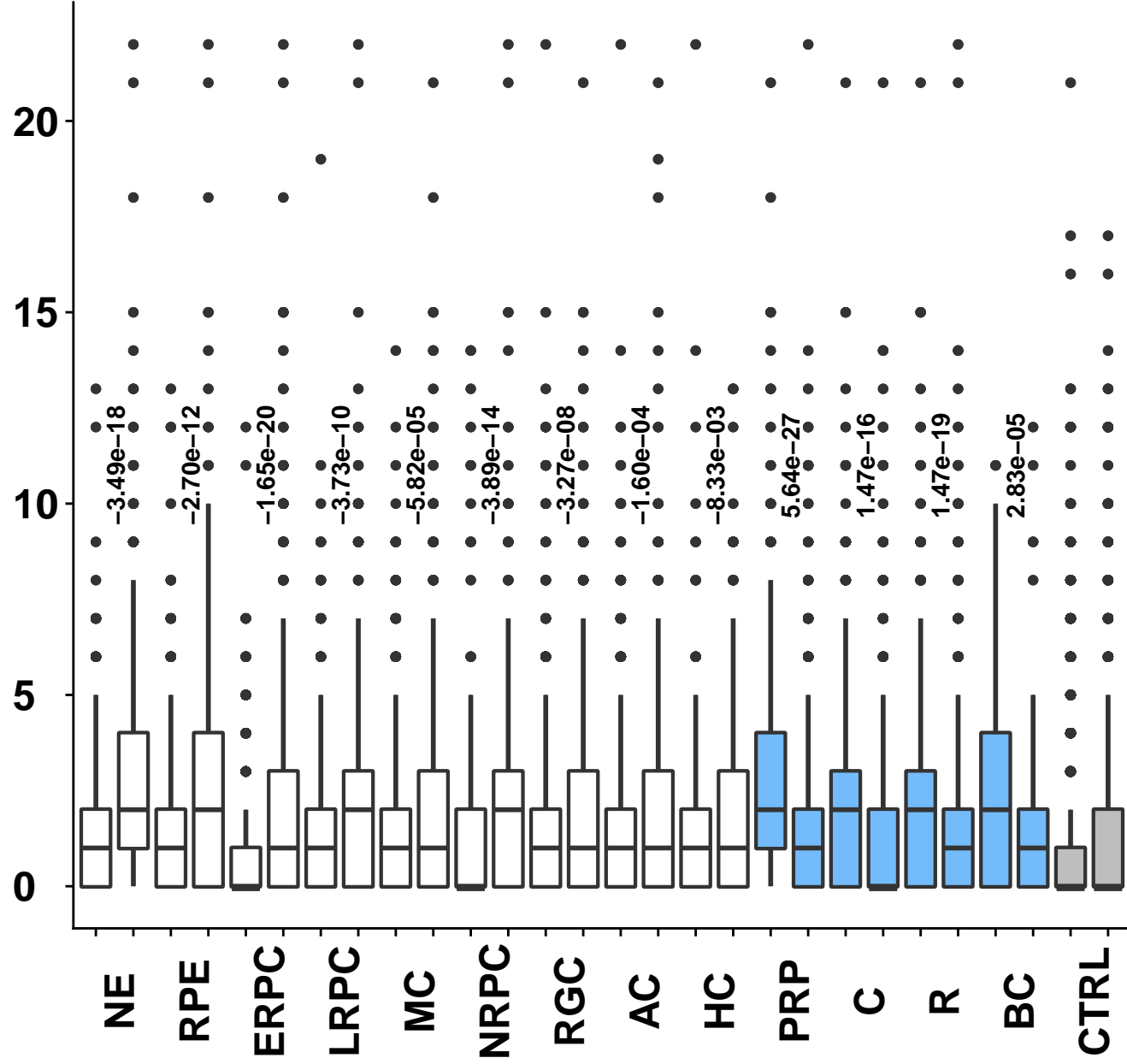
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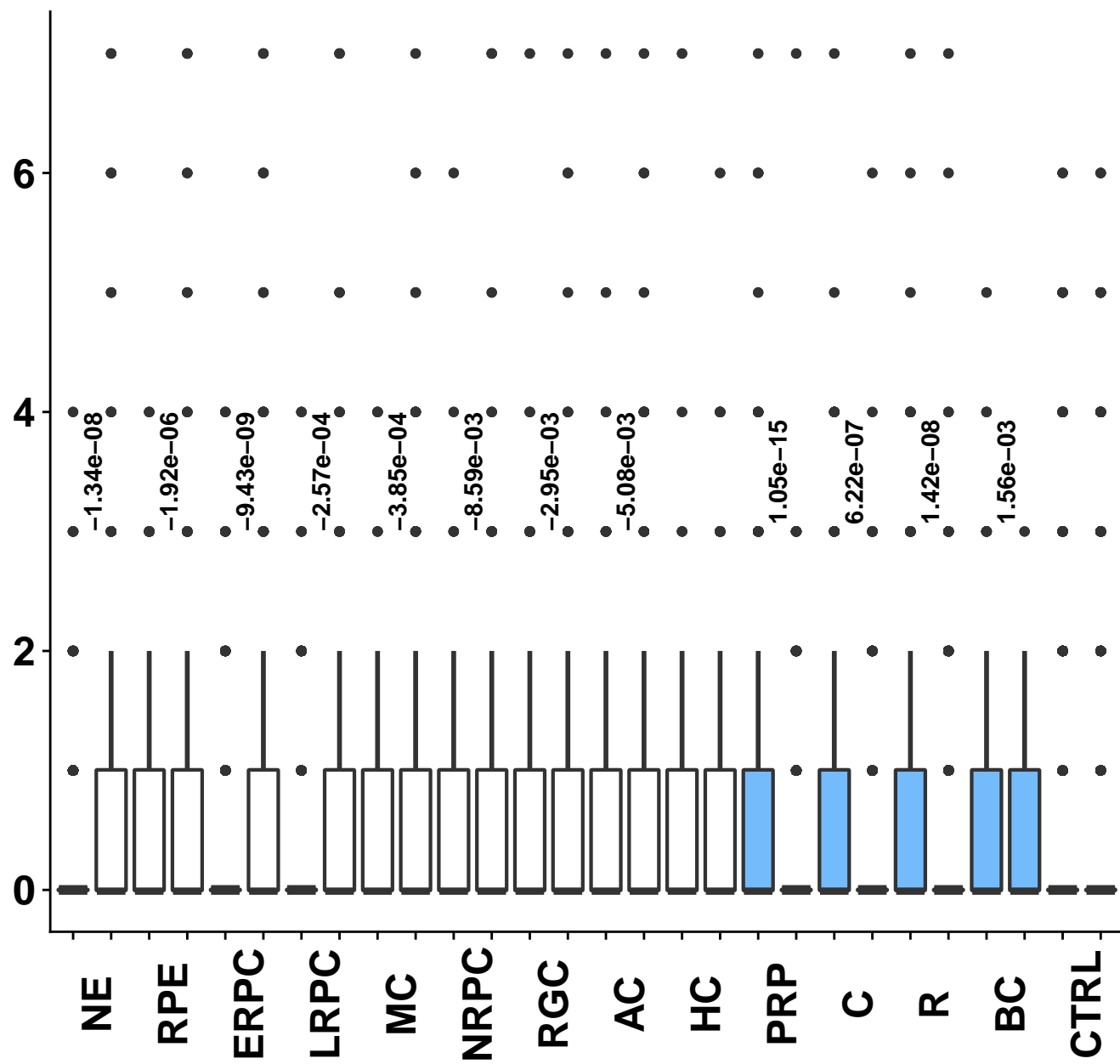
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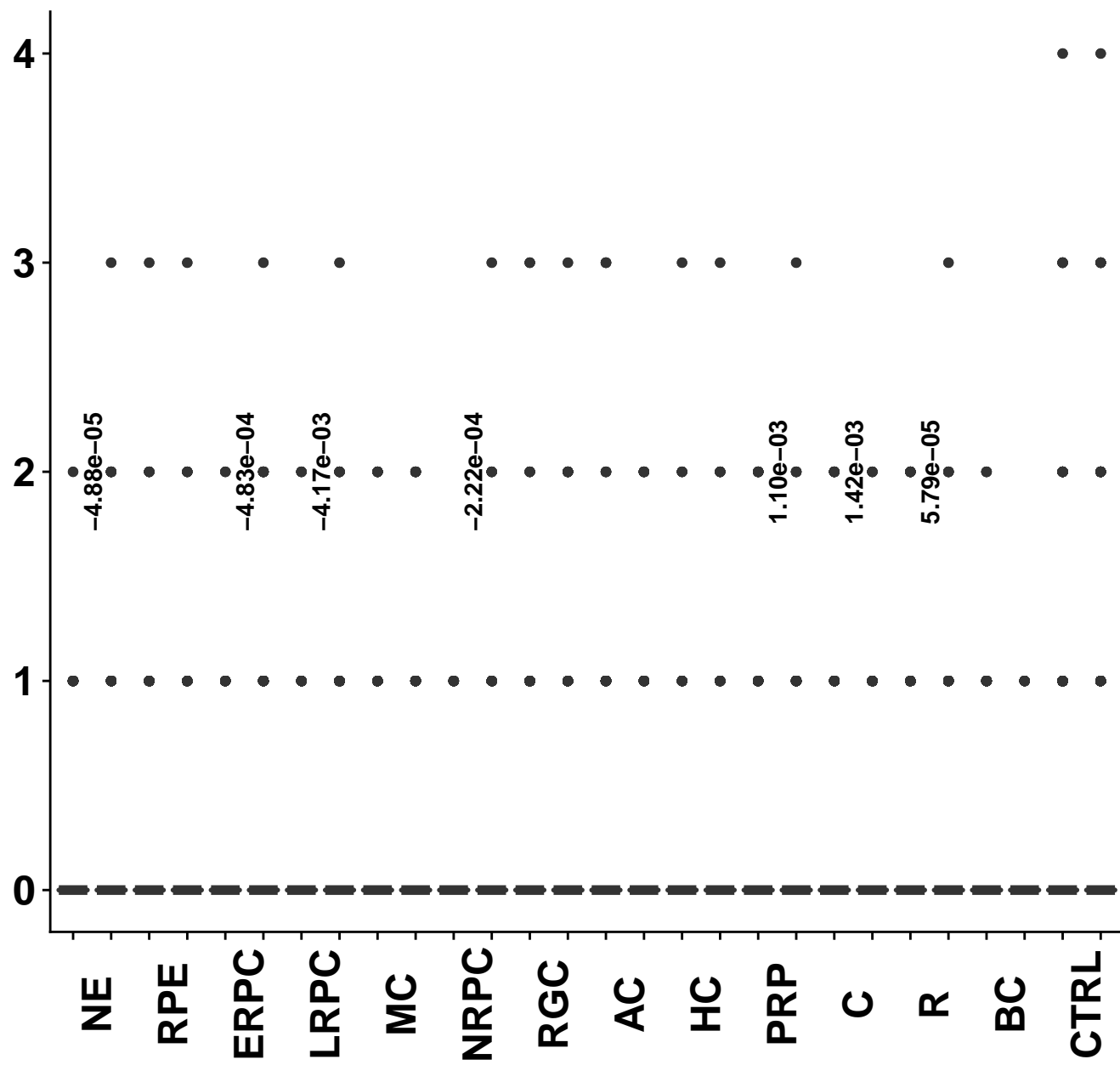
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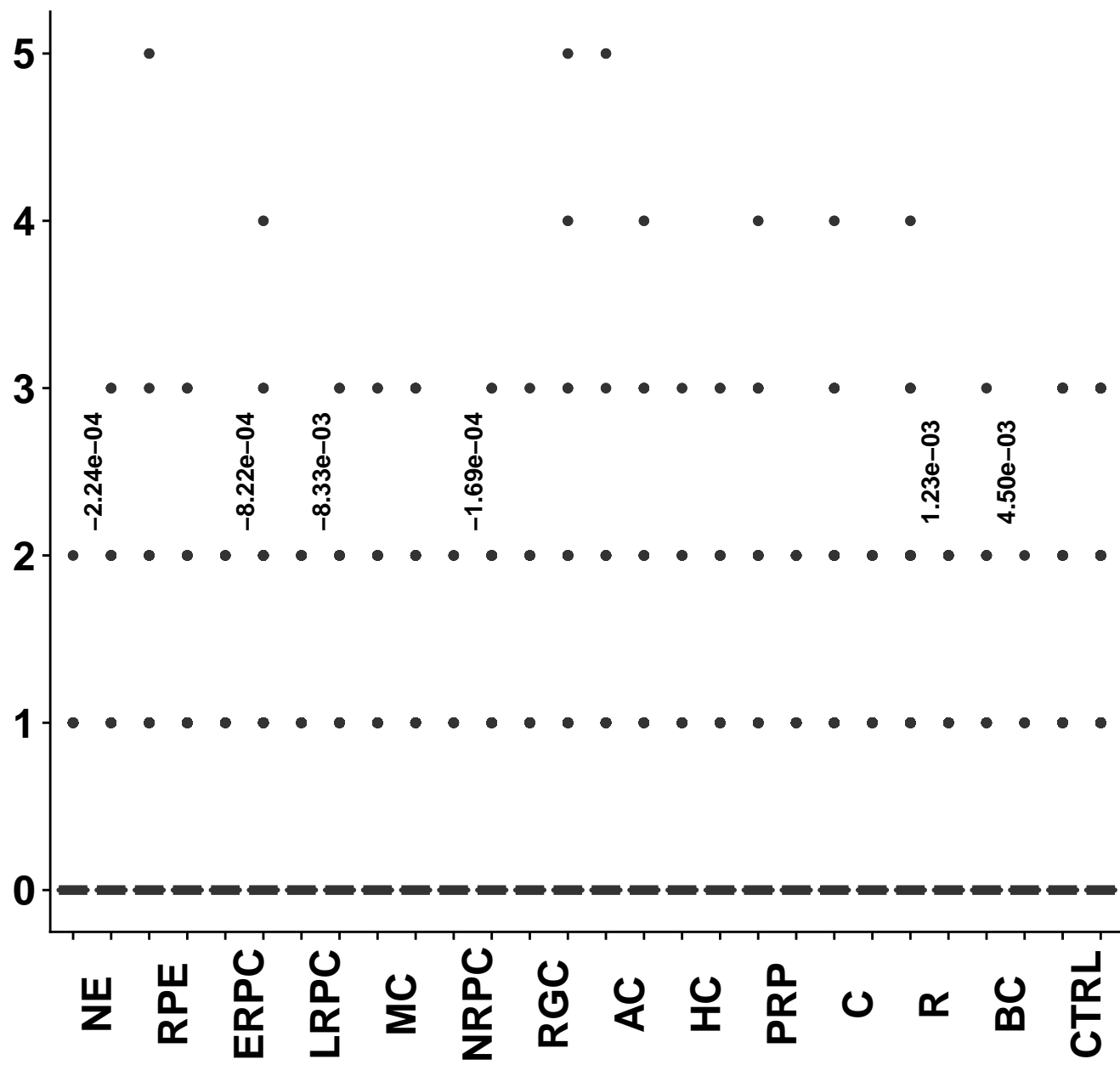
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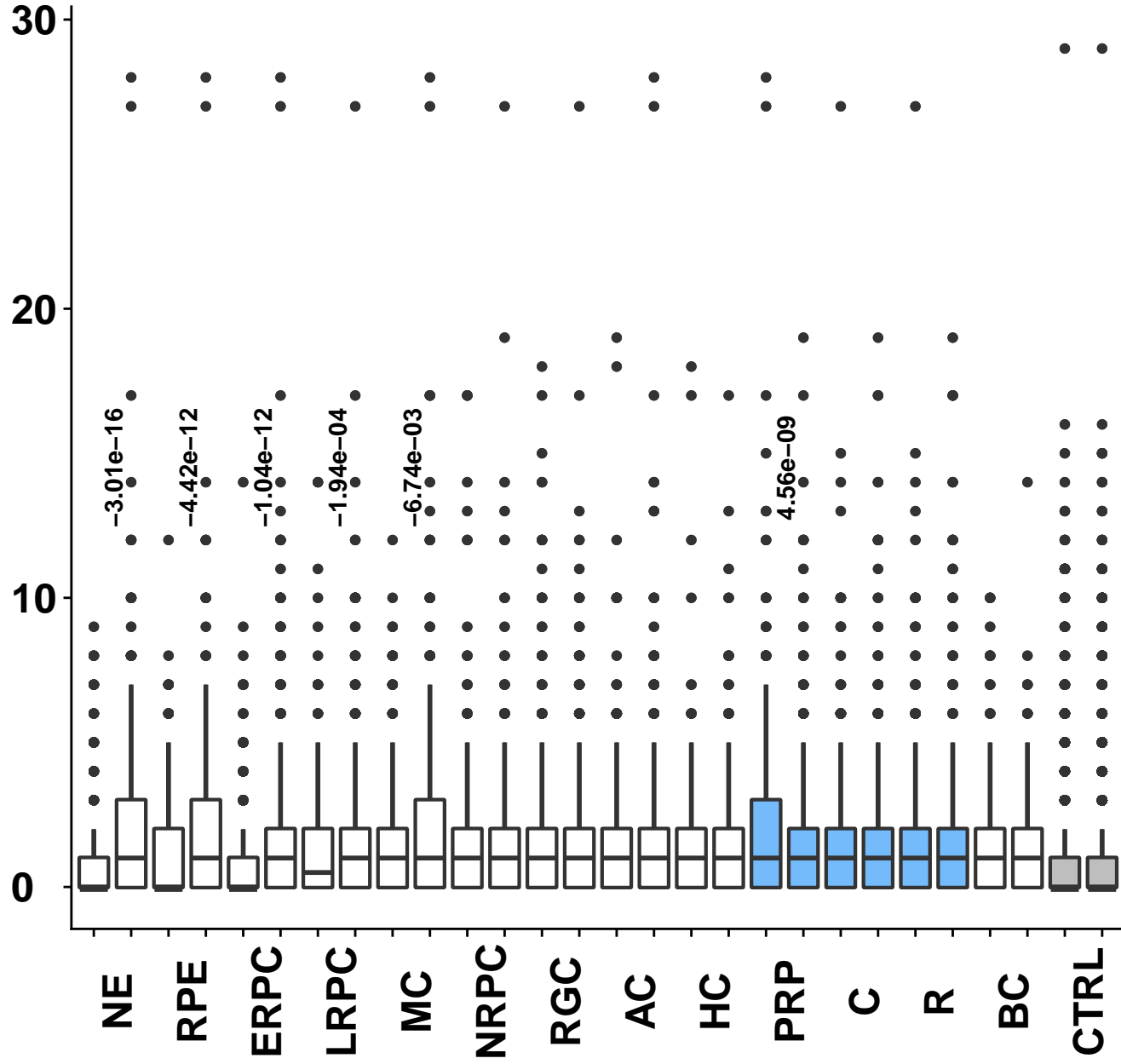
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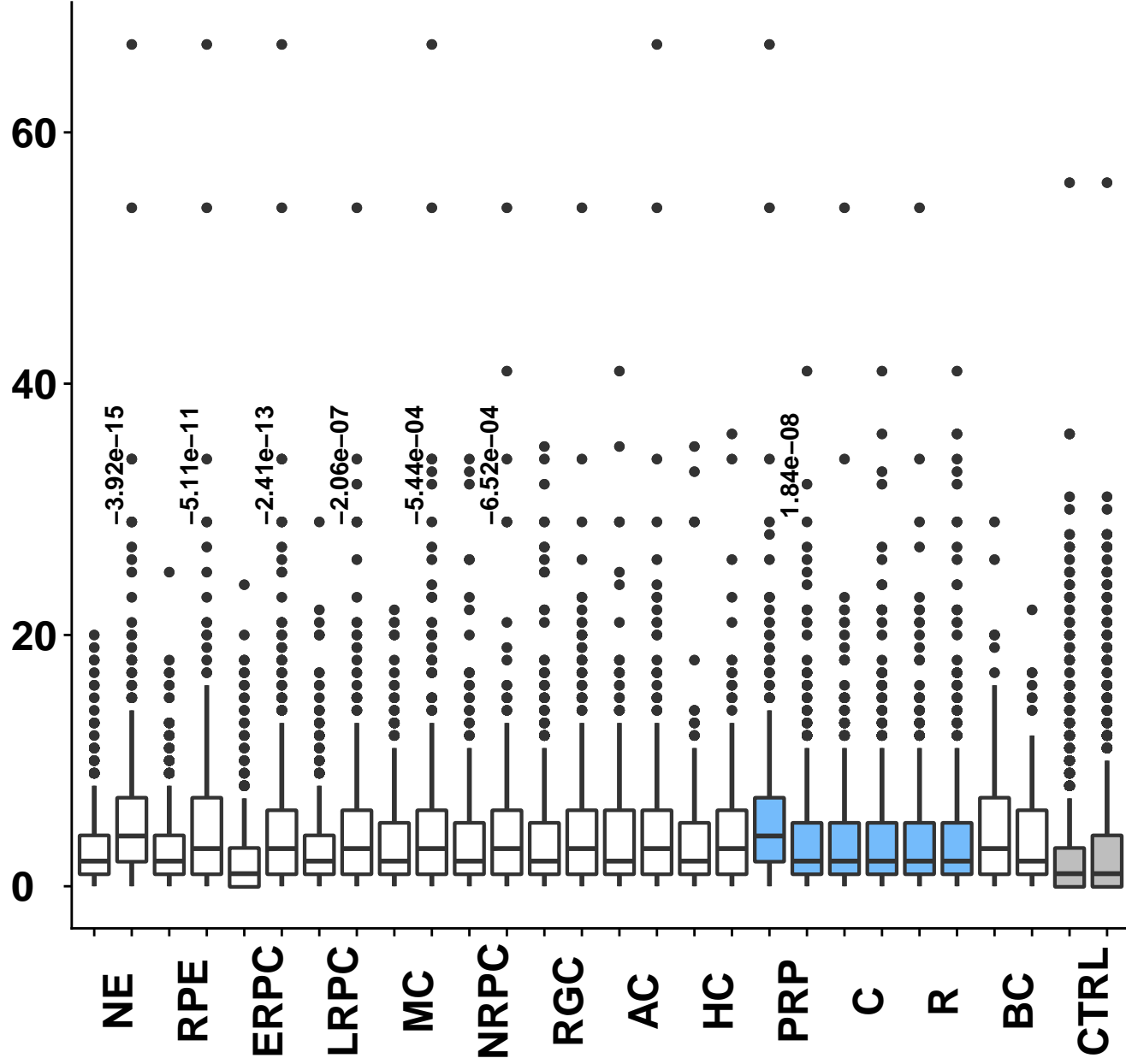
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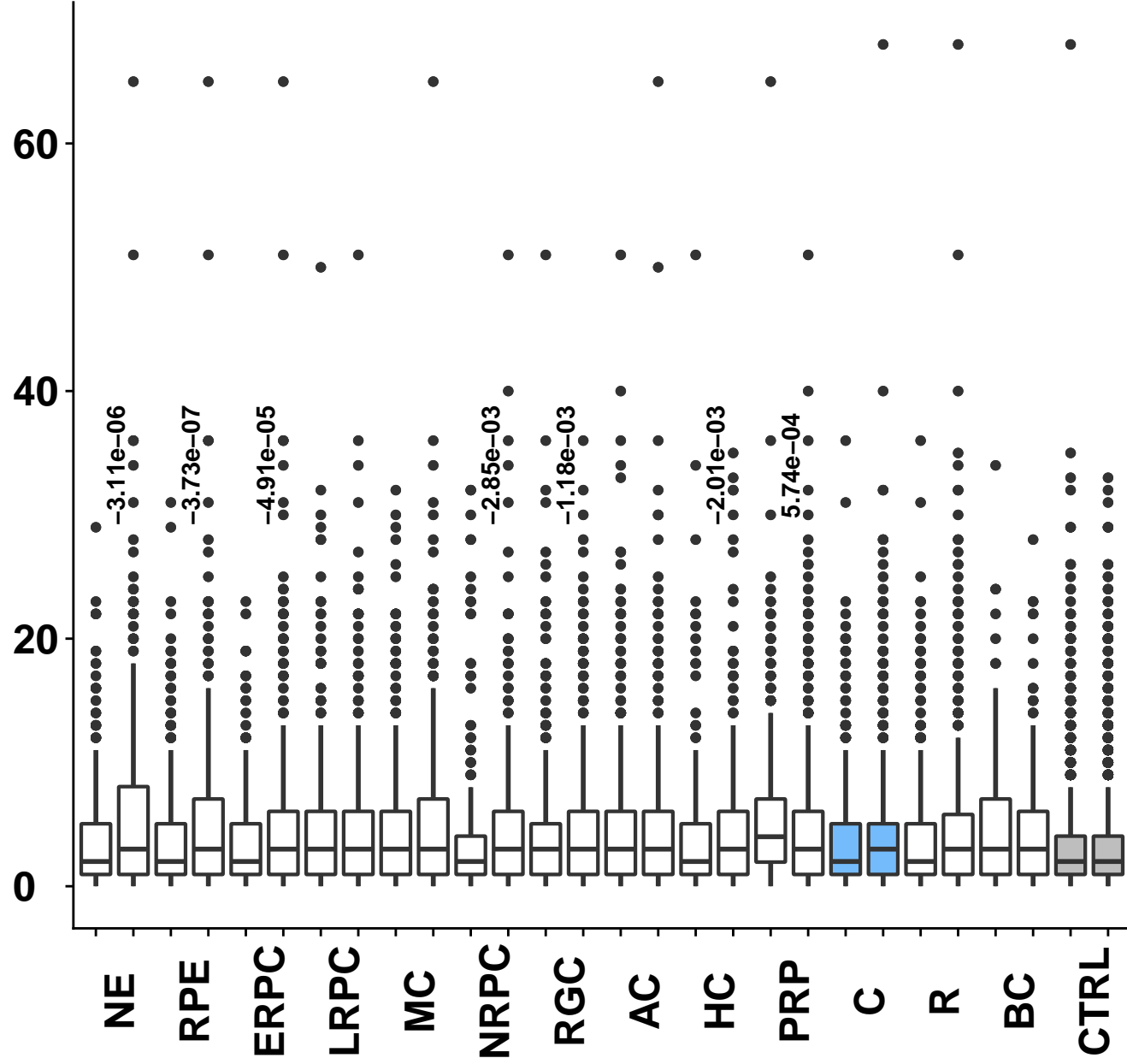
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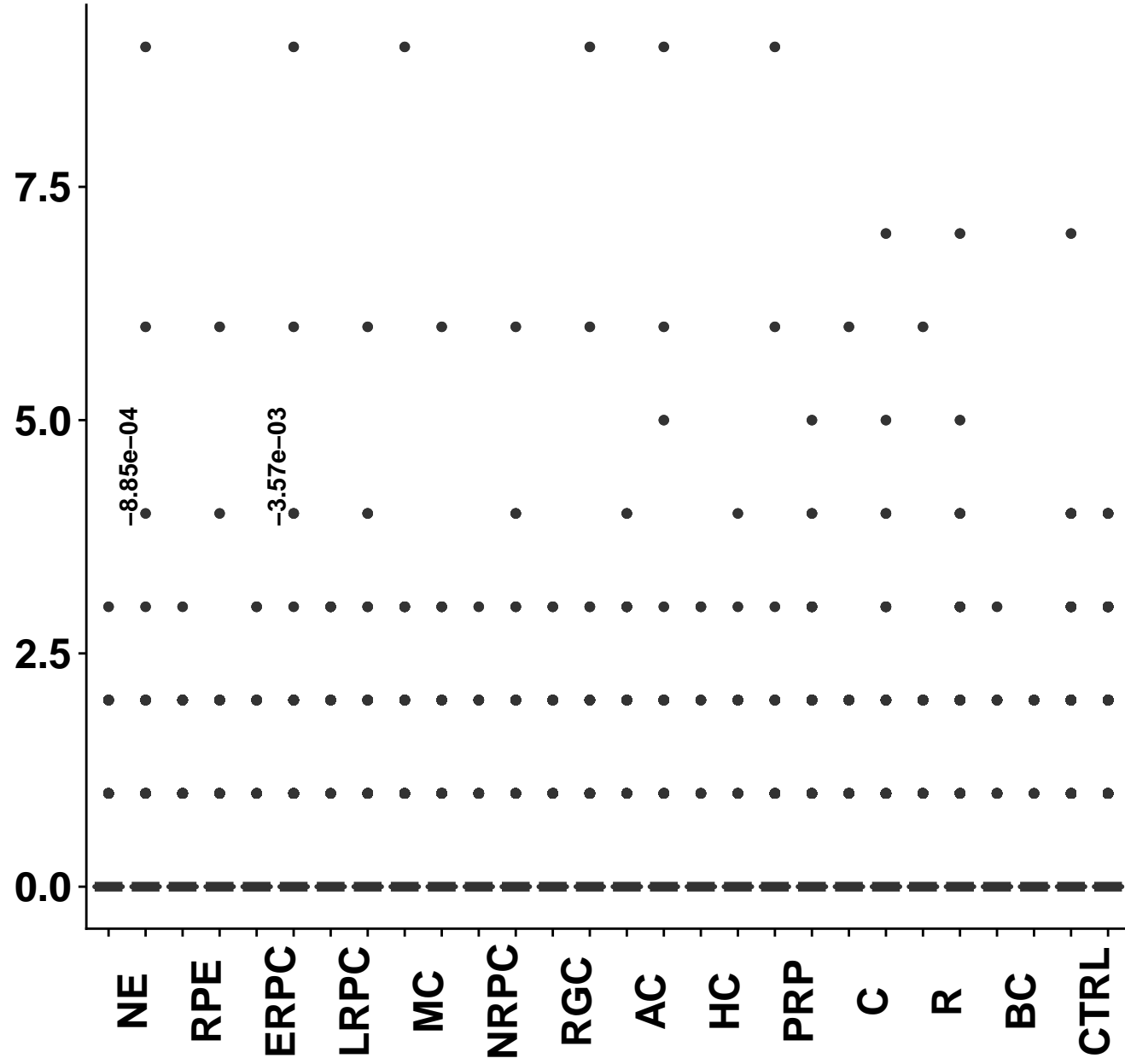
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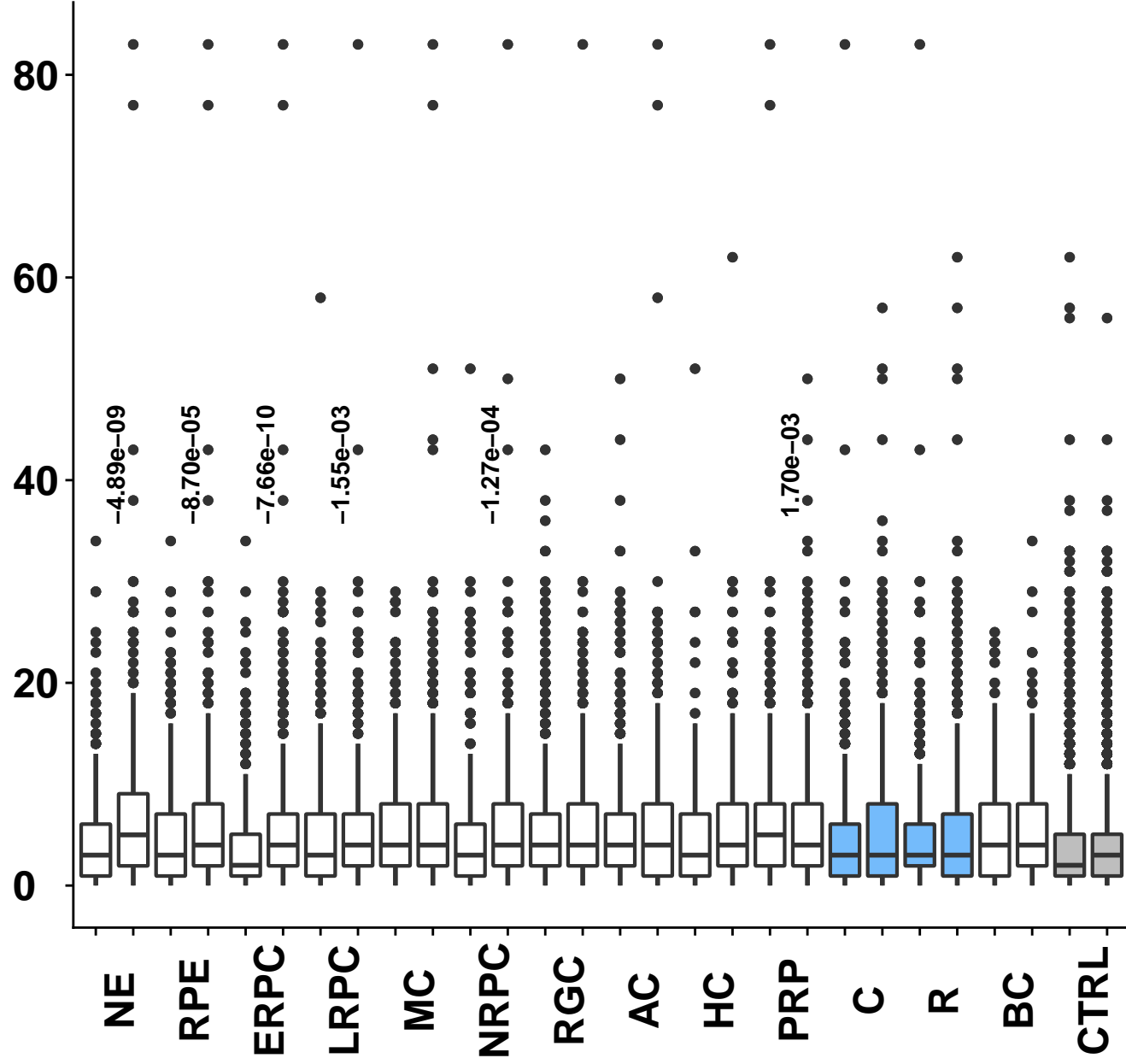
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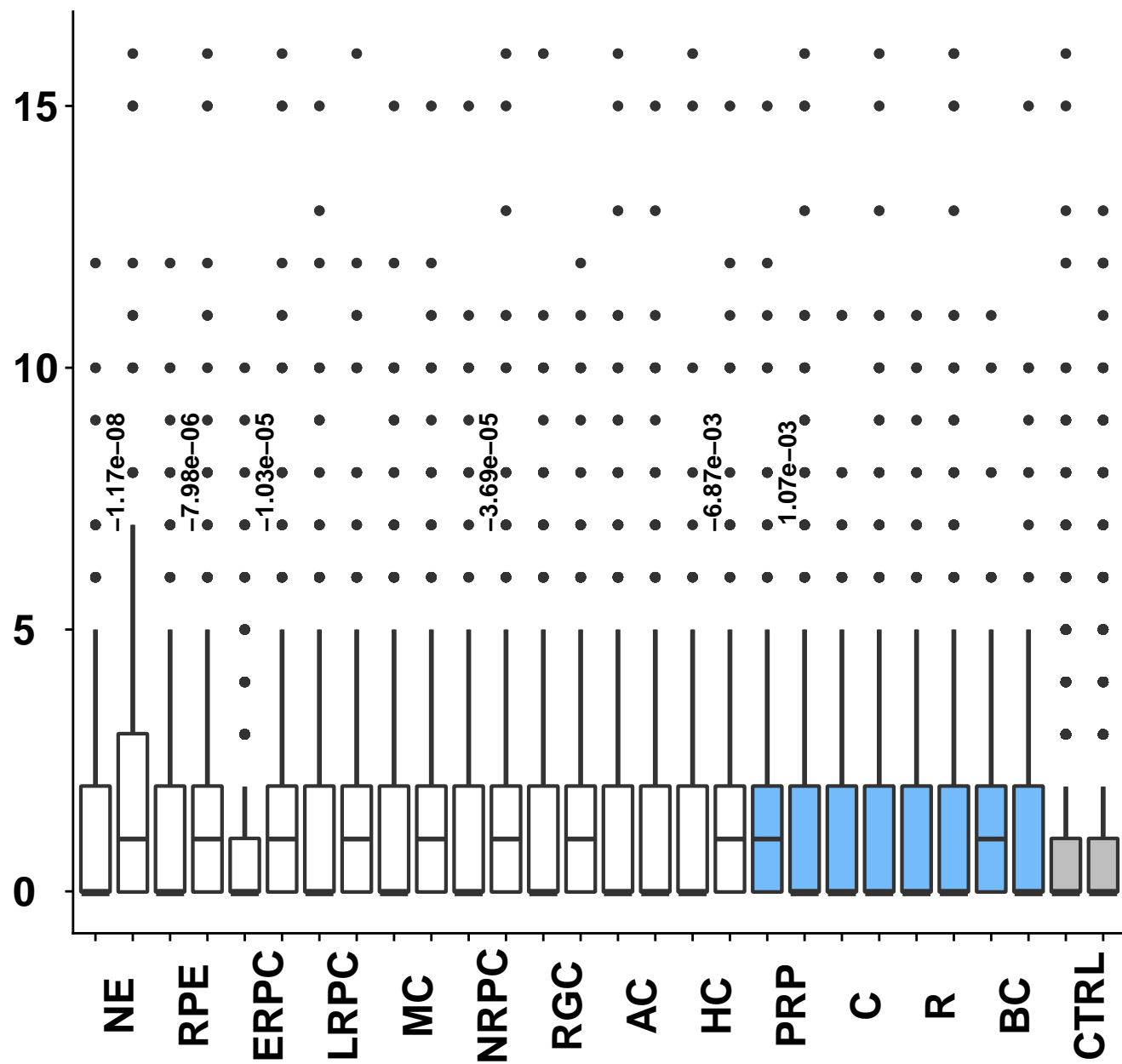
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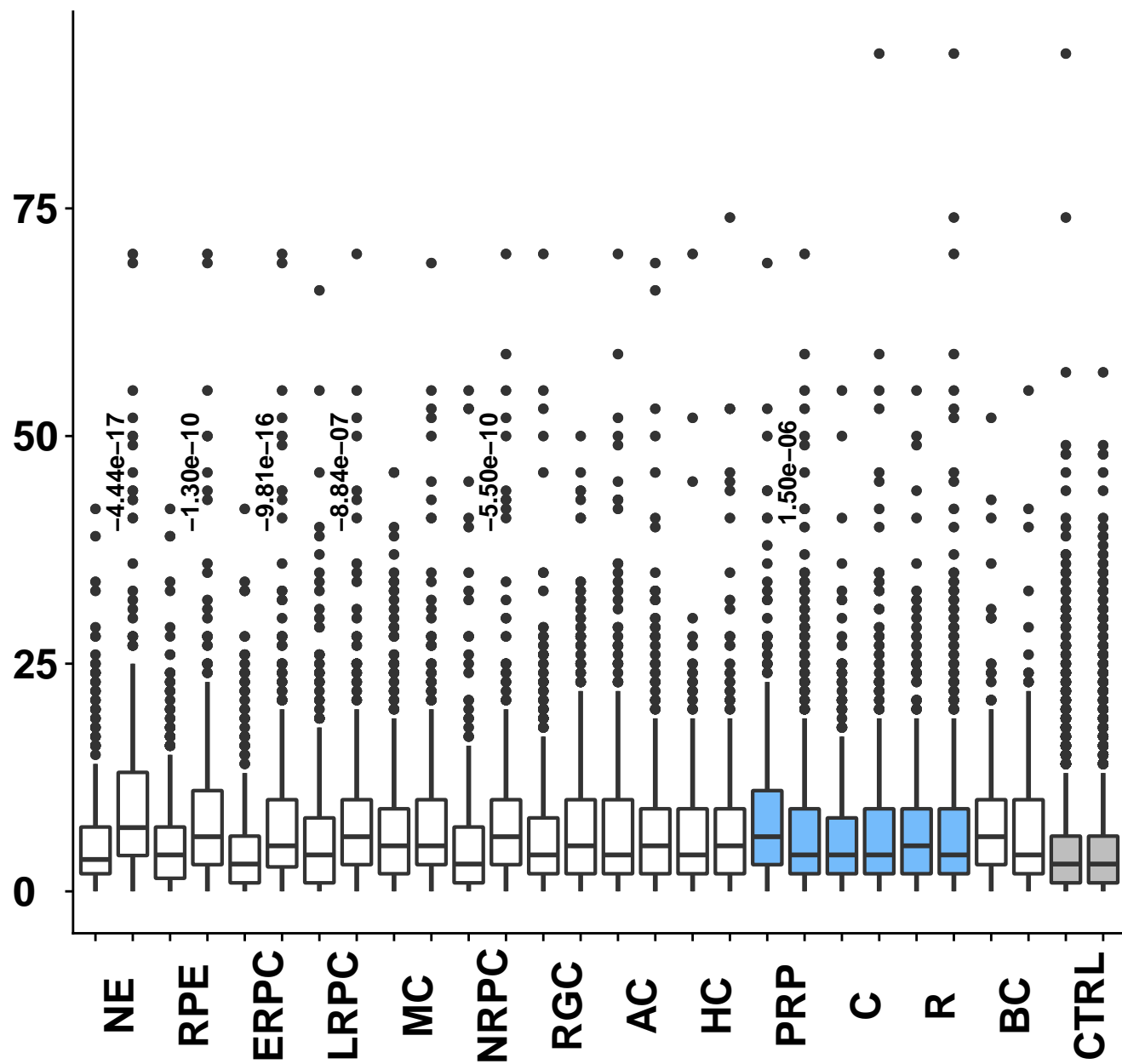
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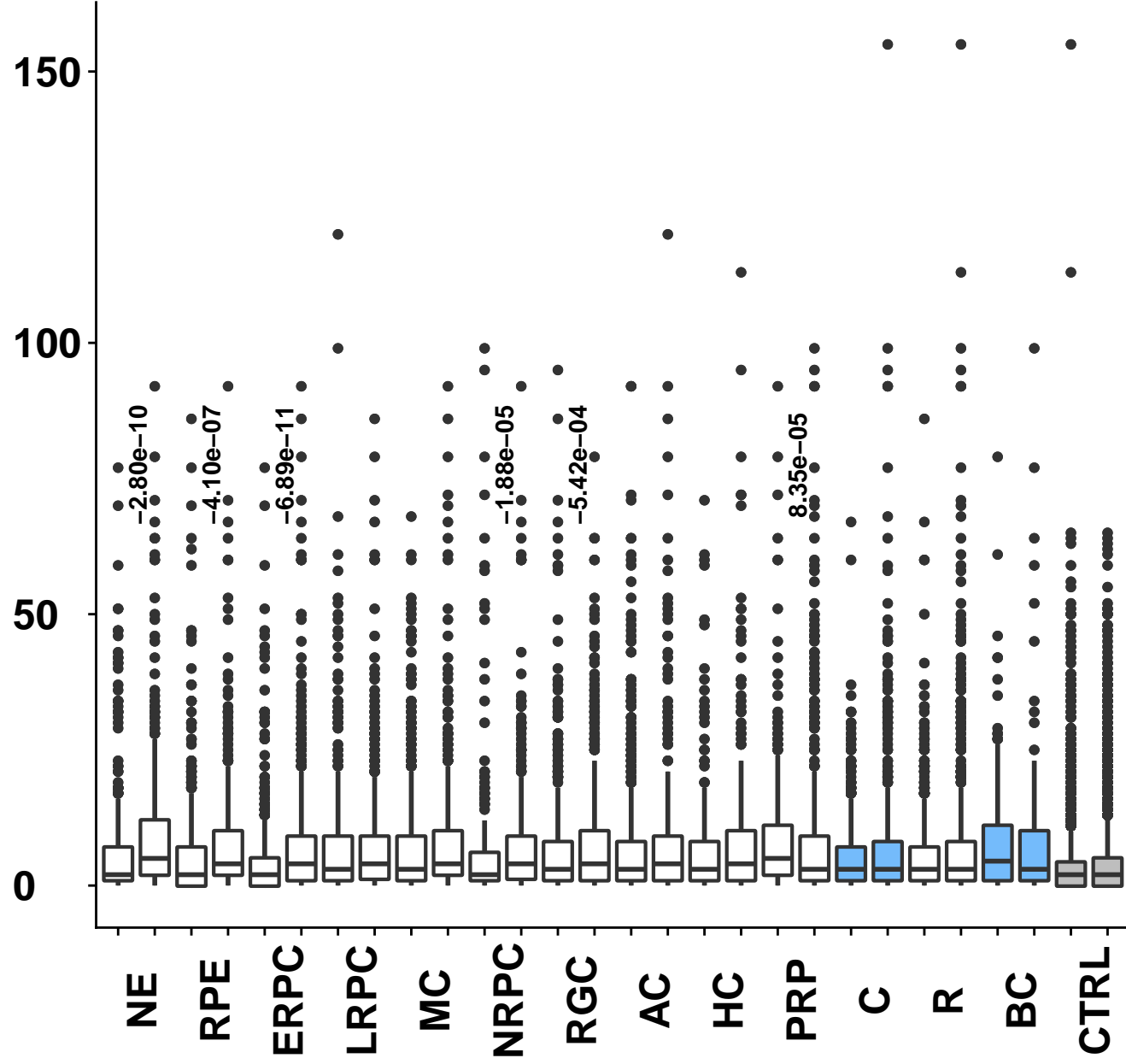
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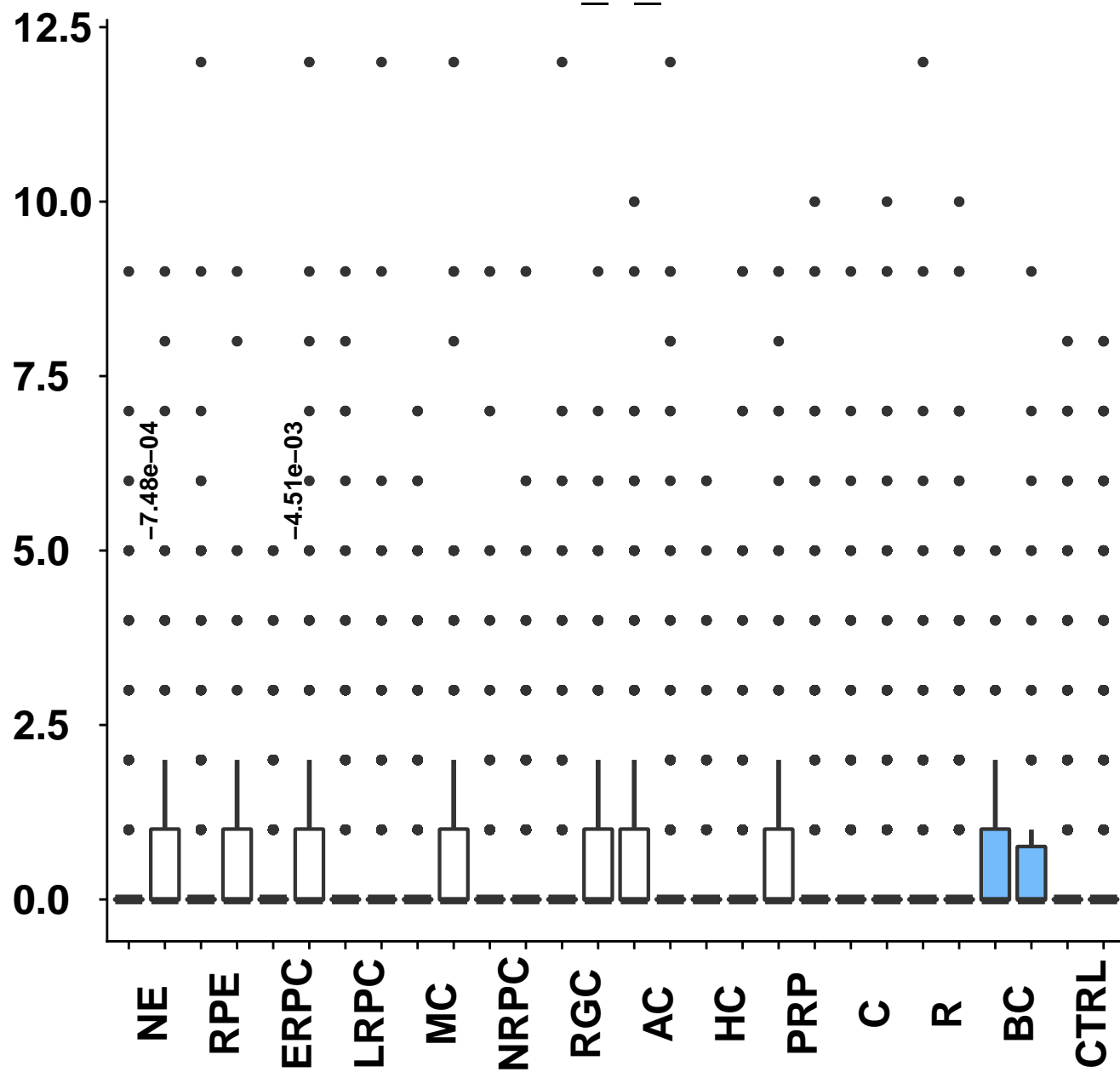
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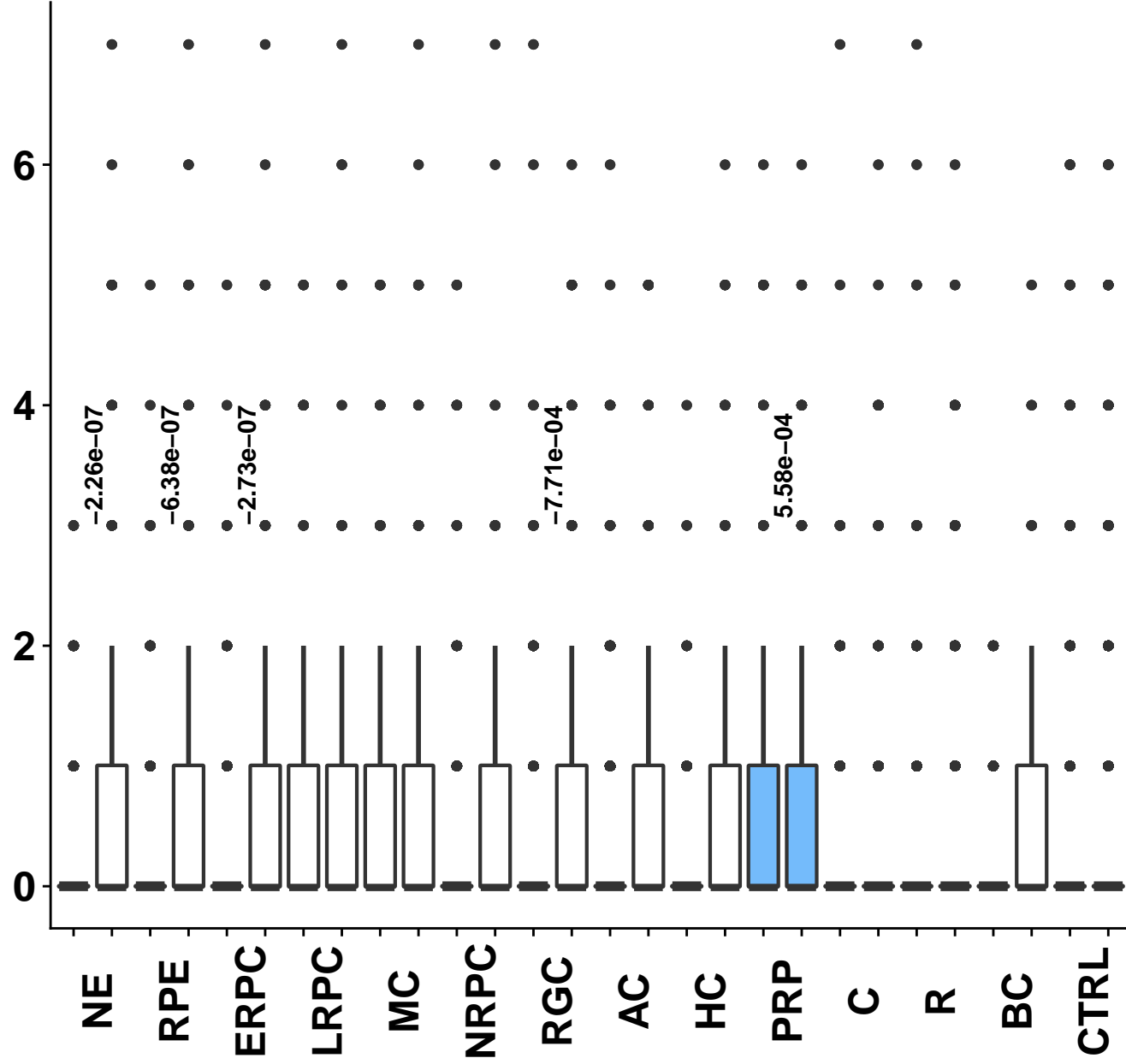
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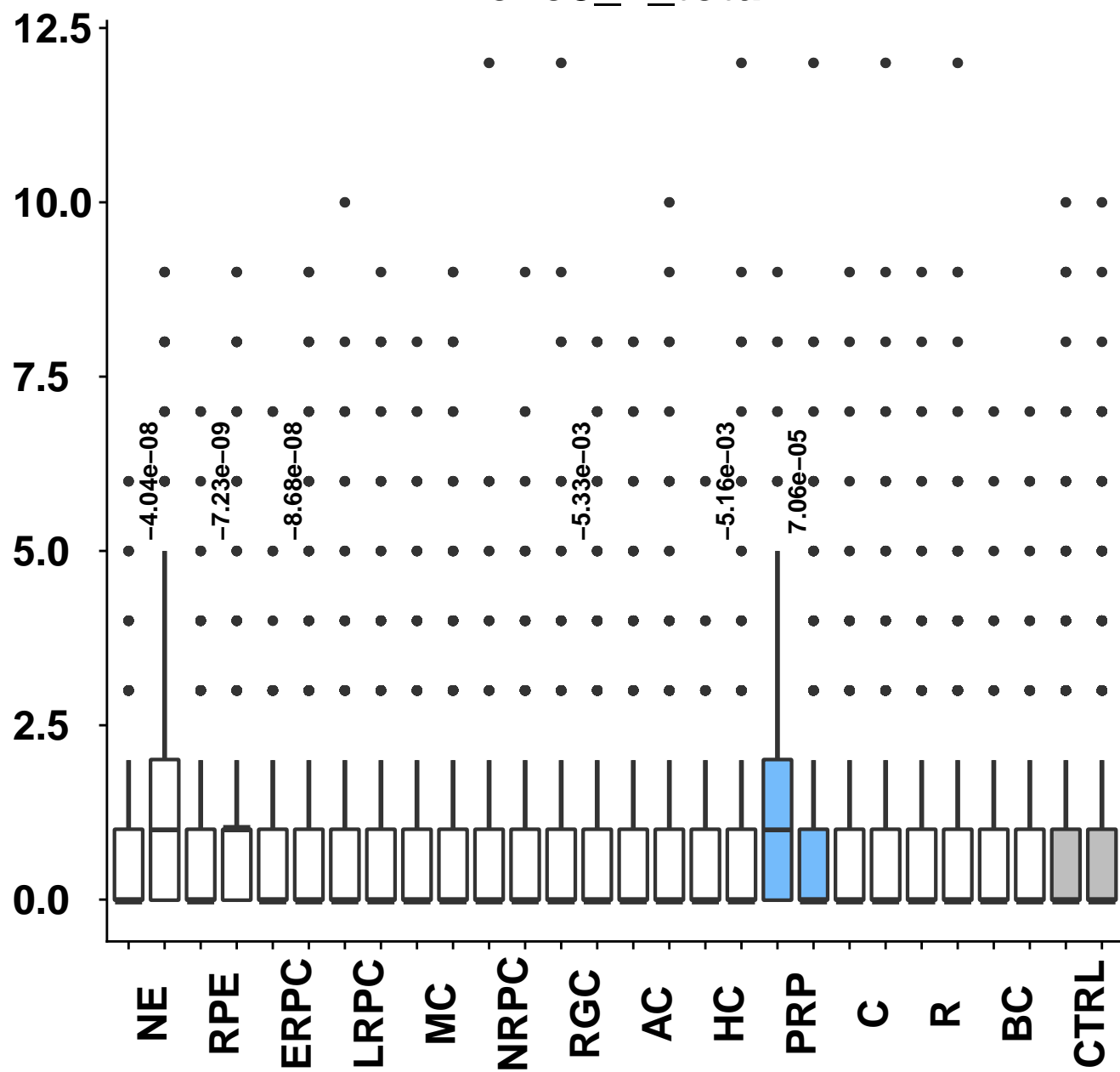
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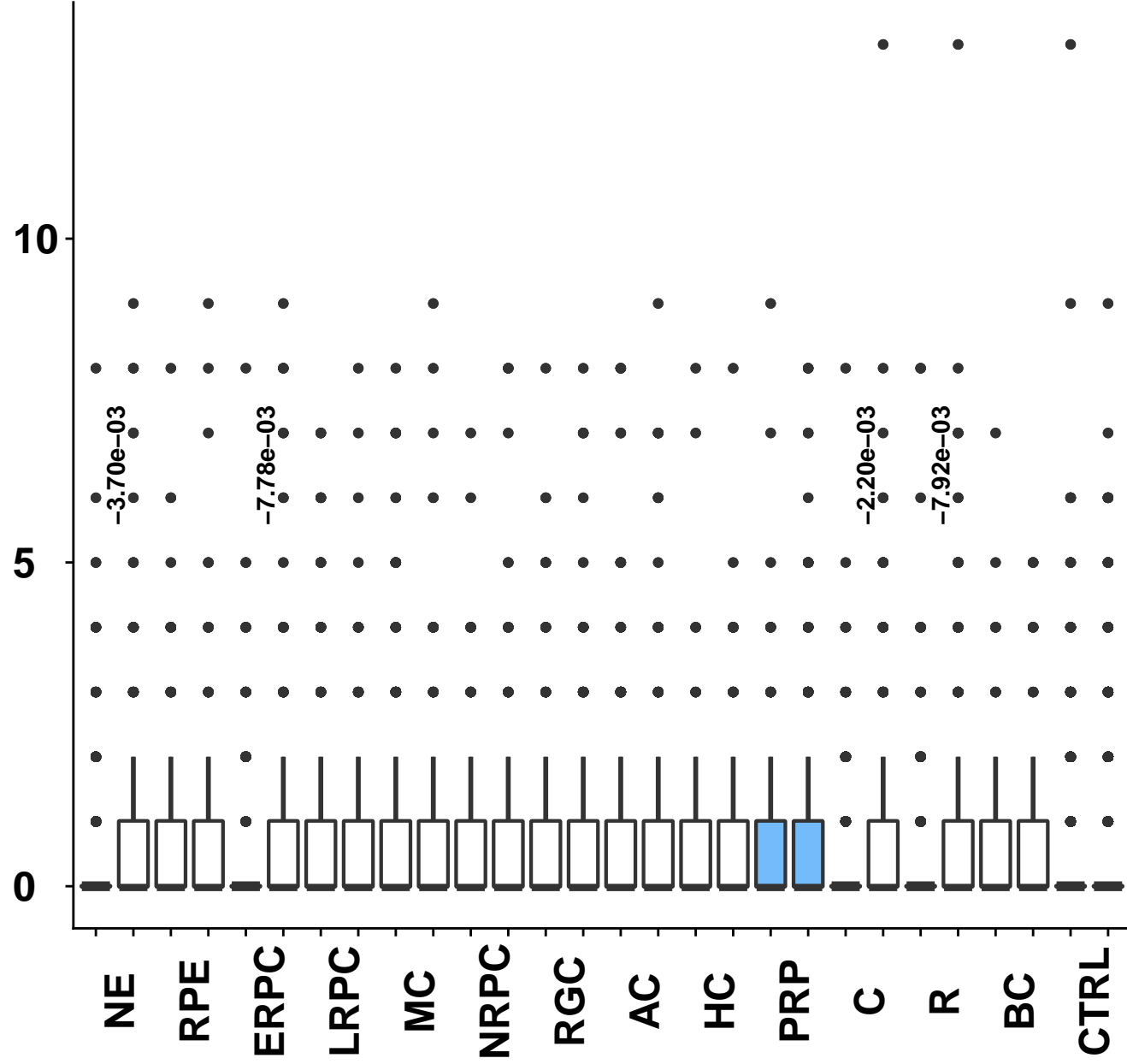
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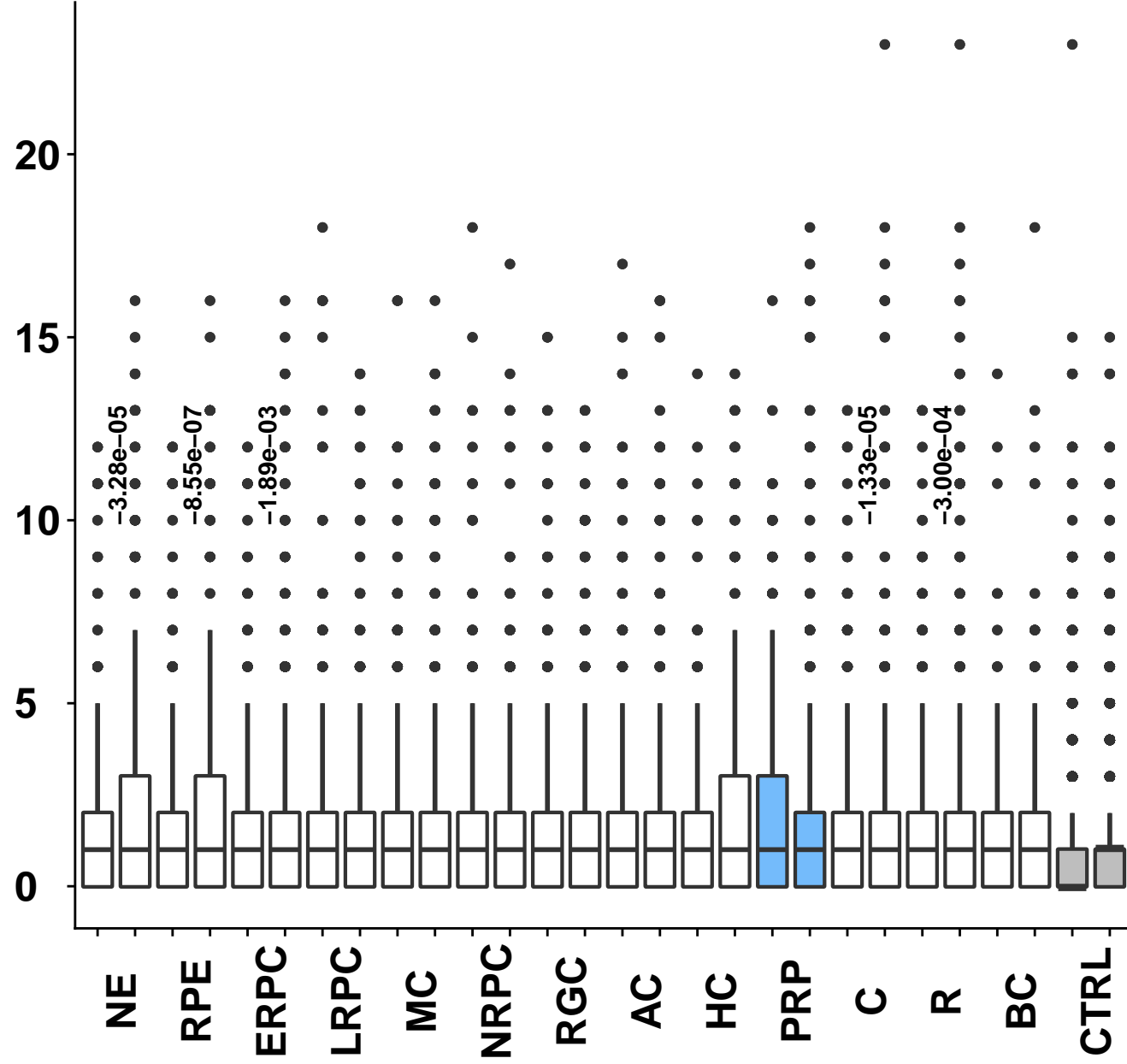
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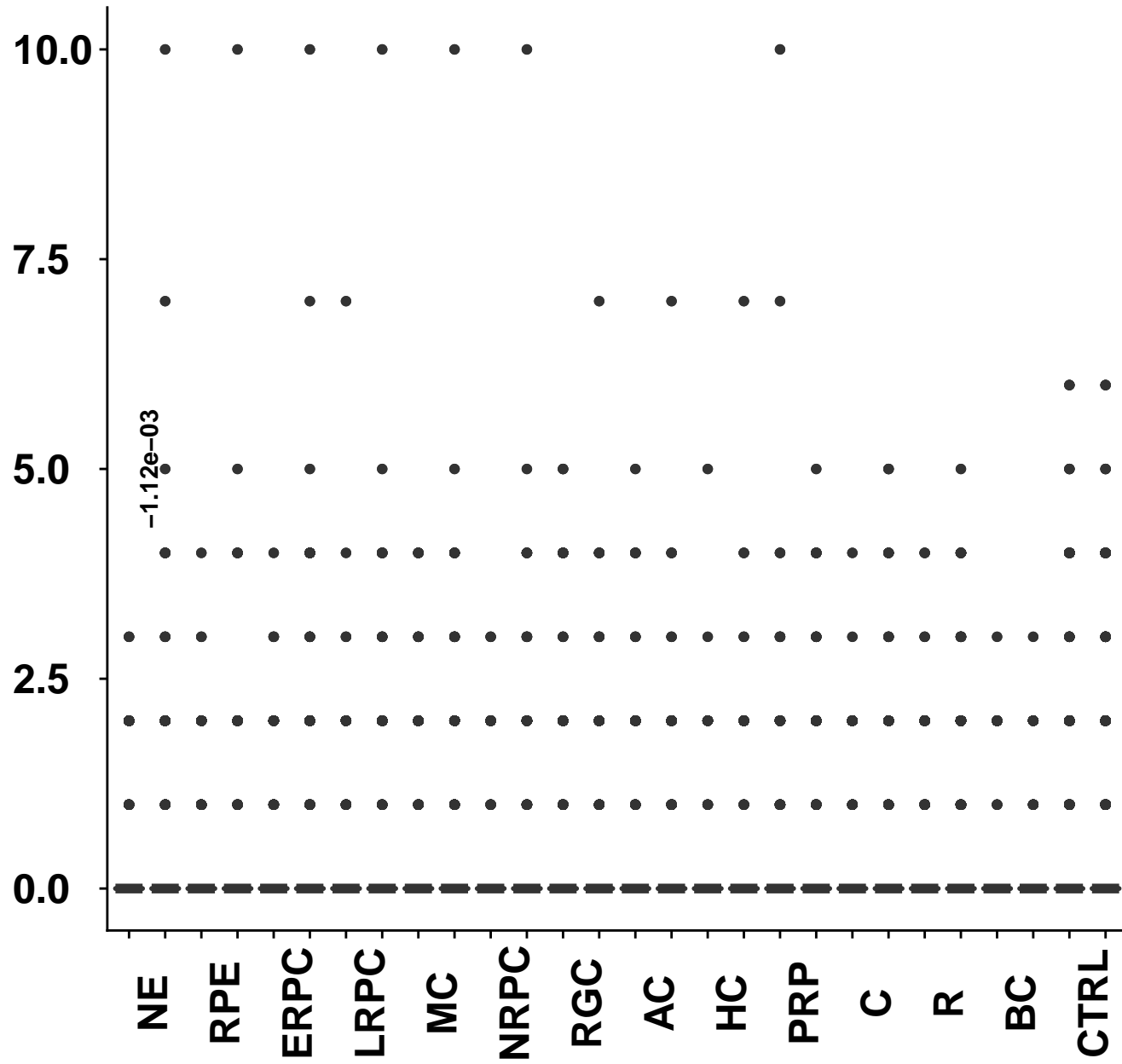
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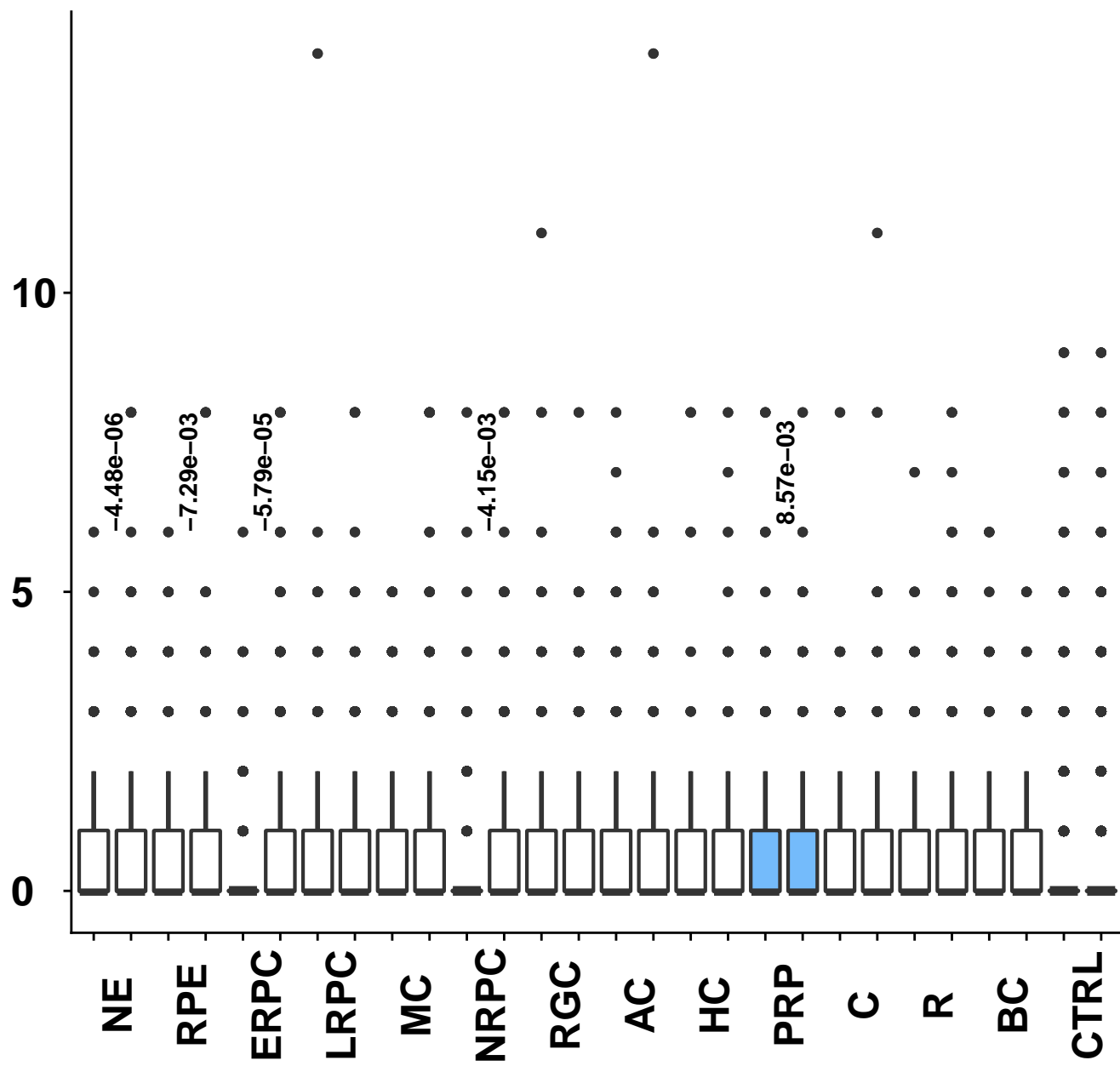
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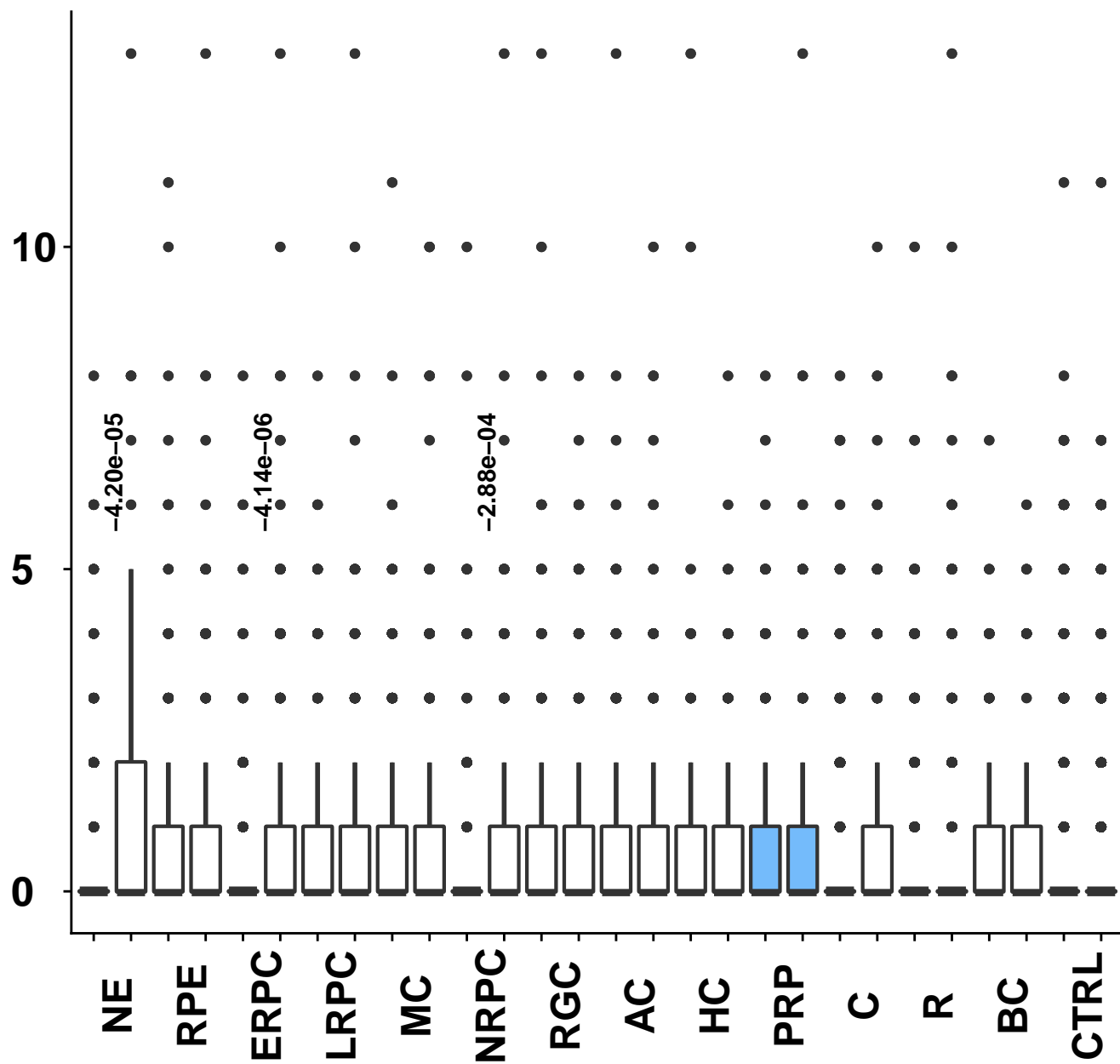
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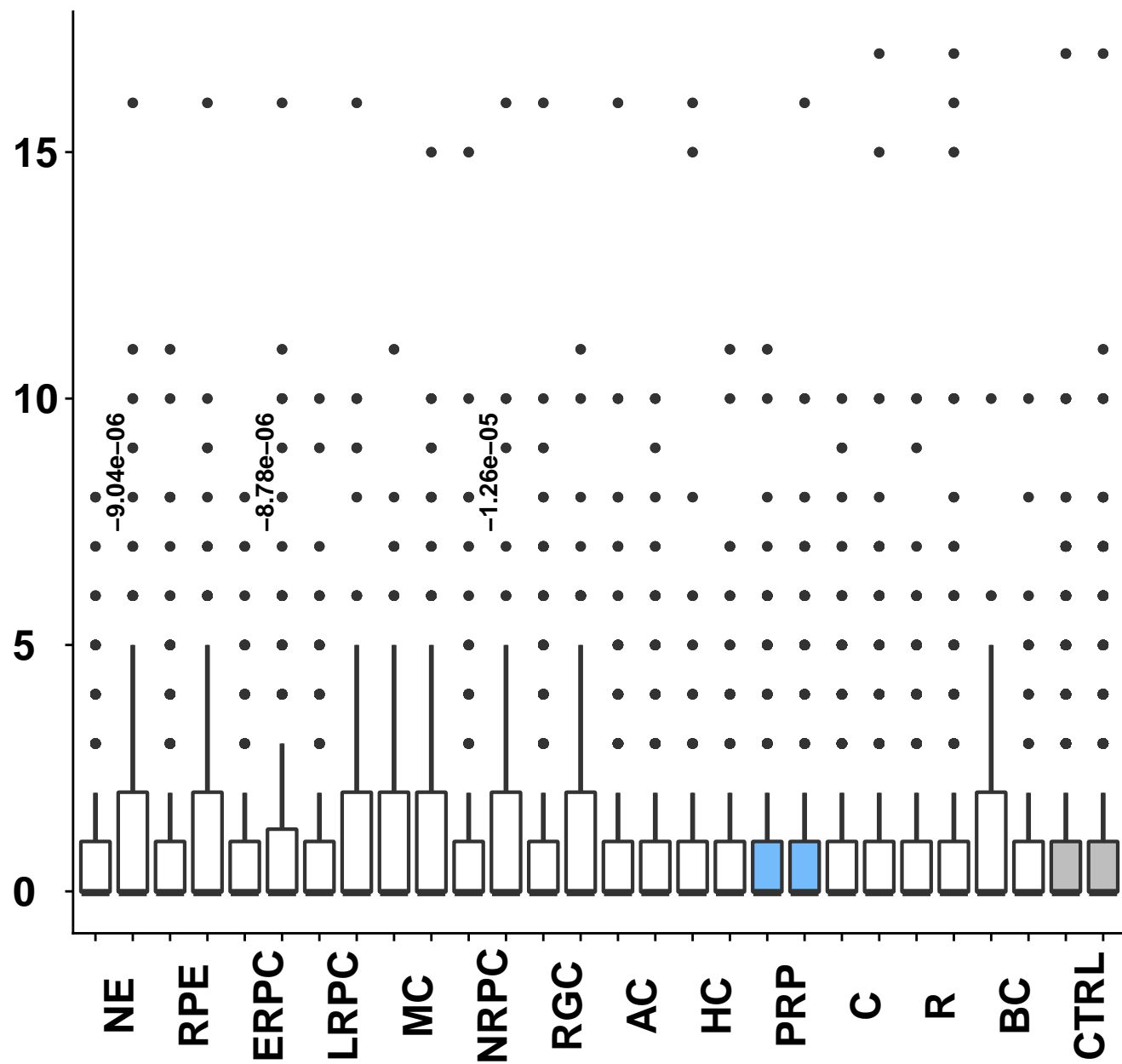
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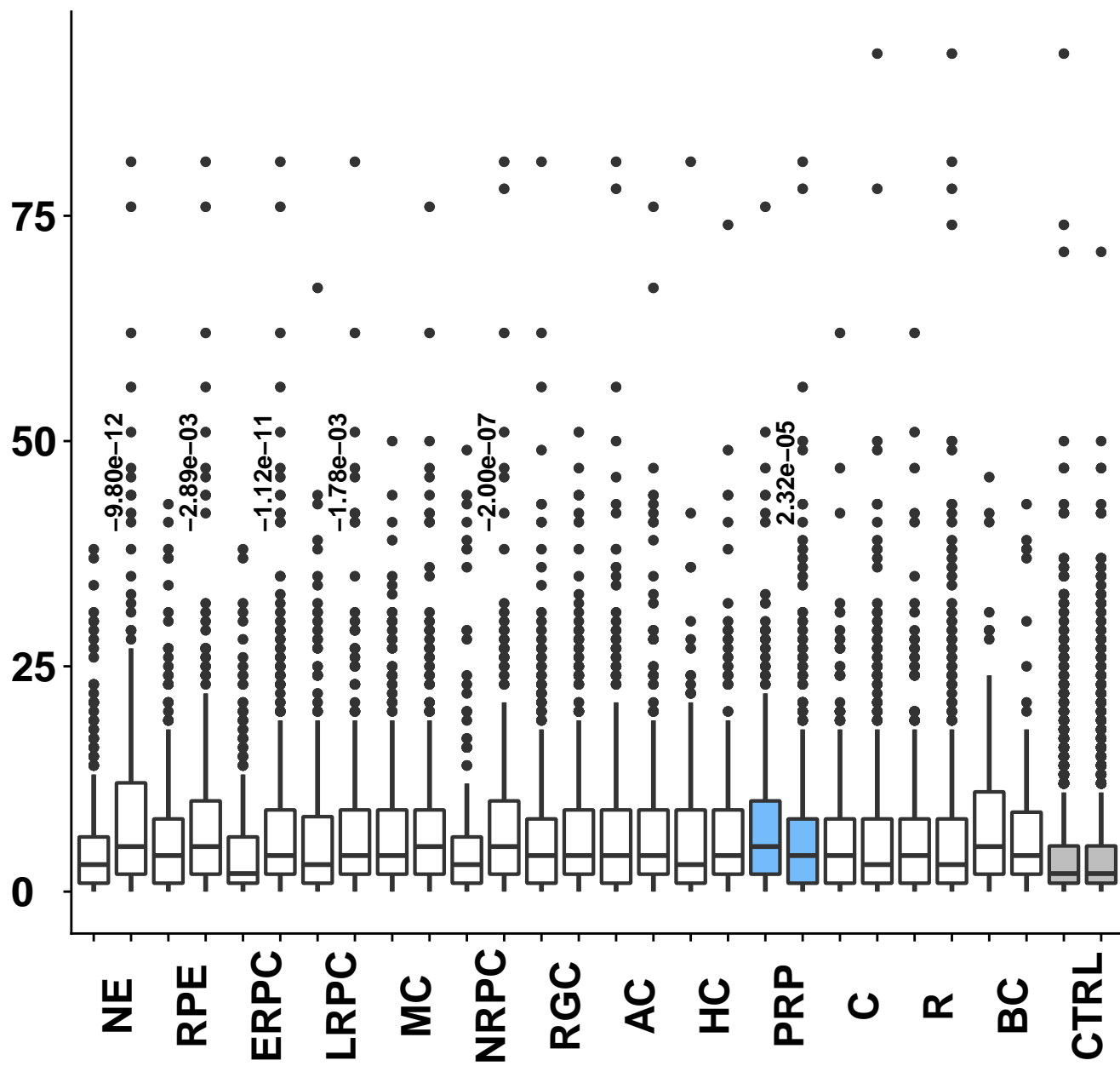
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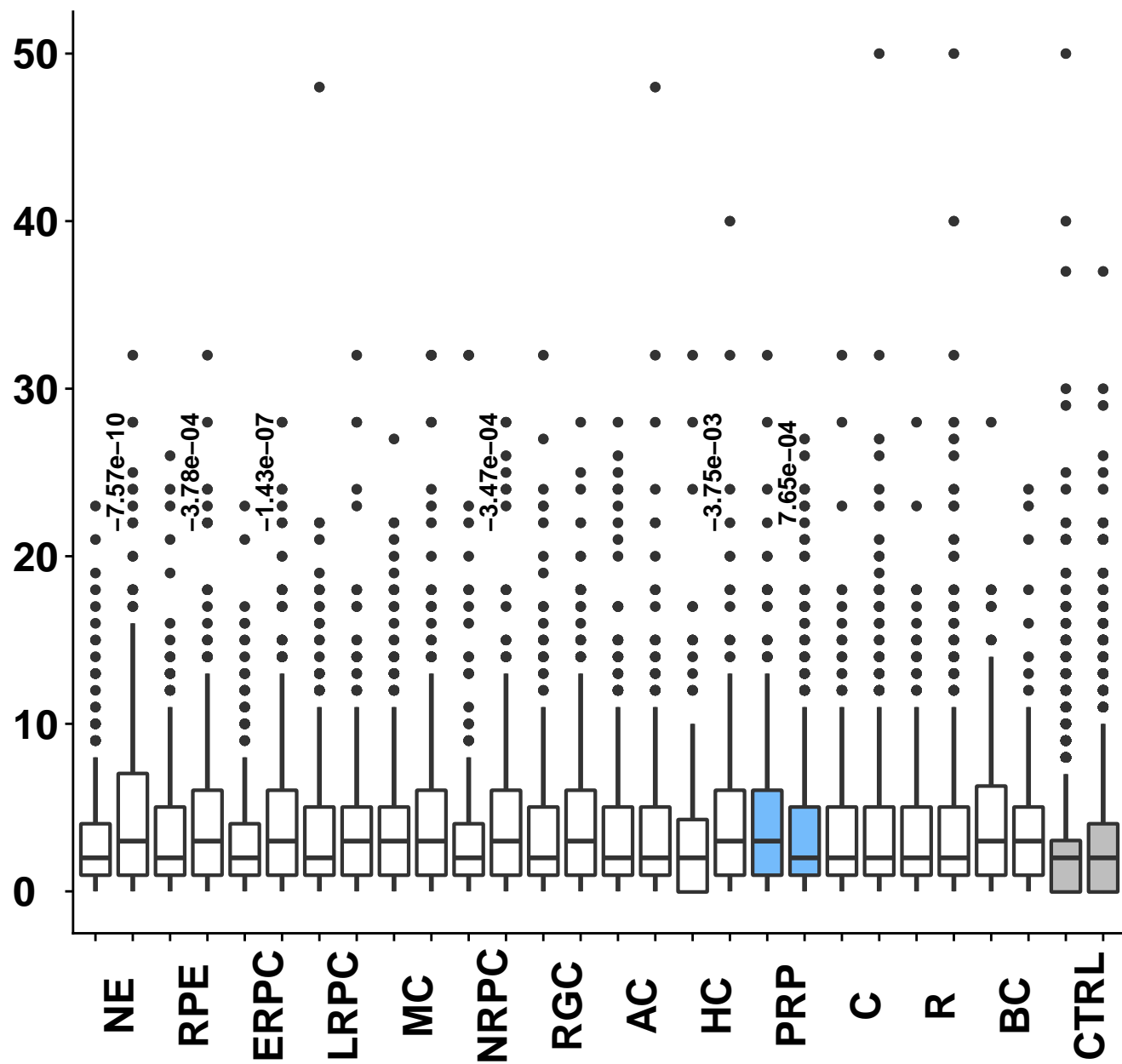
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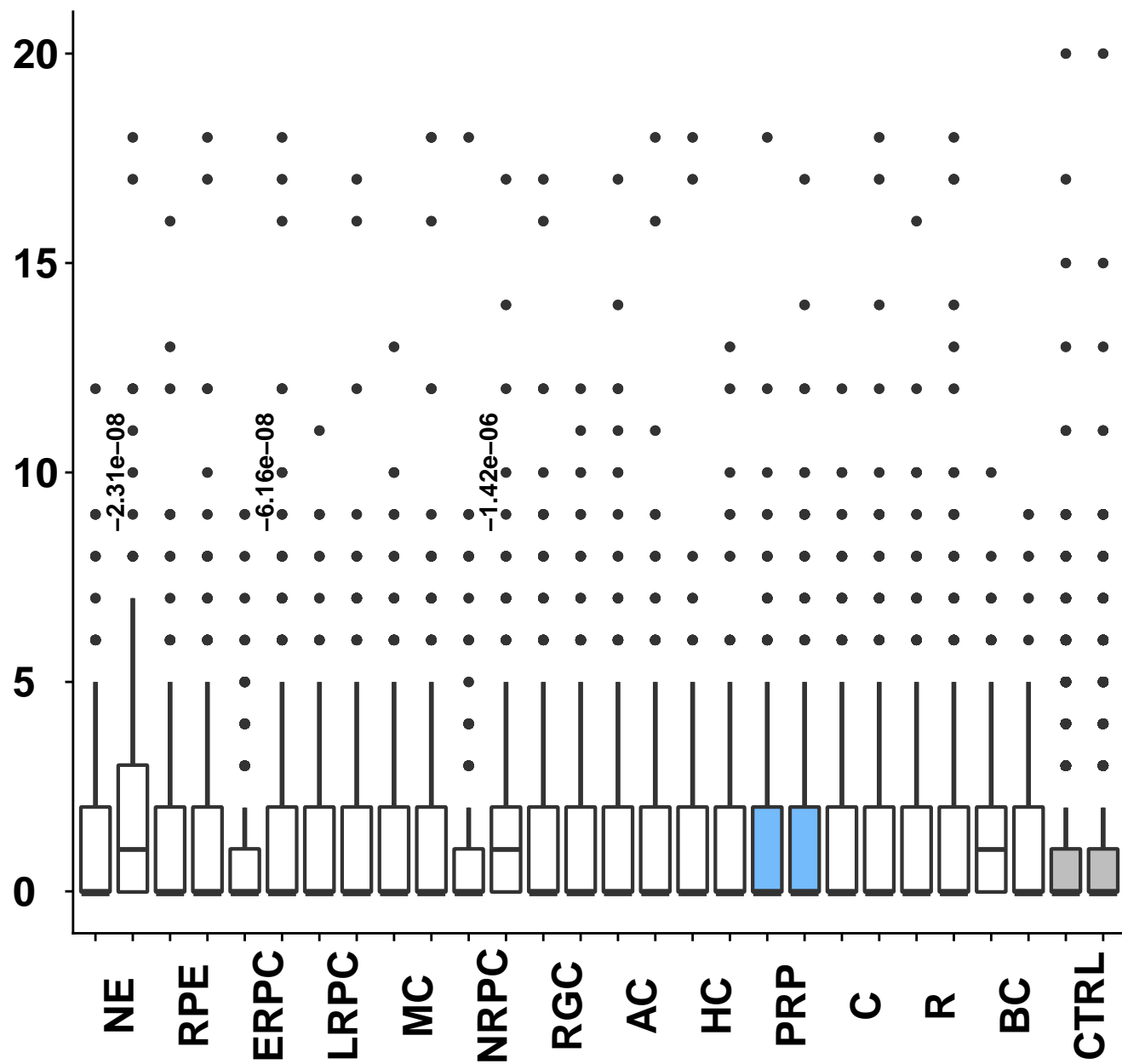
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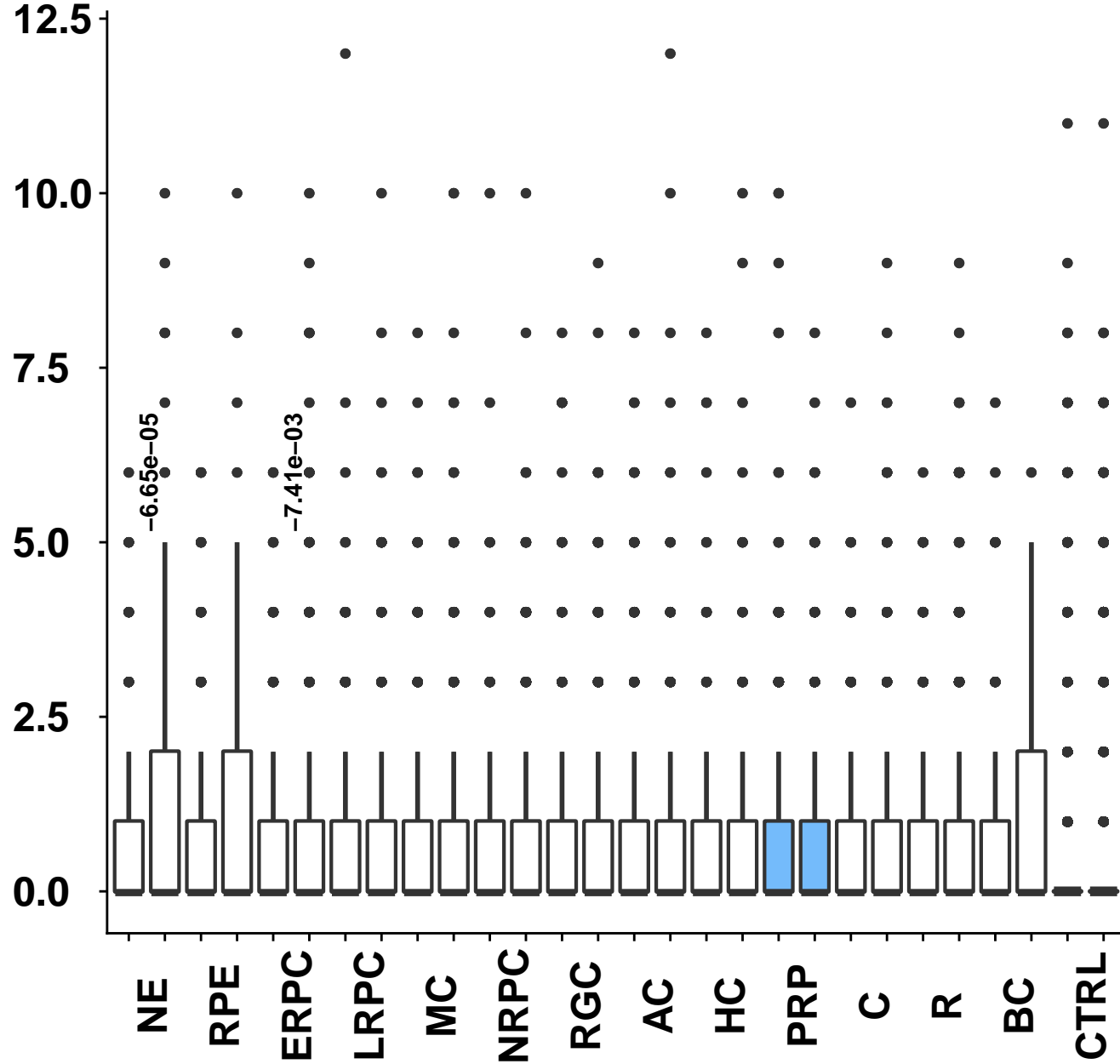
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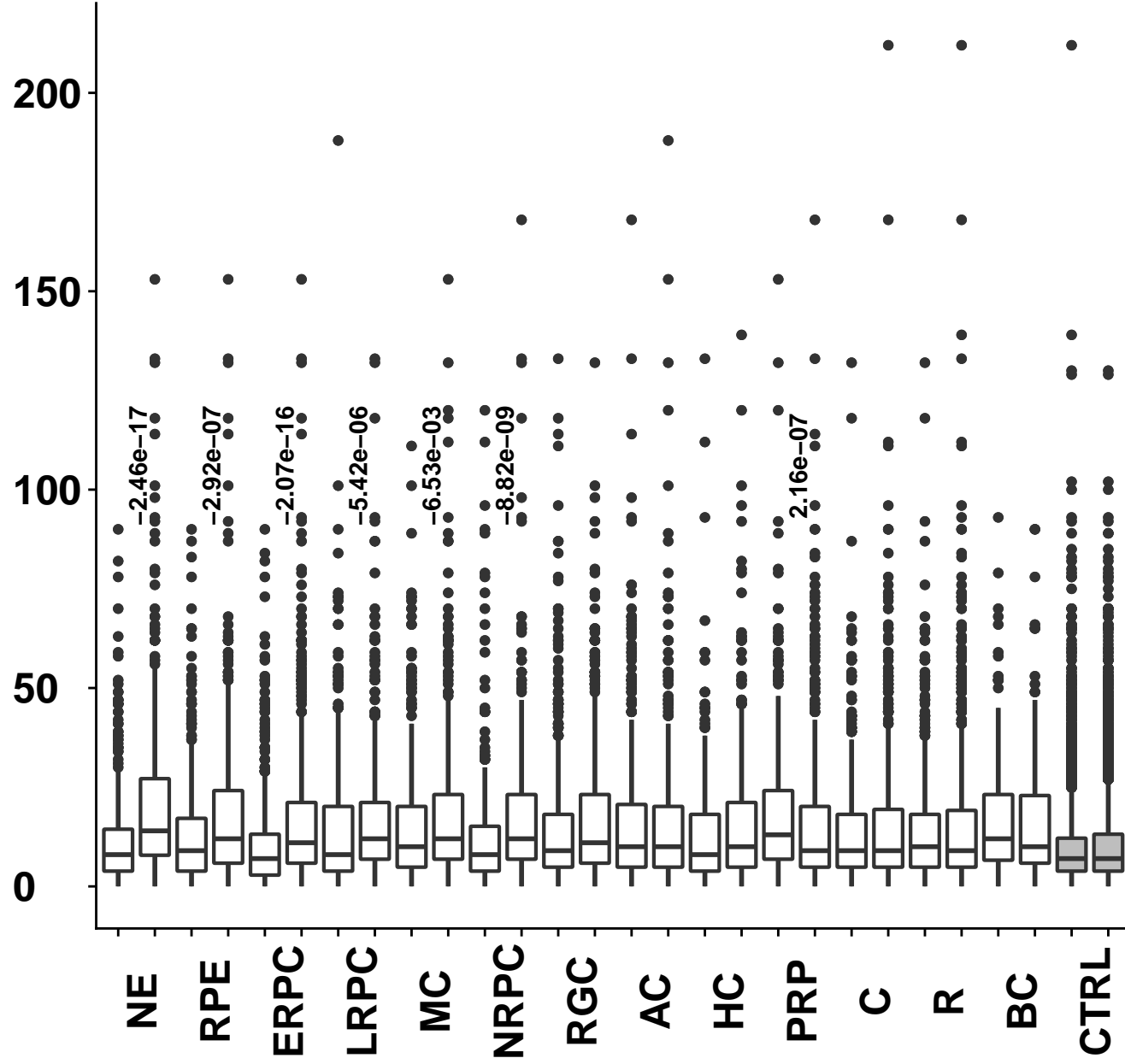
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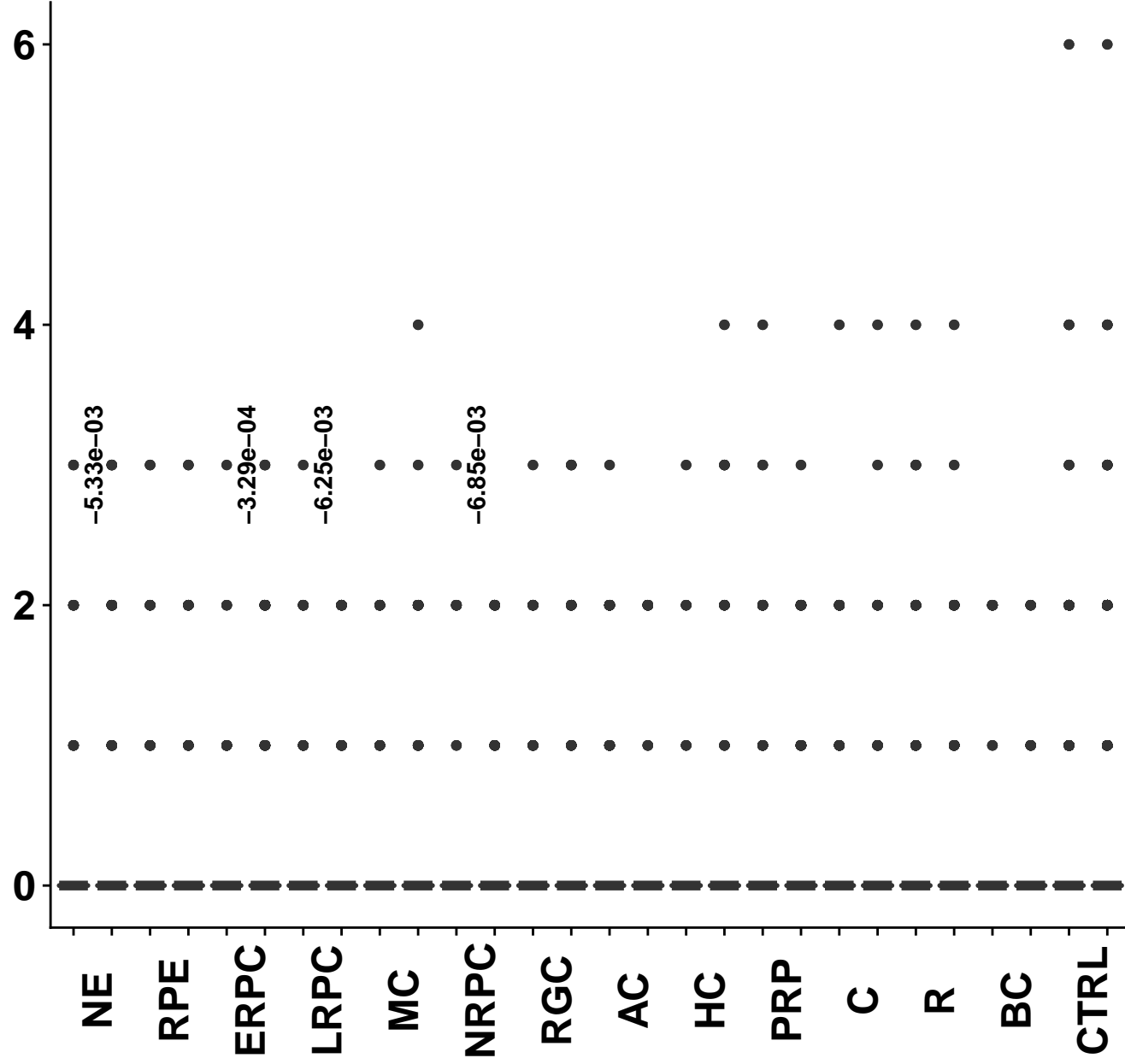
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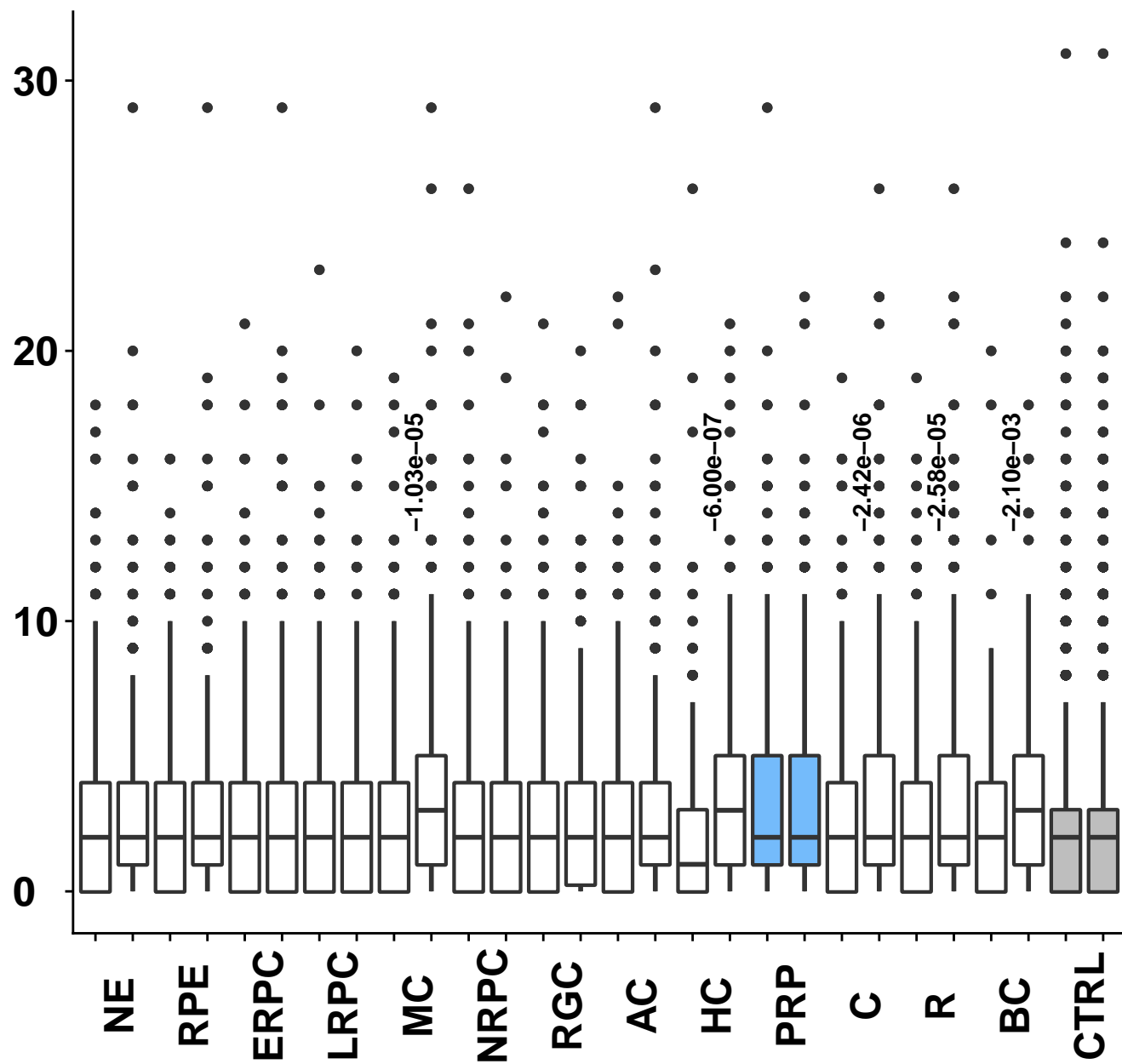
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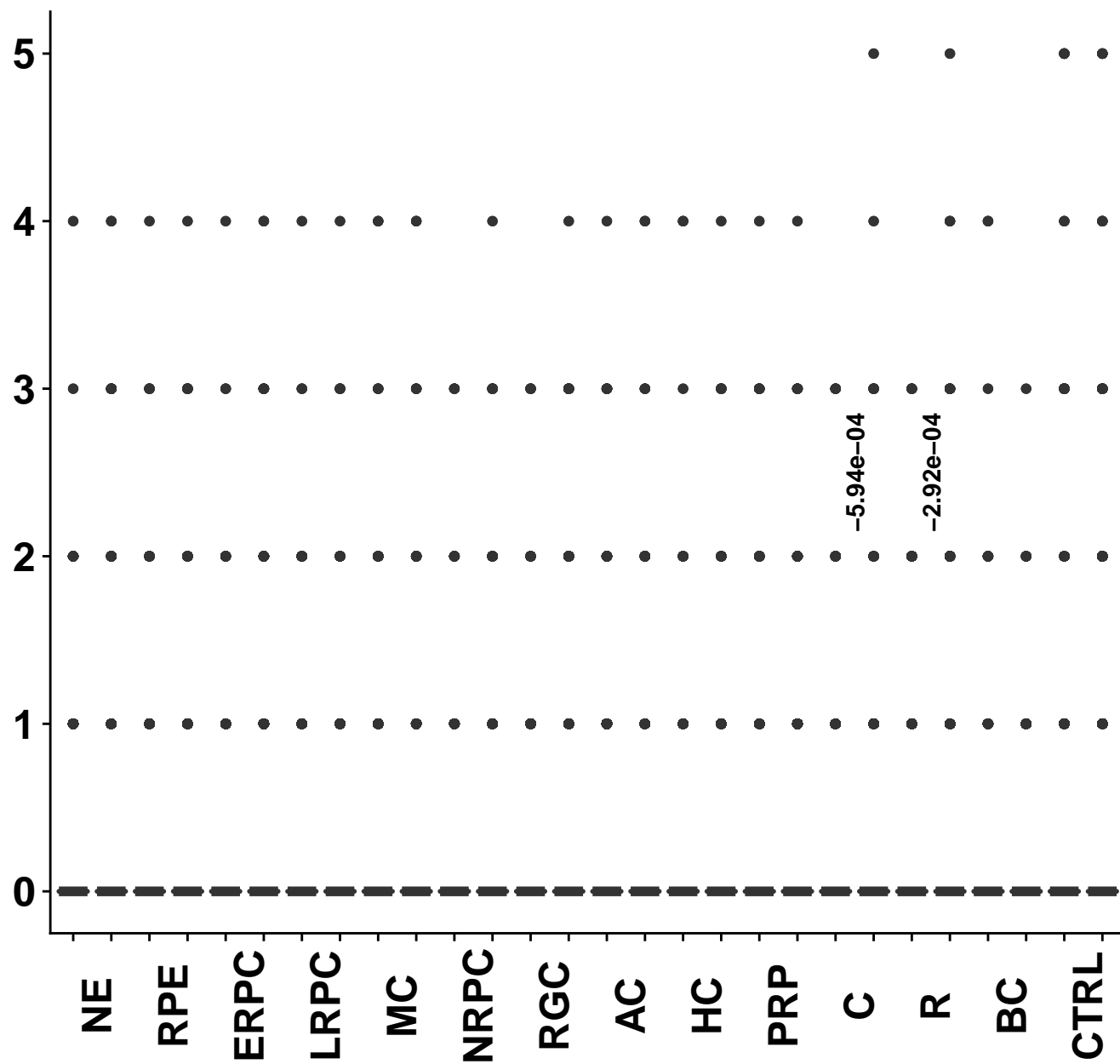
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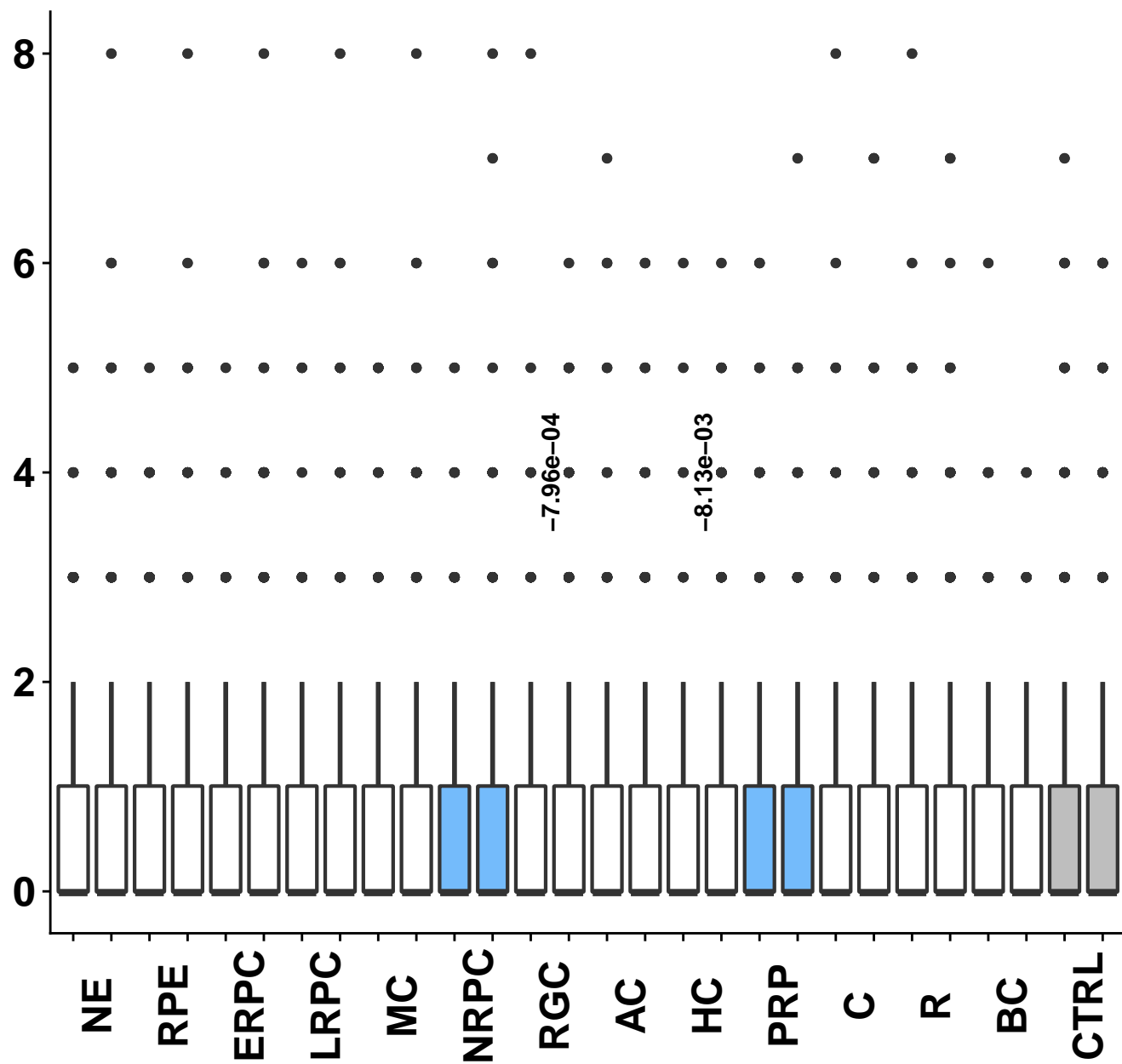
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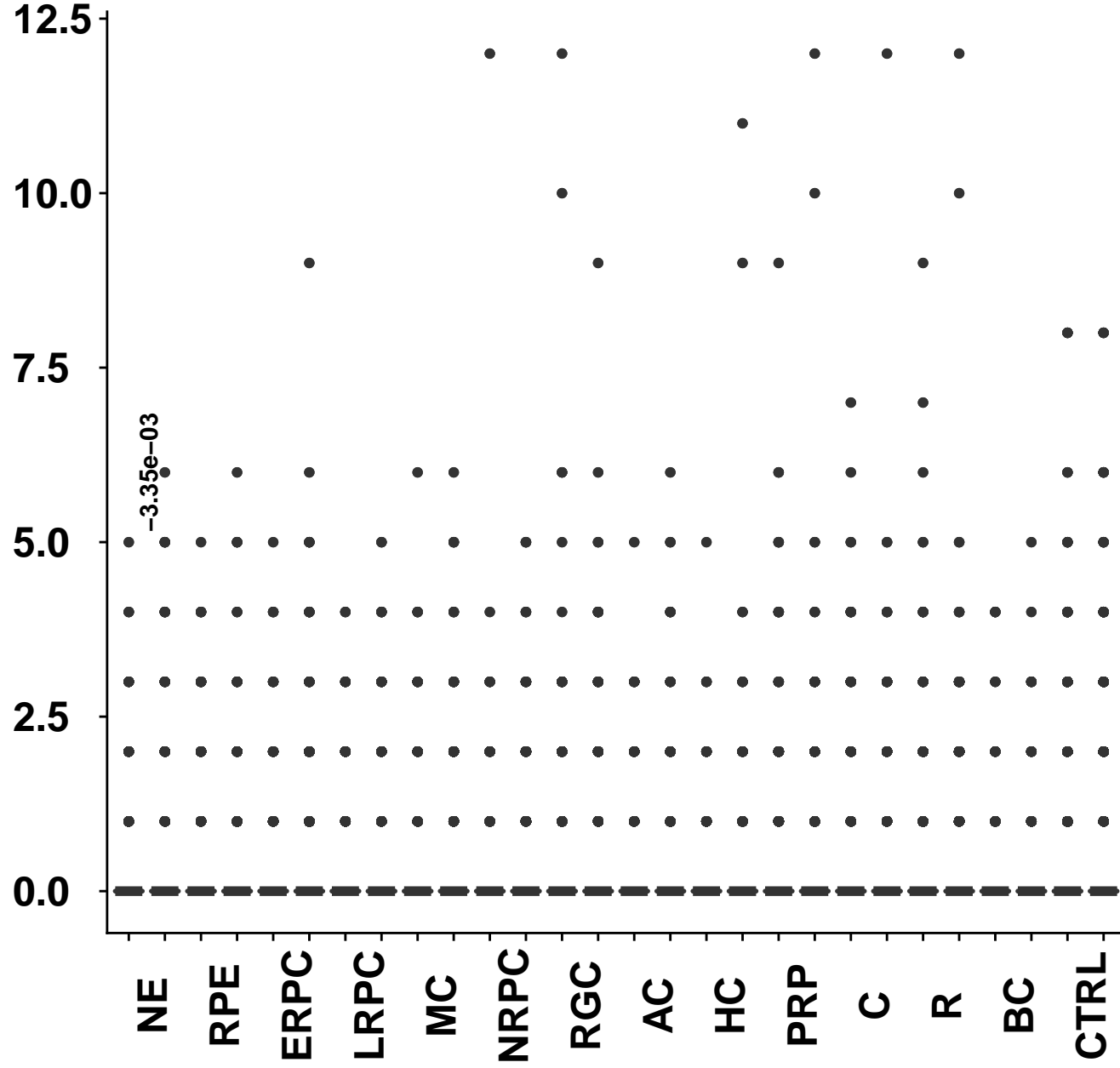
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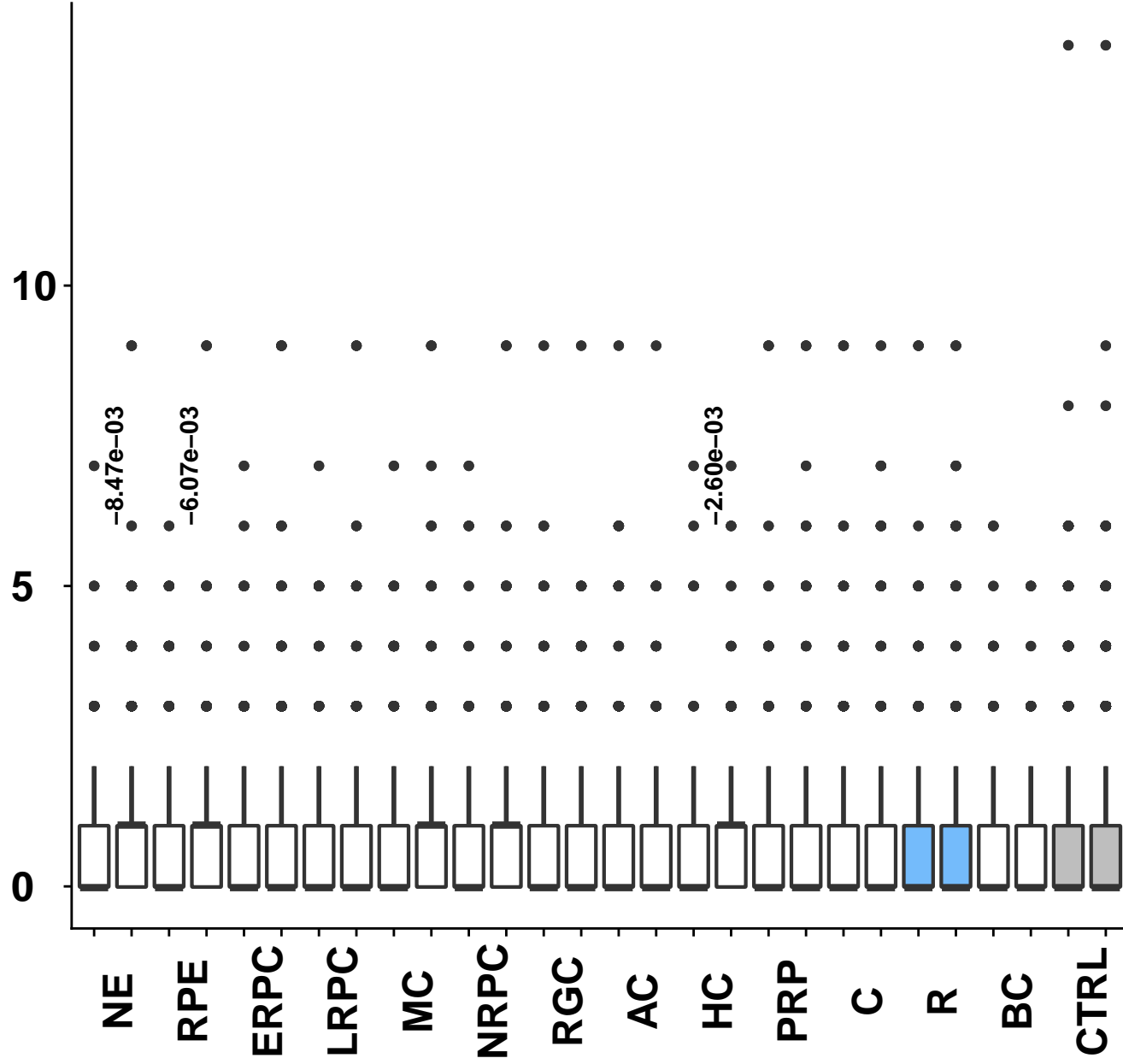
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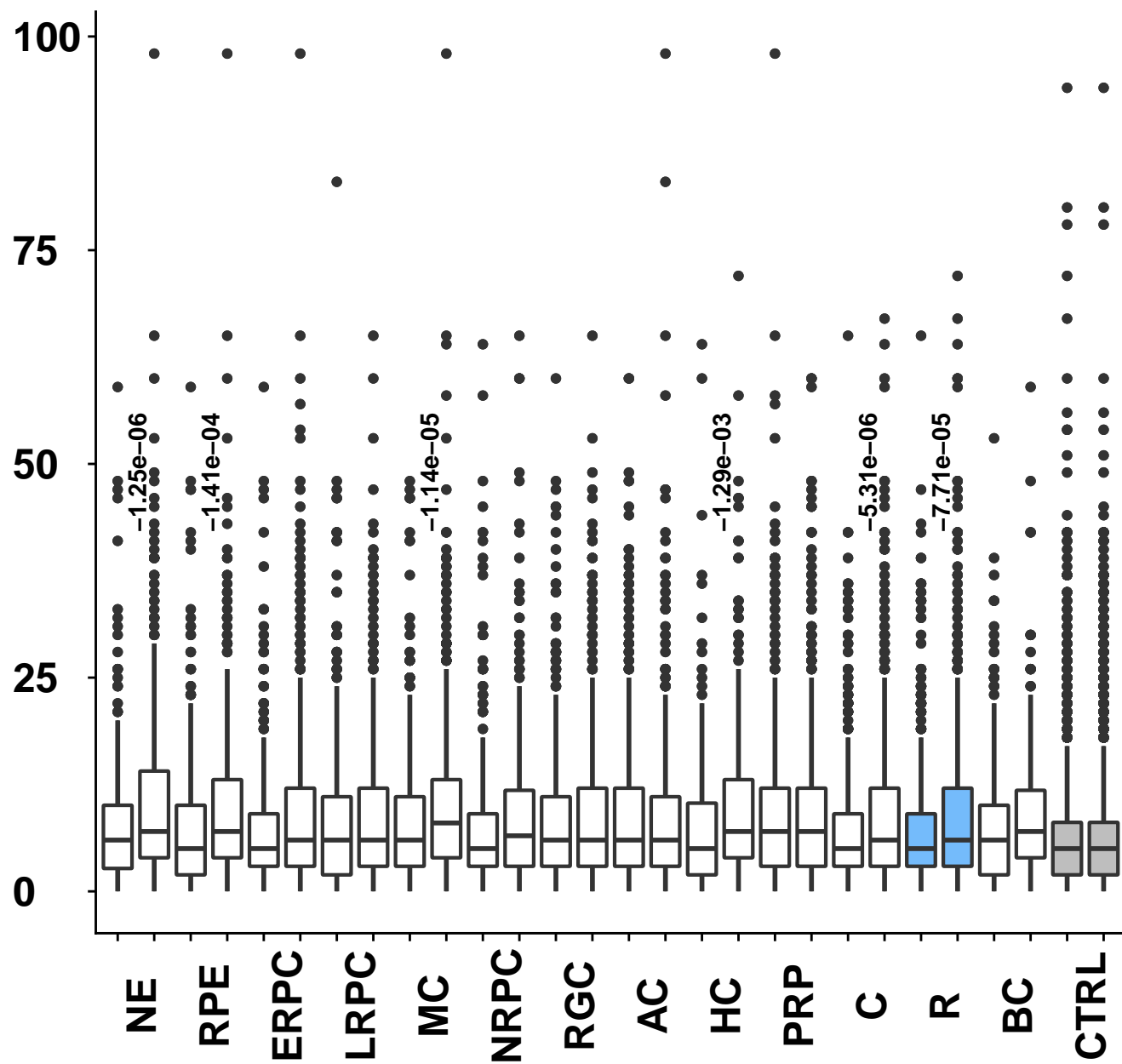
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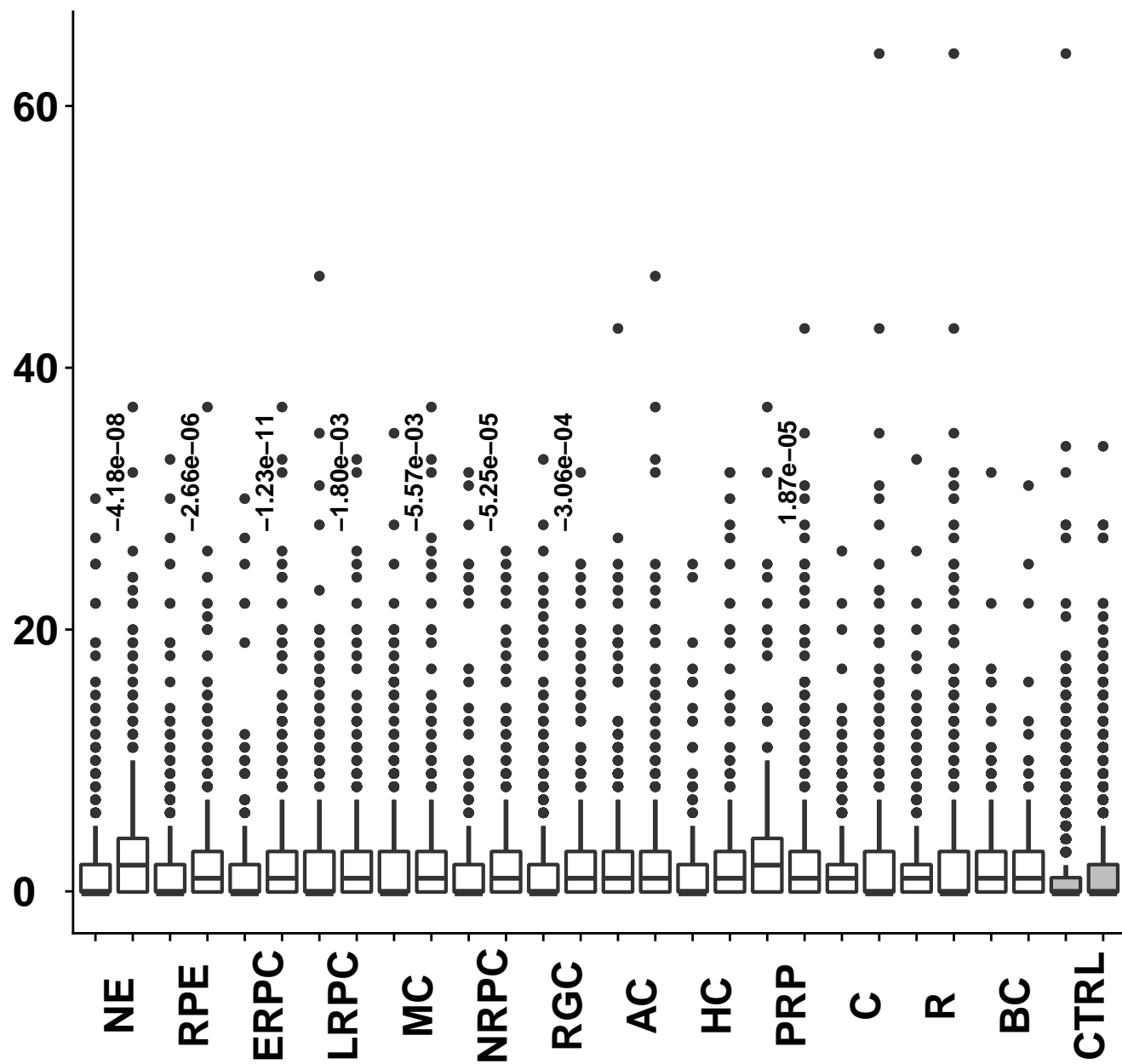
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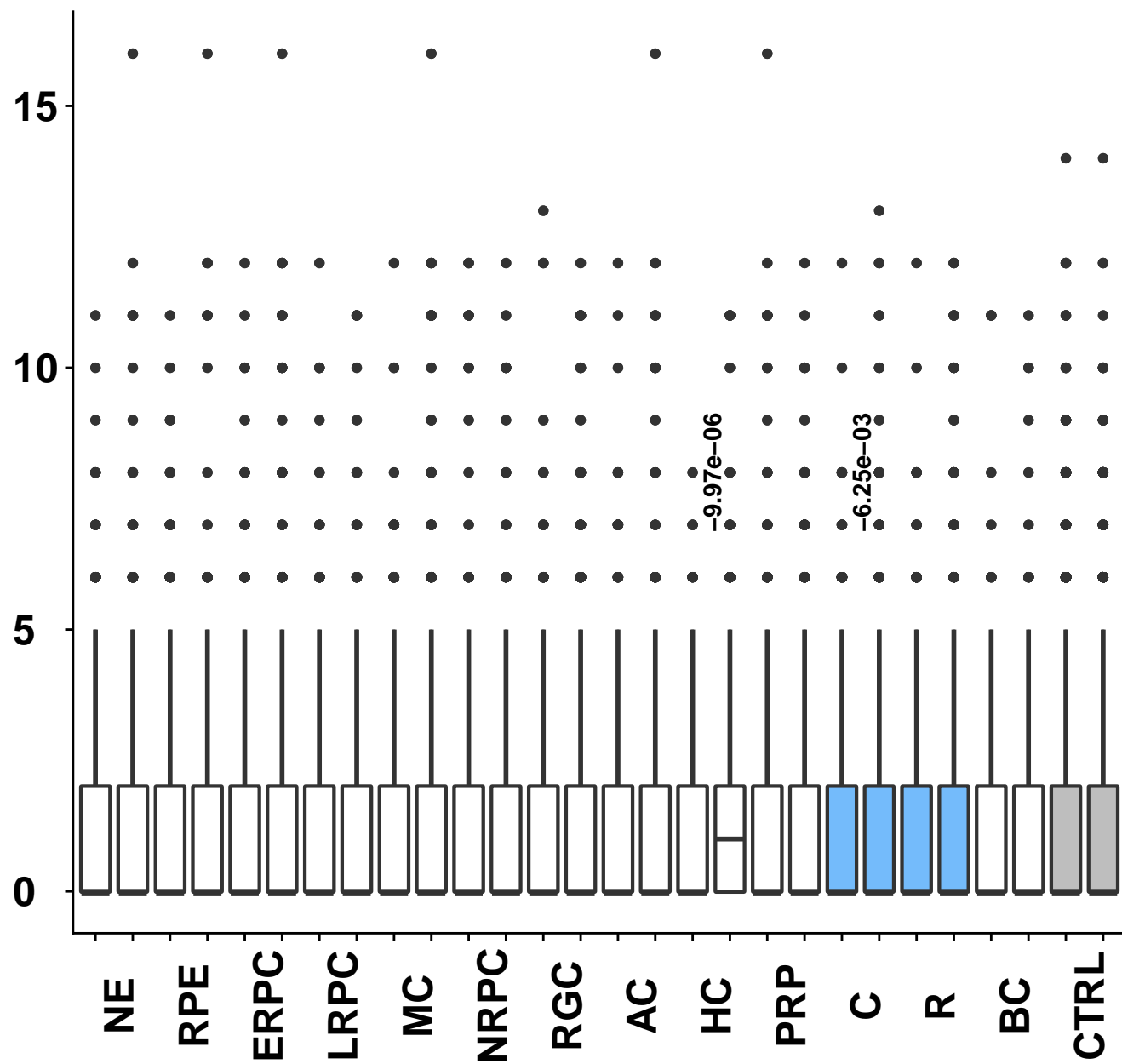
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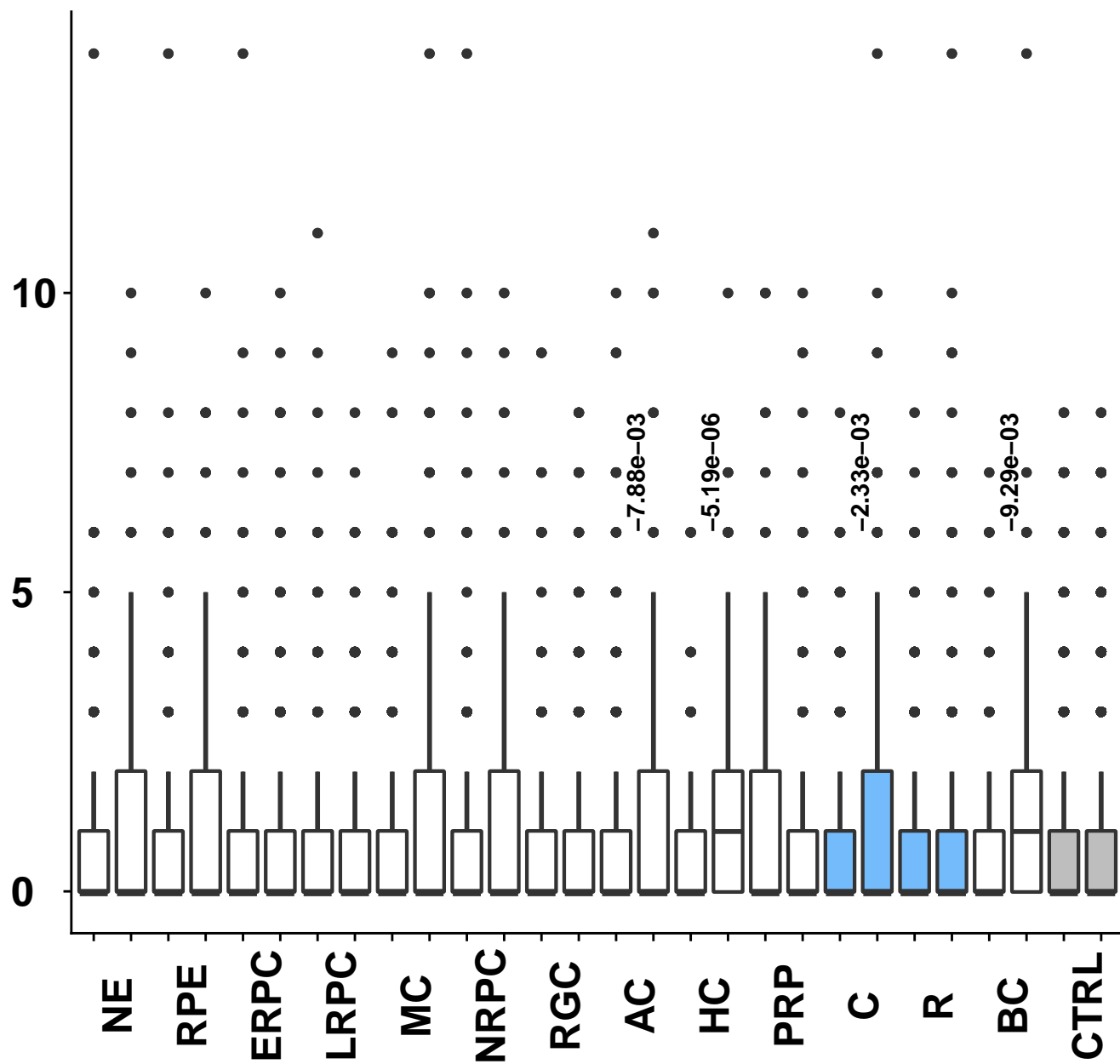
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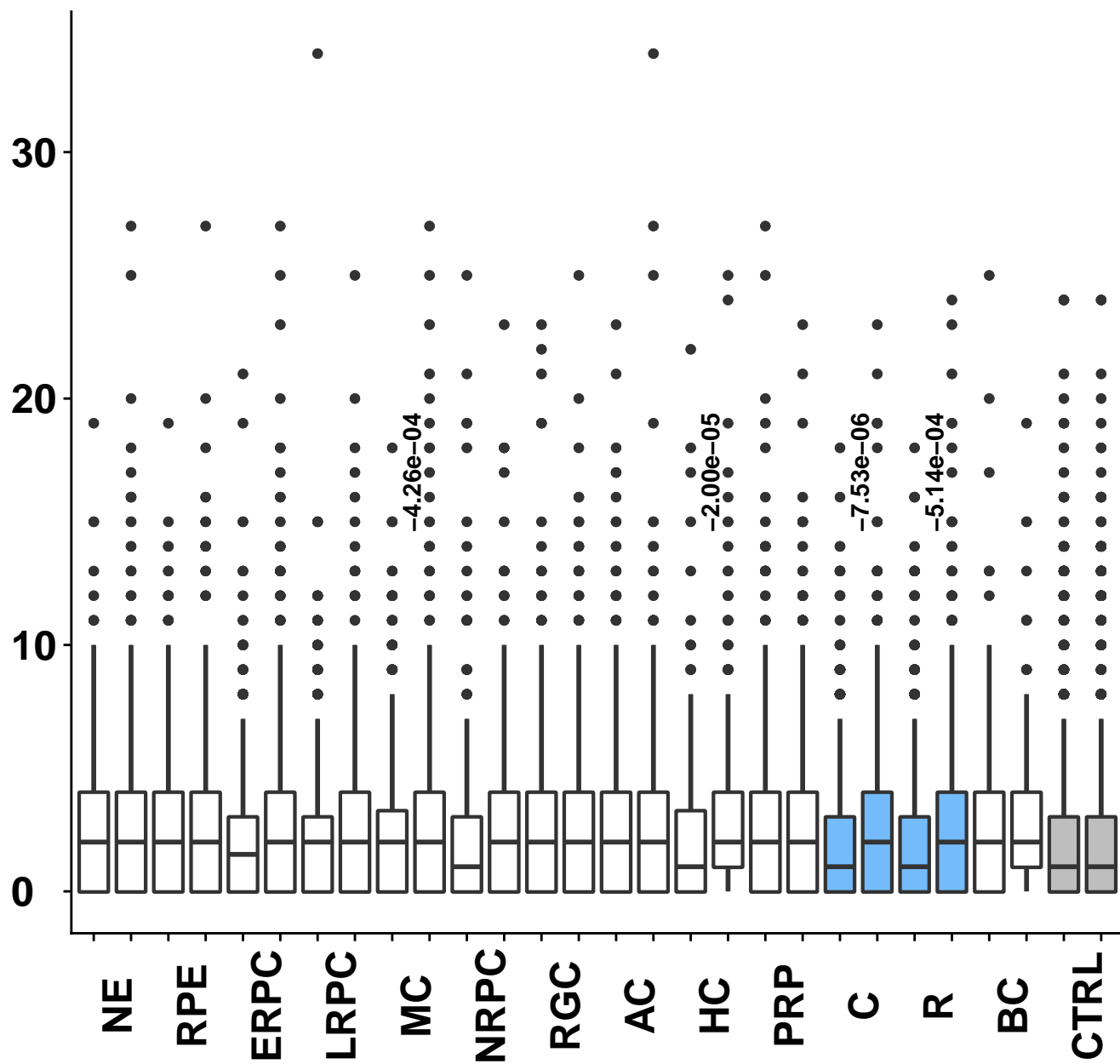
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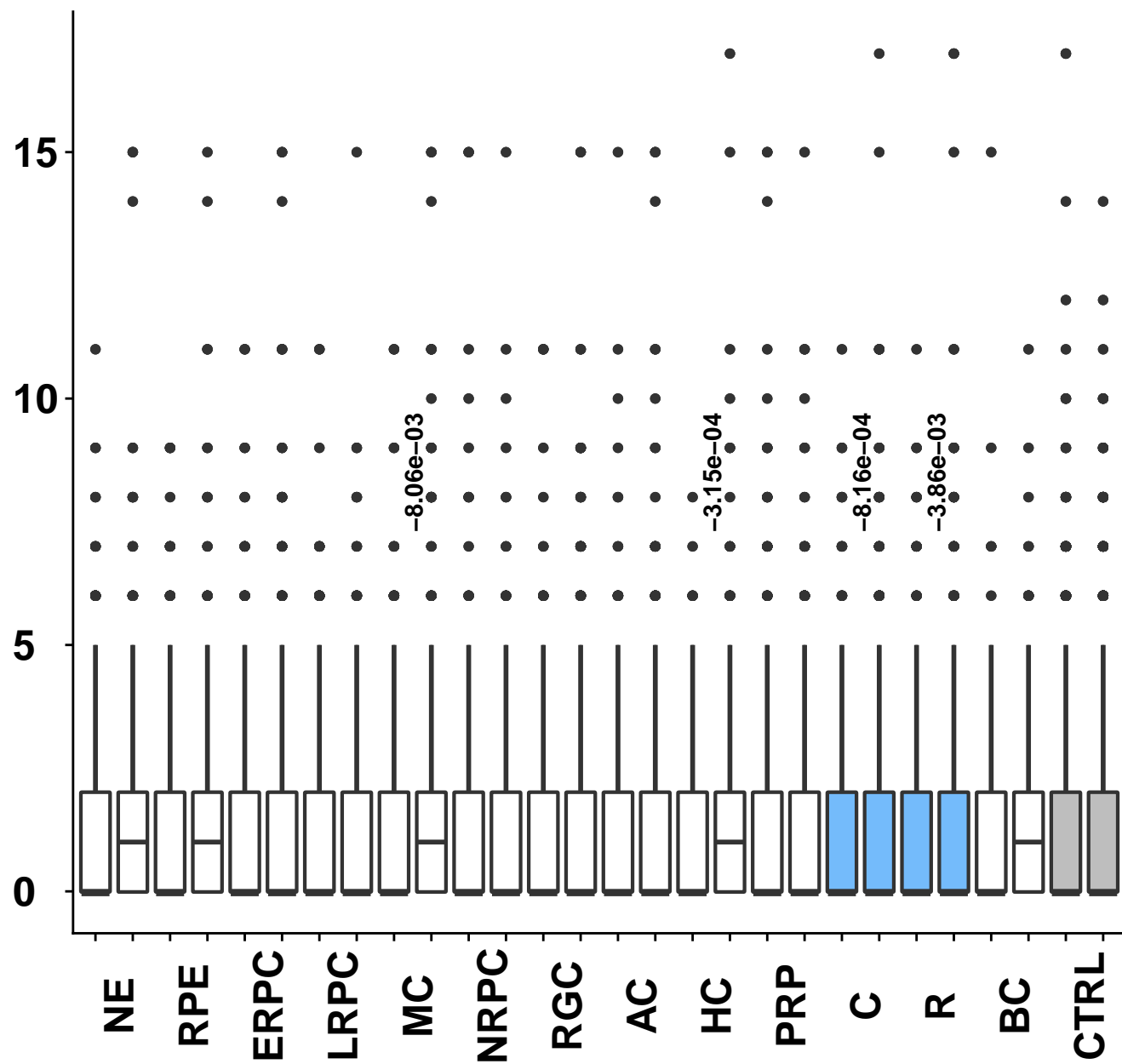
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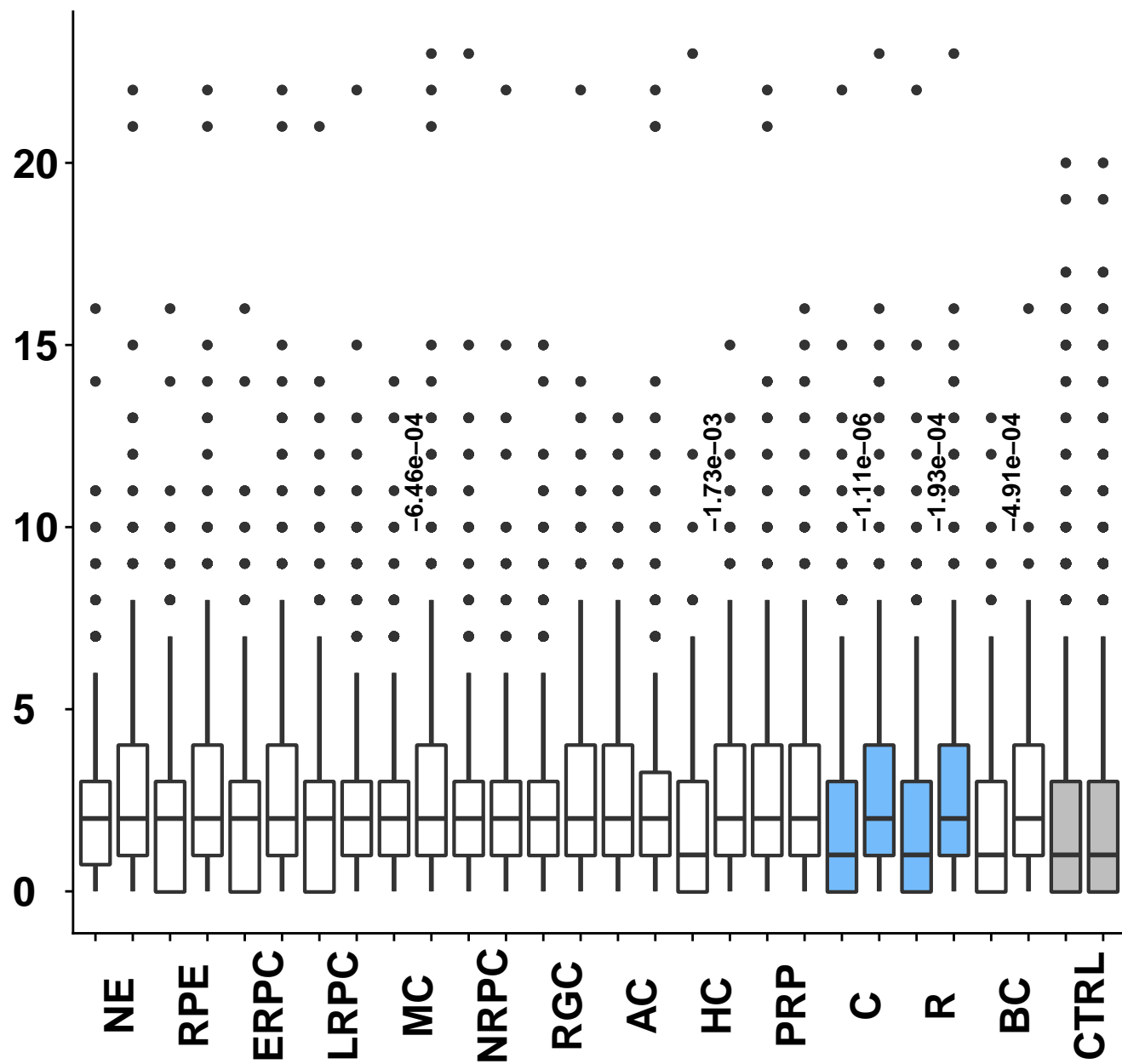
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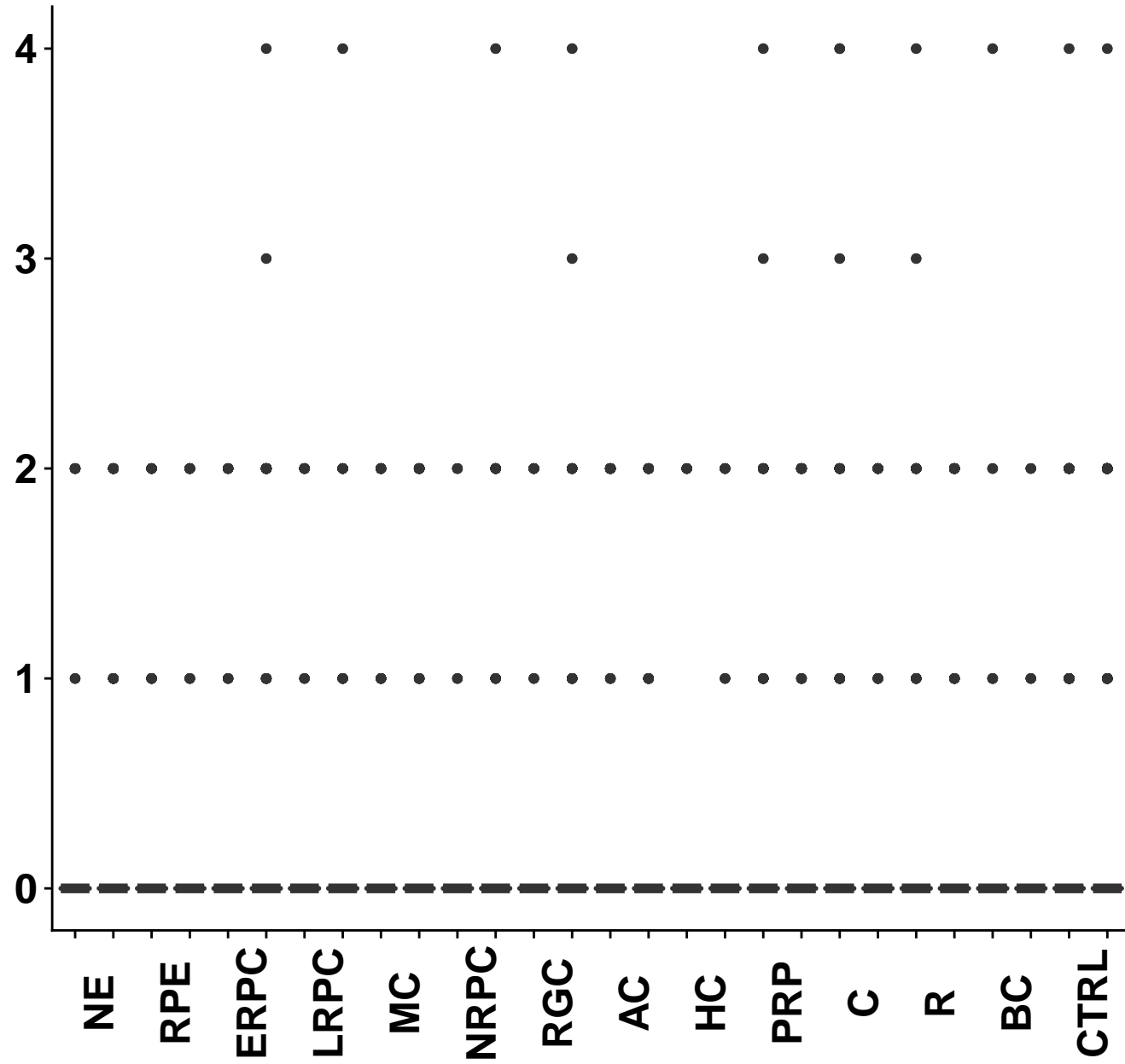
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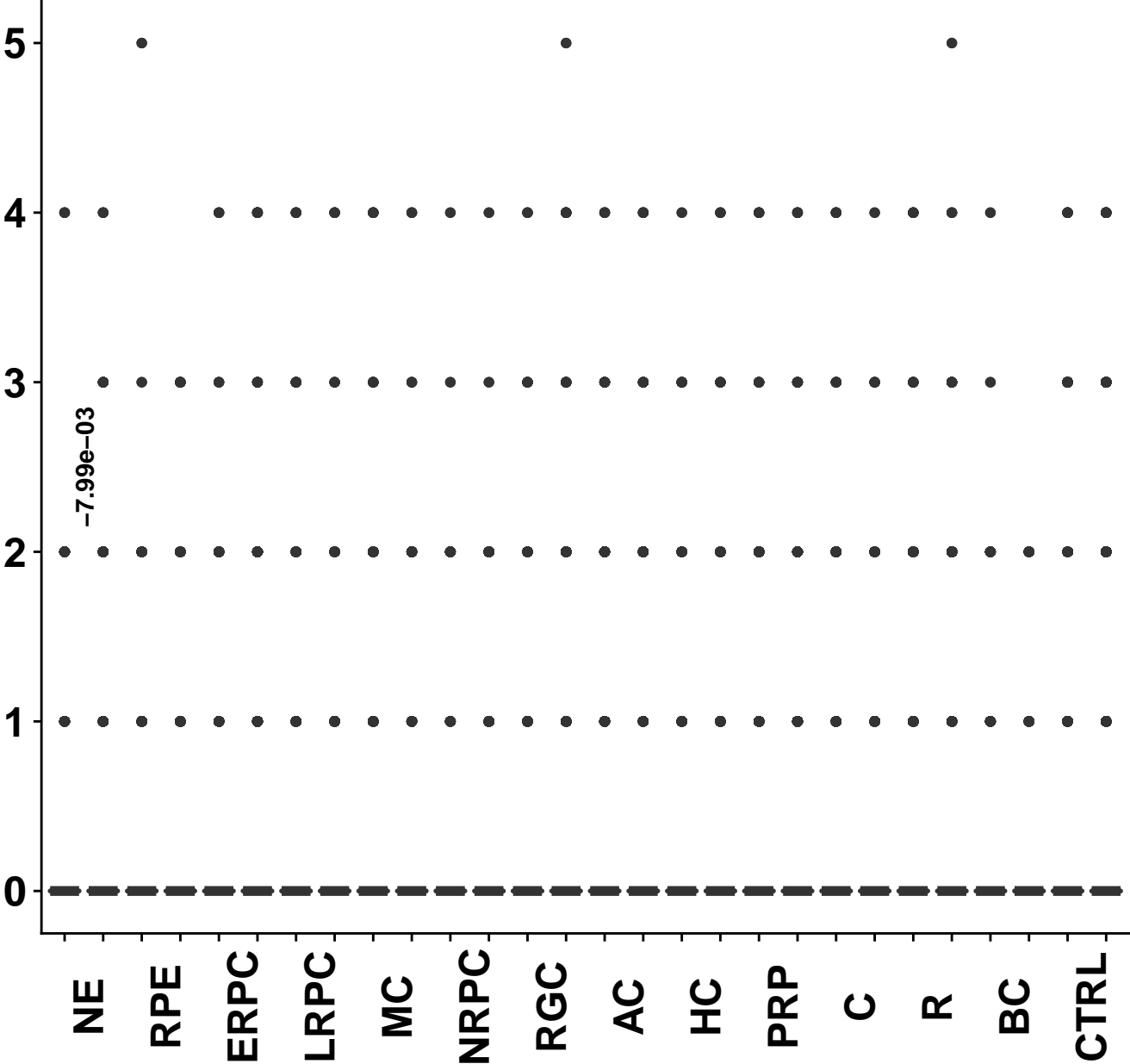
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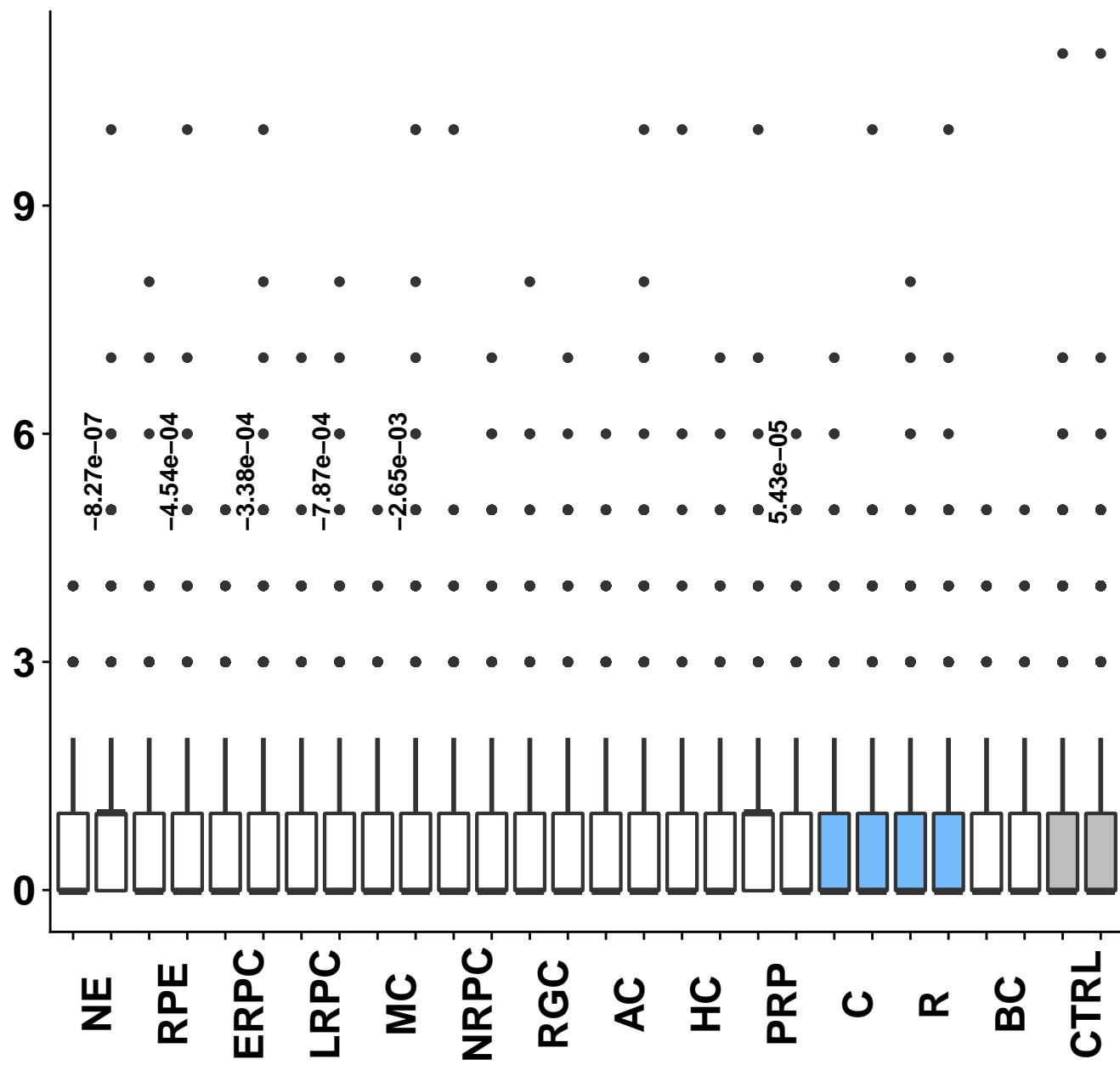
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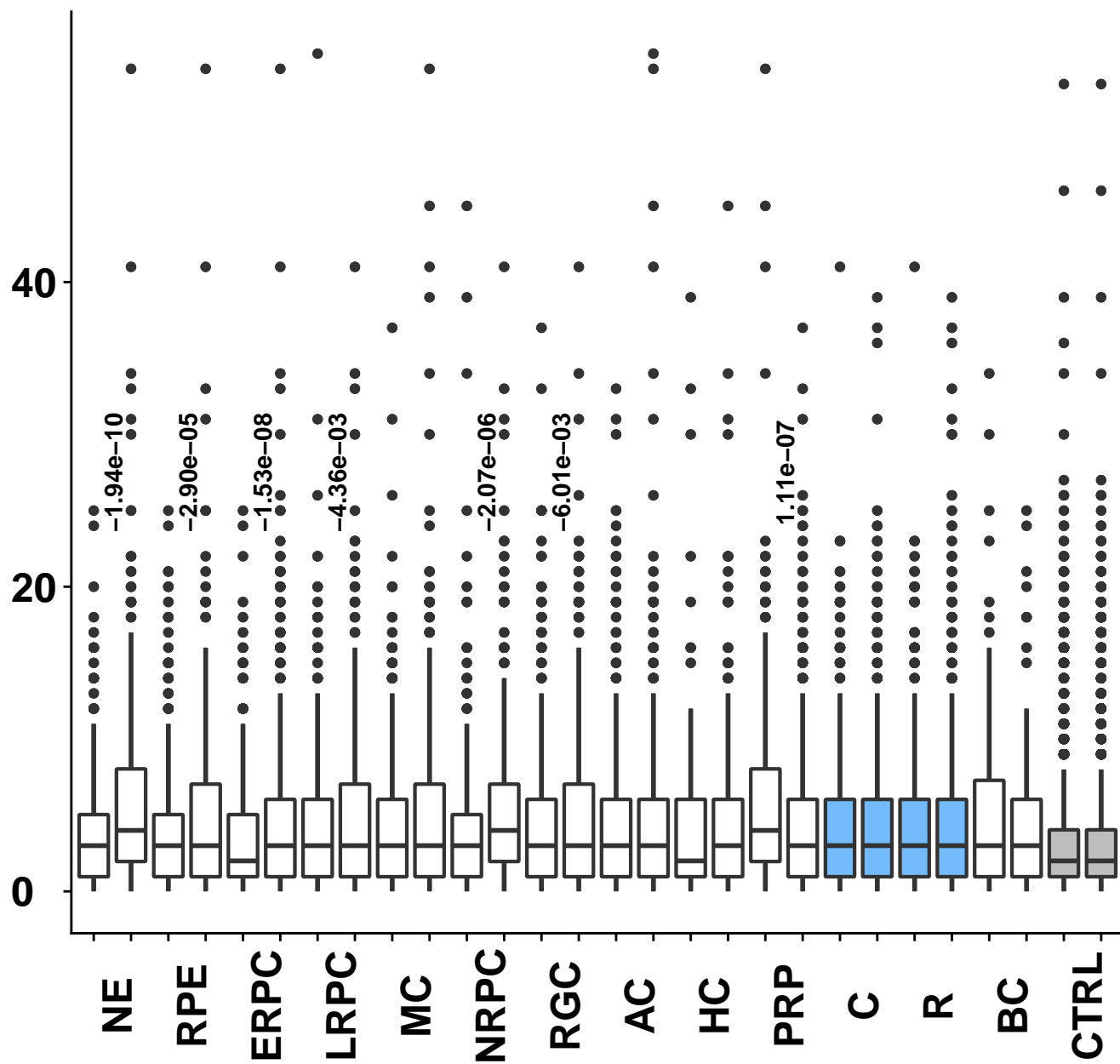
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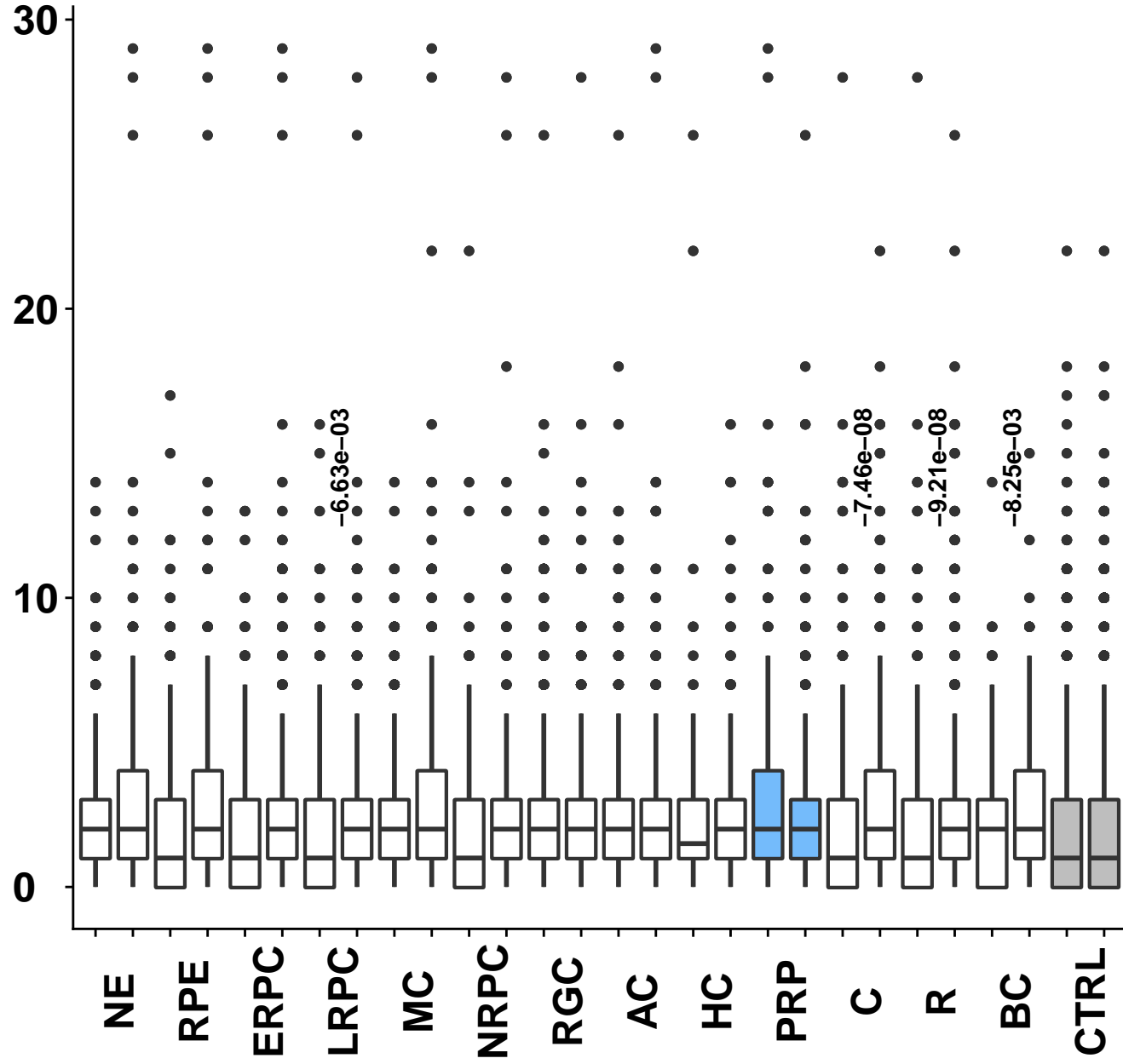
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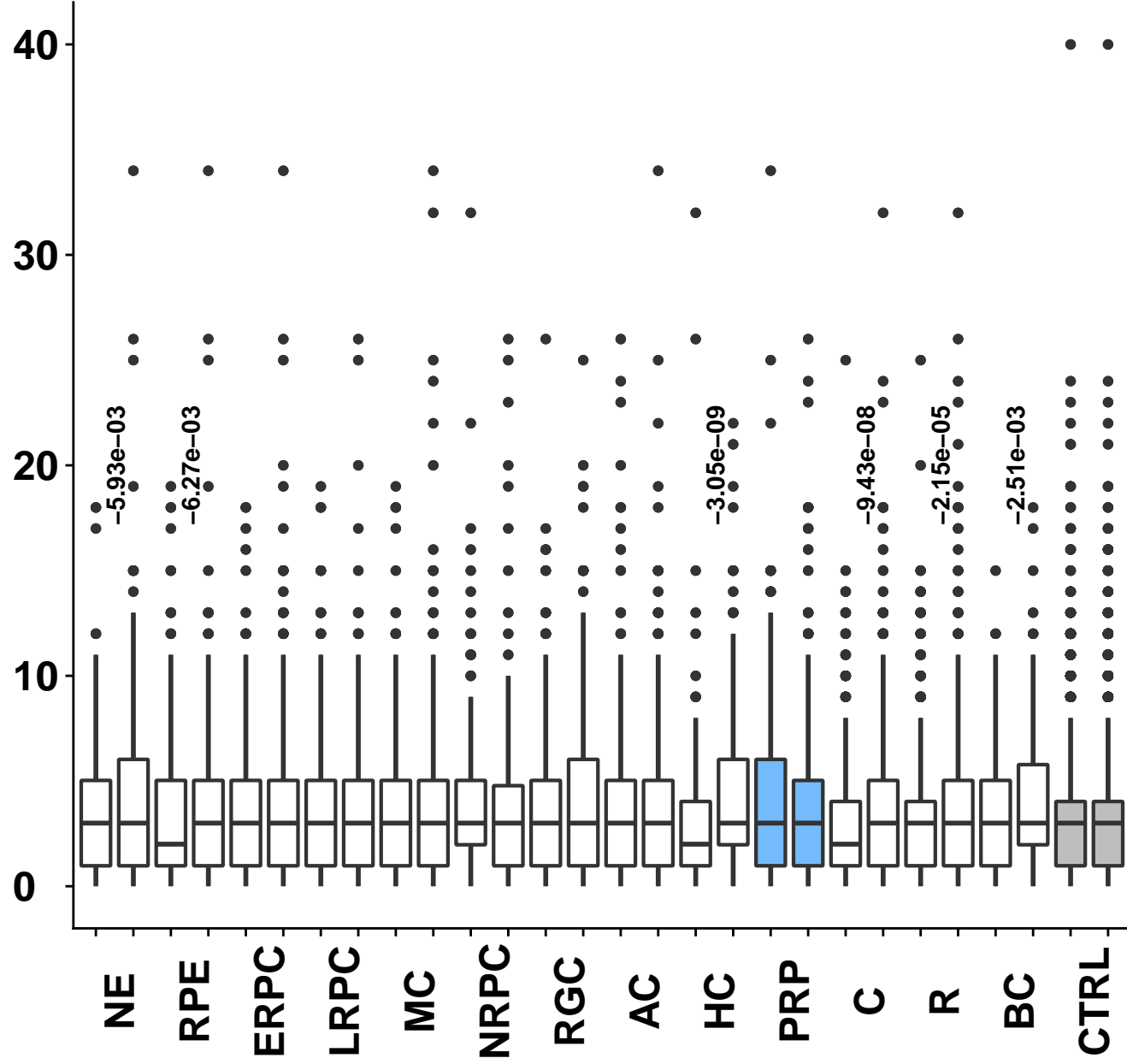
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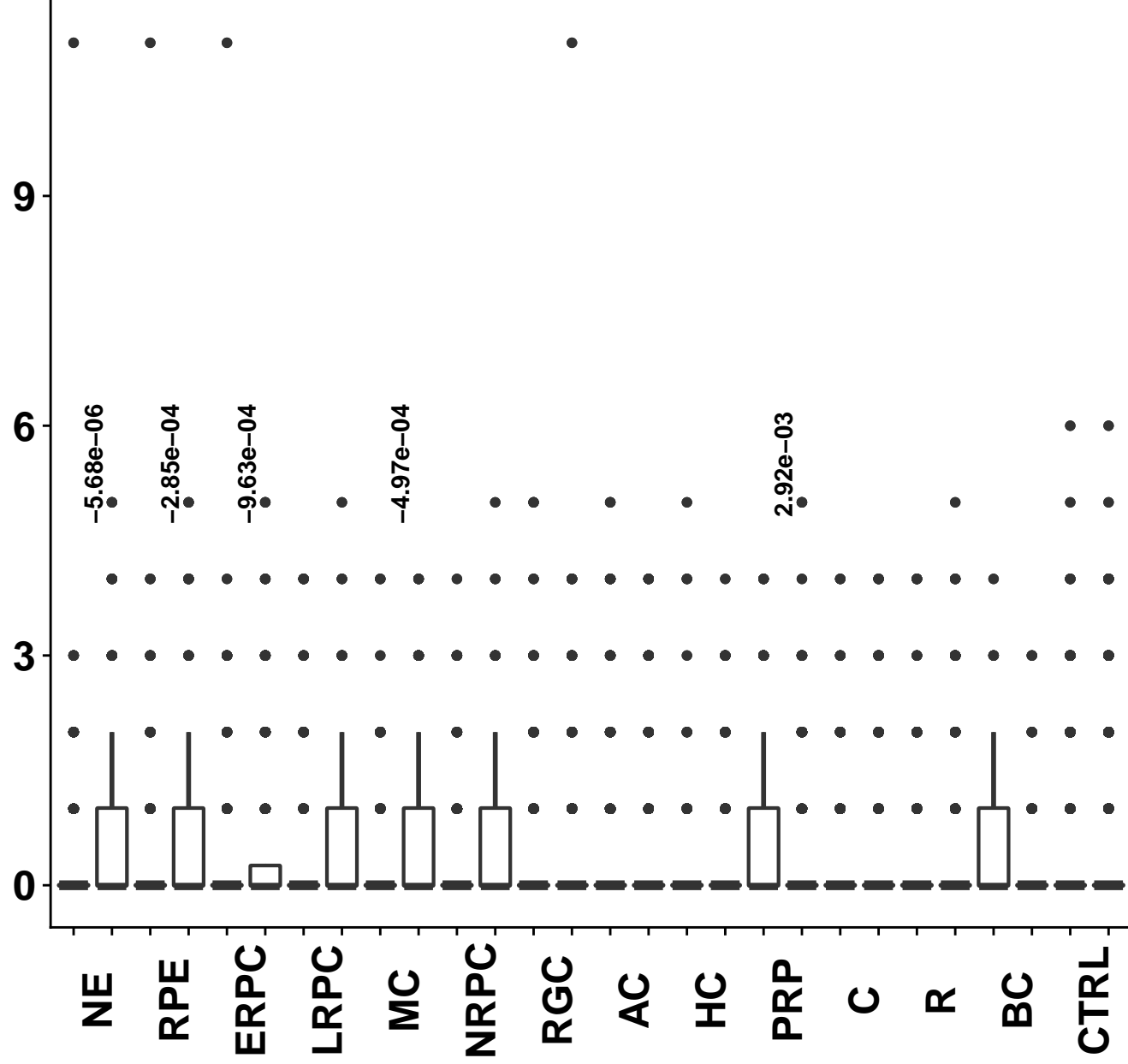
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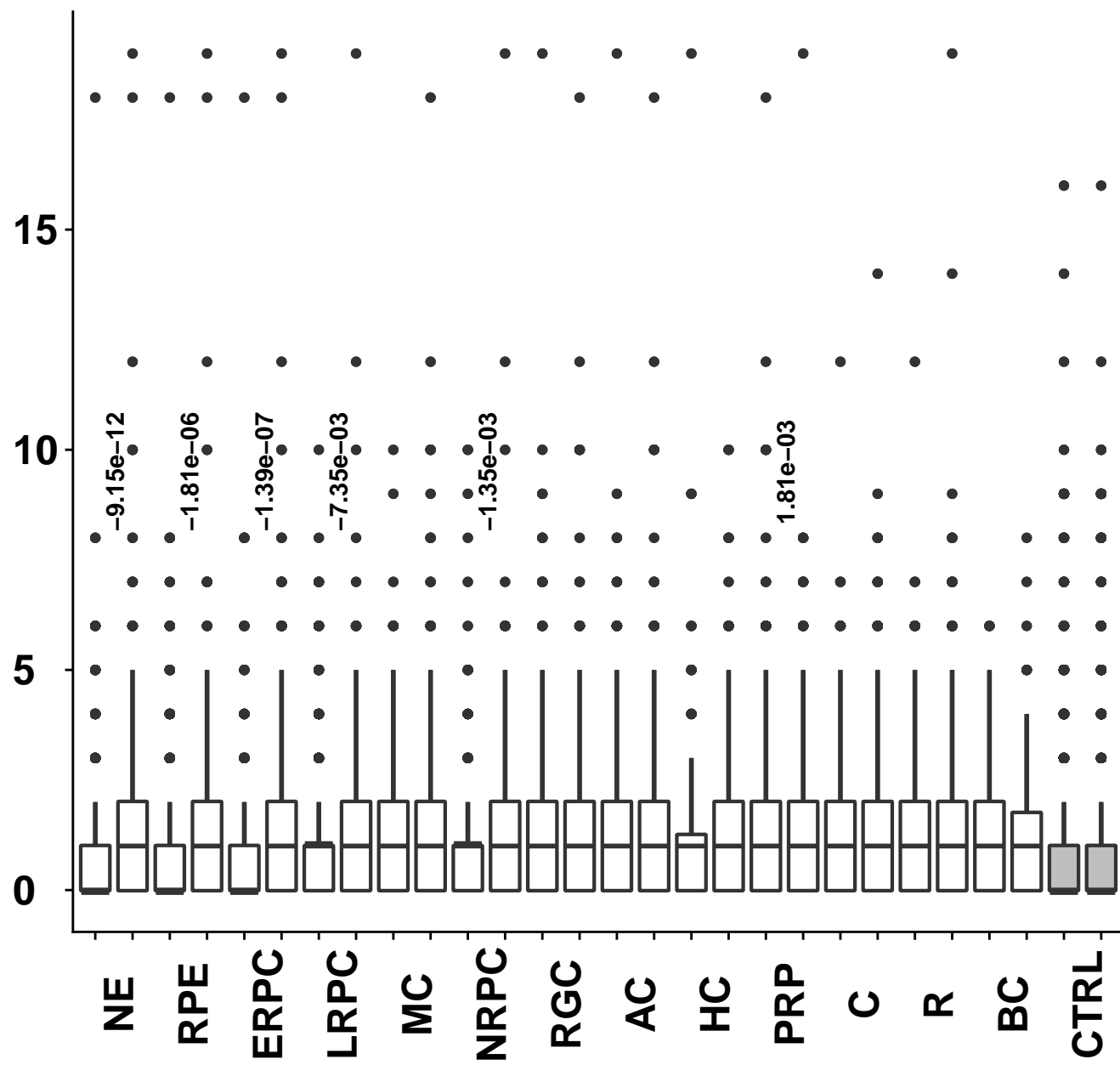
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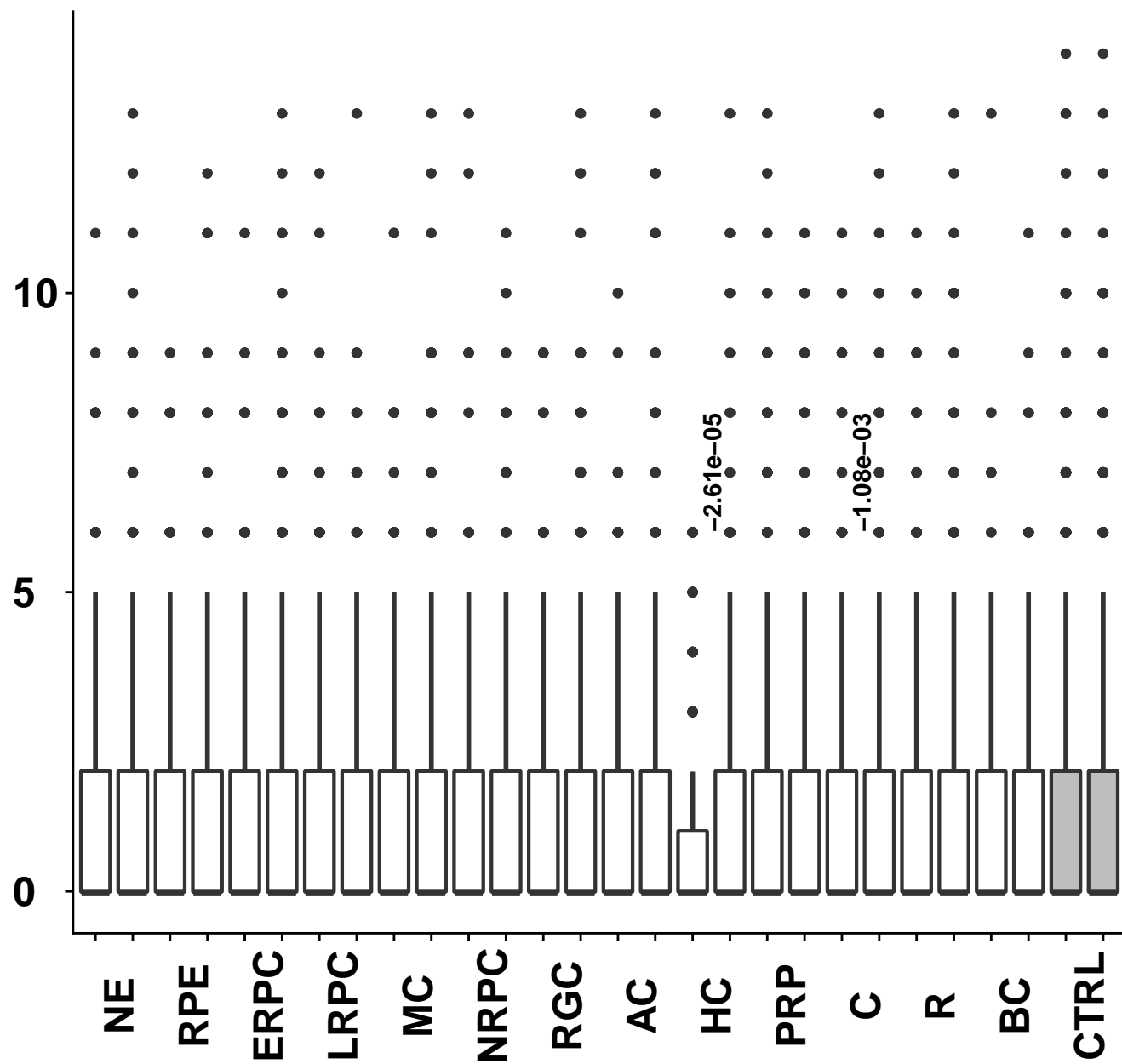
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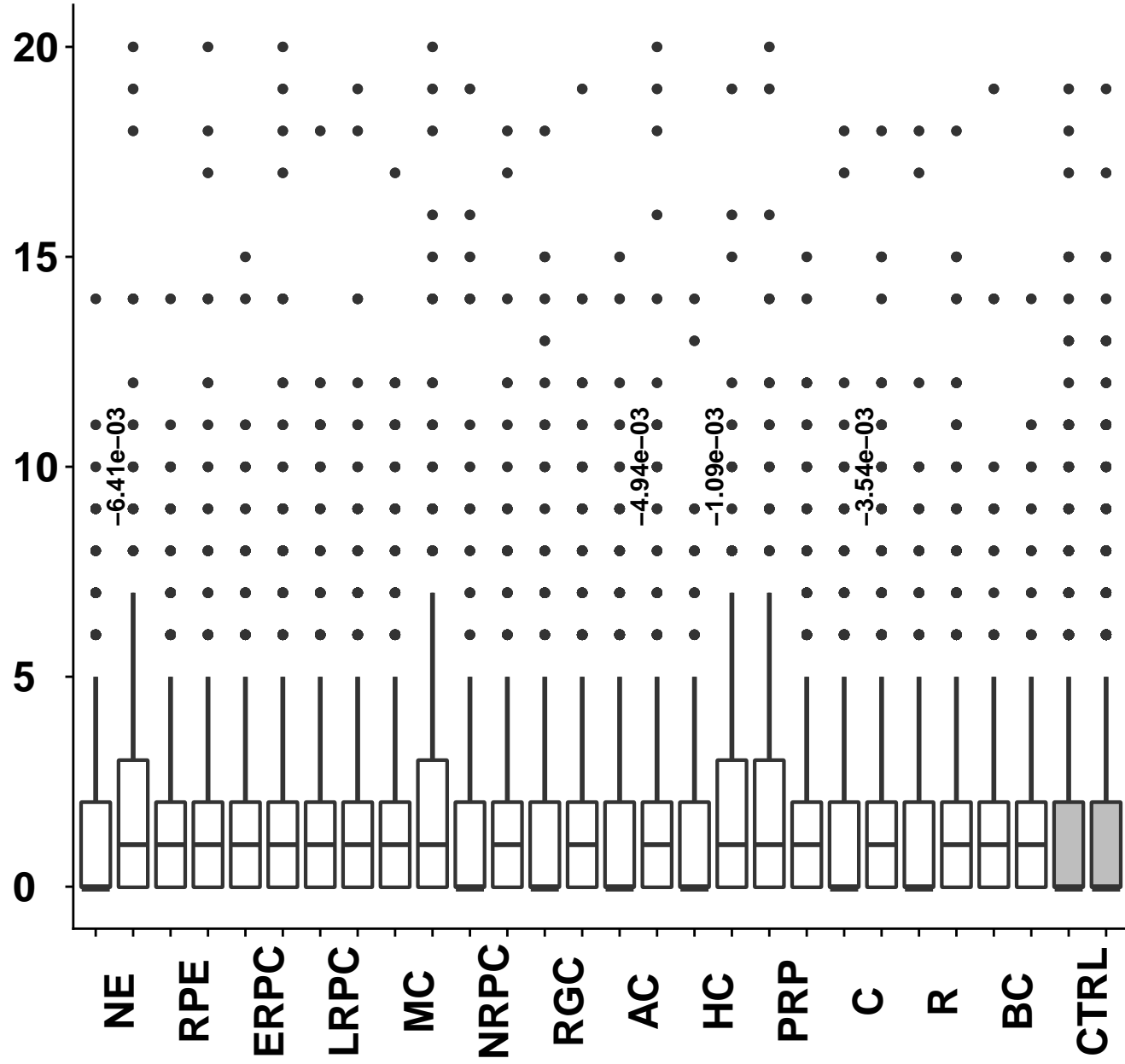
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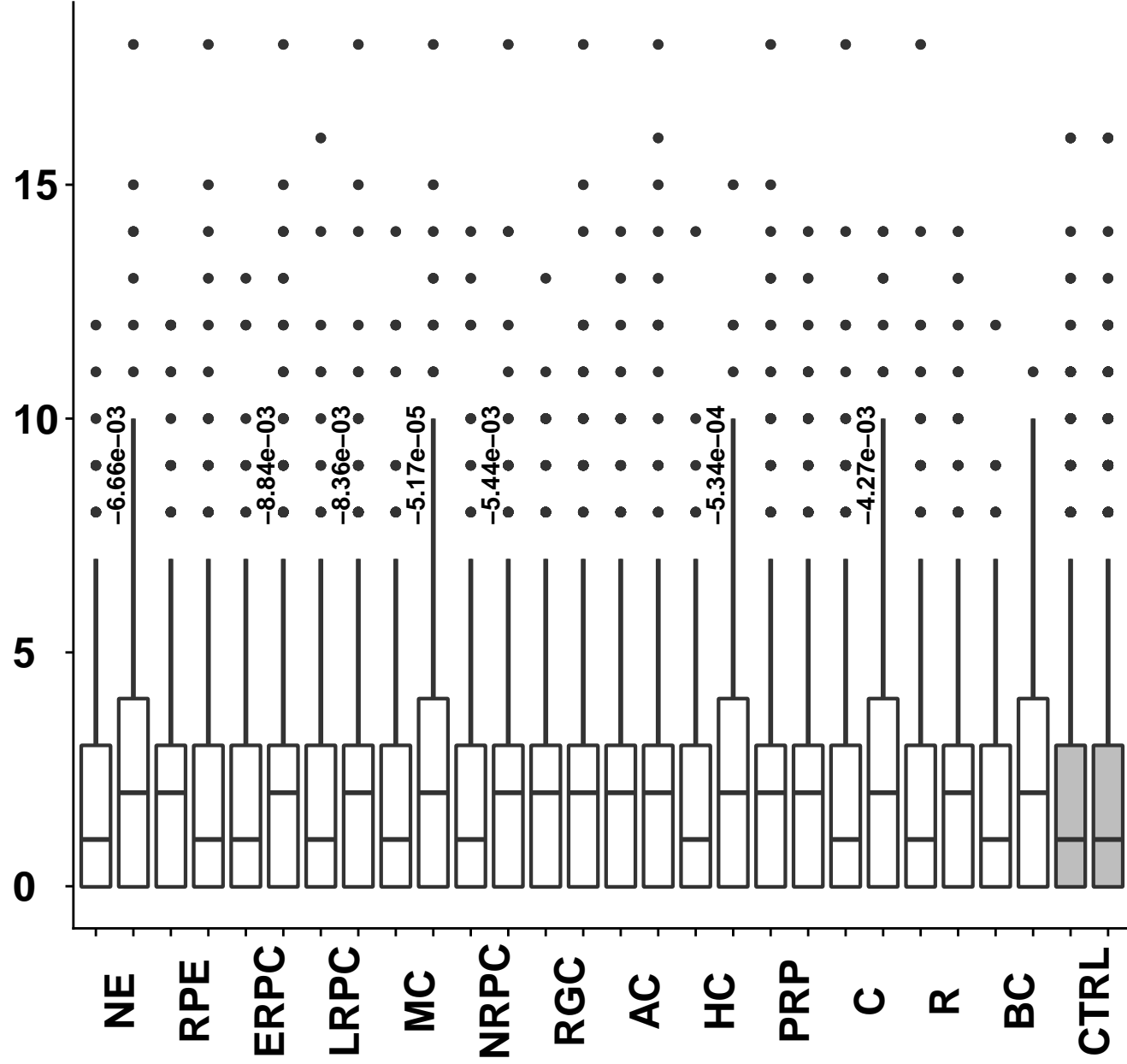
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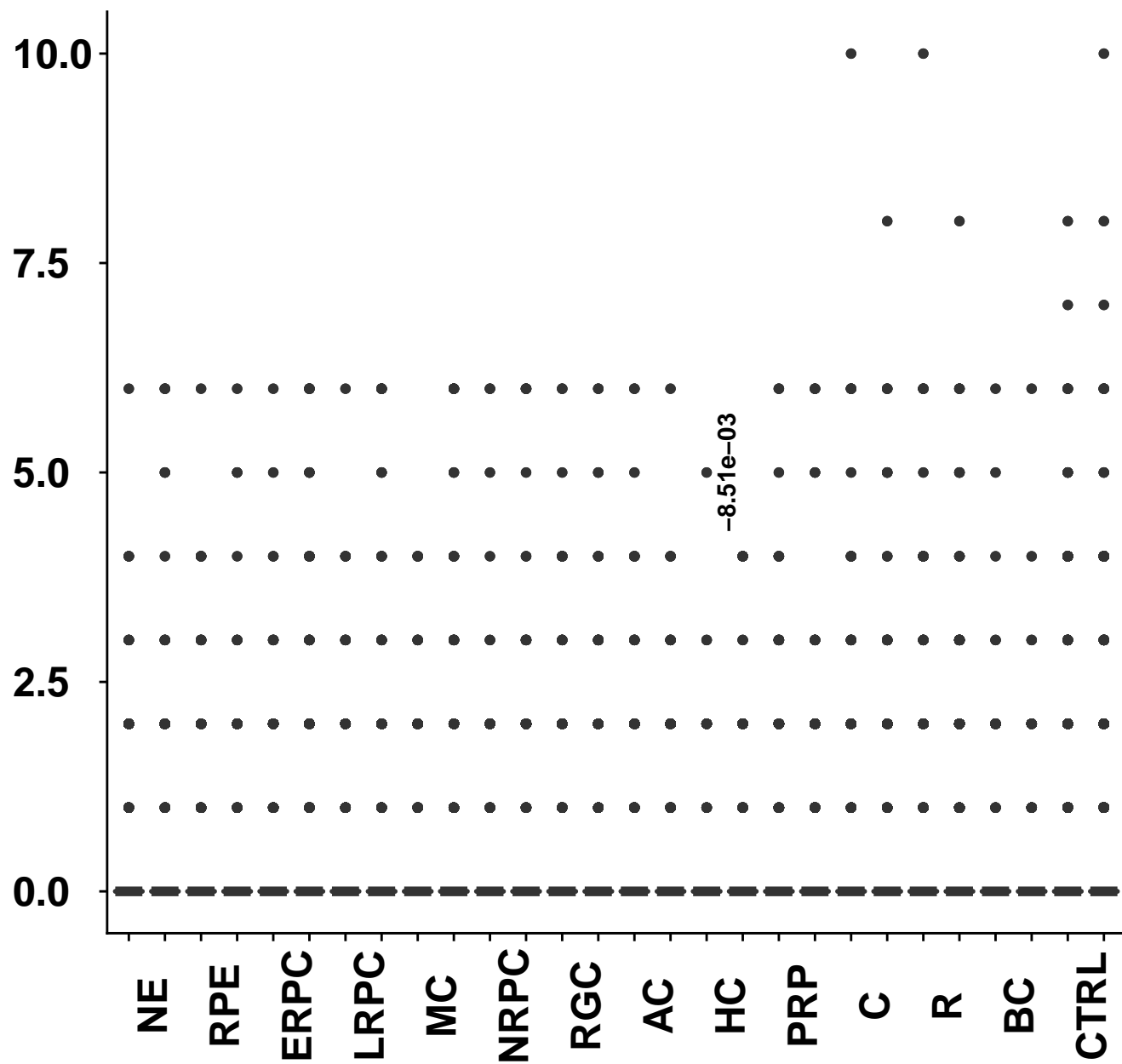
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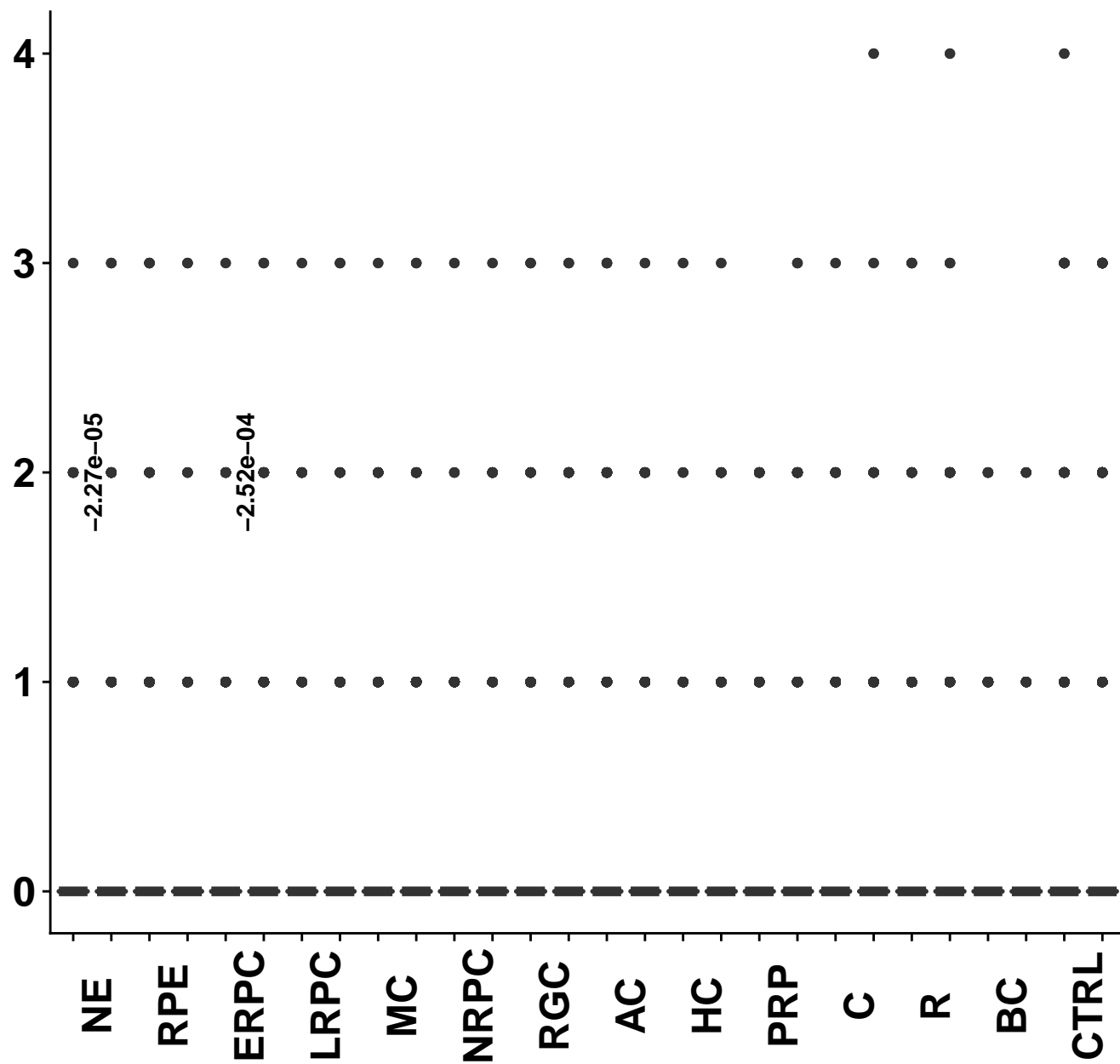
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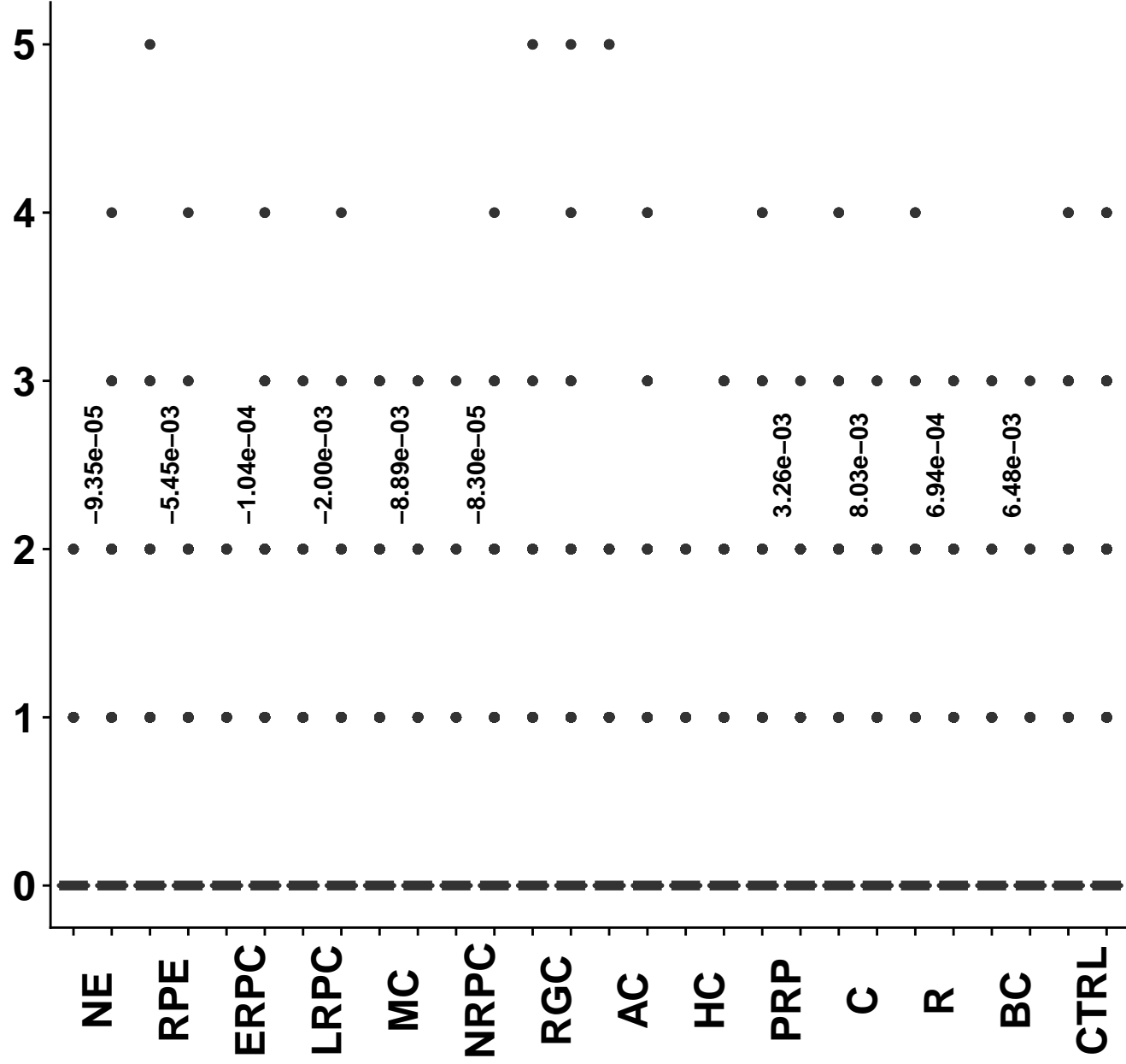
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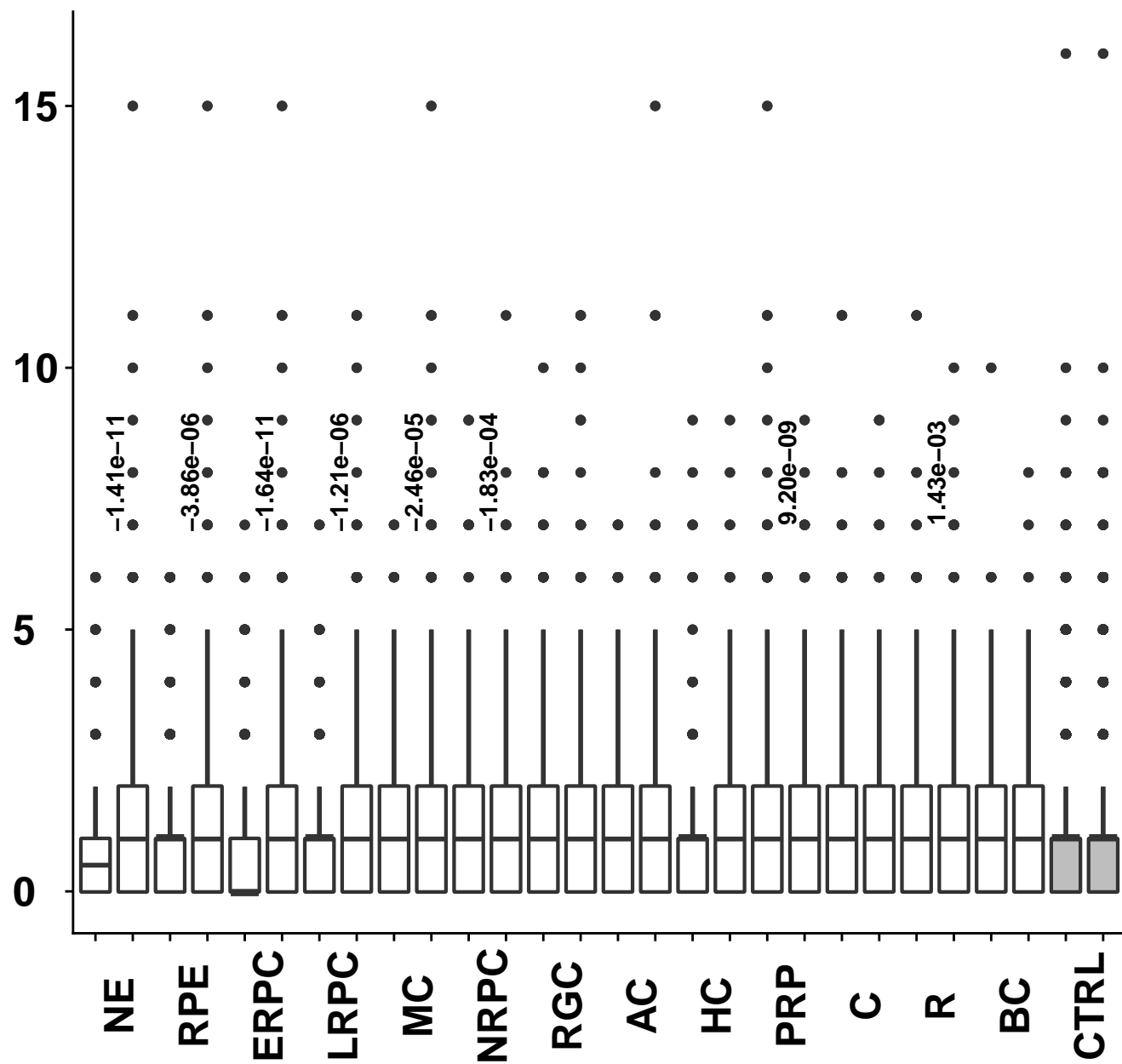
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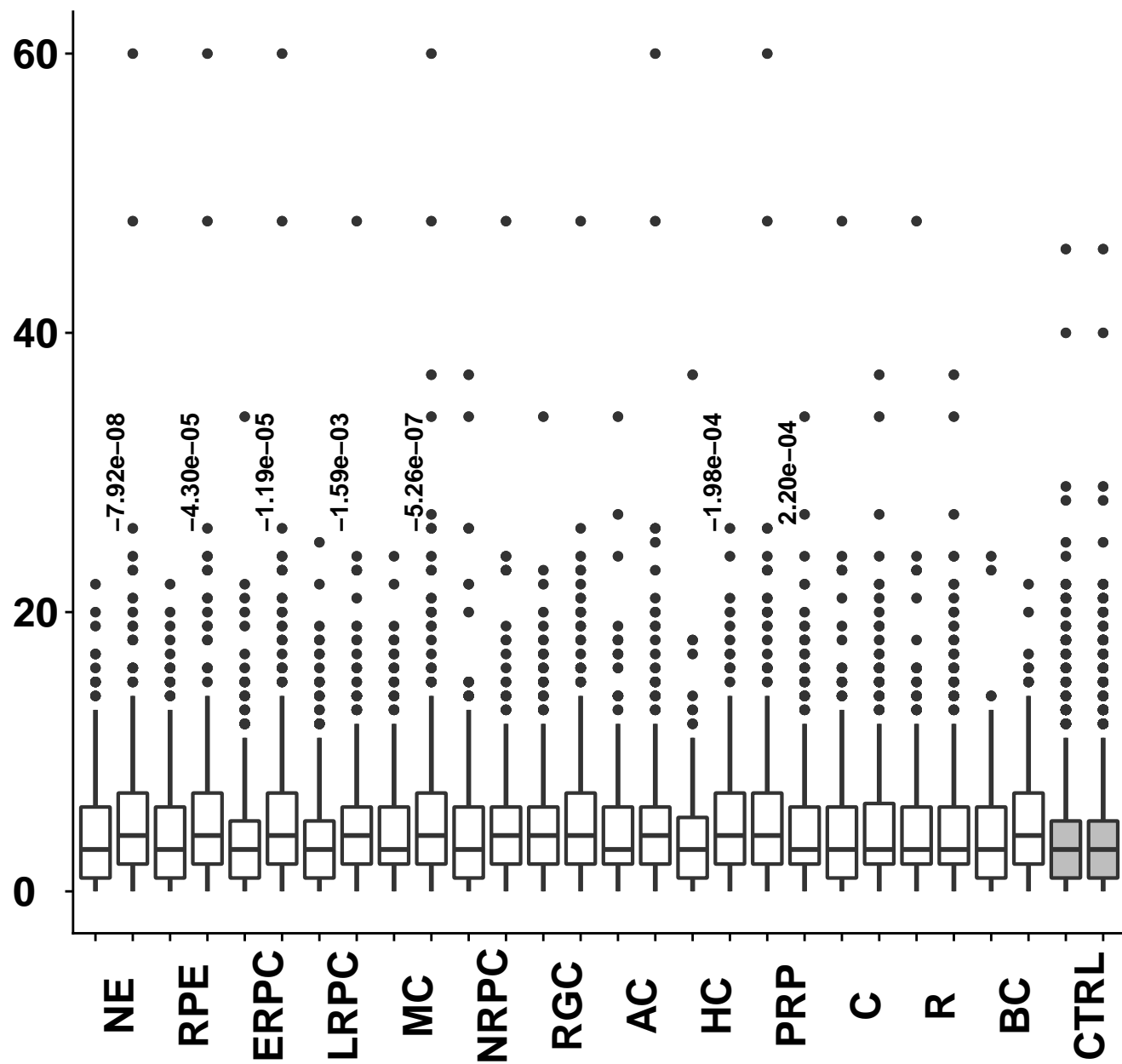
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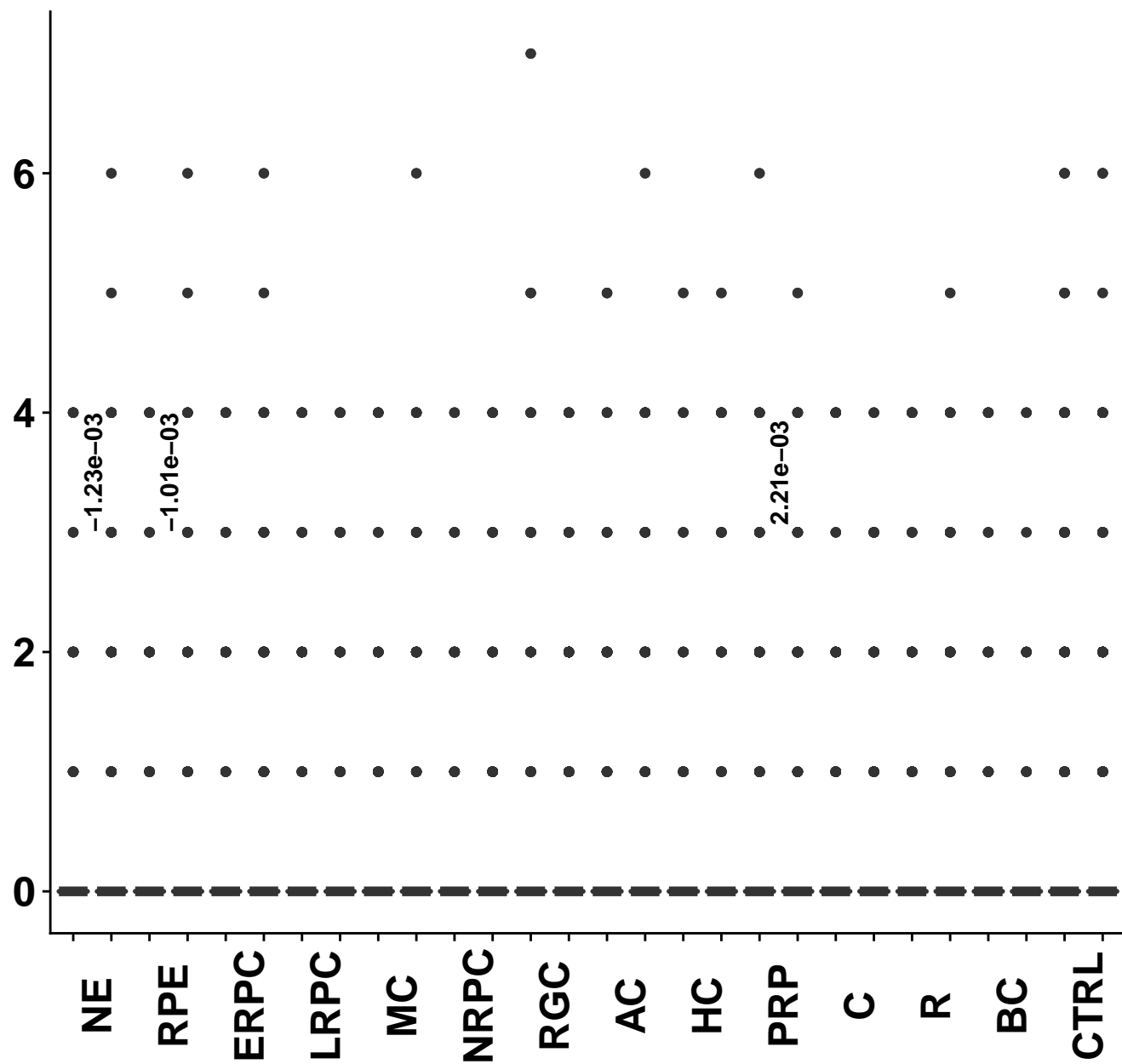
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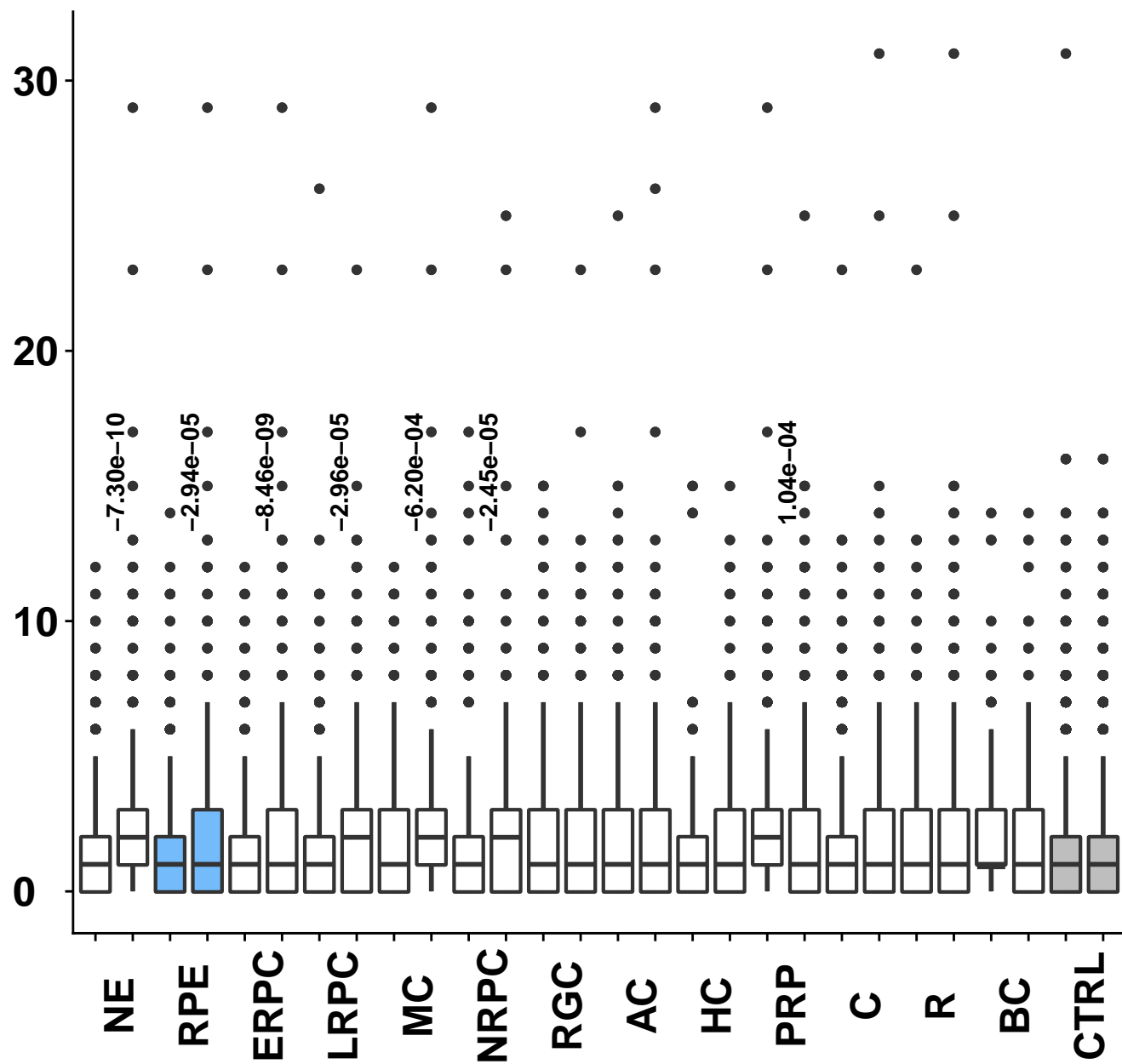
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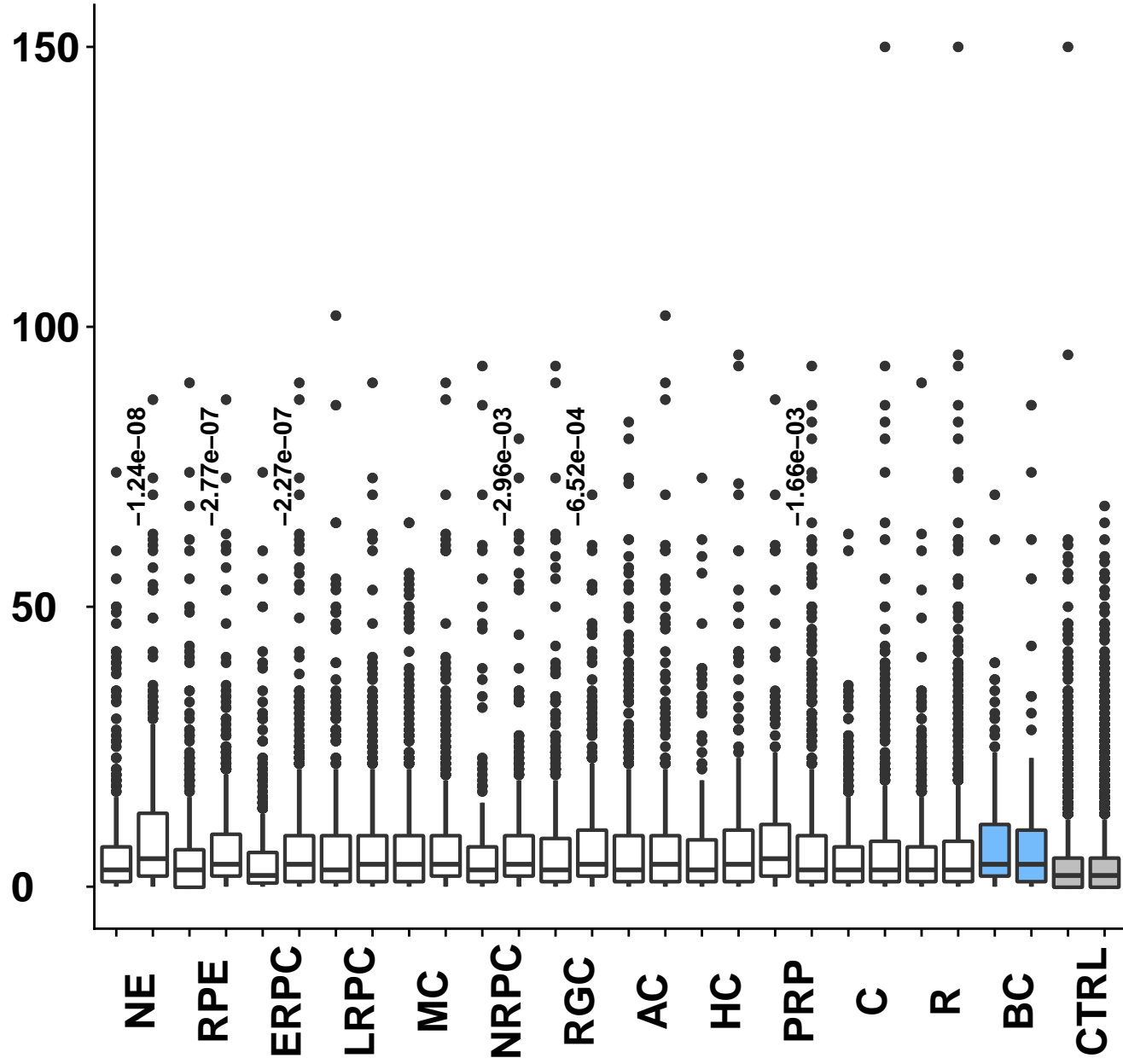
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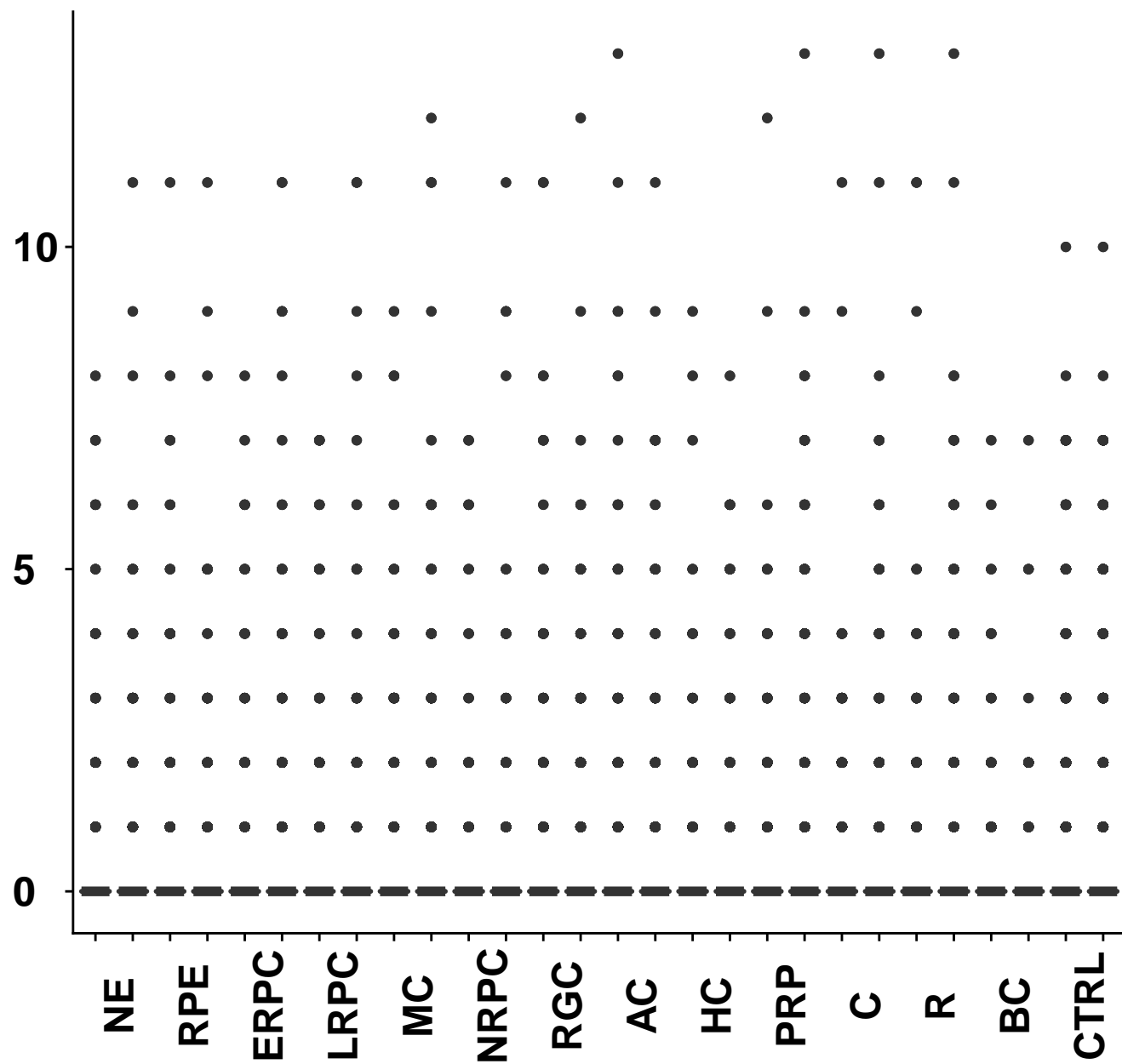
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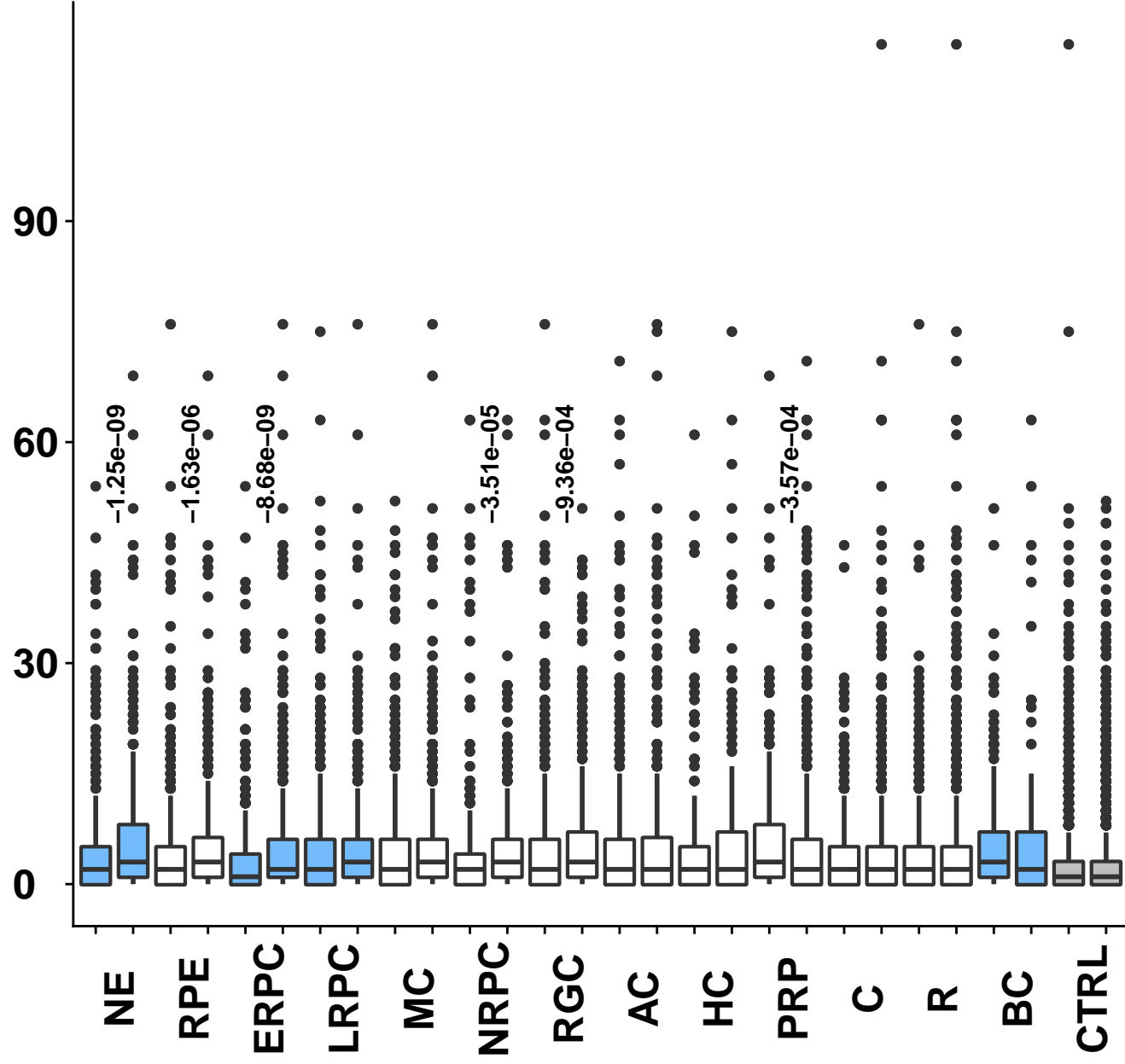
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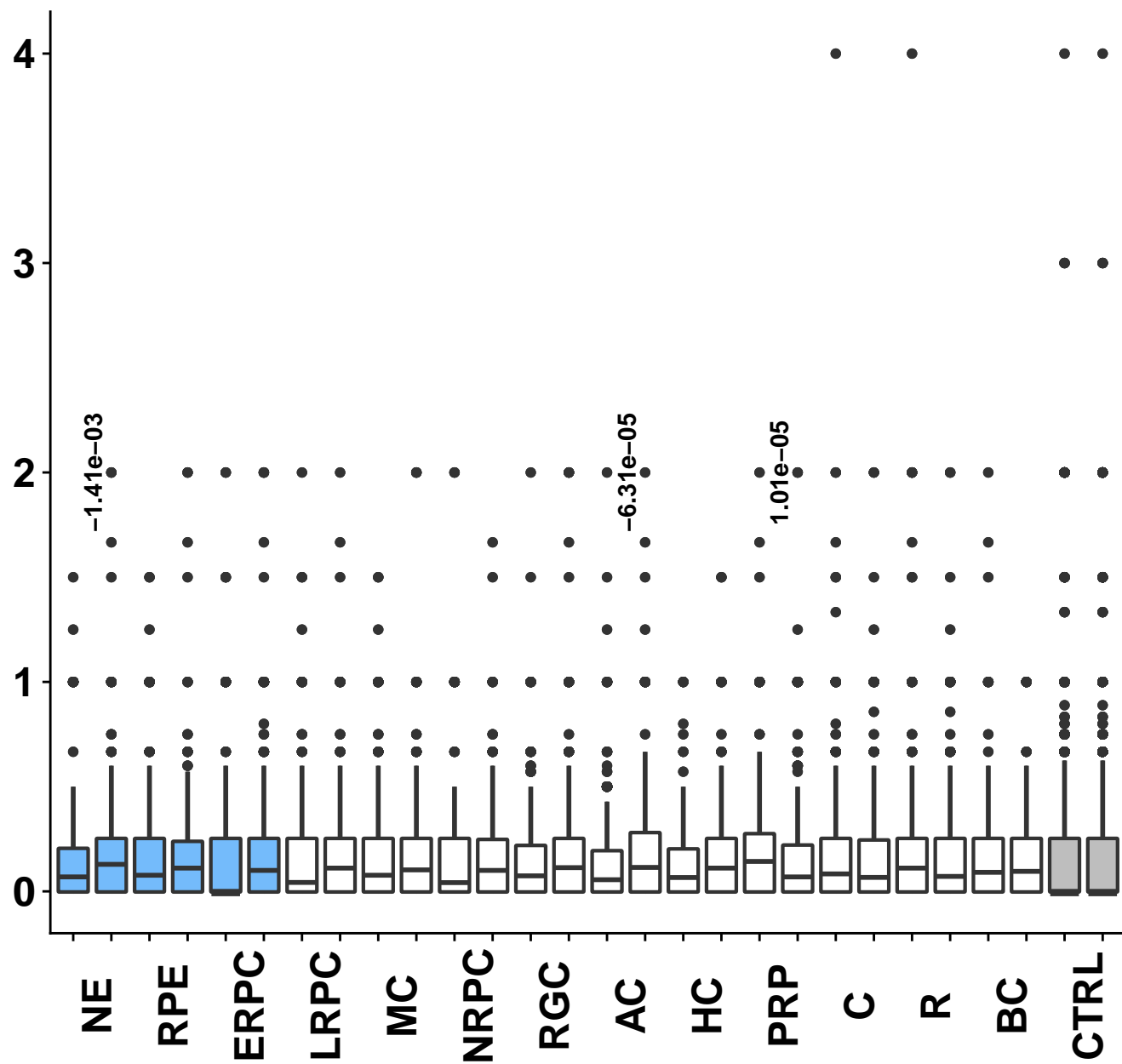
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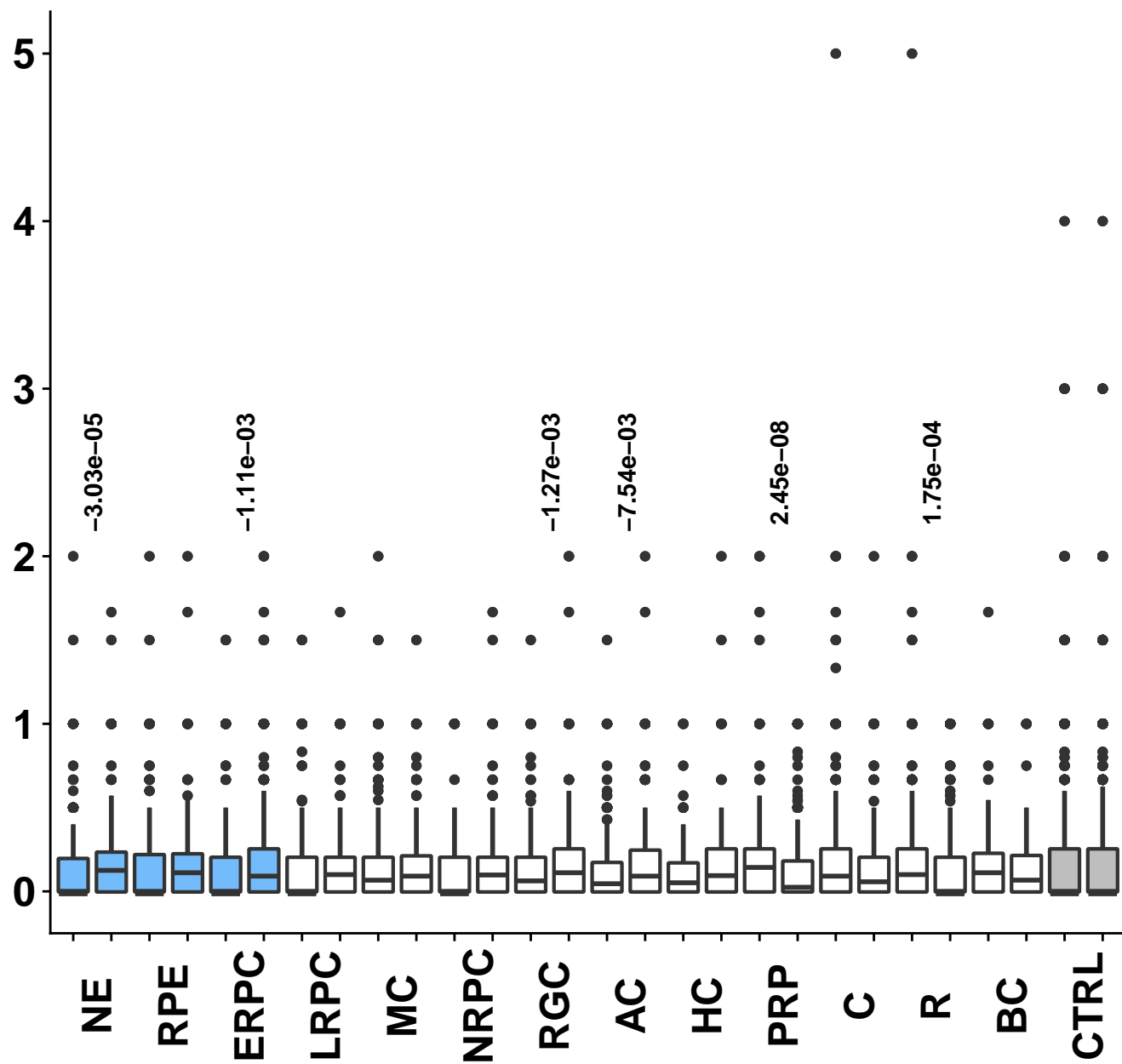
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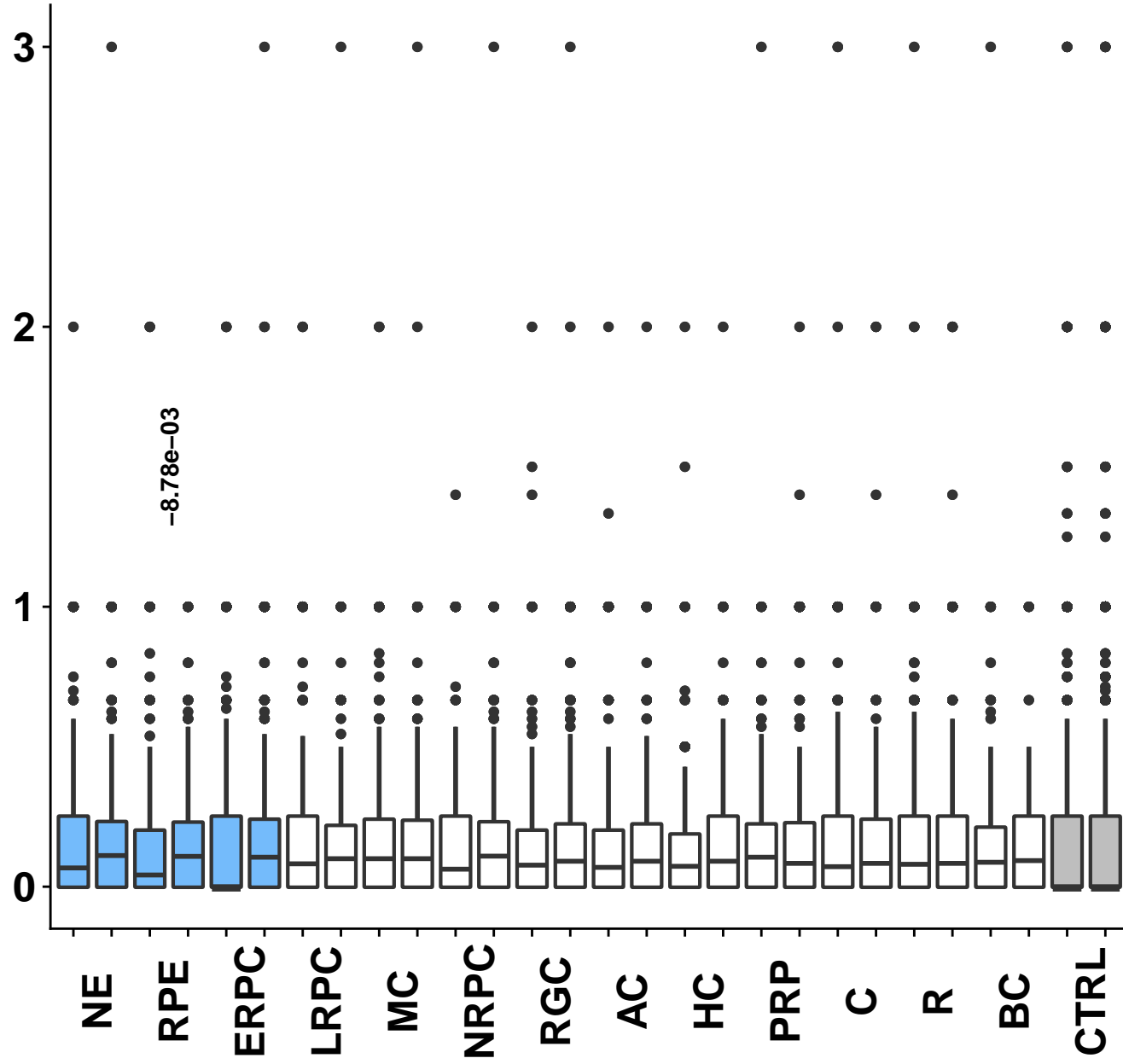
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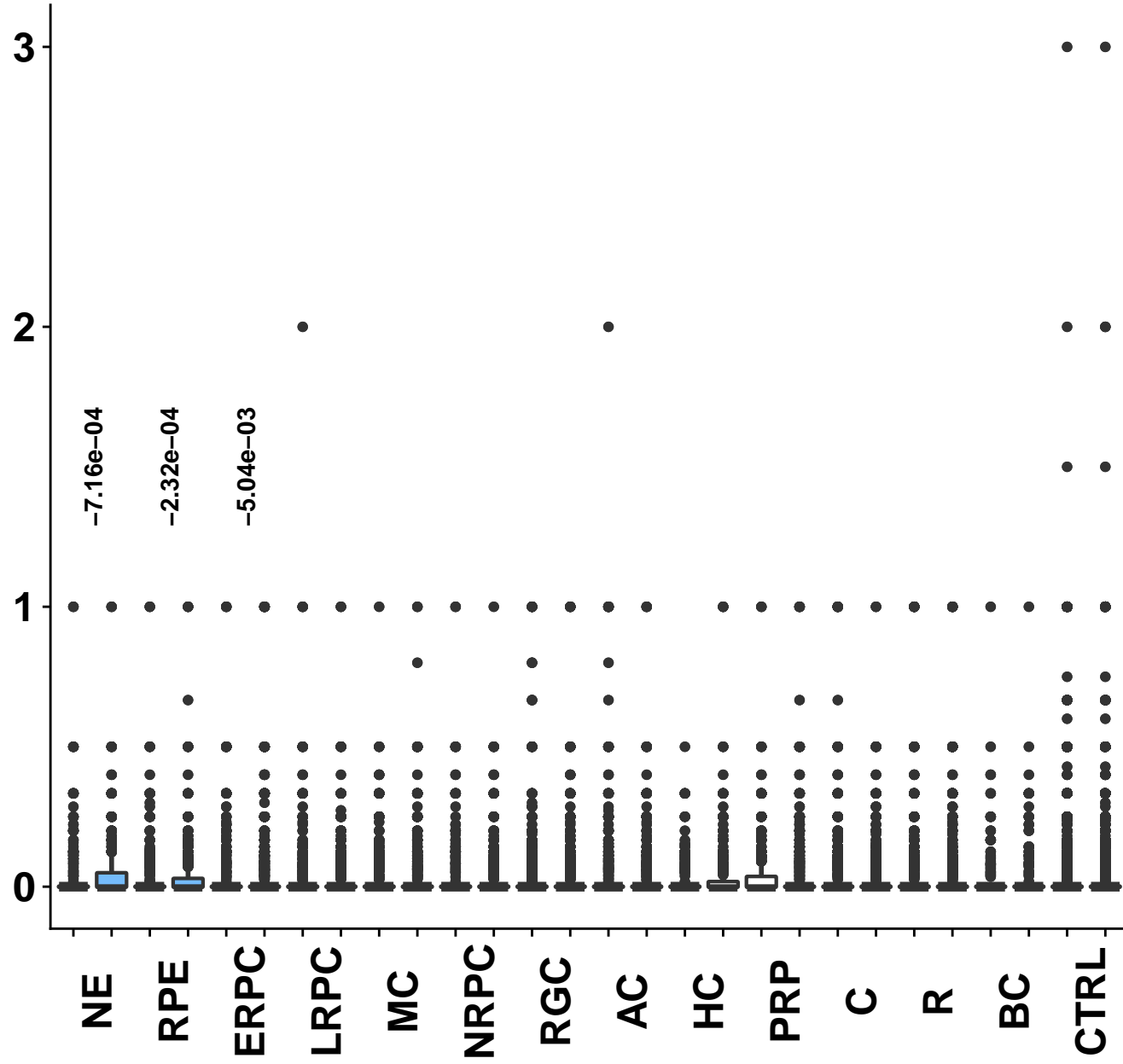
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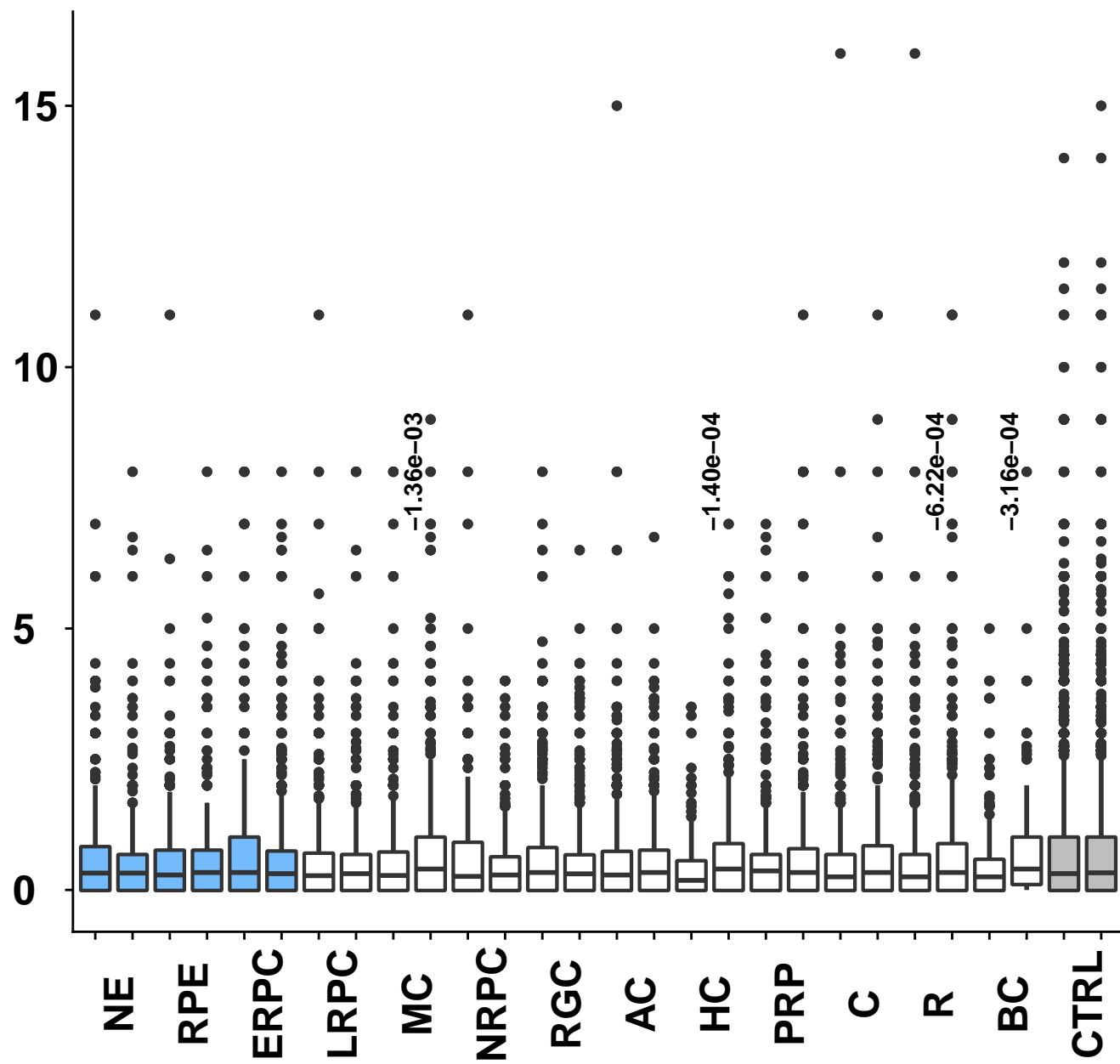
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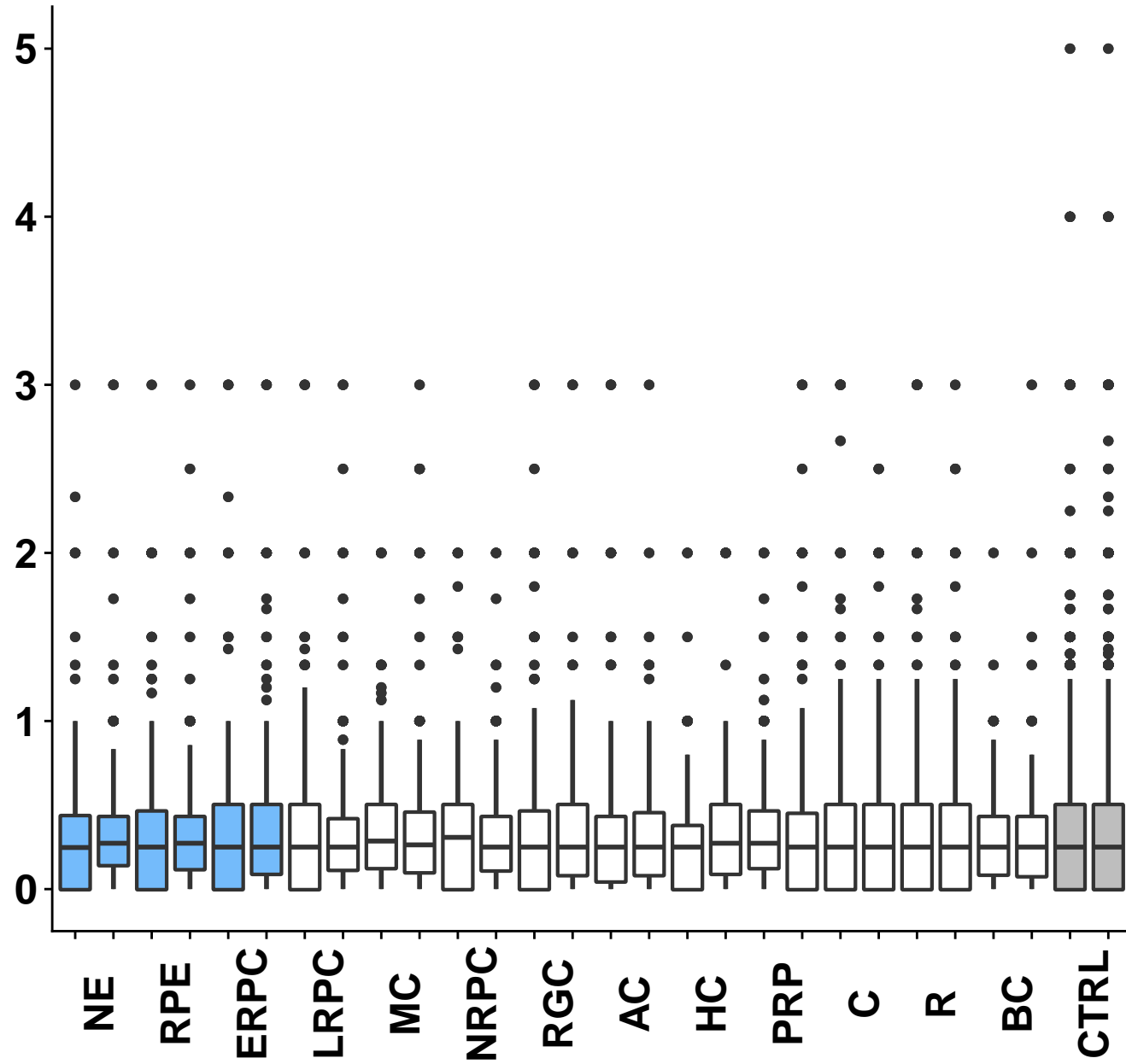
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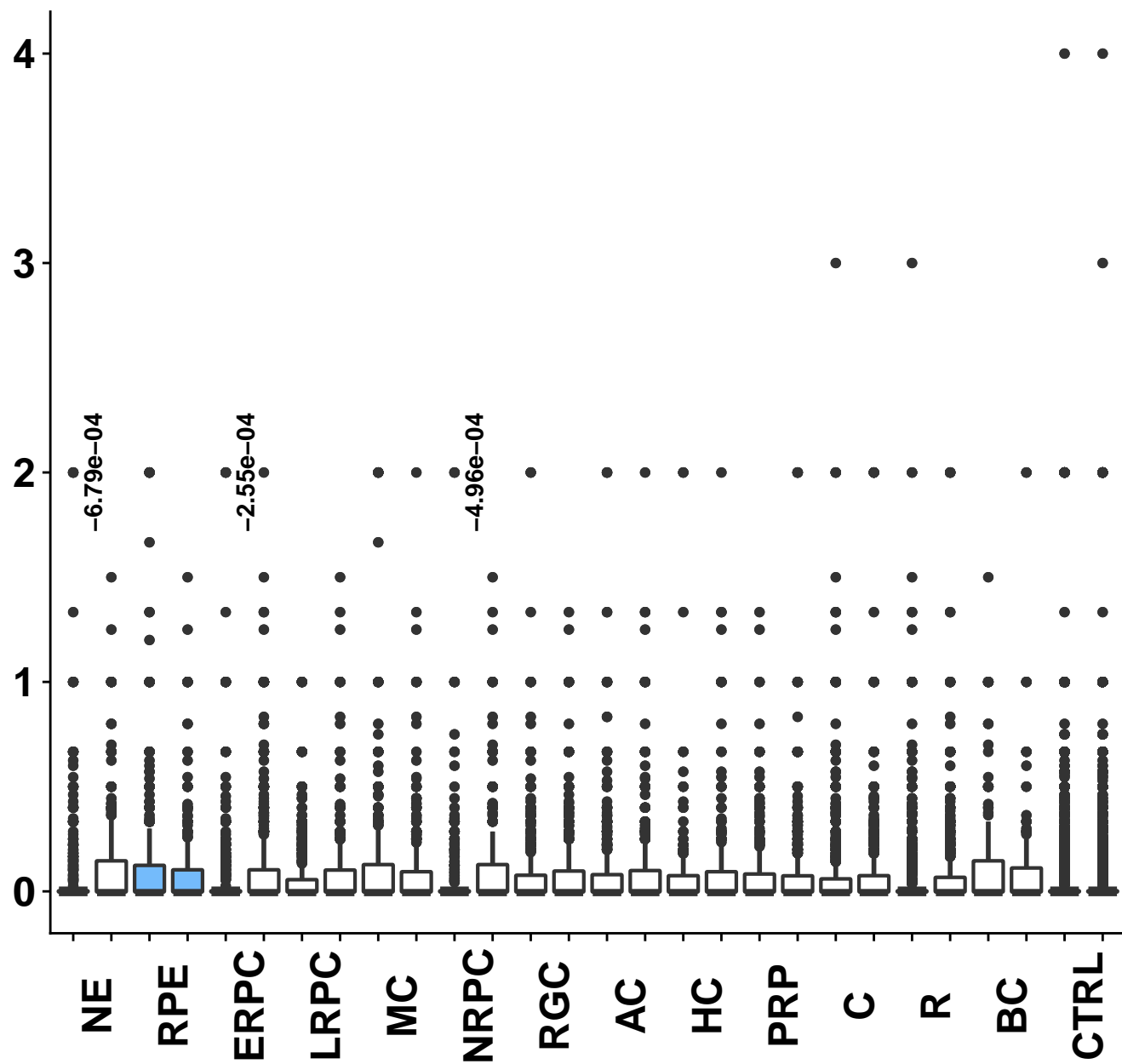
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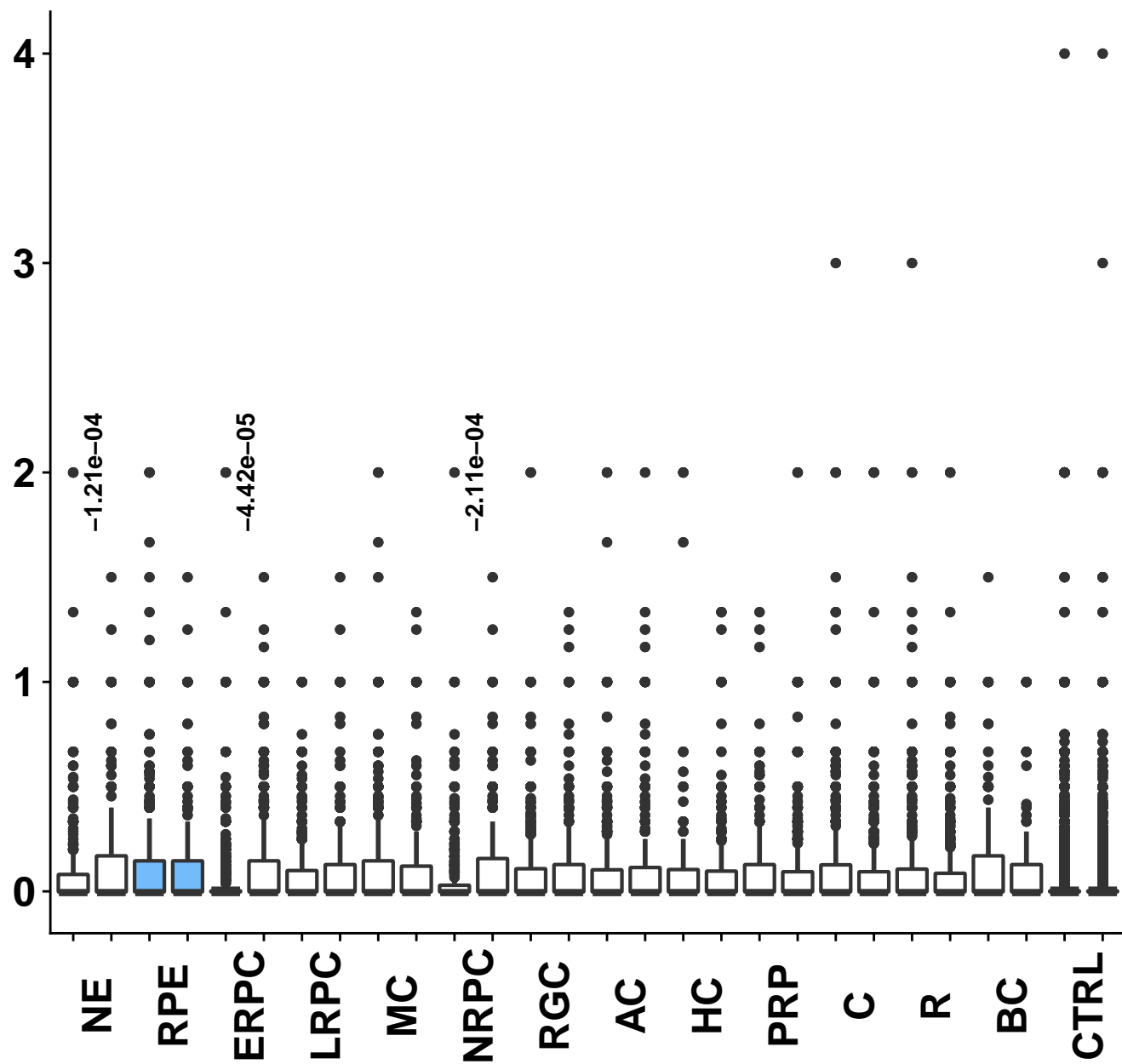
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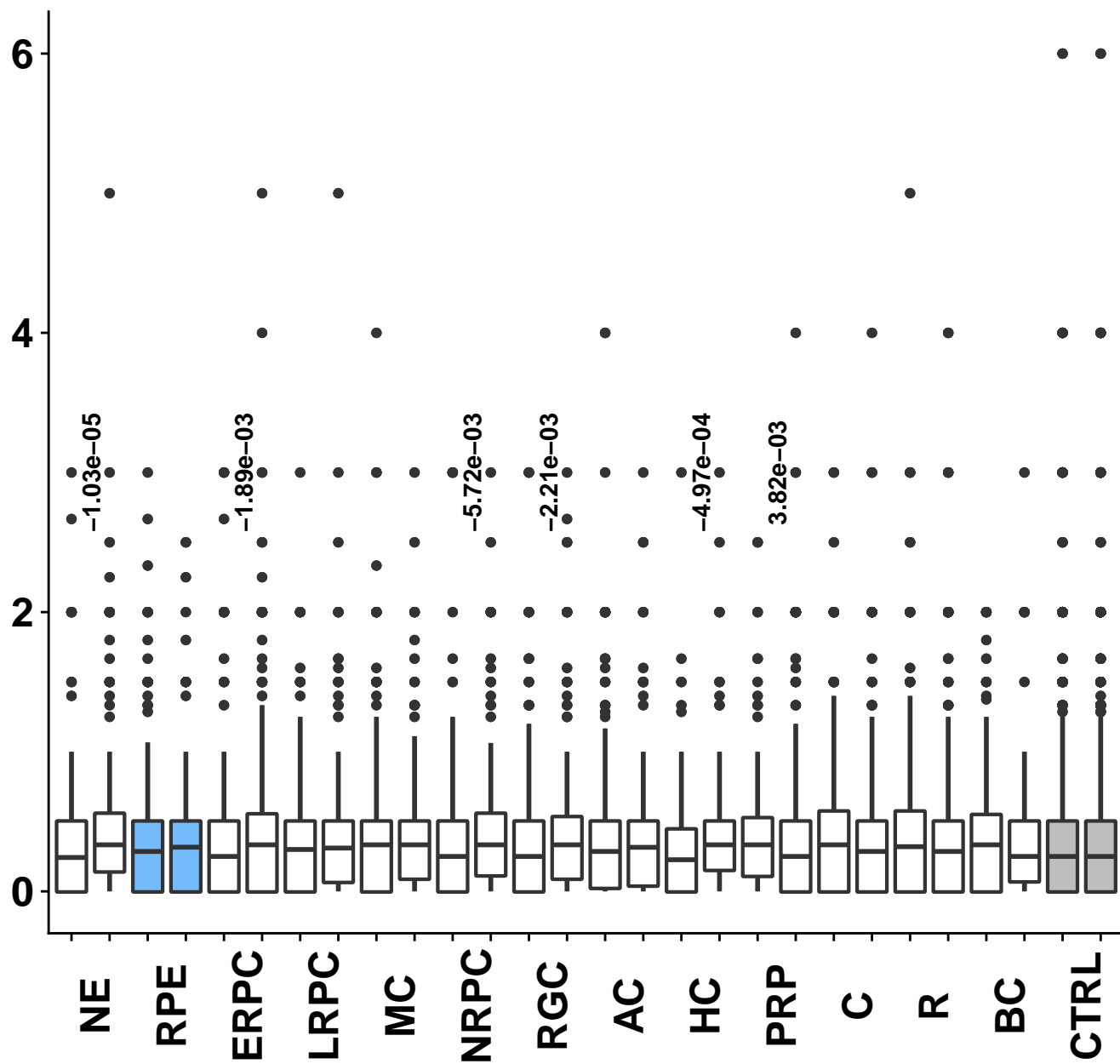
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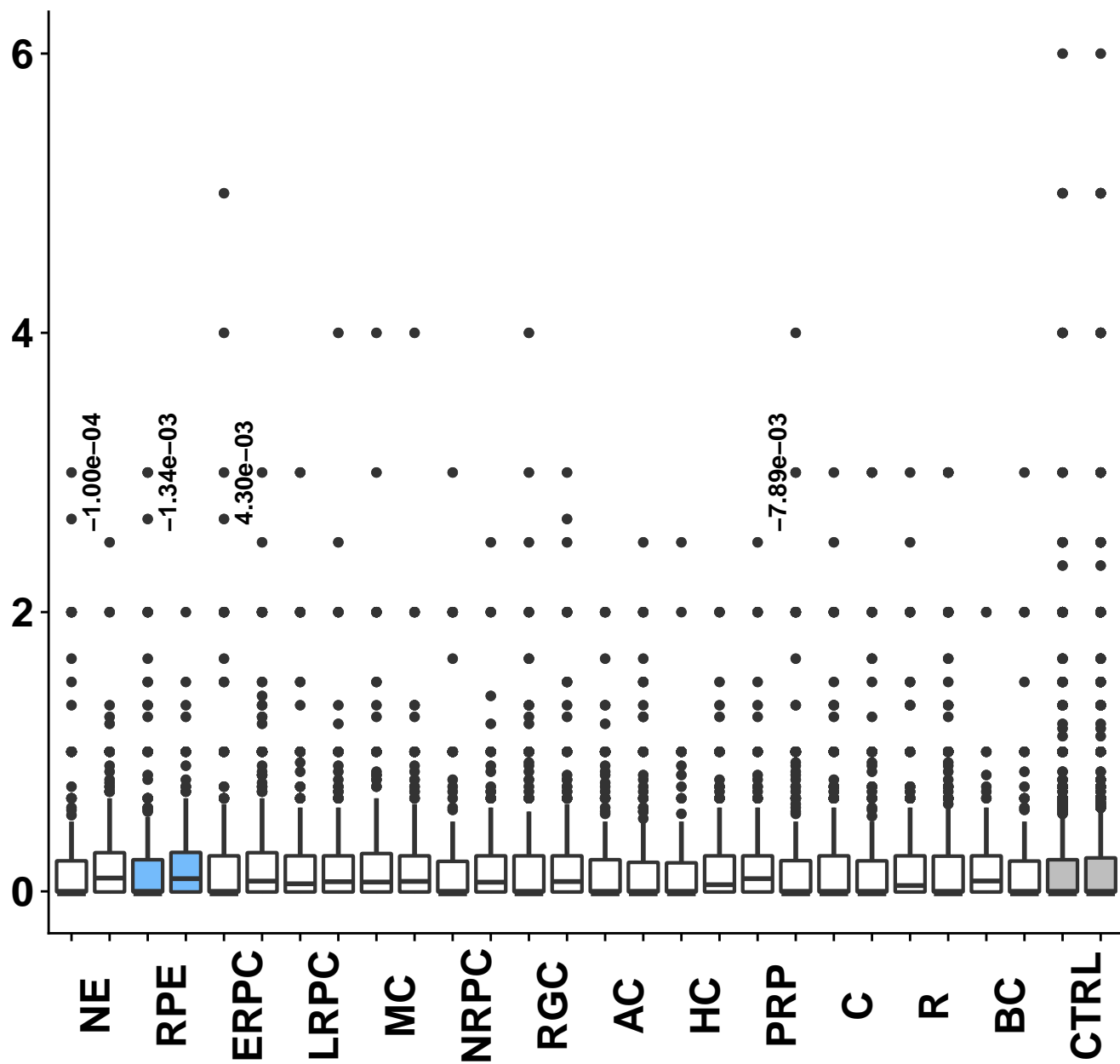
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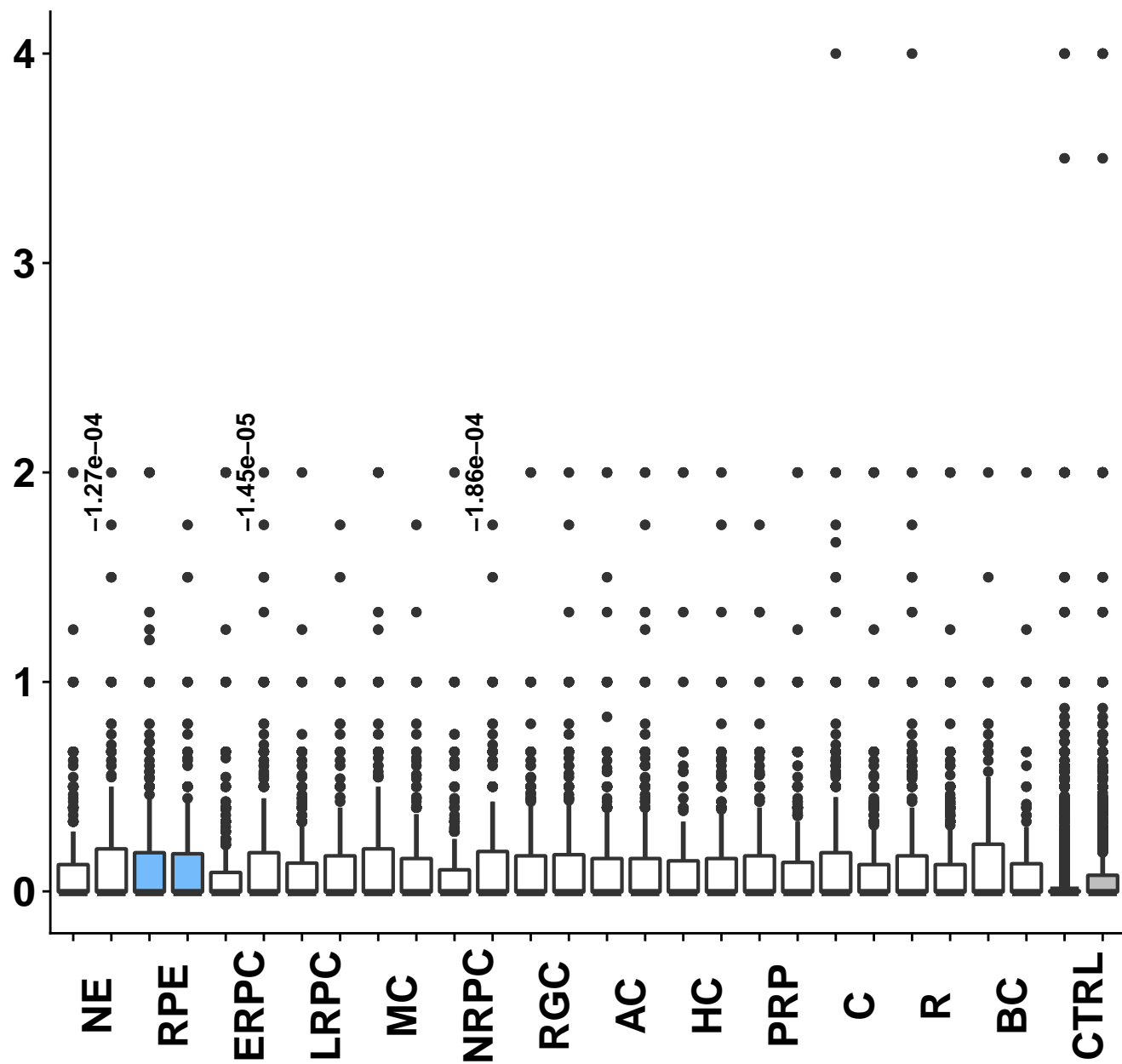
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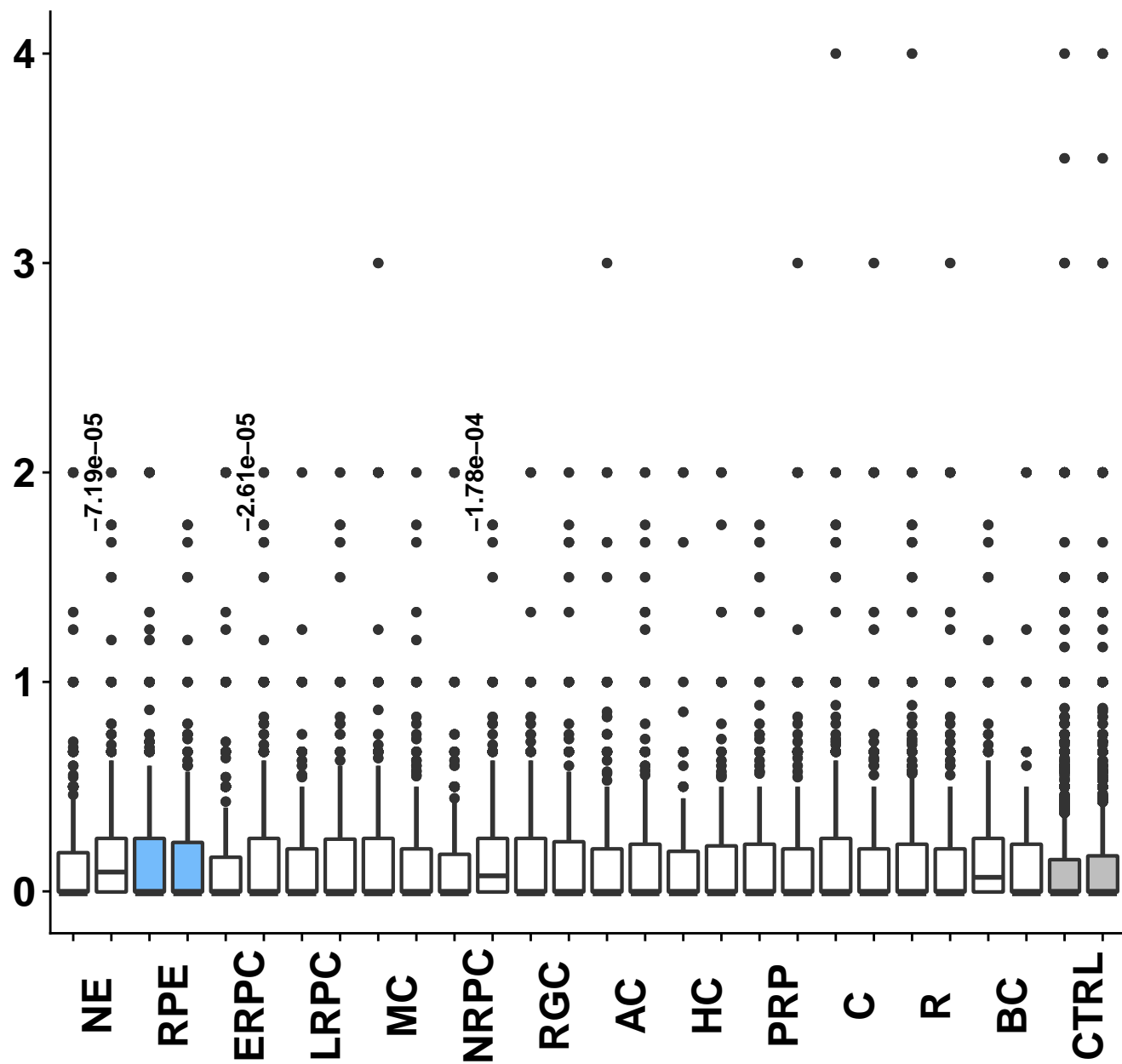
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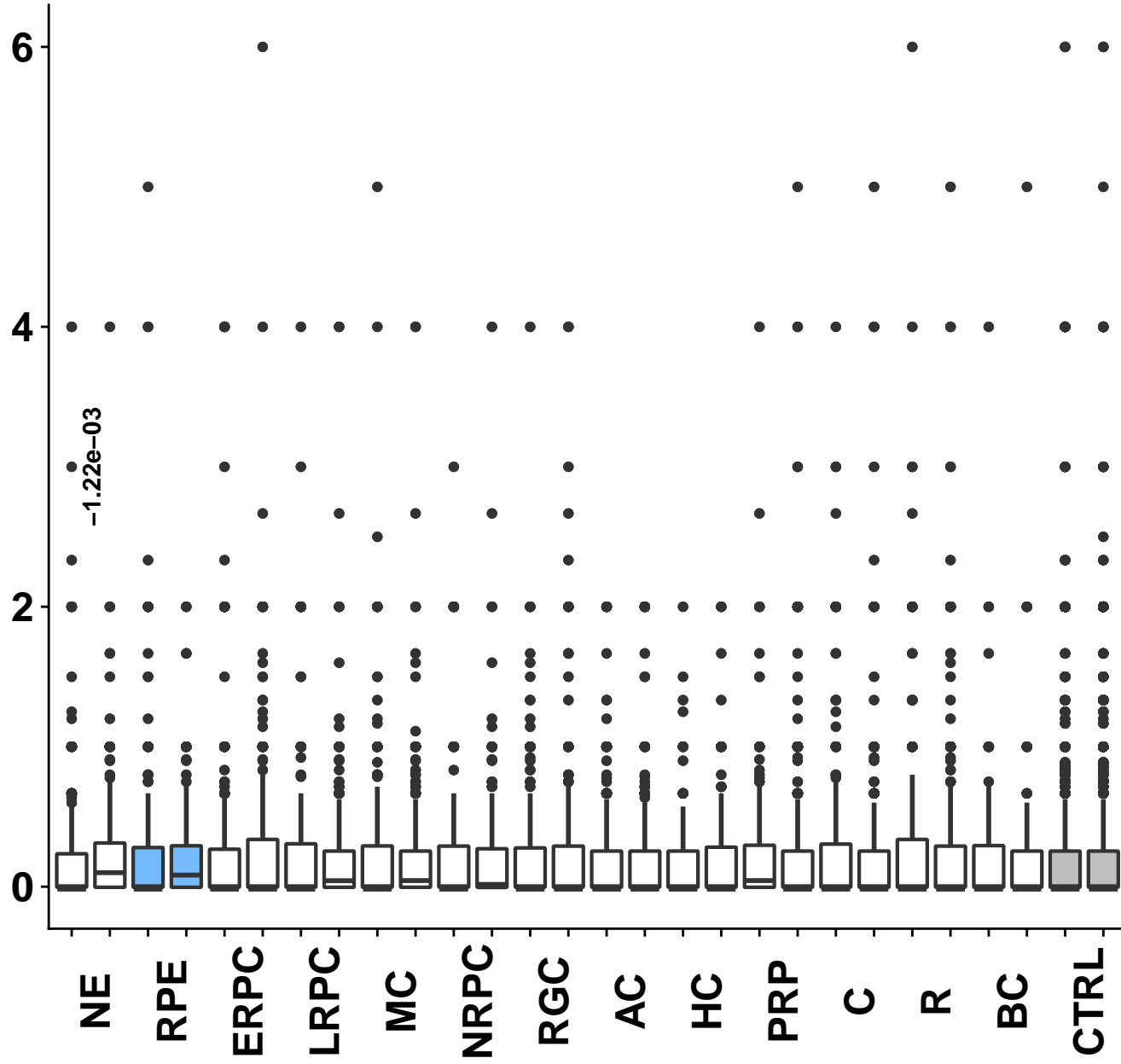
Junb_5_mean



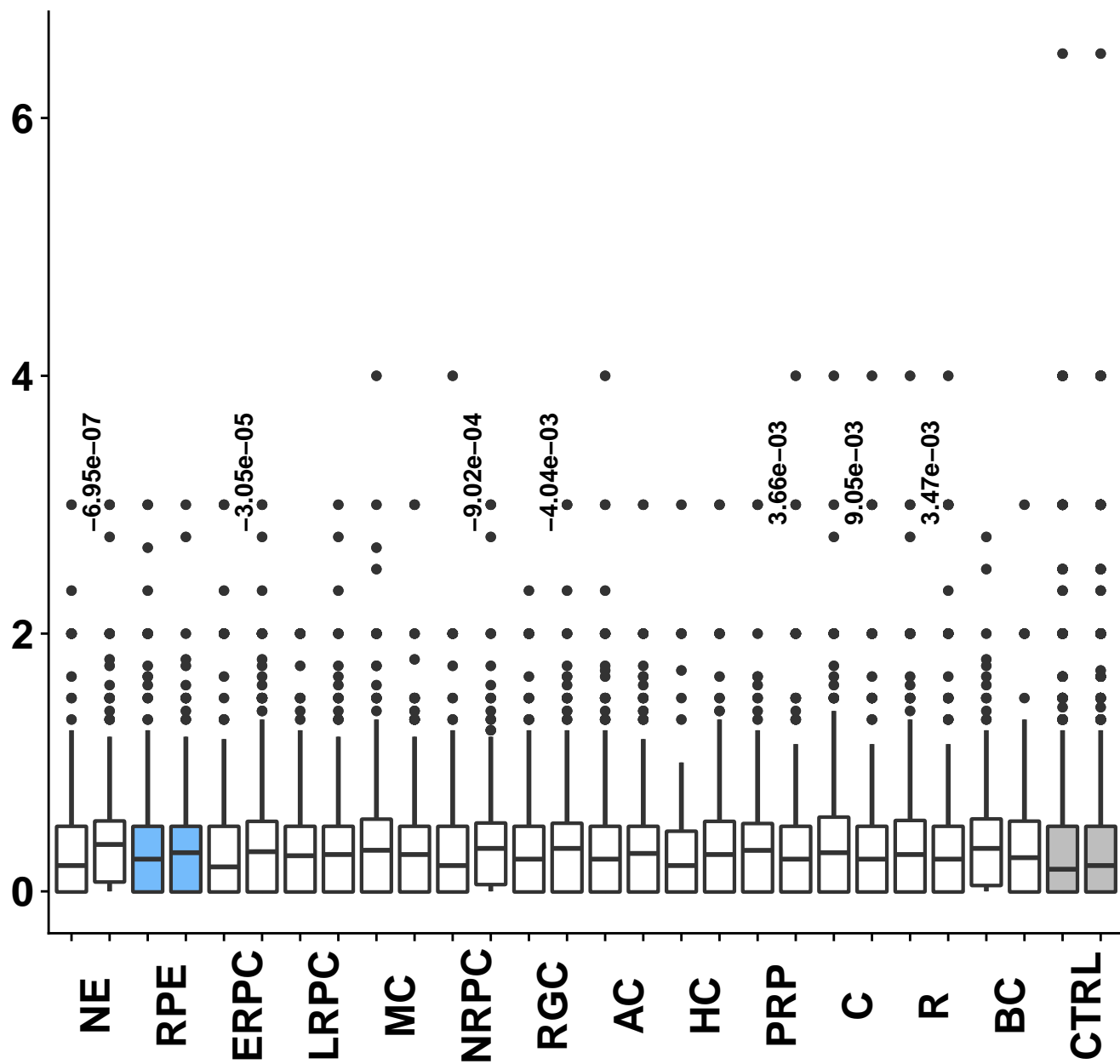
Junb_6_mean



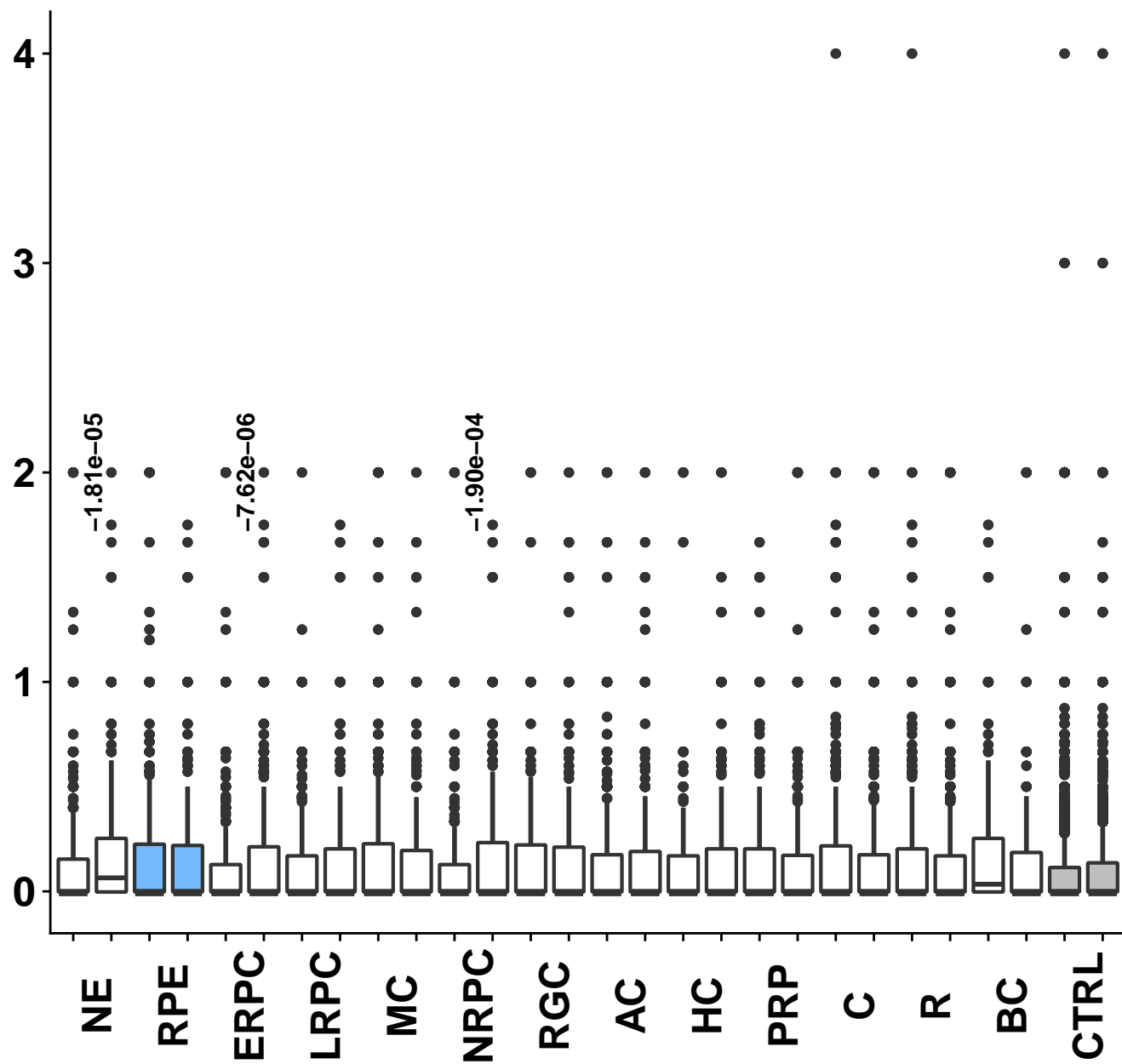
Junb_7_mean



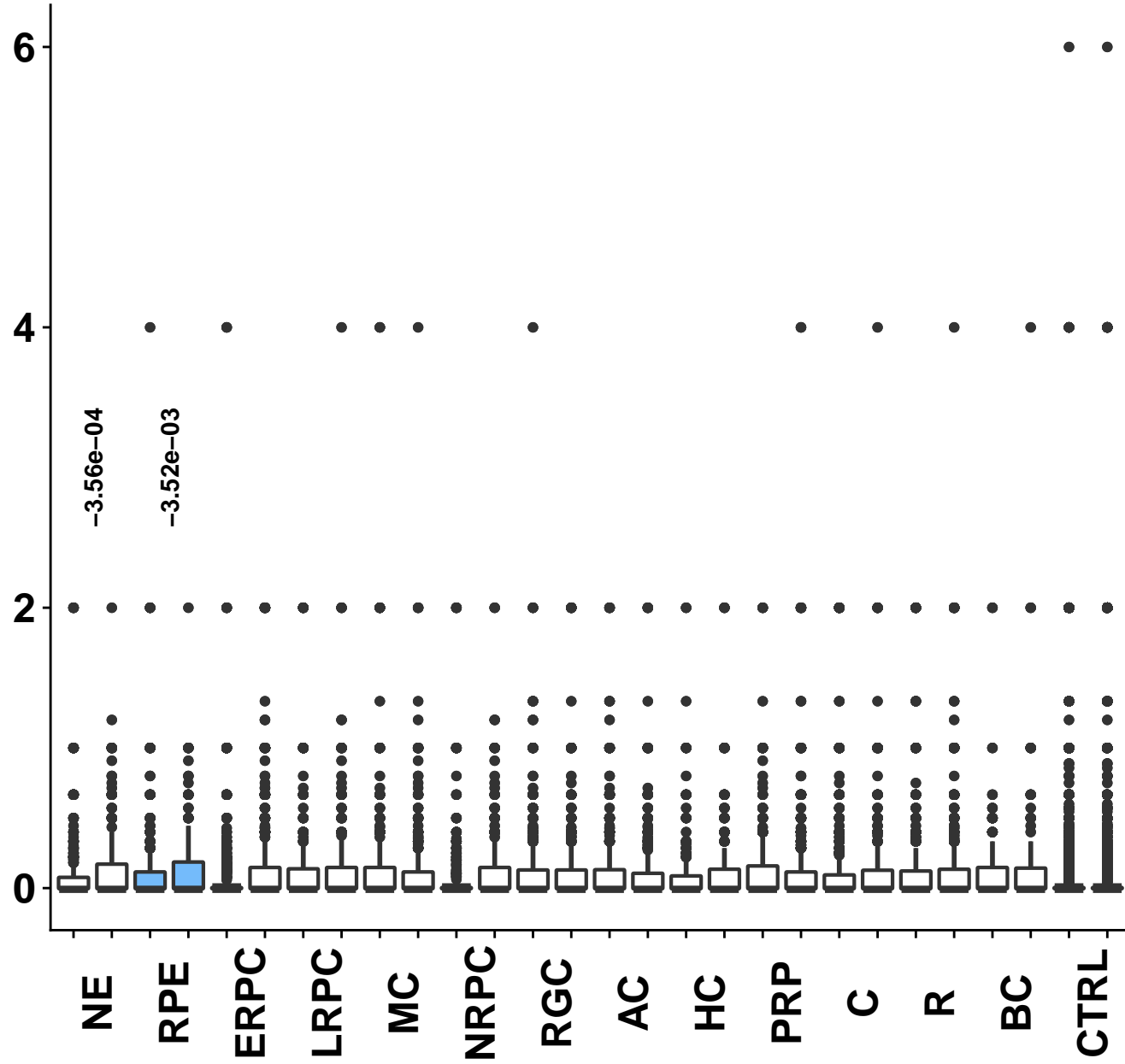
Junb_8_mean



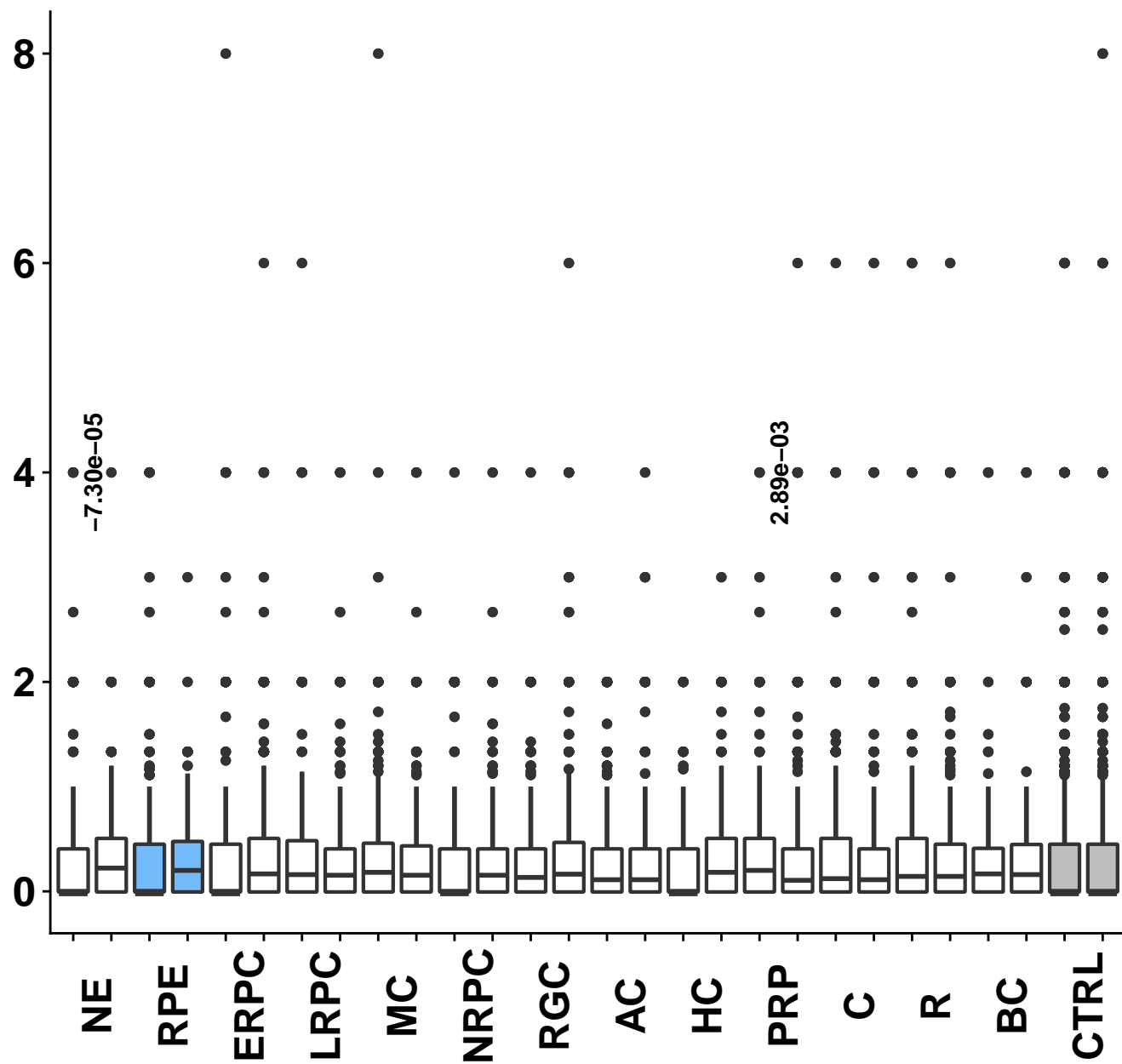
Junb_9_mean



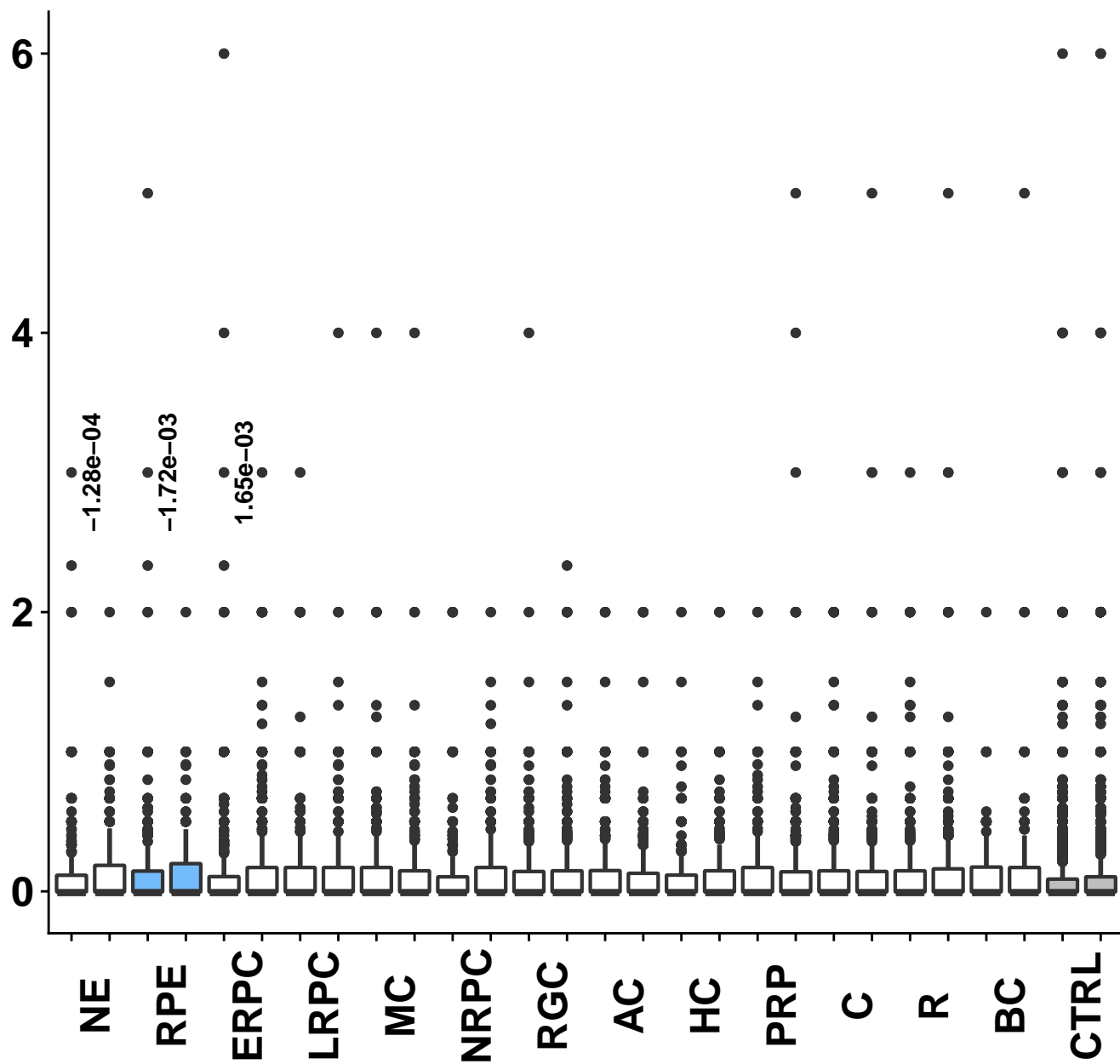
Junb_10_mean



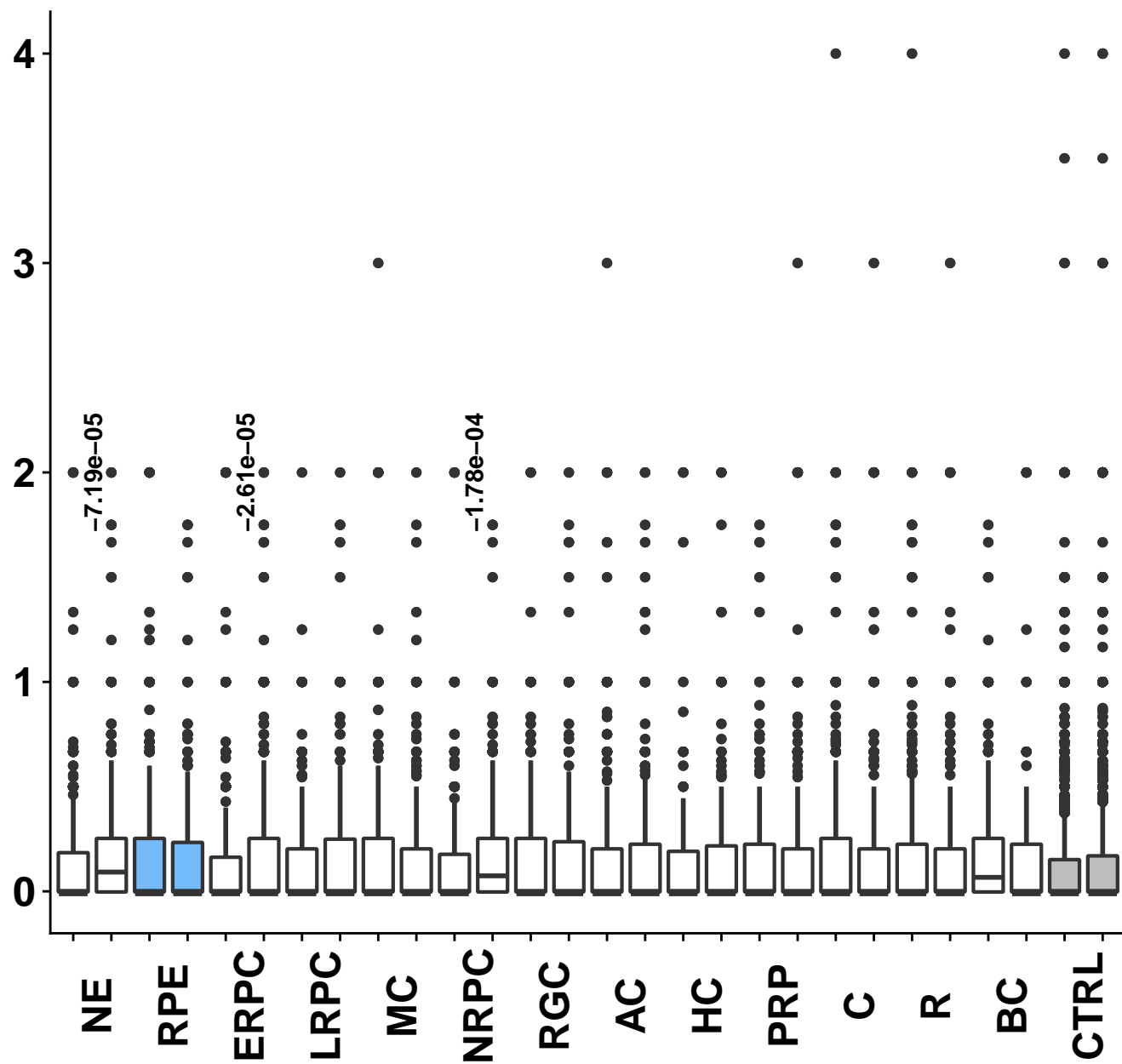
Junb_11_mean



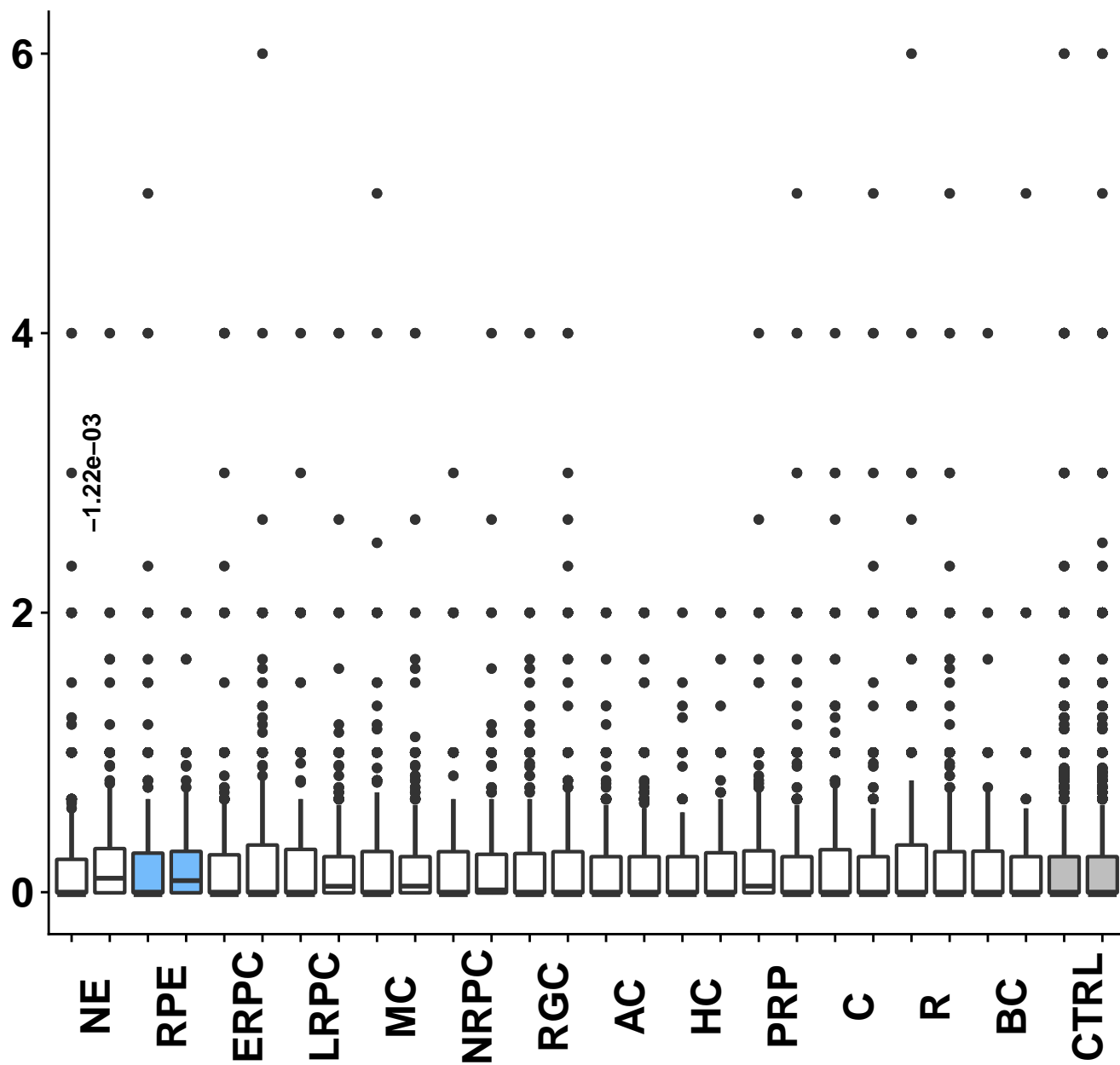
Fosb_1_mean



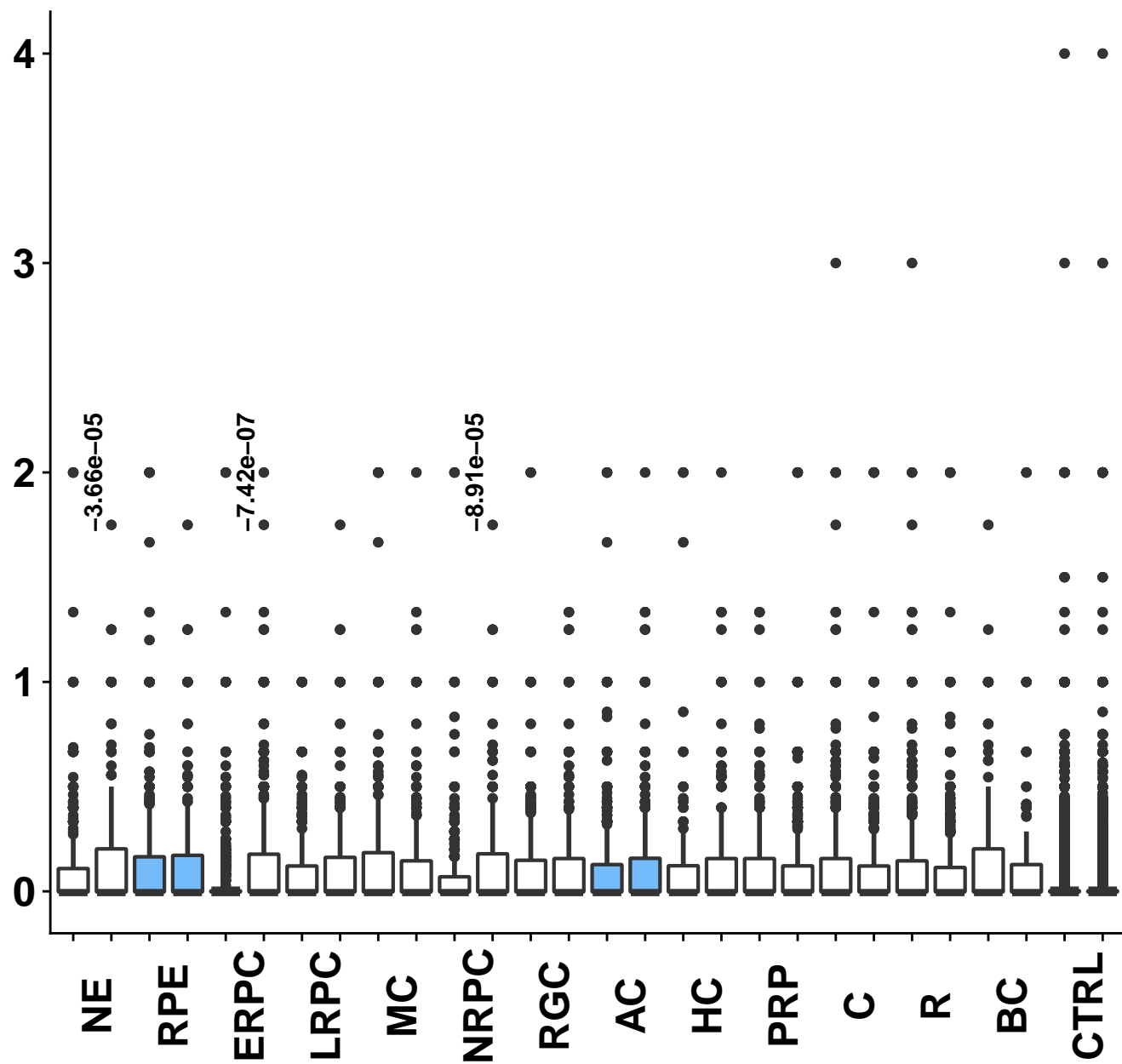
Fosb_2_mean



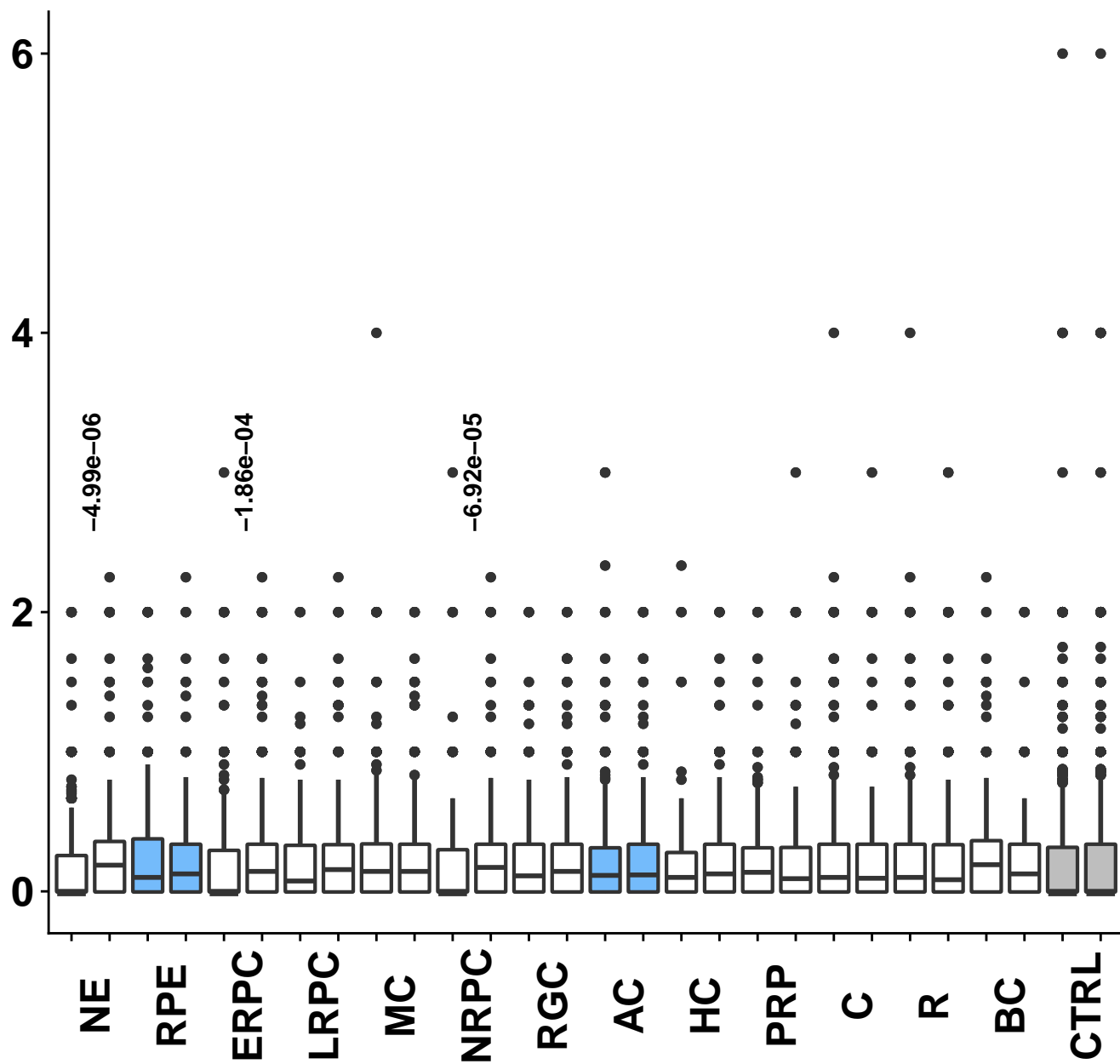
Fosb_3_mean



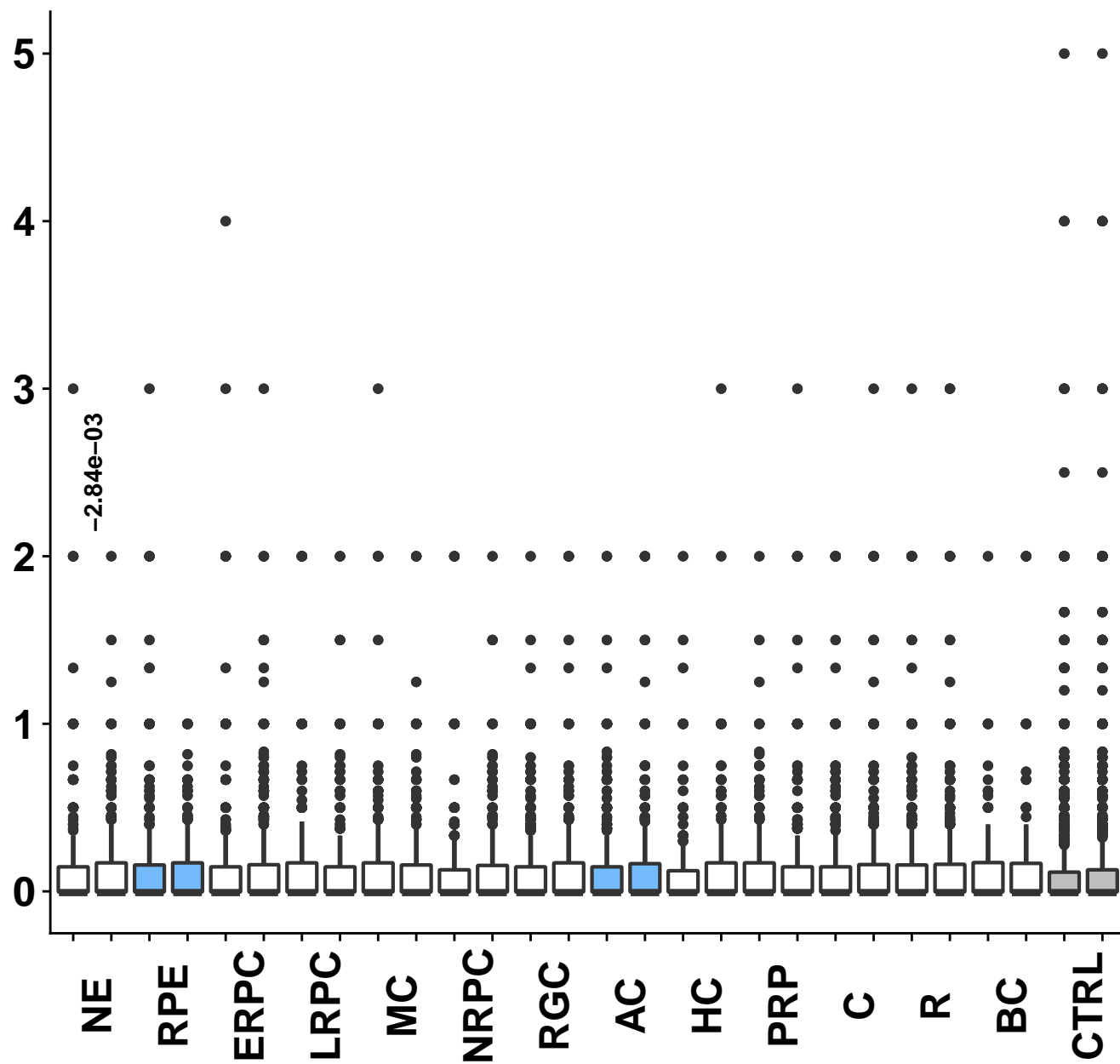
Fos_4_mean



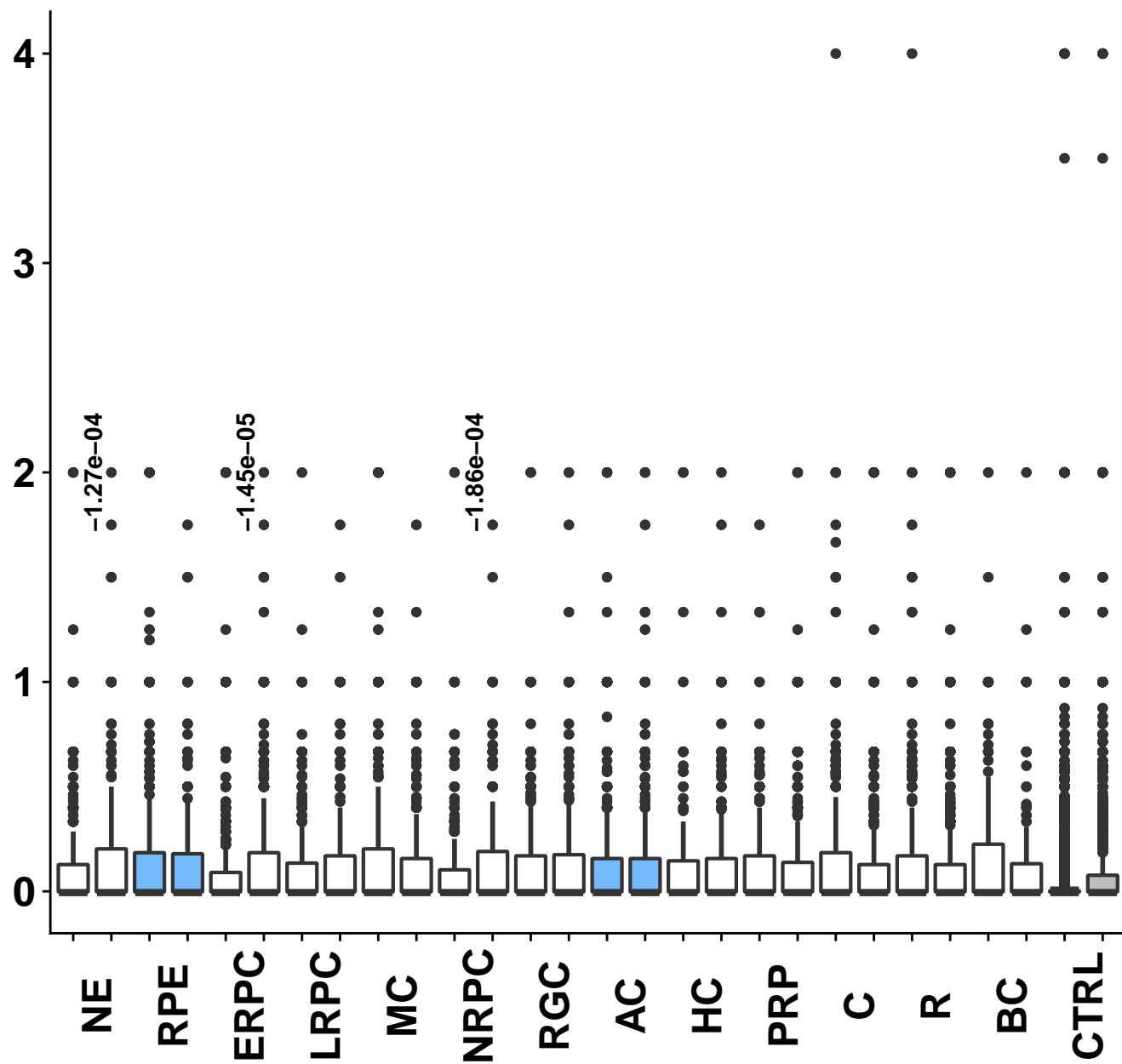
Fos_5_mean



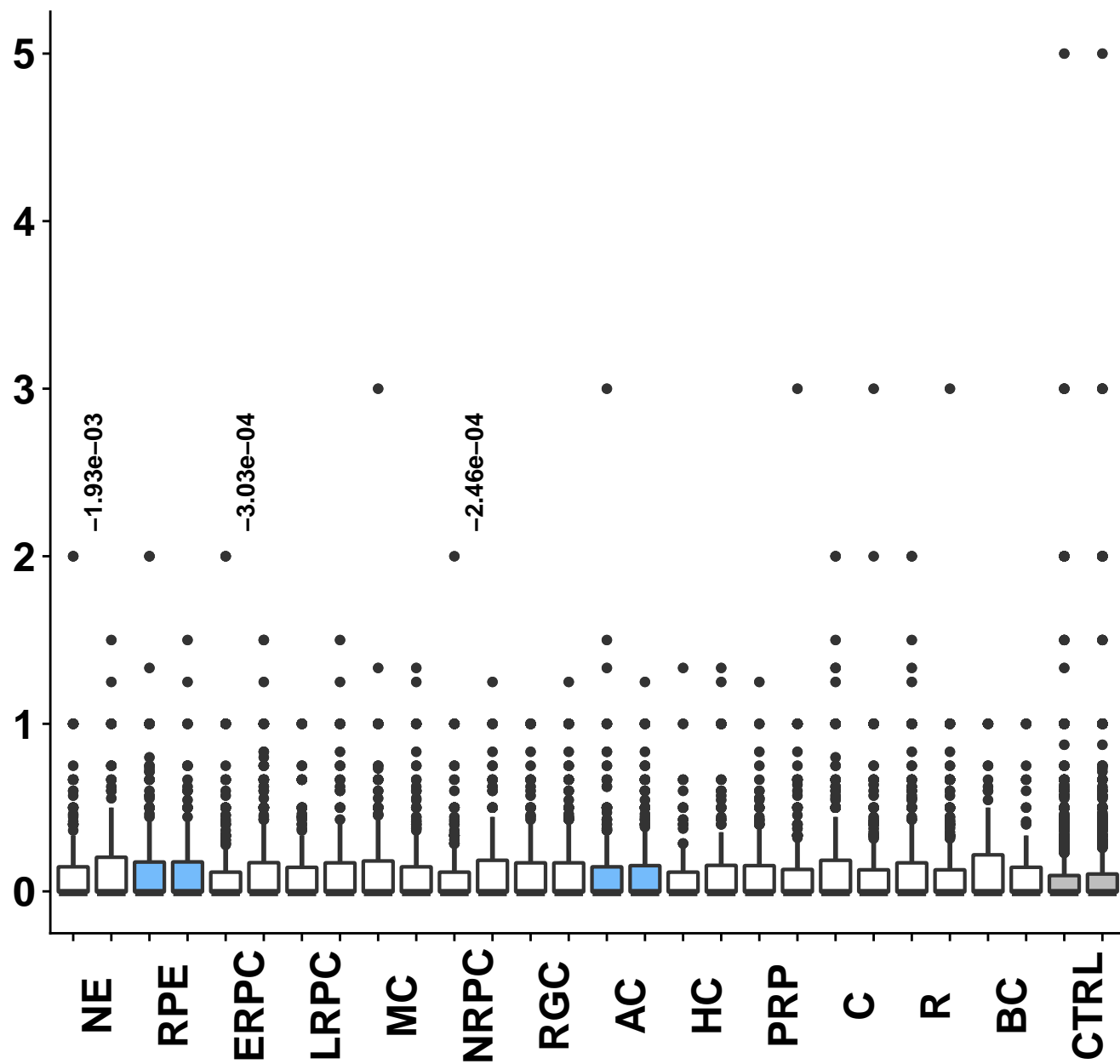
Fos_6_mean



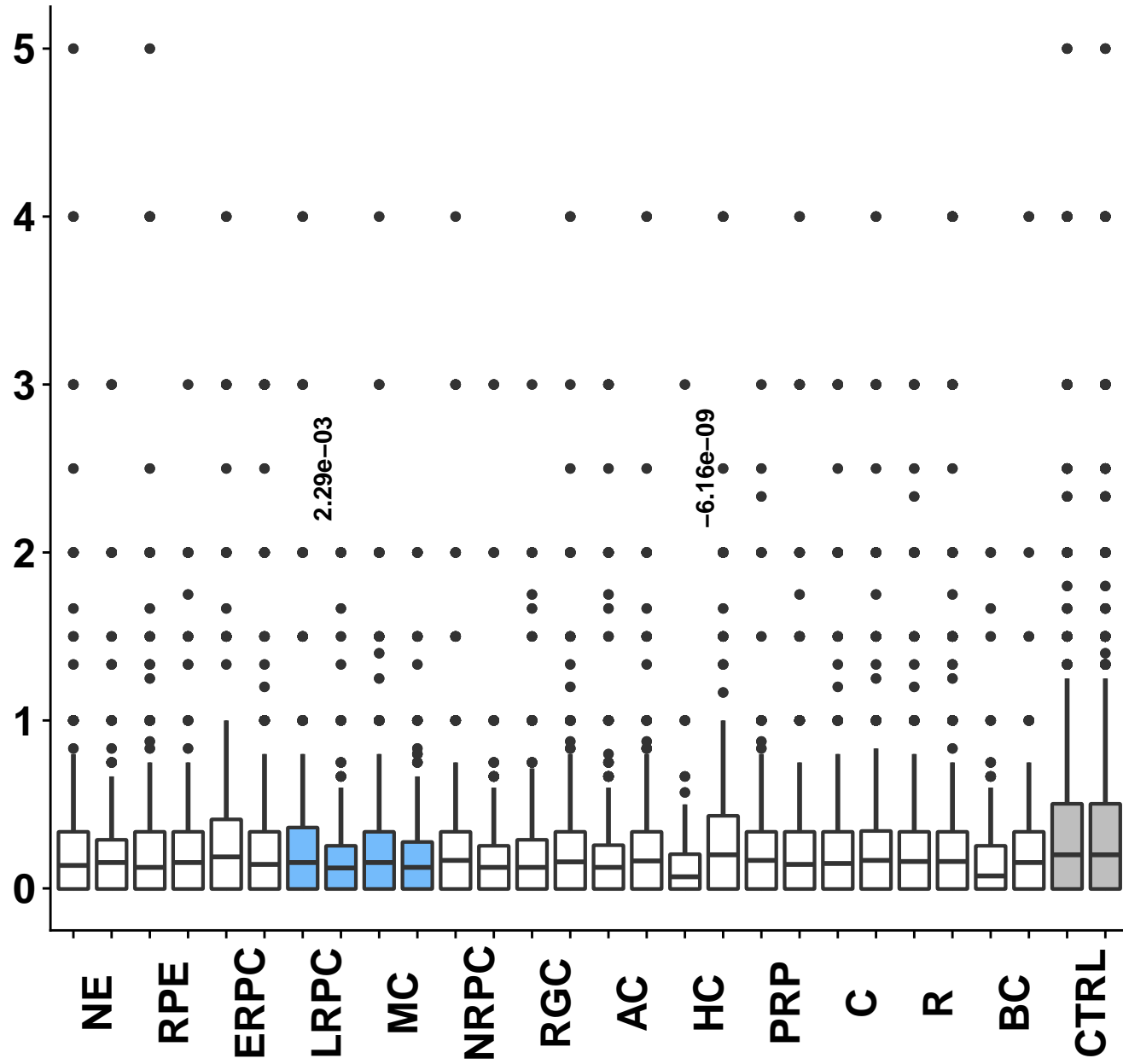
Fos_12_mean



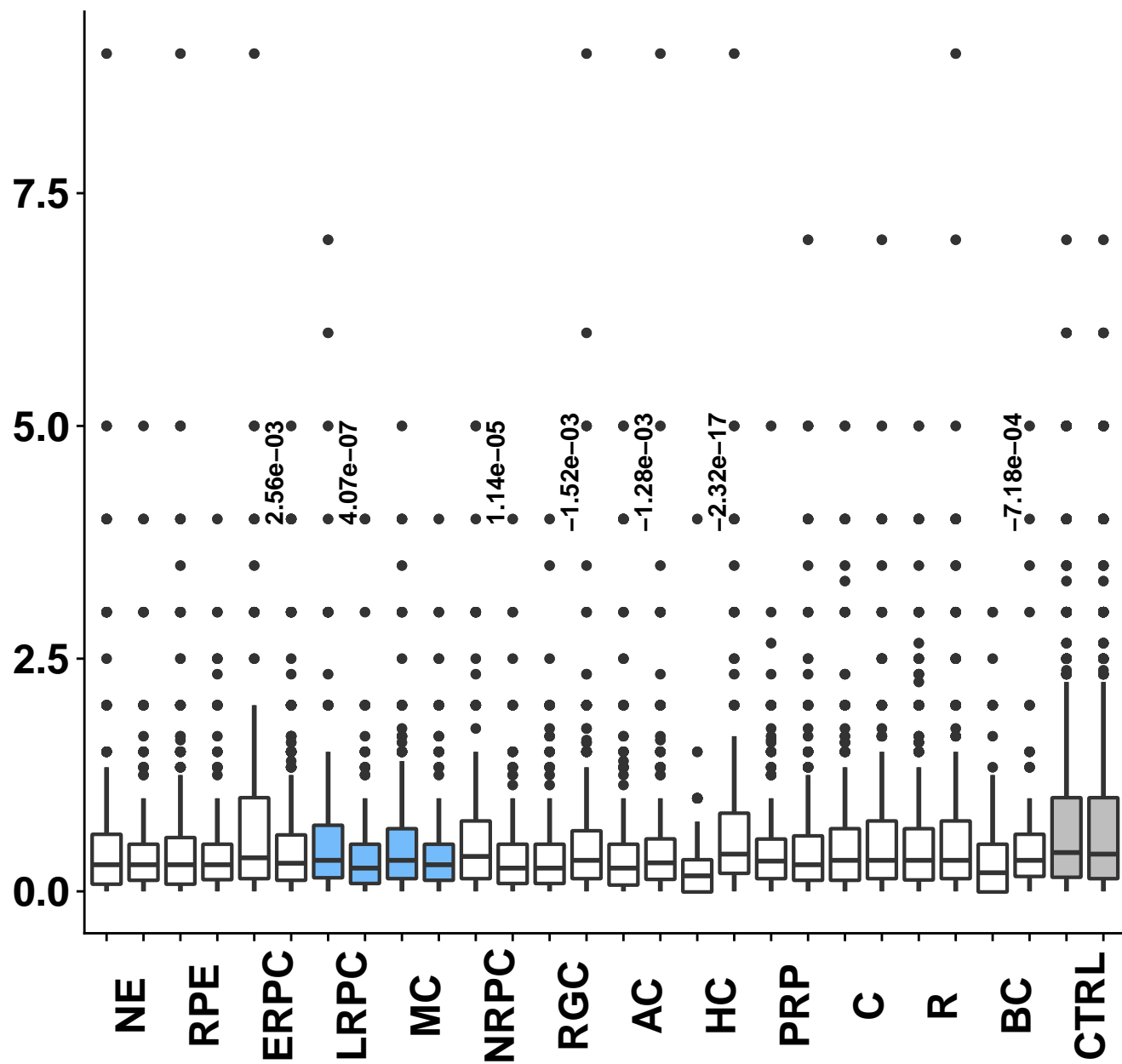
Fos_18_mean



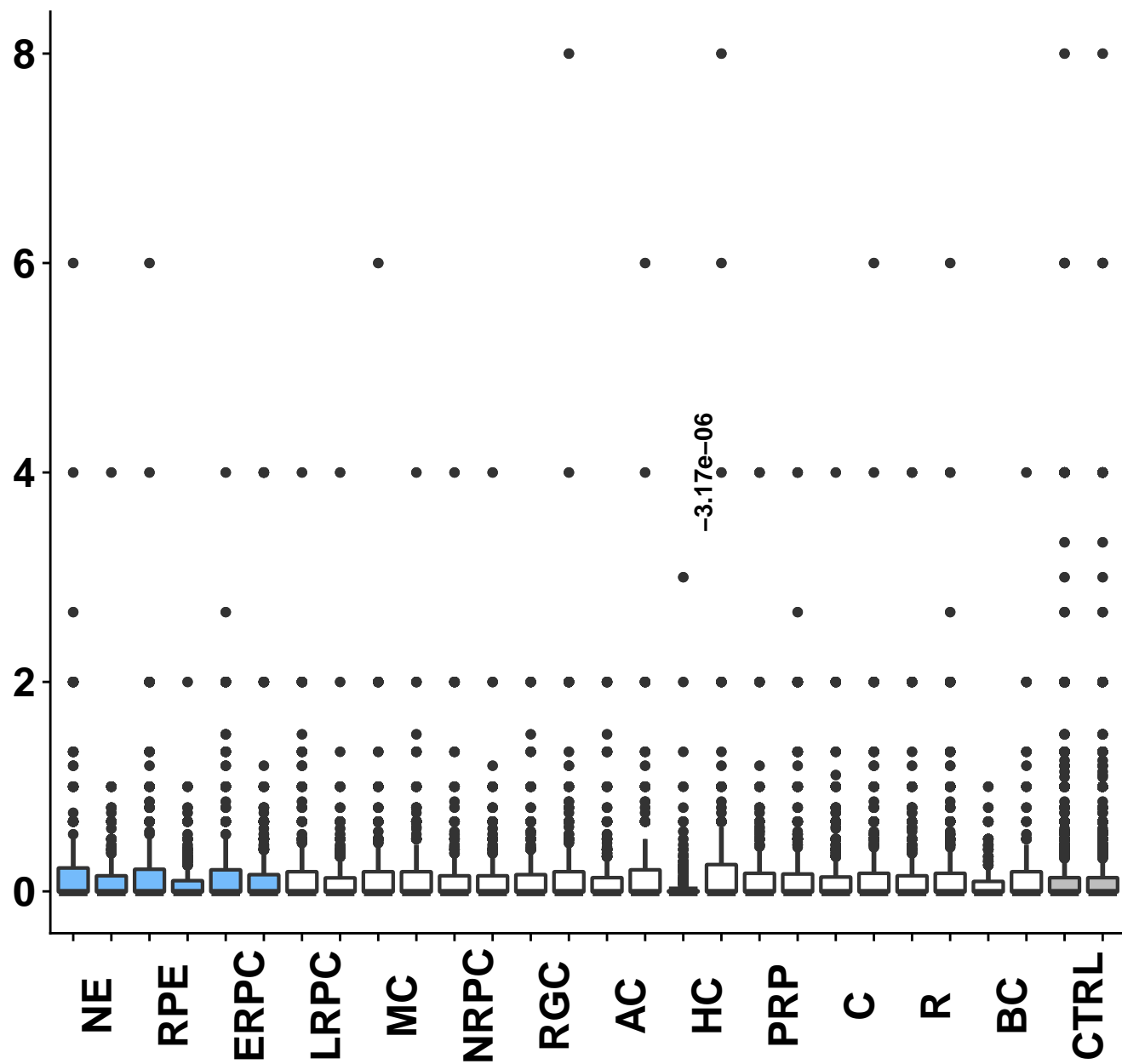
Etv1_1_mean



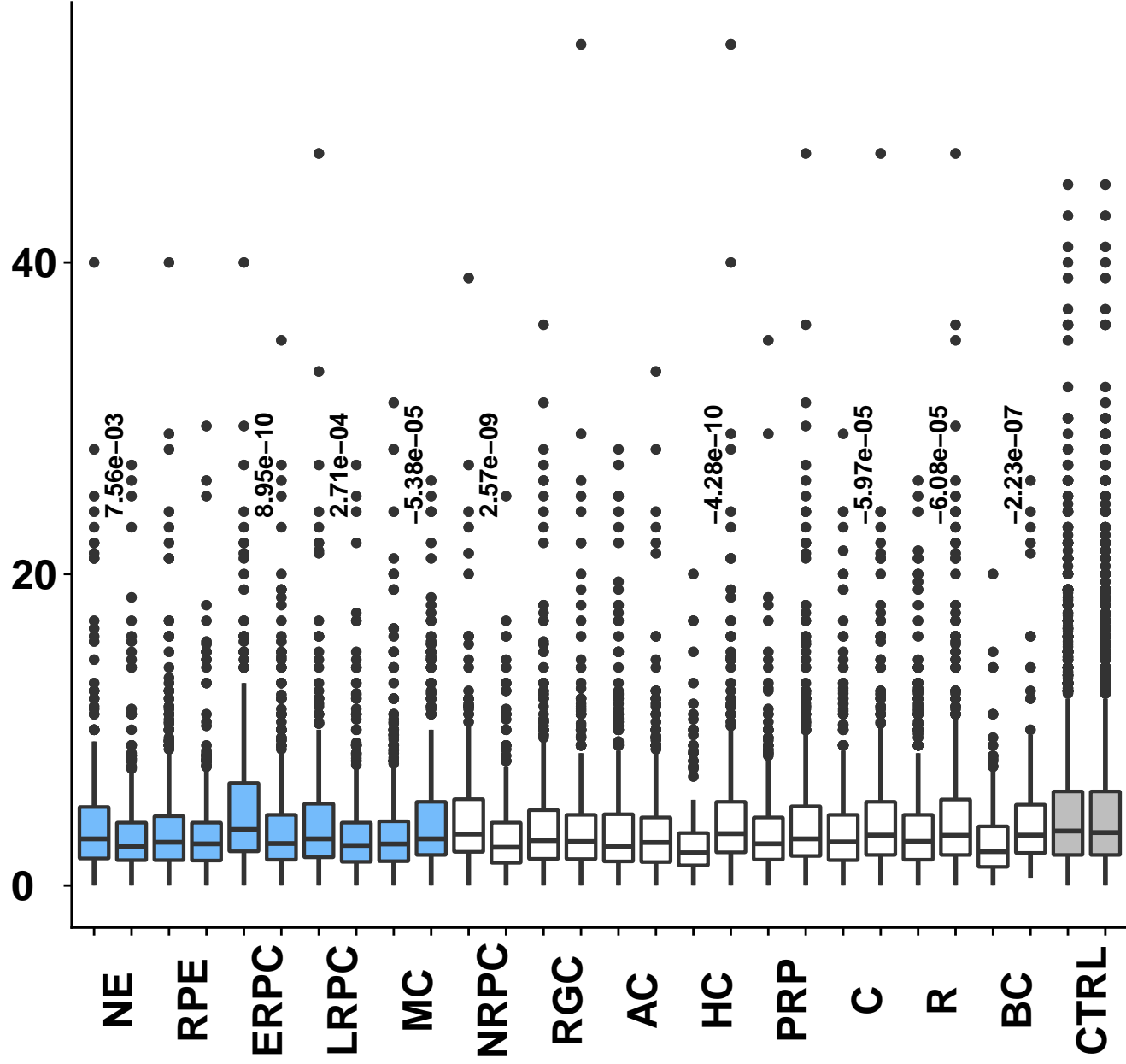
Etv1_2_mean



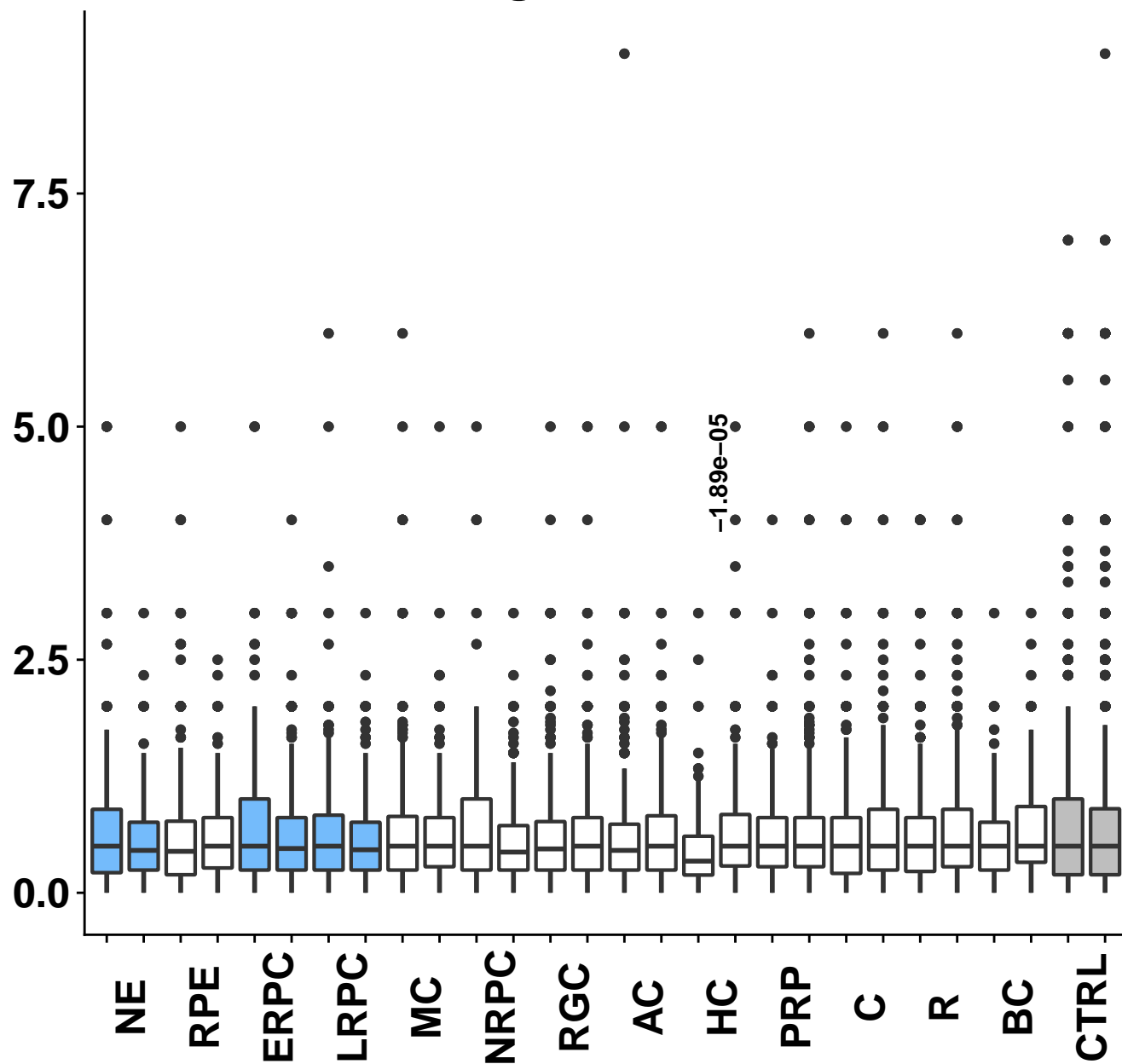
Id2_1_mean



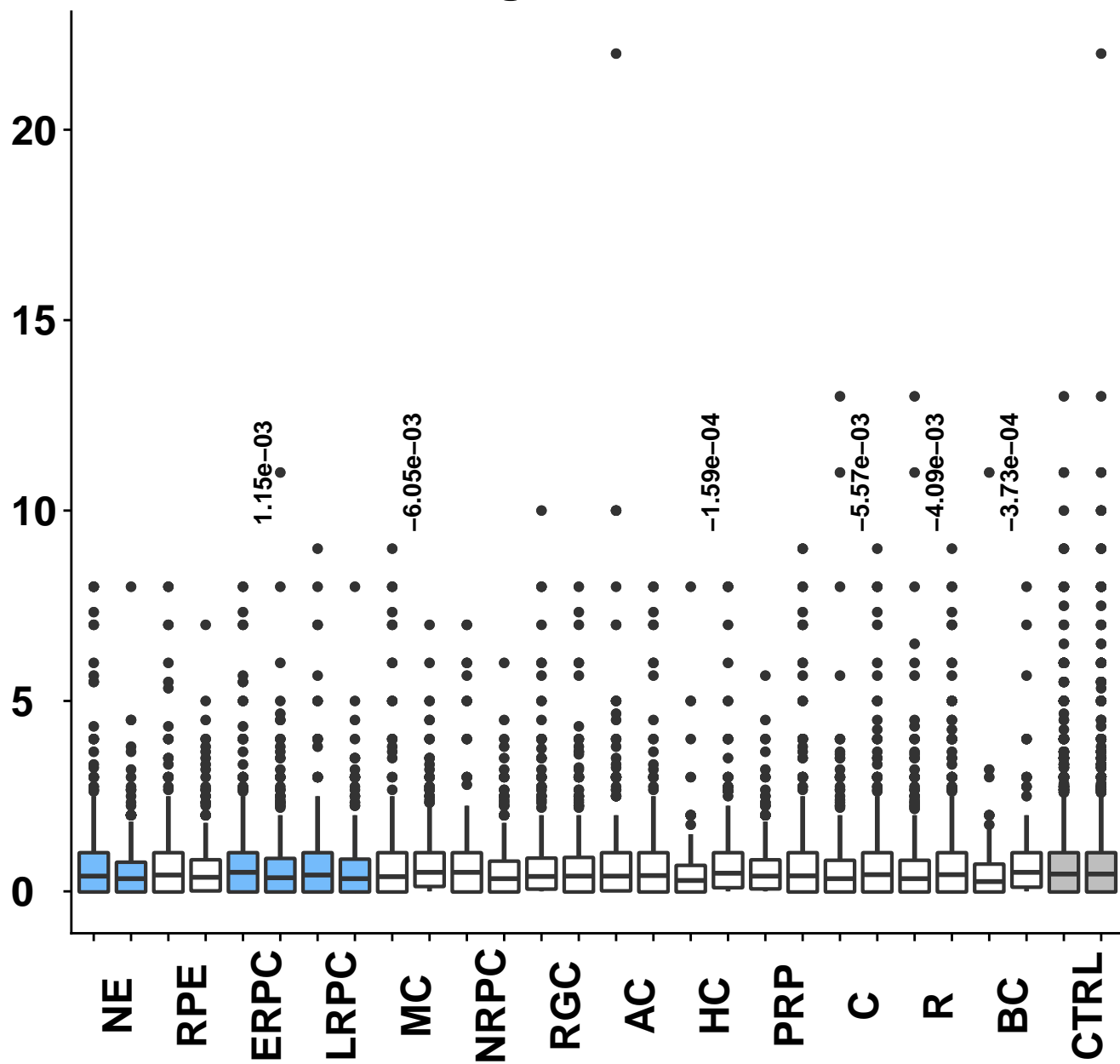
Hes1_1_mean



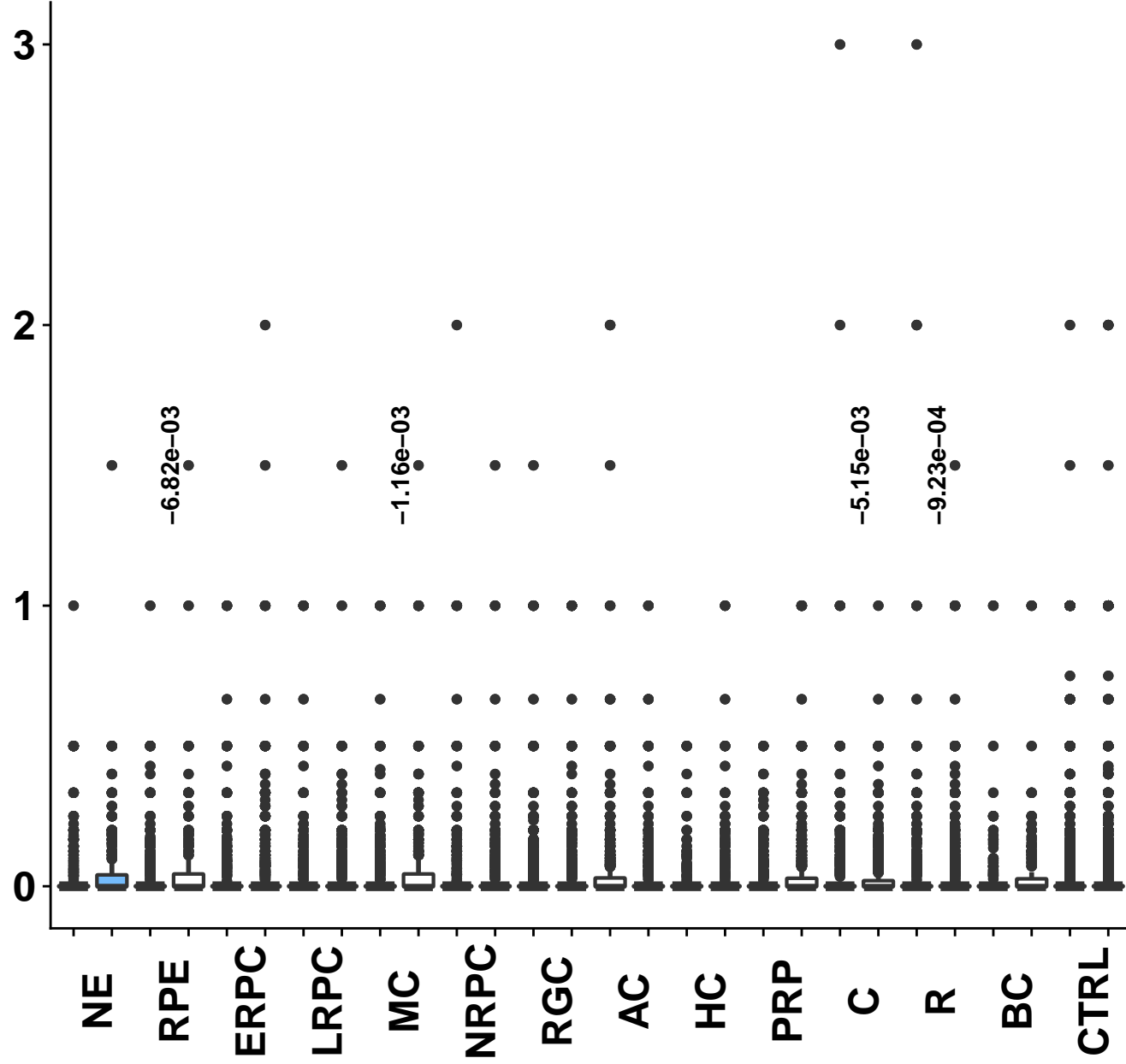
Plagl1_1_mean



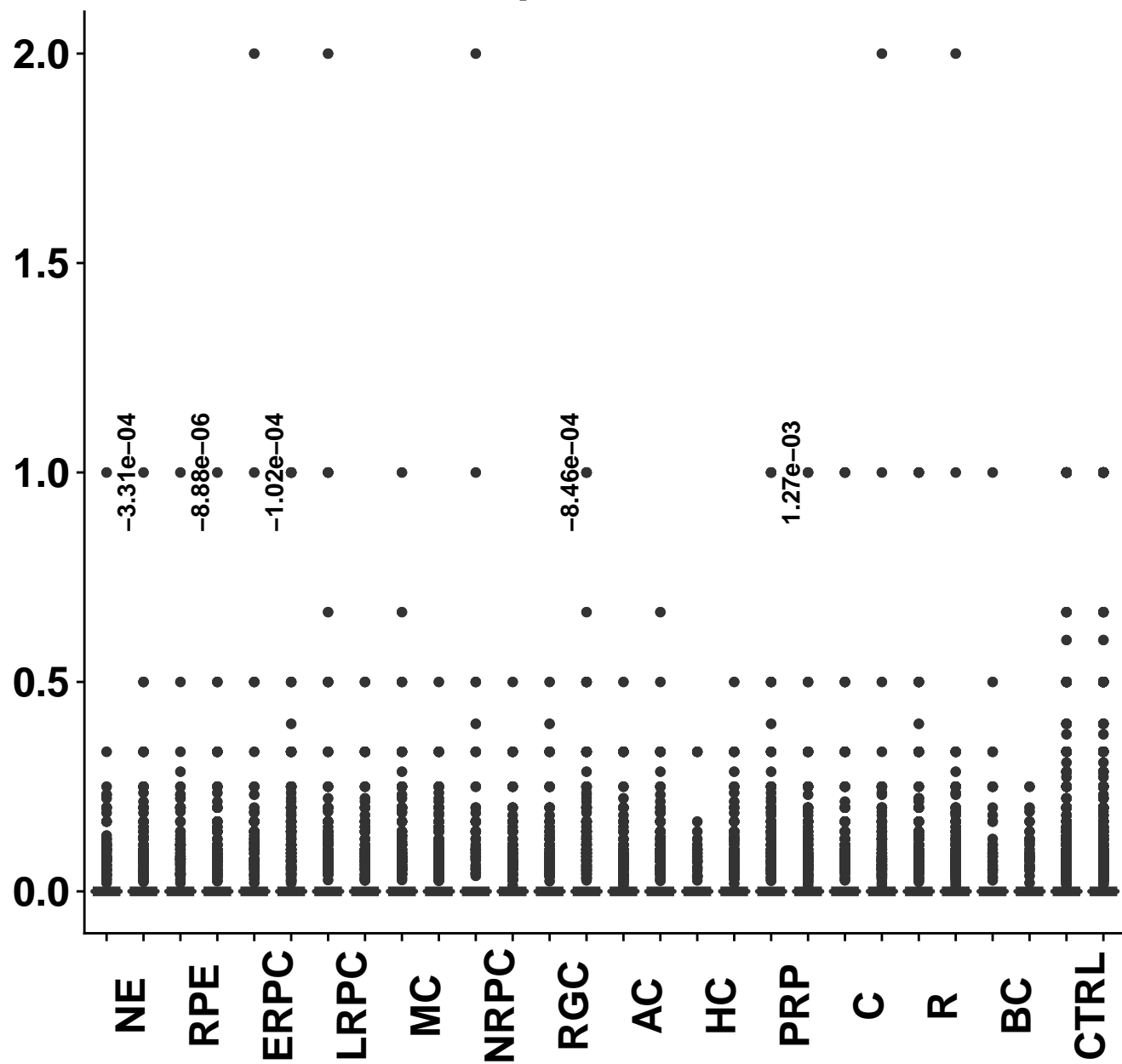
Plagl1_2_mean



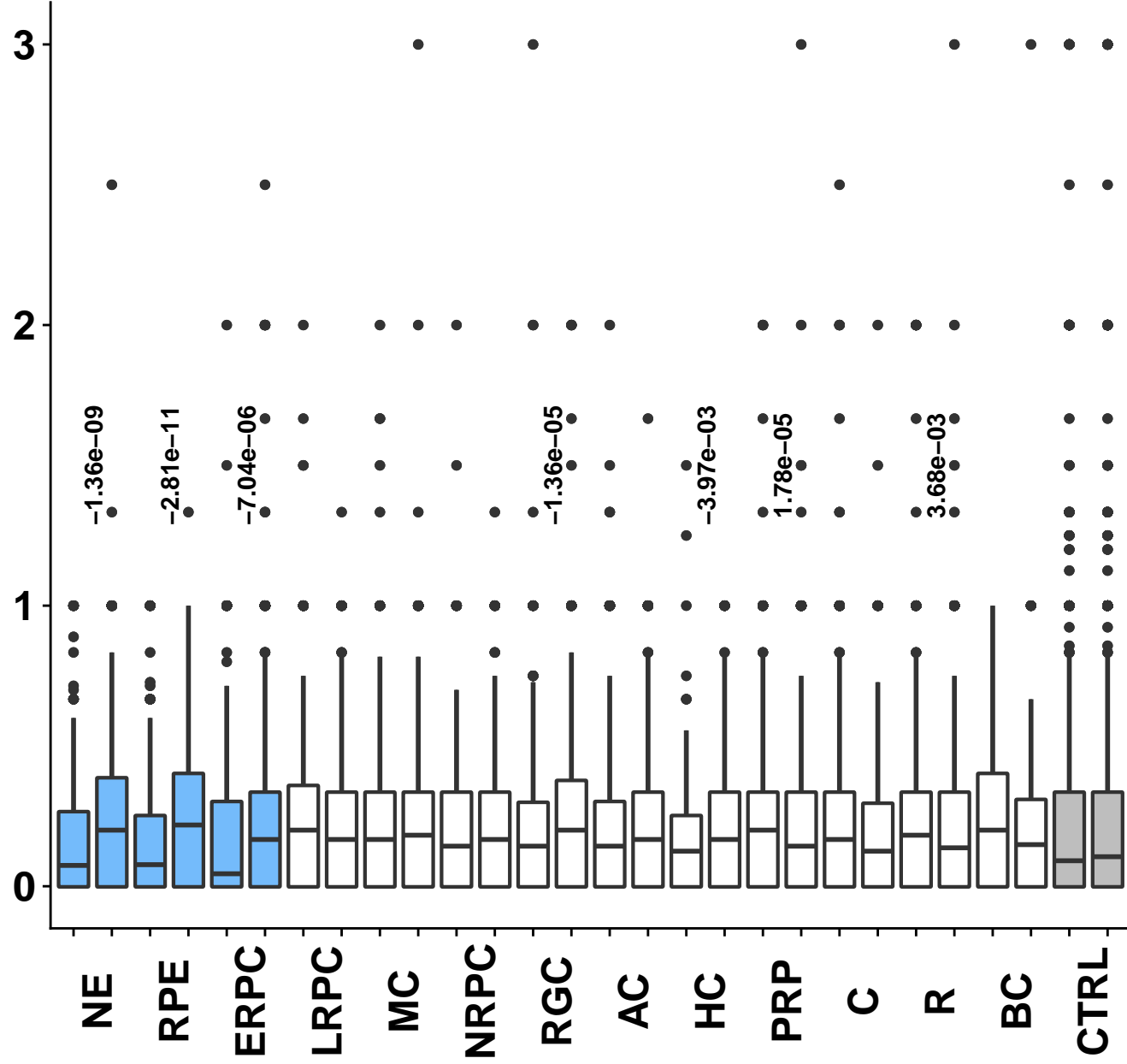
Plagl1_3_mean



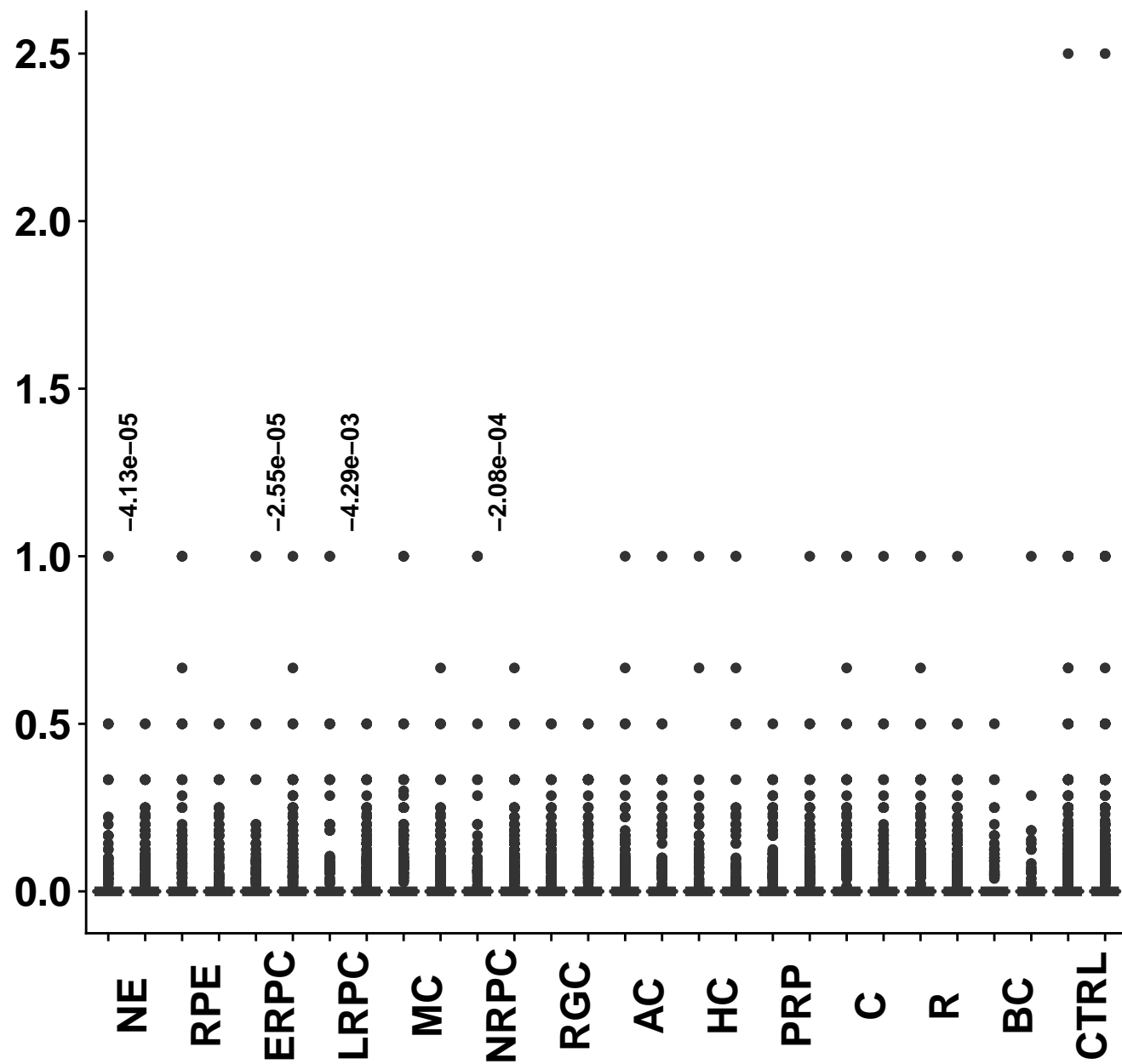
Foxp1_1_mean



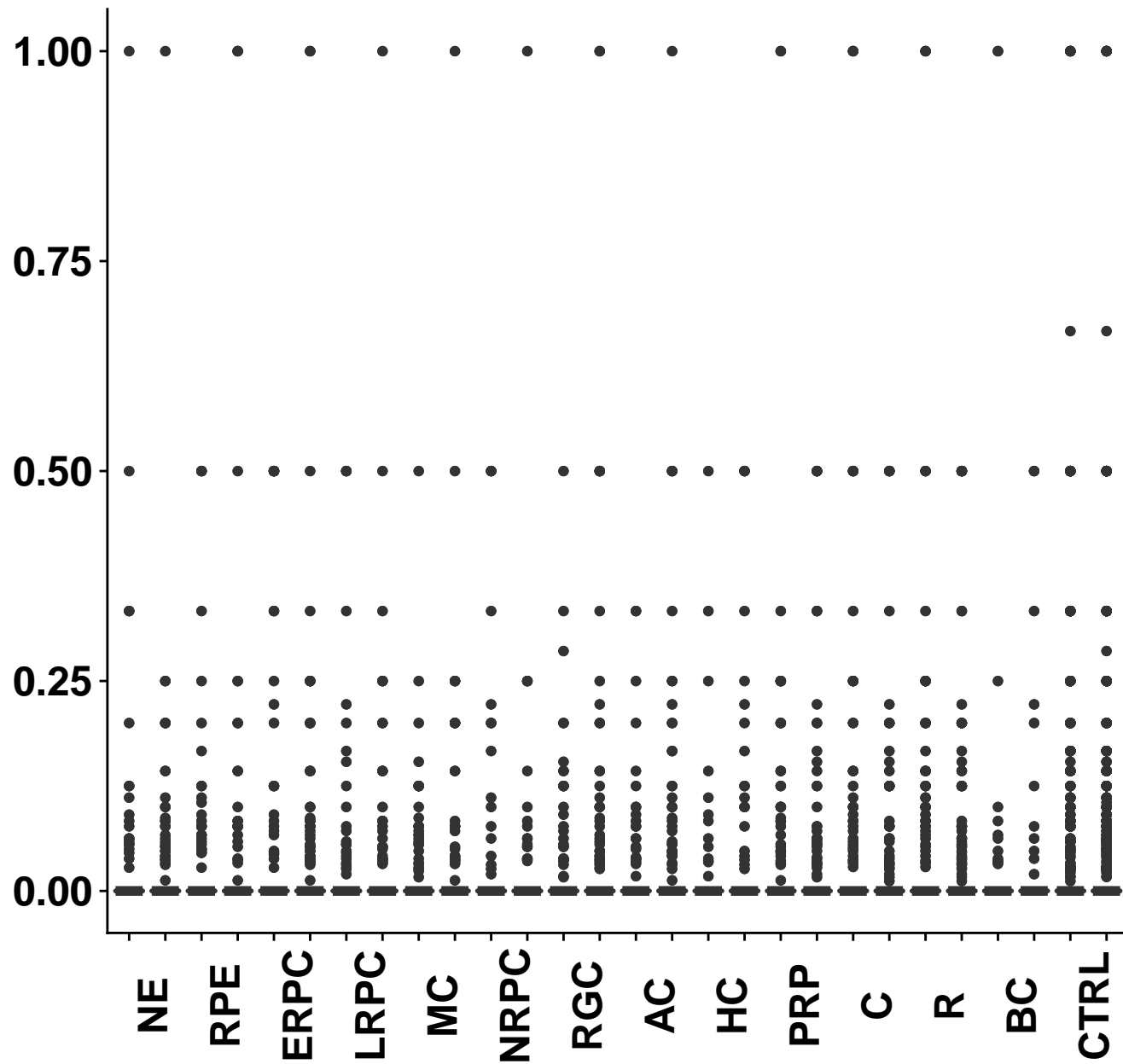
Foxp1_2_mean



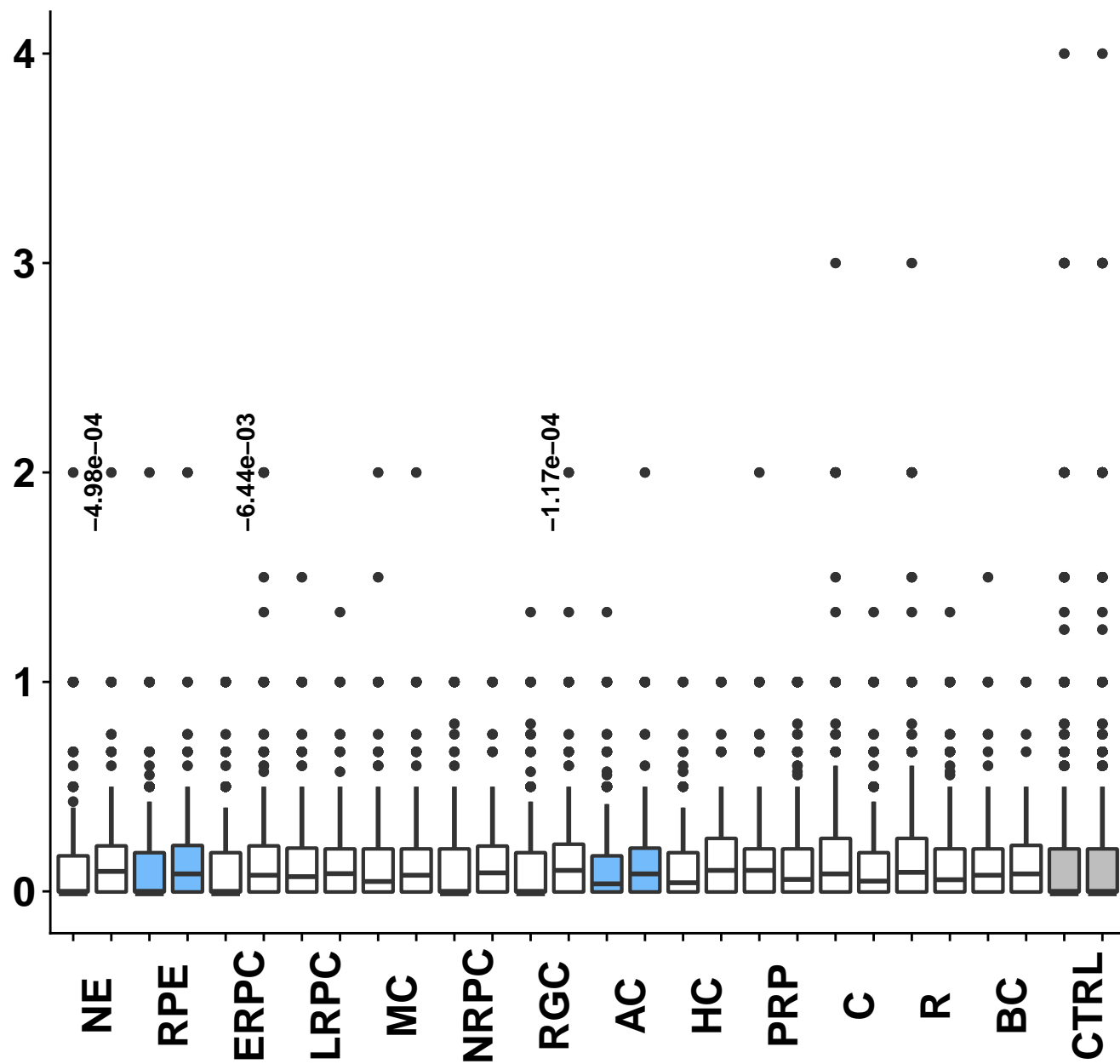
Maf_6_mean



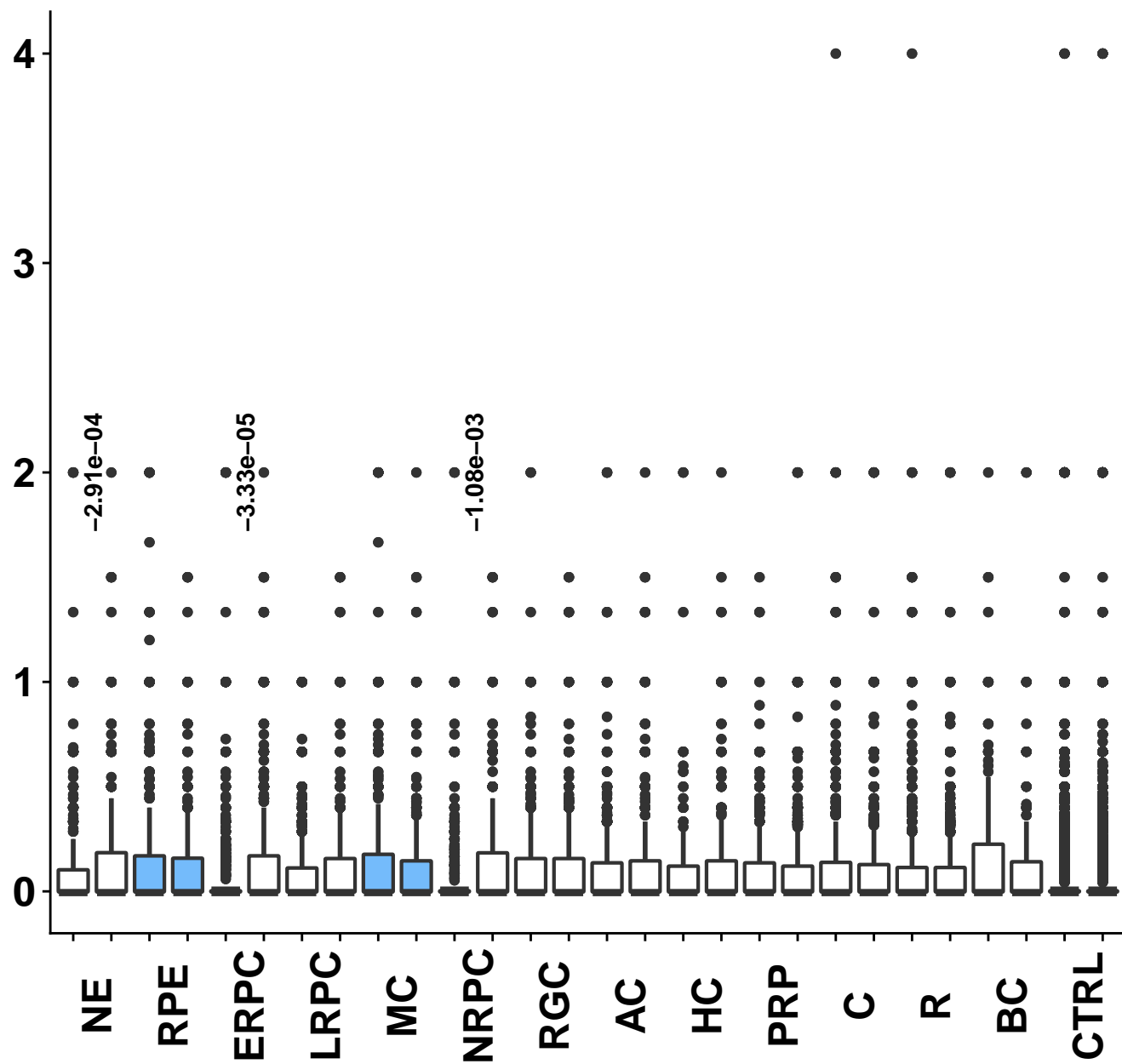
Nr4a1_1_mean



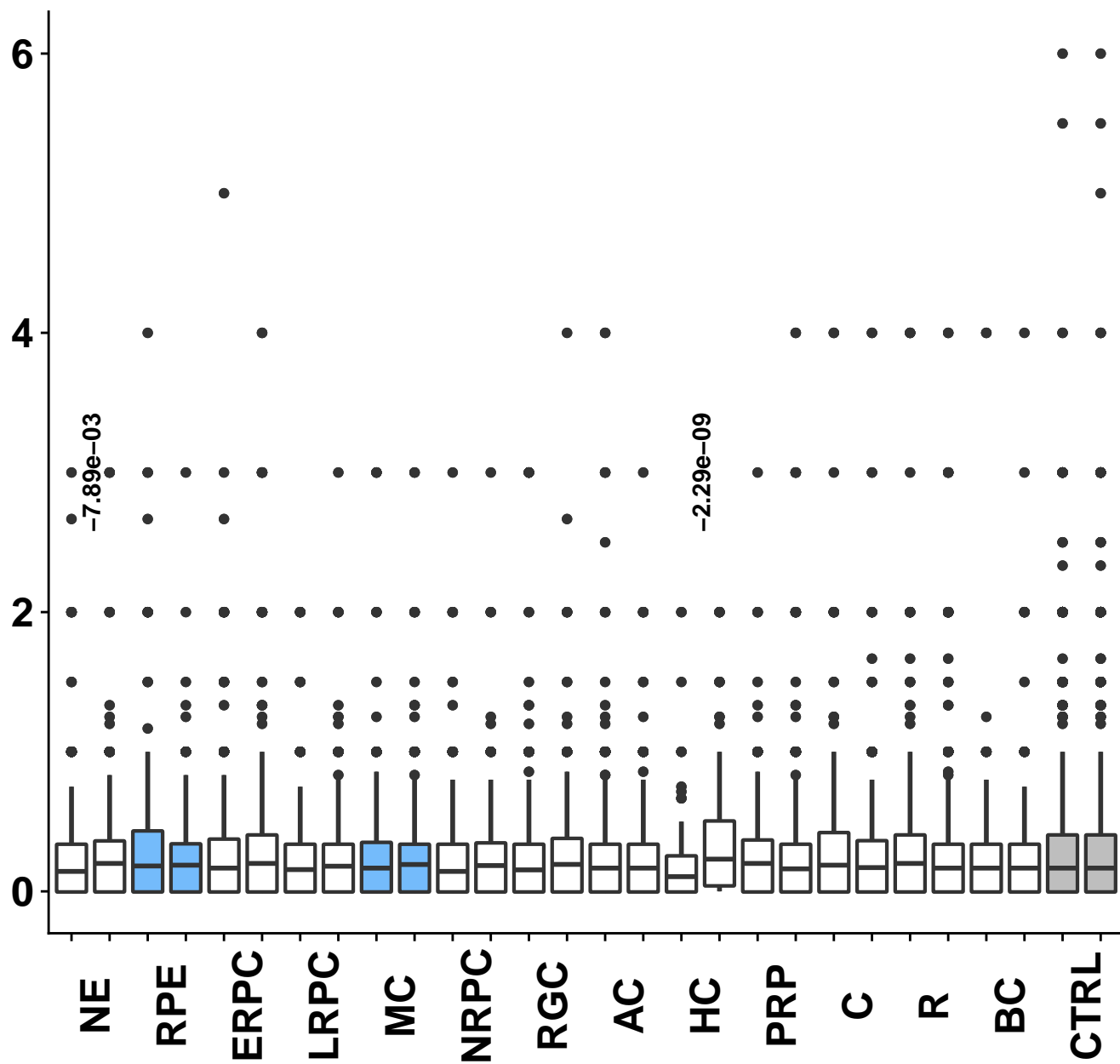
Nr4a1_2_mean



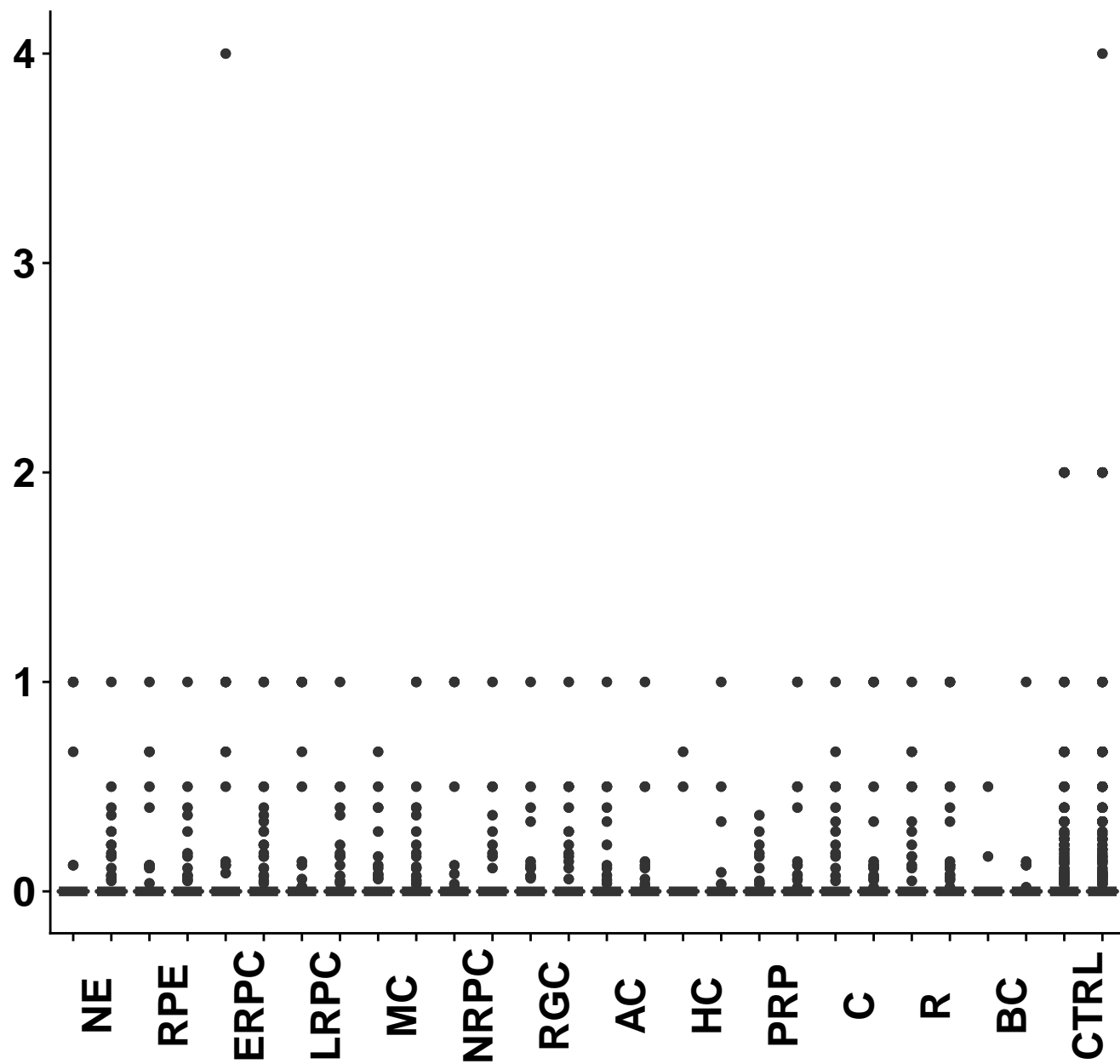
Atf3_1_mean



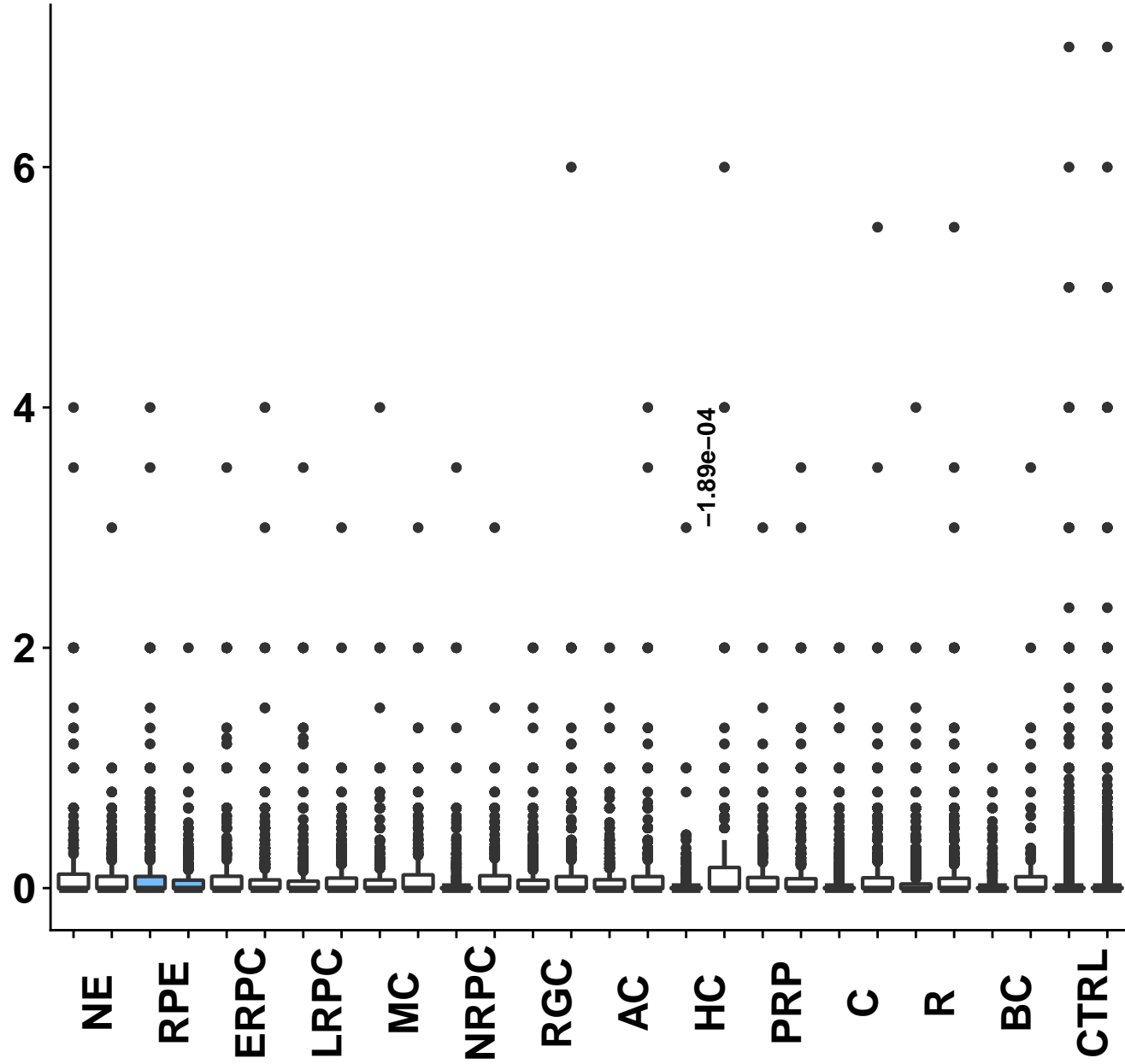
Atf3_2_mean



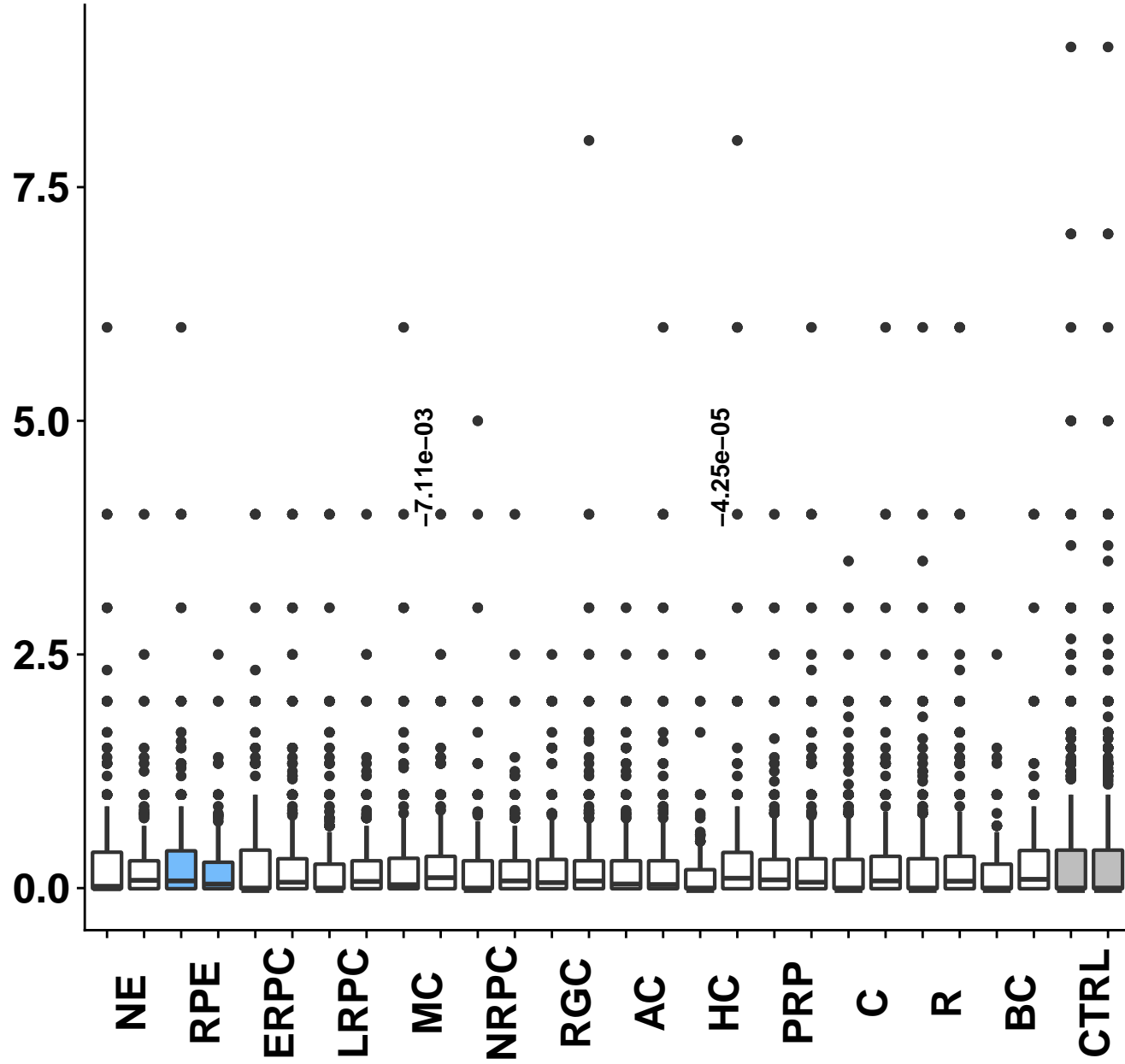
Atf3_3_mean



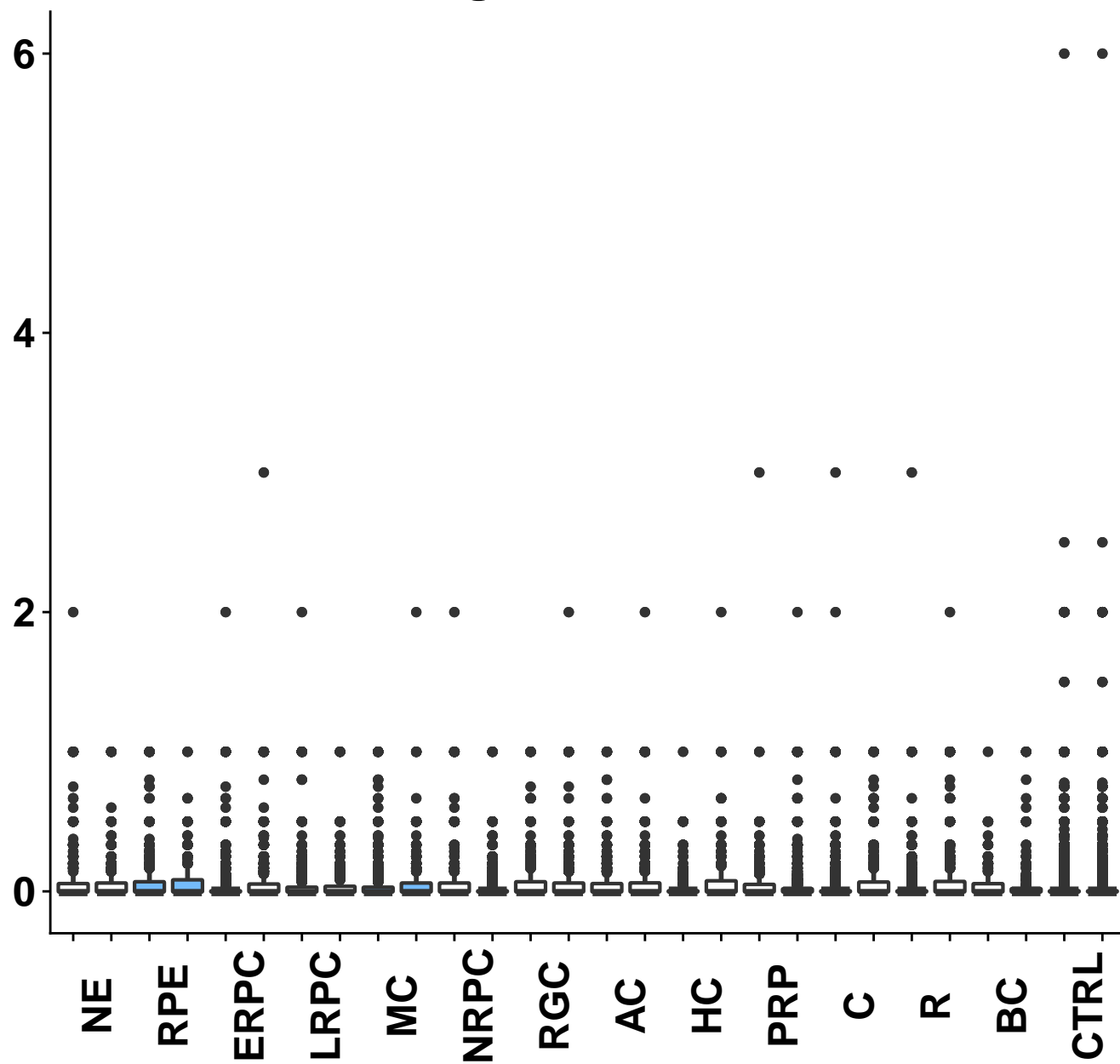
Bhlhe40_1_mean



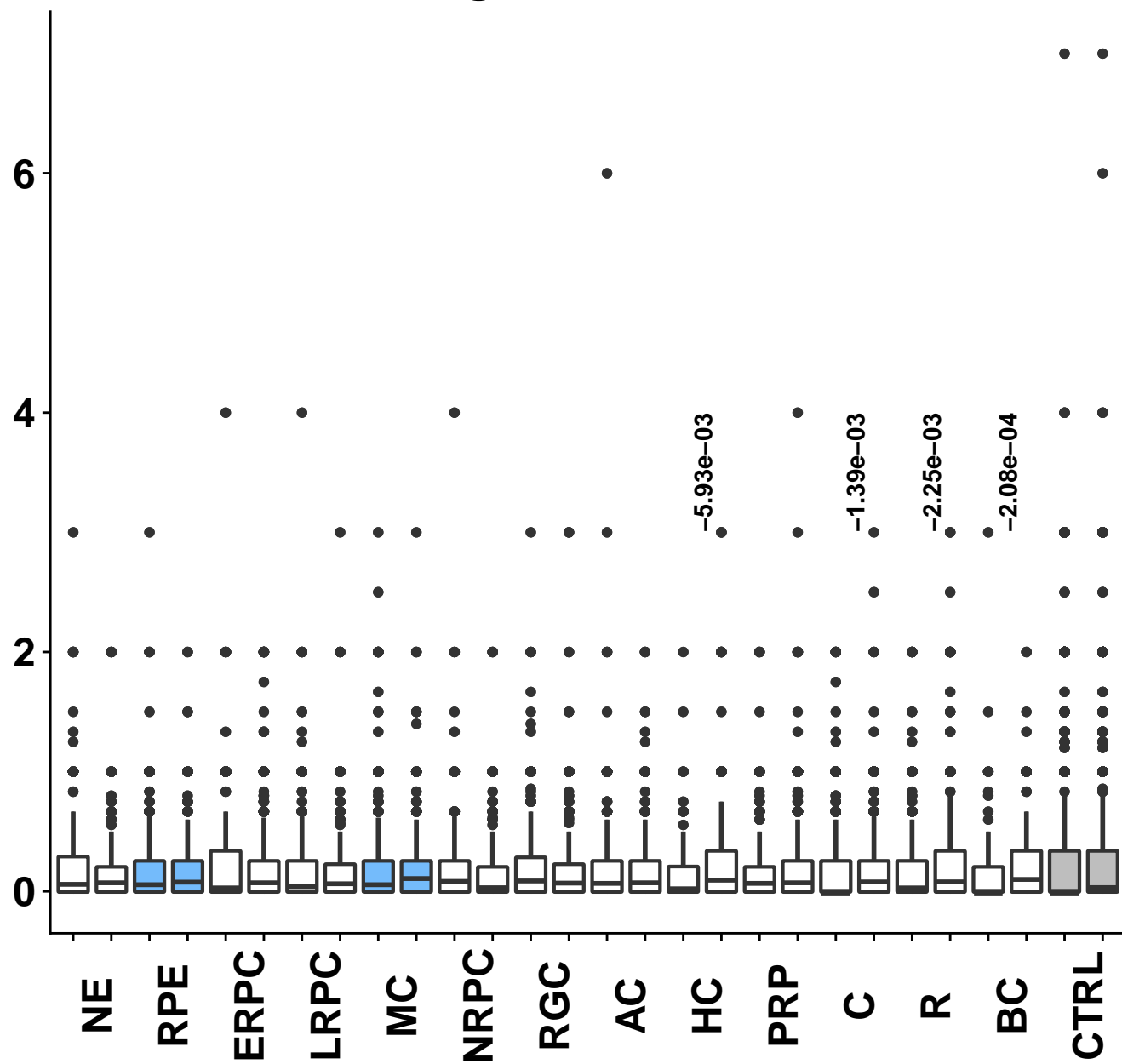
Bhlhe40_2_mean



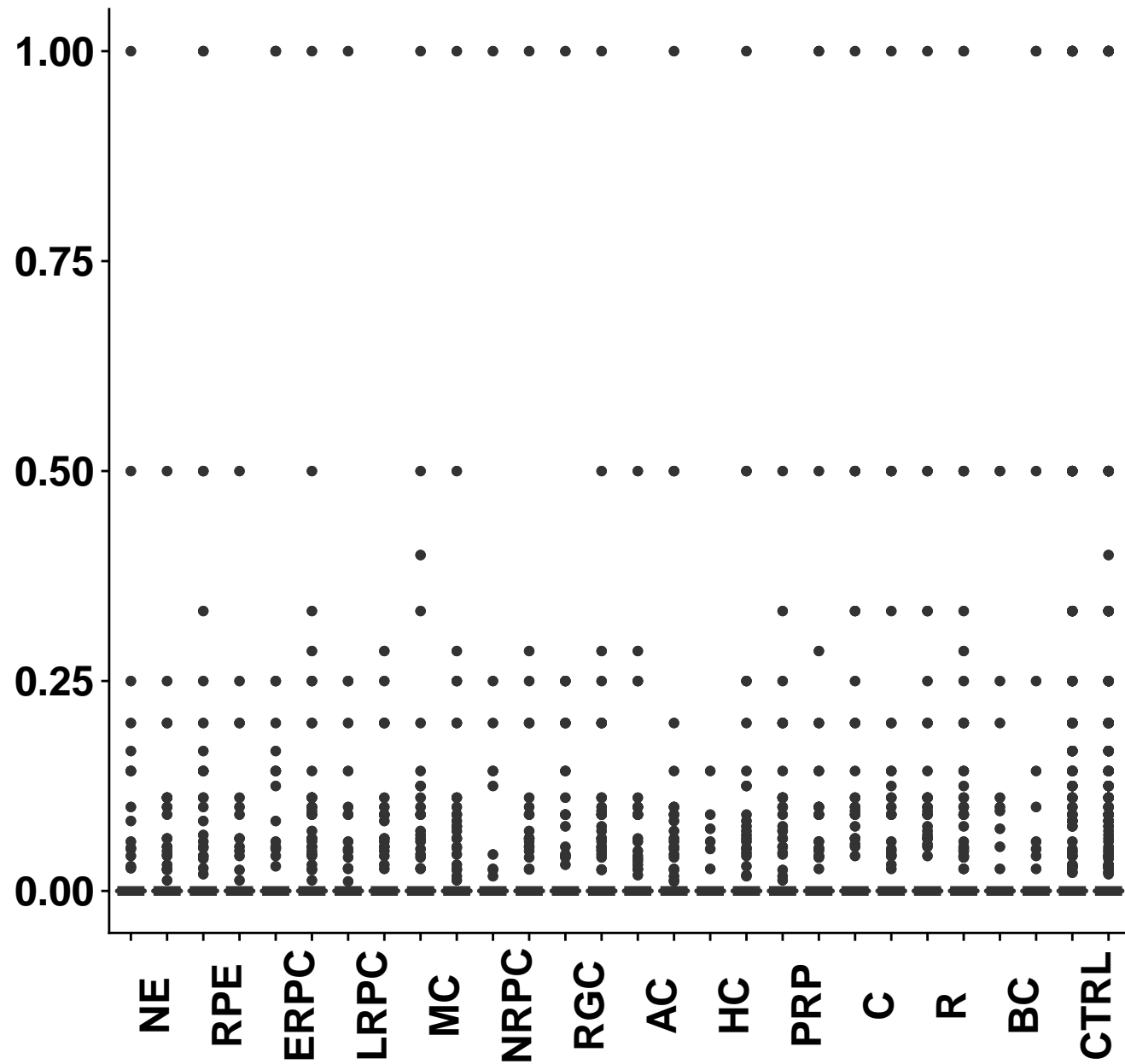
Egr2_1_mean



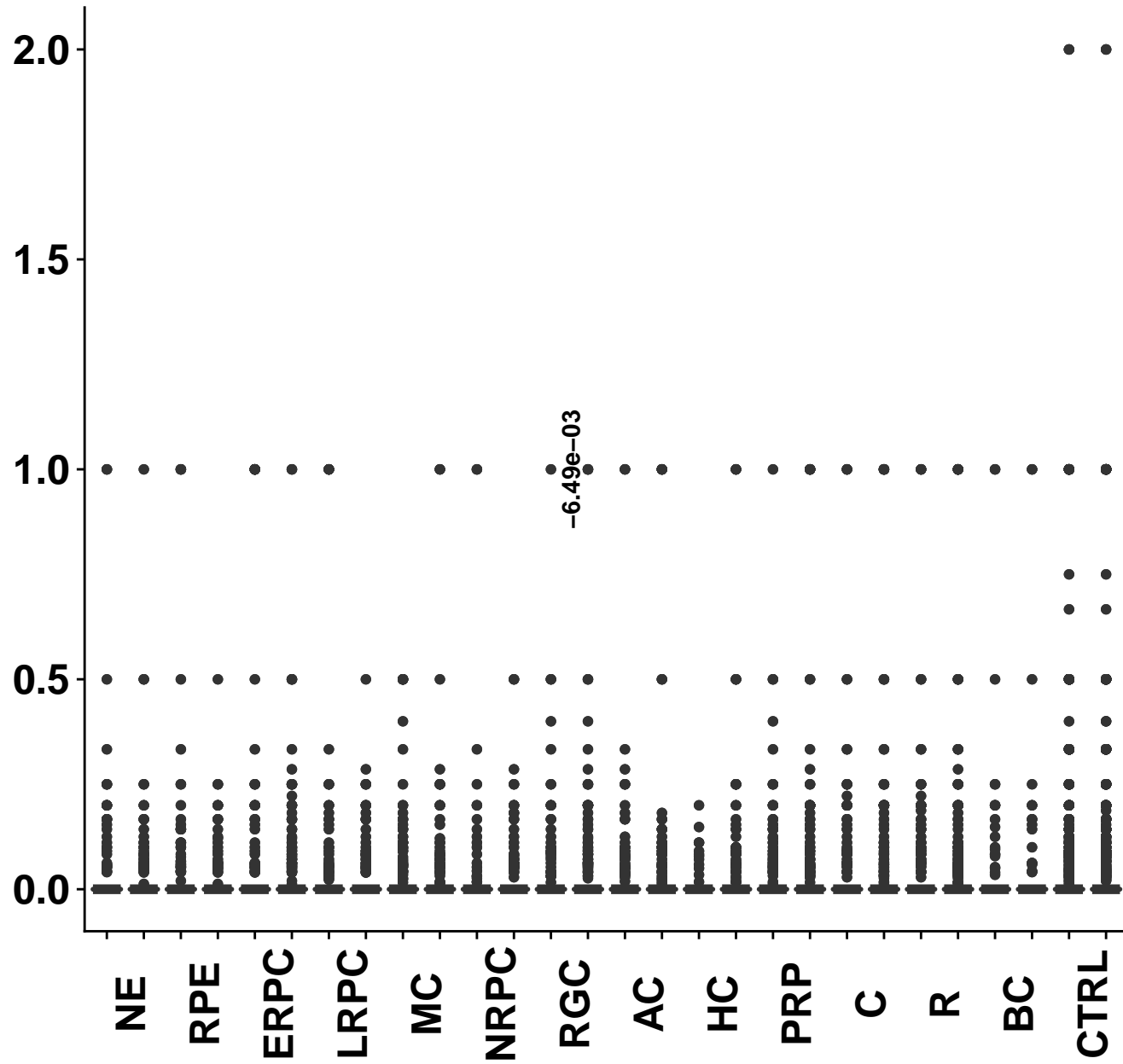
Egr2_2_mean



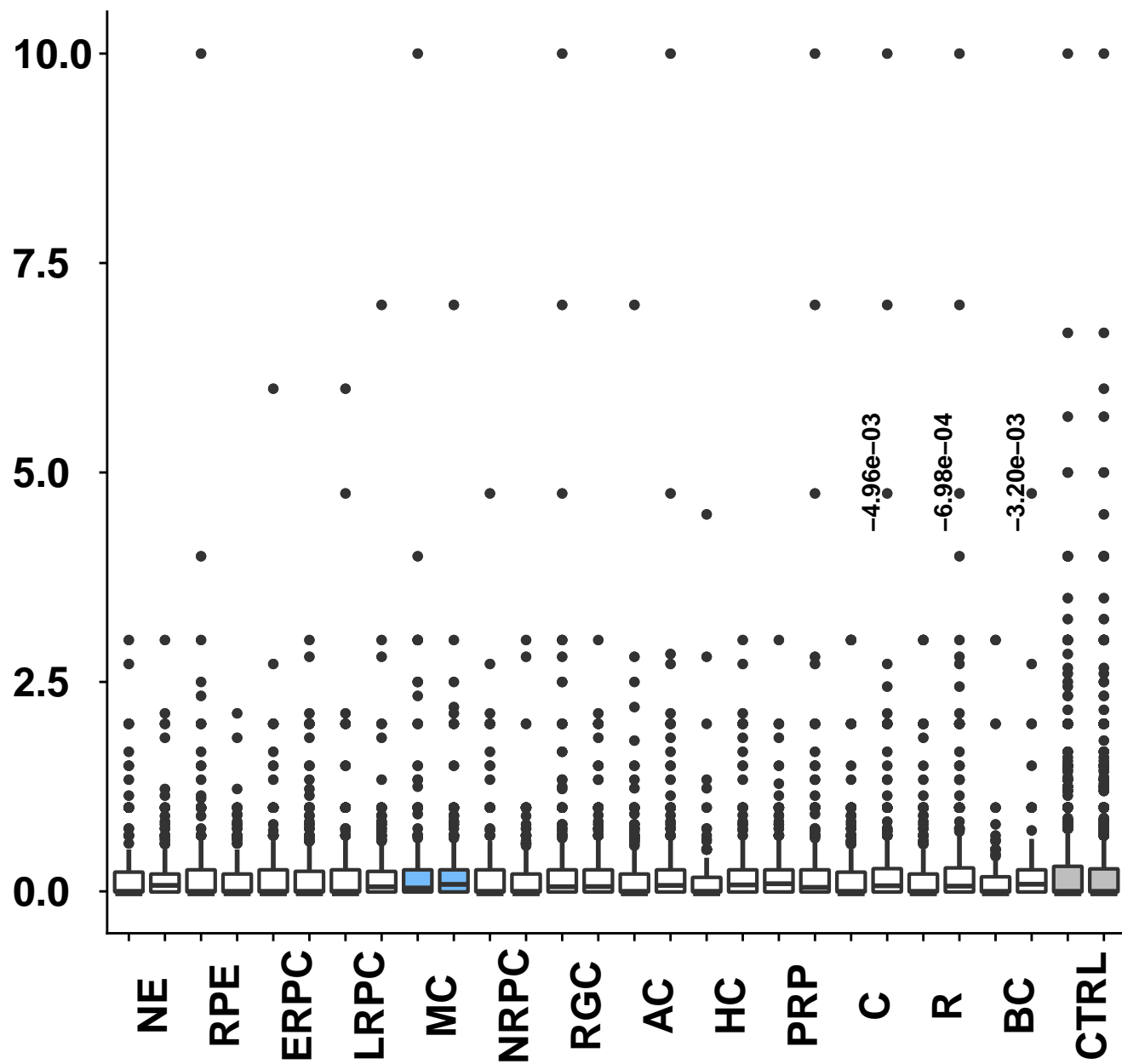
Irf1_1_mean



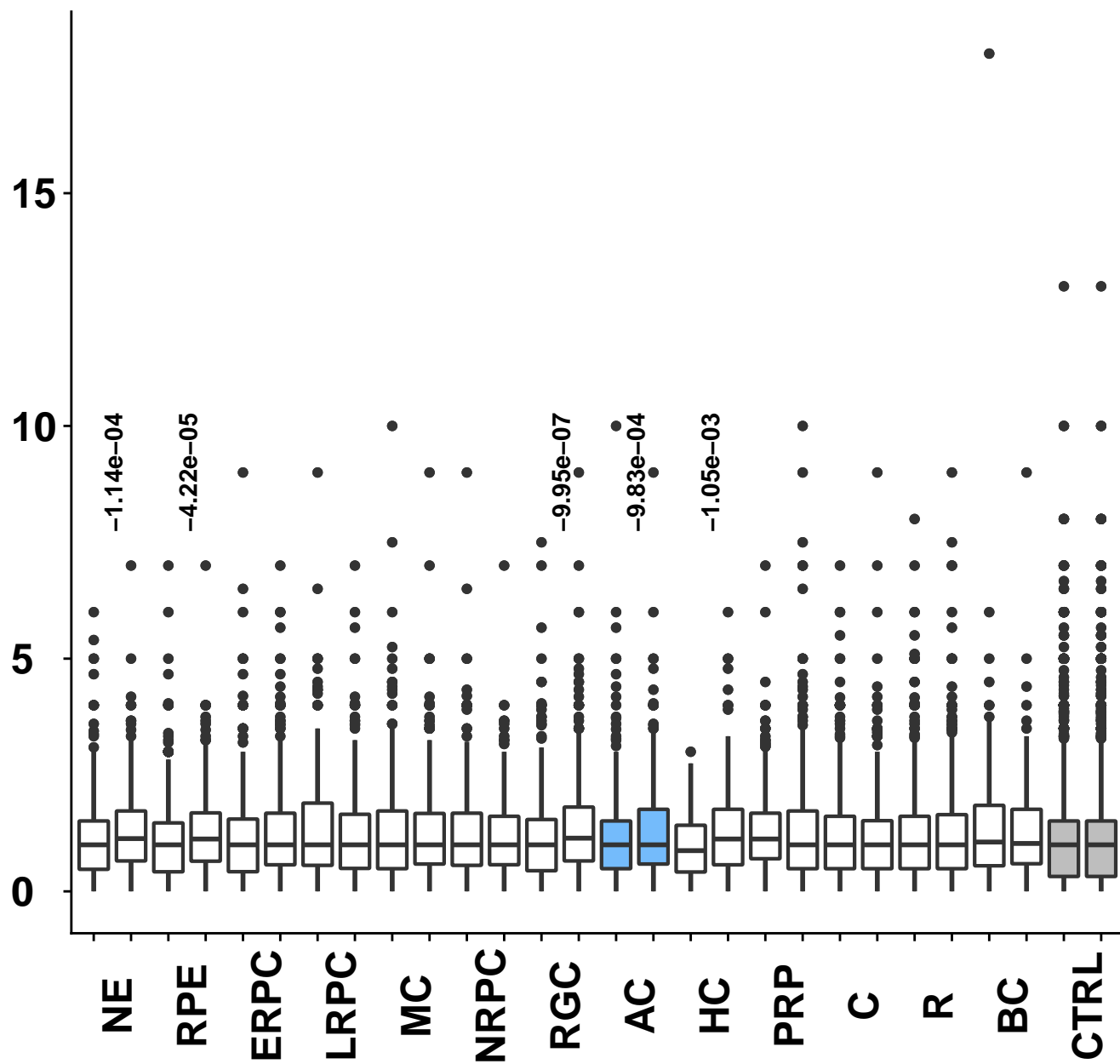
Irf1_2_mean



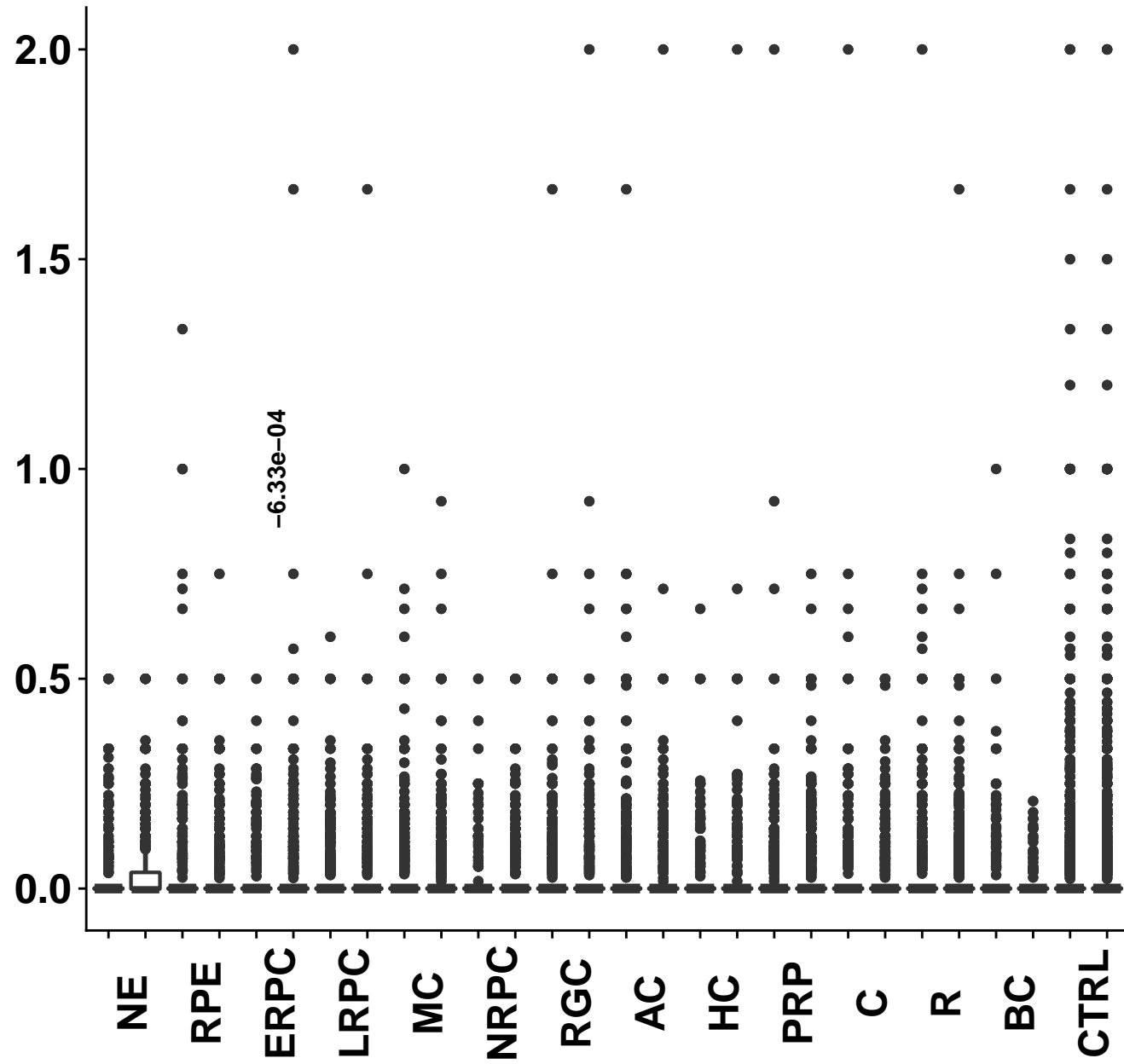
Klf10_1_mean



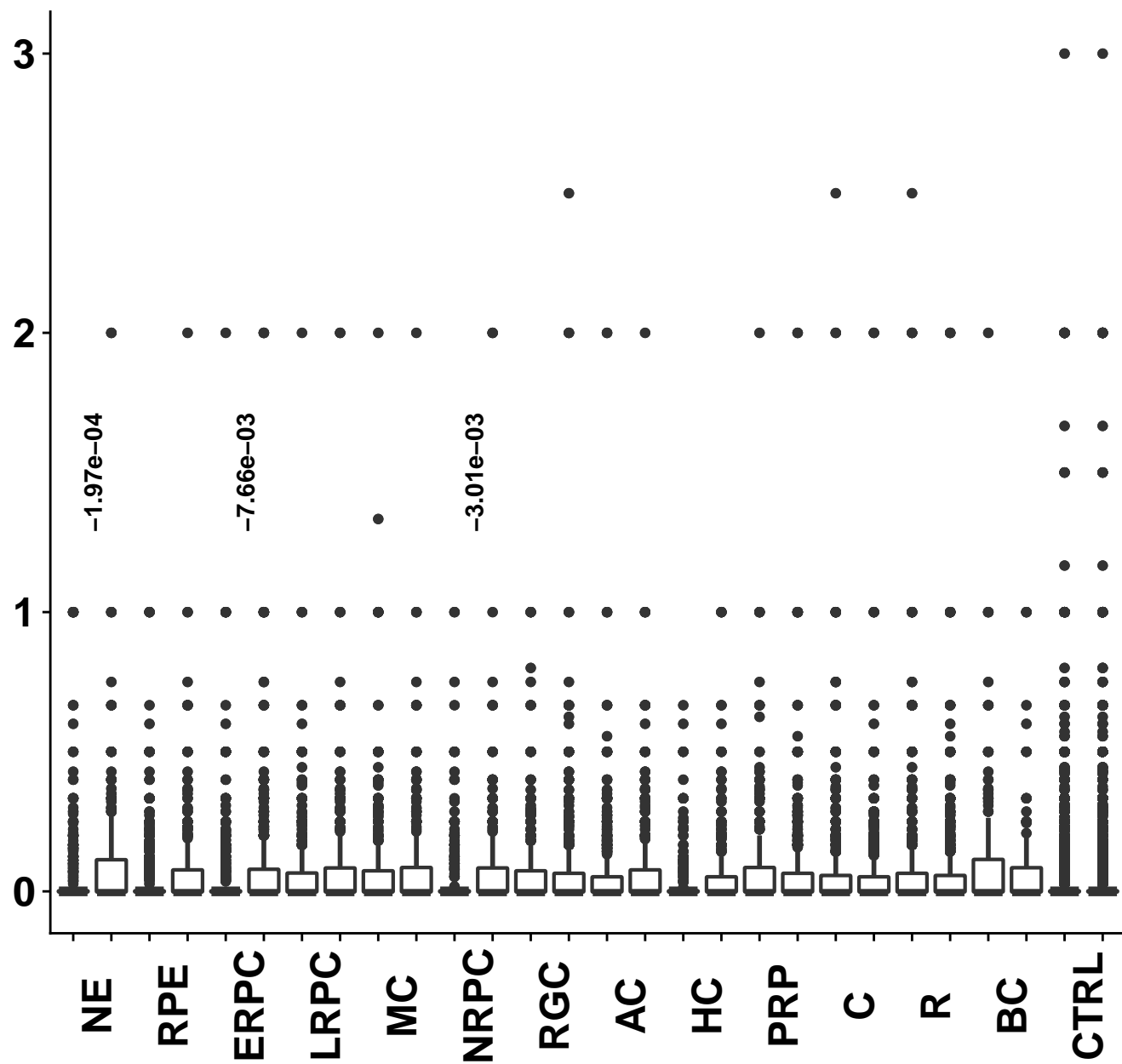
Lhx9_1_mean



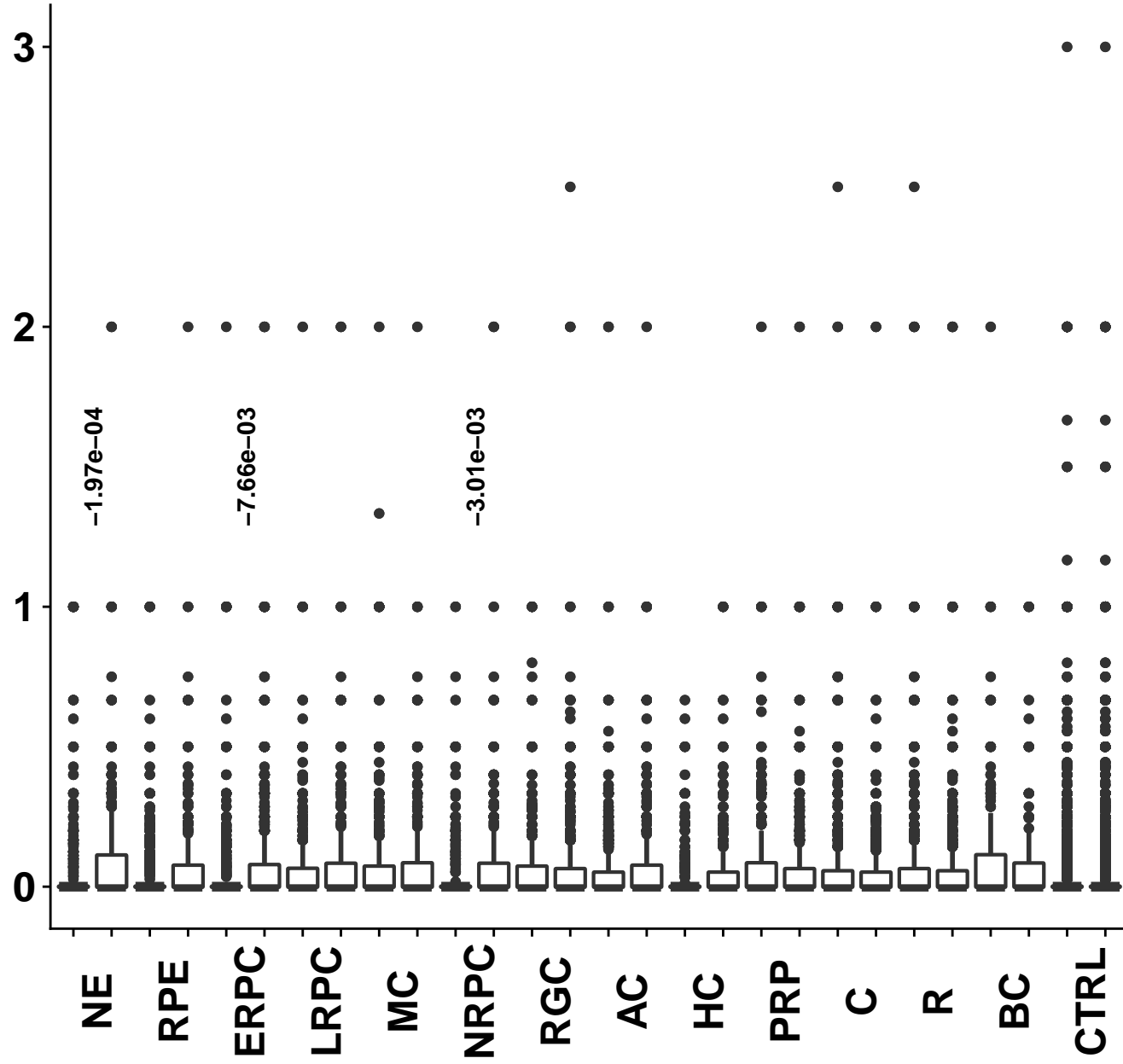
Lhx9_2_mean



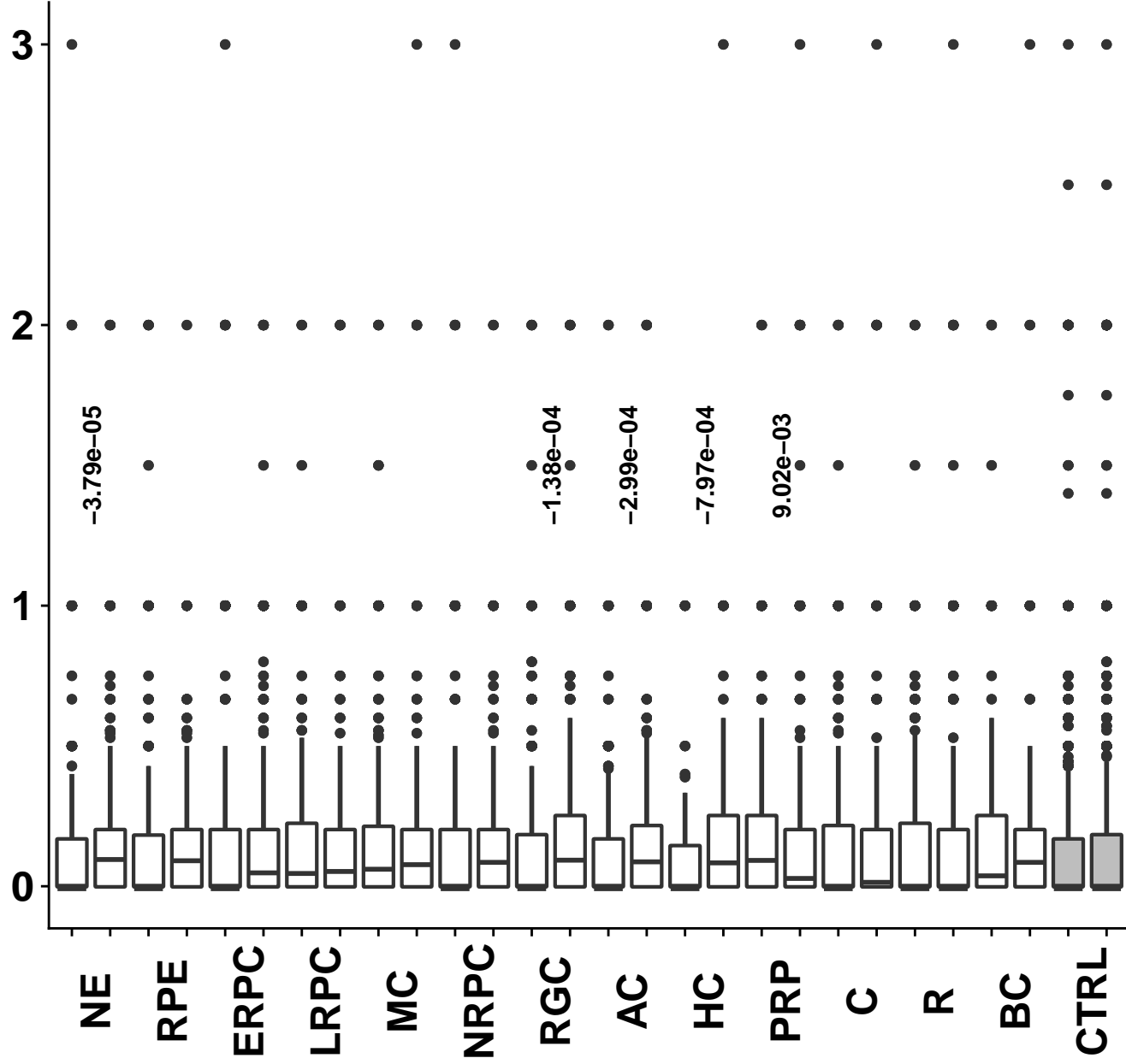
Arid5a_1_mean



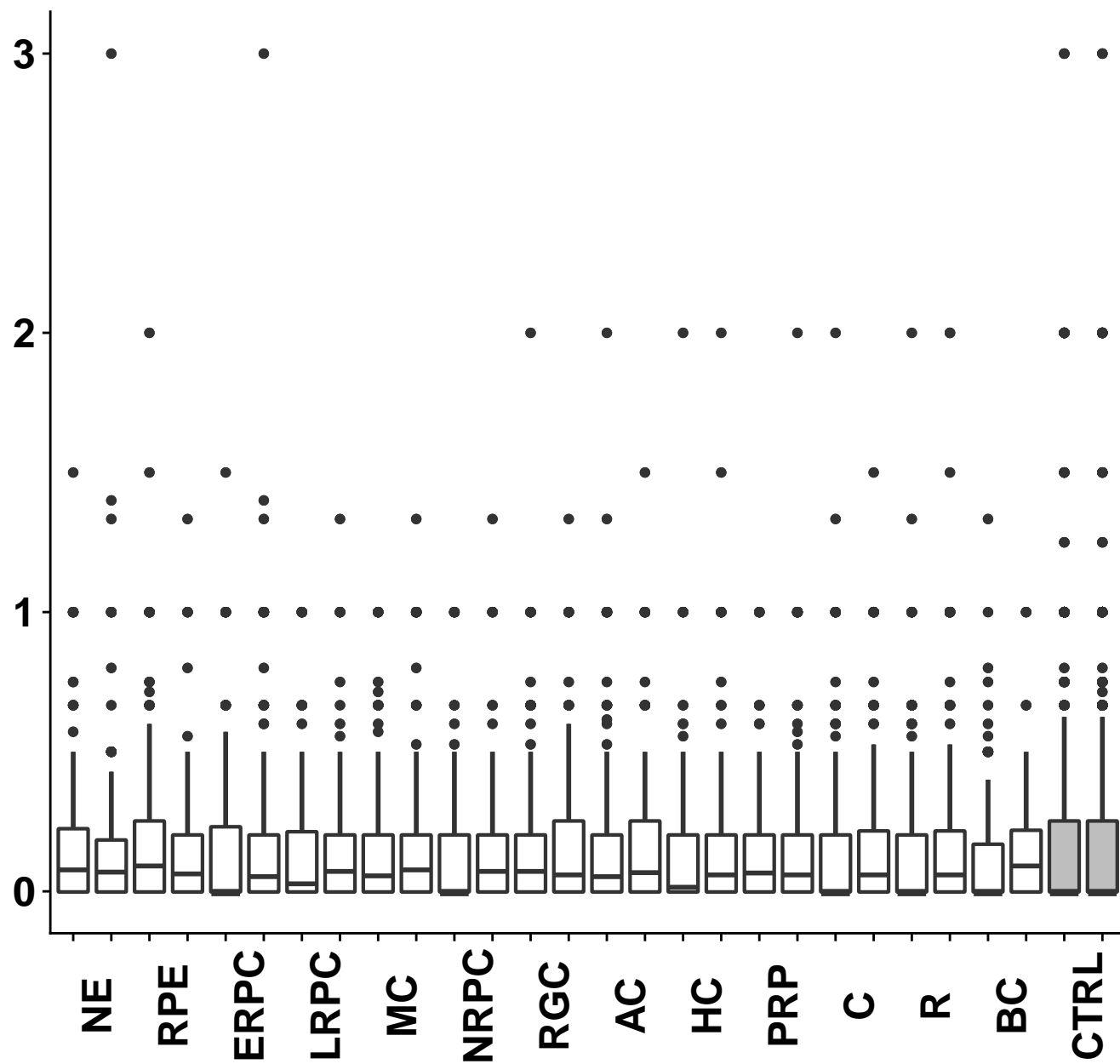
Arid5a_2_mean



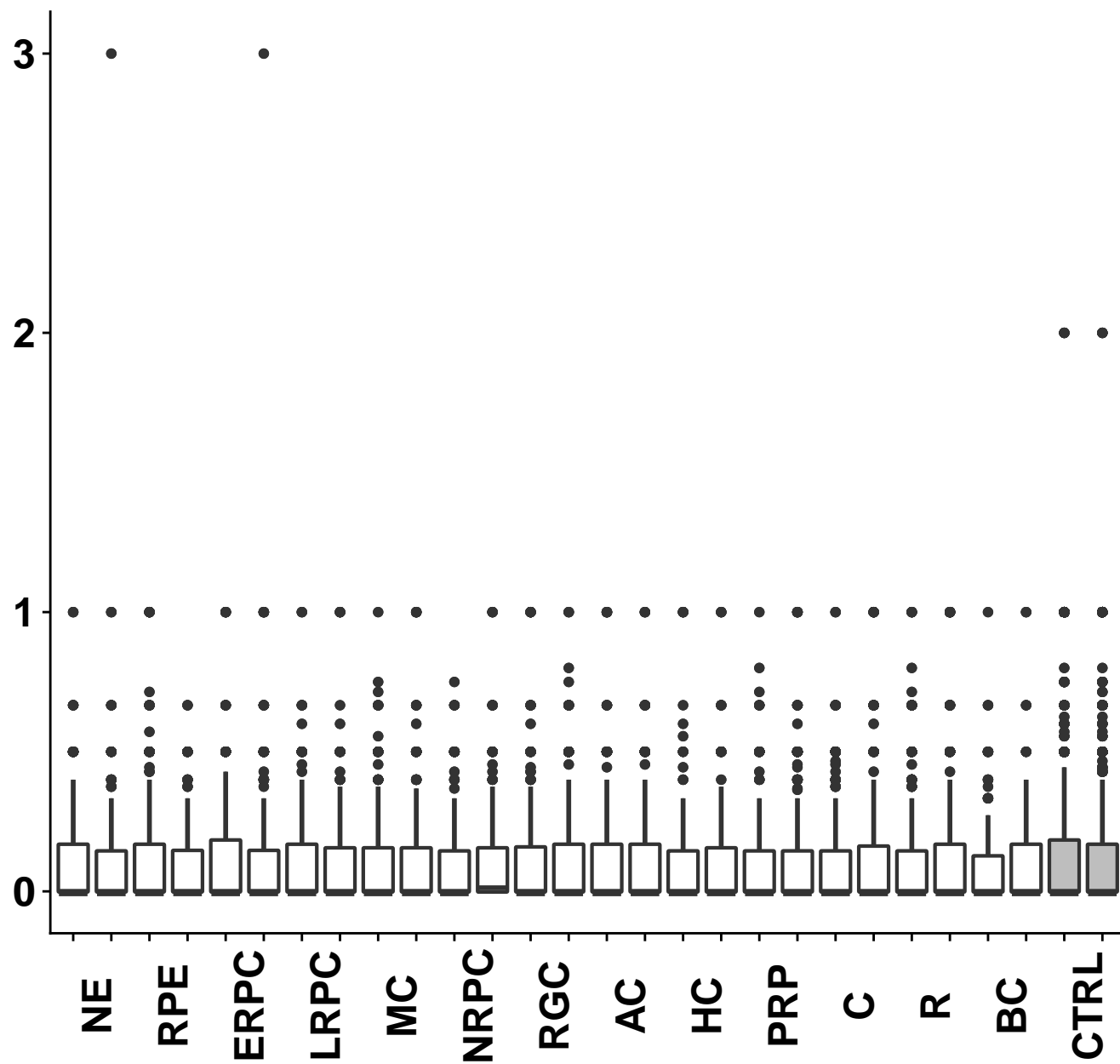
Arid5a_3_mean



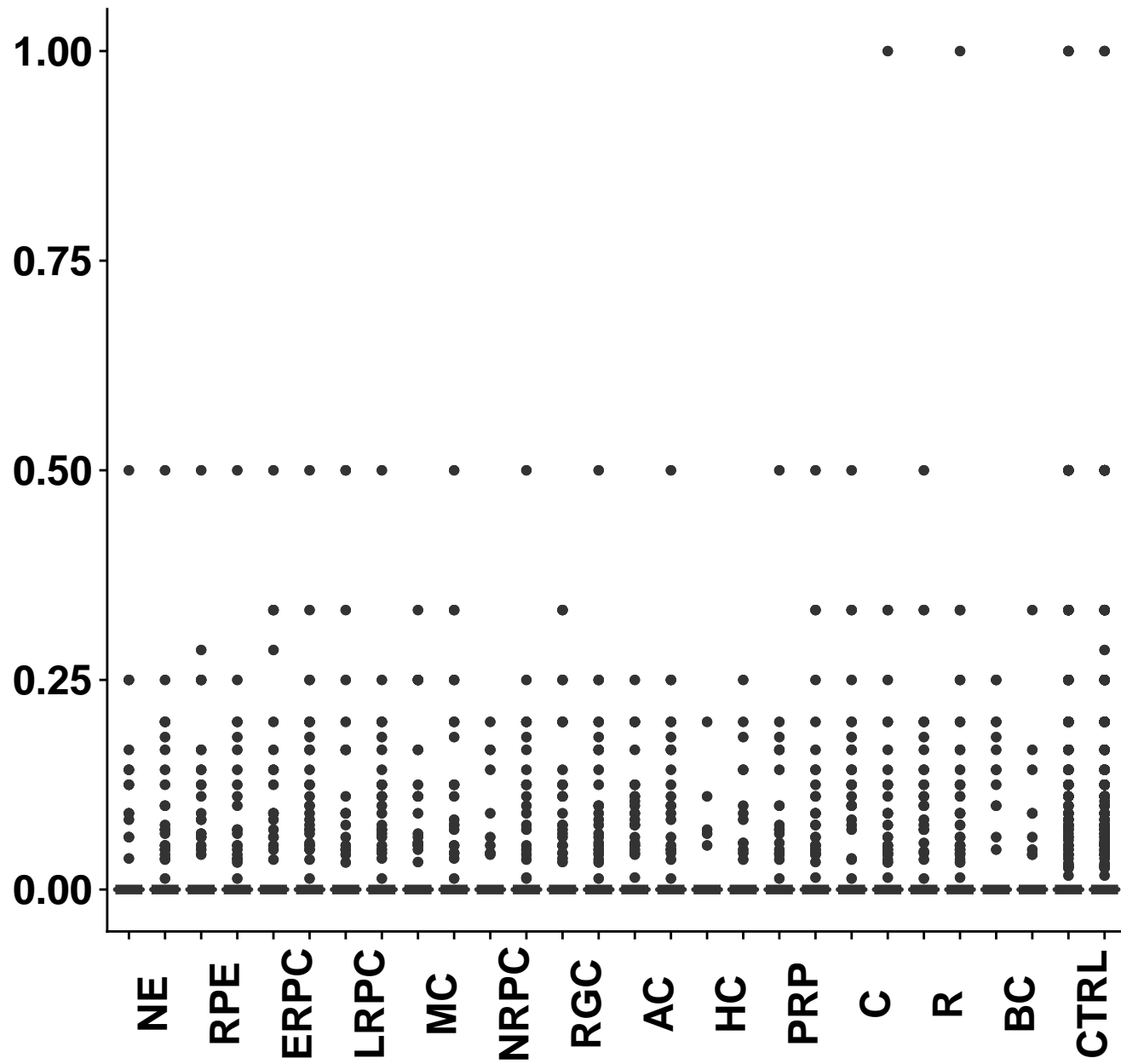
Ctcf_1_mean



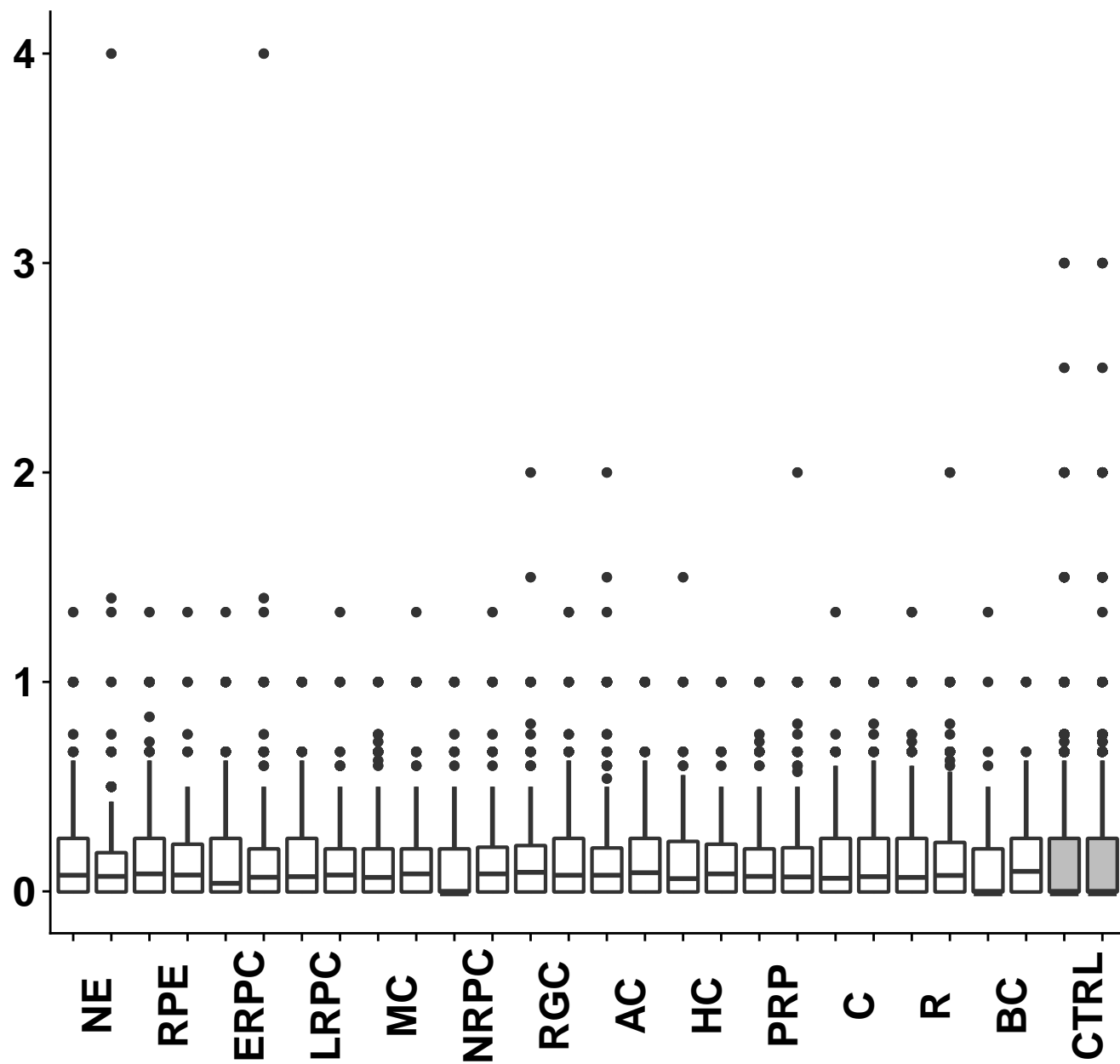
Ctcf_2_mean



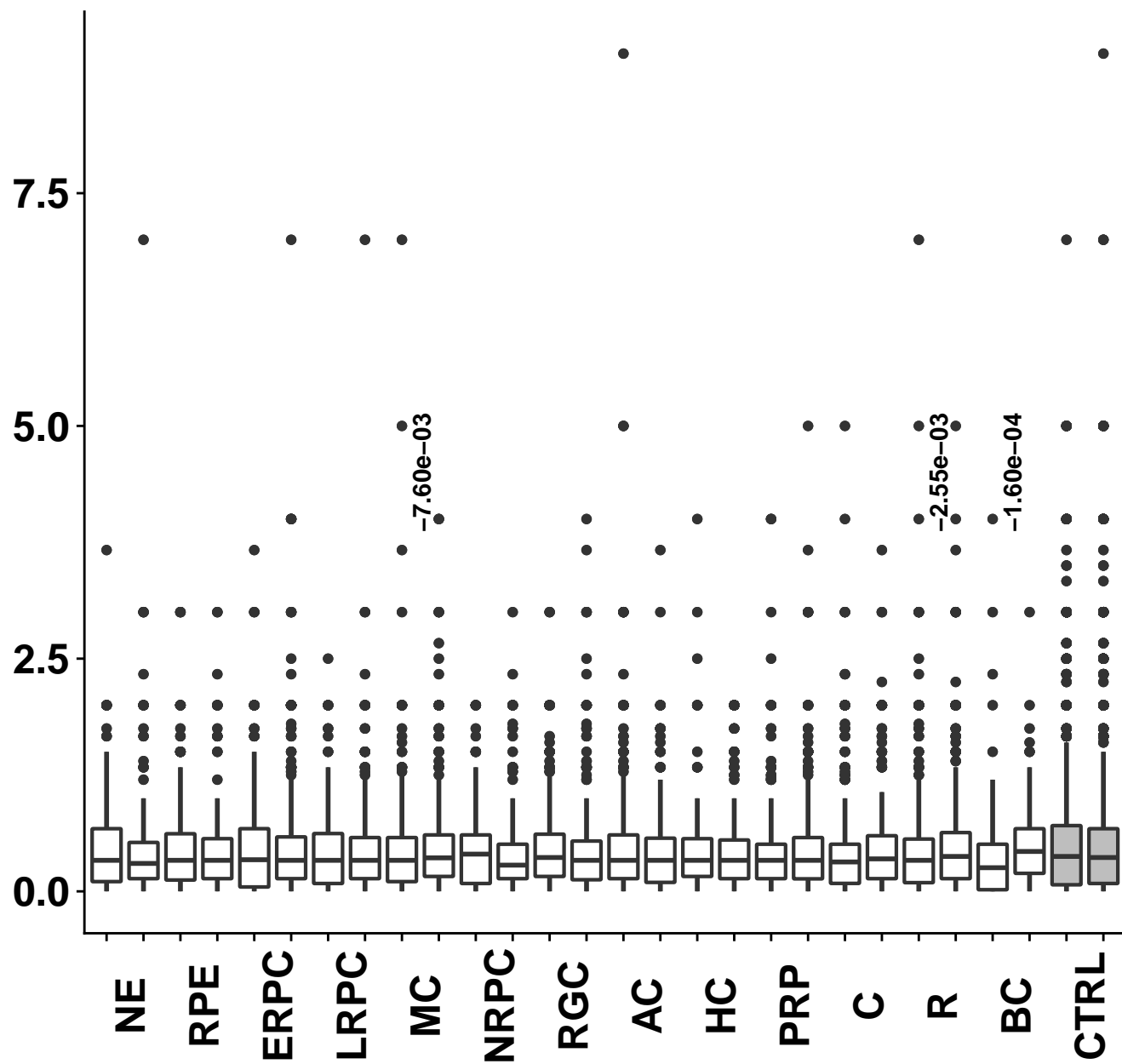
Ctcf_3_mean



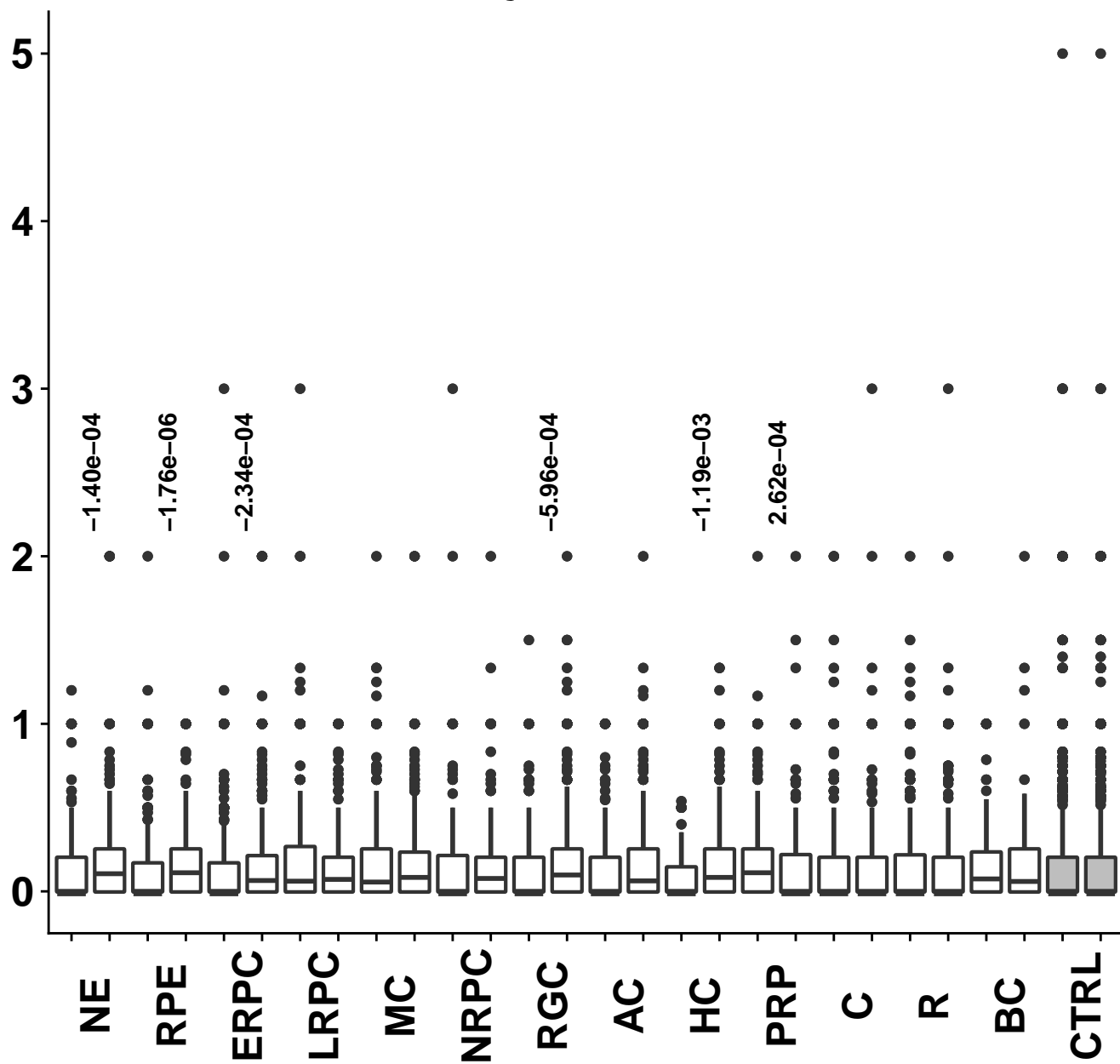
Ctcf_4_mean



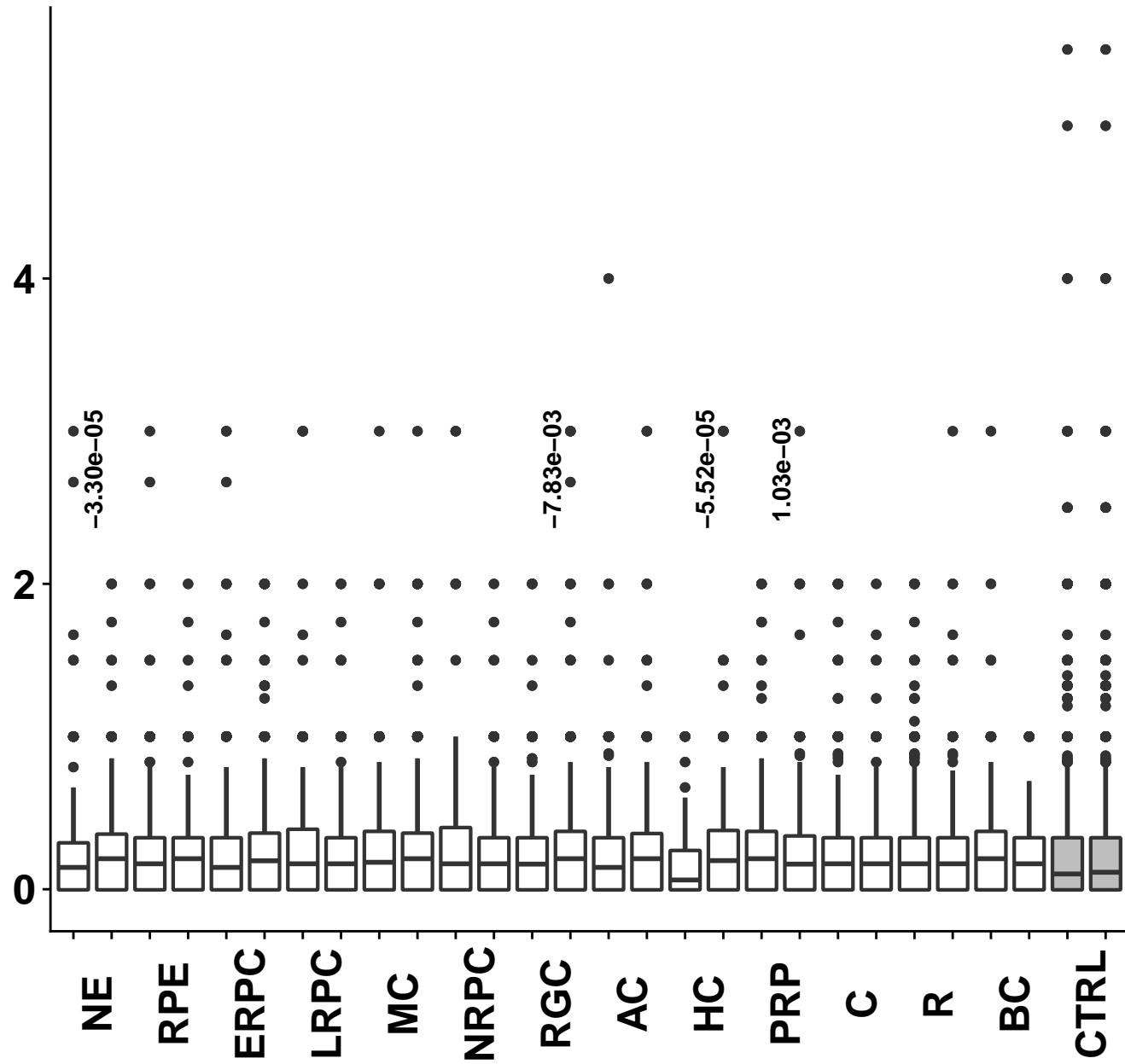
Ctcf_5_mean



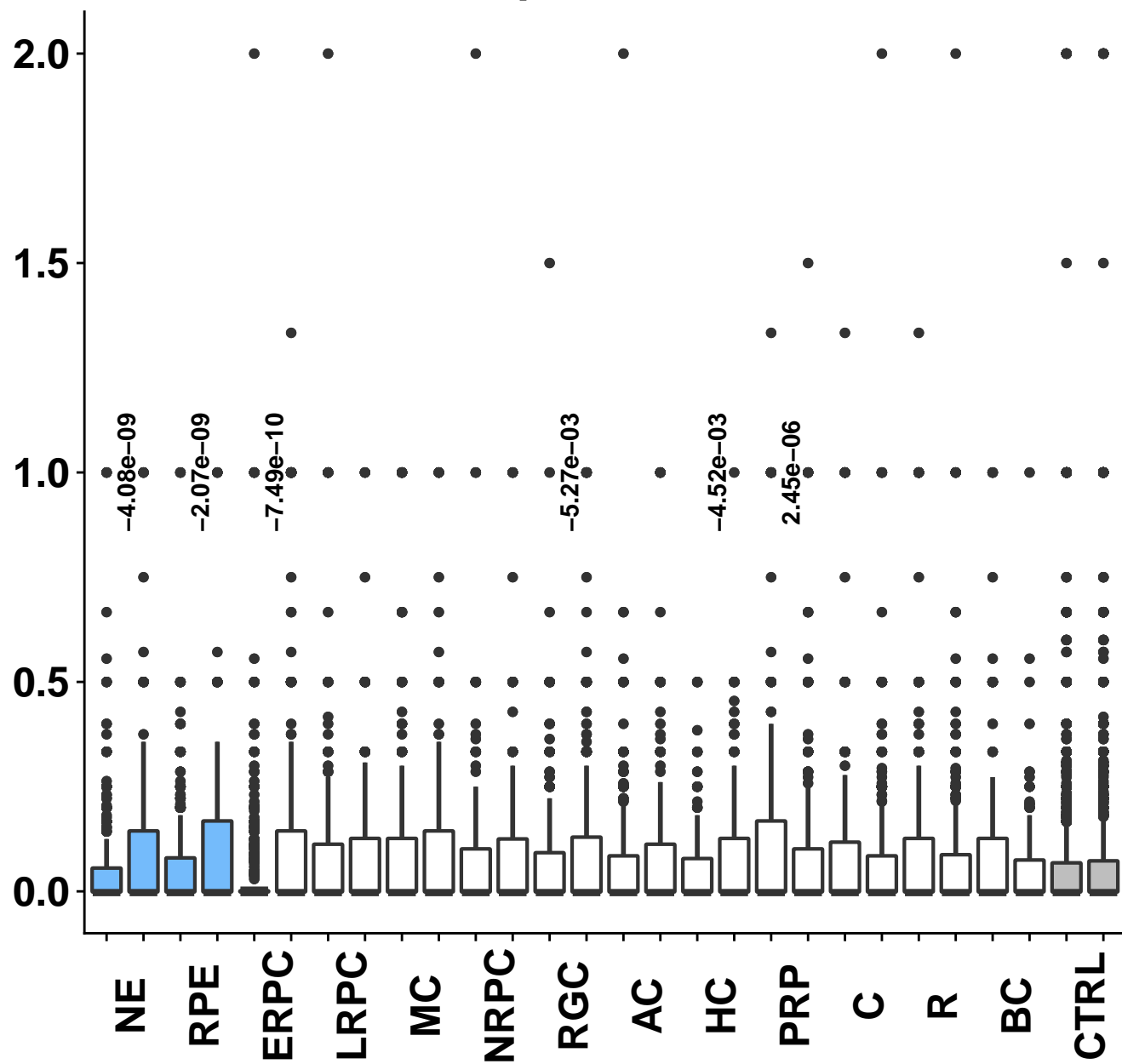
Foxj1_1_mean



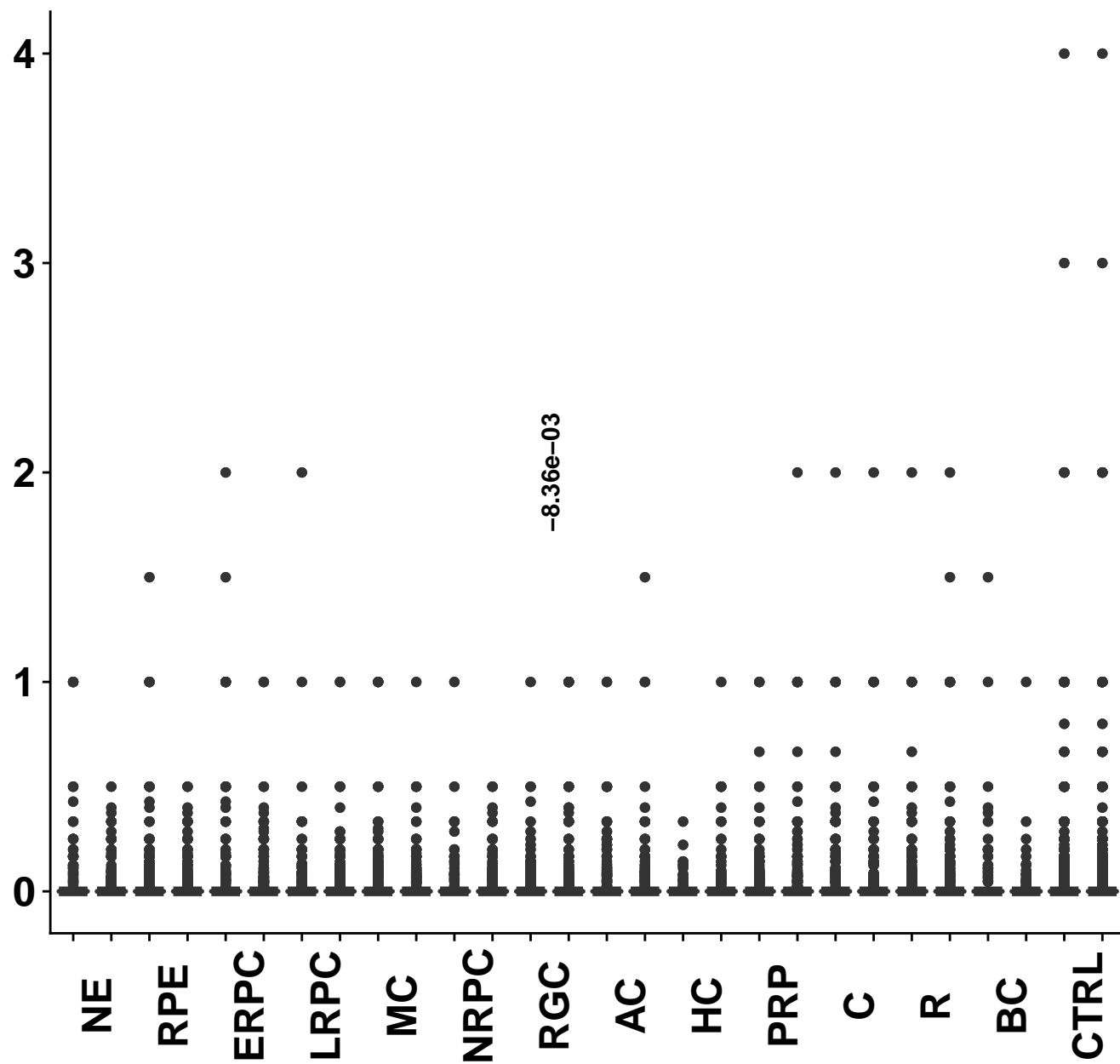
Foxj1_2_mean



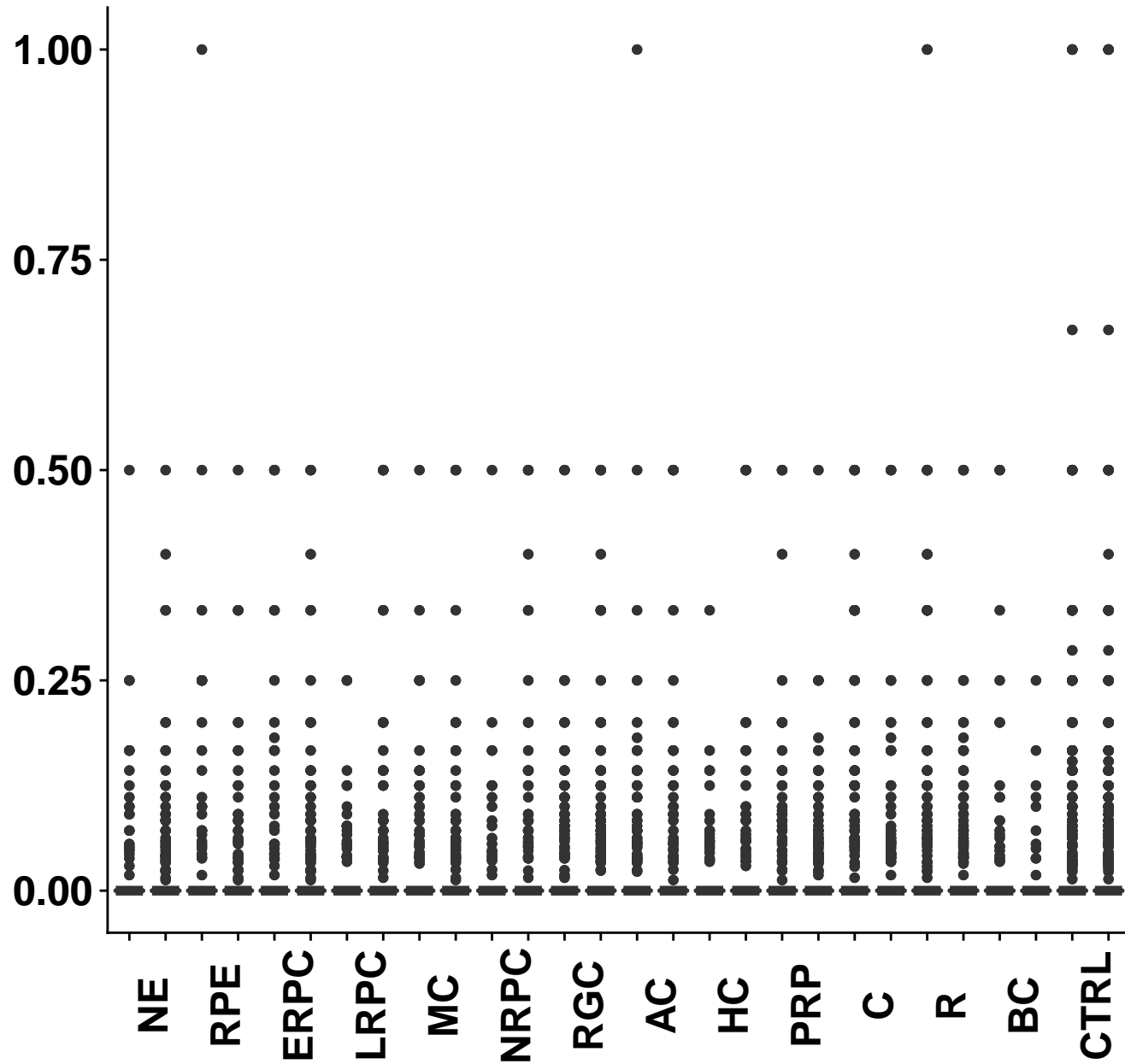
Foxp2_1_mean



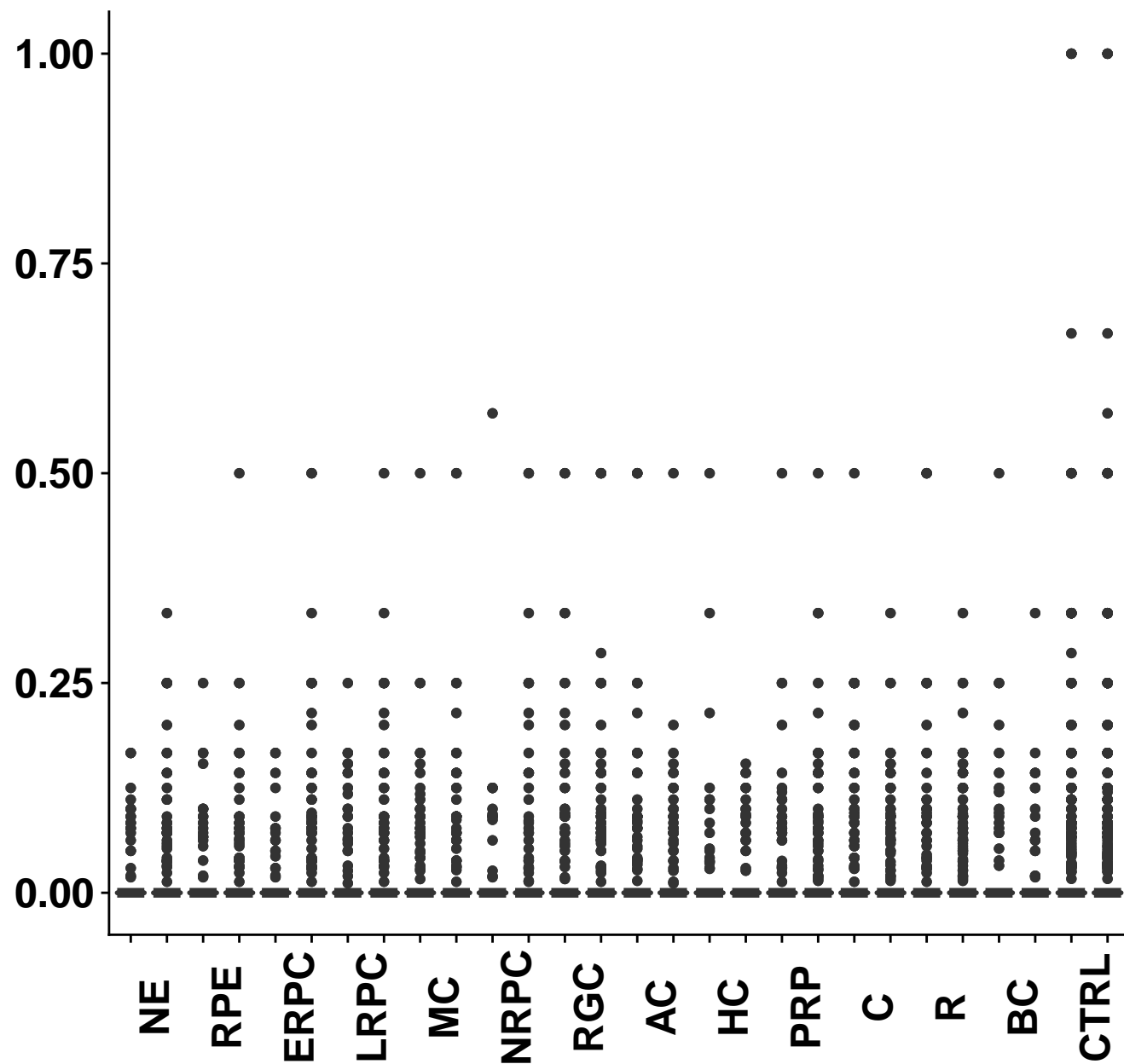
Hsf2_1_mean



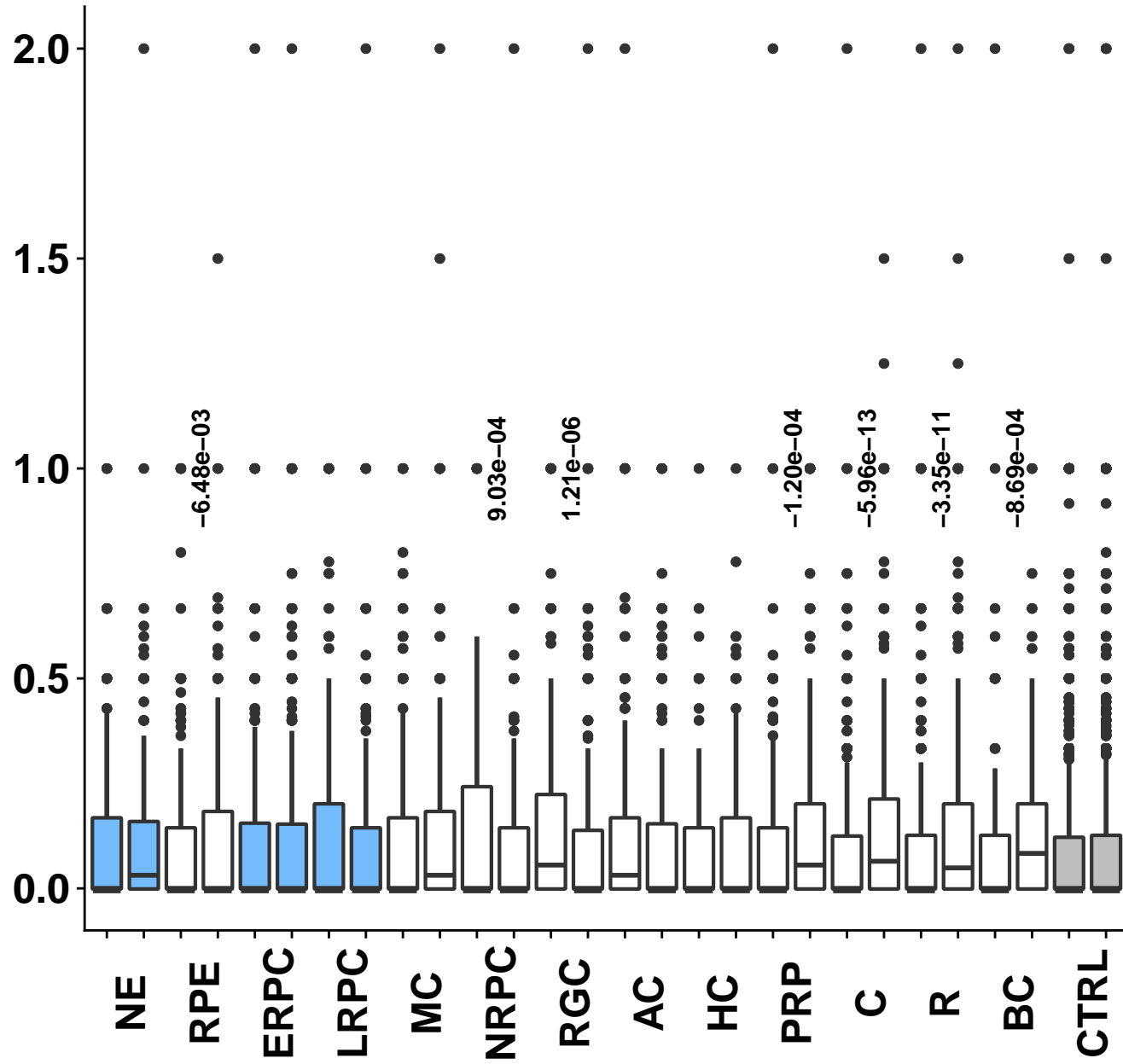
Mecom_1_mean



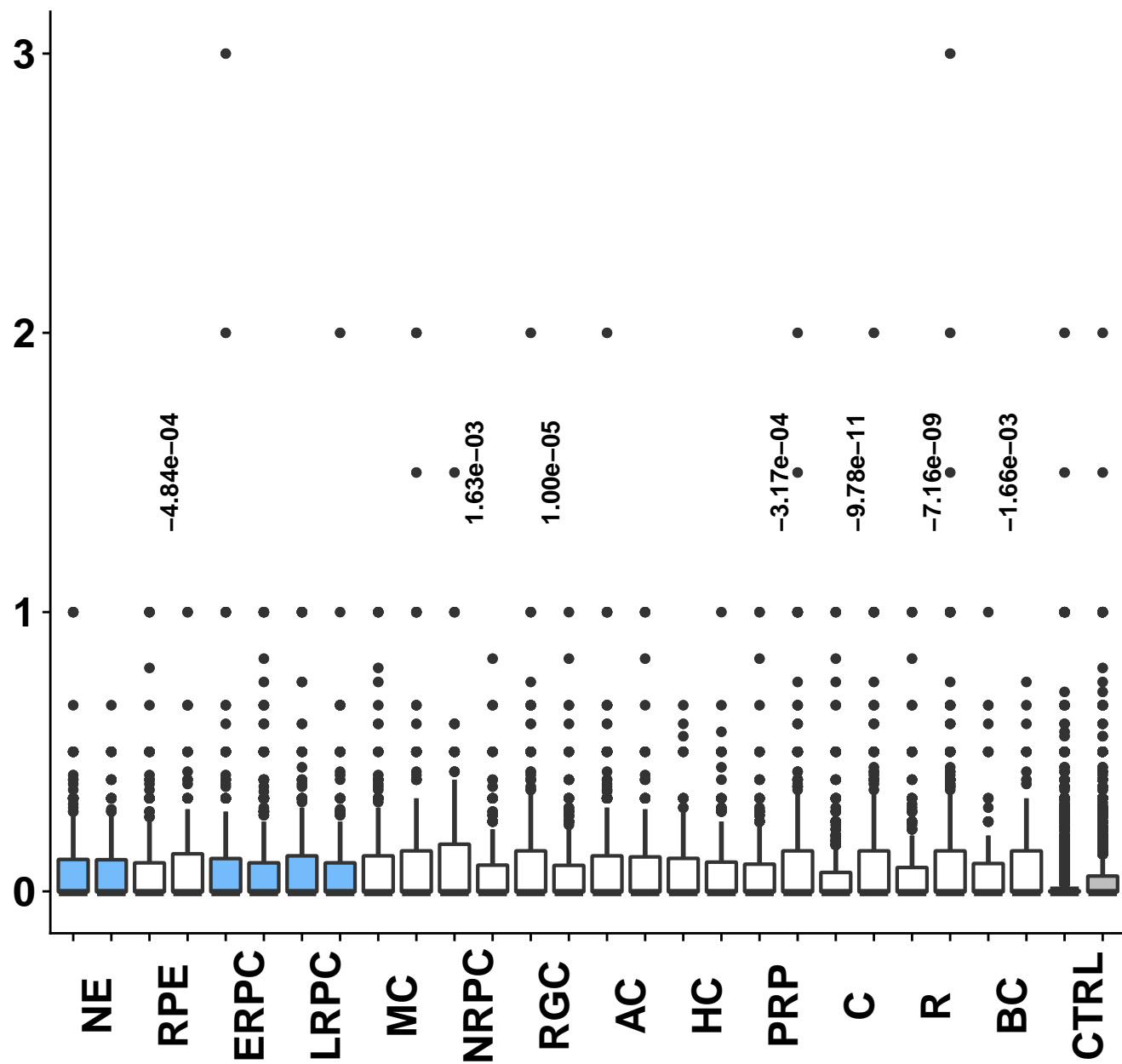
Sox2_1_mean



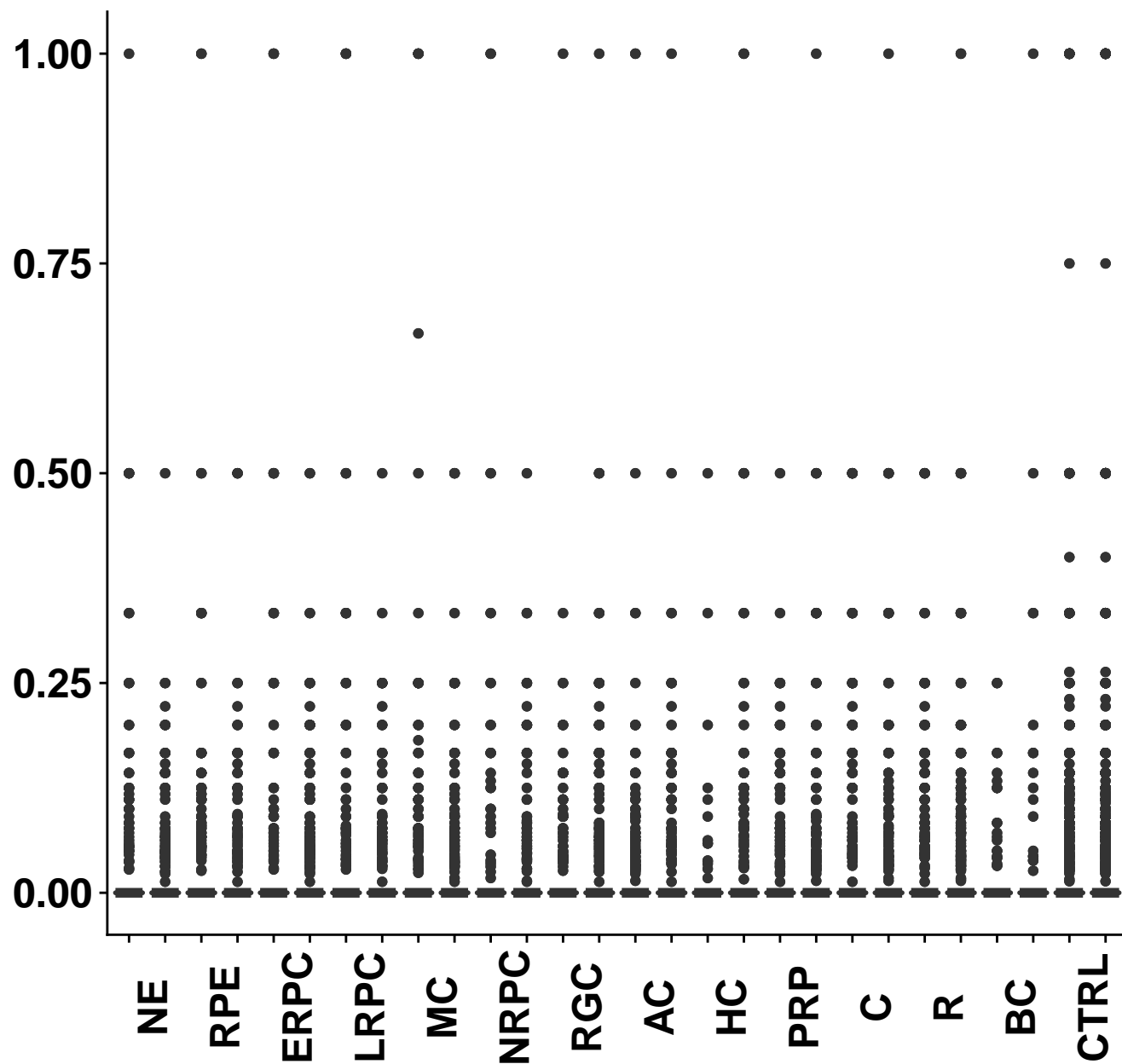
Sox2_2_mean



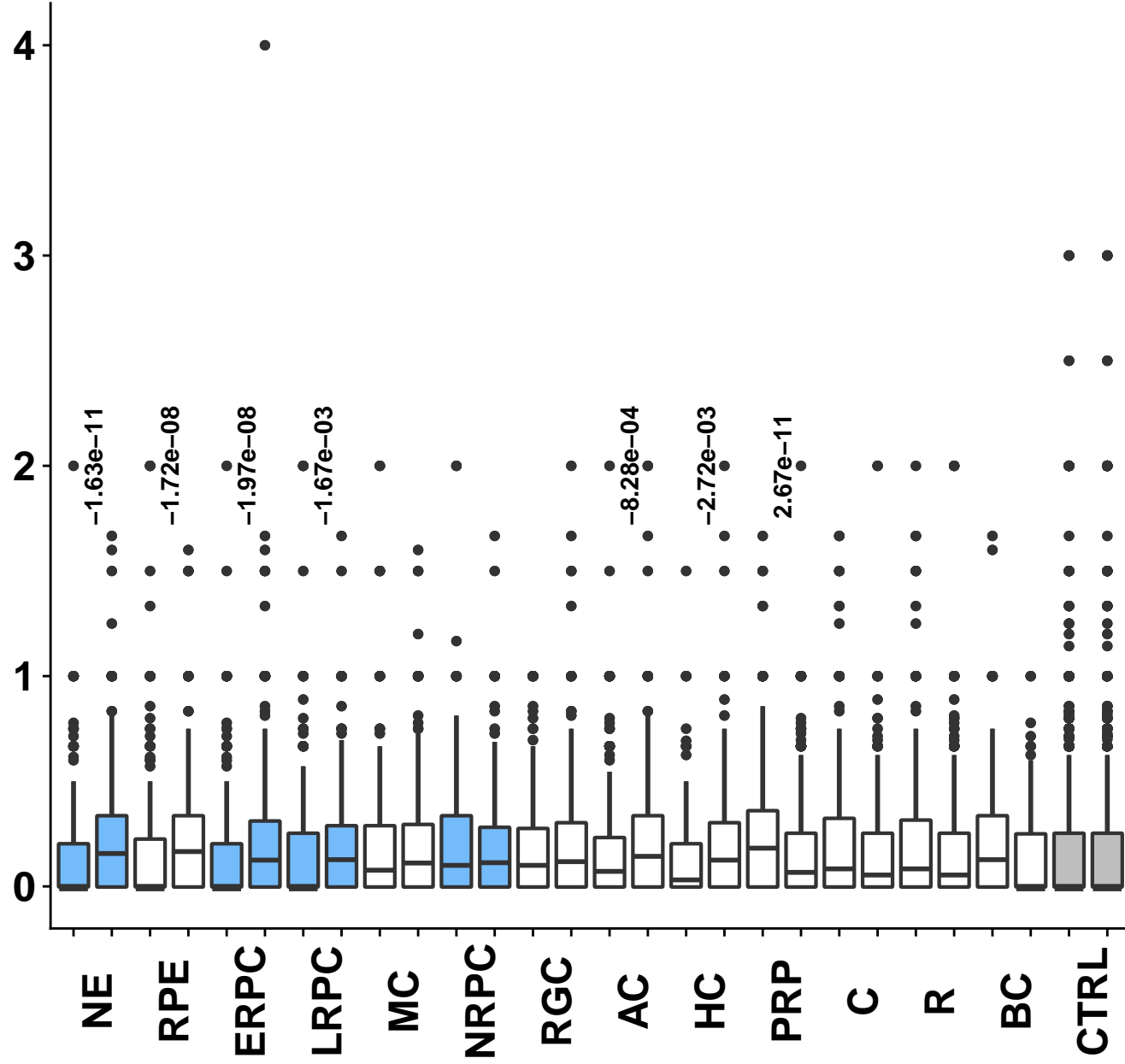
Sox2_4_mean



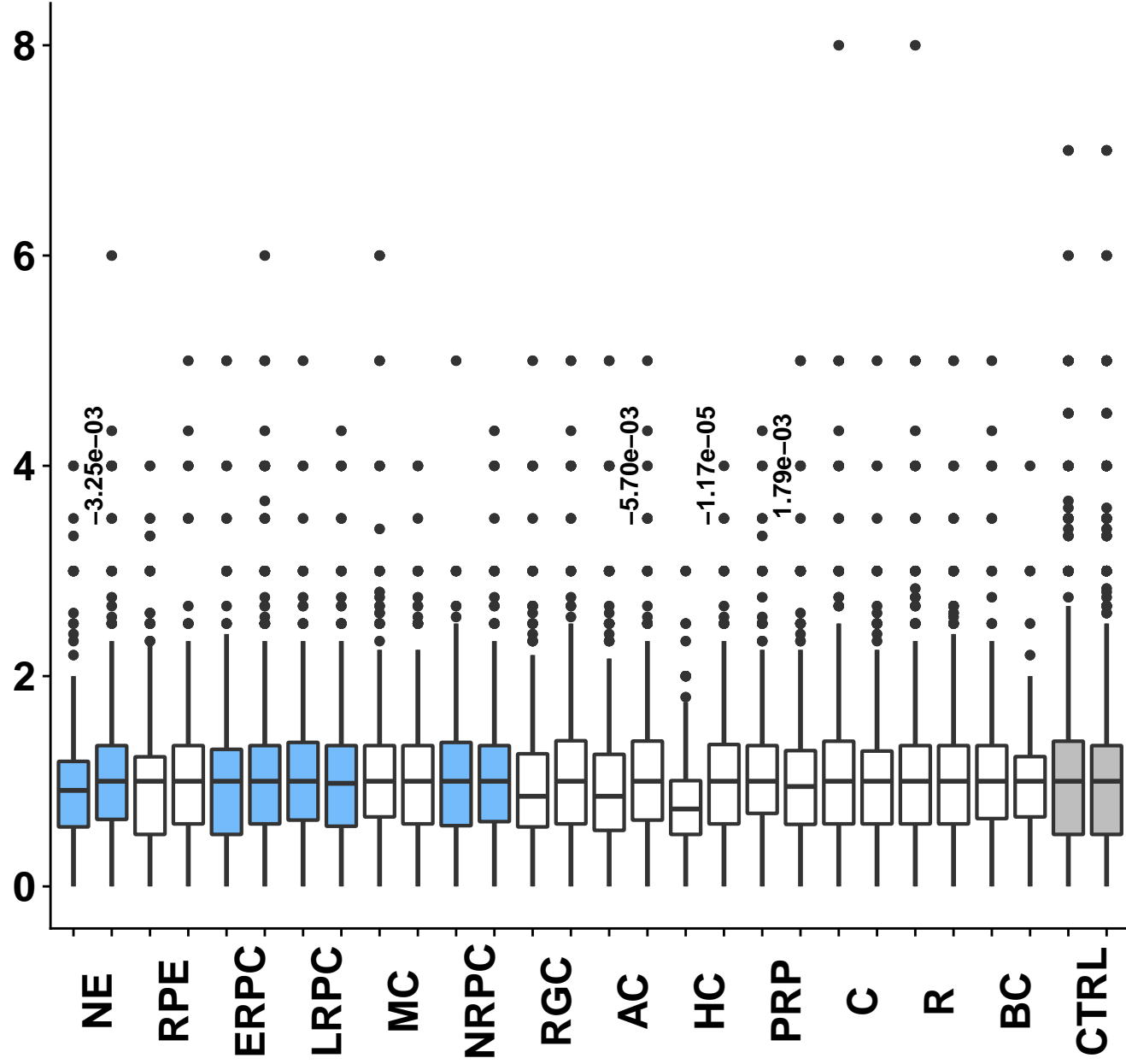
Tcf3_1_mean



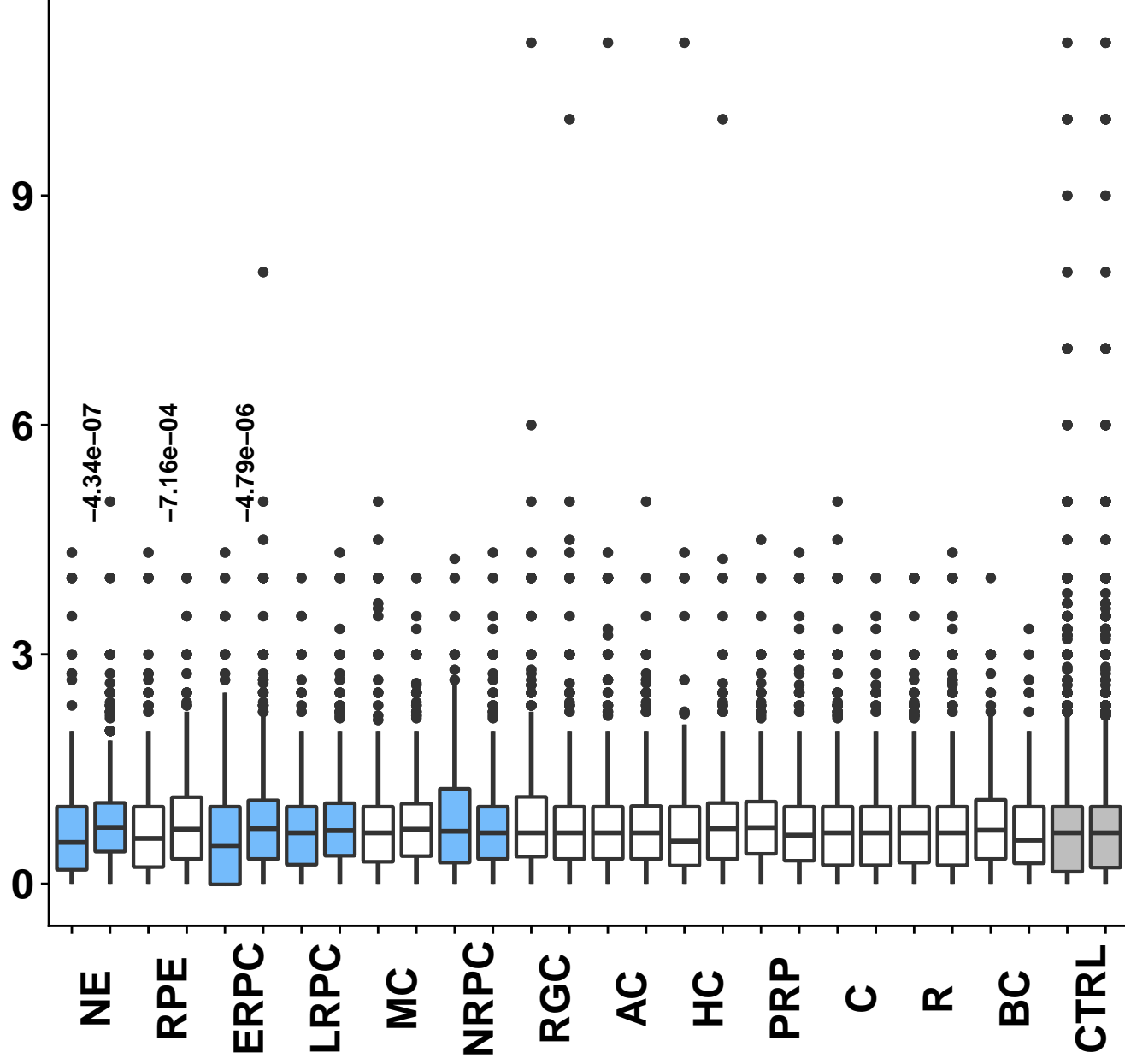
Tcf3_2_mean



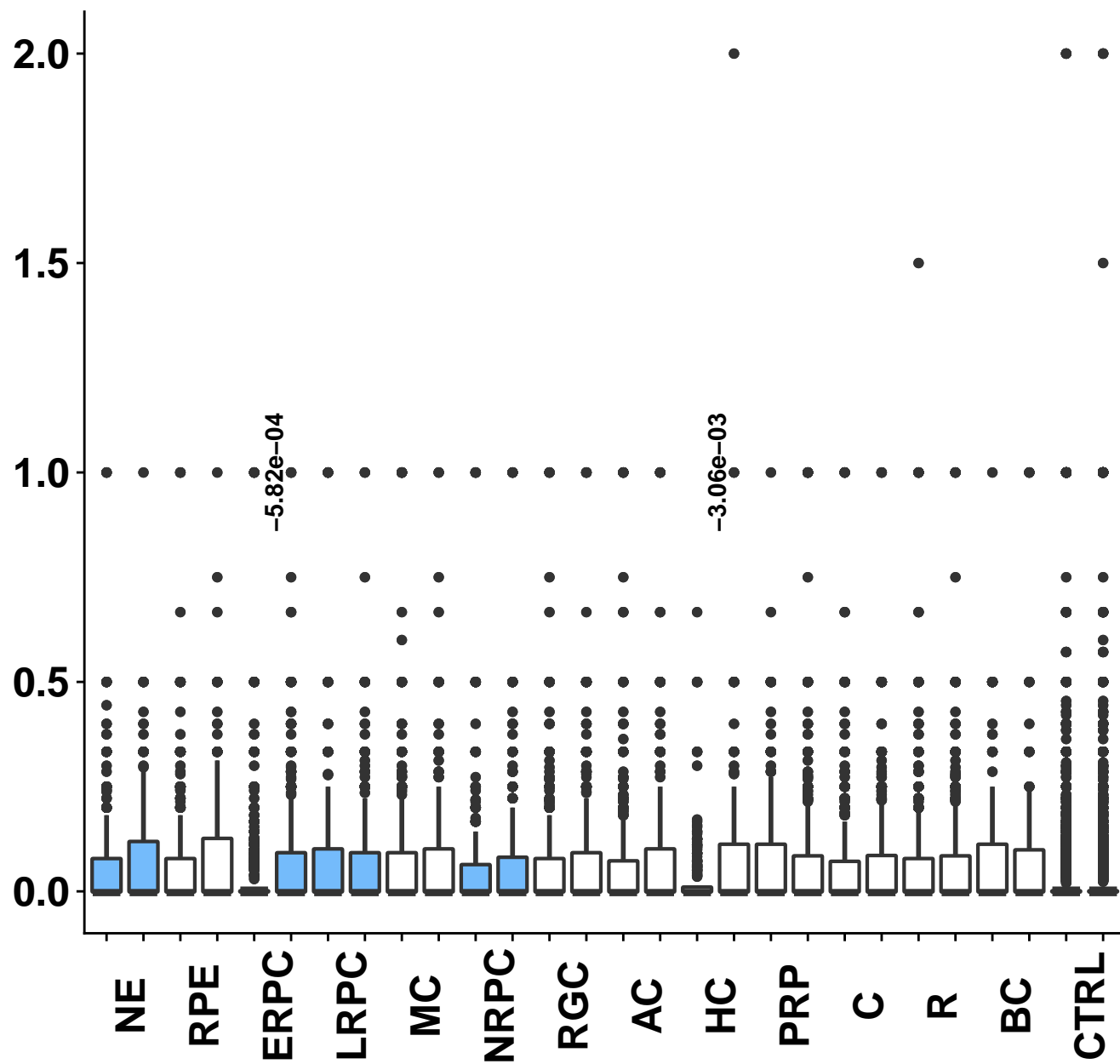
Tcf3_3_mean



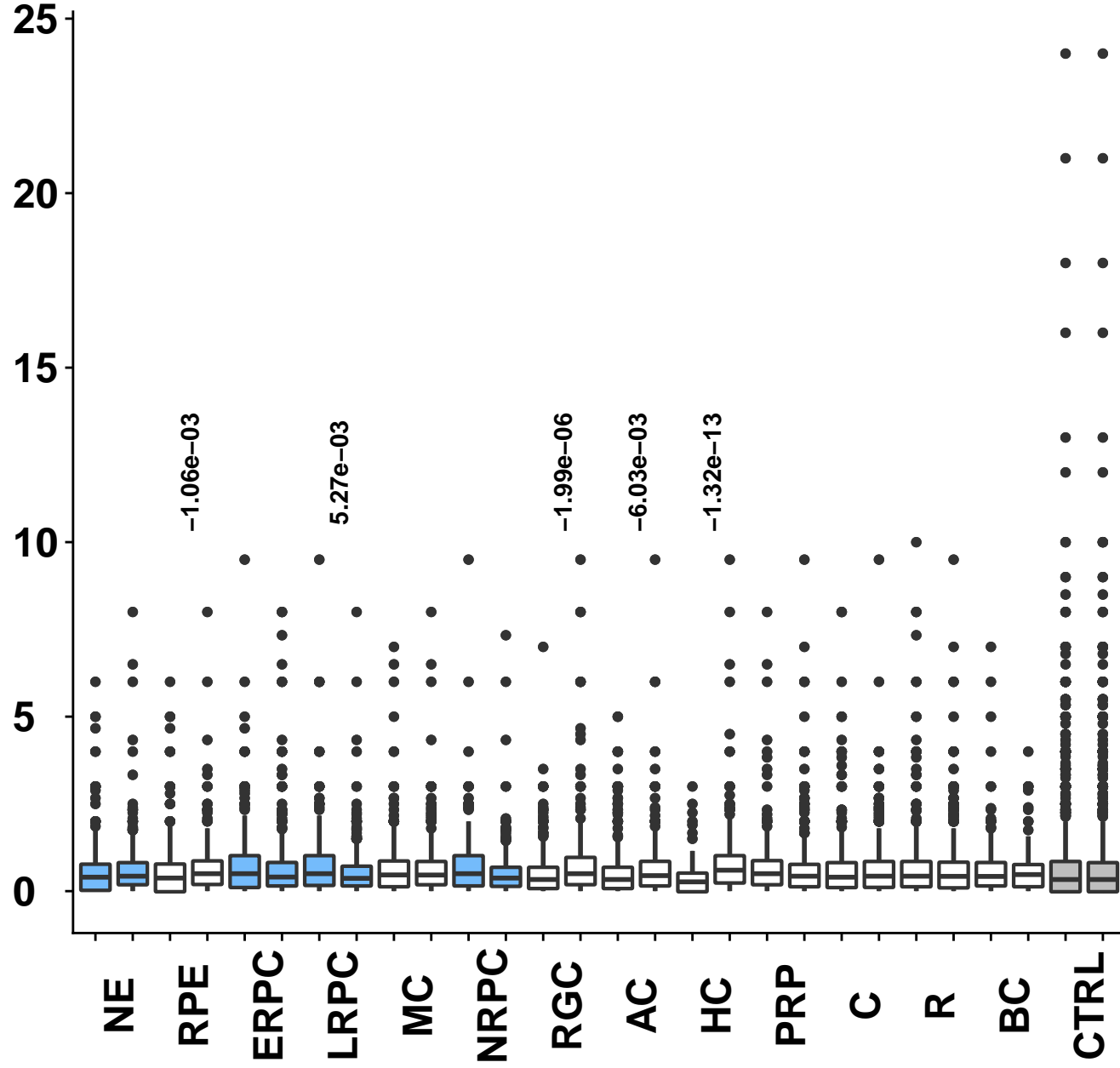
Tcf3_4_mean



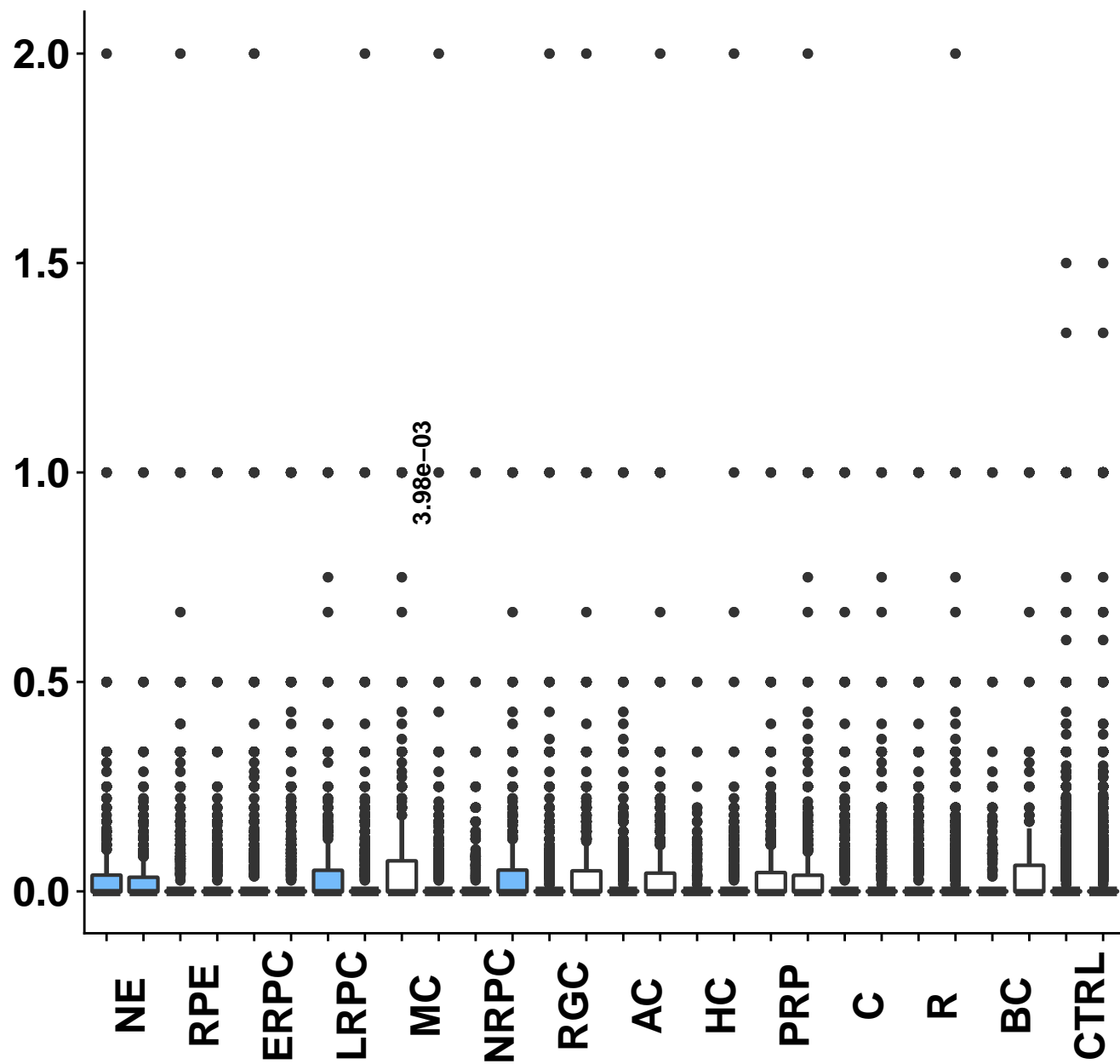
Tcf3_5_mean



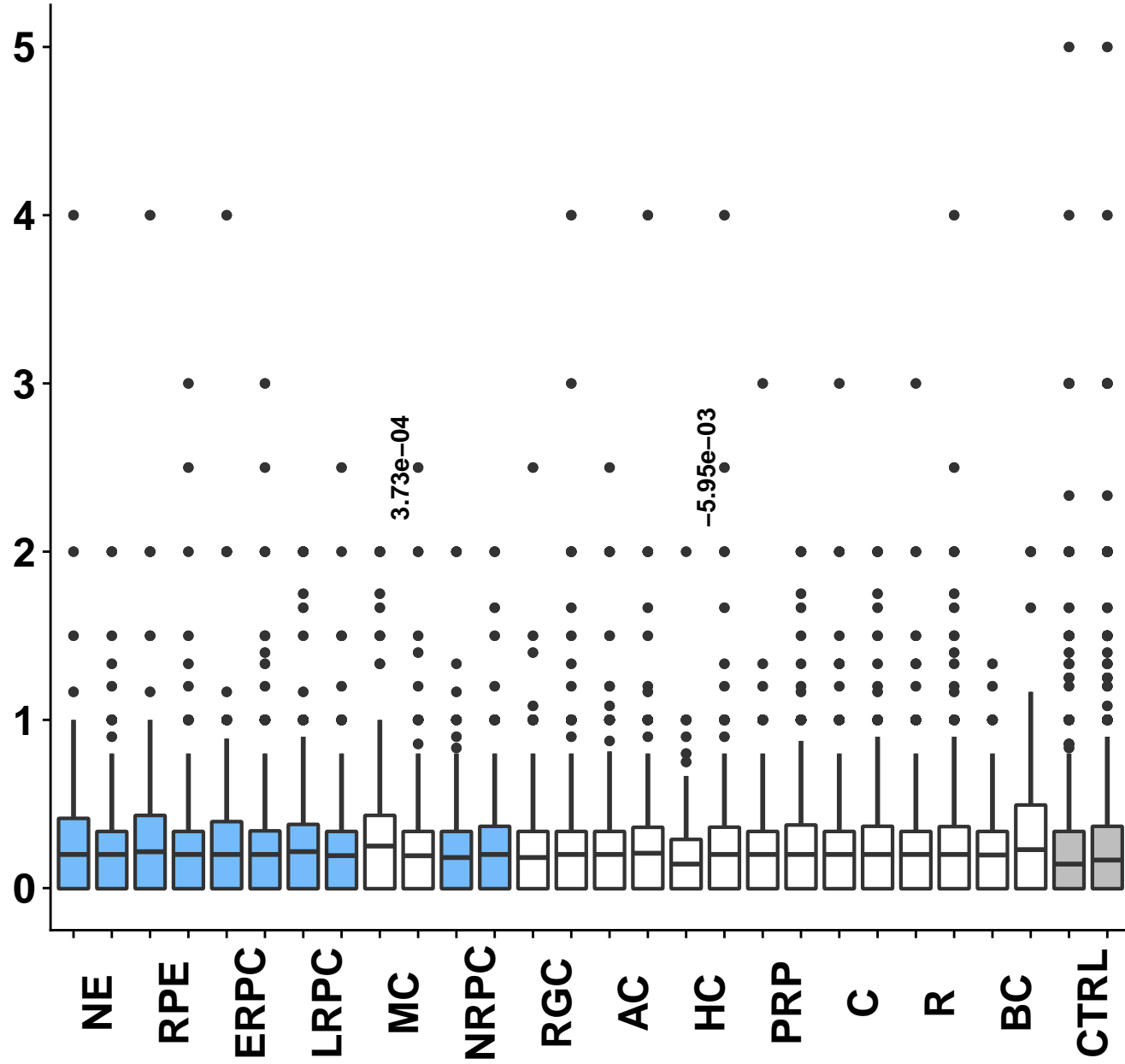
Tcf3_6_mean



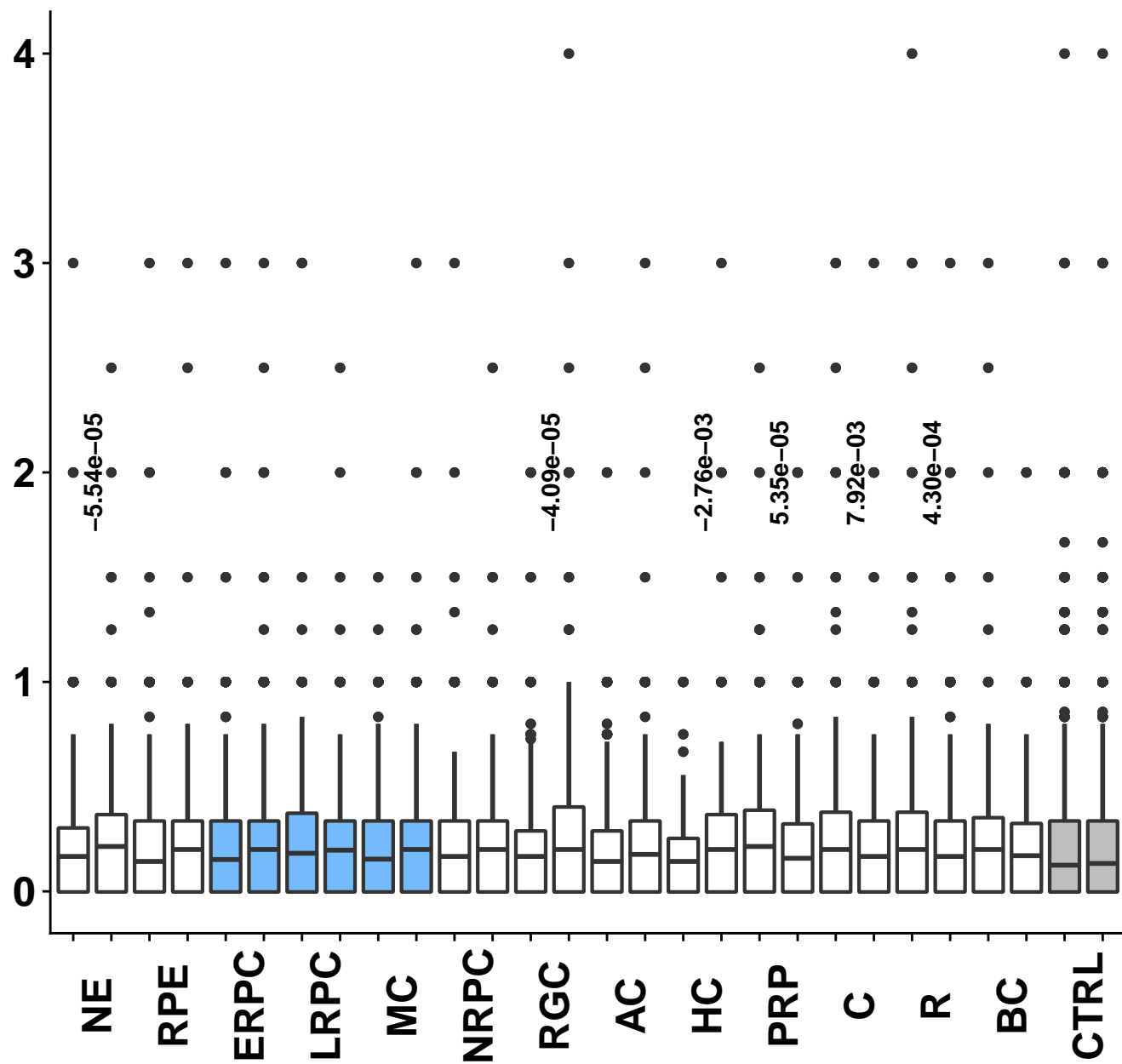
Tead2_1_mean



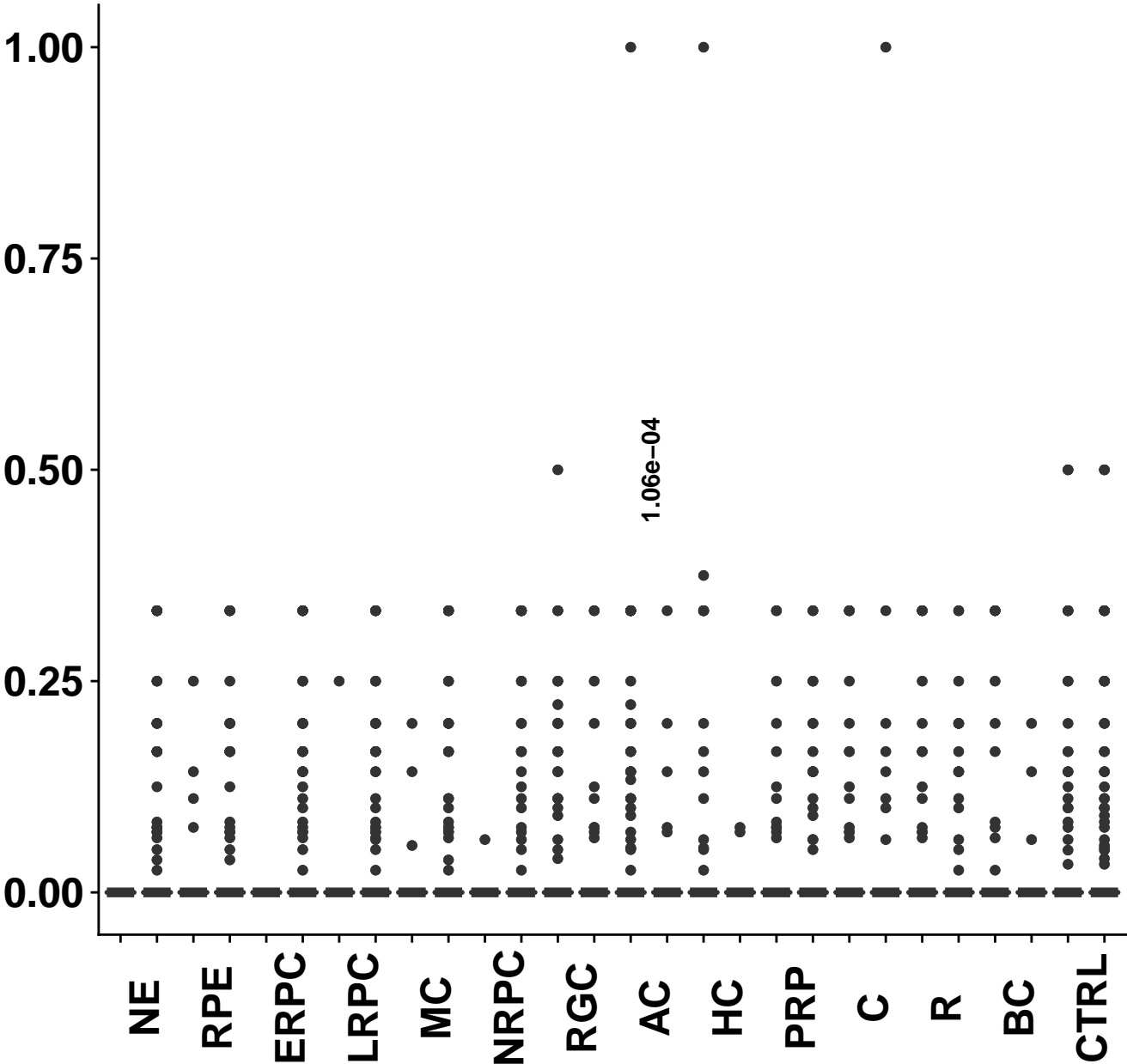
Tead2_2_mean



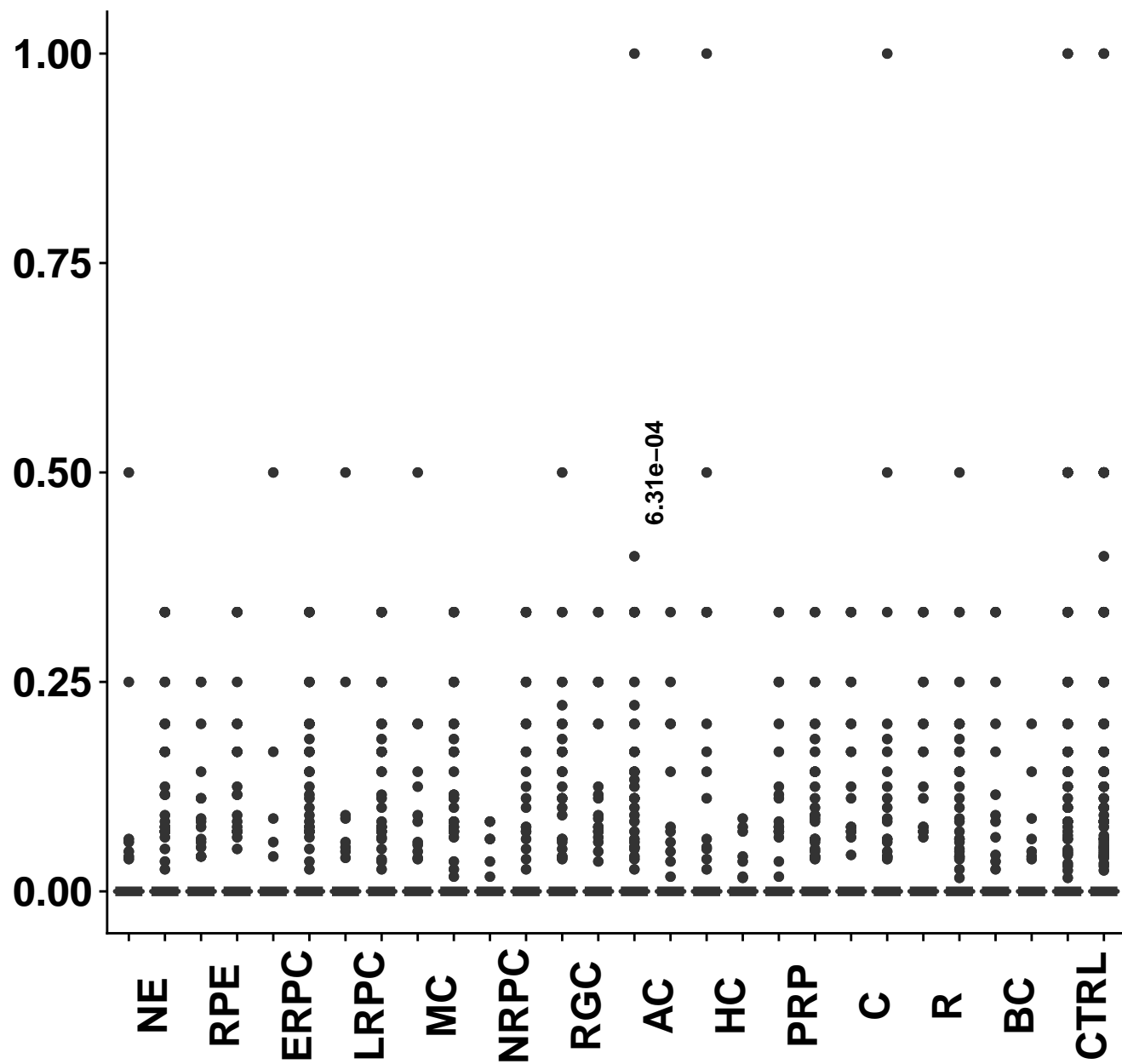
Nr2e1_1_mean



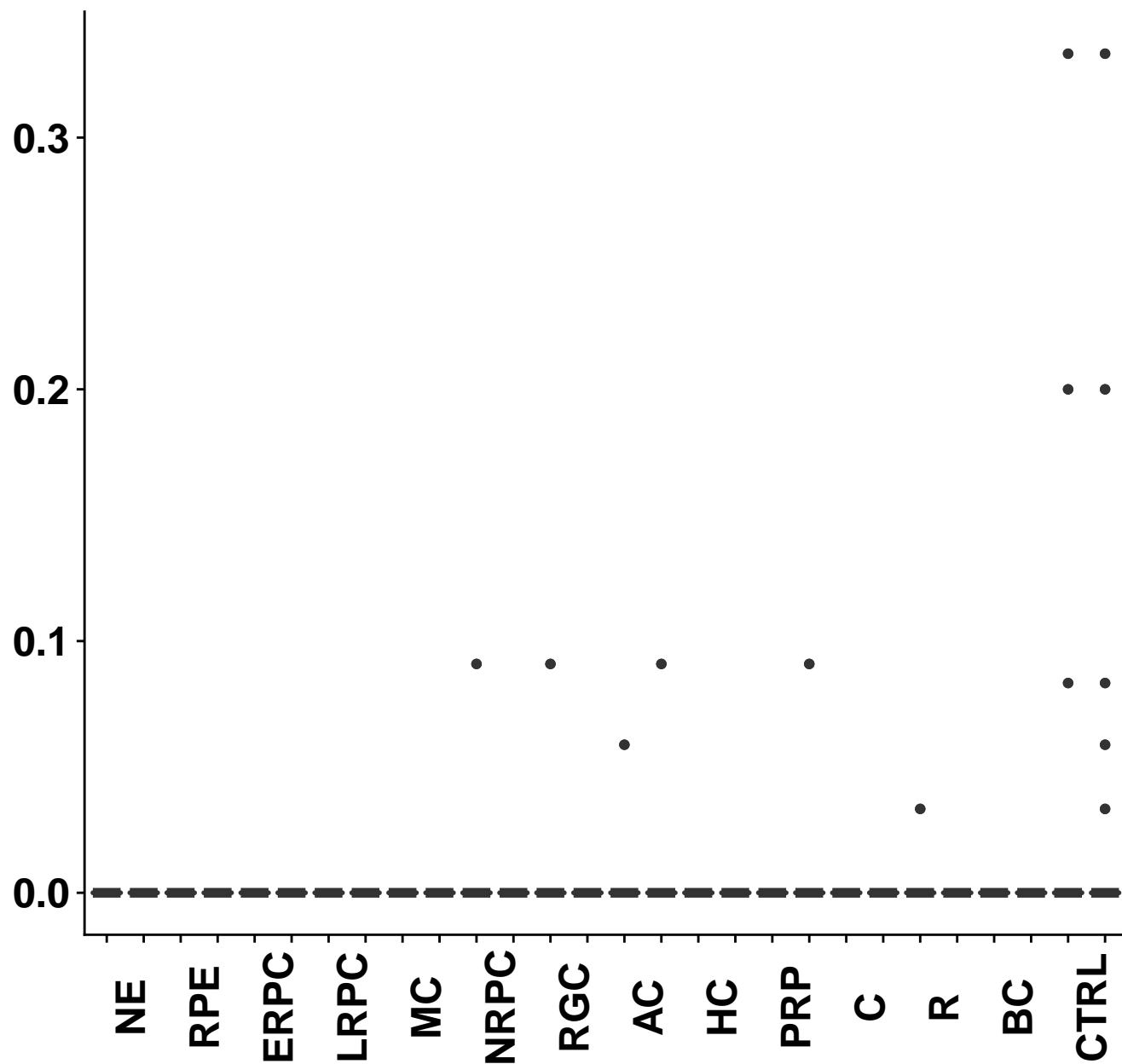
Rest_1_mean



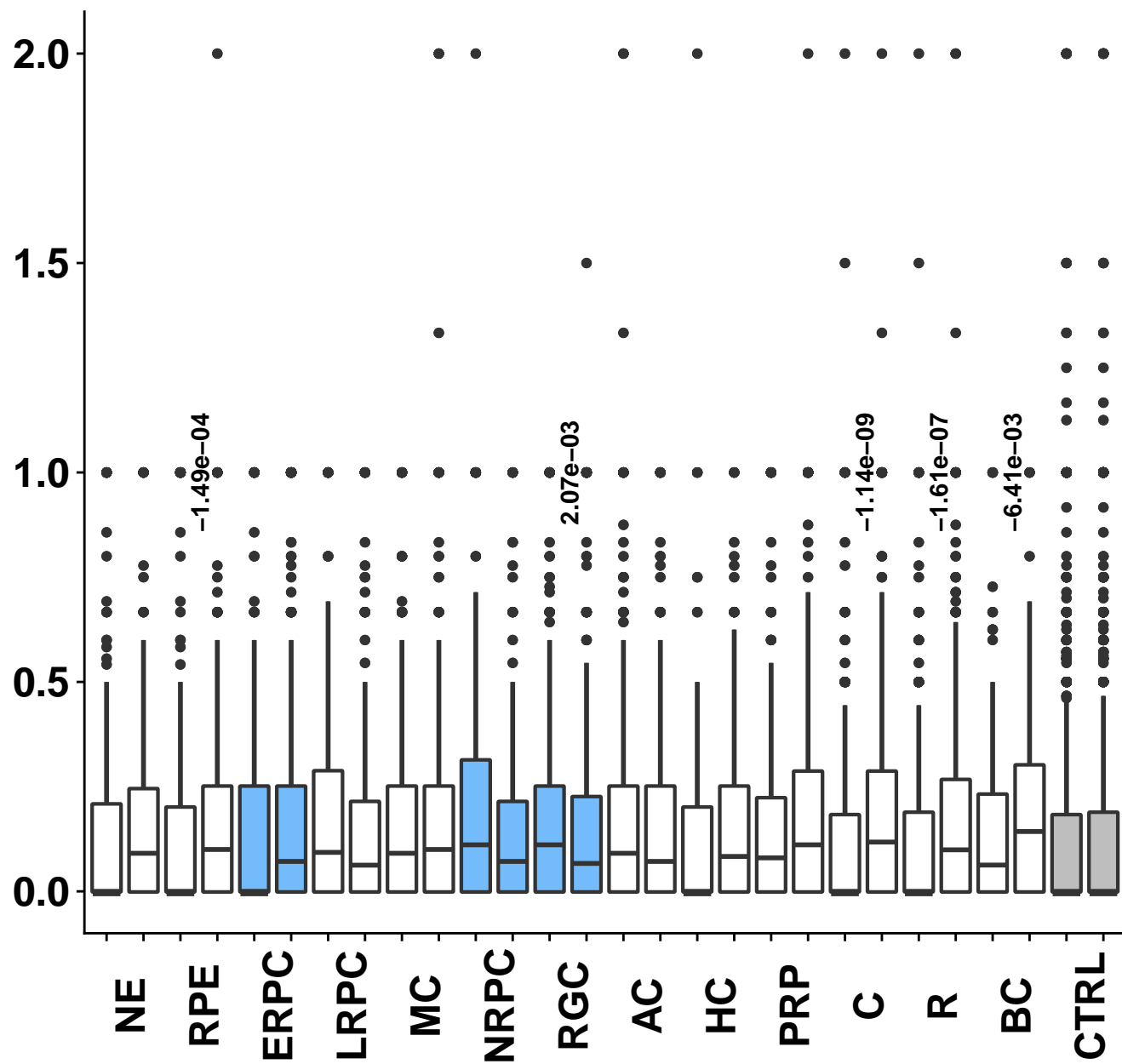
Rest_2_mean



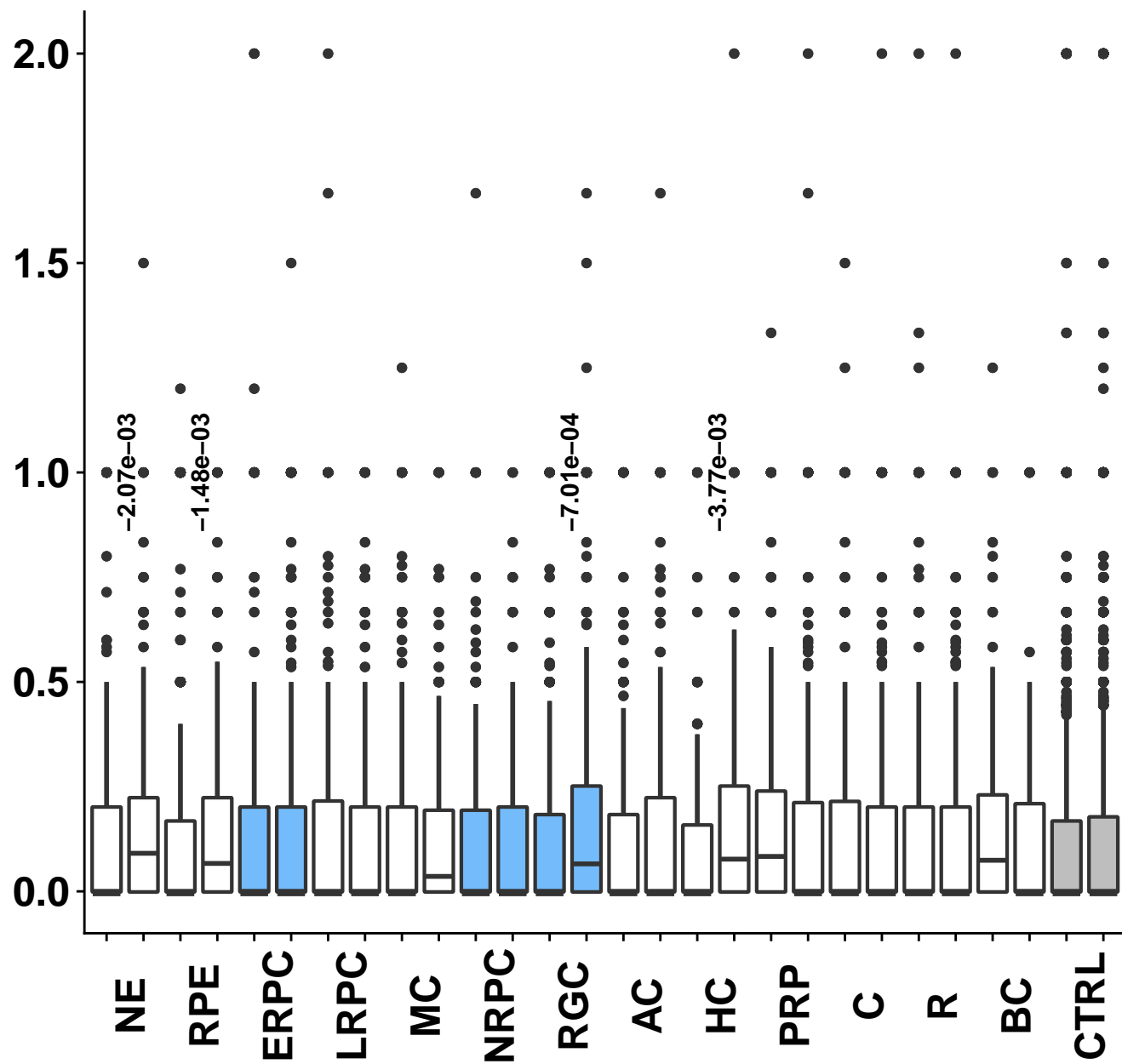
Sox11_1_mean



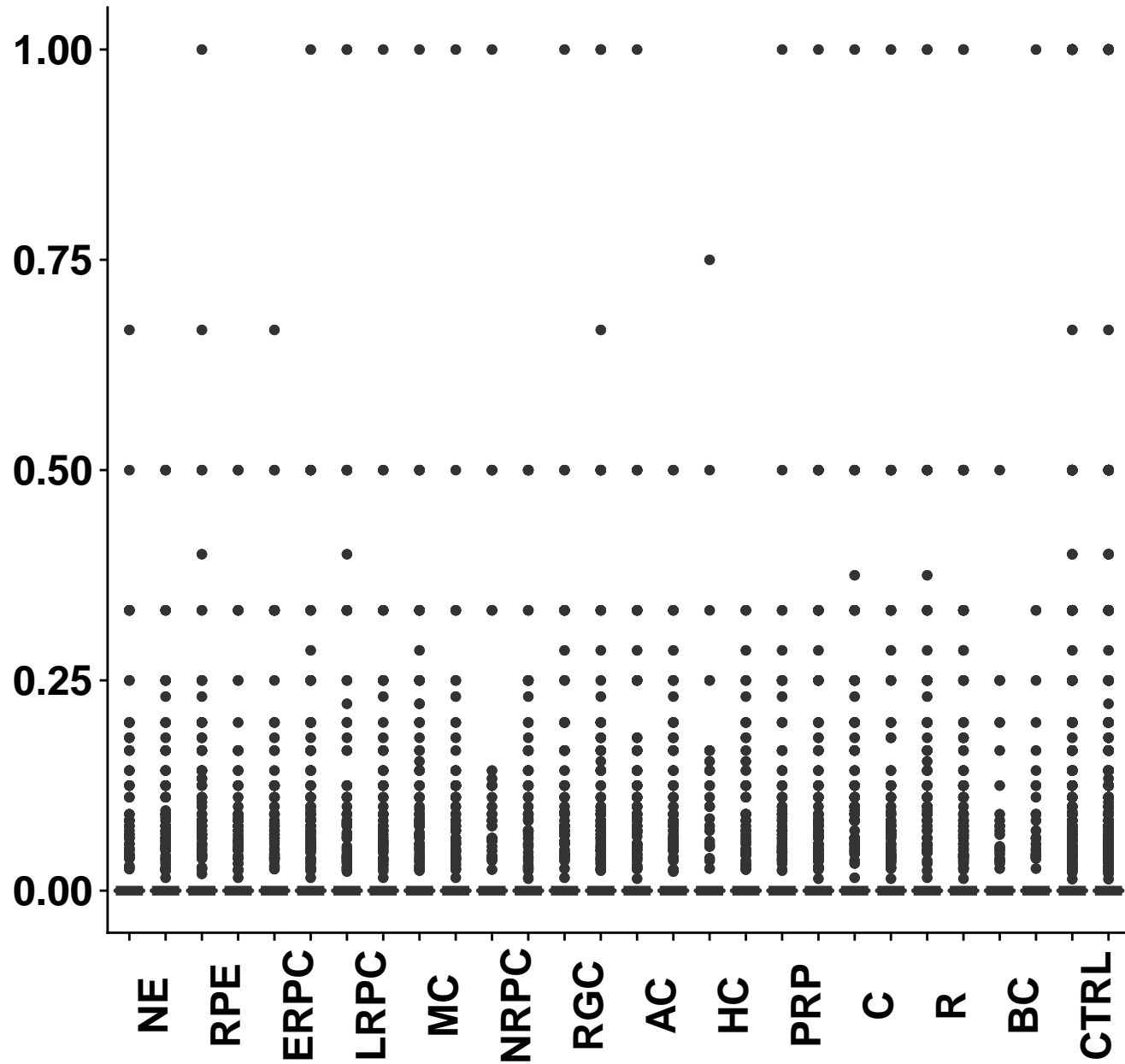
Sox11_2_mean



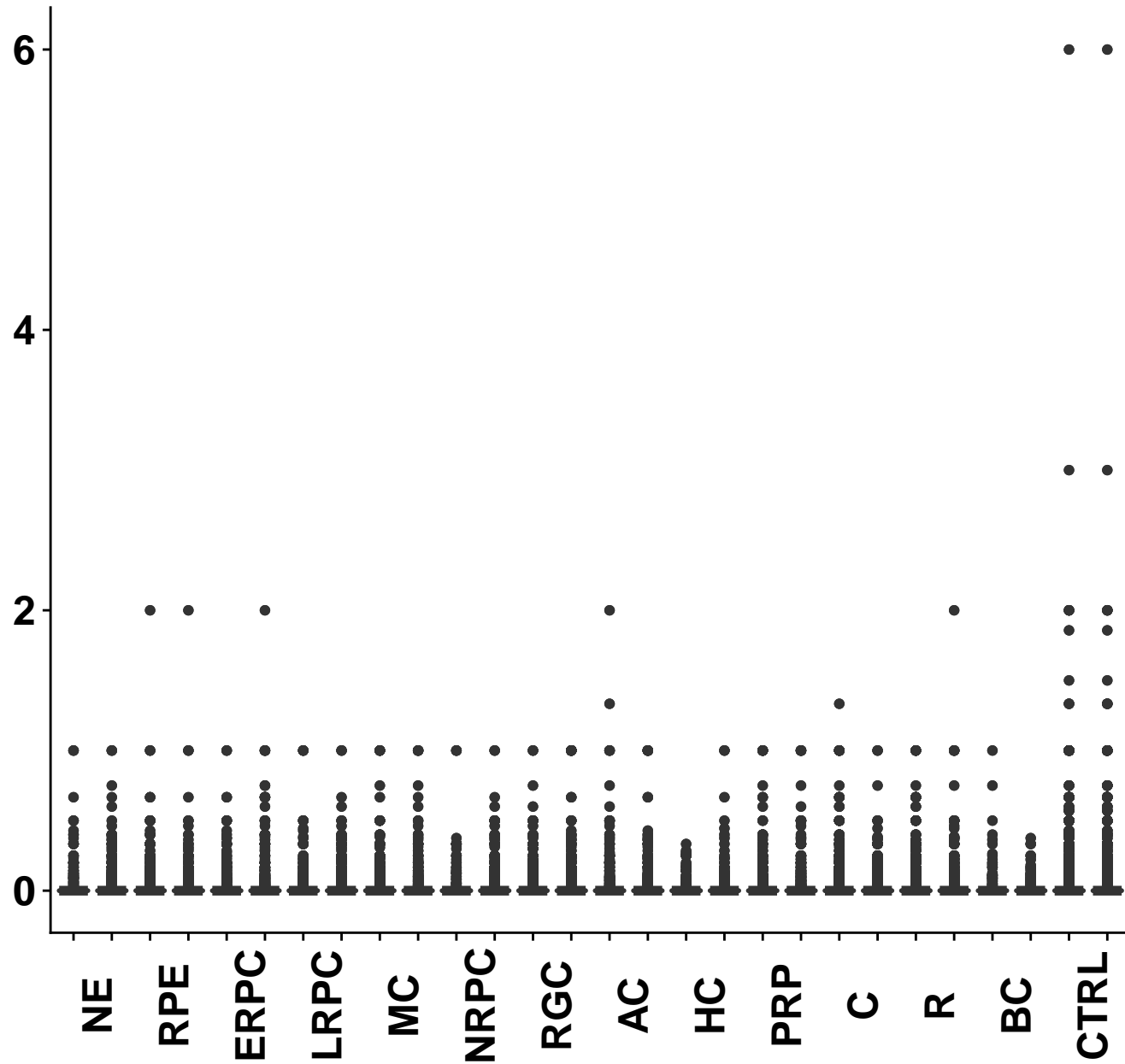
Sox11_3_mean



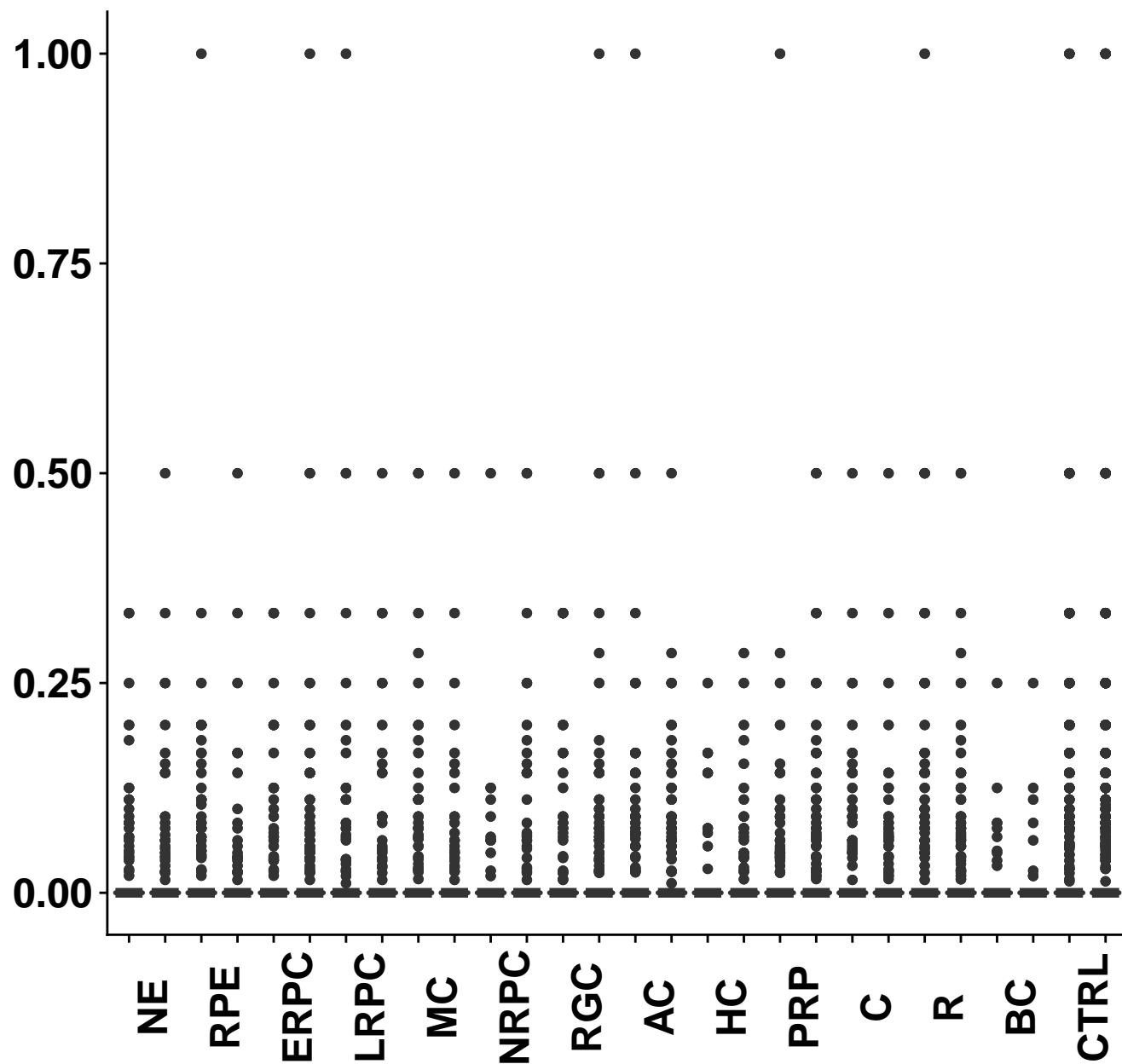
Six6_1_mean



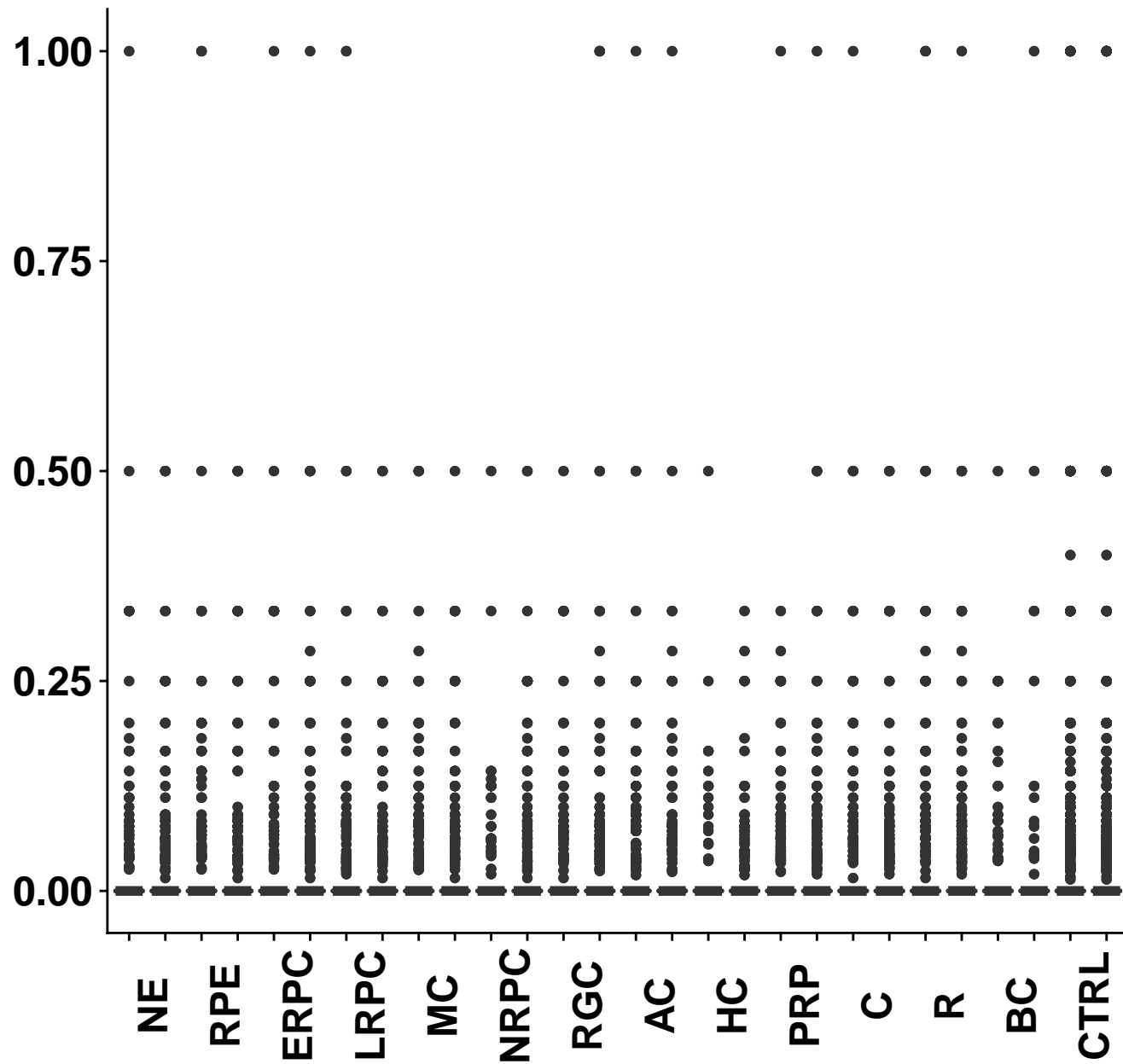
Six6_2_mean



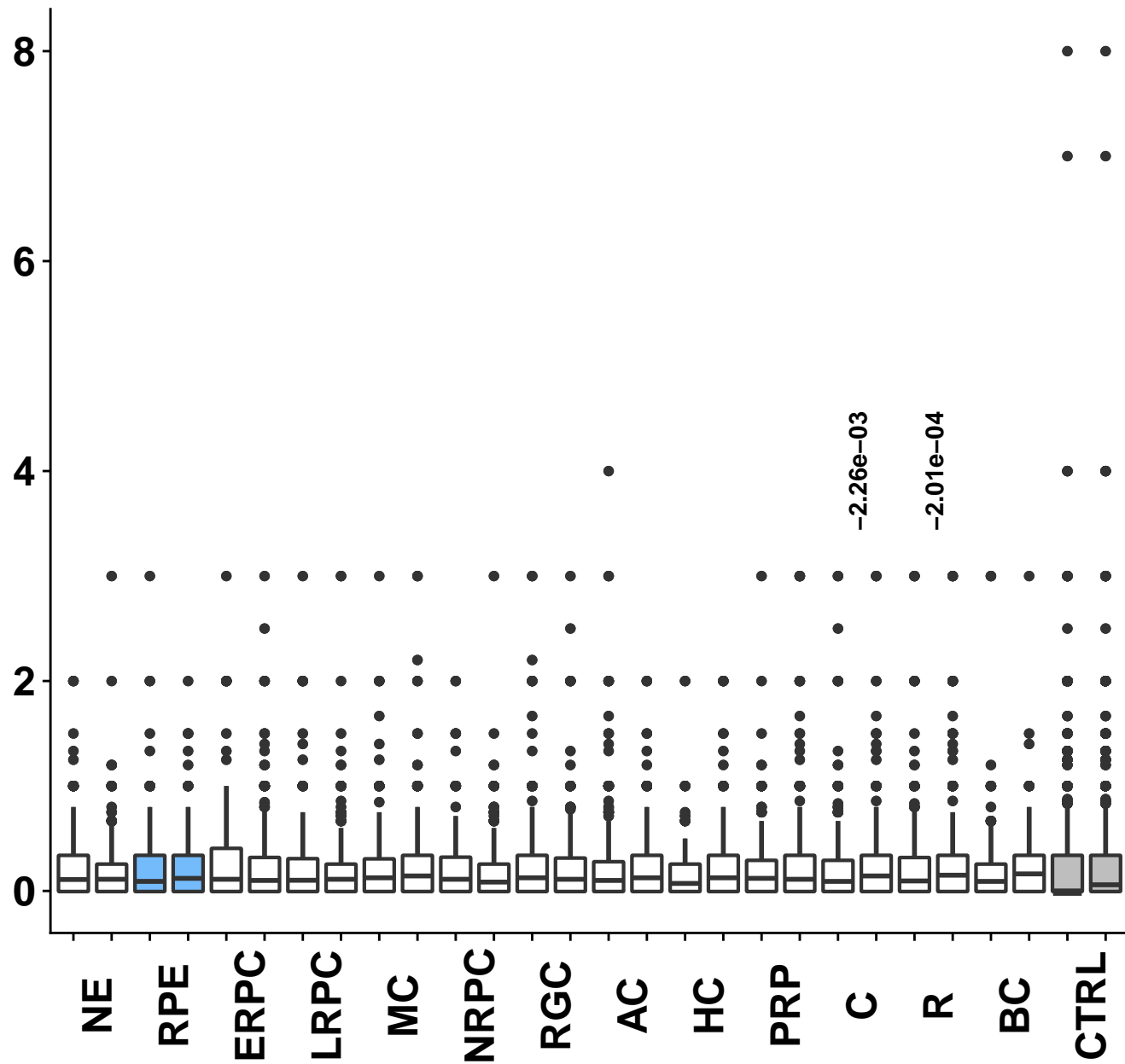
Six6_3_mean



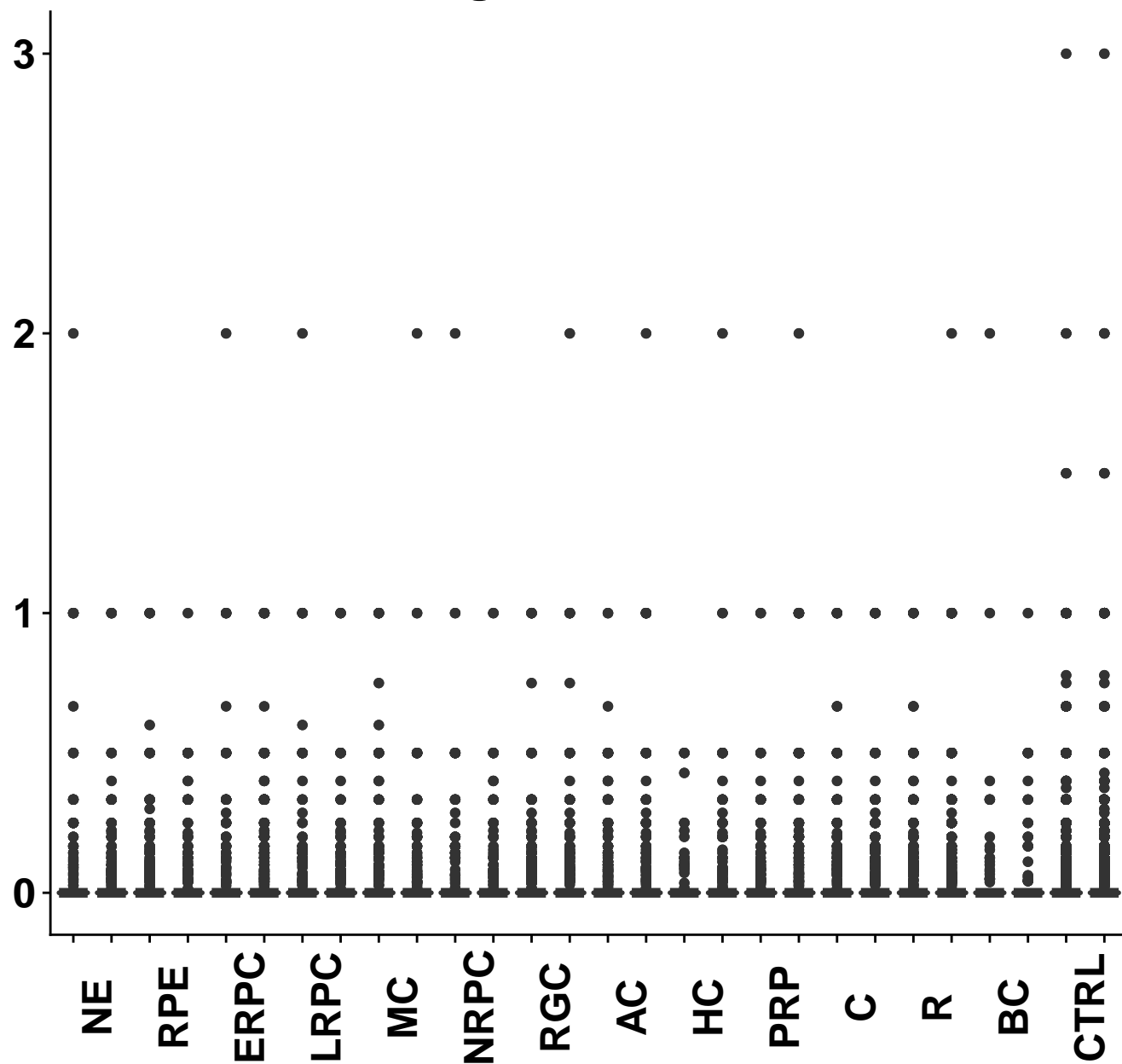
Six6_4_mean



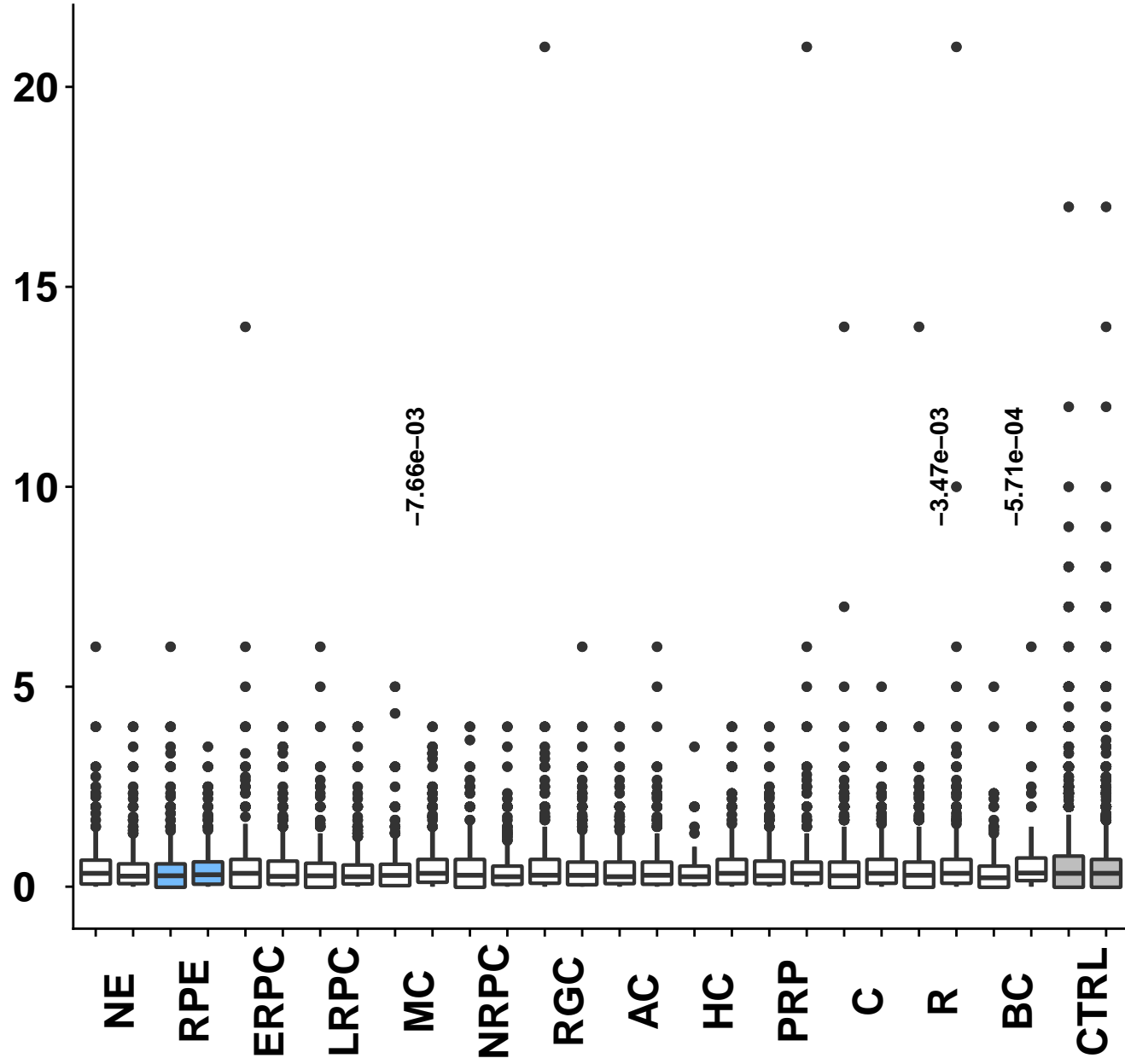
Egr1_1_mean



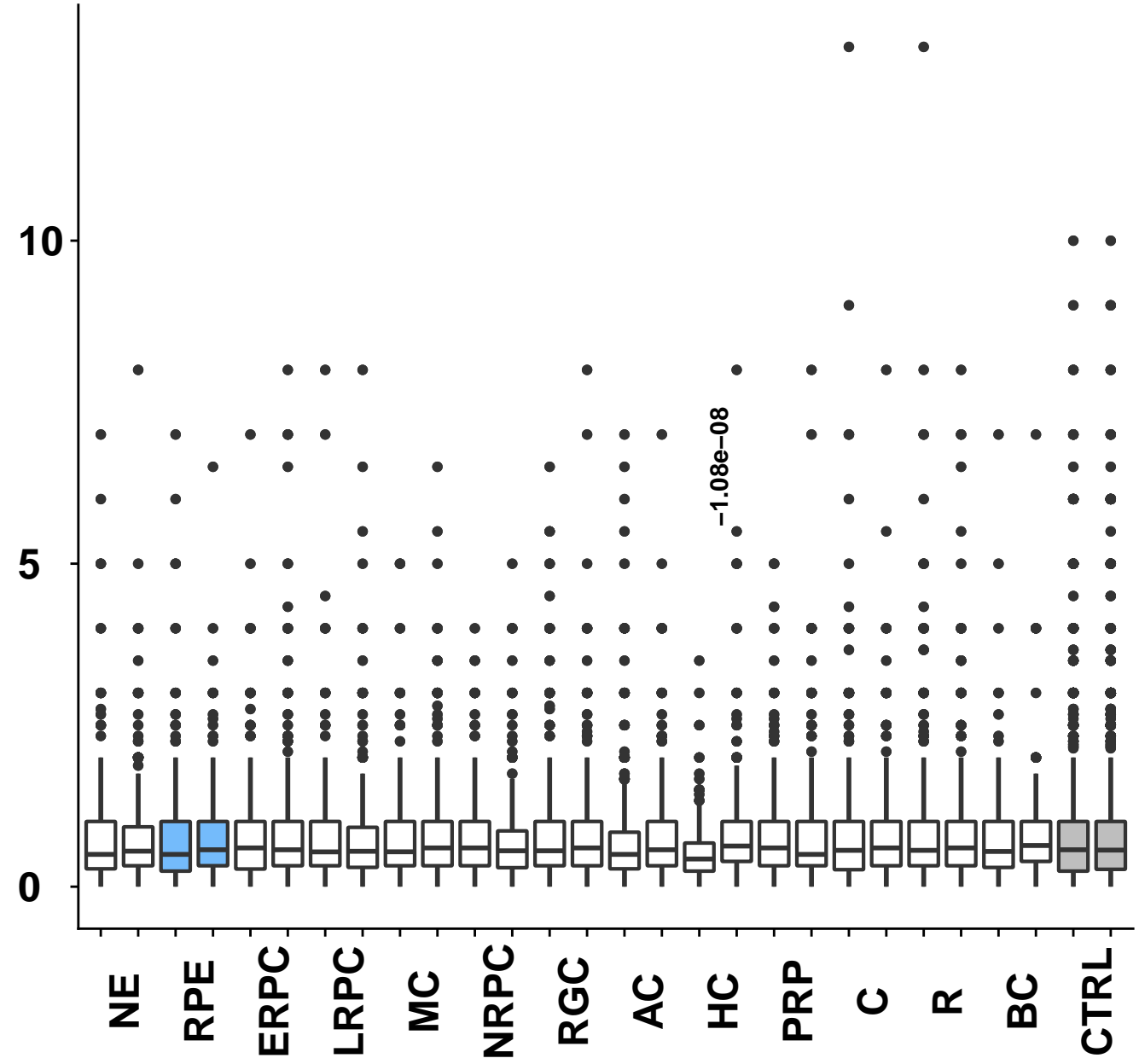
Egr1_2_mean



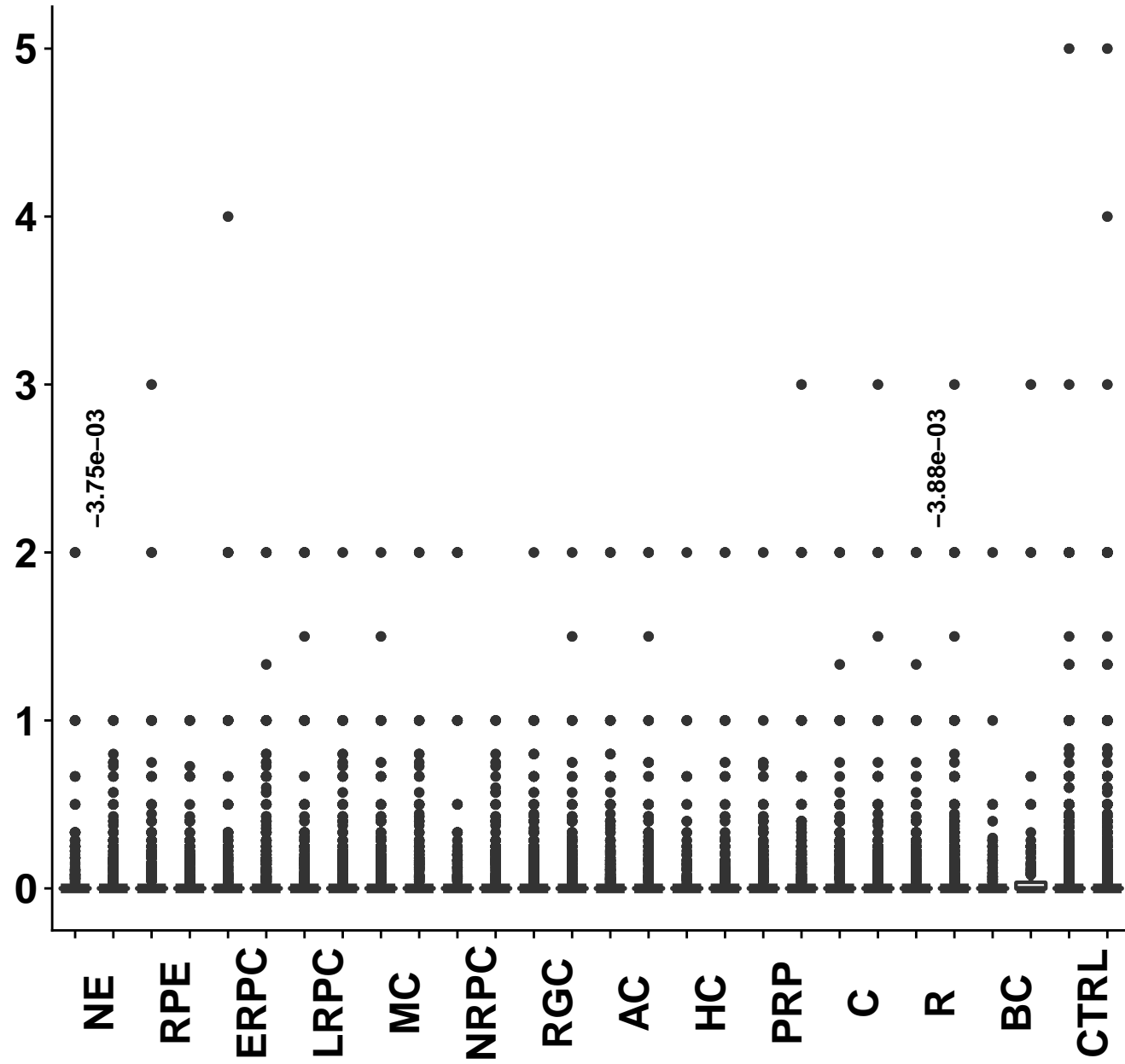
Egr1_3_mean



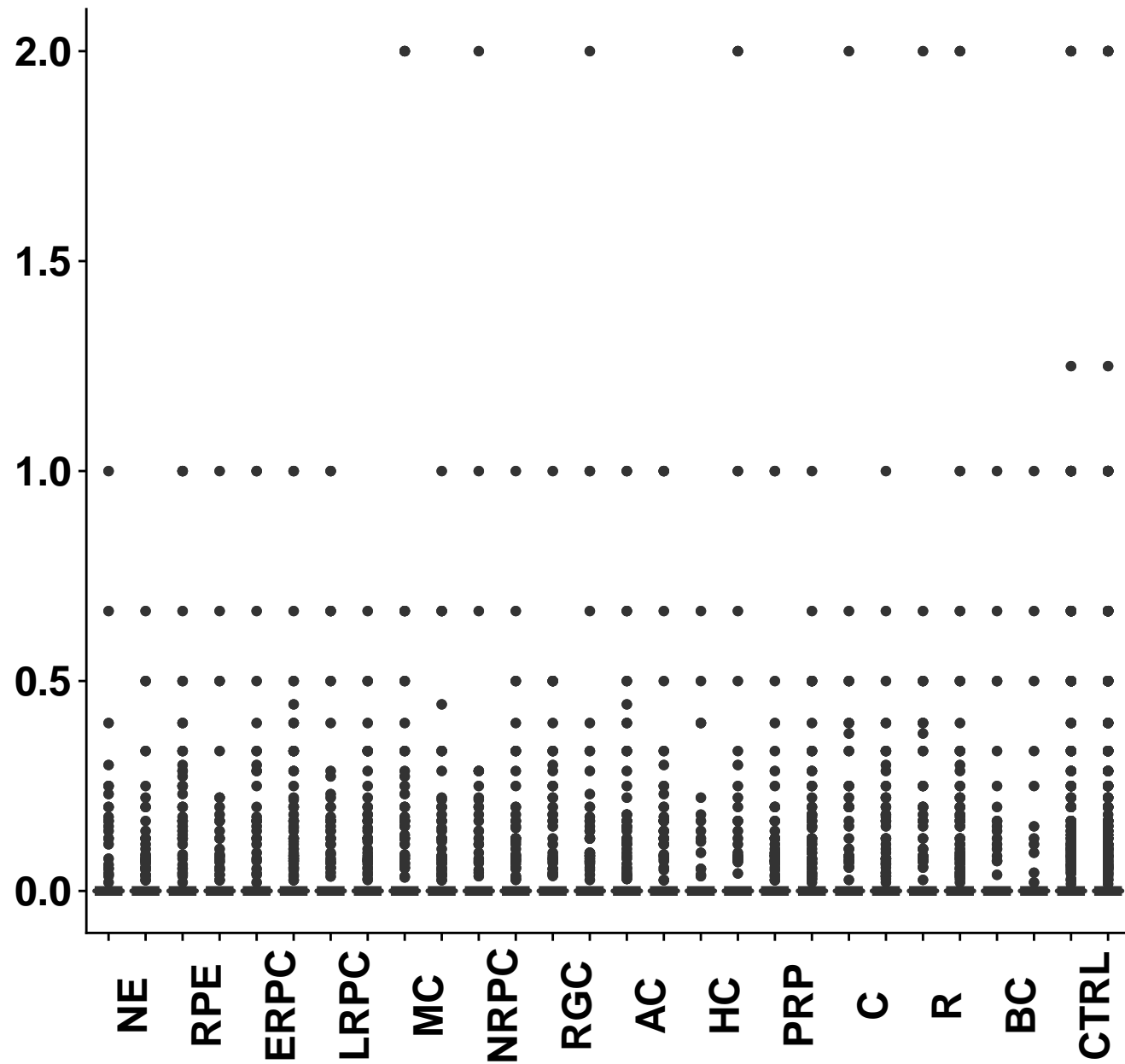
Egr1_4_mean



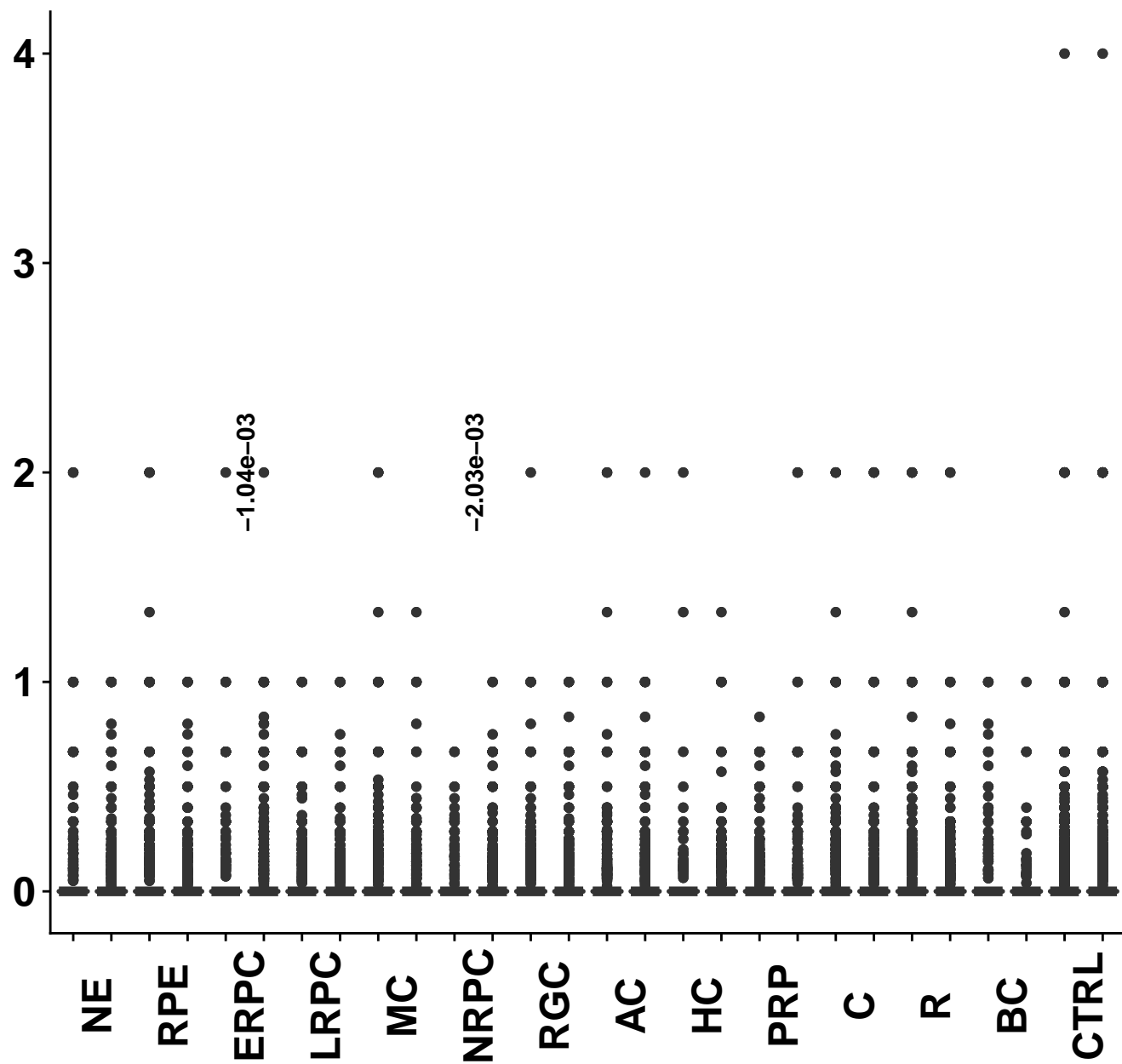
Creb5_1_mean



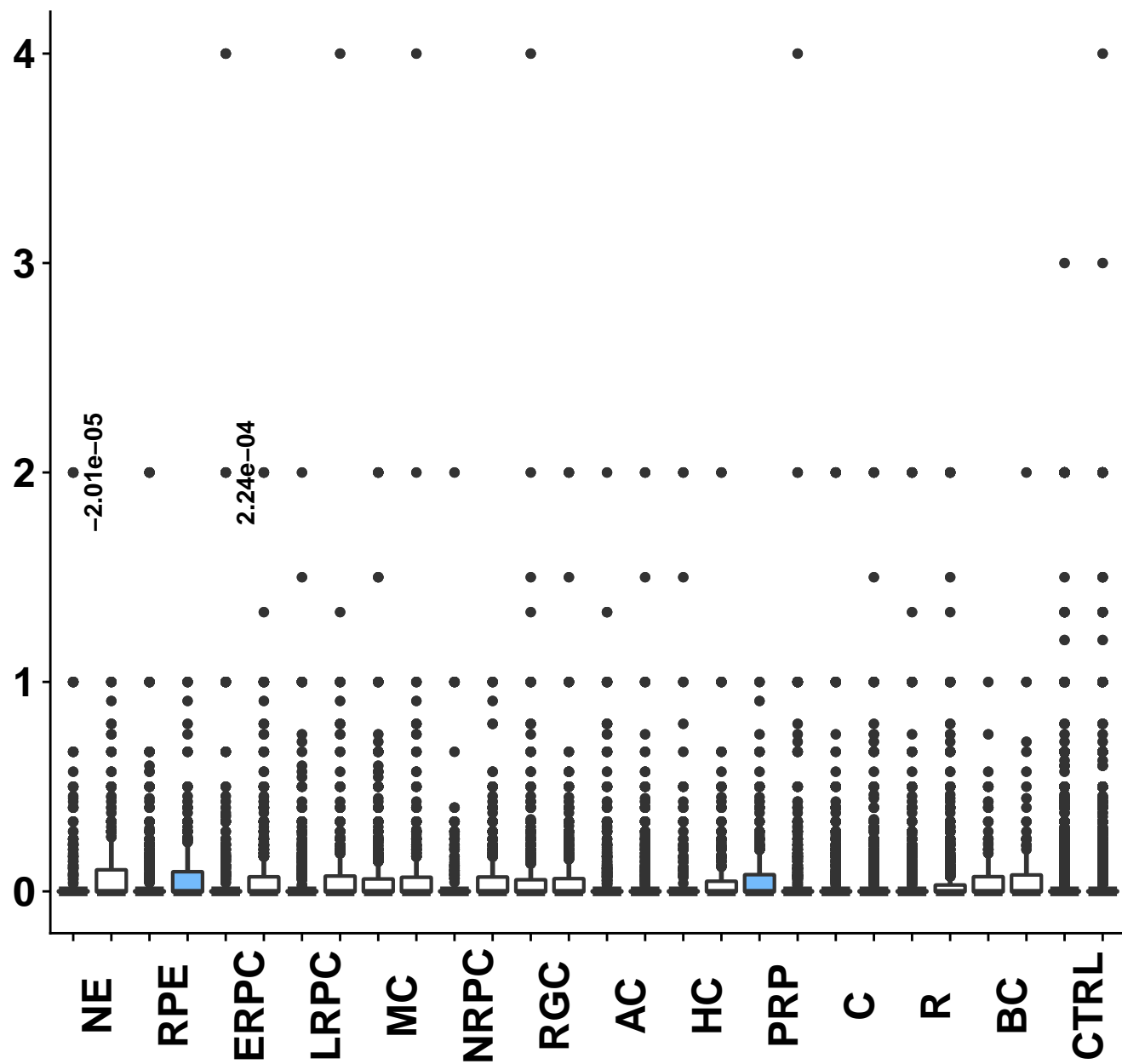
Hes5_1_mean



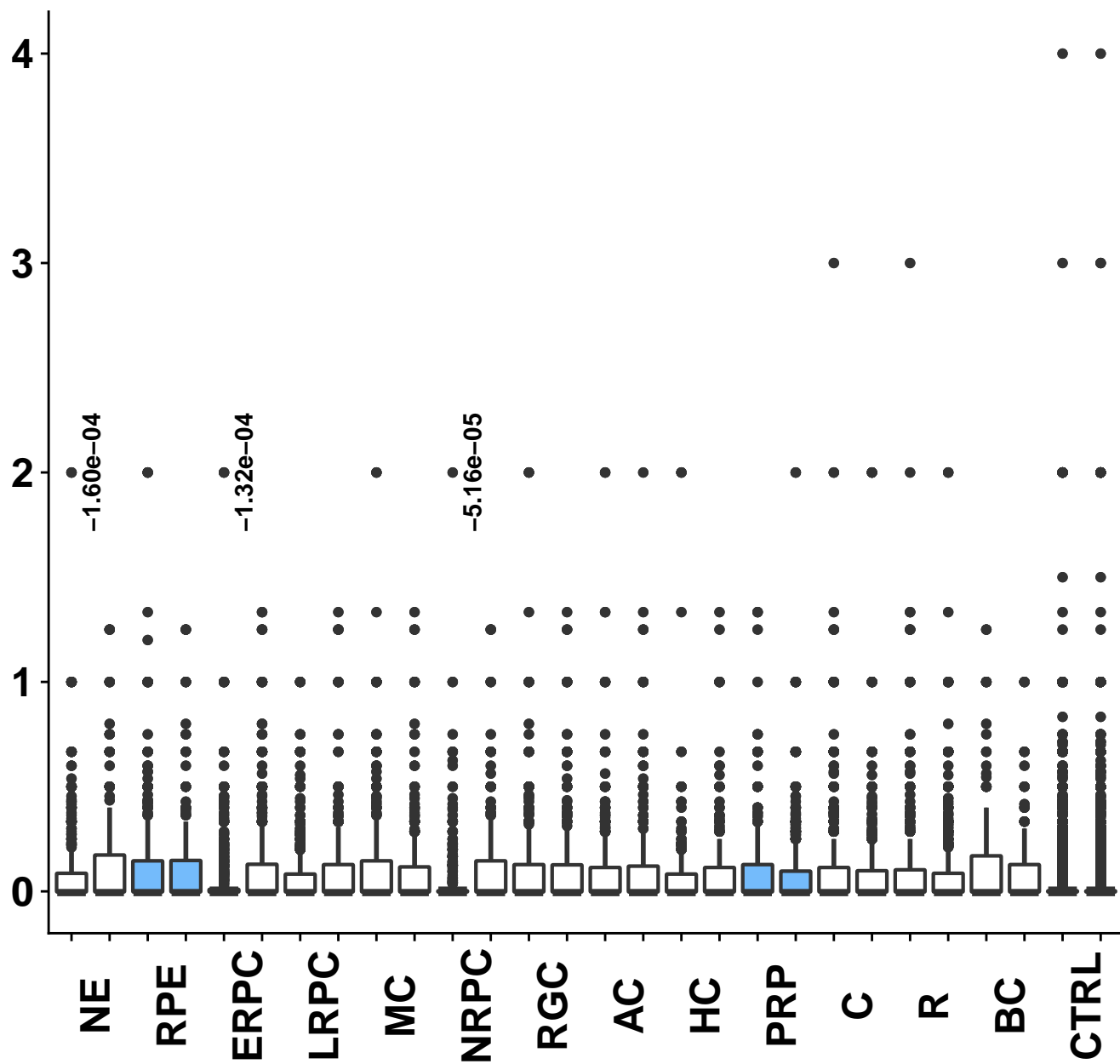
Jun_1_mean



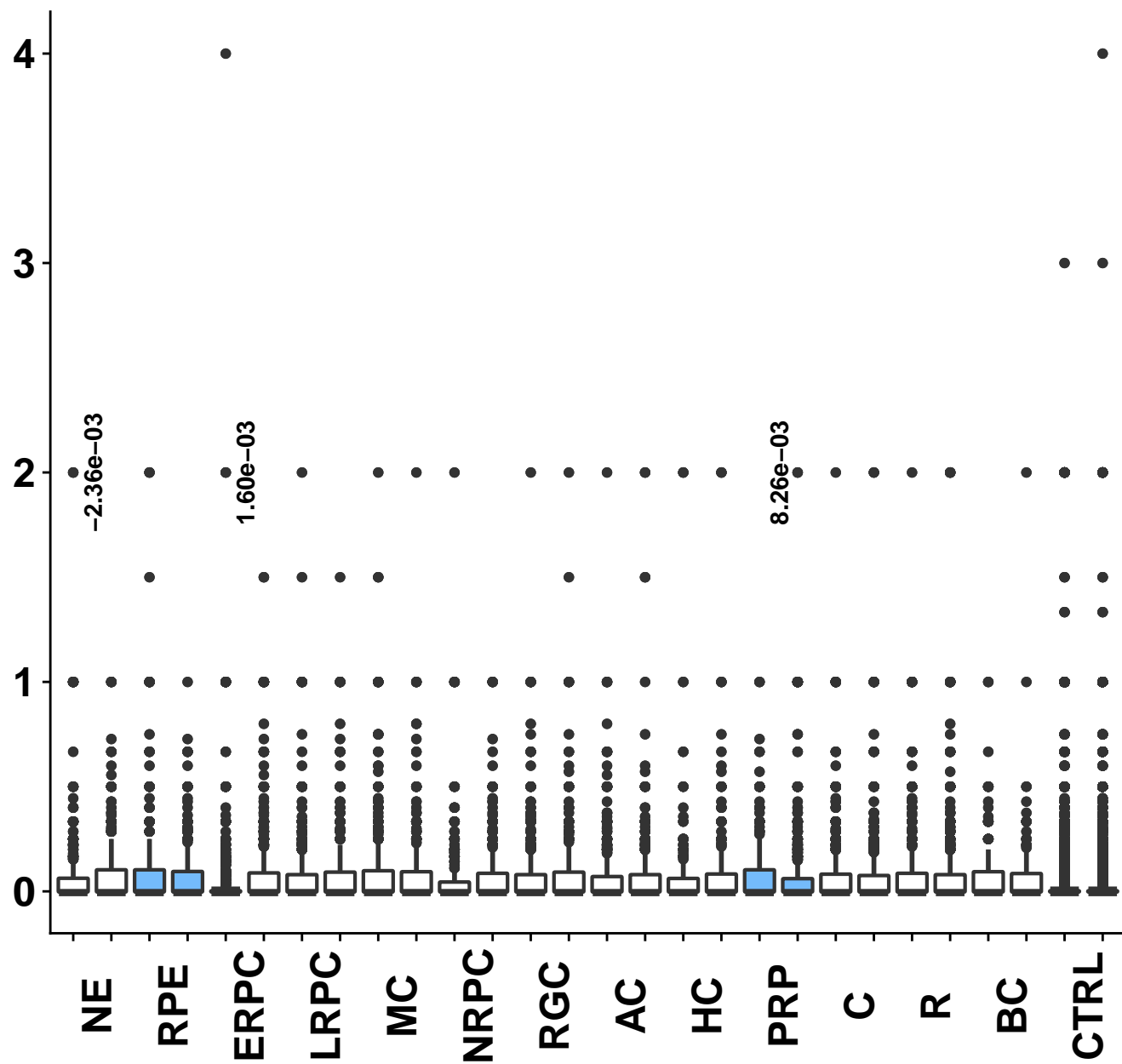
Jun_3_mean



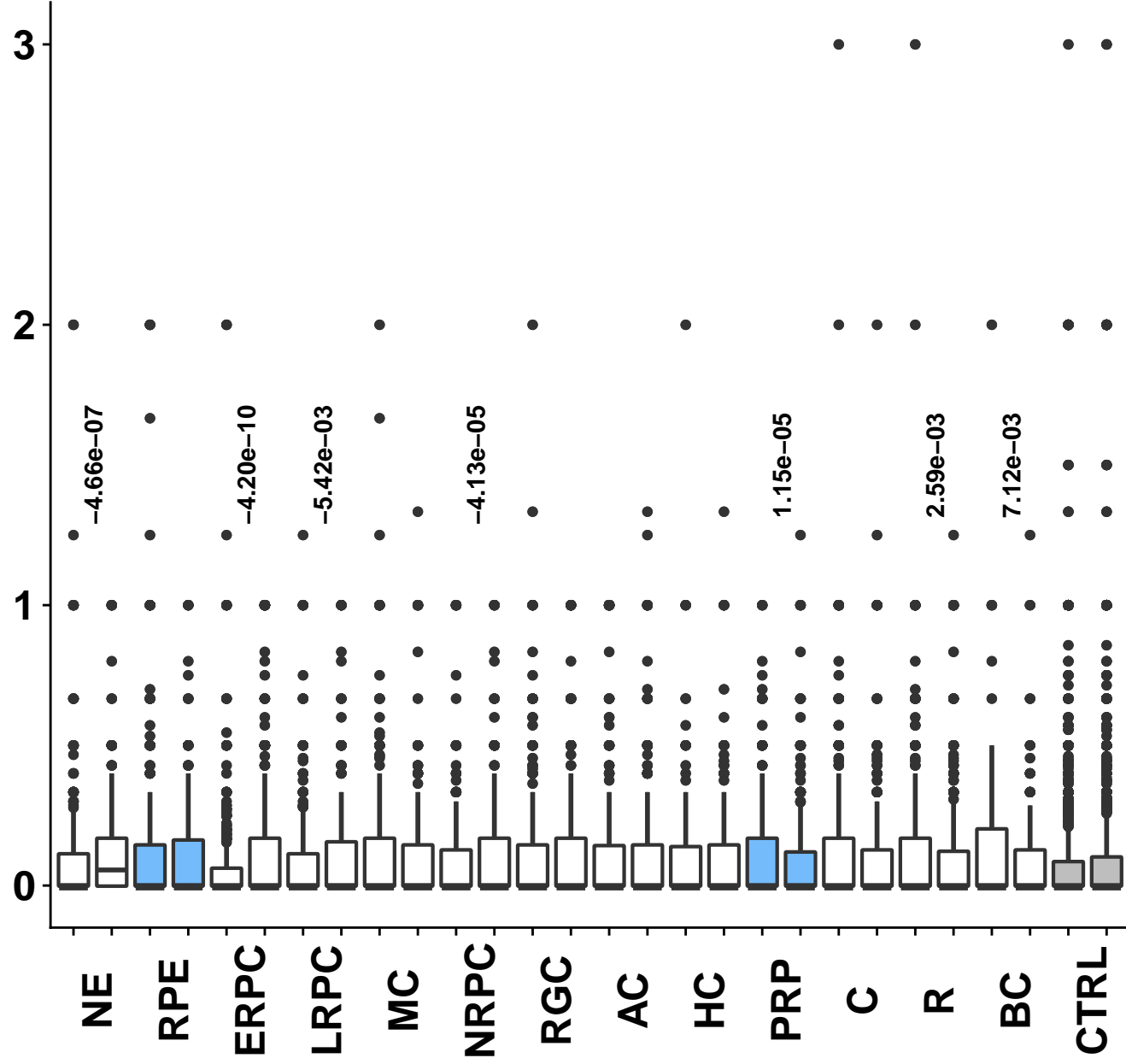
Jun_8_mean



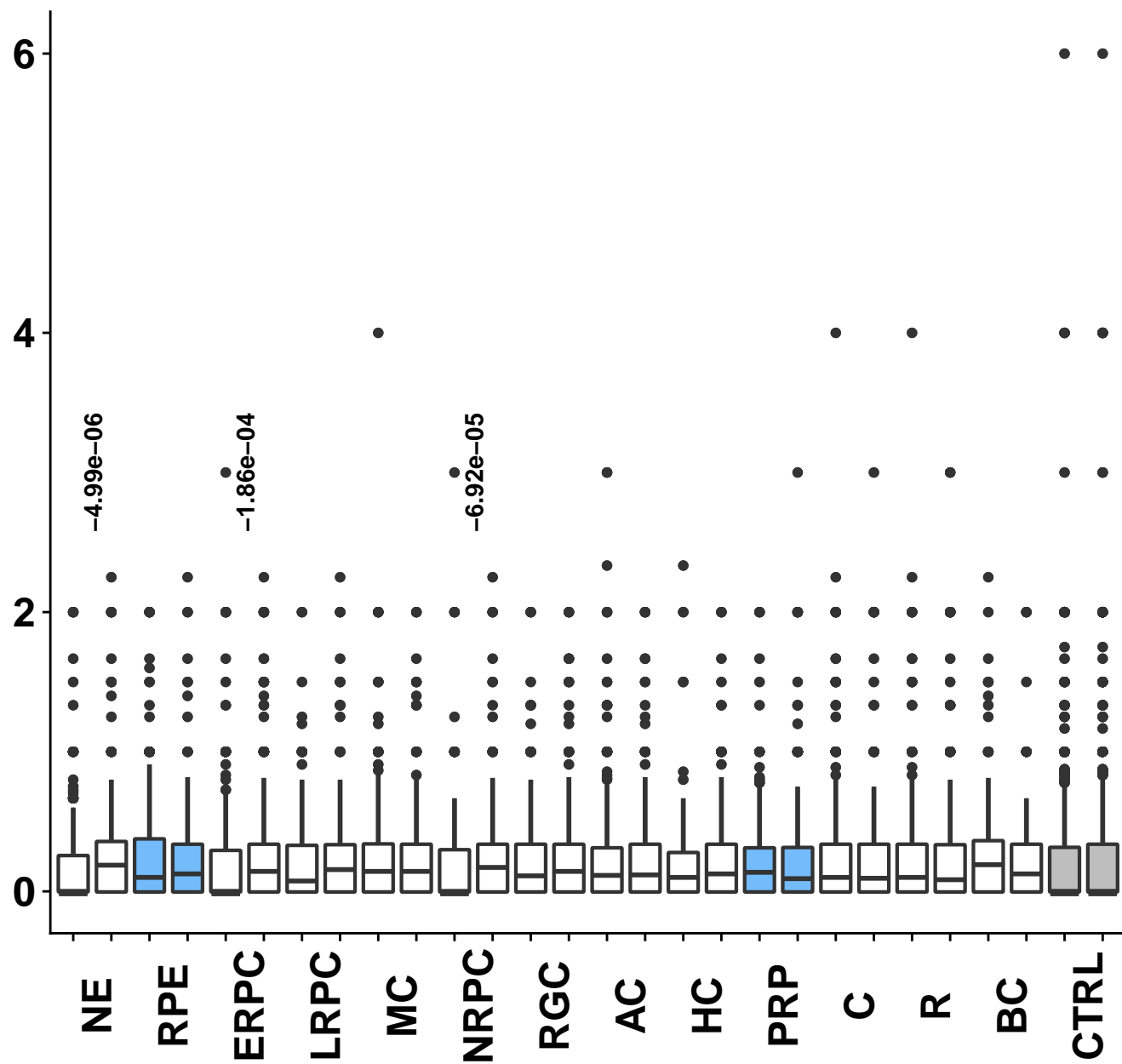
Jun_9_mean



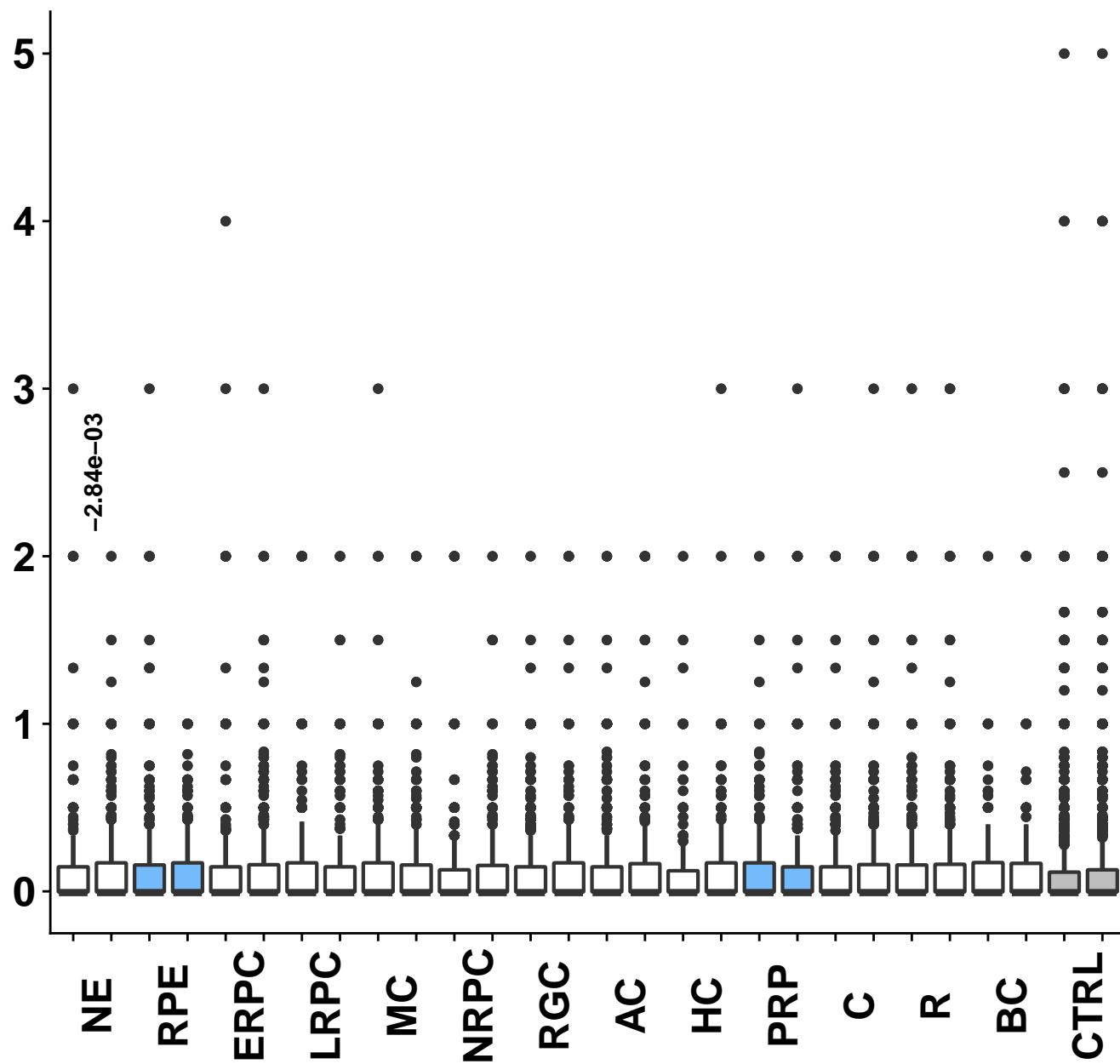
Jun_10_mean



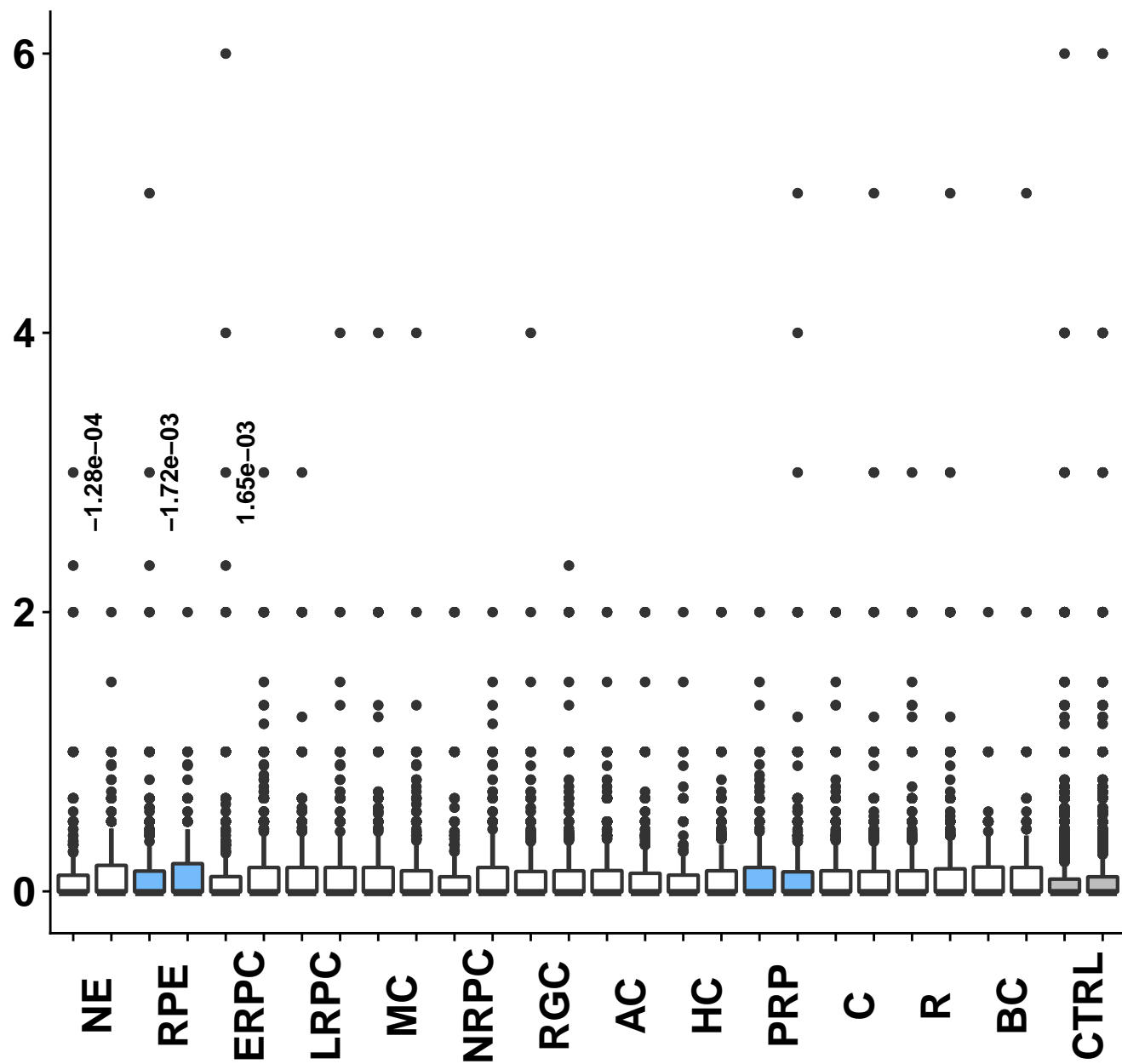
Jun_11_mean



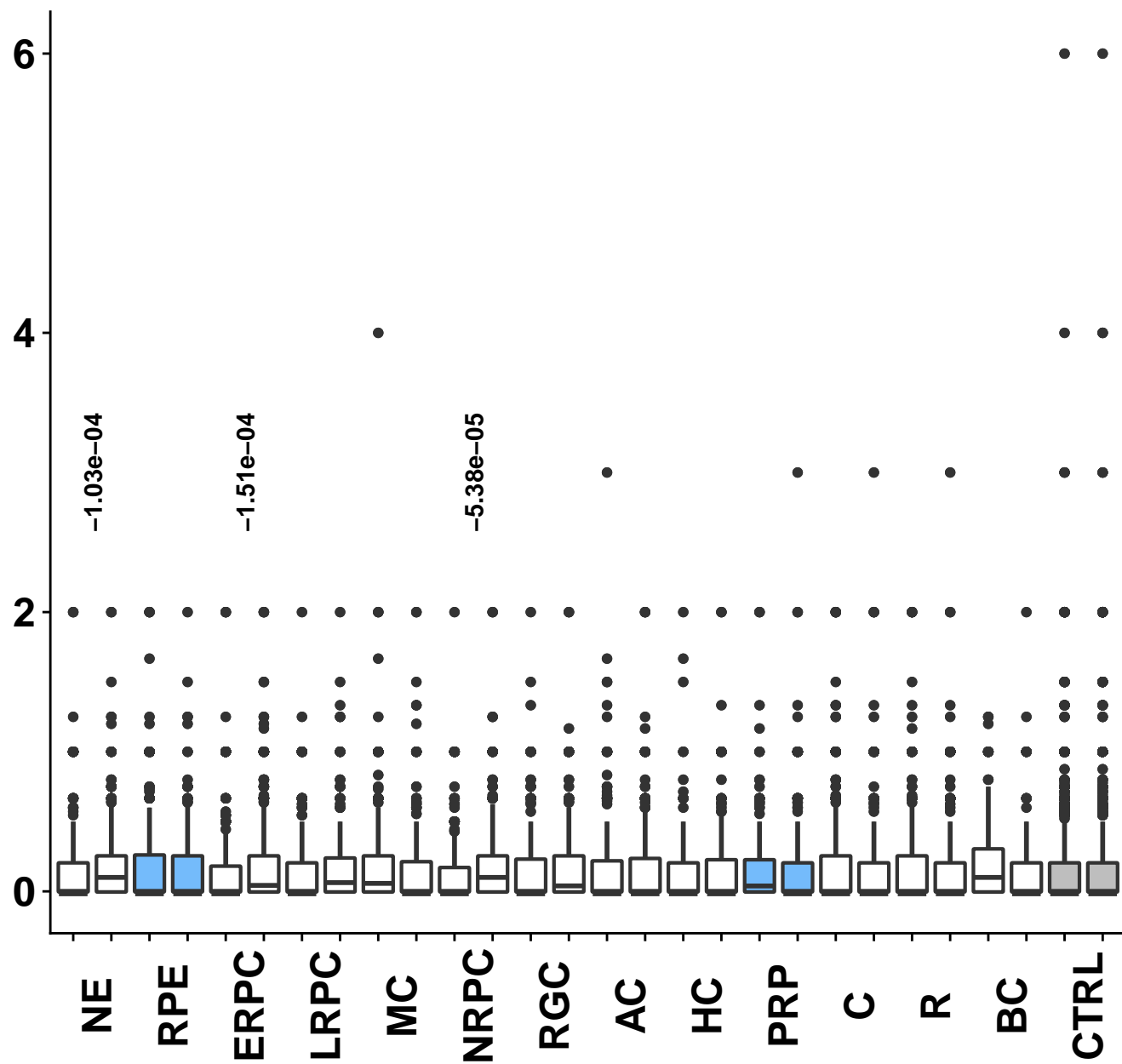
Jun_12_mean



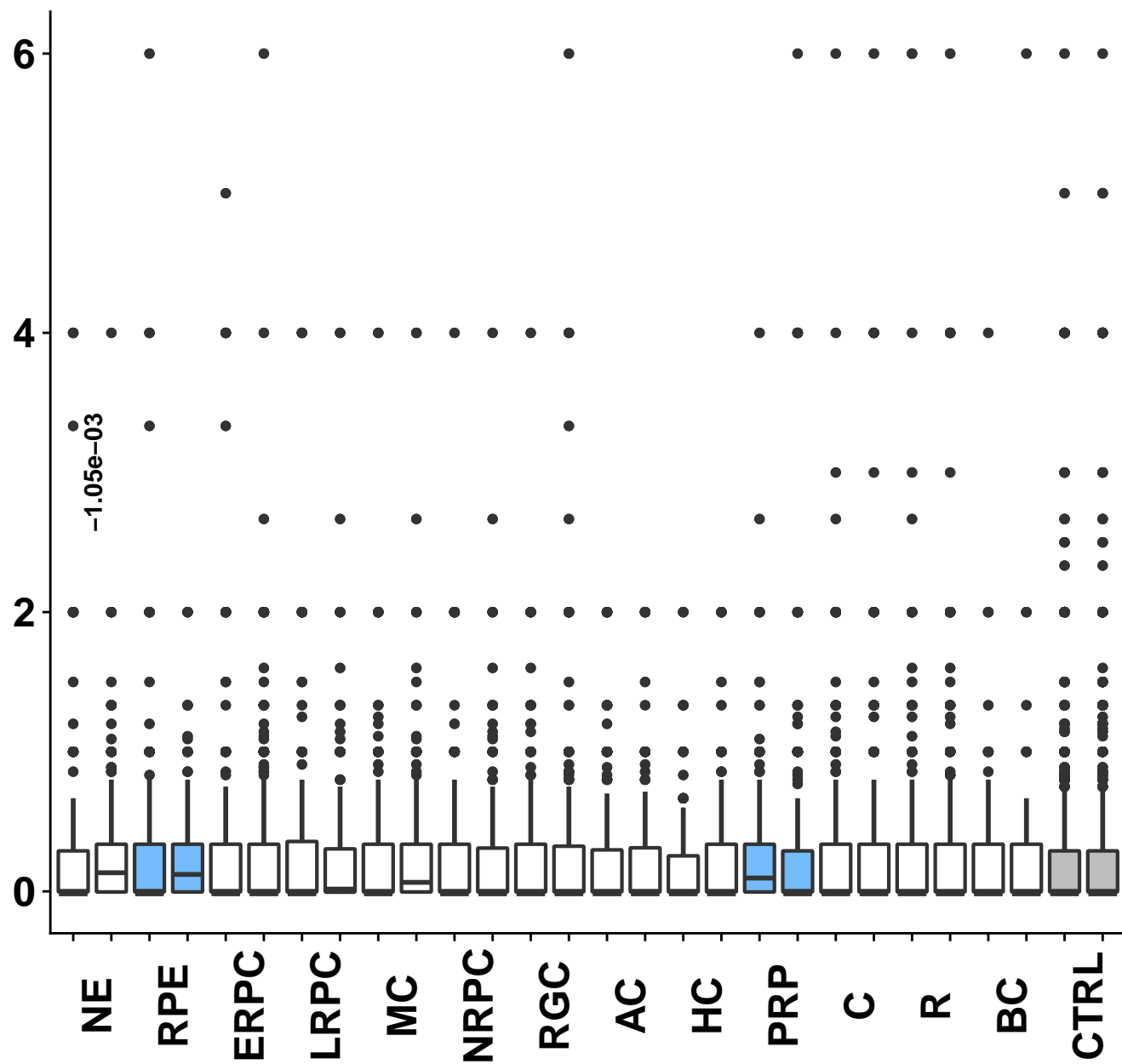
Jun_13_mean



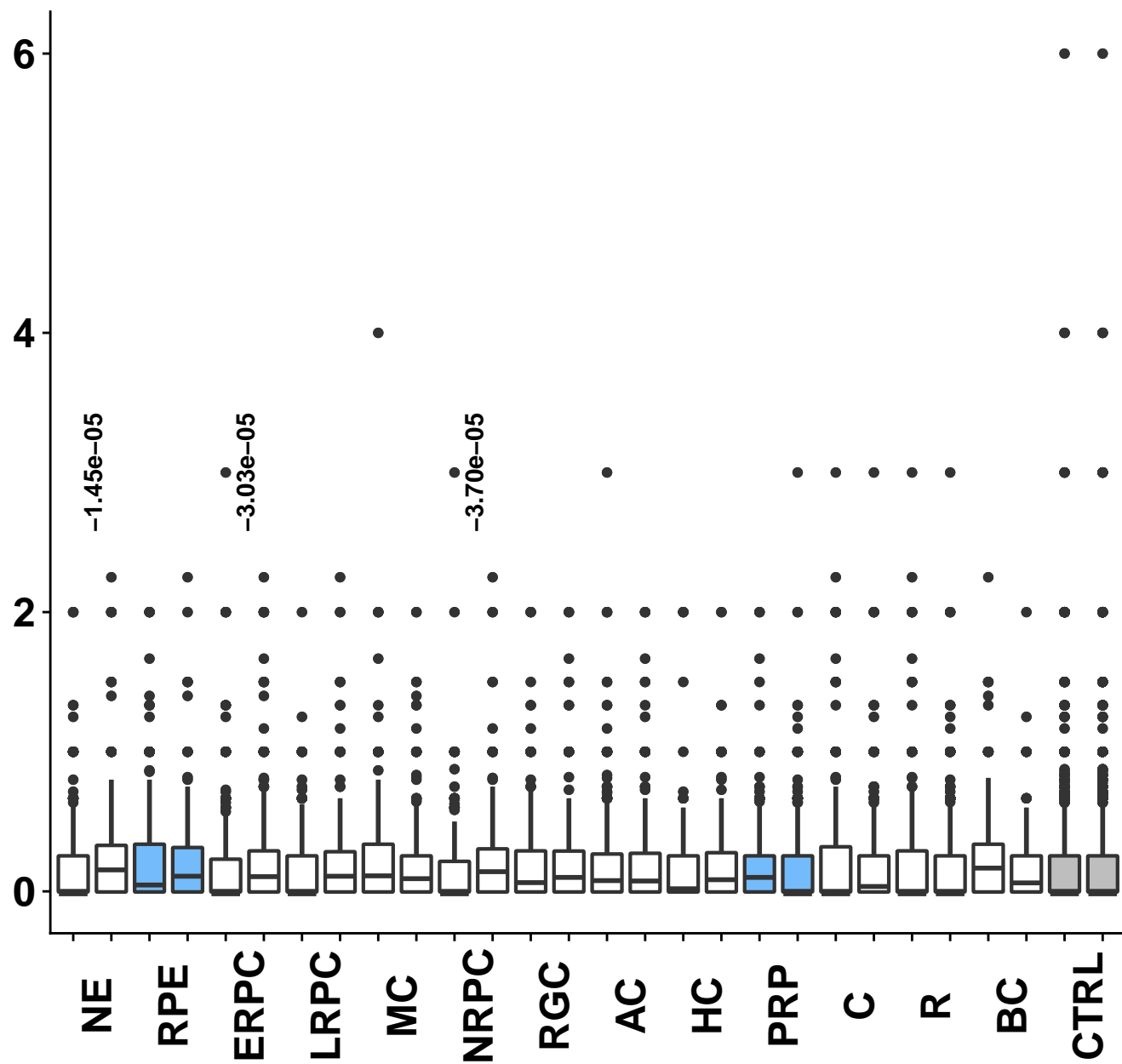
Jun_14_mean



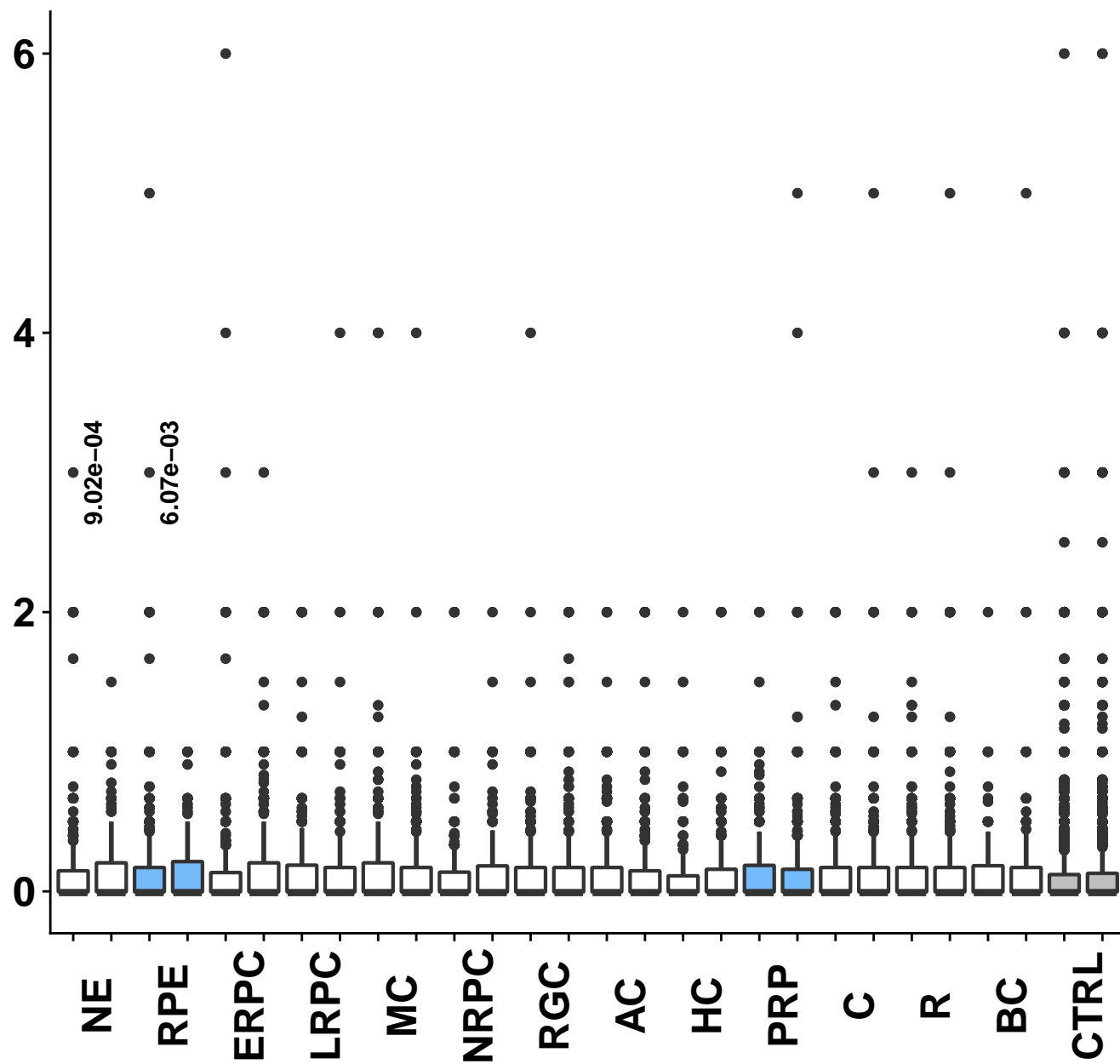
Jun_15_mean



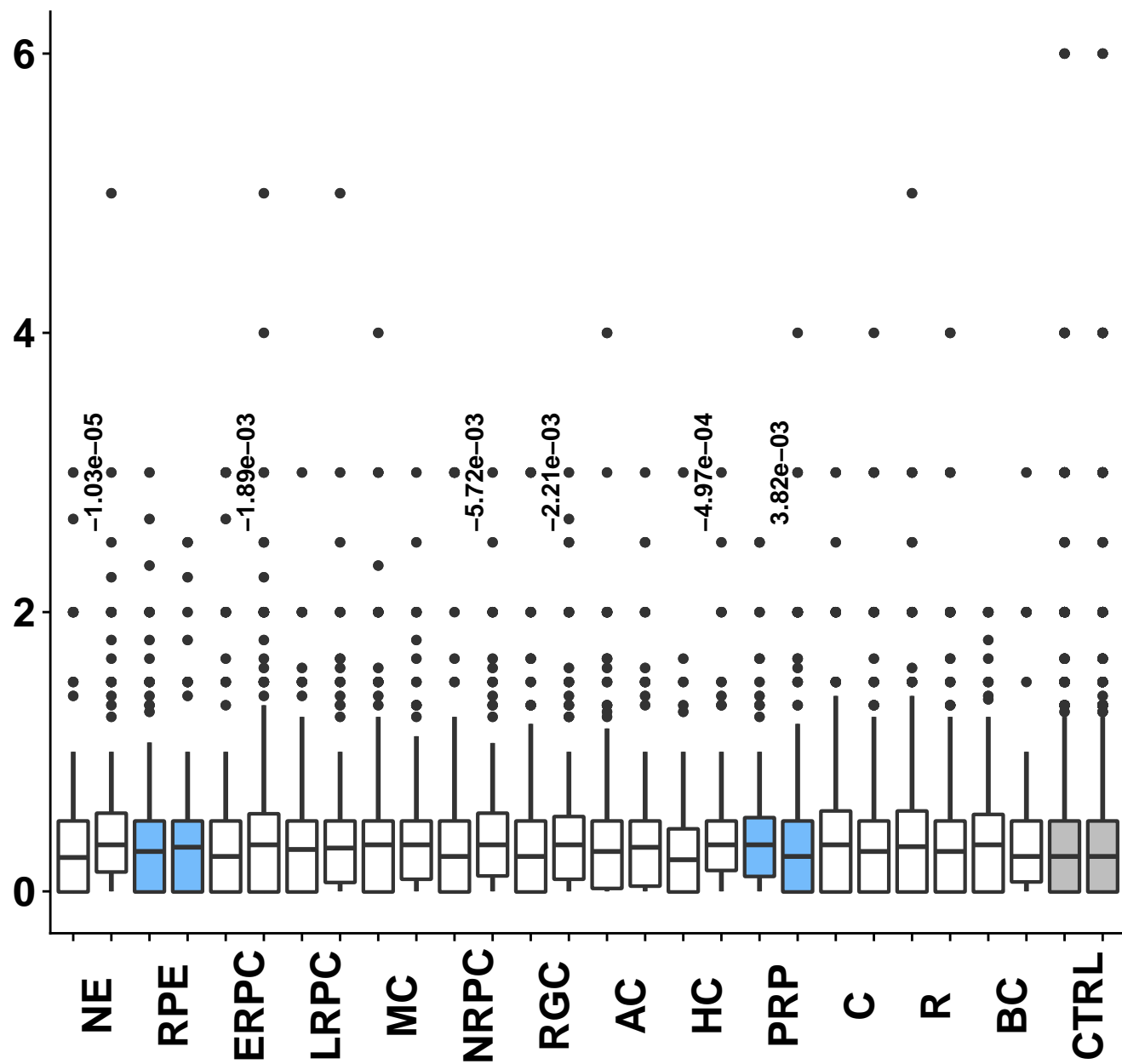
Jun_16_mean



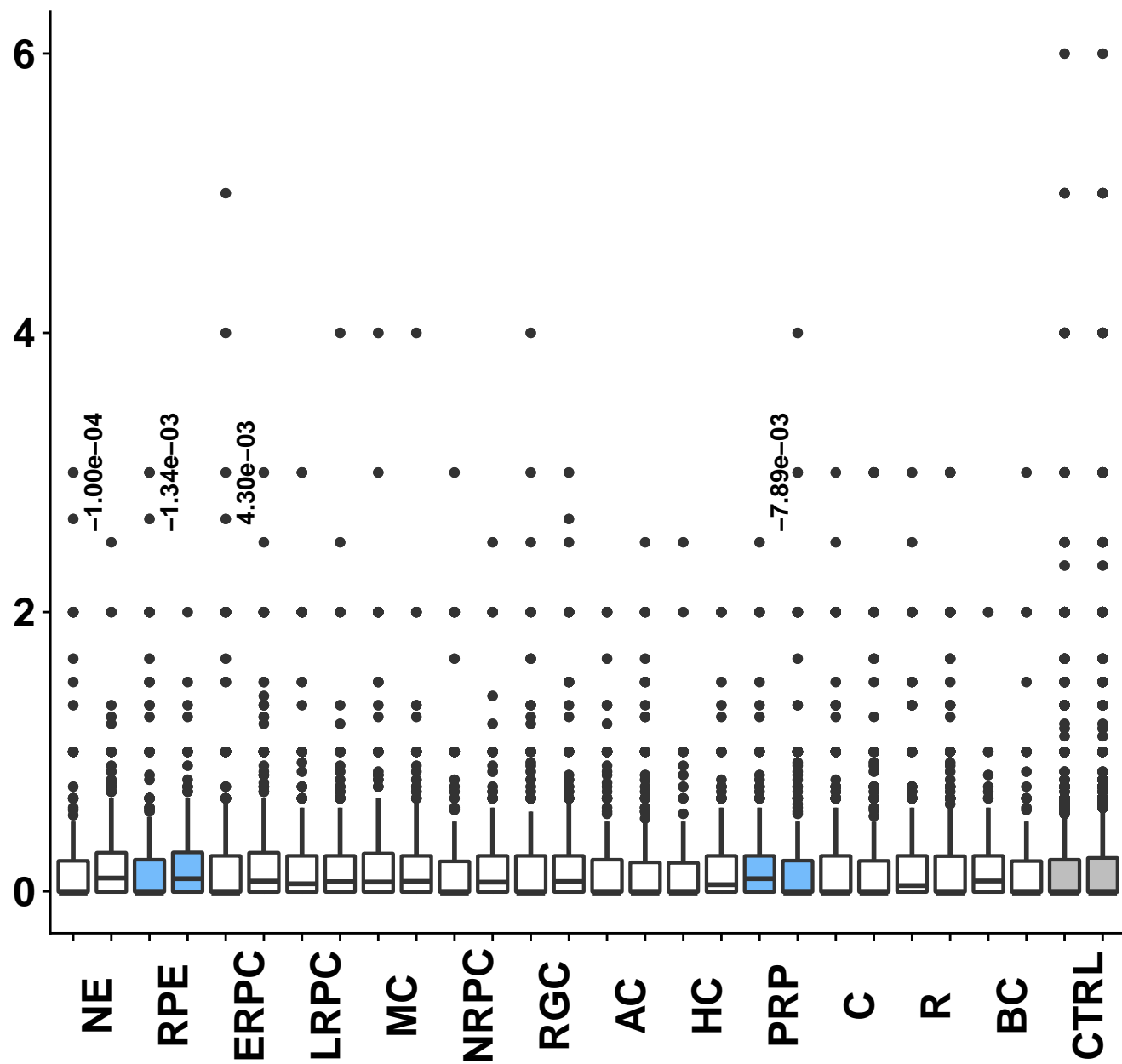
Jun_17_mean



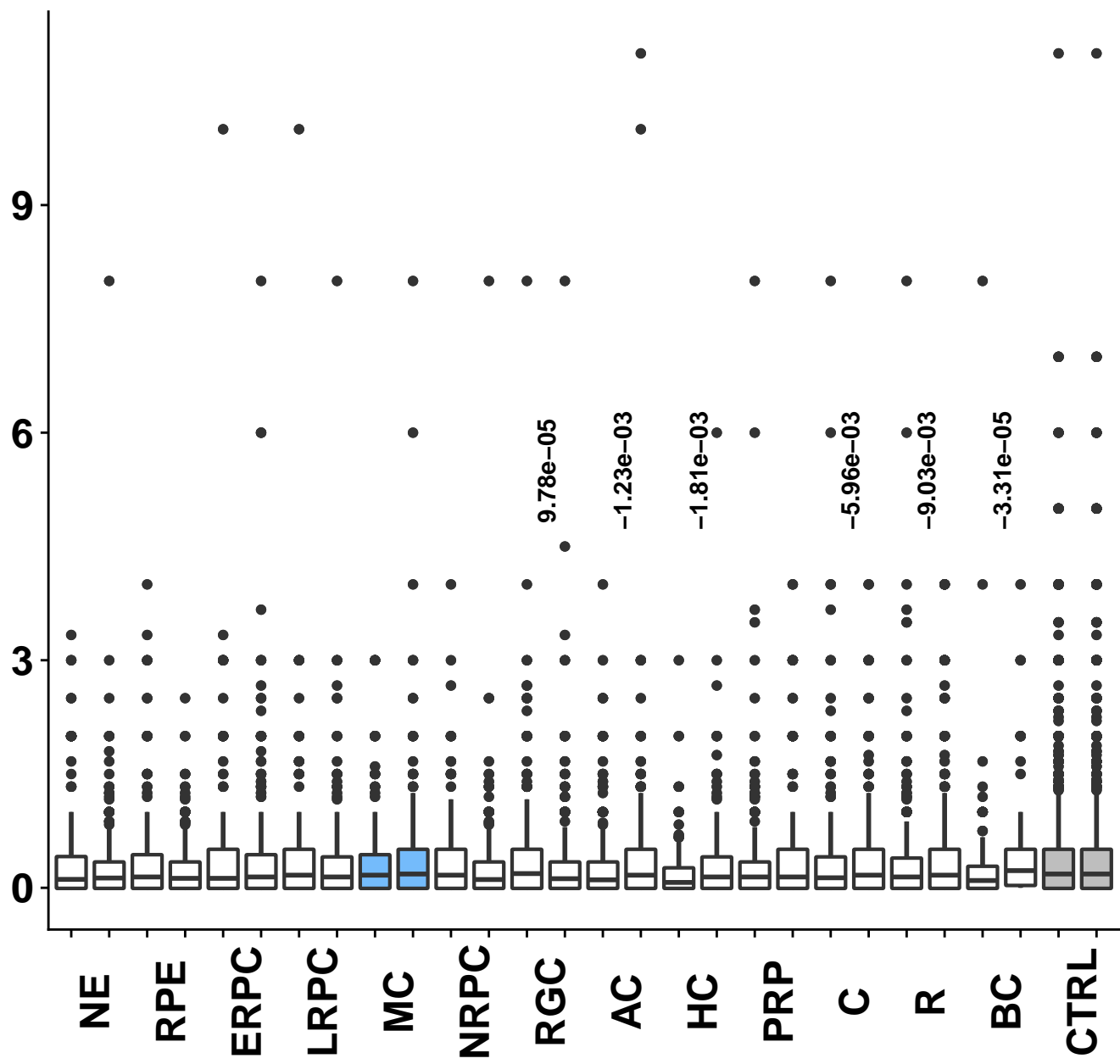
Jun_18_mean



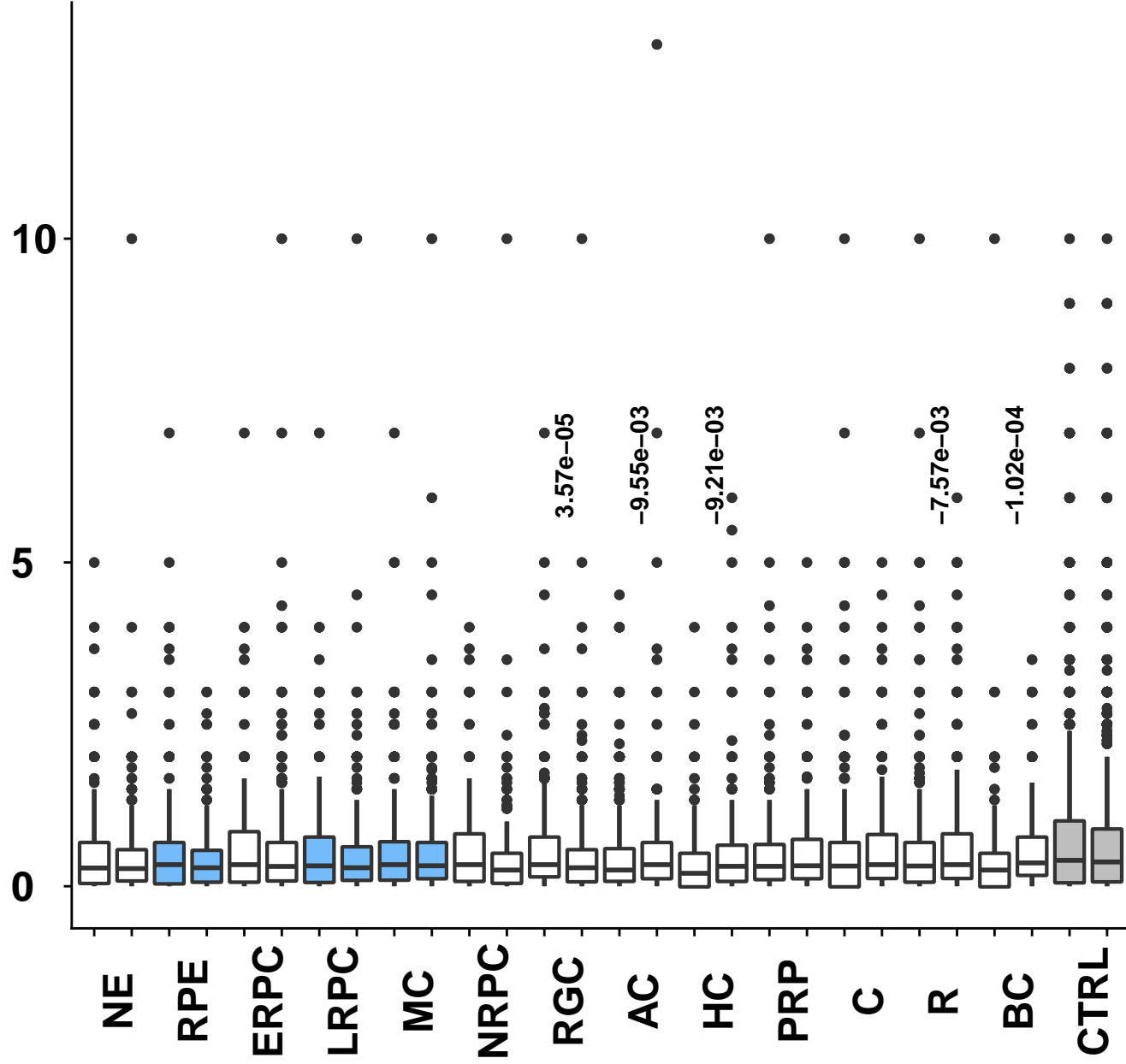
Jun_19_mean



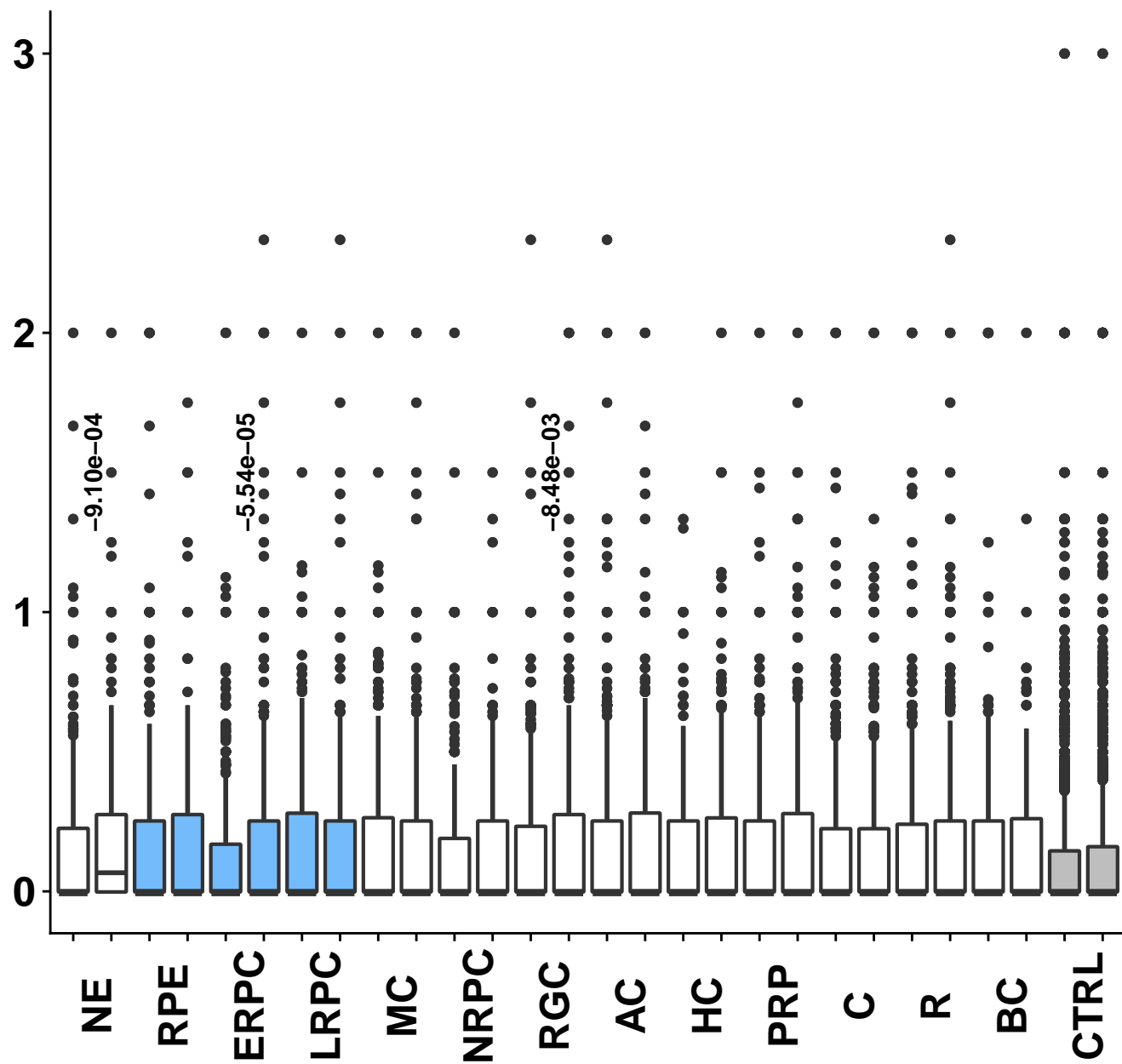
Klf3_1_mean



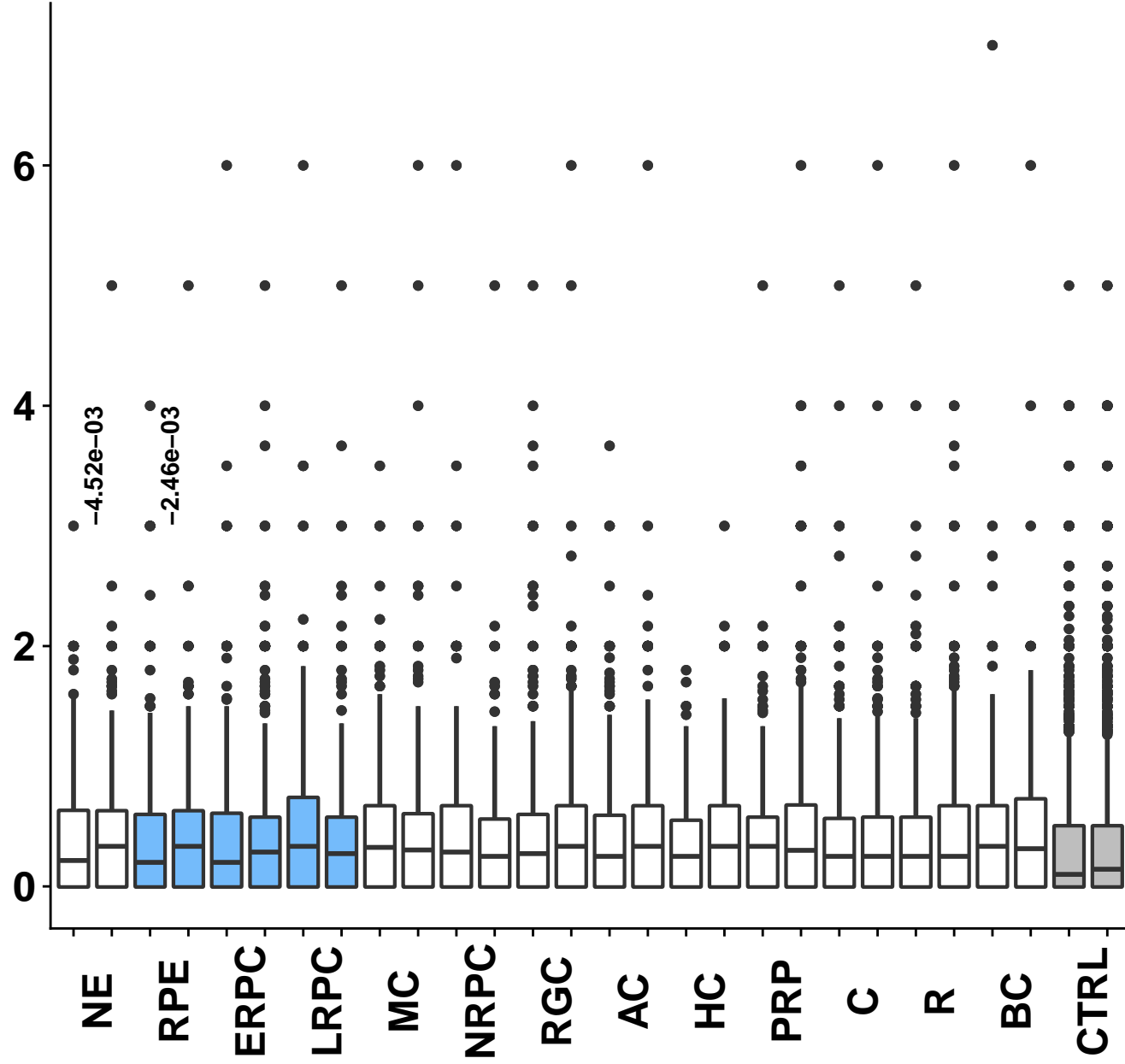
Klf6_1_mean



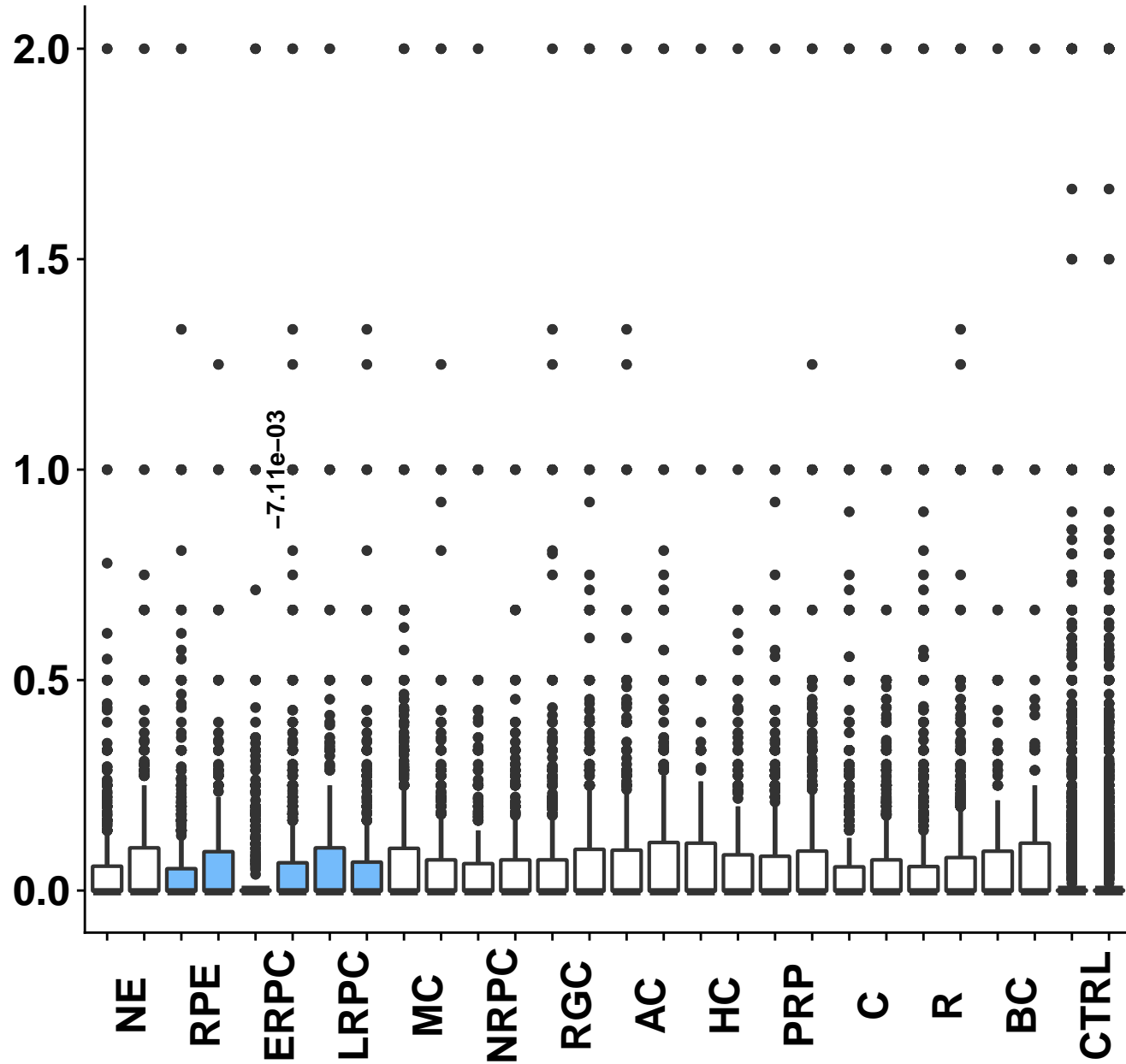
Lhx2_1_mean



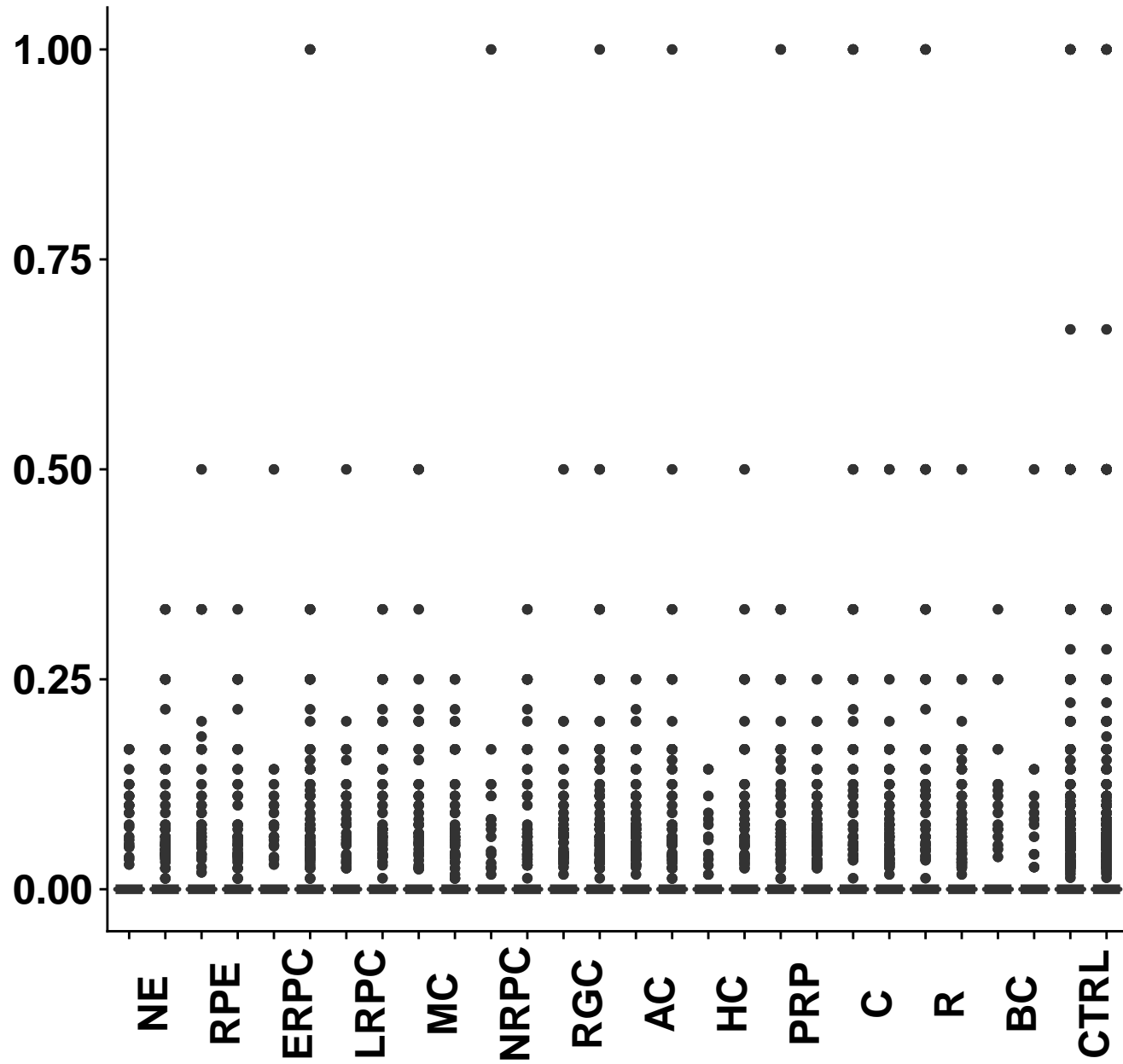
Lhx2_2_mean



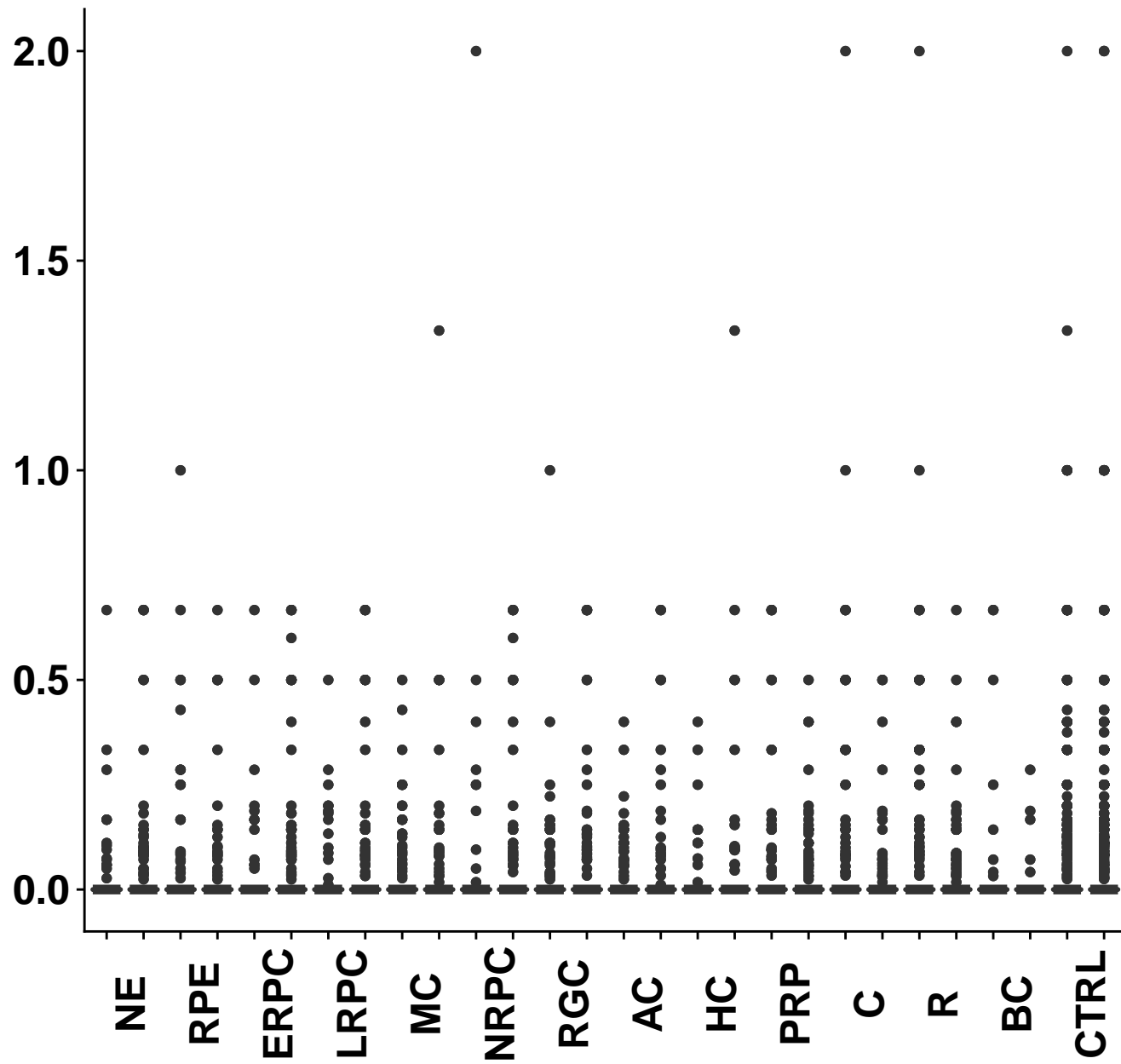
Lhx2_3_mean



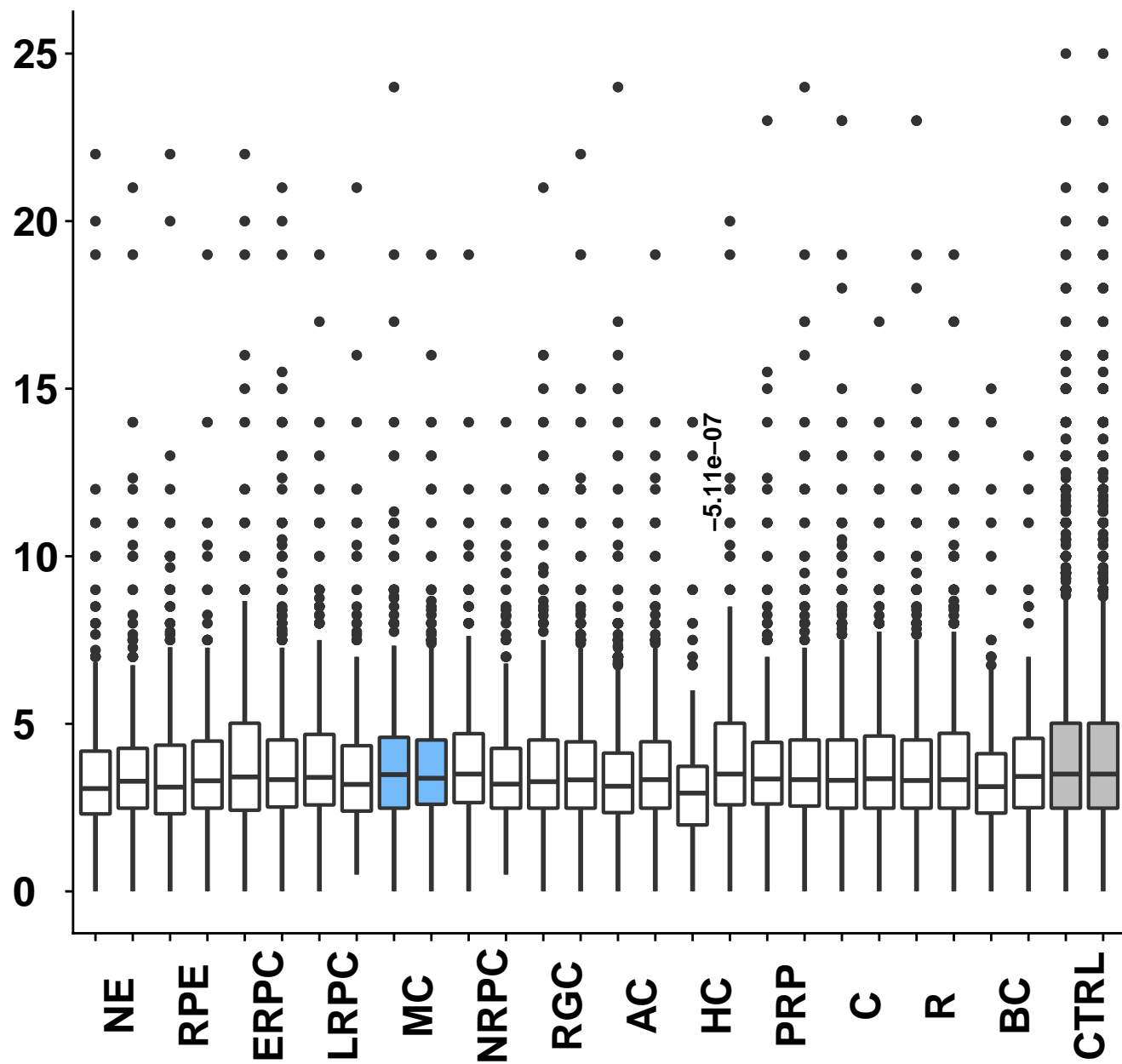
Maff_1_mean



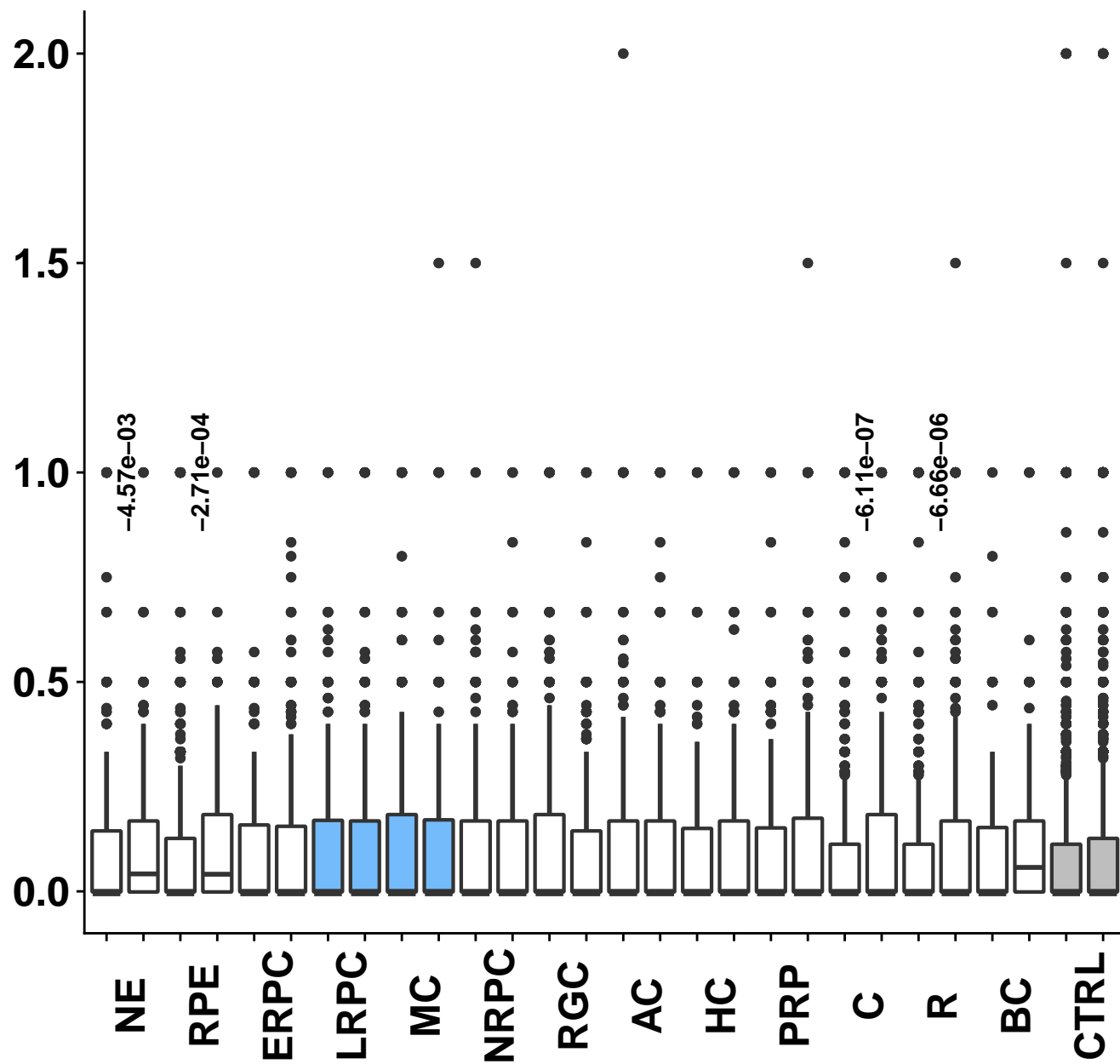
Maff_2_mean



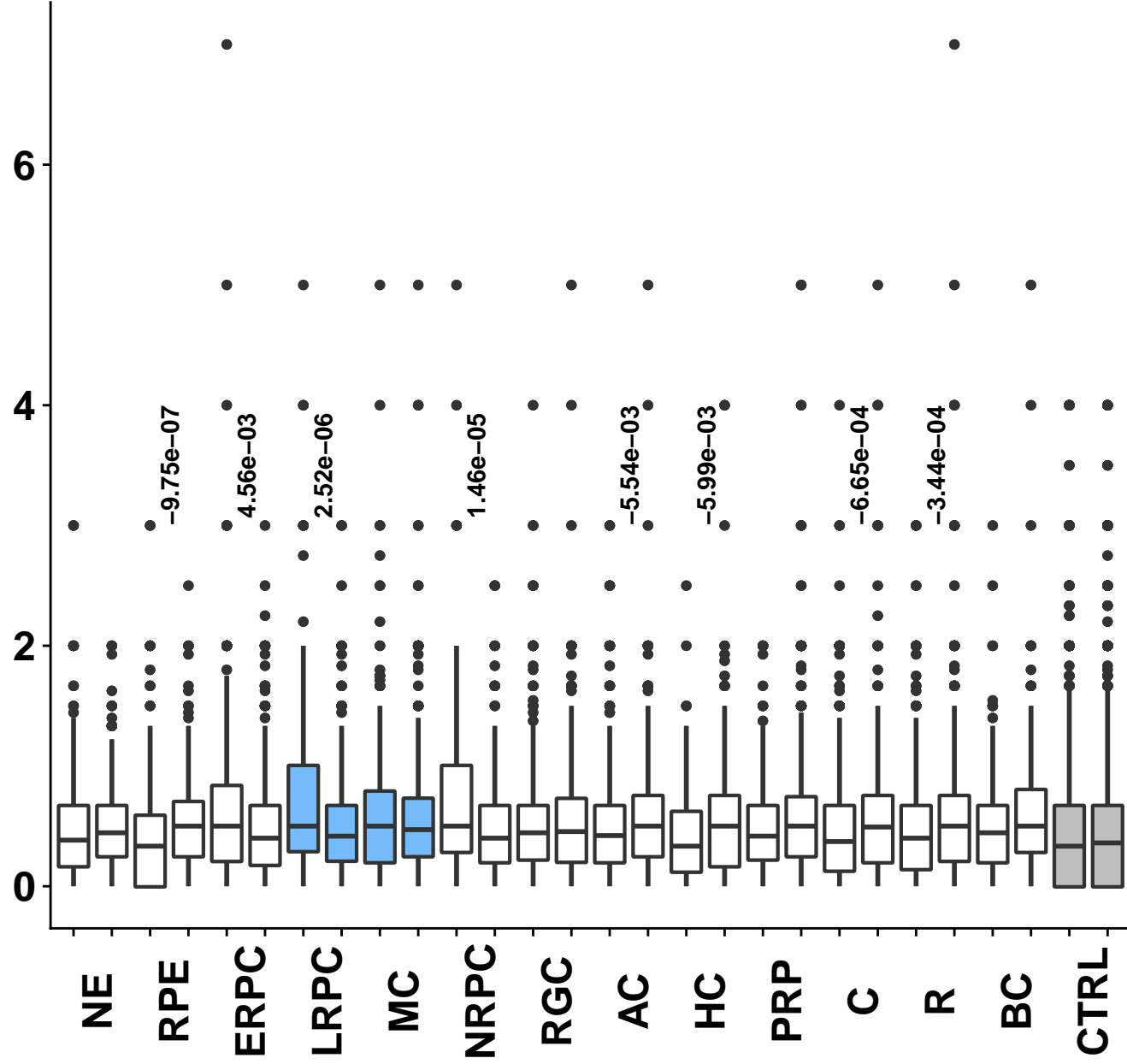
Nfix_1_mean



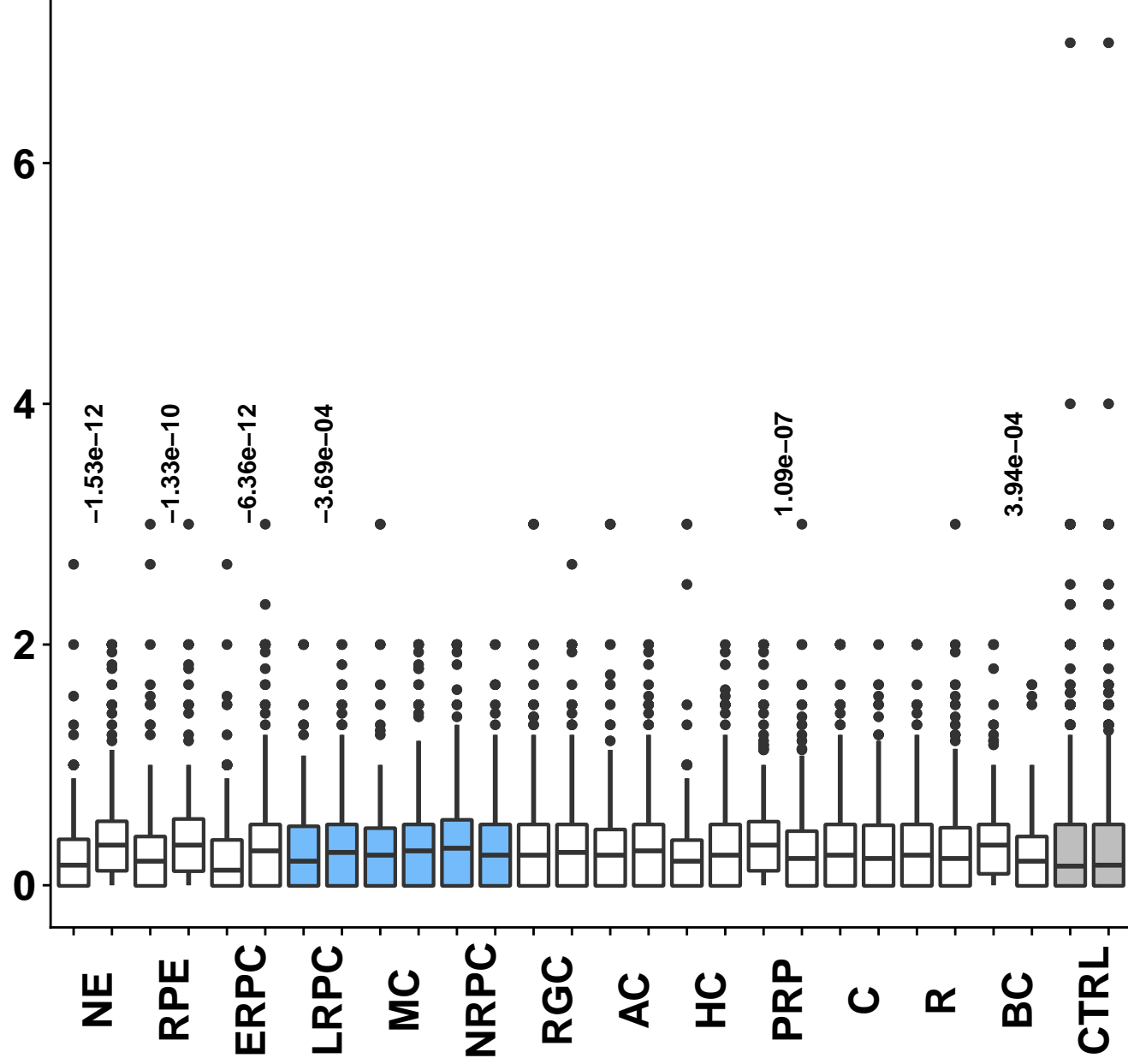
Sox9_1_mean



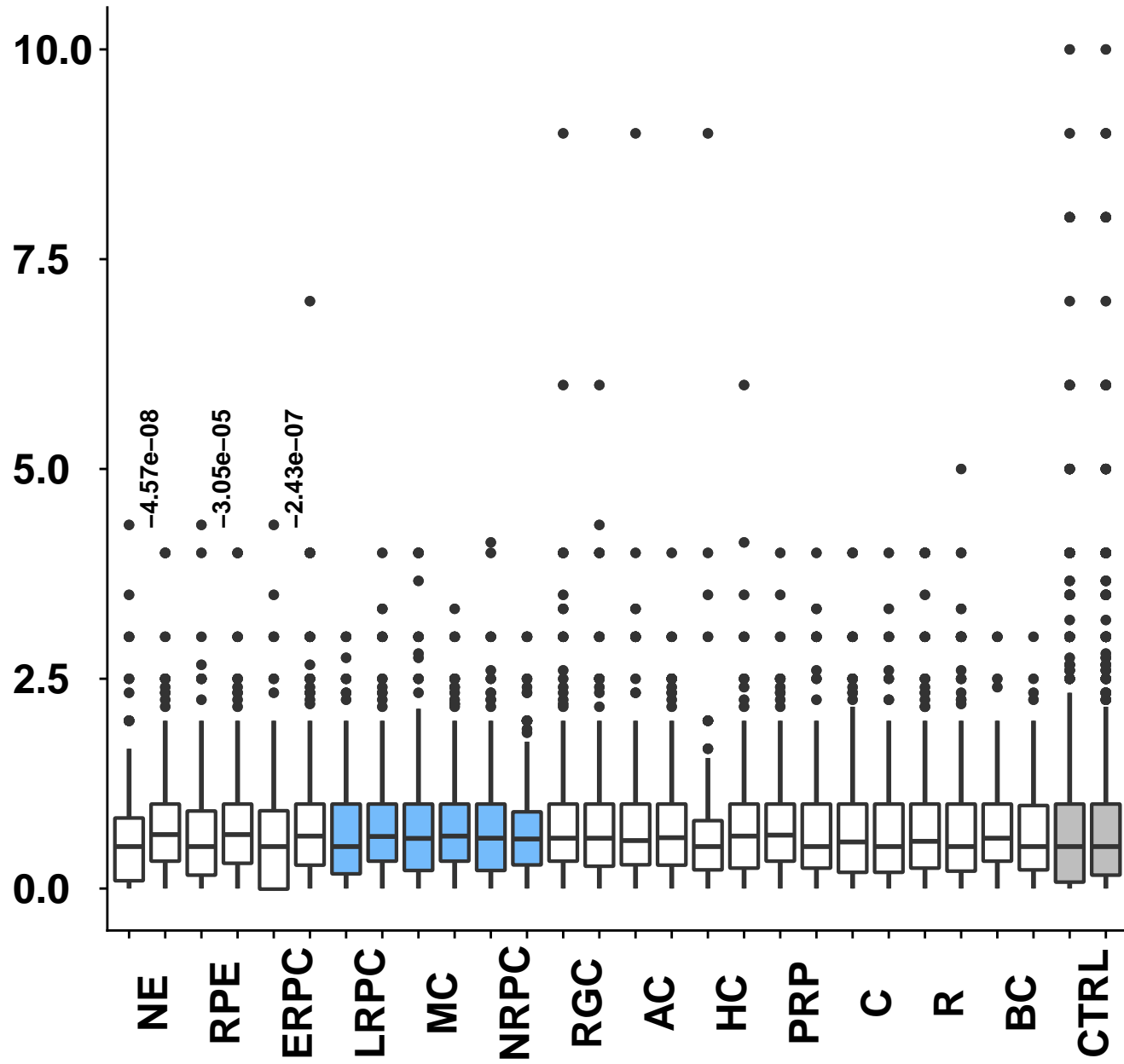
Sox9_2_mean



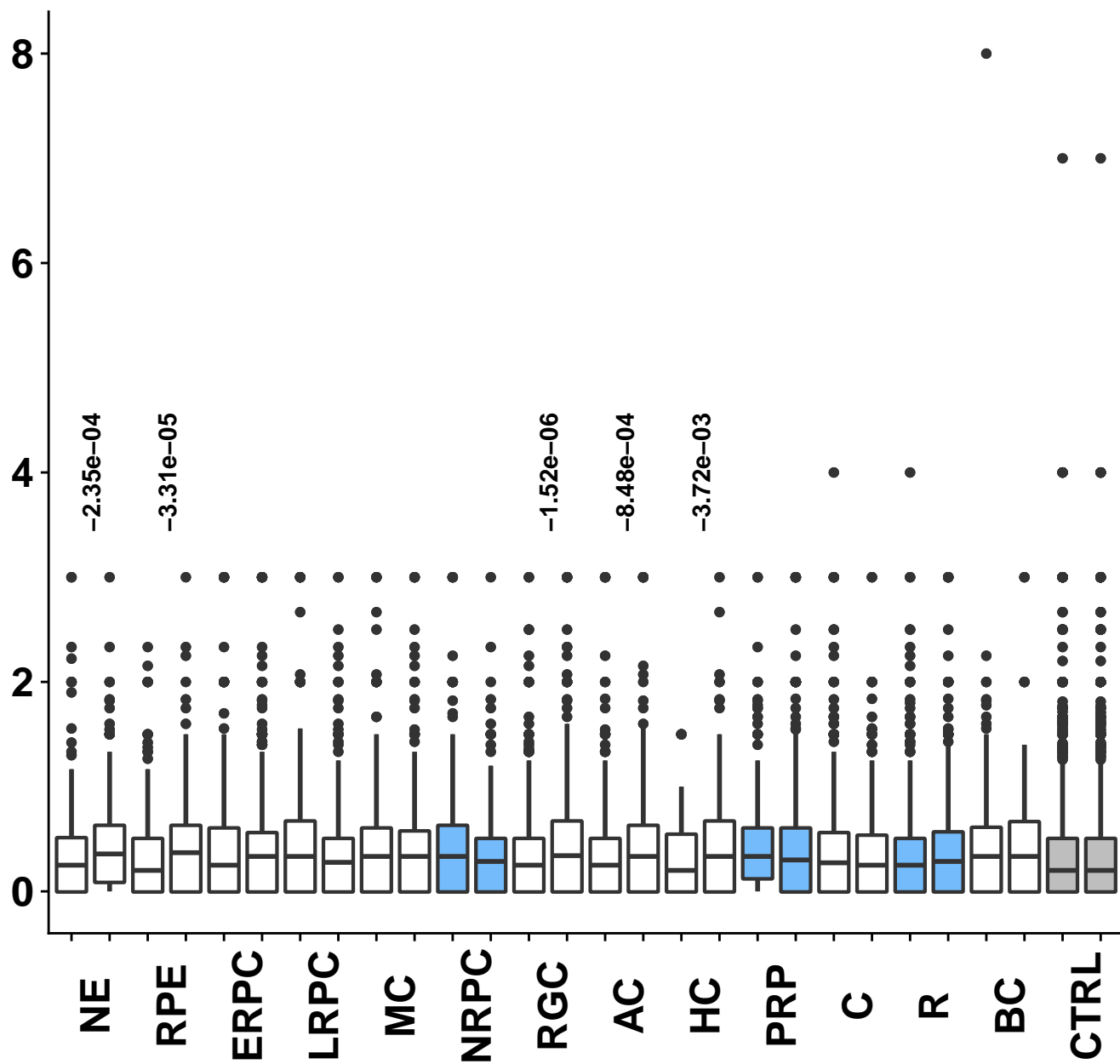
Tcf4_1_mean



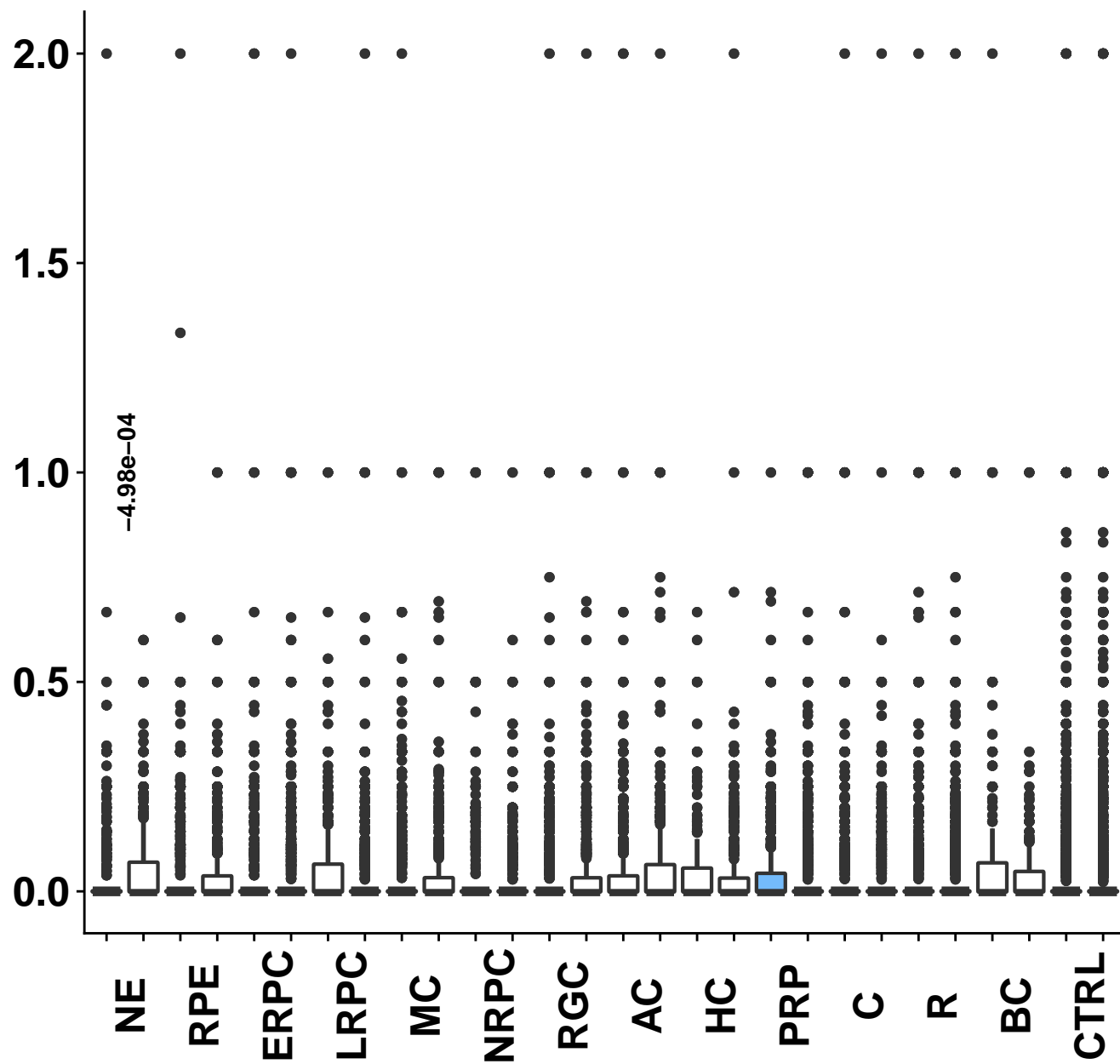
Tcf4_2_mean



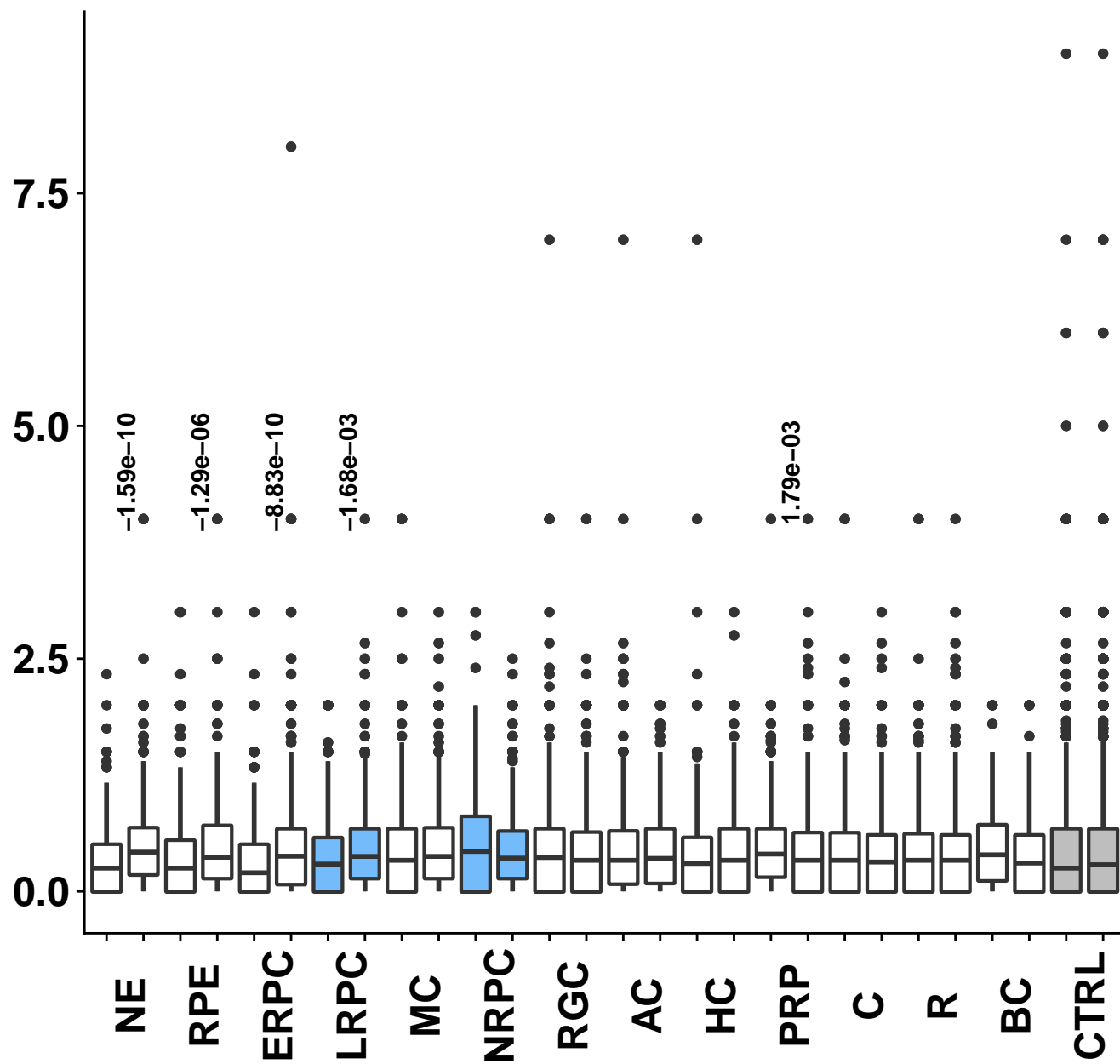
Rax_2_mean



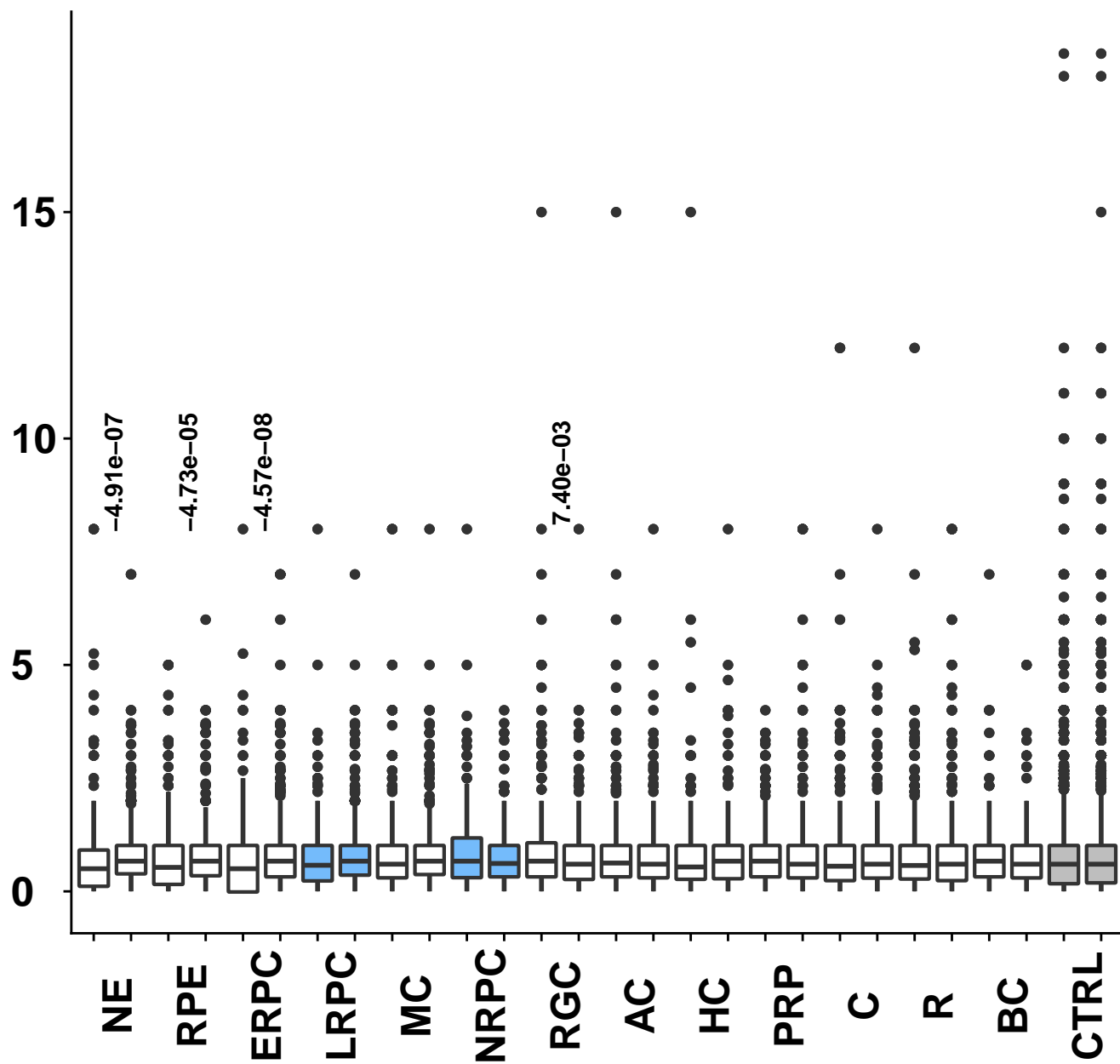
Rax_3_mean



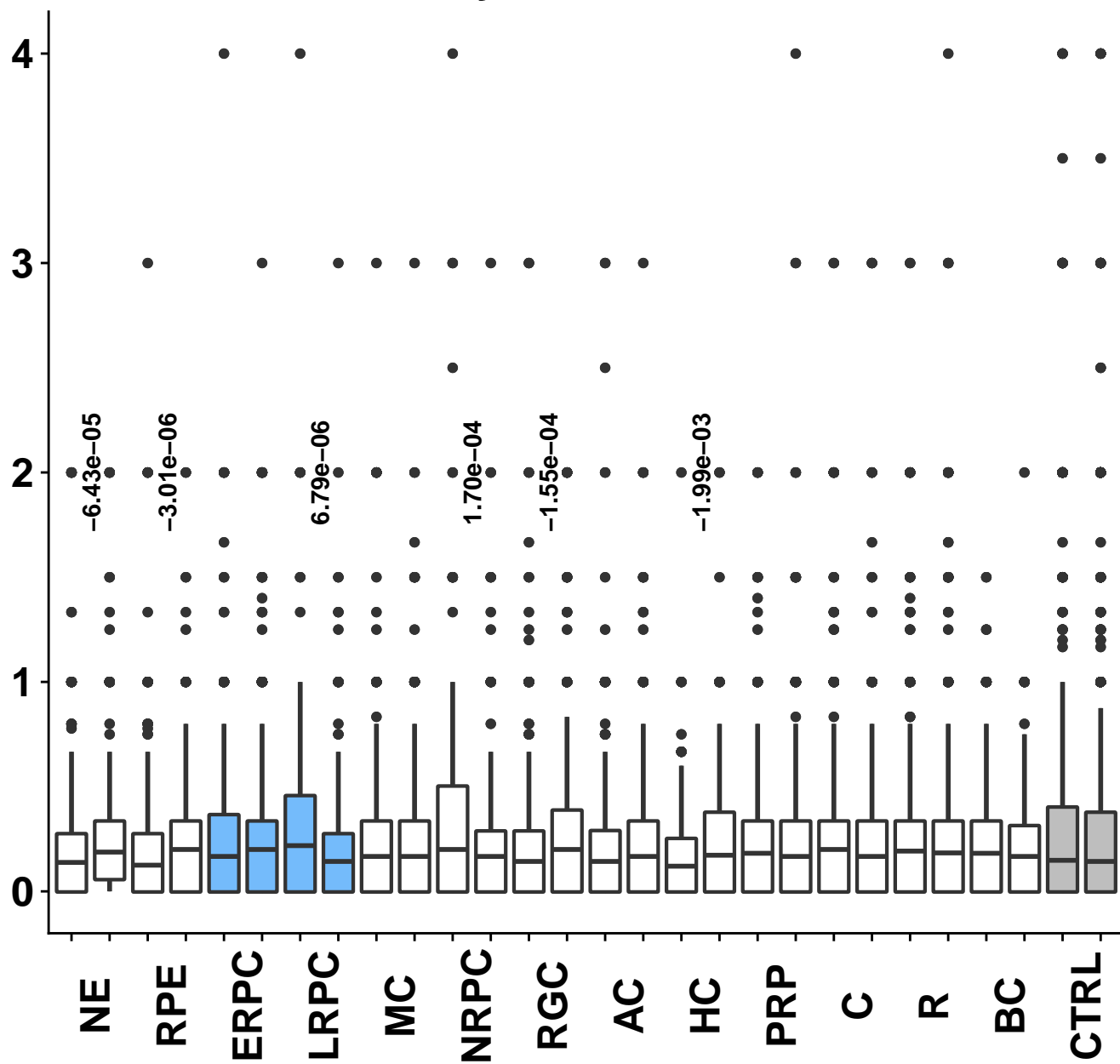
Ascl1_1_mean



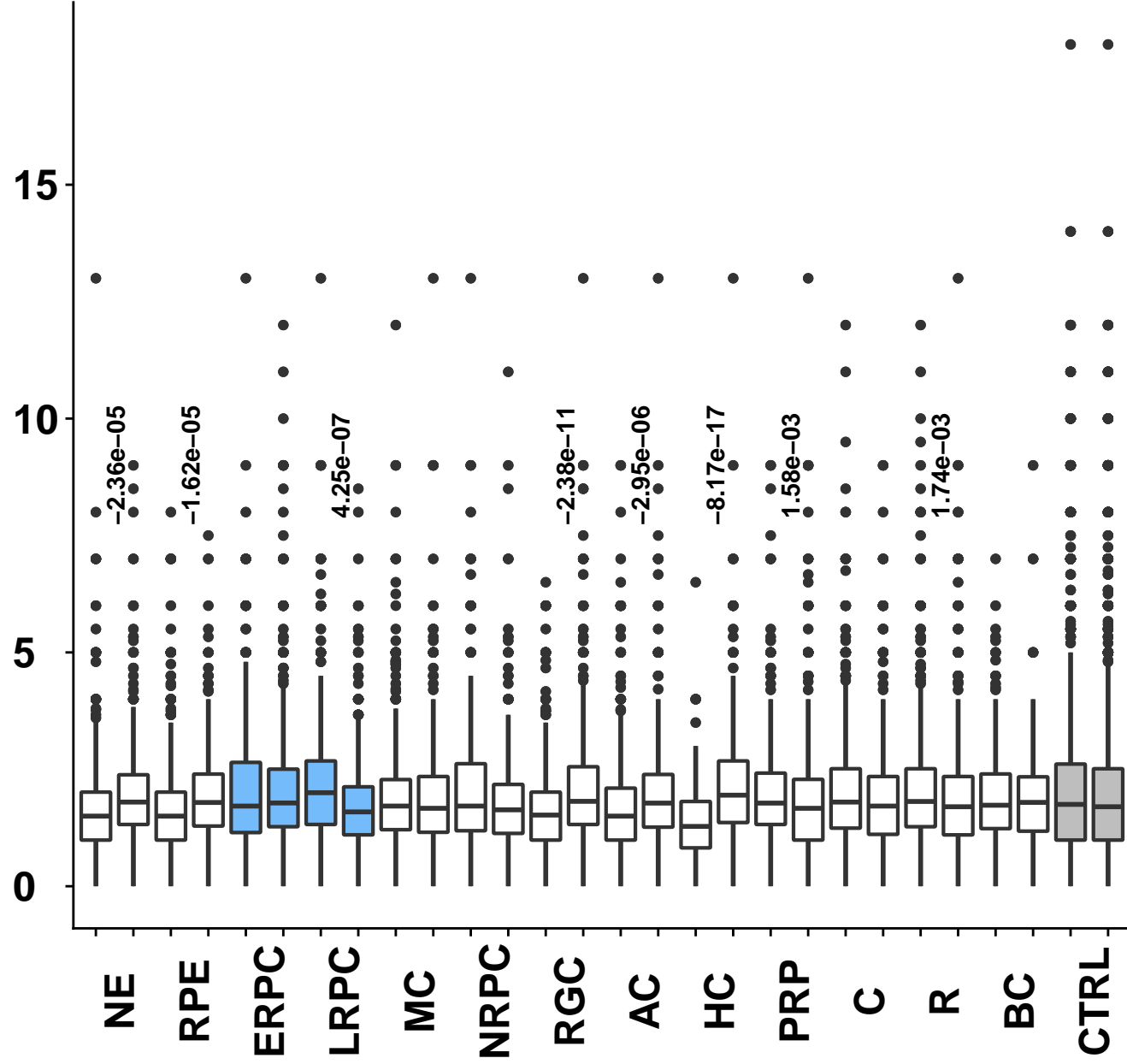
Ascl1_2_mean



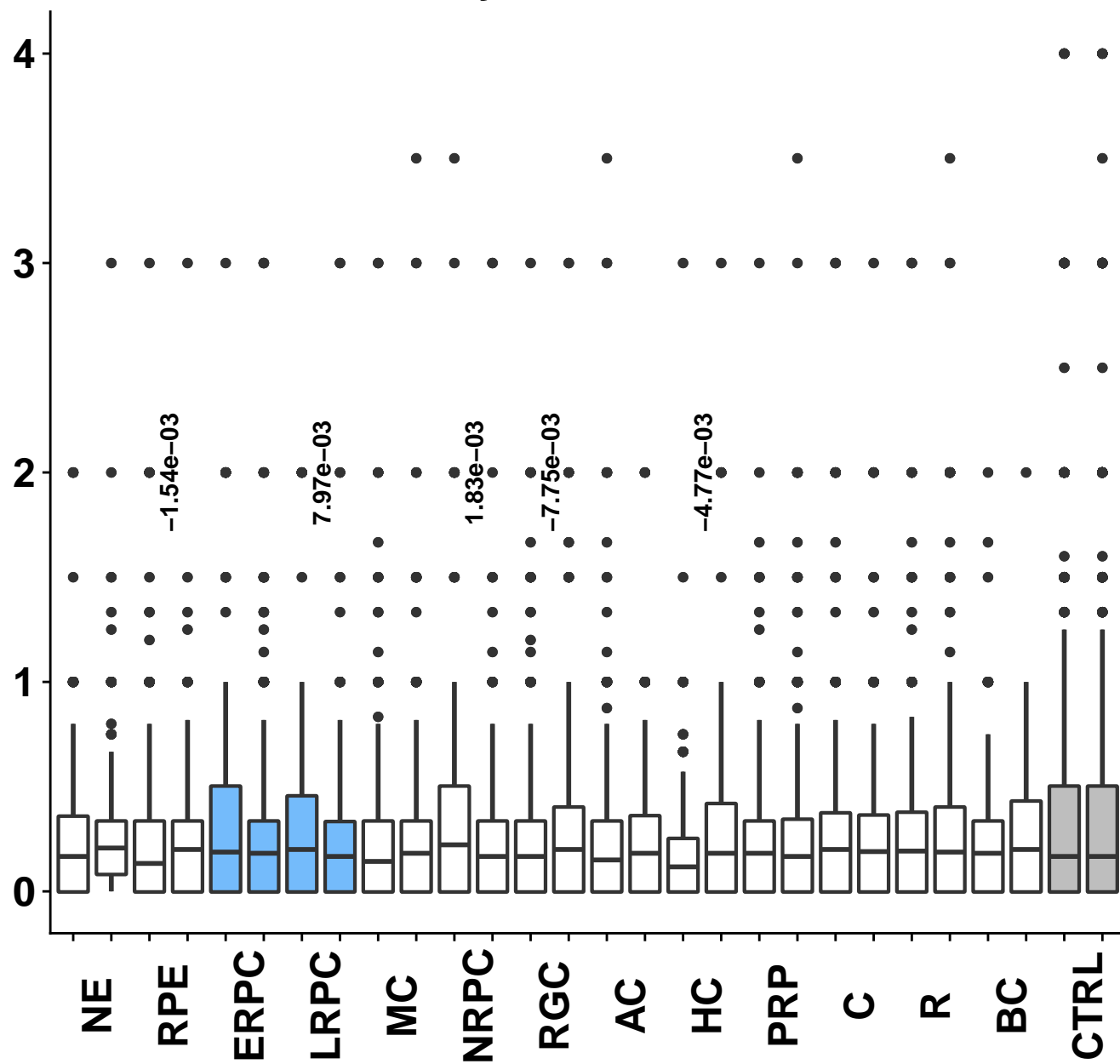
Myb_3_mean



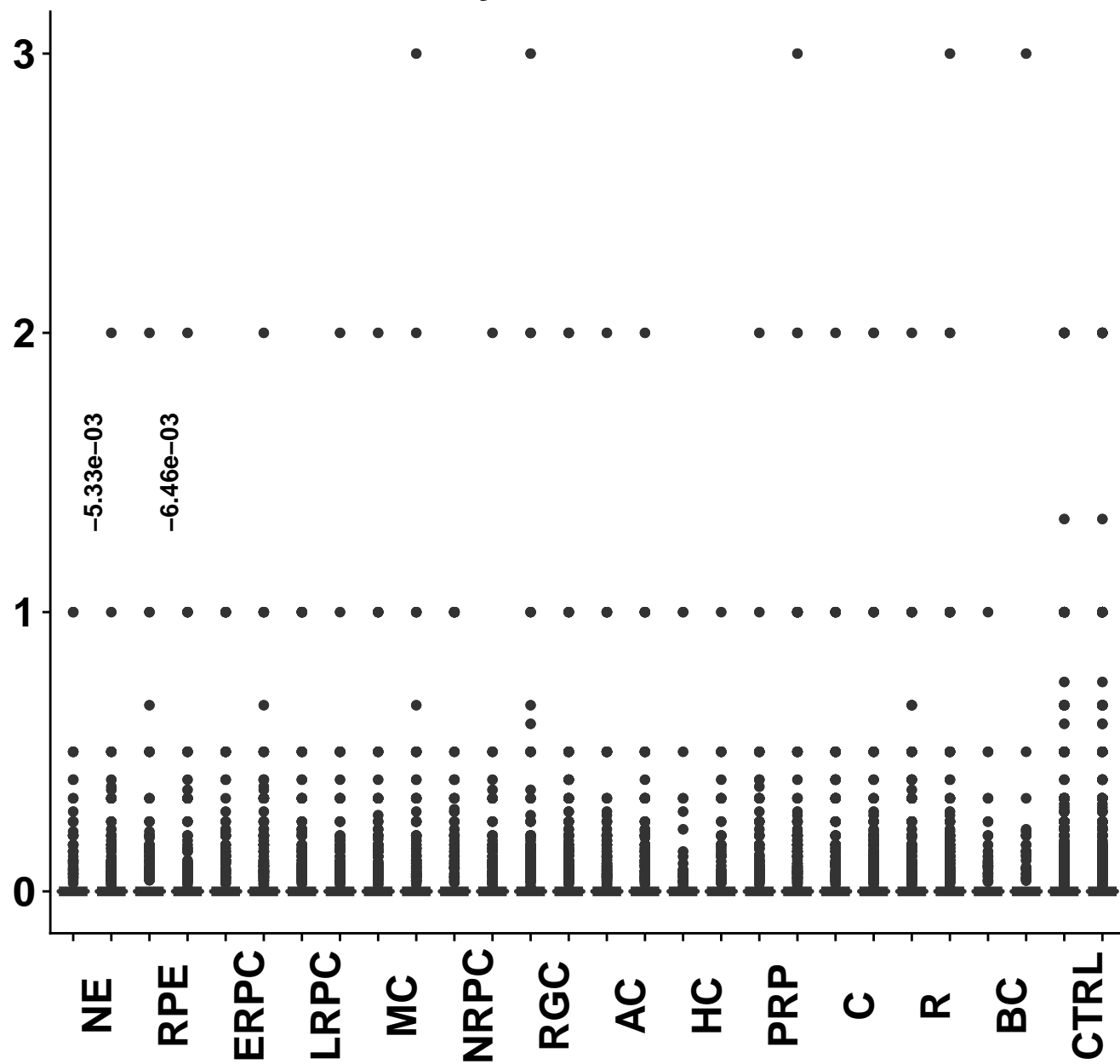
Myb_4_mean



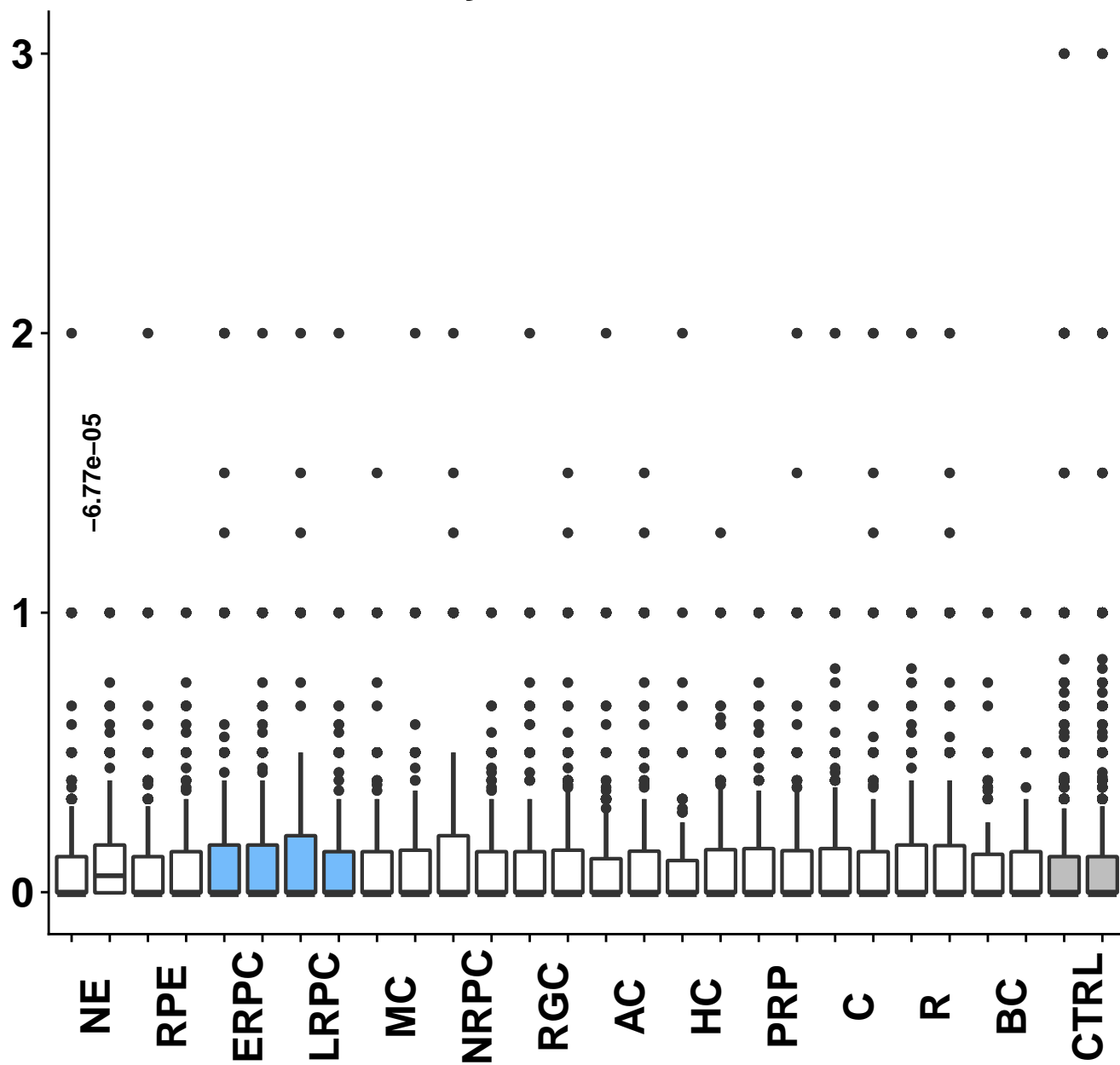
Myb_7_mean



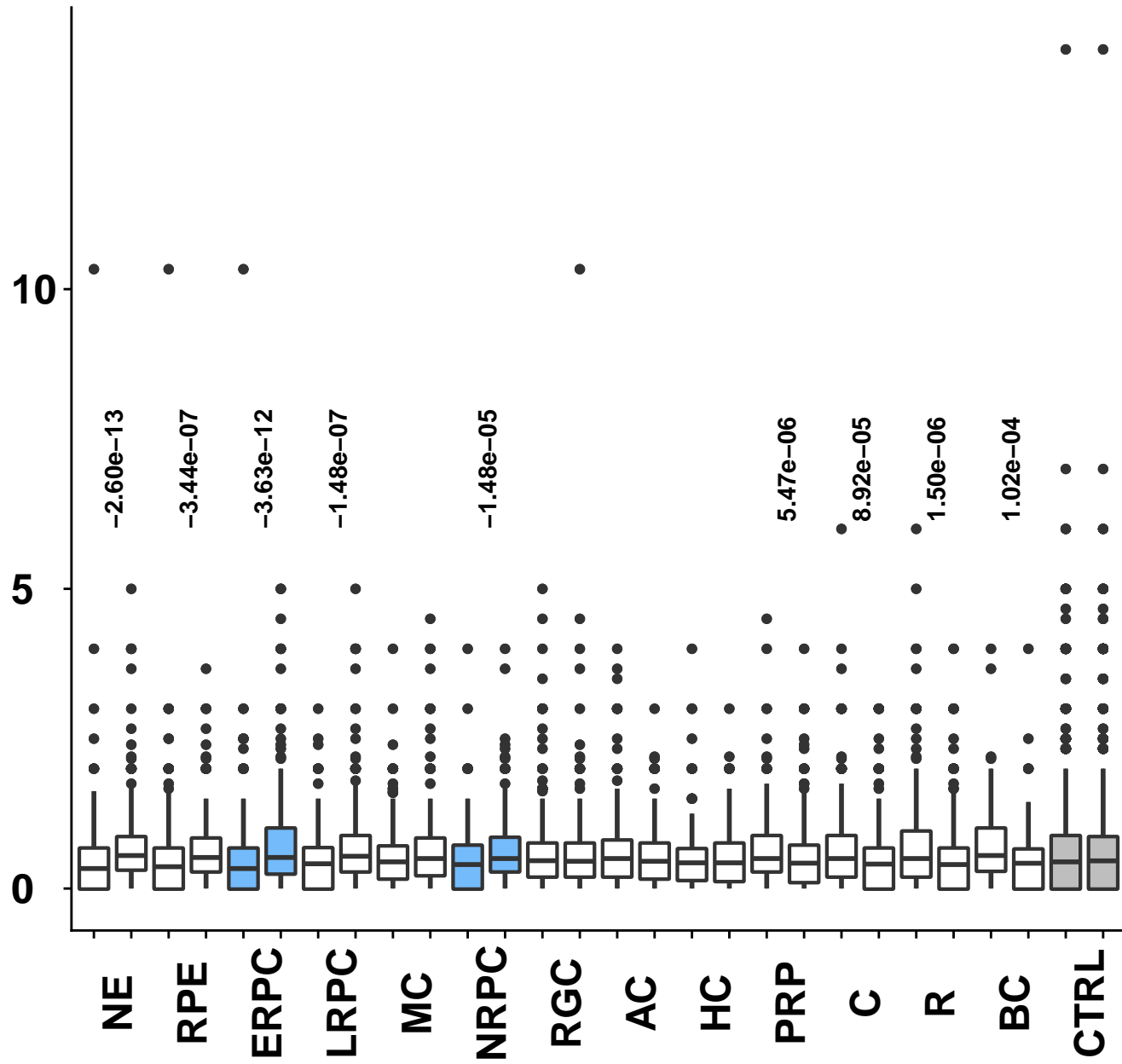
Myb_8_mean



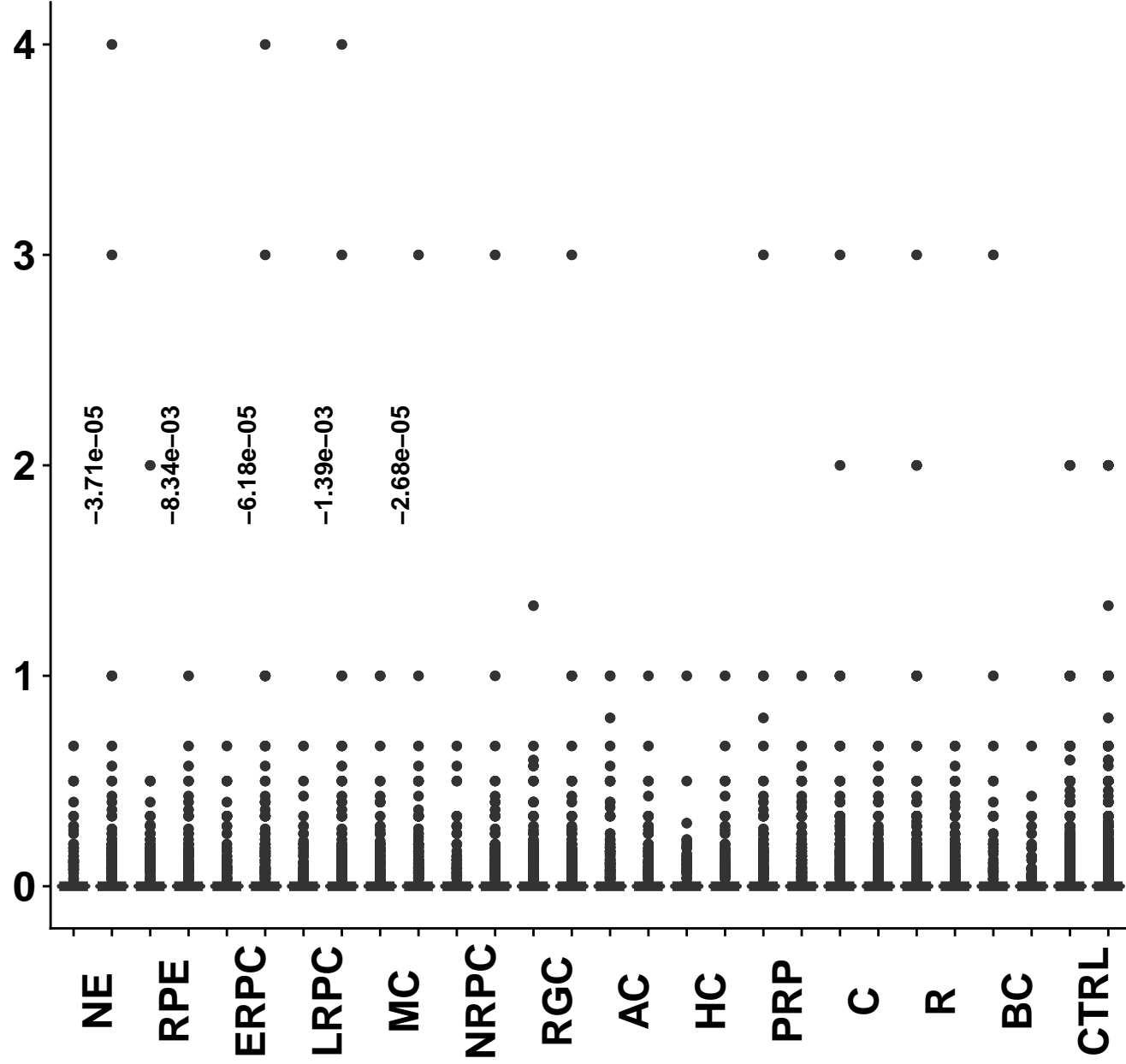
Myb_10_mean



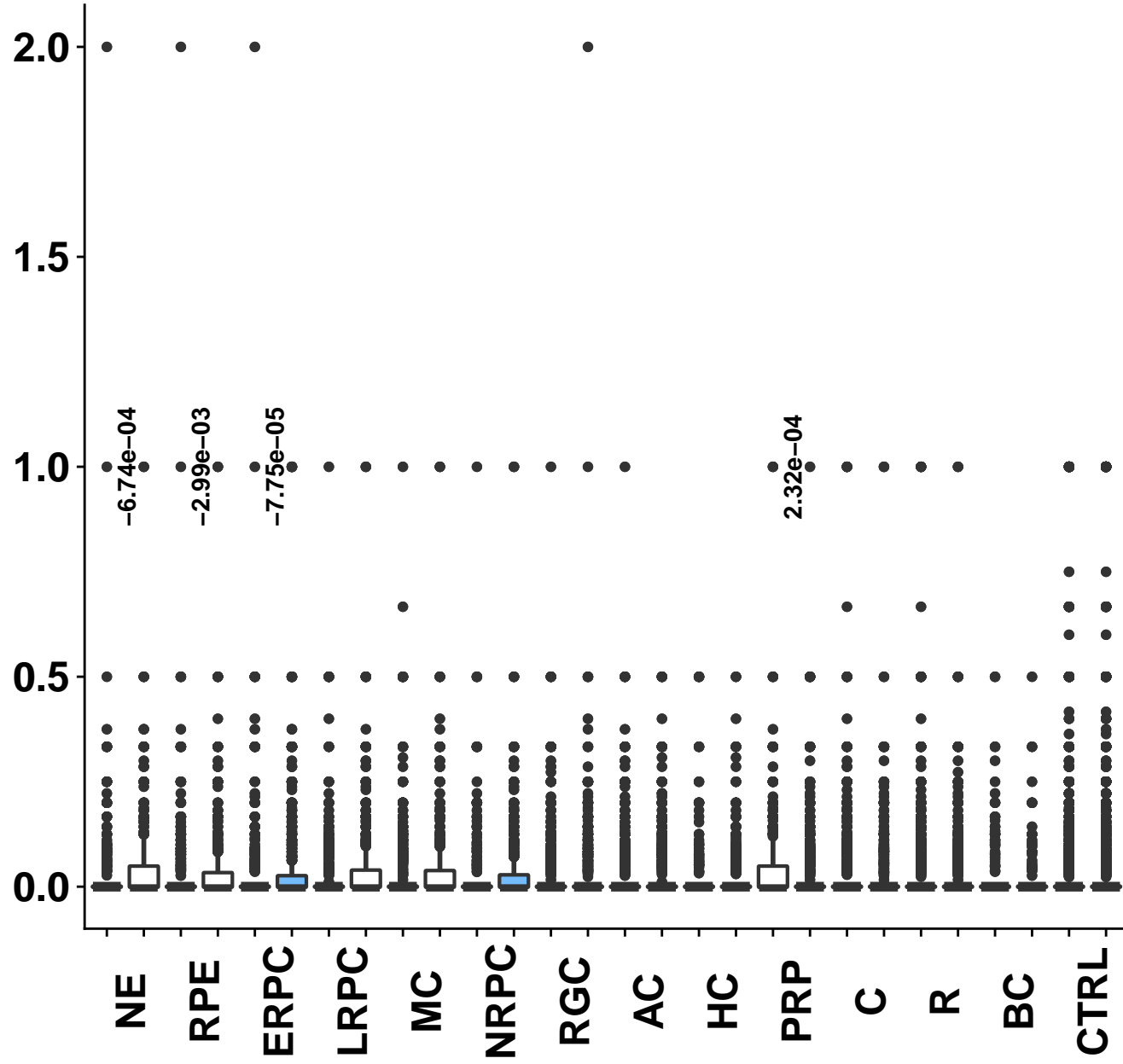
Tgif2_1_mean



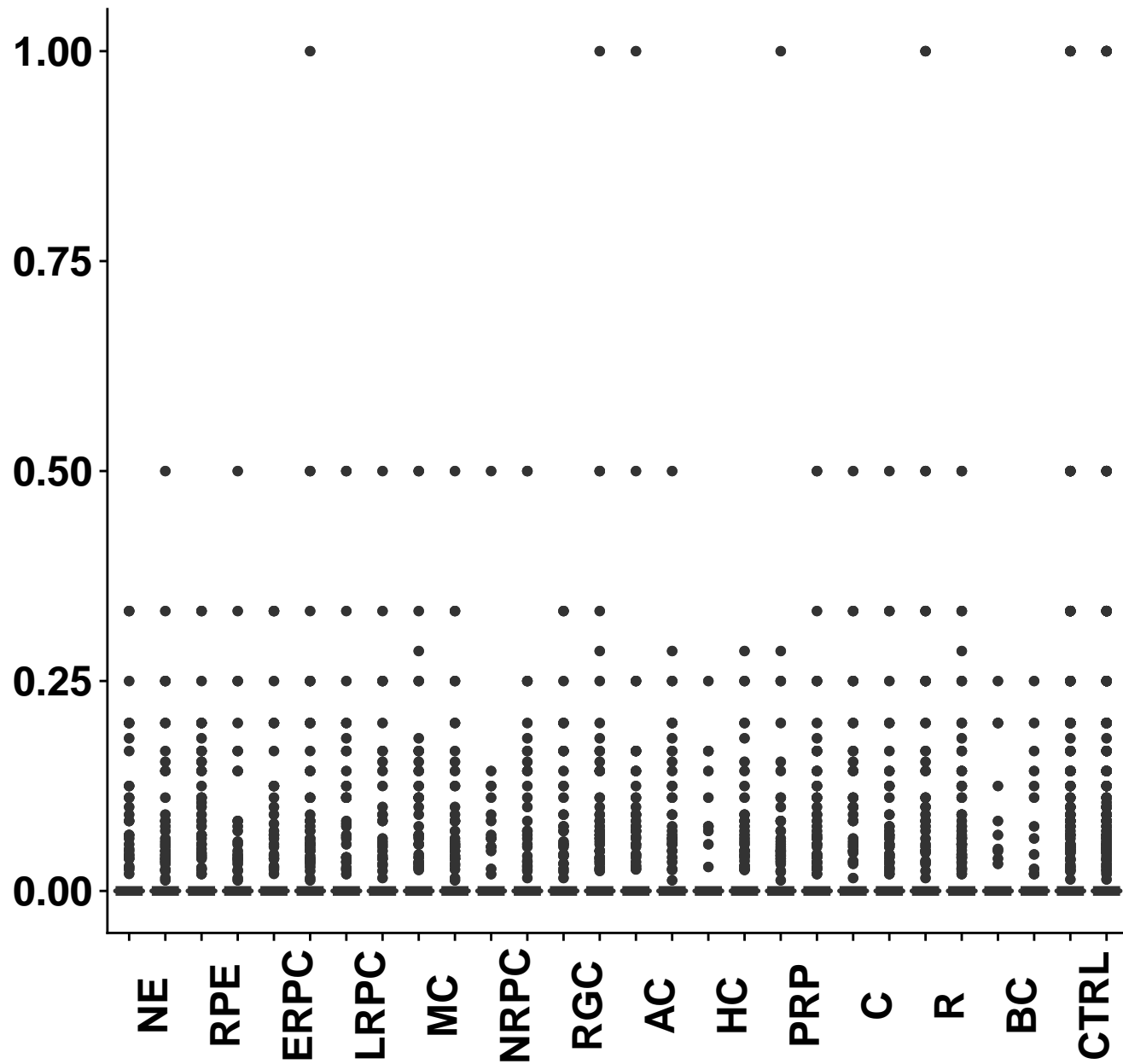
Tgif2_2_mean



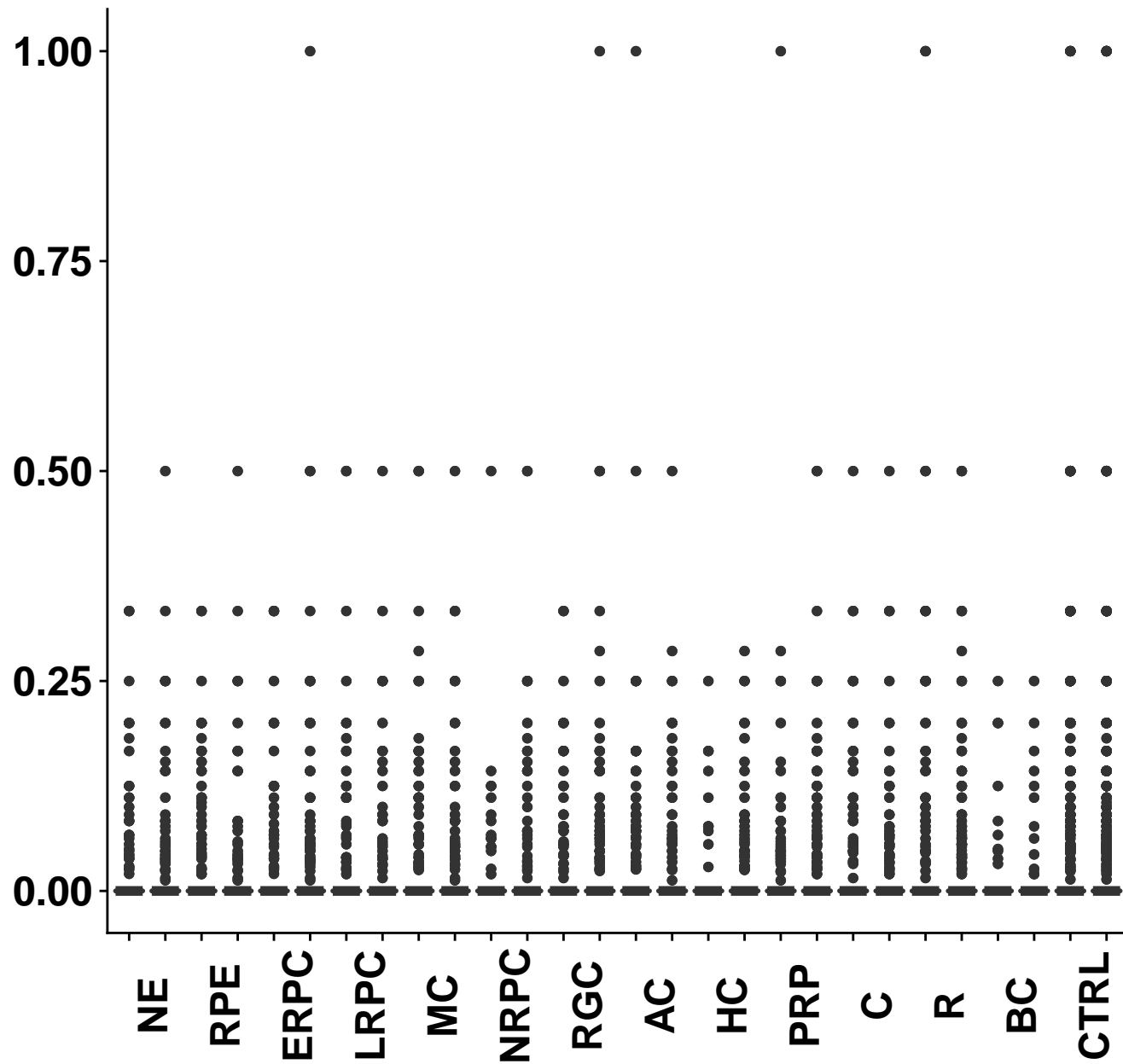
Tgif2_3_mean



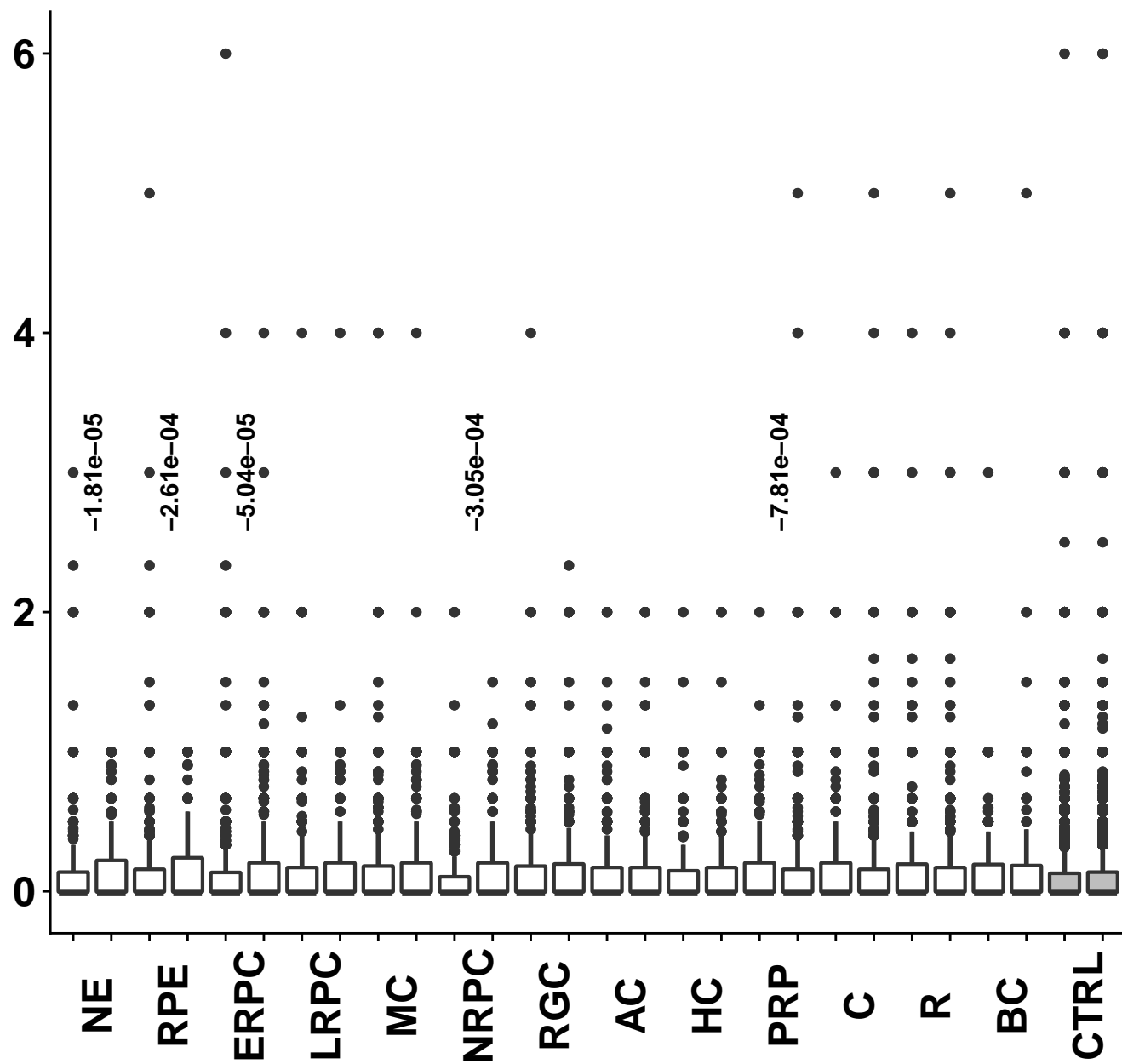
Six3_1_mean



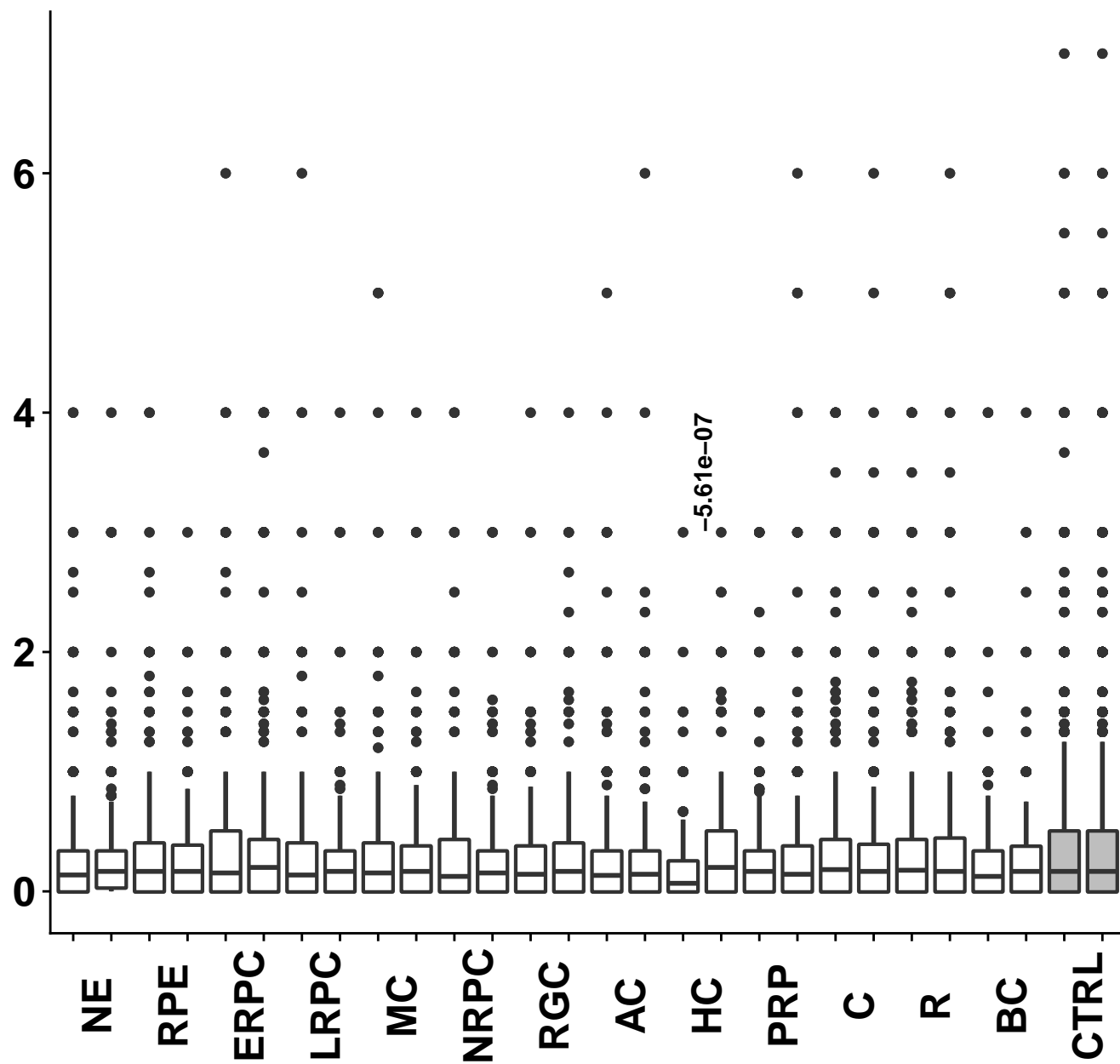
Six3_2_mean



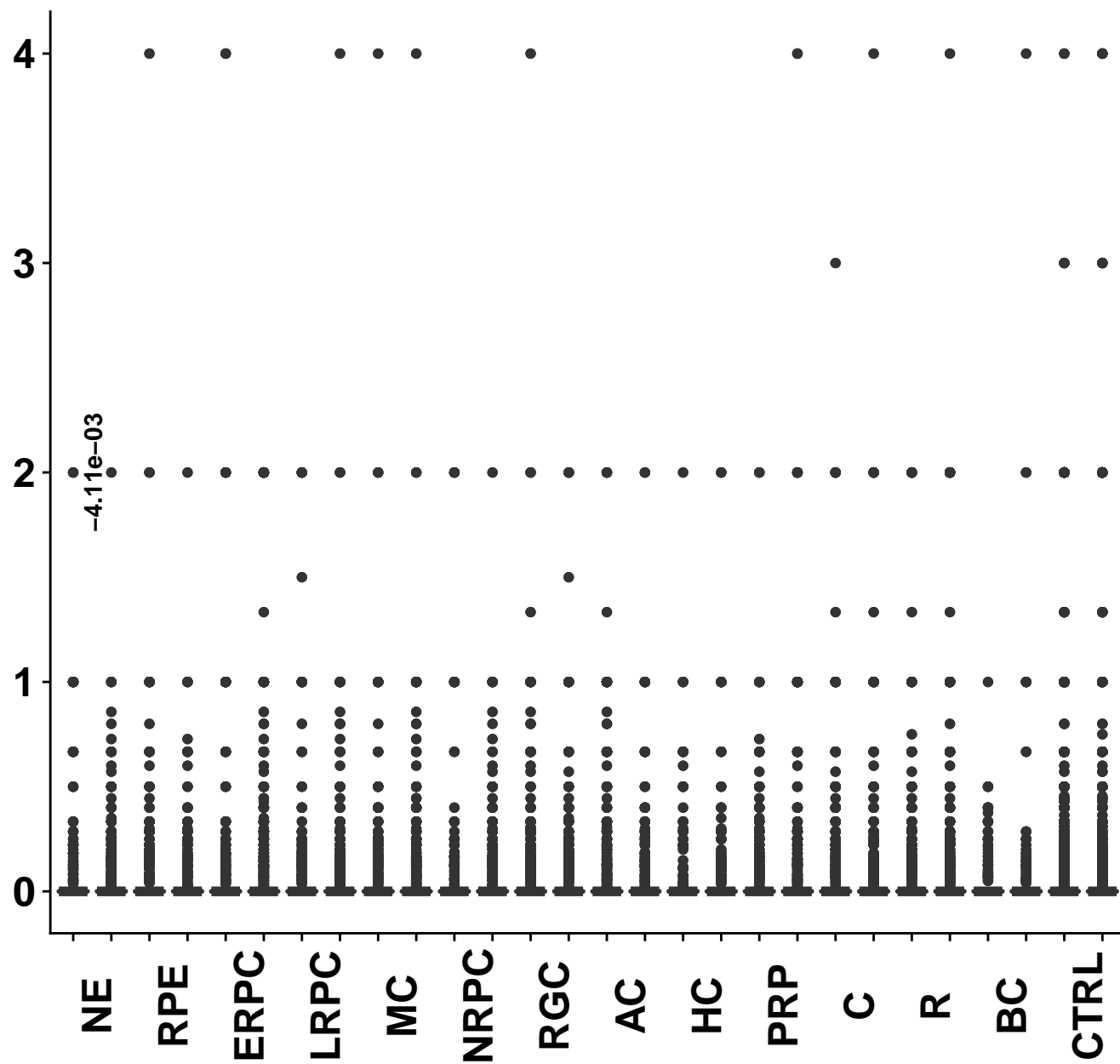
Atf1_1_mean



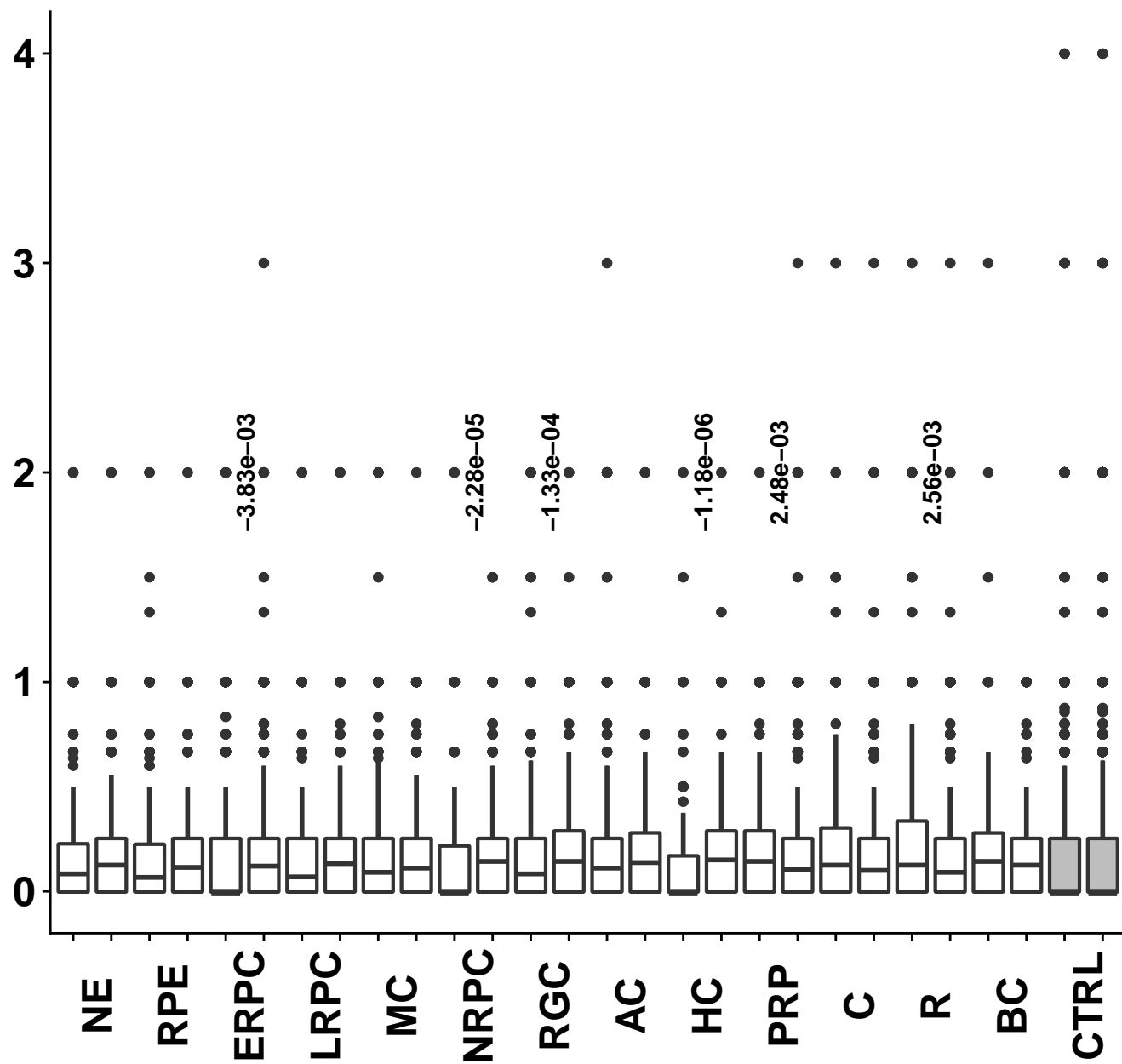
Atf1_2_mean



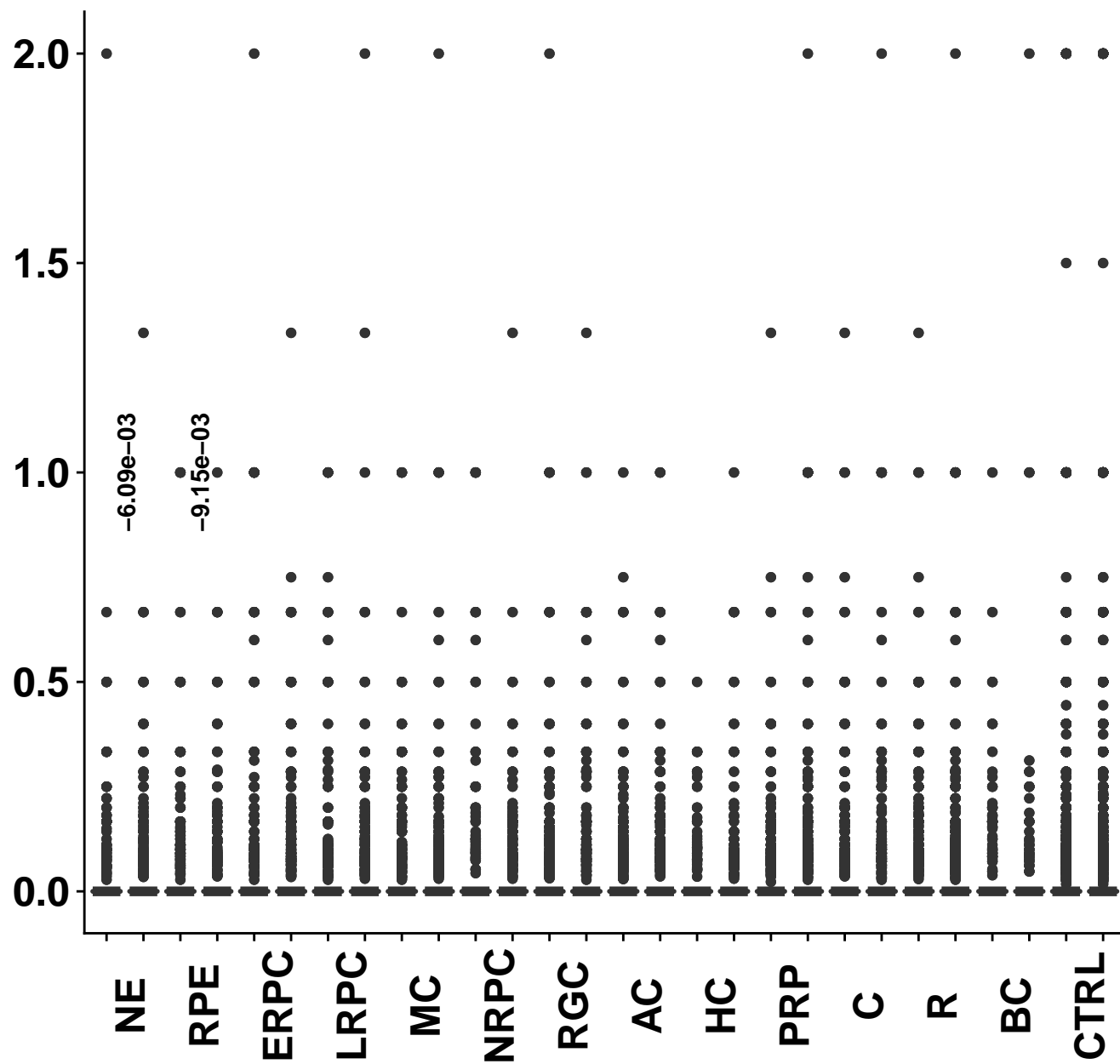
Atf1_3_mean



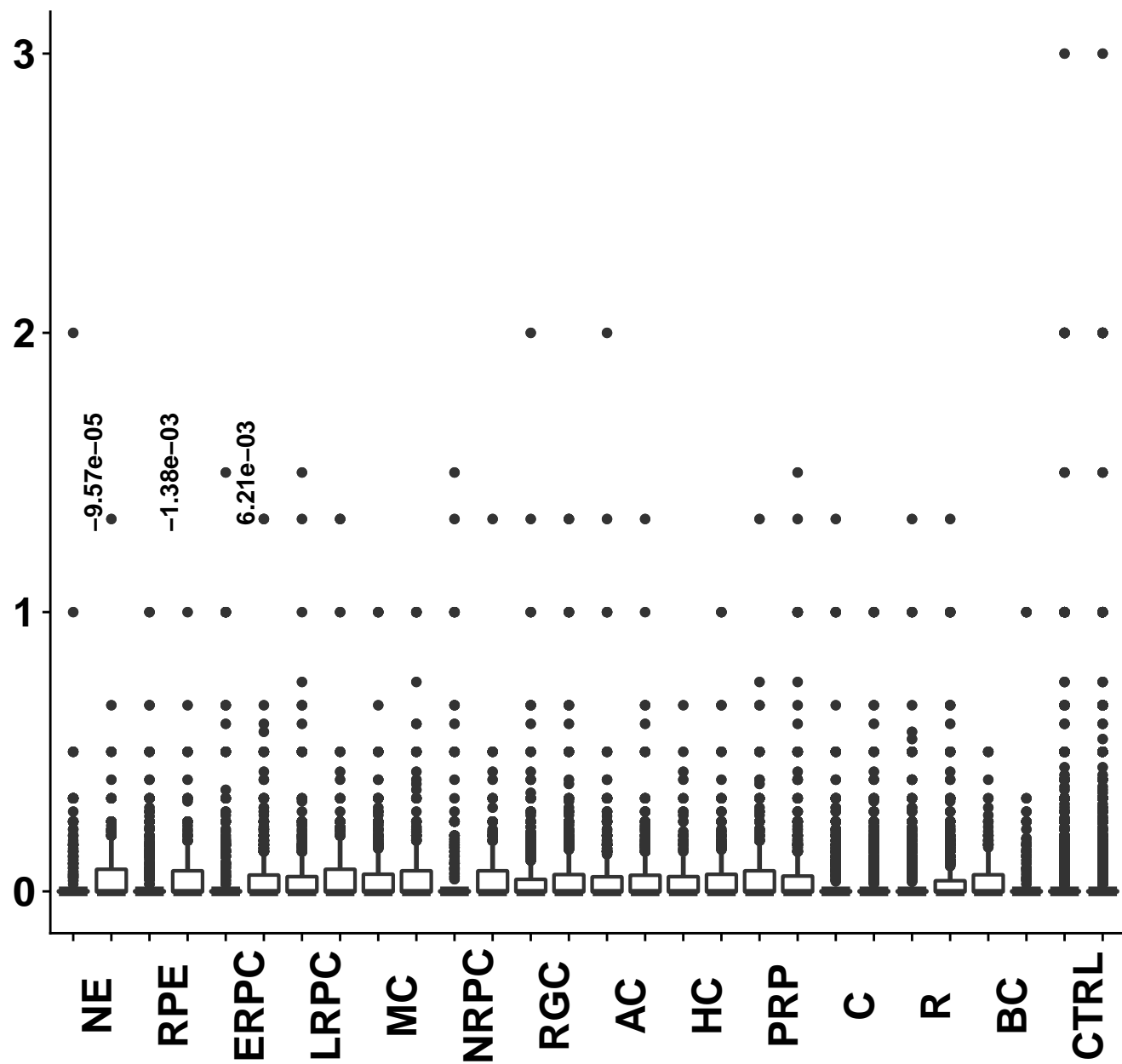
Atf1_4_mean



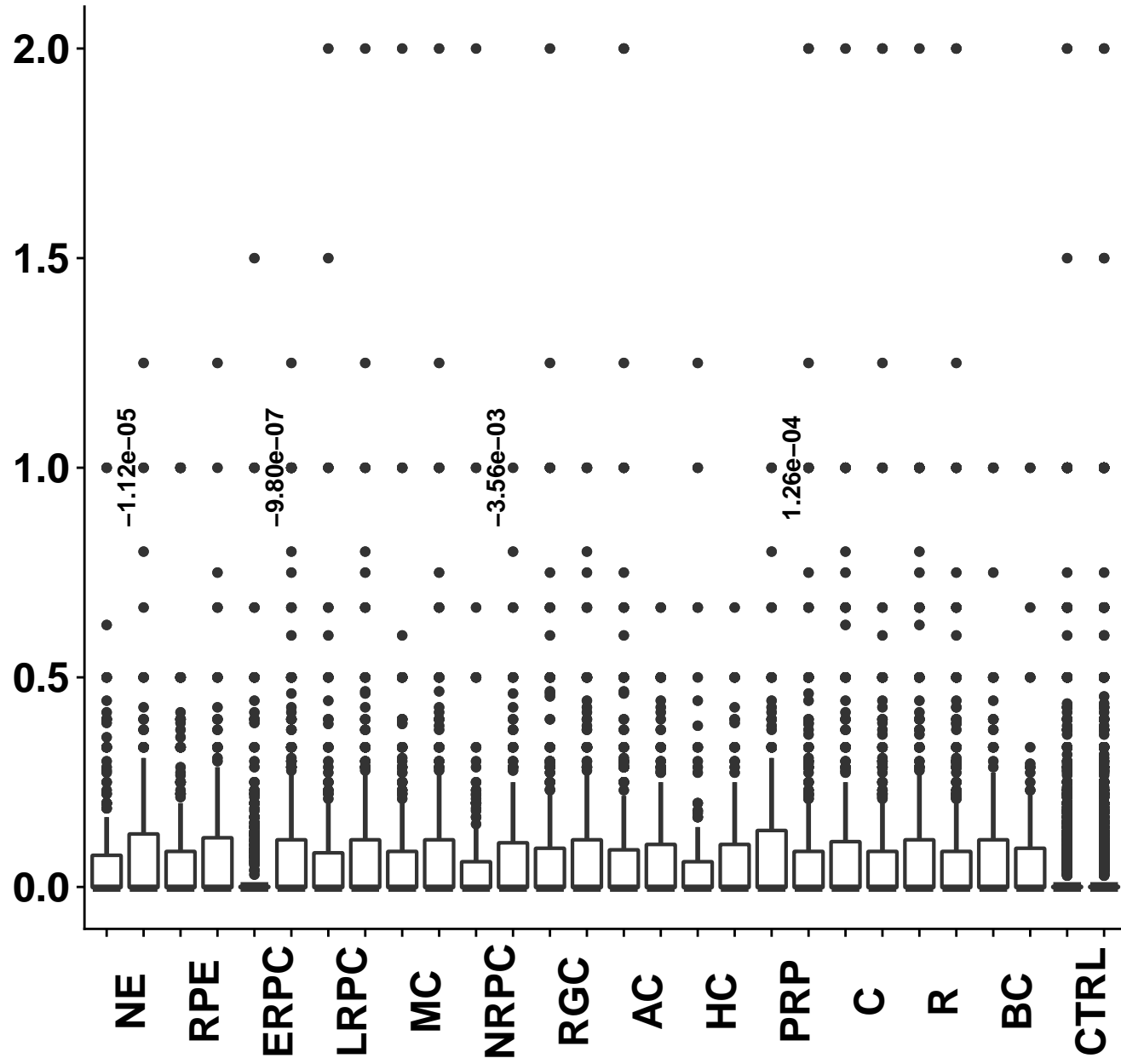
Cux1_1_mean



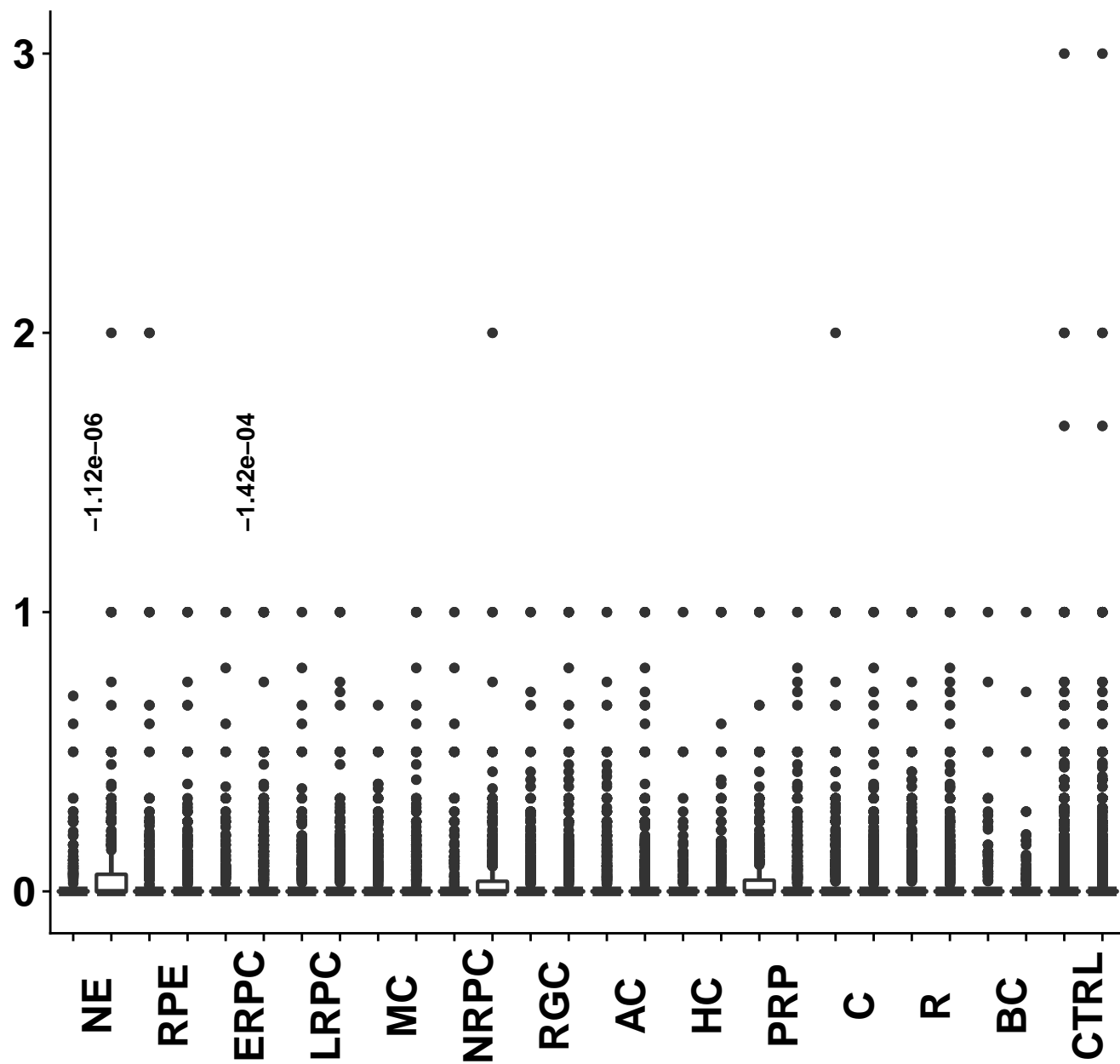
Cux1_2_mean



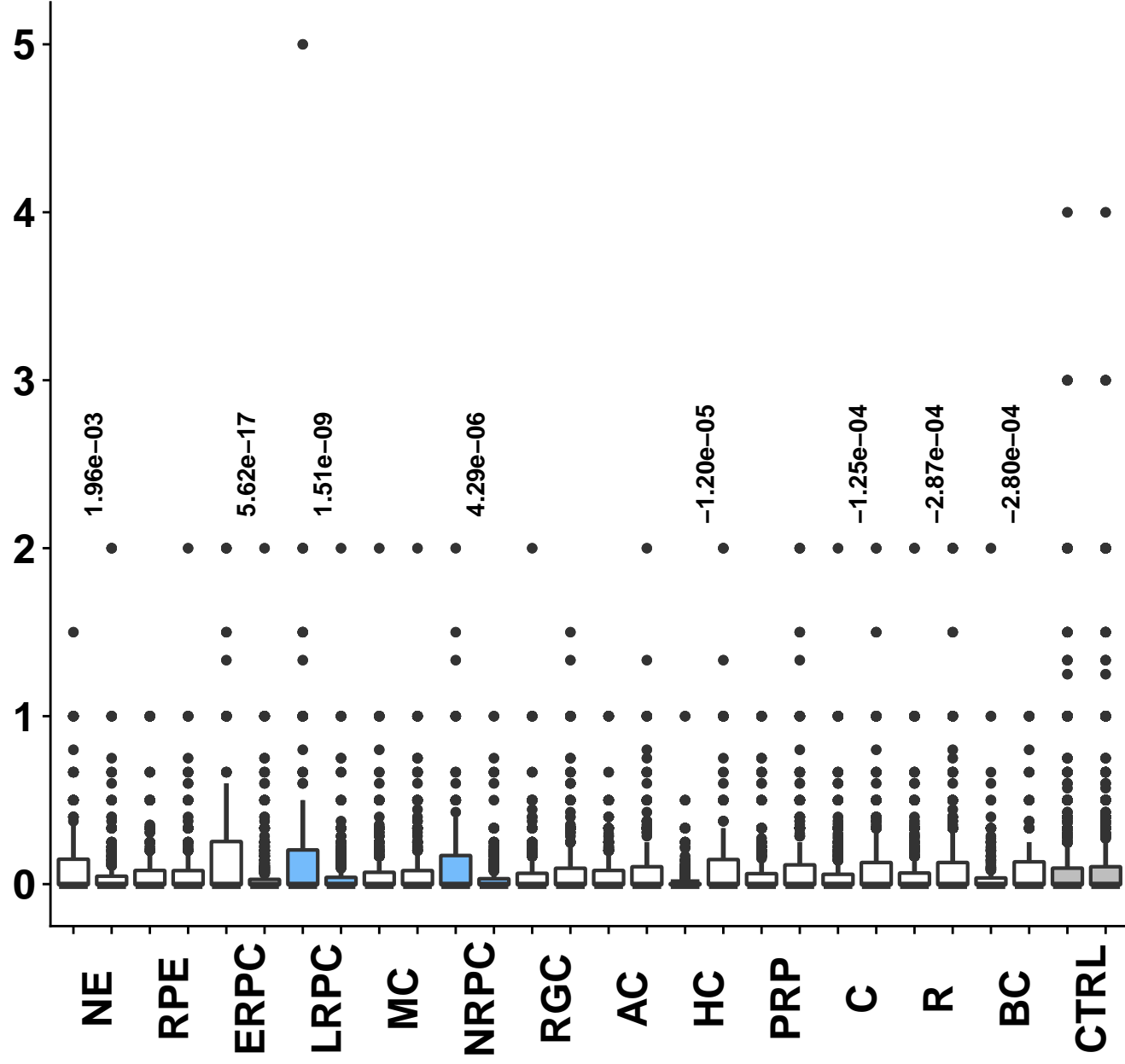
Cux1_3_mean



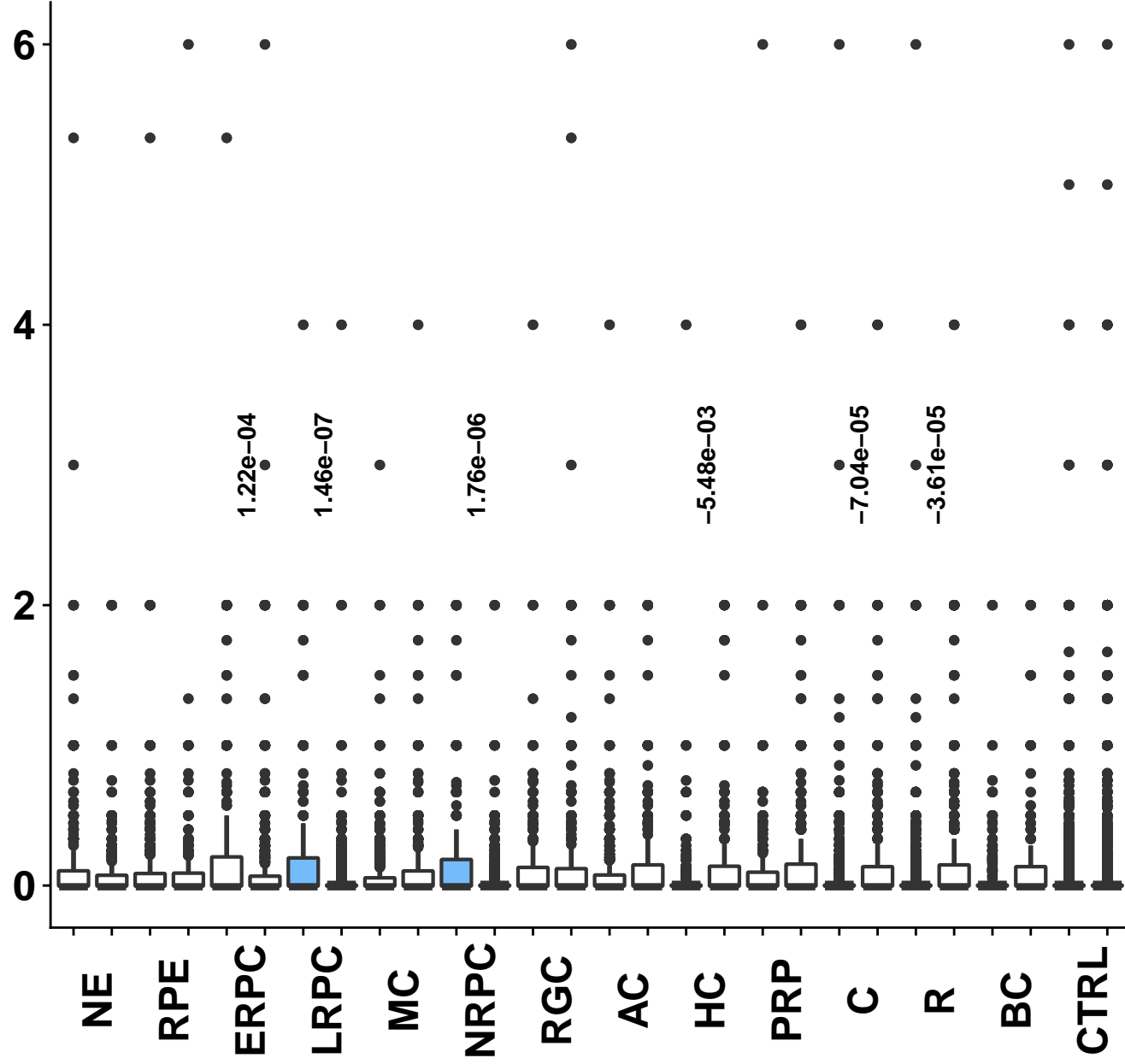
Cux1_4_mean



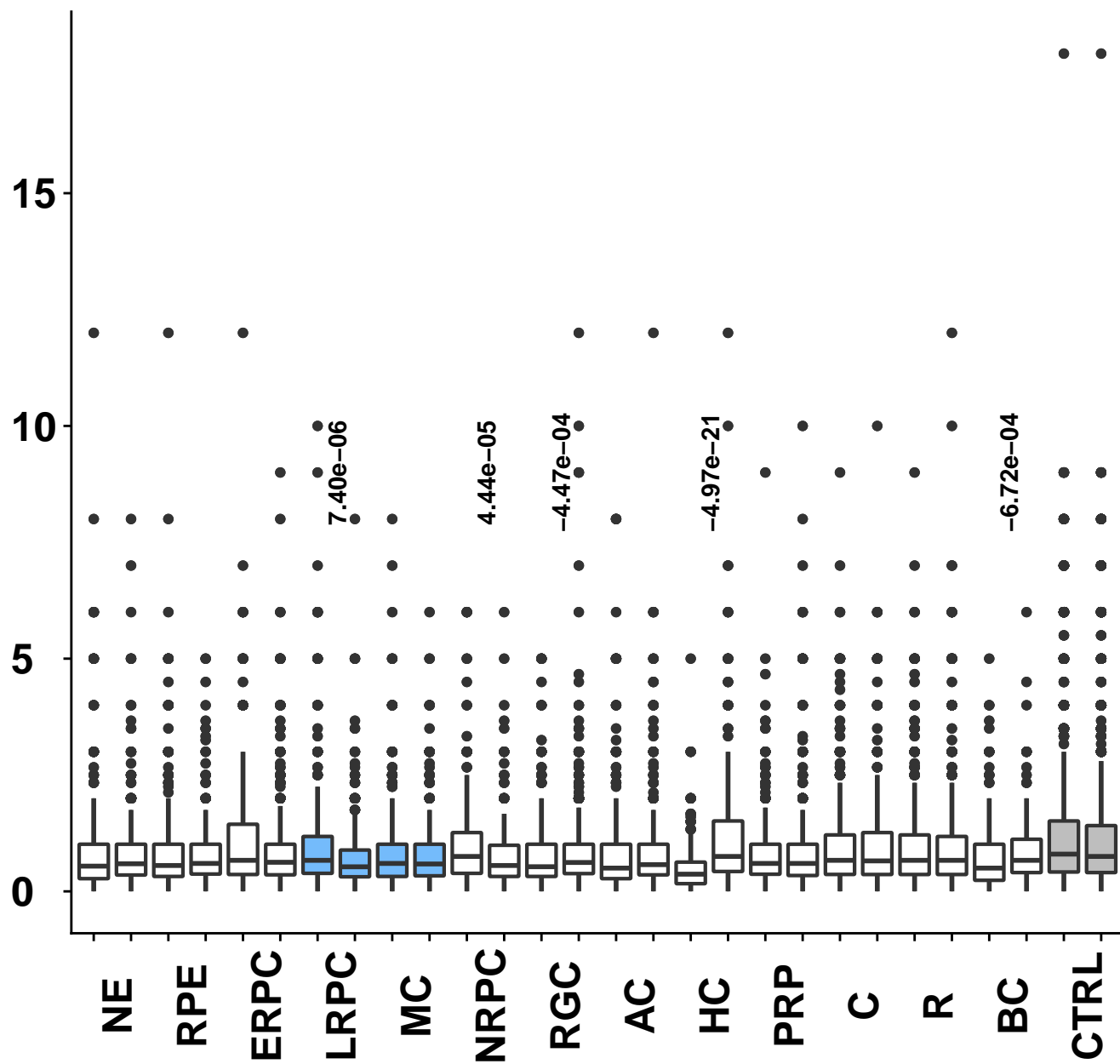
E2f1_1_mean



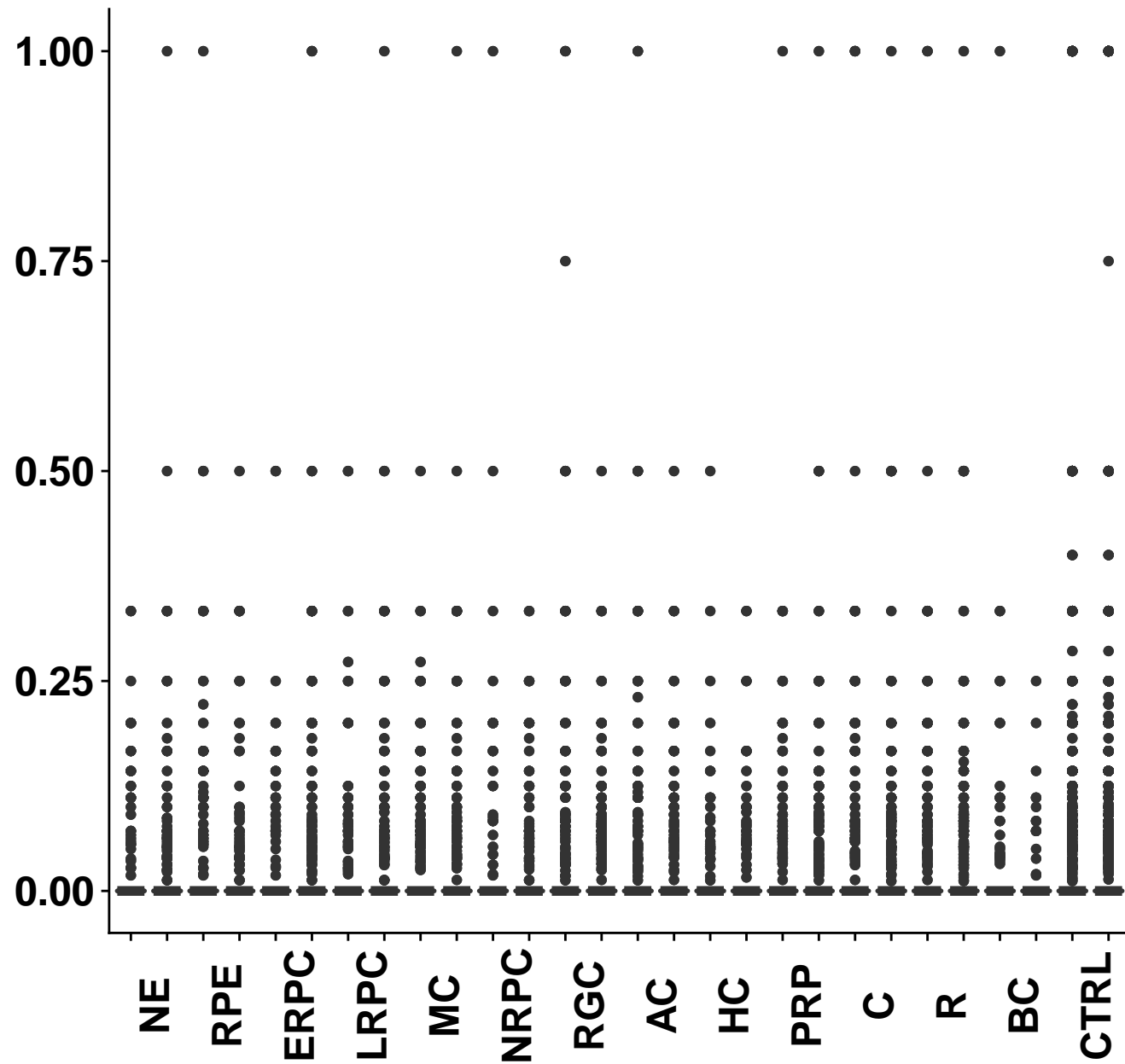
E2f1_2_mean



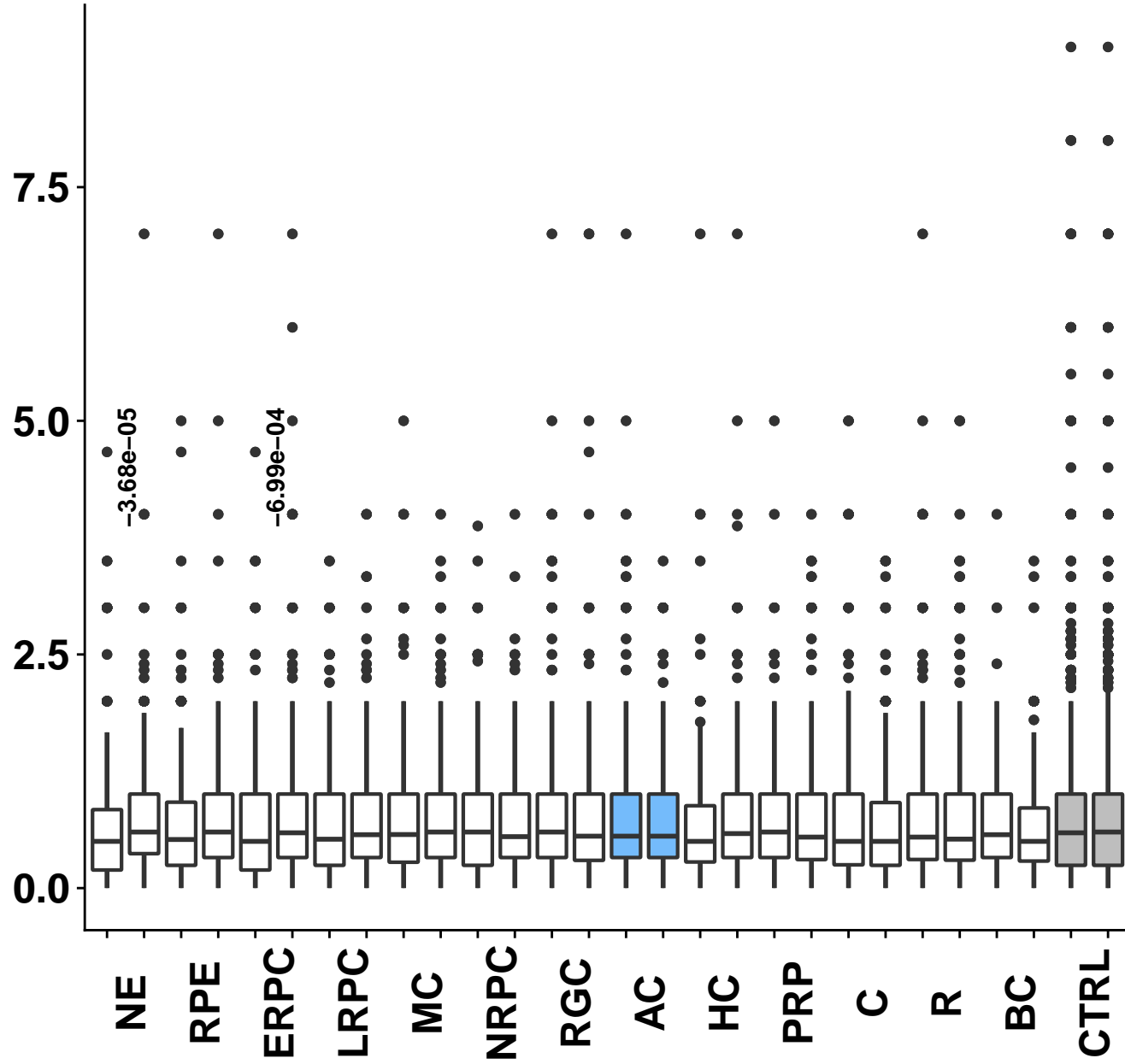
Etv5_1_mean



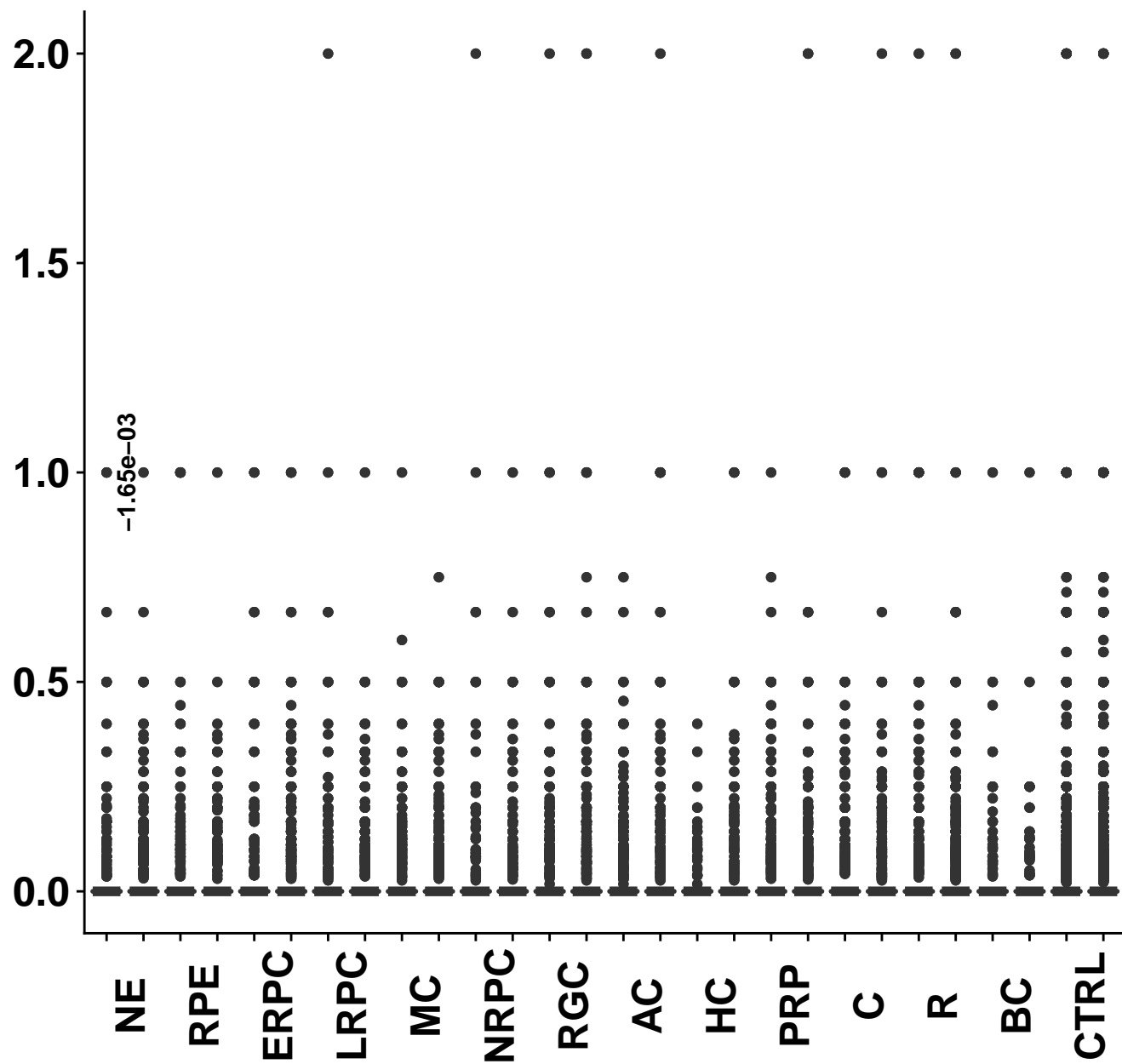
Gli3_1_mean



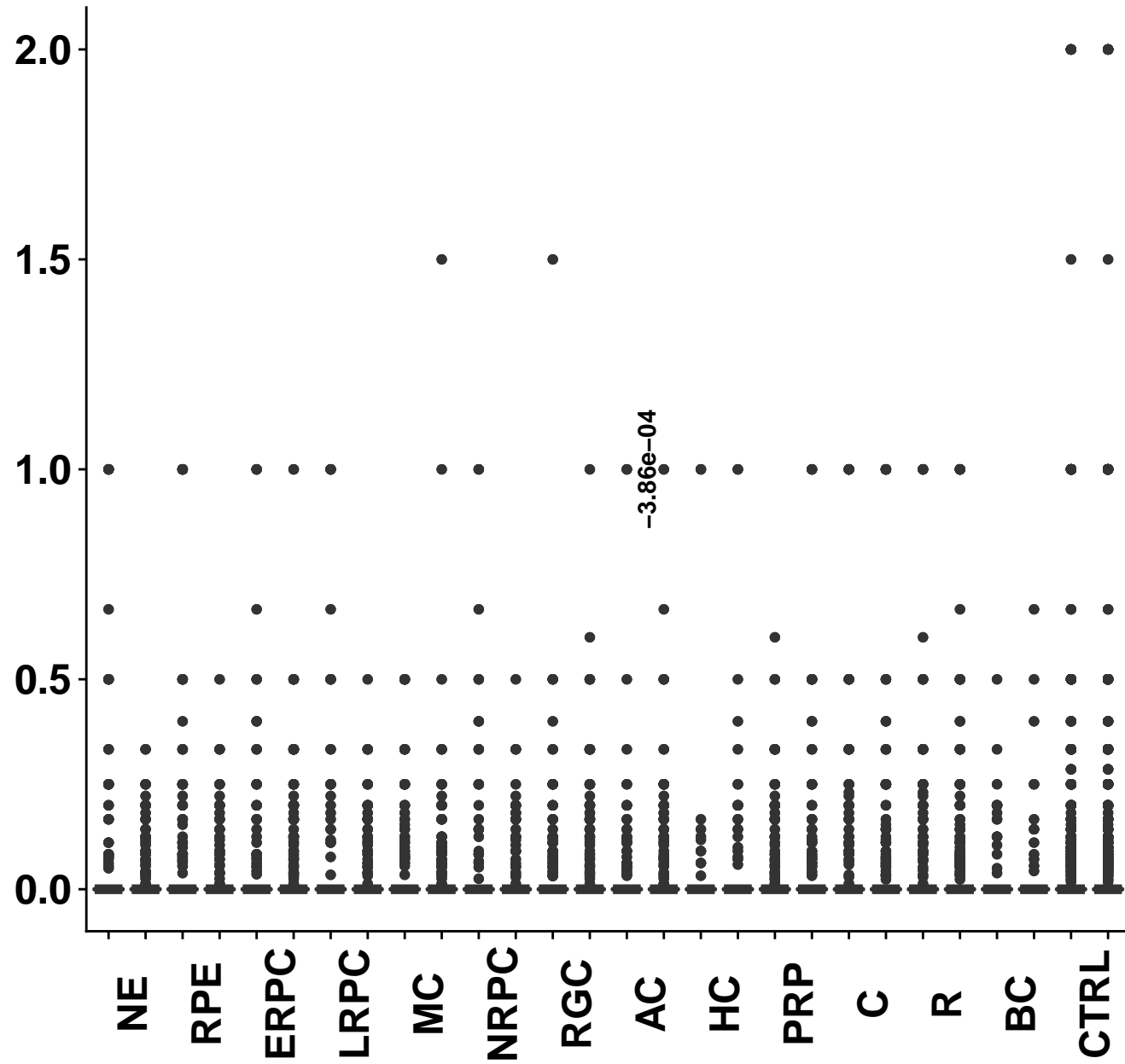
Id4_1_mean



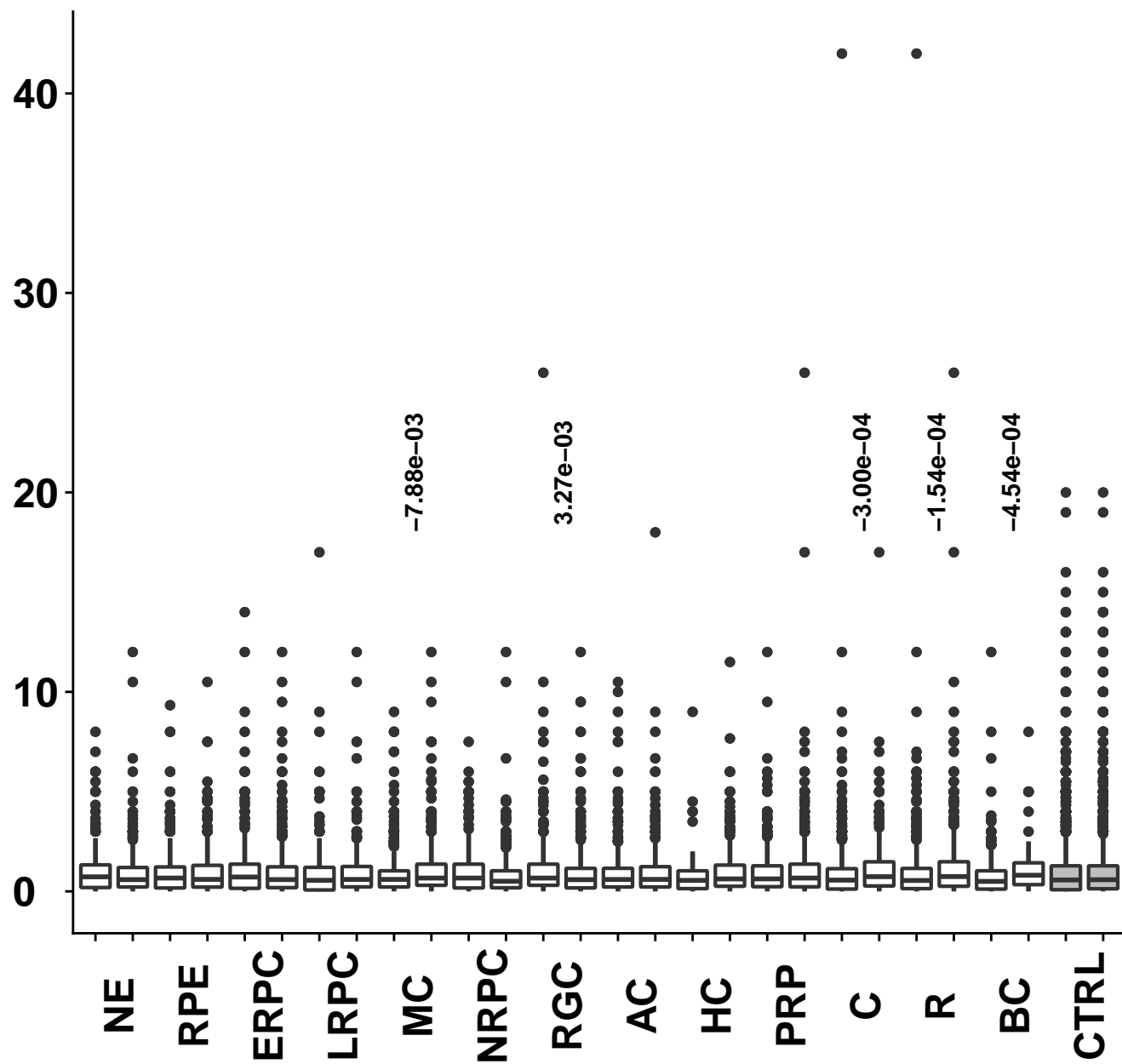
Irx5_1_mean



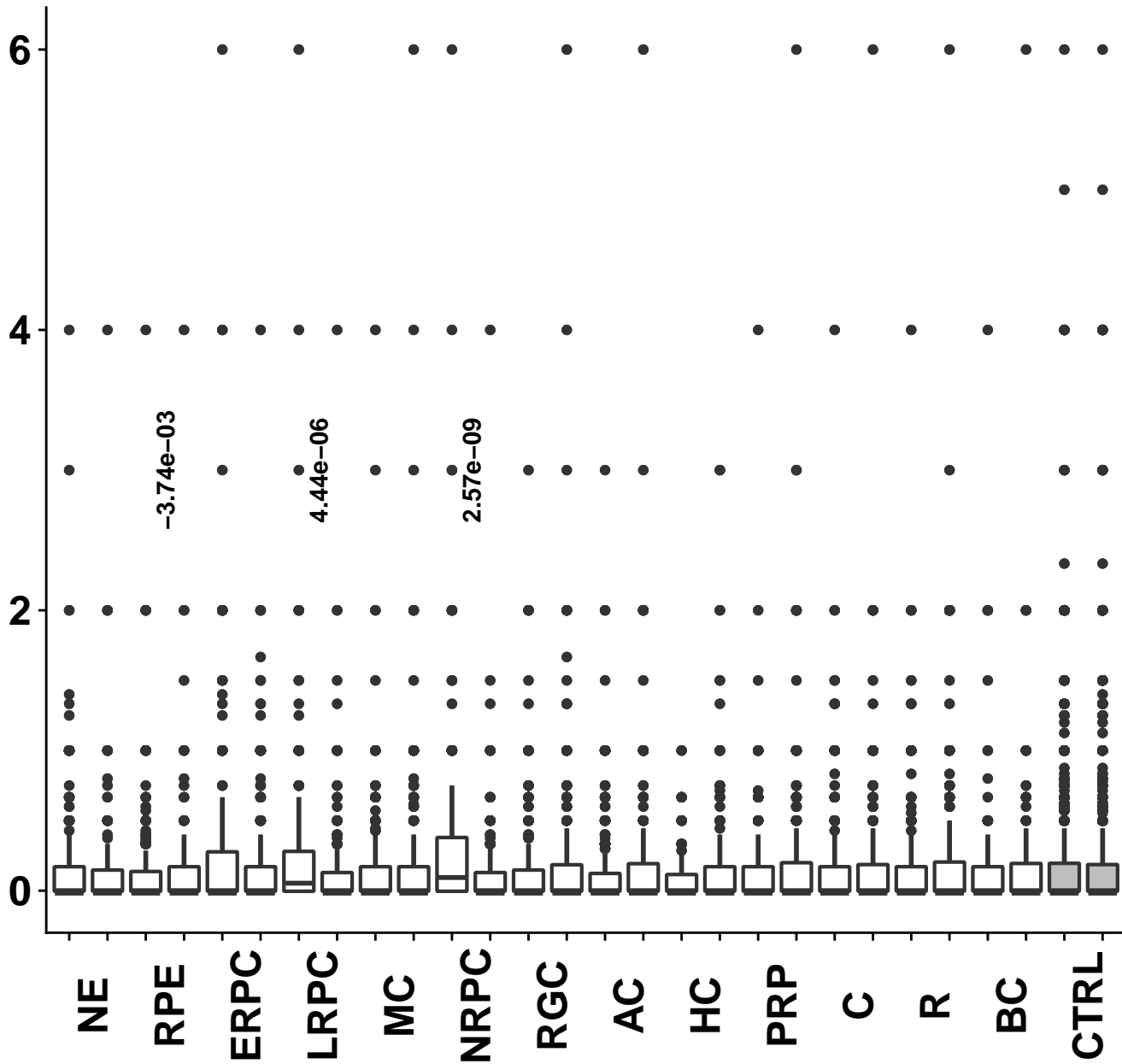
Klf13_1_mean



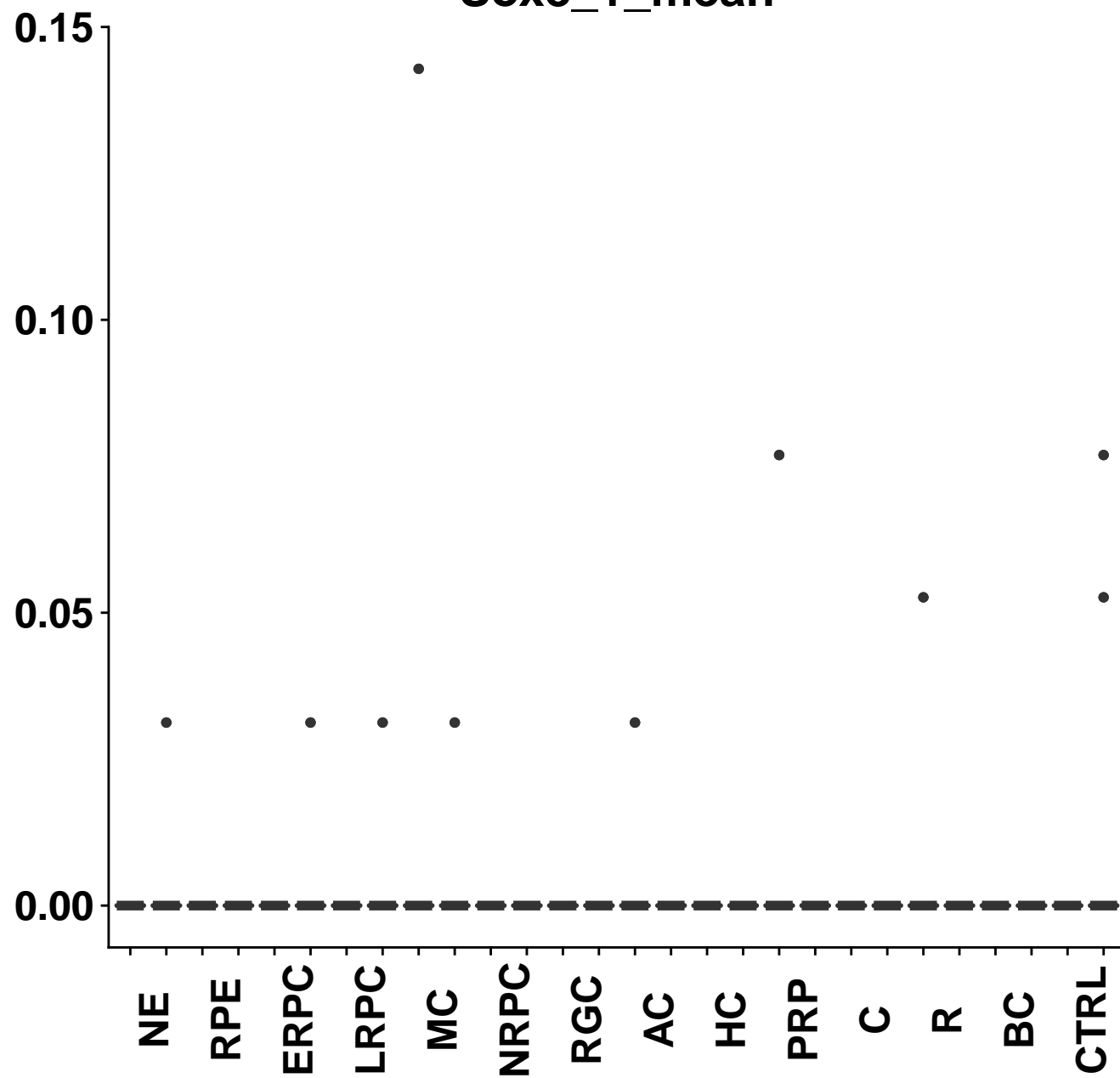
Maz_1_mean



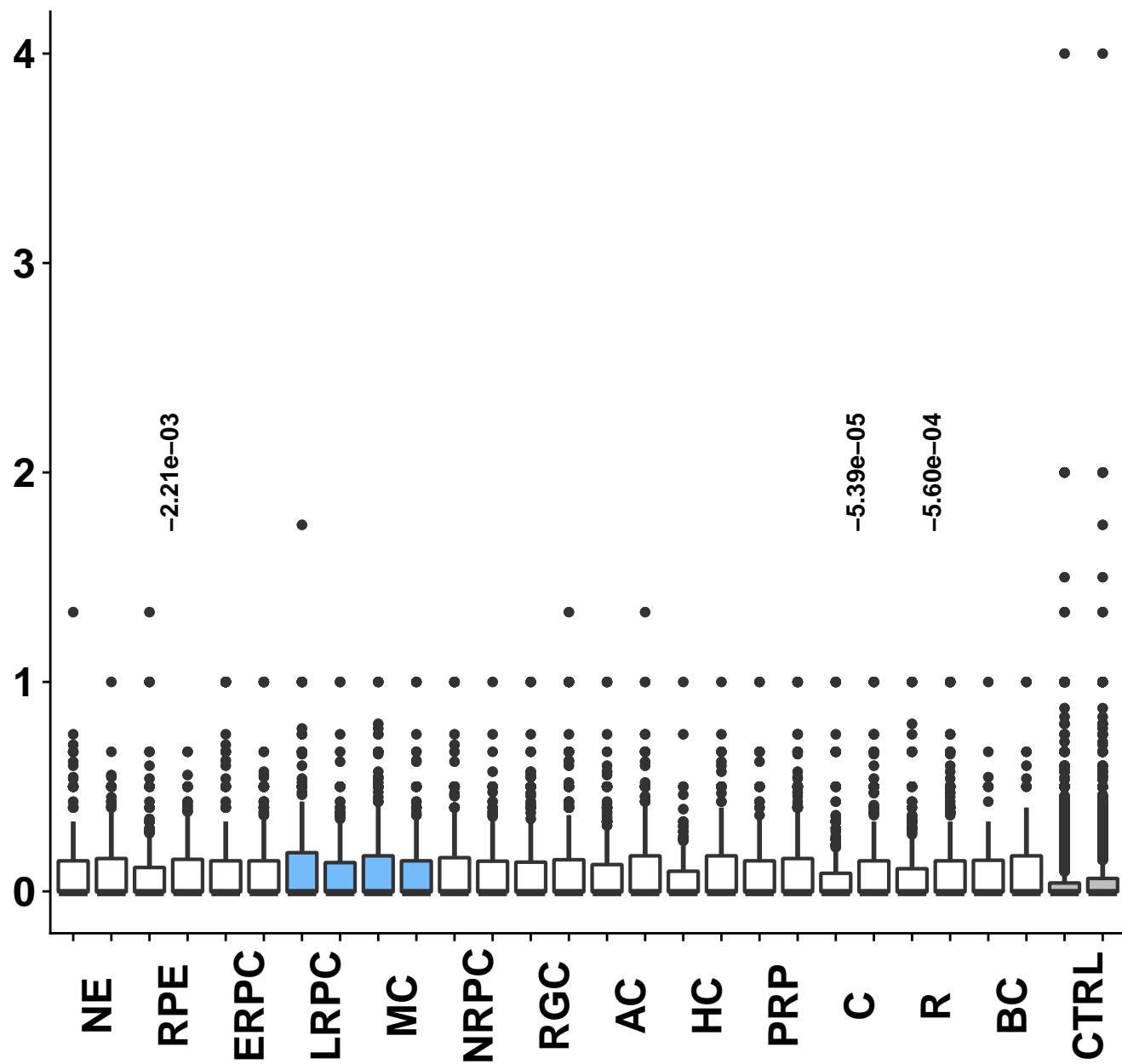
Nfyb_1_mean



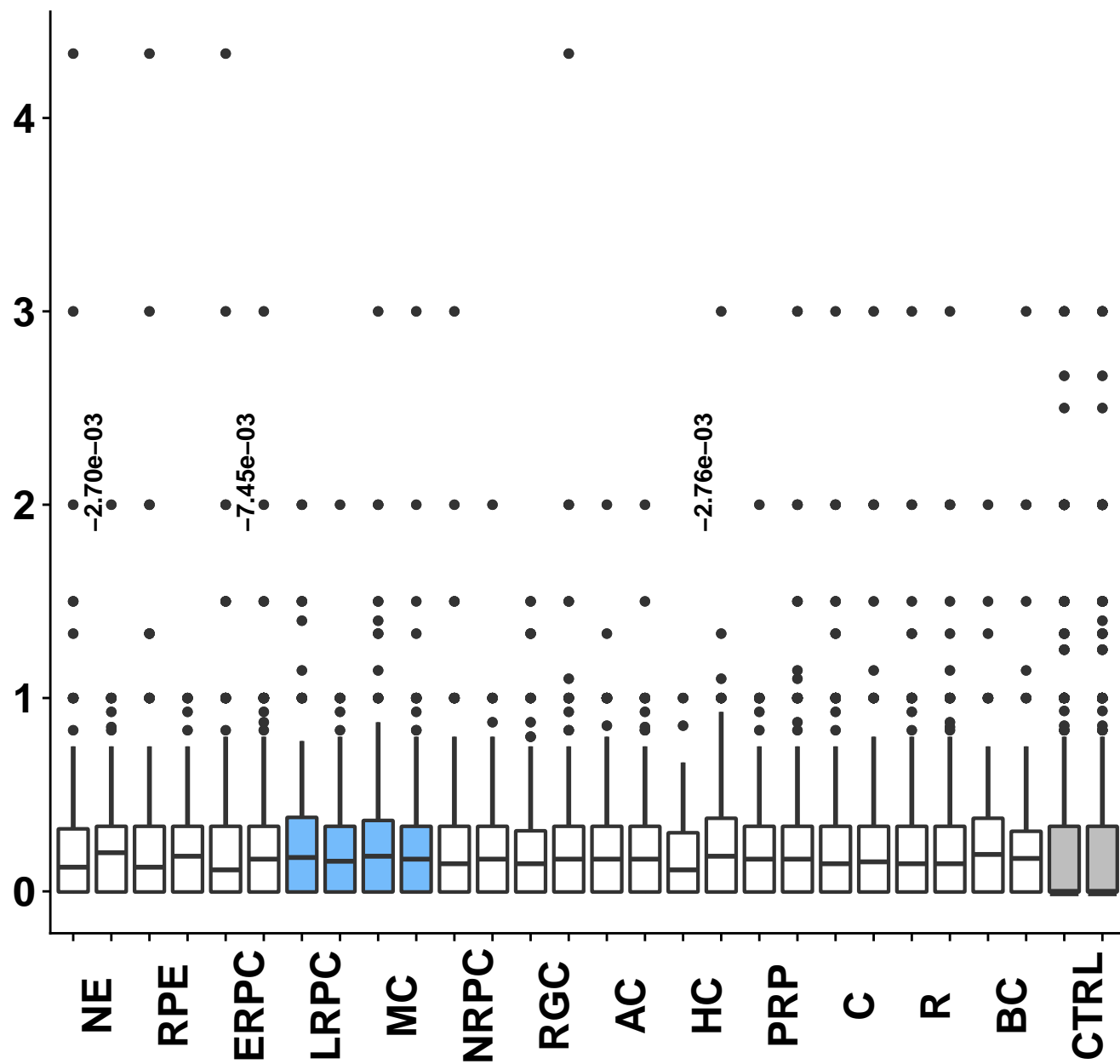
Sox8_1_mean



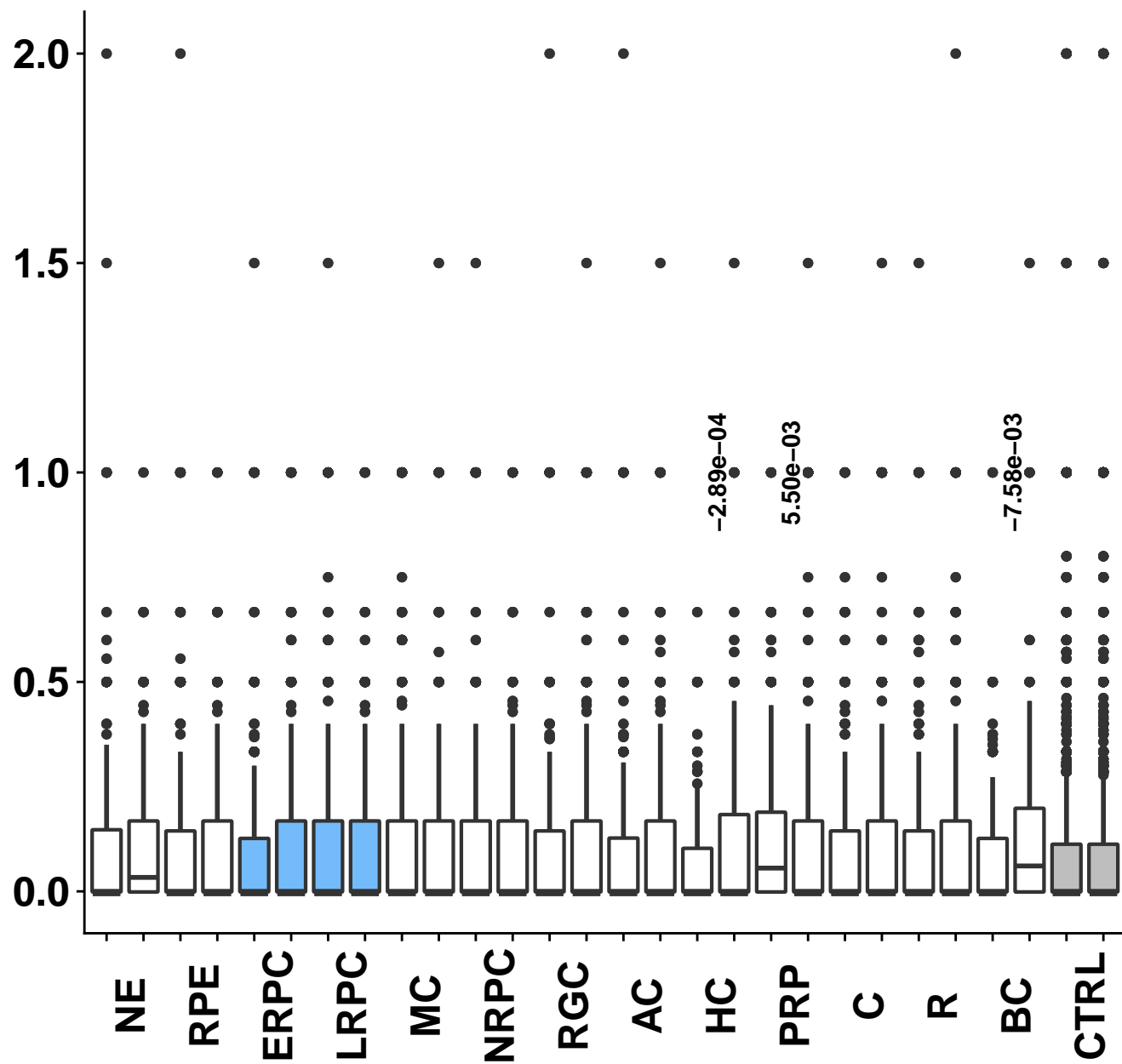
Sox8_2_mean



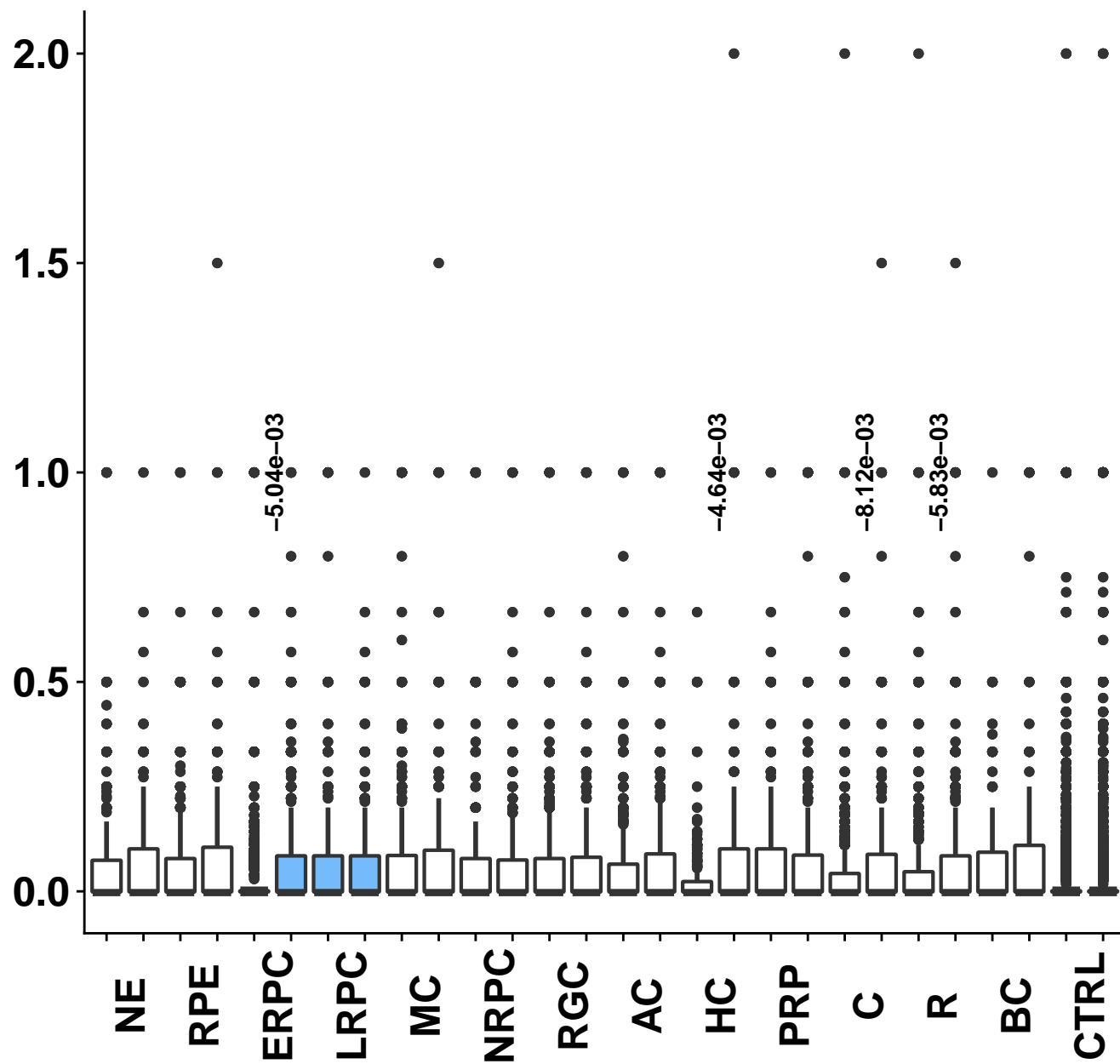
Sox8_3_mean



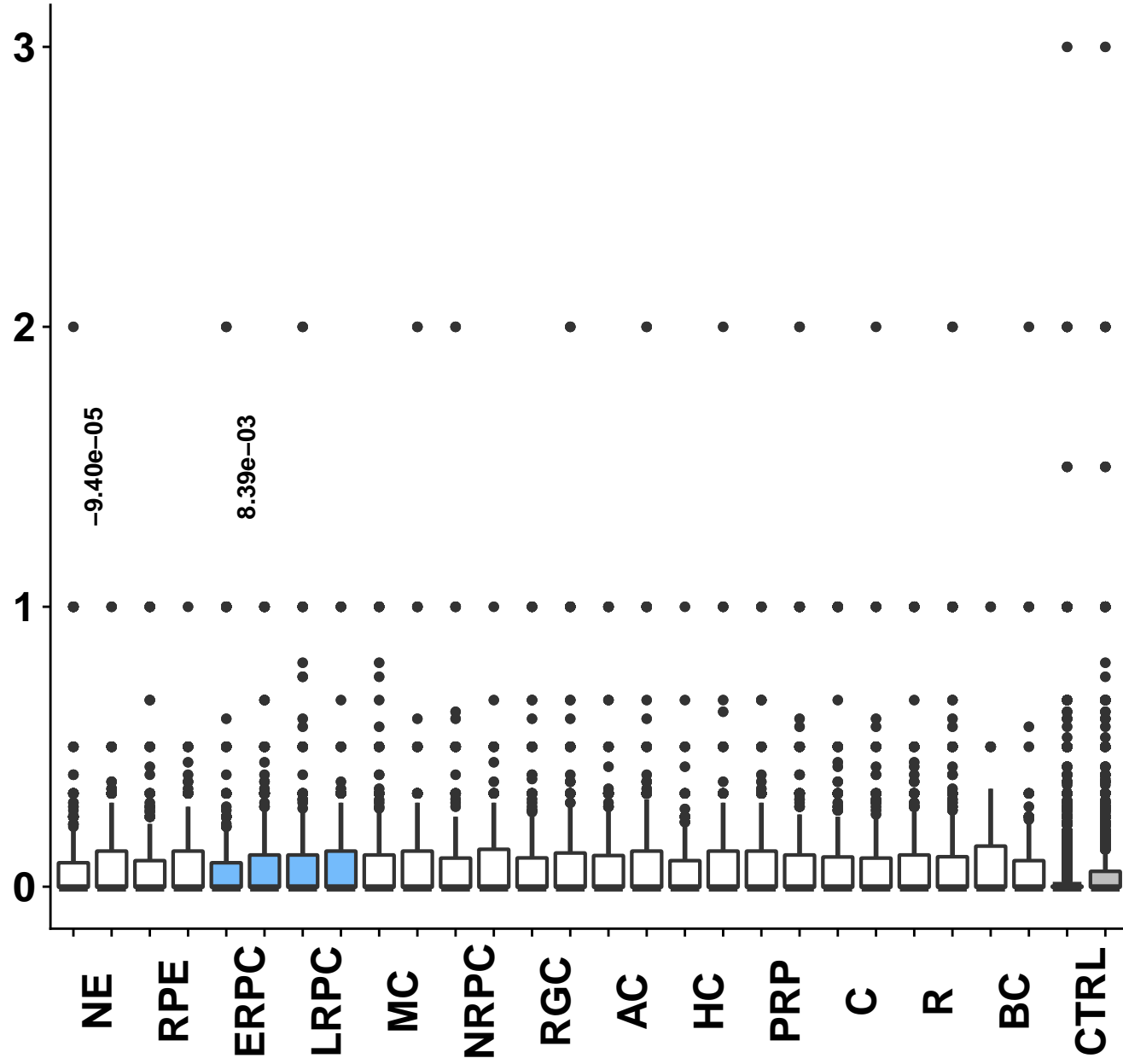
Tcf7l2_2_mean



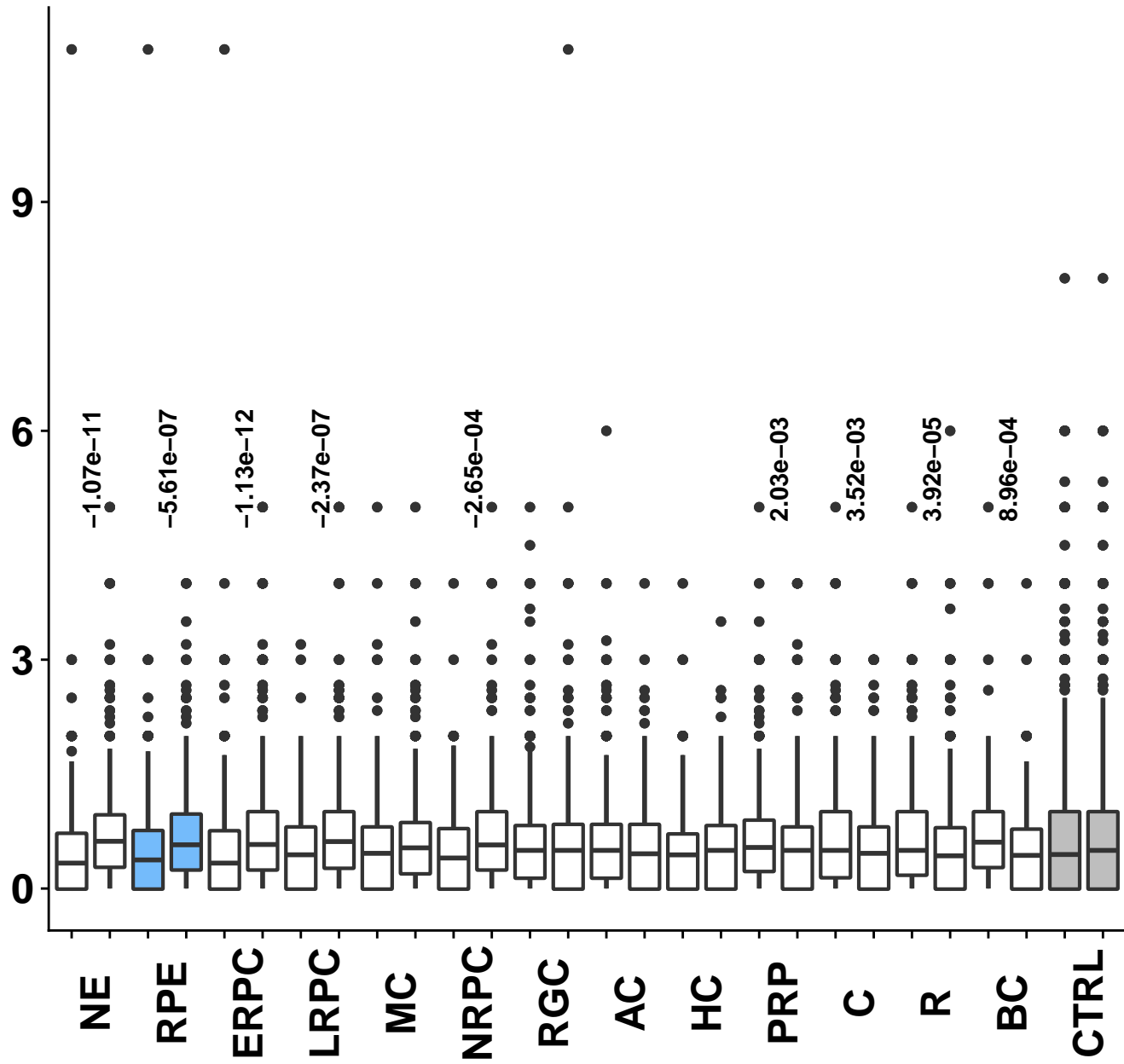
Tcf7l2_3_mean



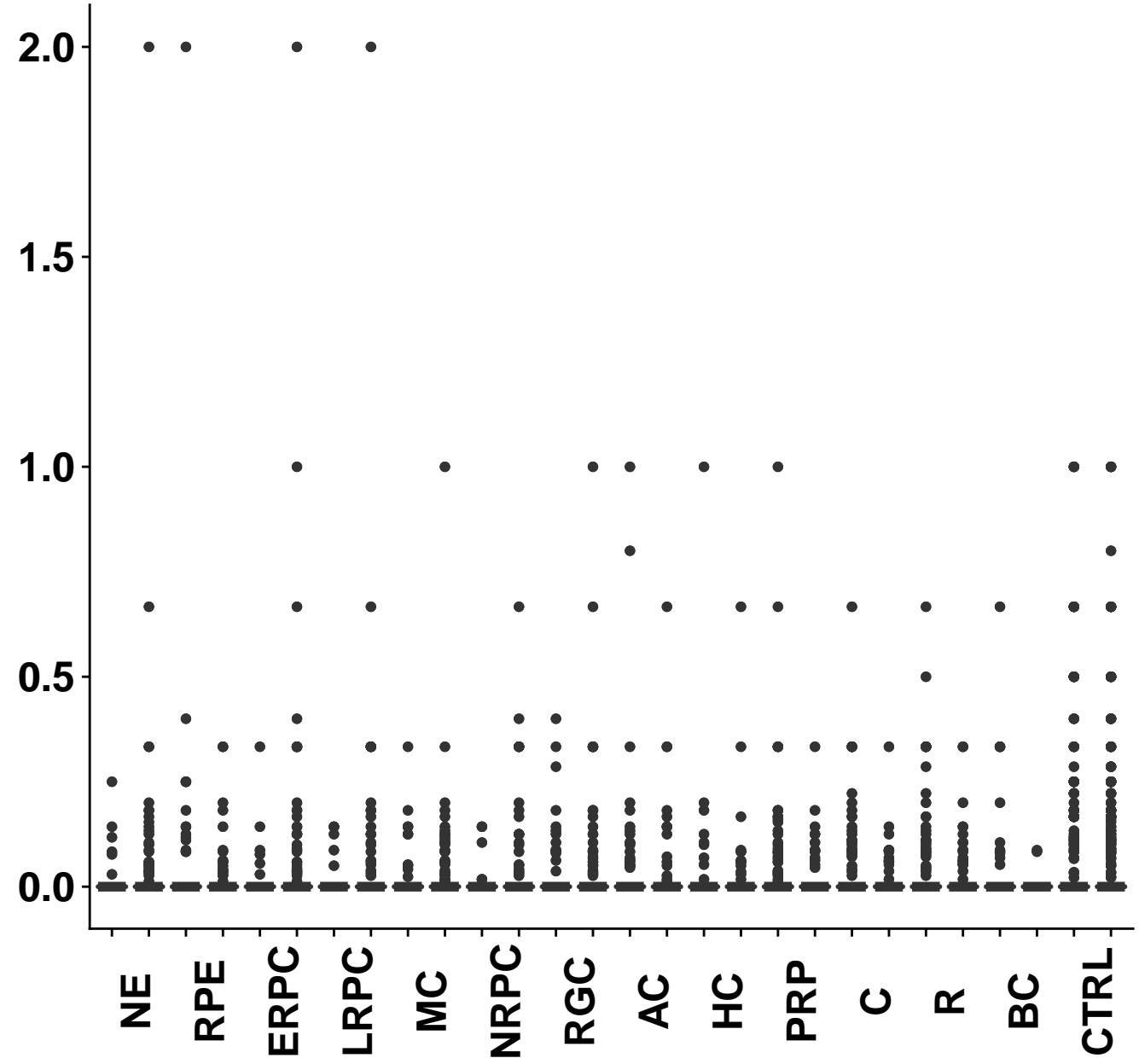
Tcf7l2_4_mean



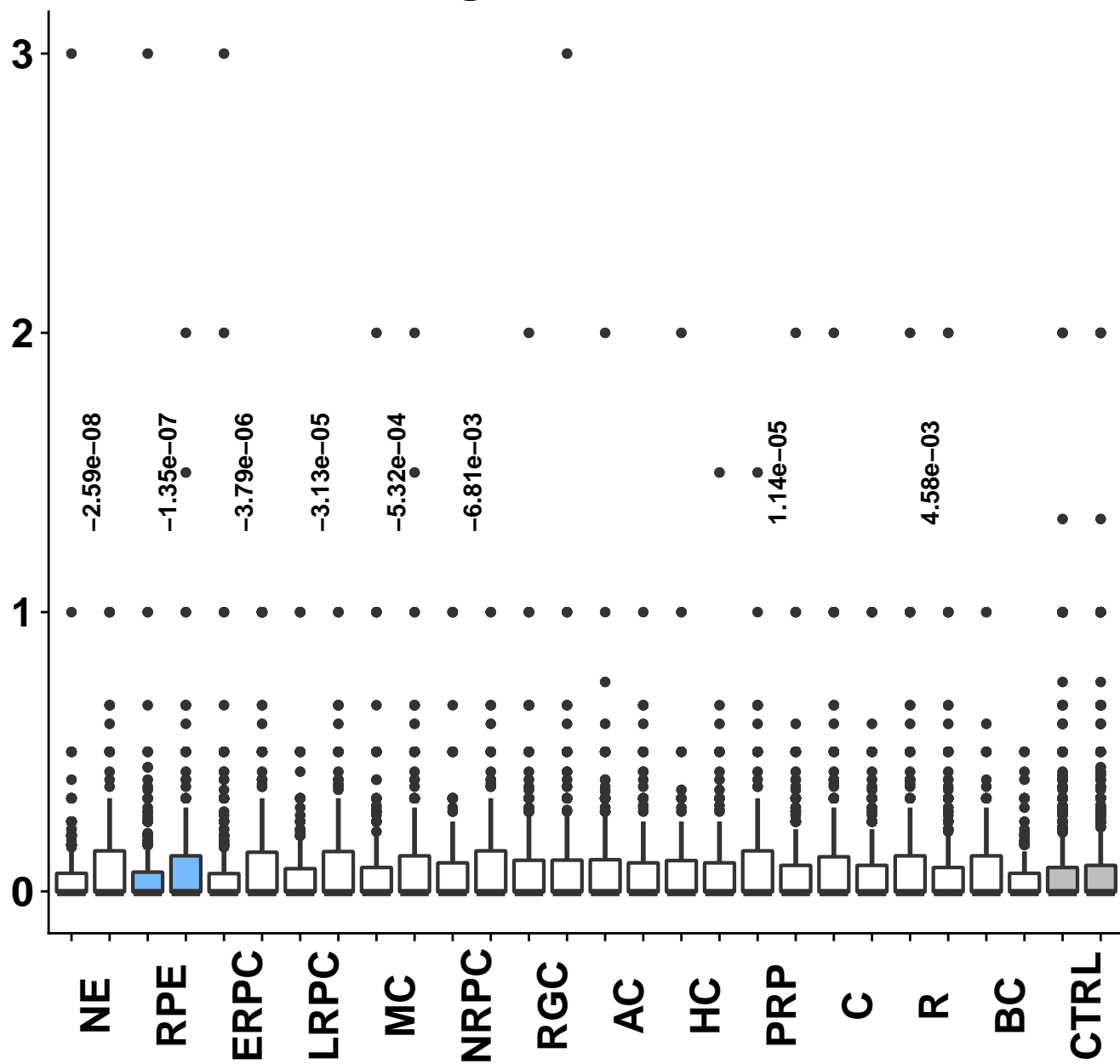
Tgif1_1_mean



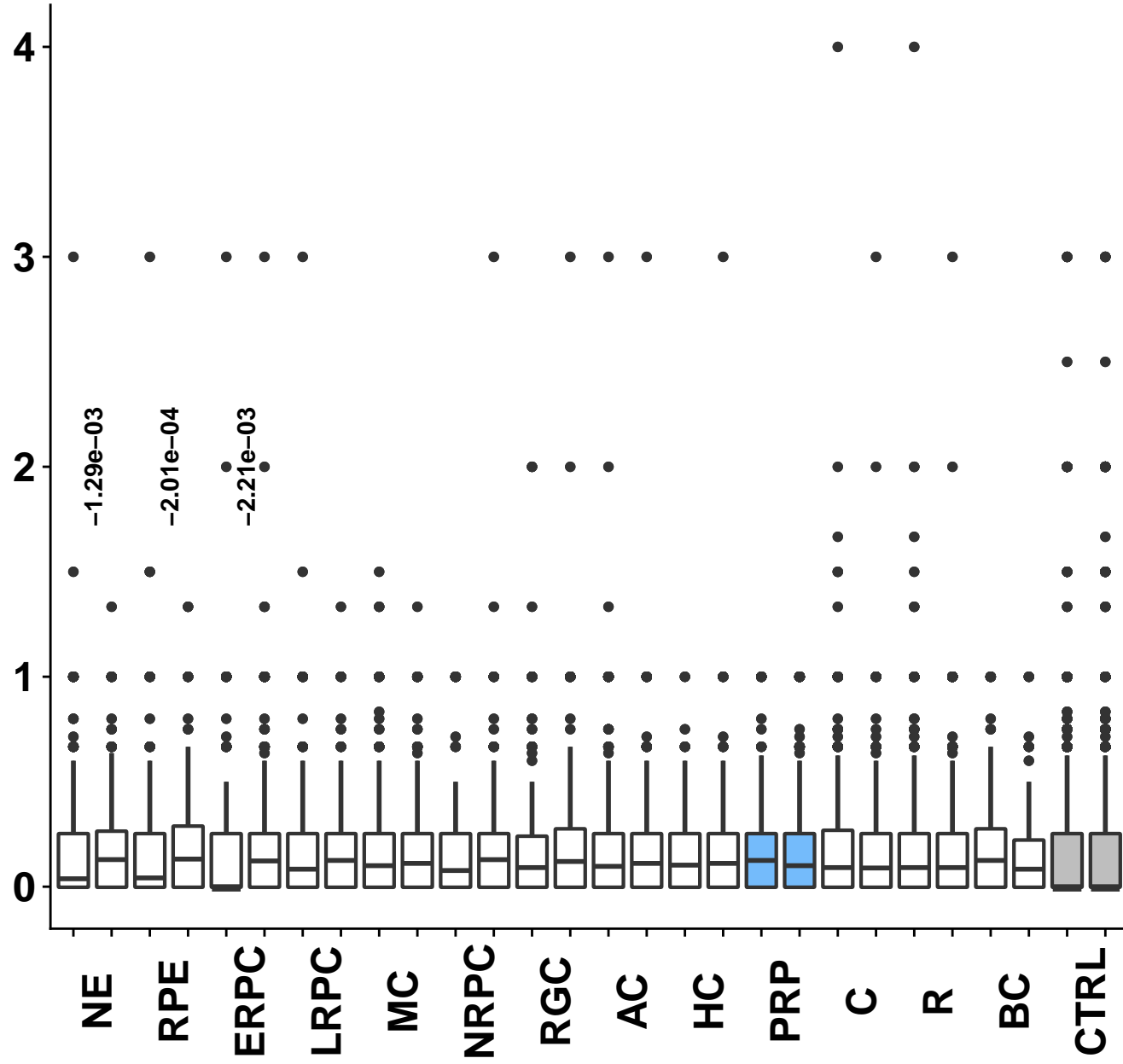
Tgif1_2_mean



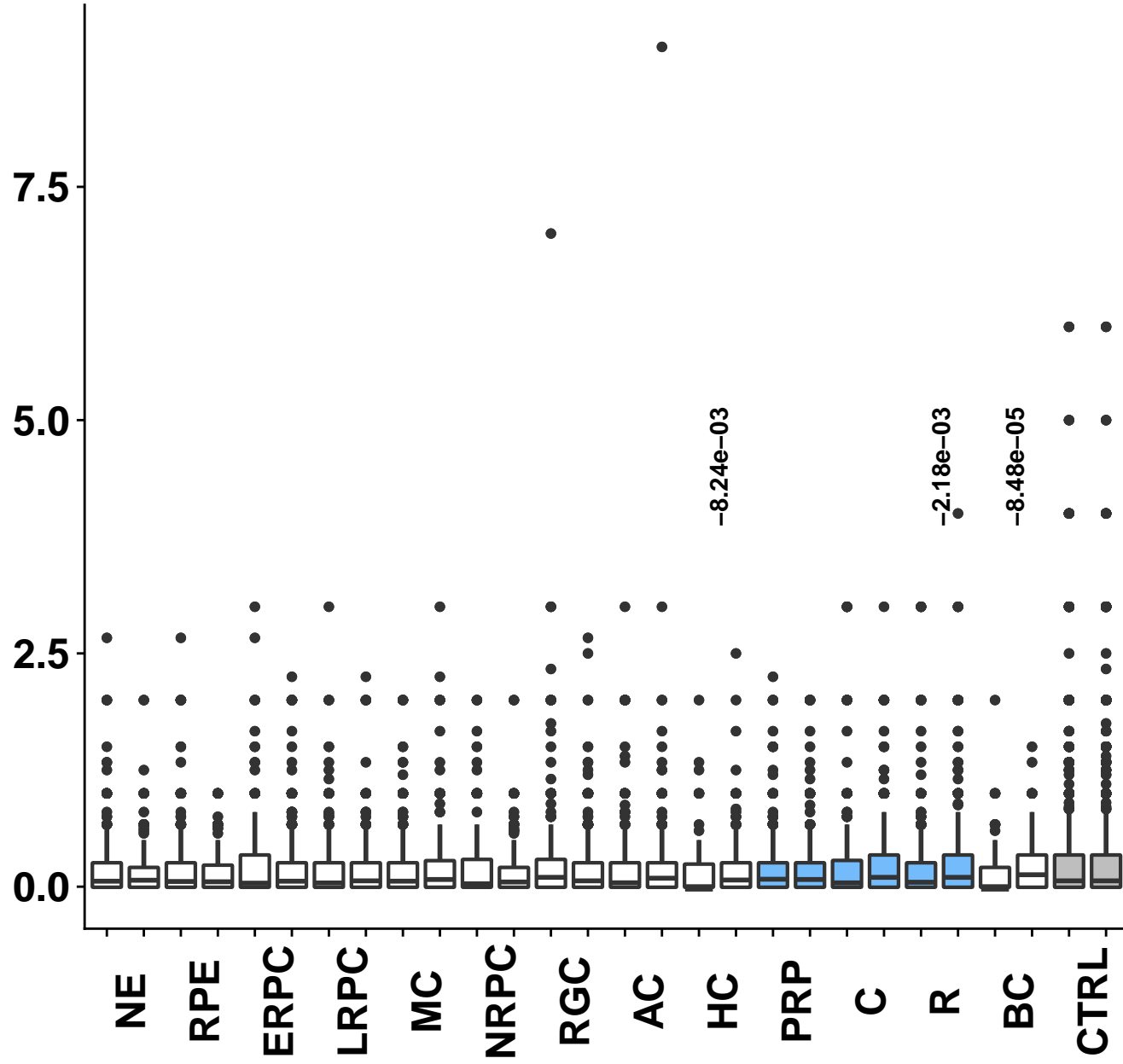
Tgif1_3_mean



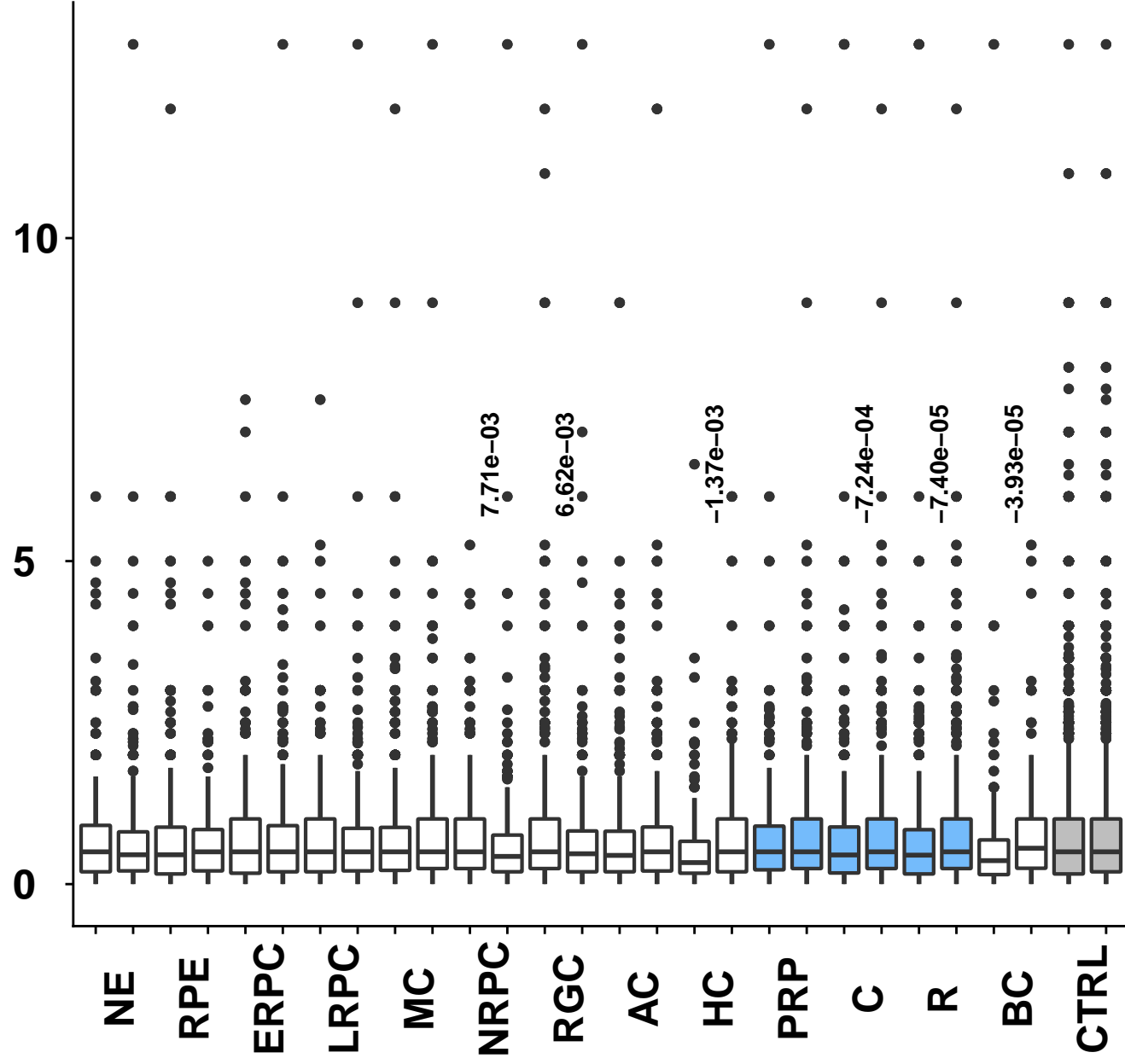
Ddit3_1_mean



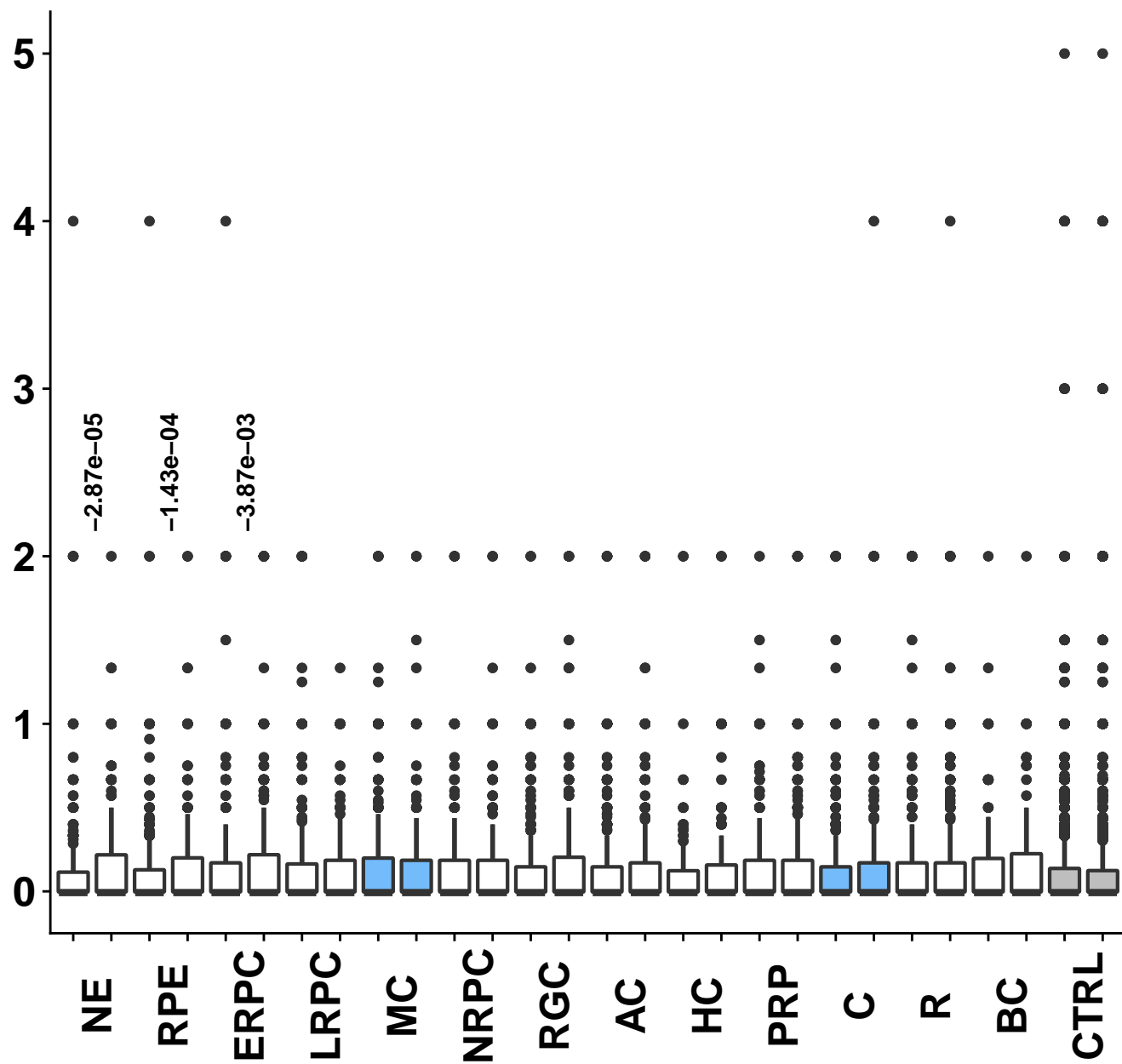
Klf9_1_mean



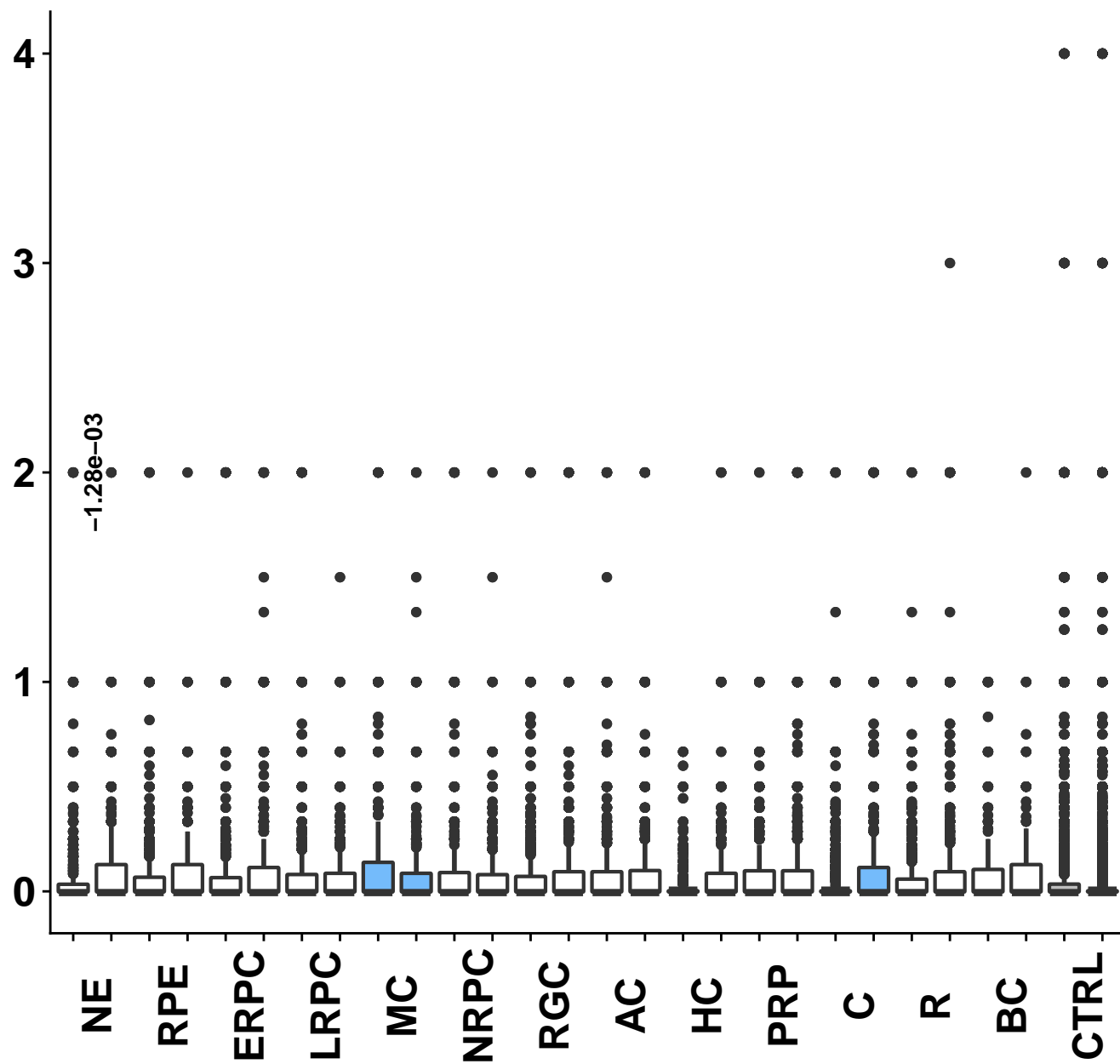
Klf9_2_mean



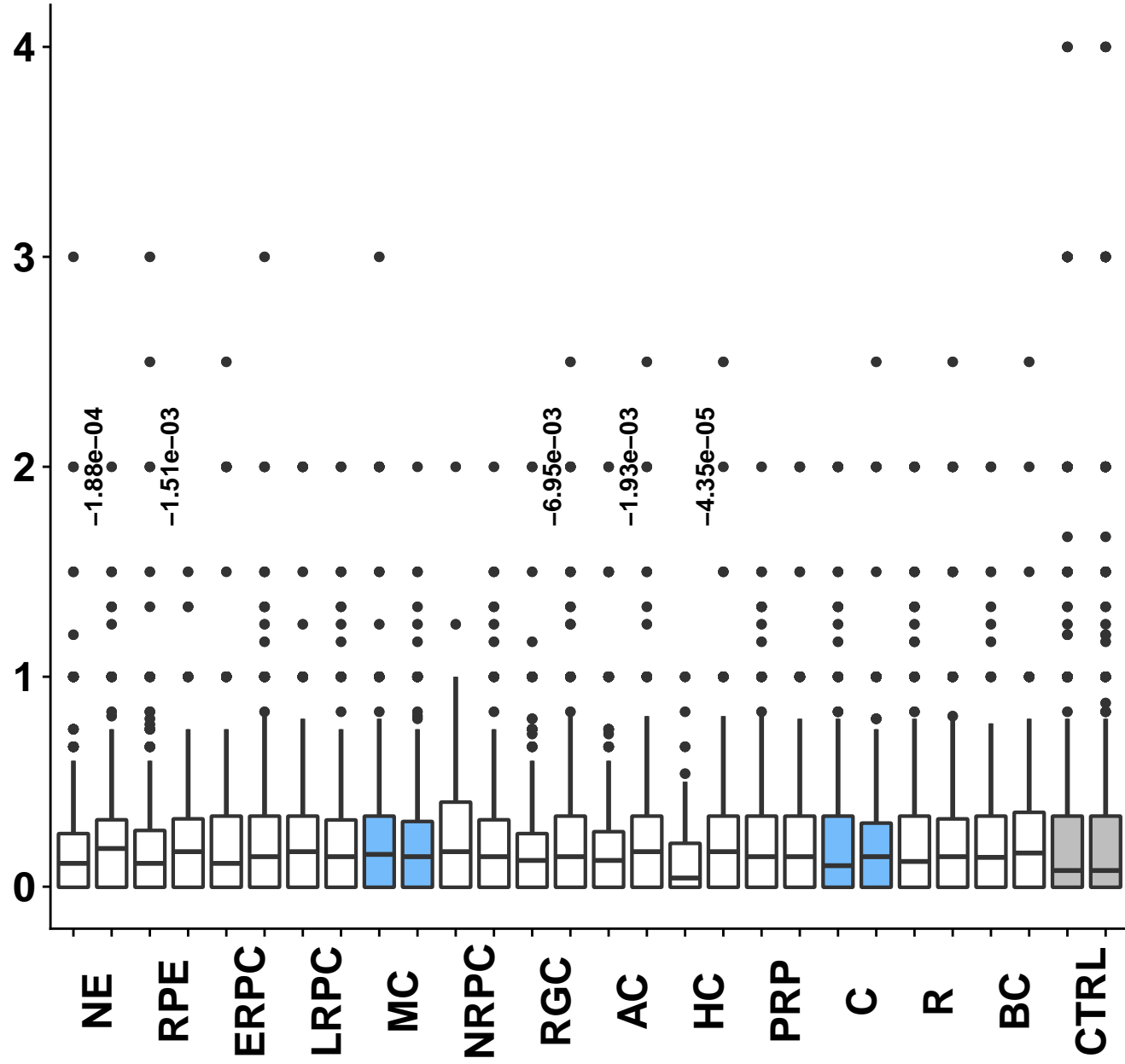
Stat3_1_mean



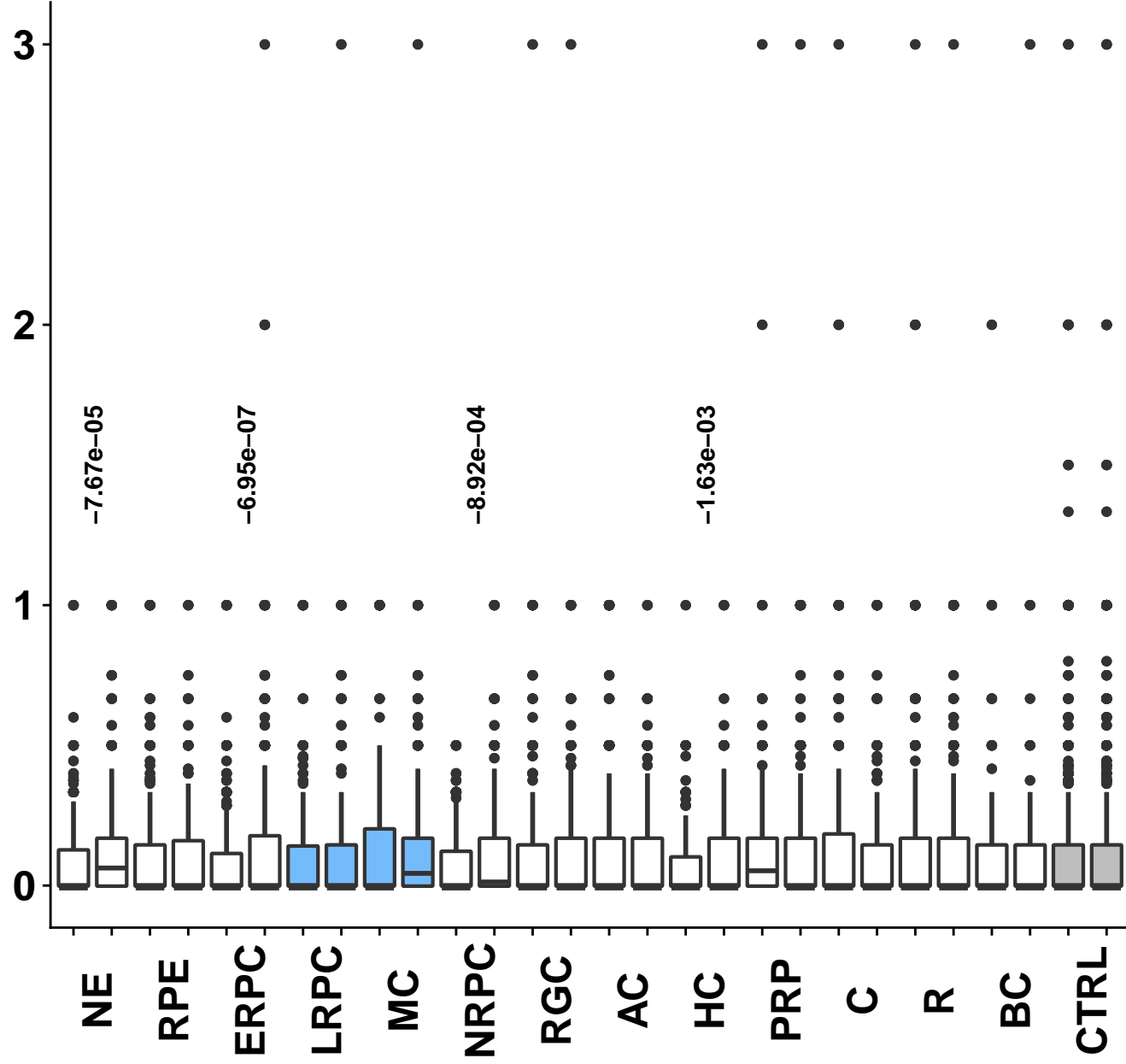
Stat3_2_mean



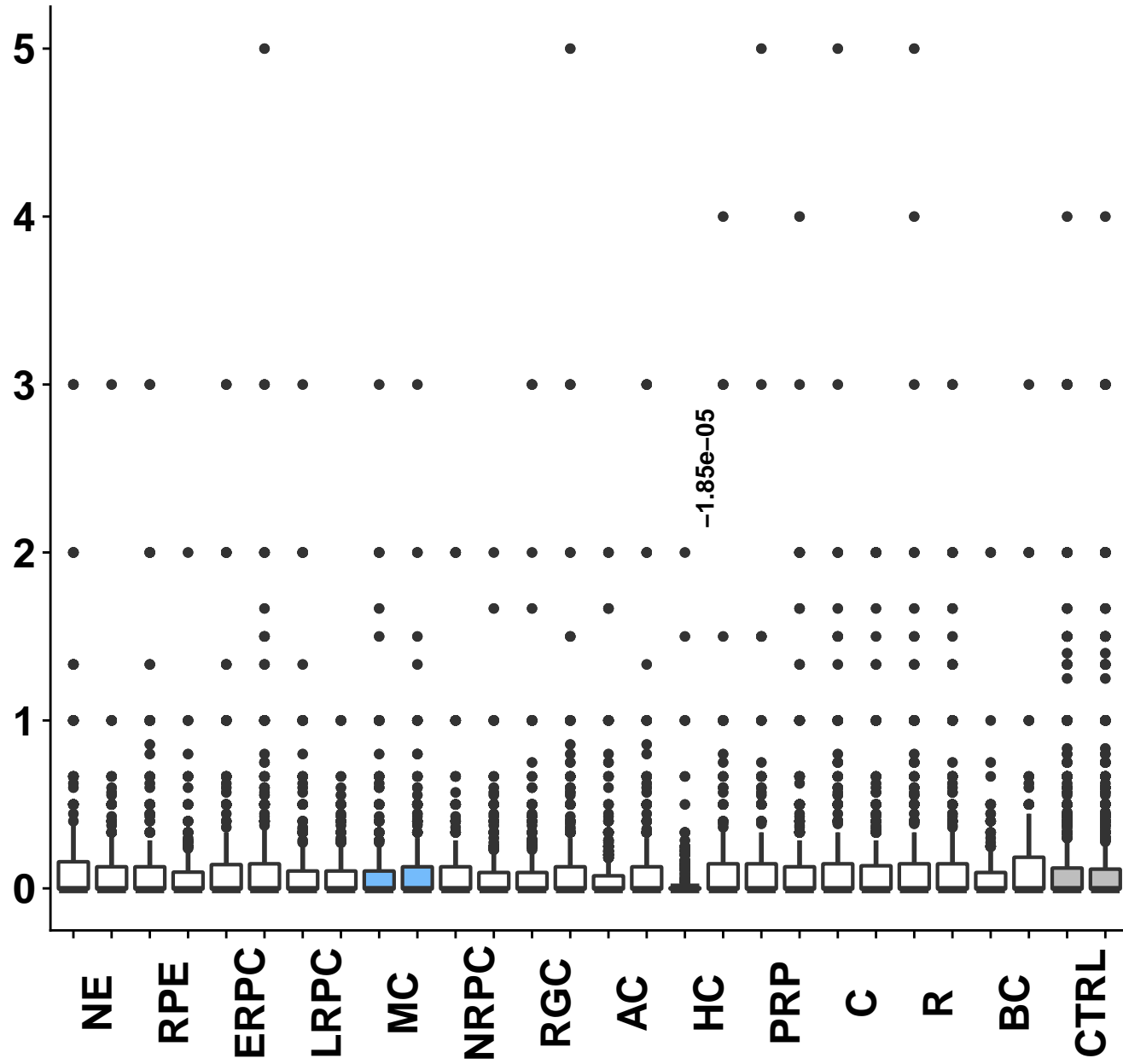
Stat3_3_mean



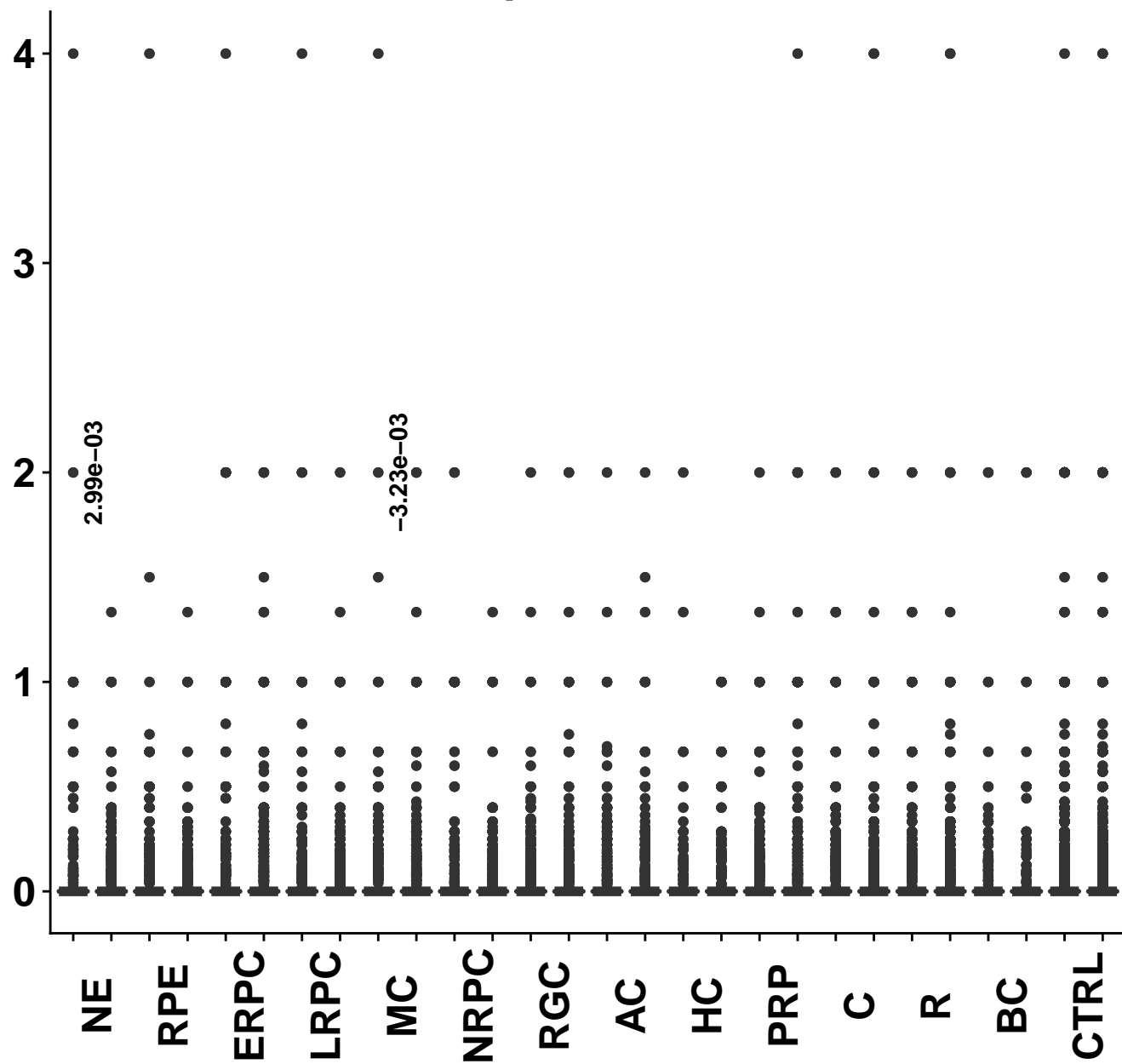
Nfia_1_mean



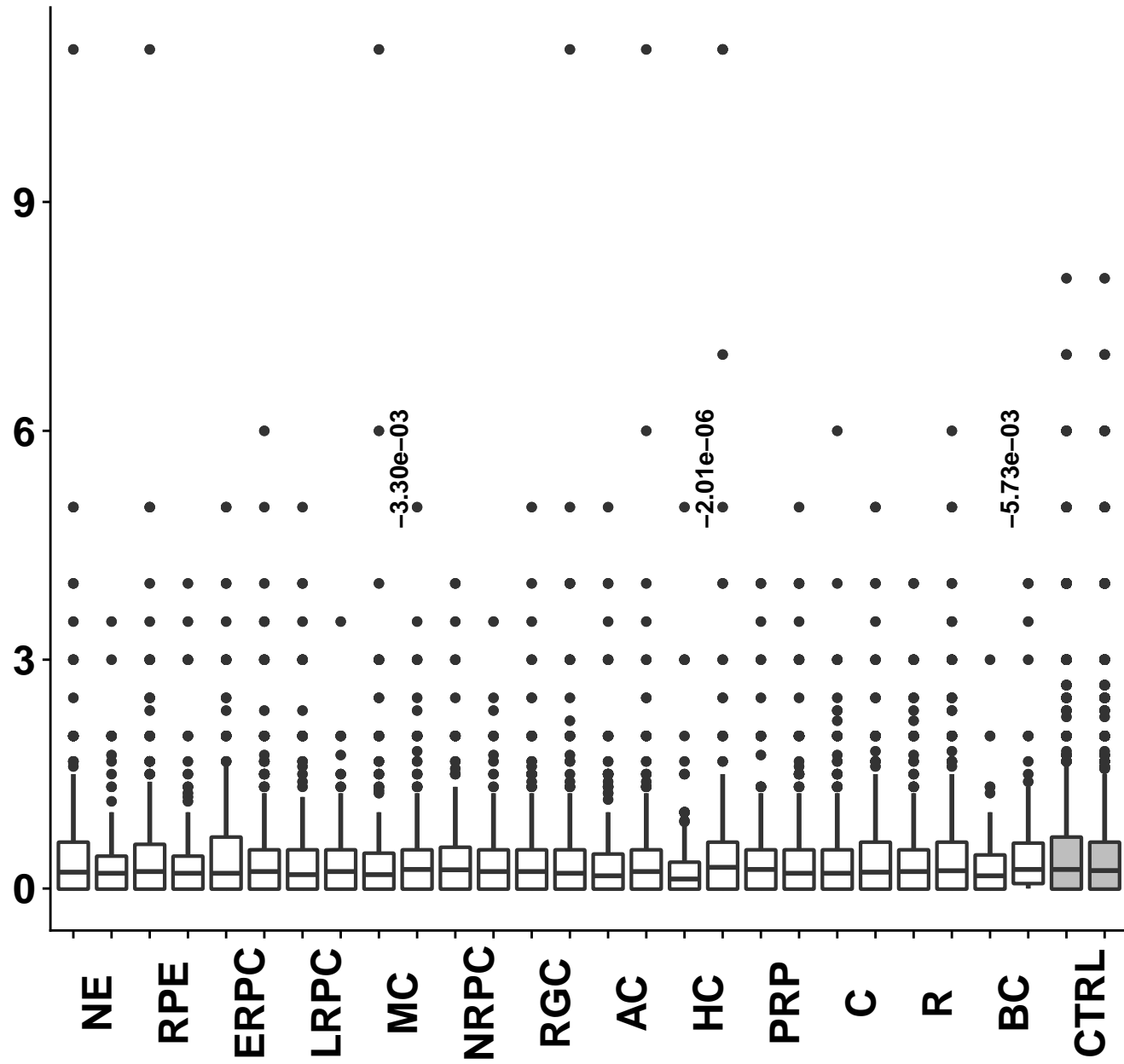
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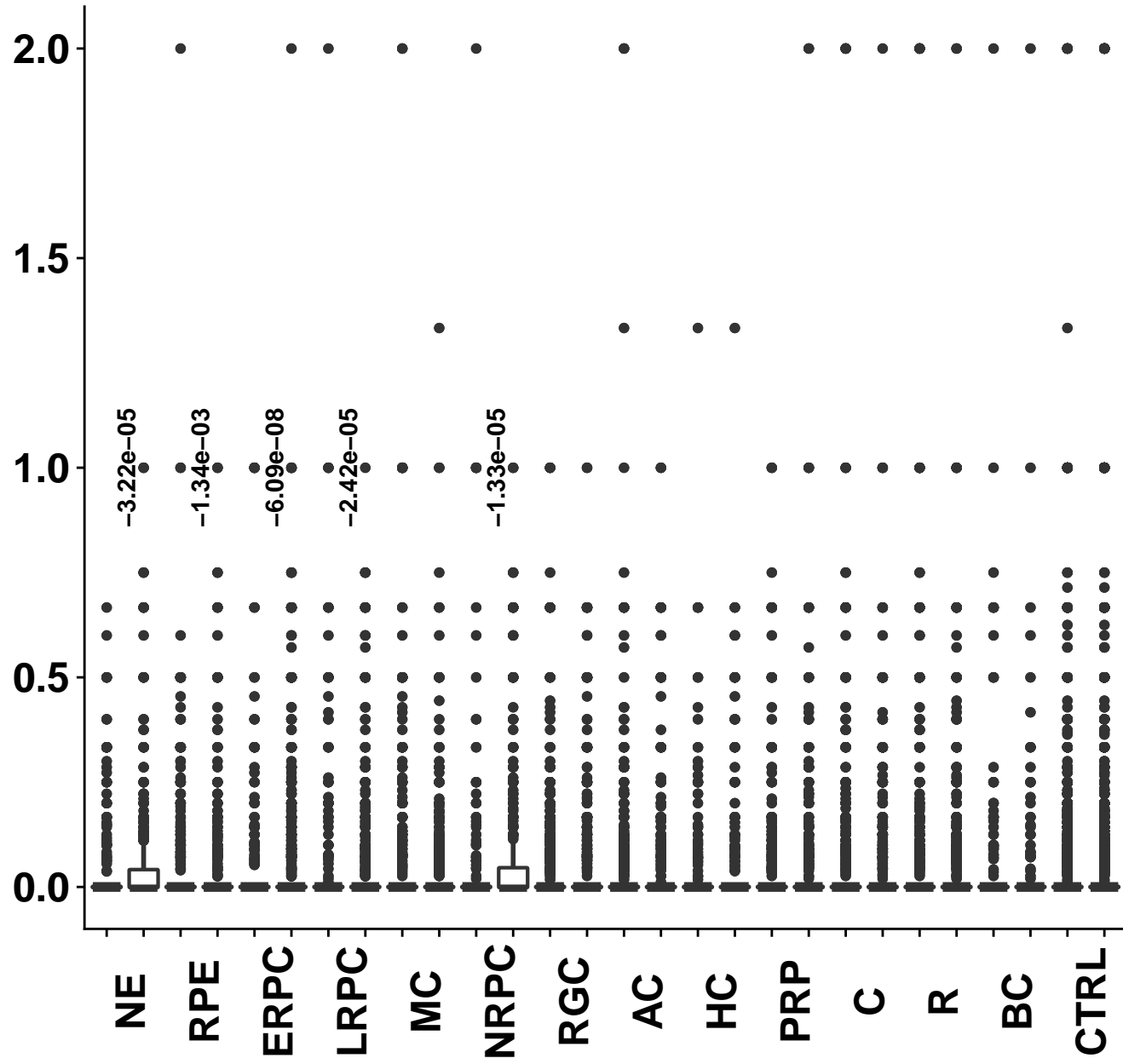
Dbp_1_mean



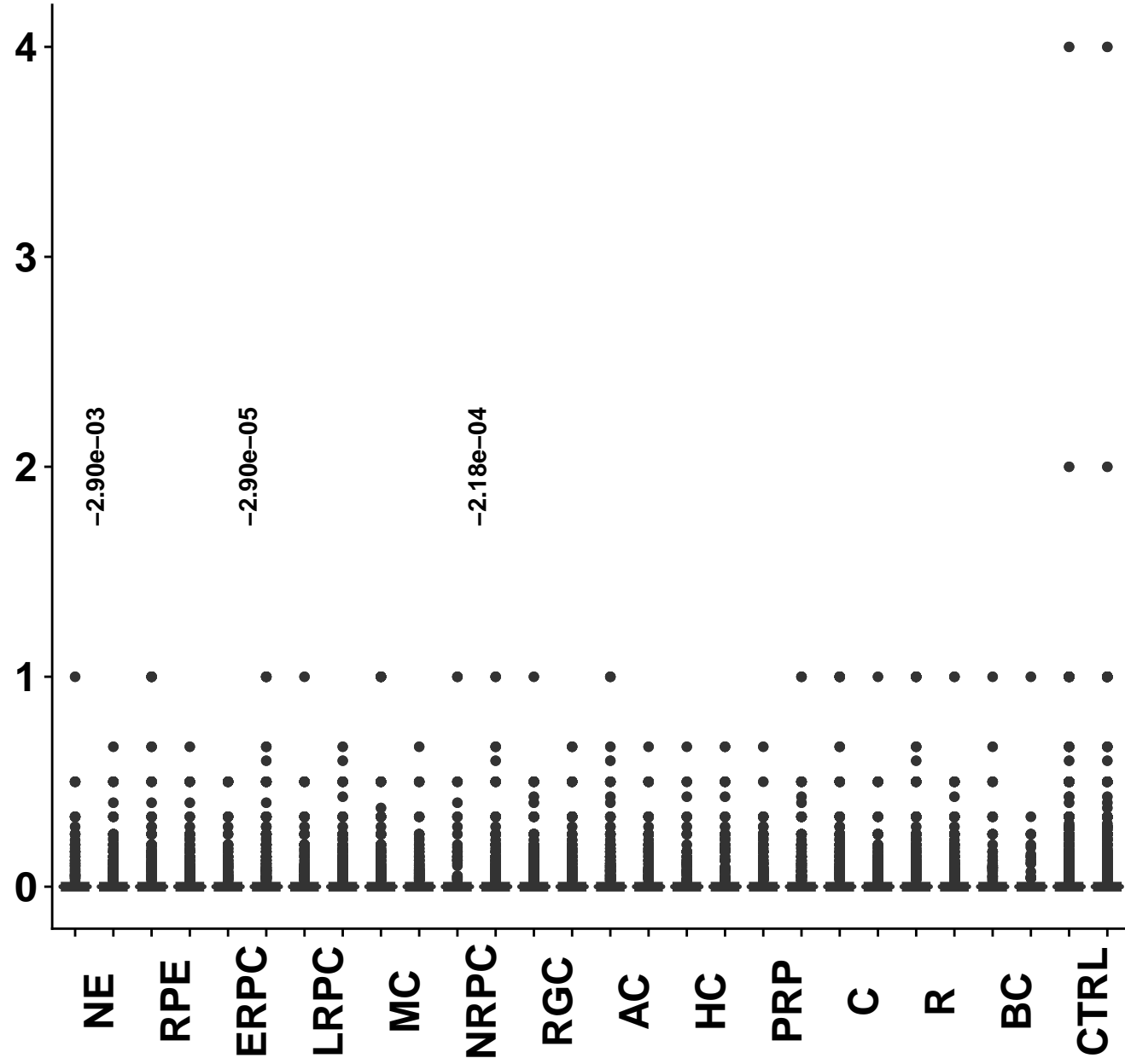
Hey2_1_mean



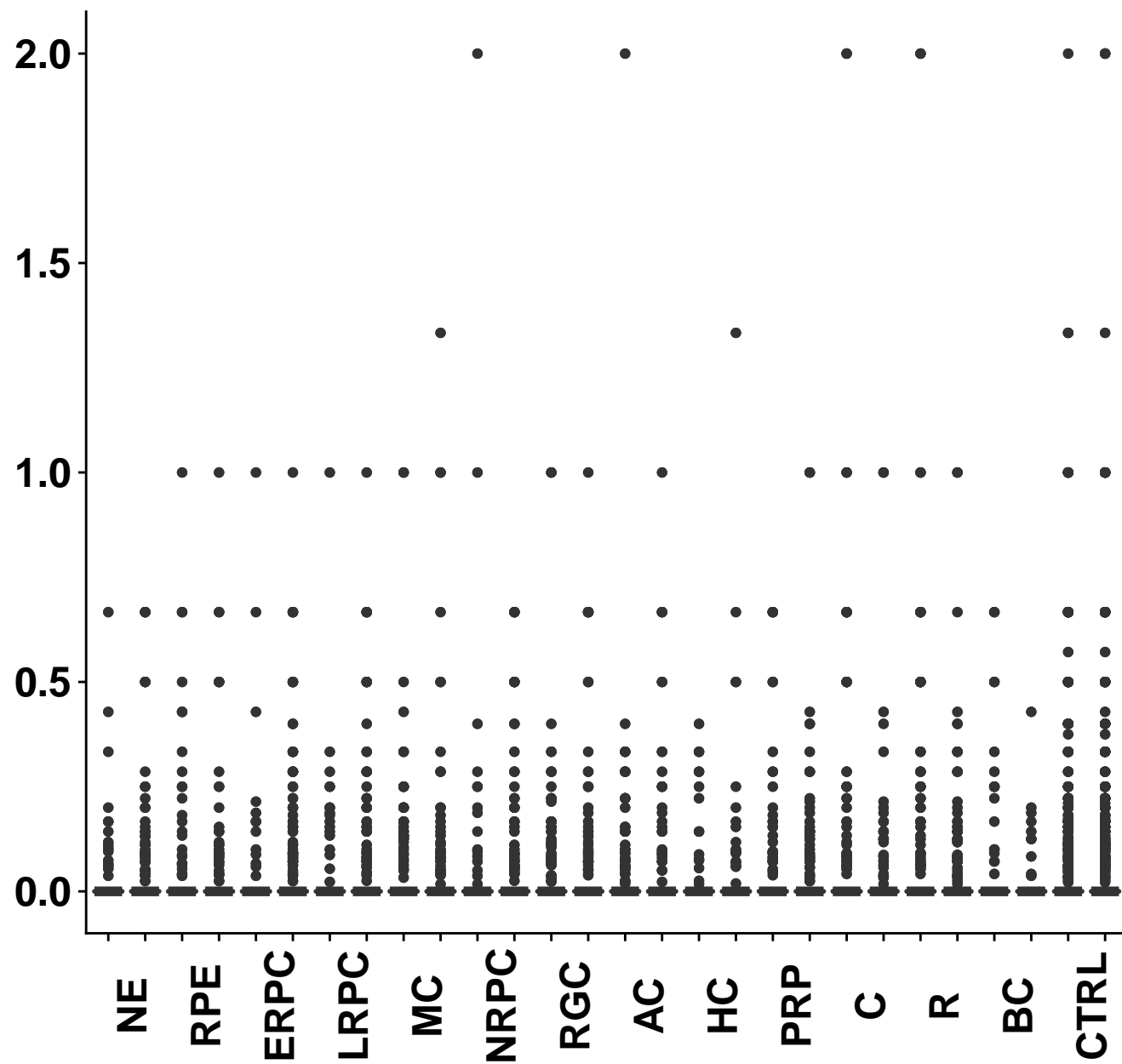
Mafk_1_mean



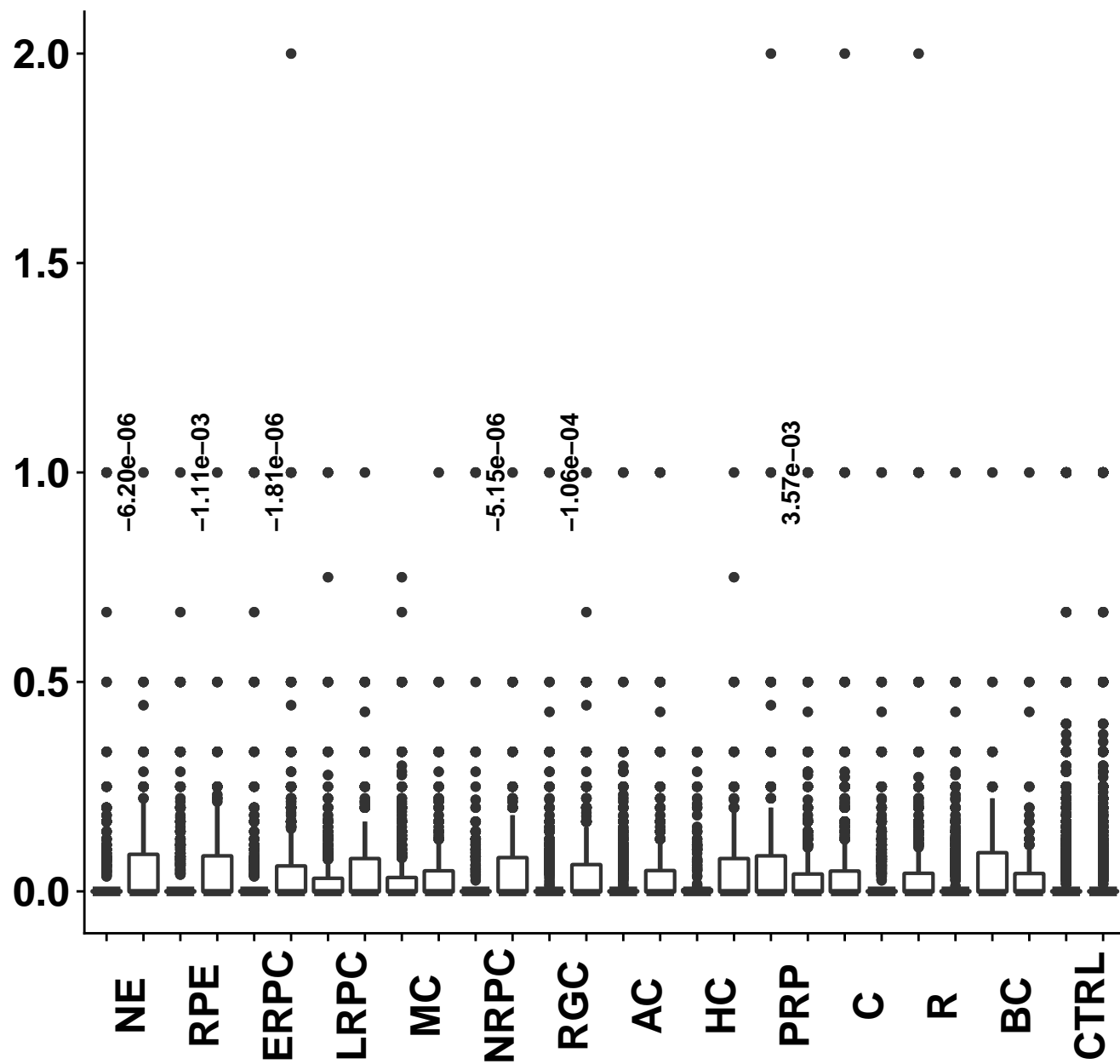
Mafk_2_mean



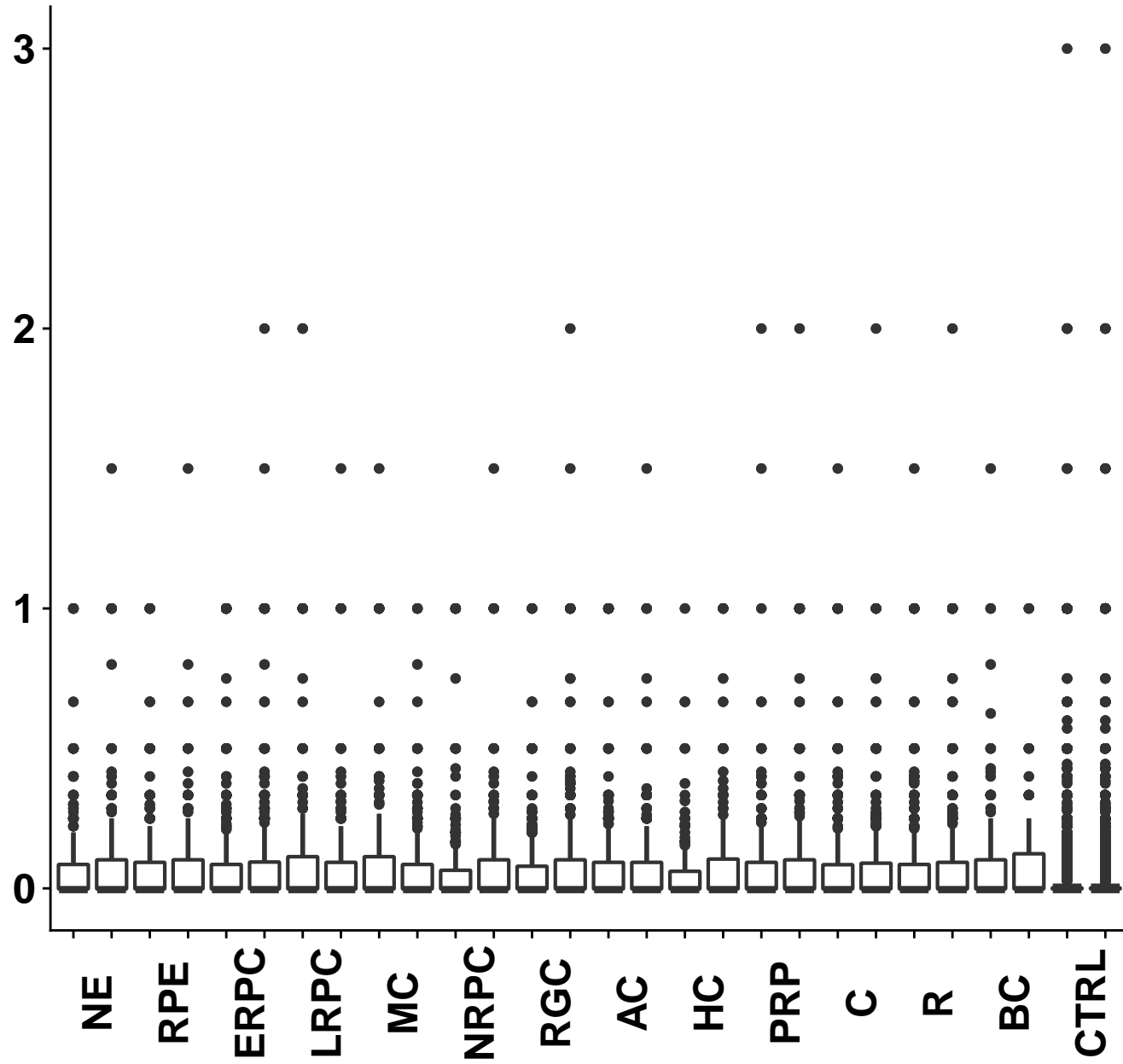
Mafk_3_mean



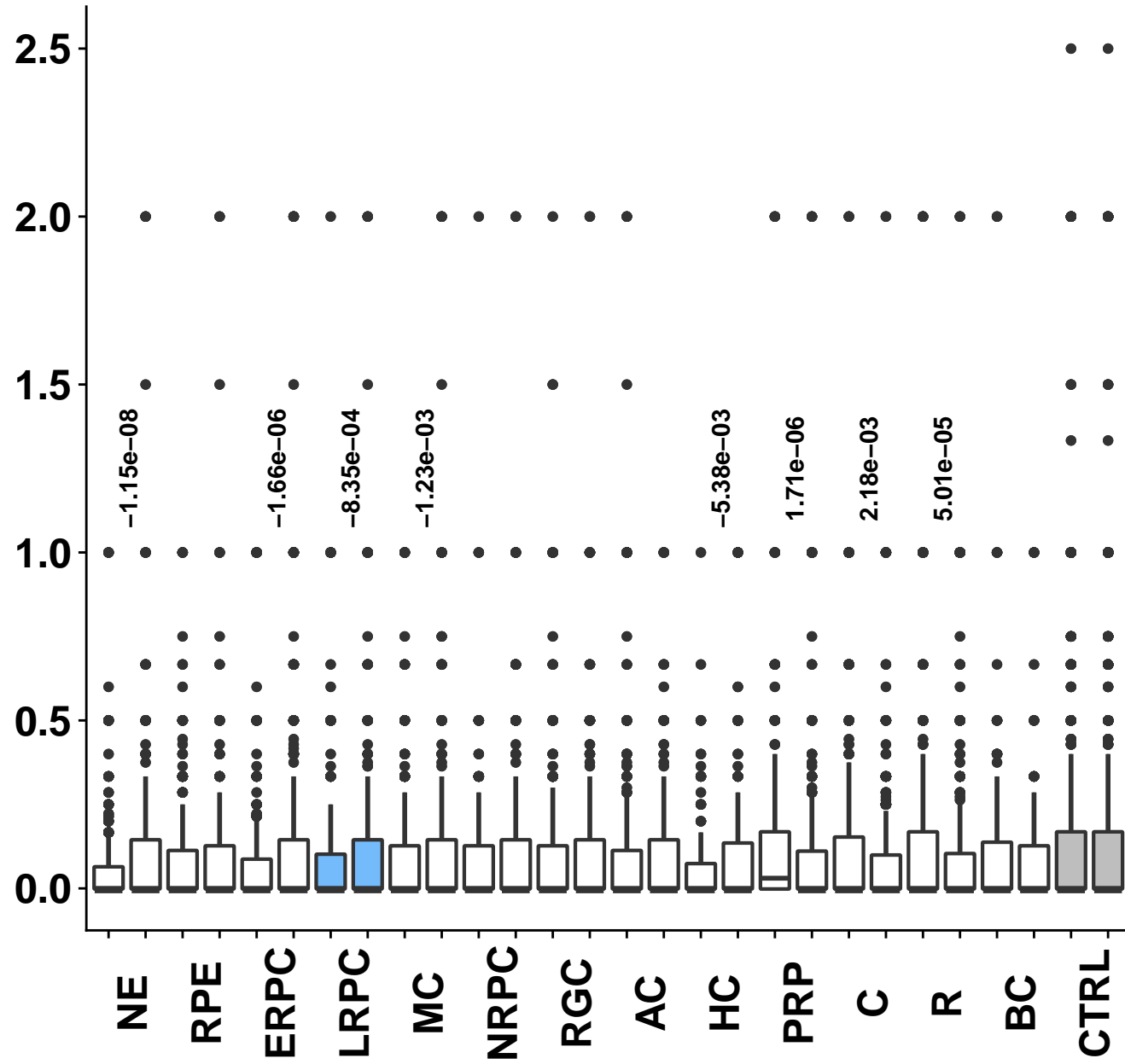
Mafk_4_mean



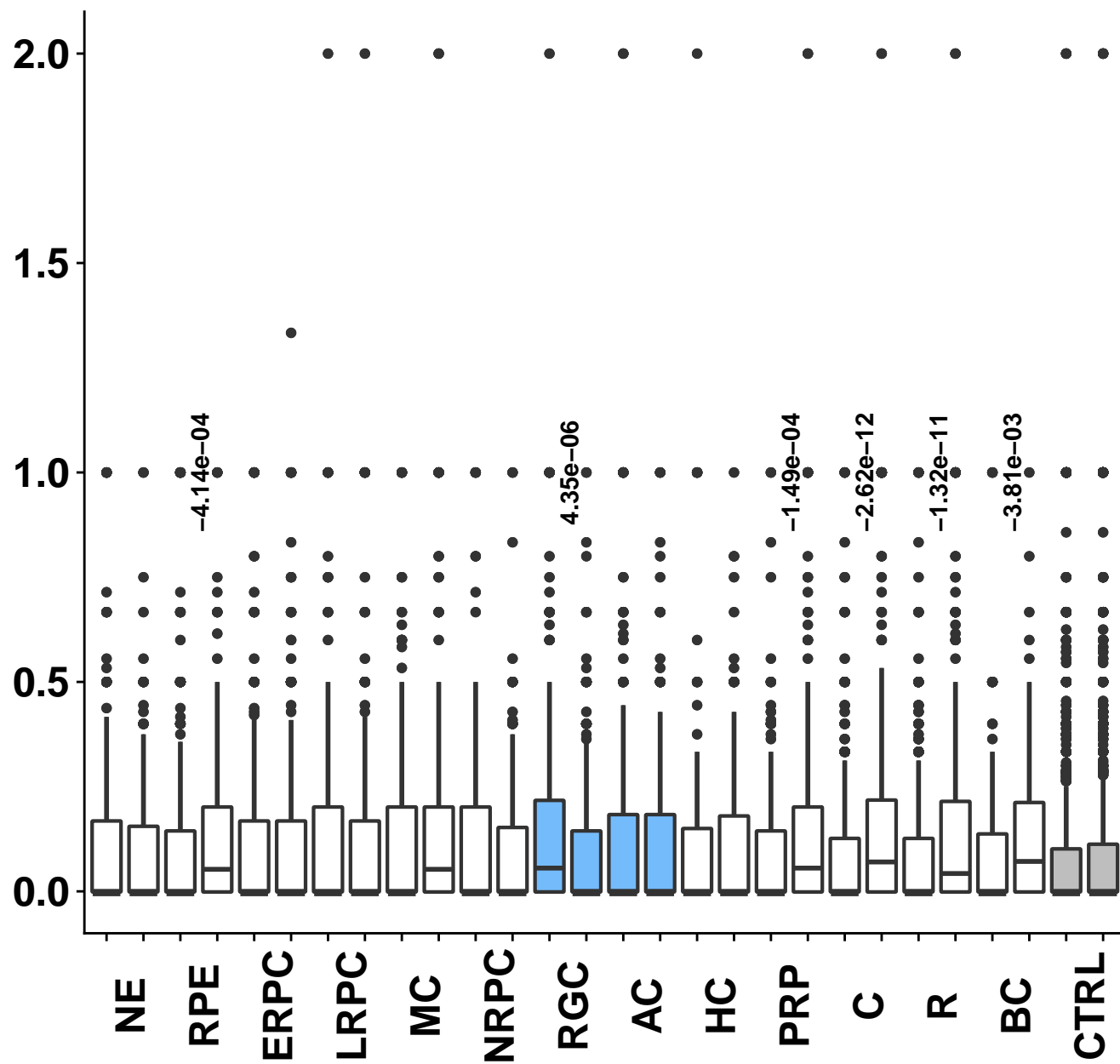
Mafk_5_mean



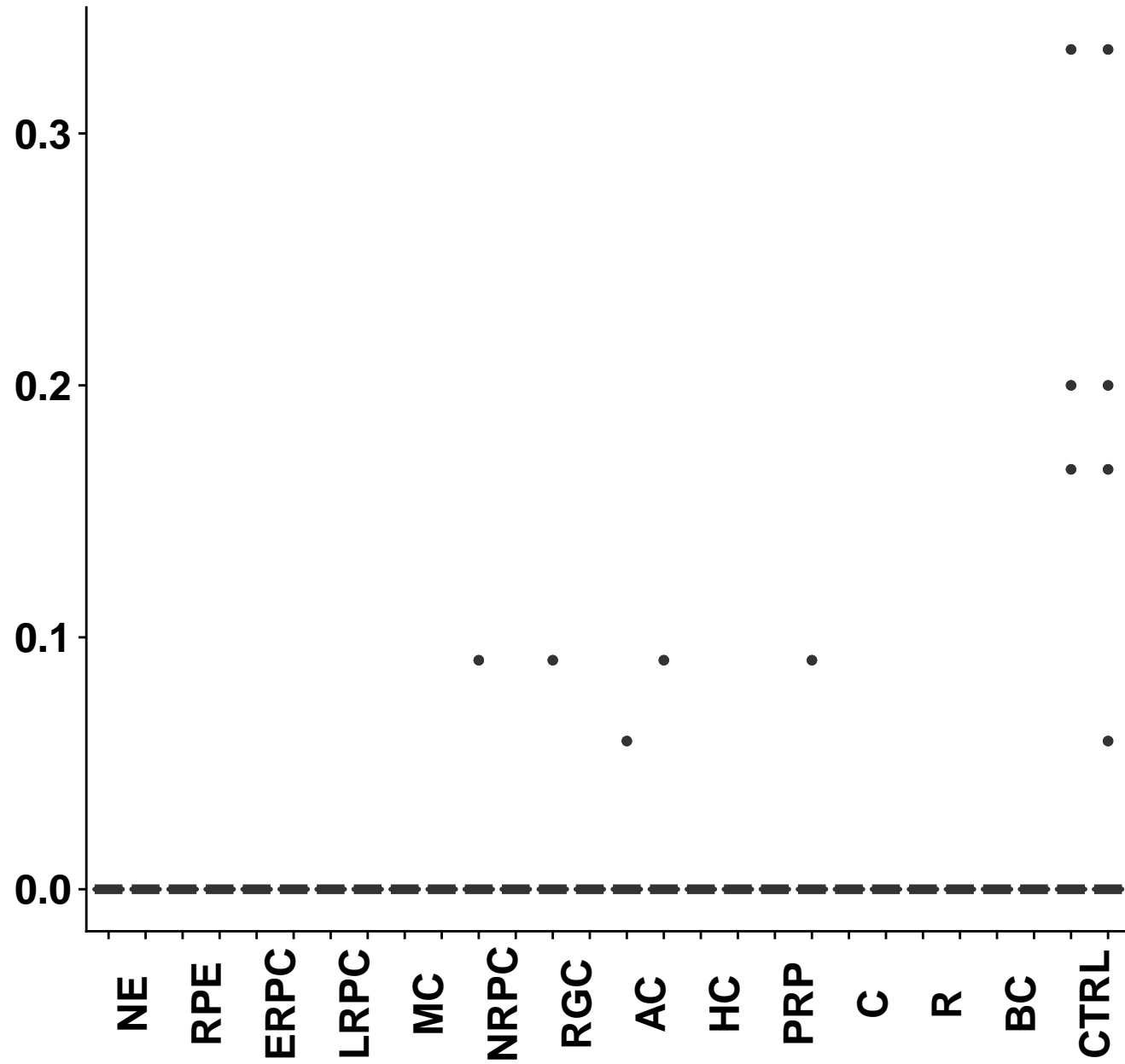
Zeb2_1_mean



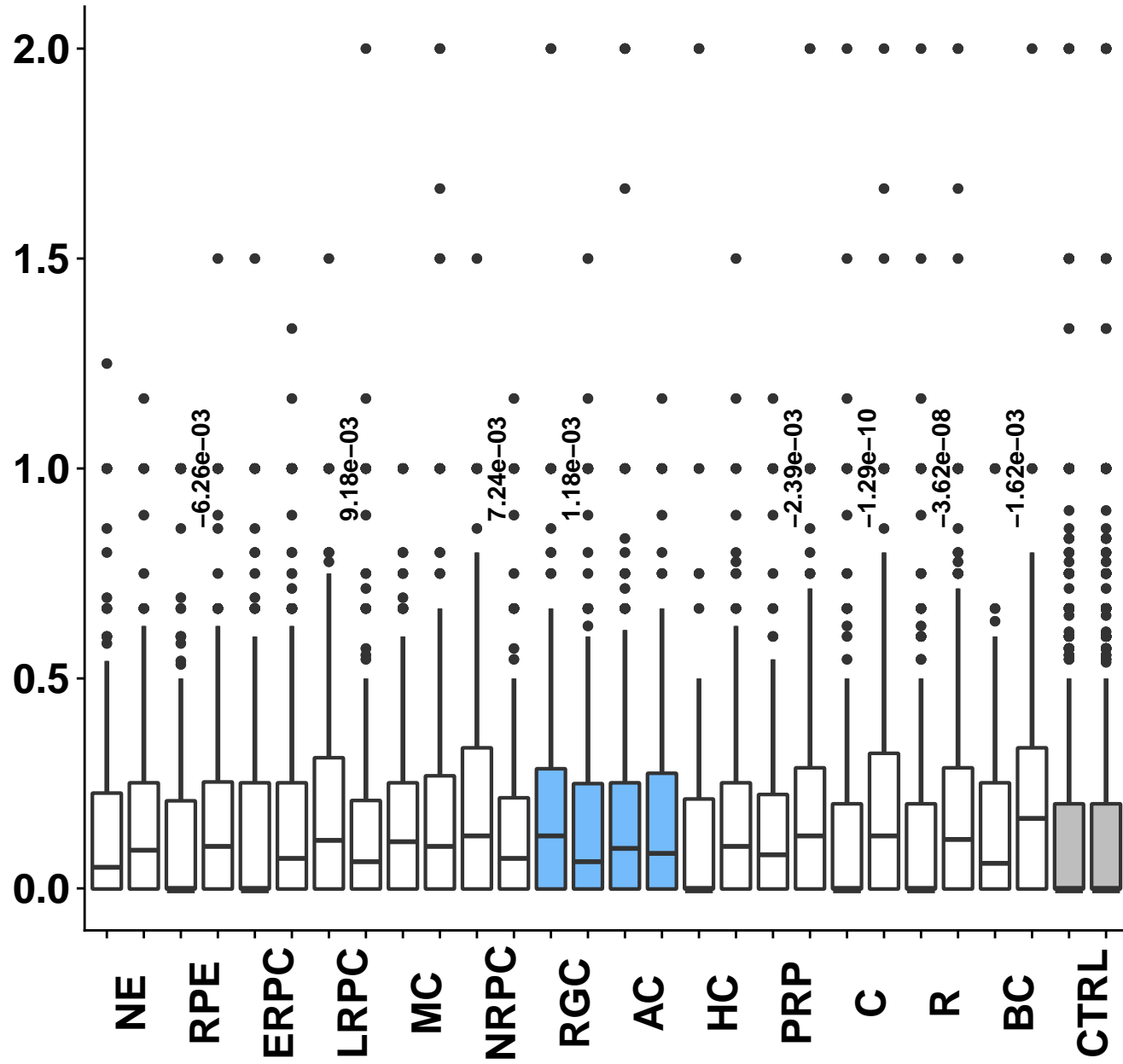
Sox4_1_mean



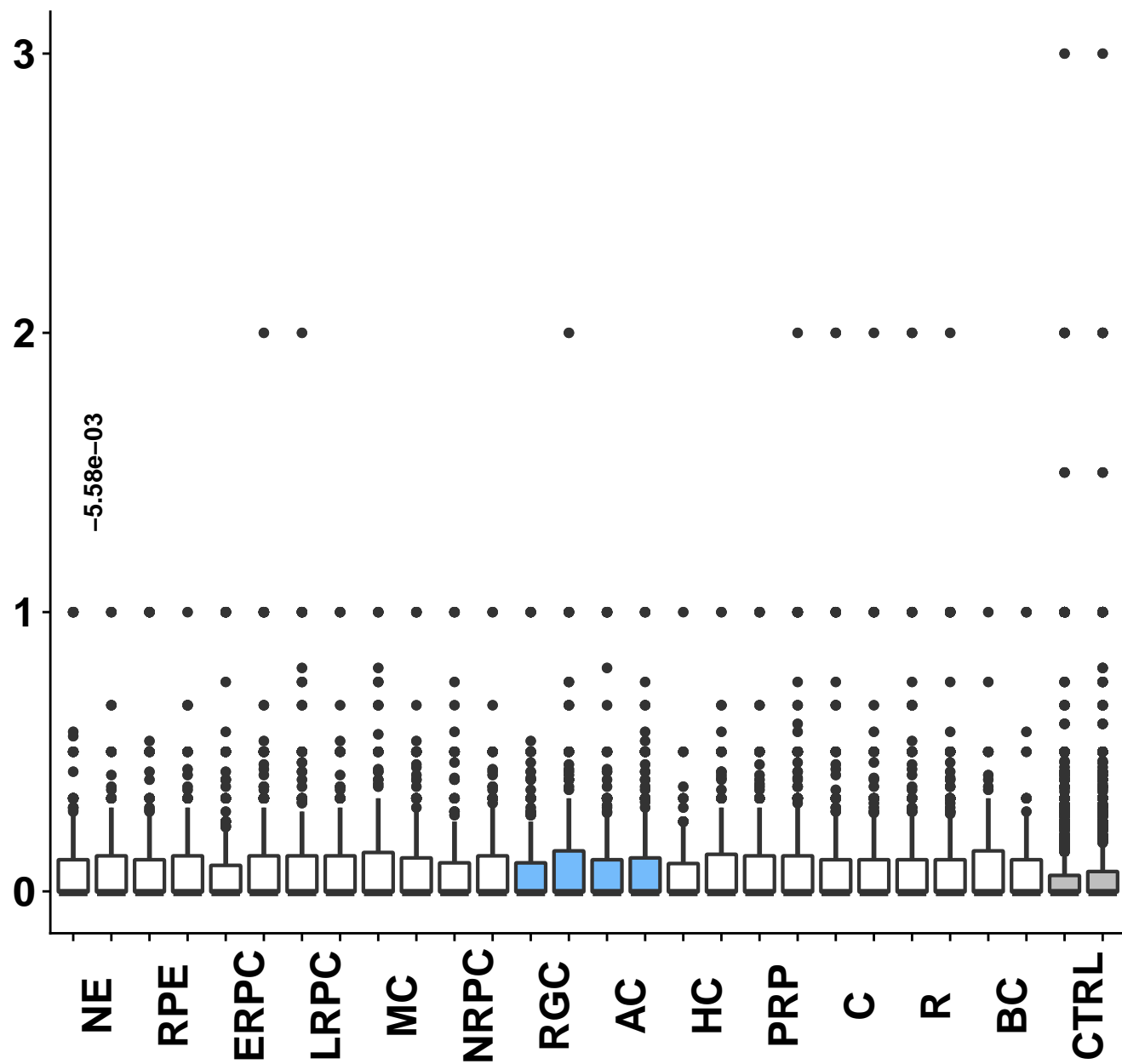
Sox4_2_mean



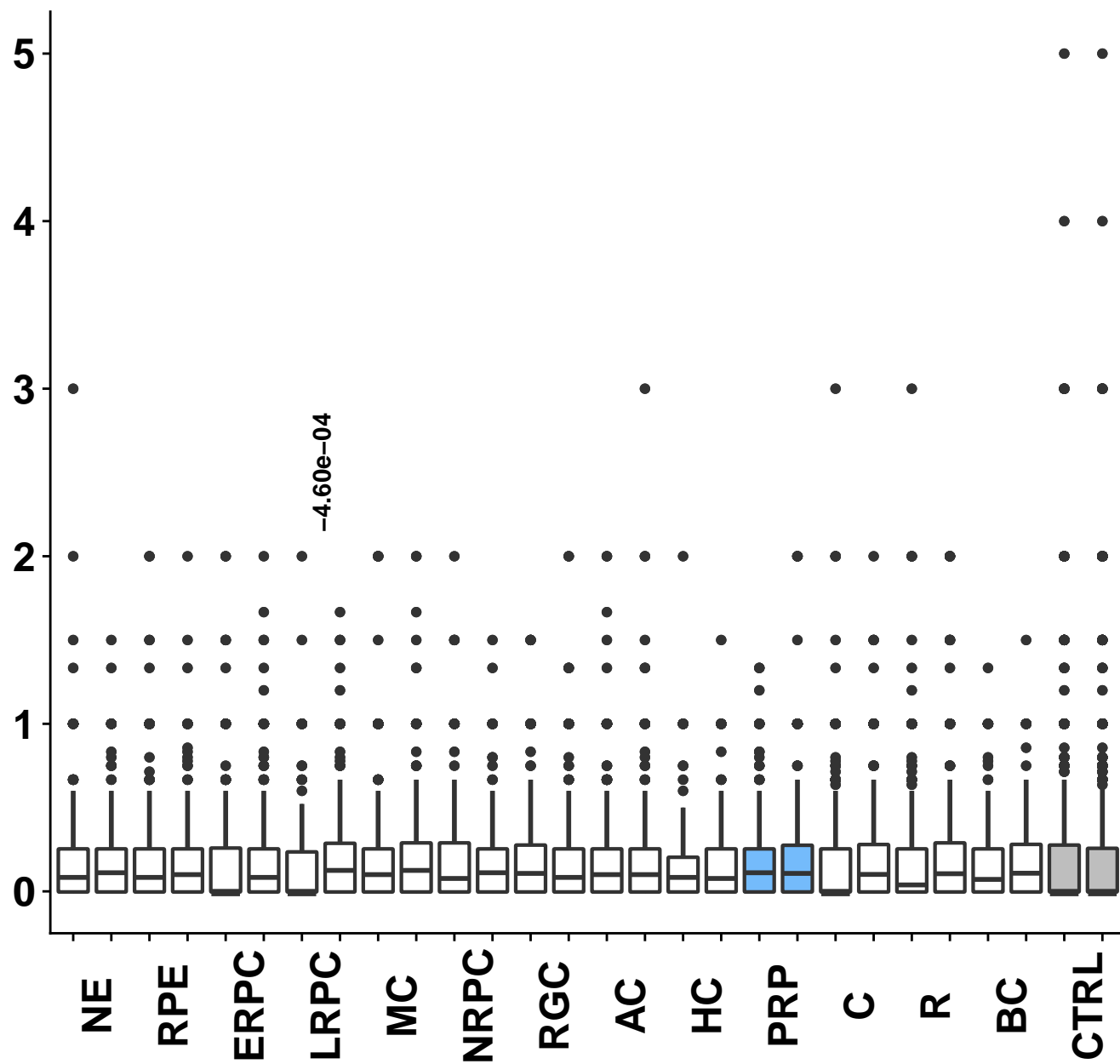
Sox4_3_mean



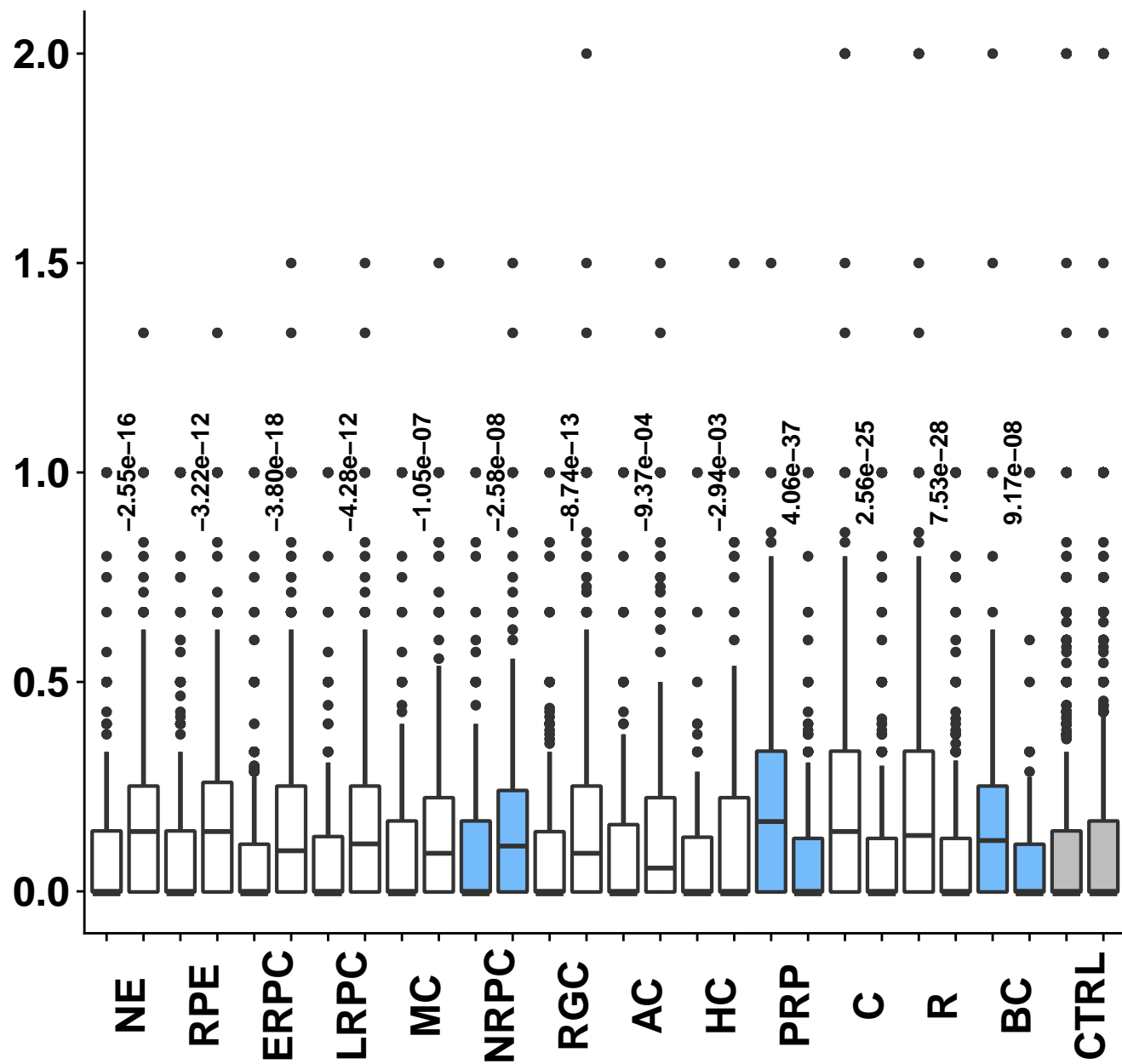
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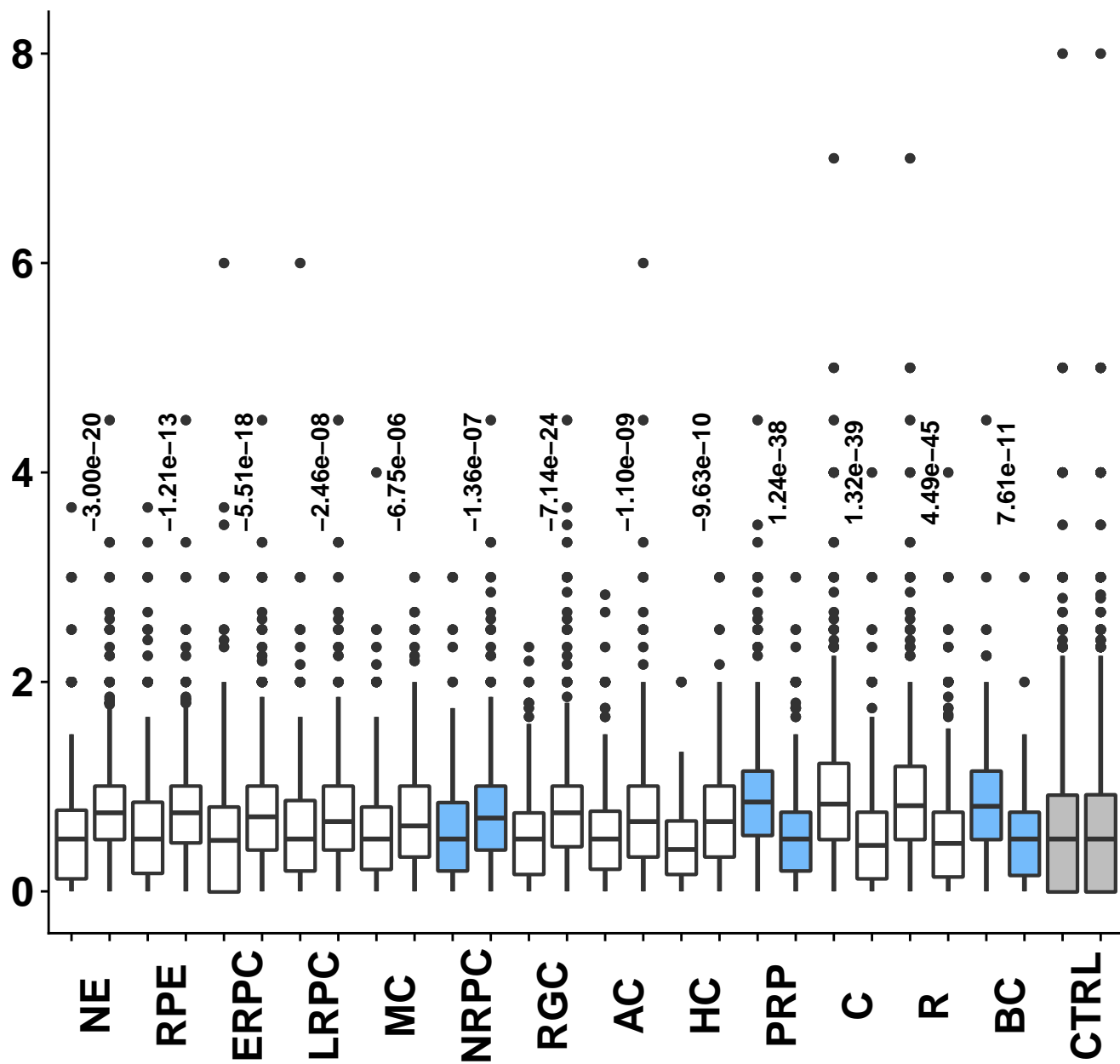
Insm1_1_mean



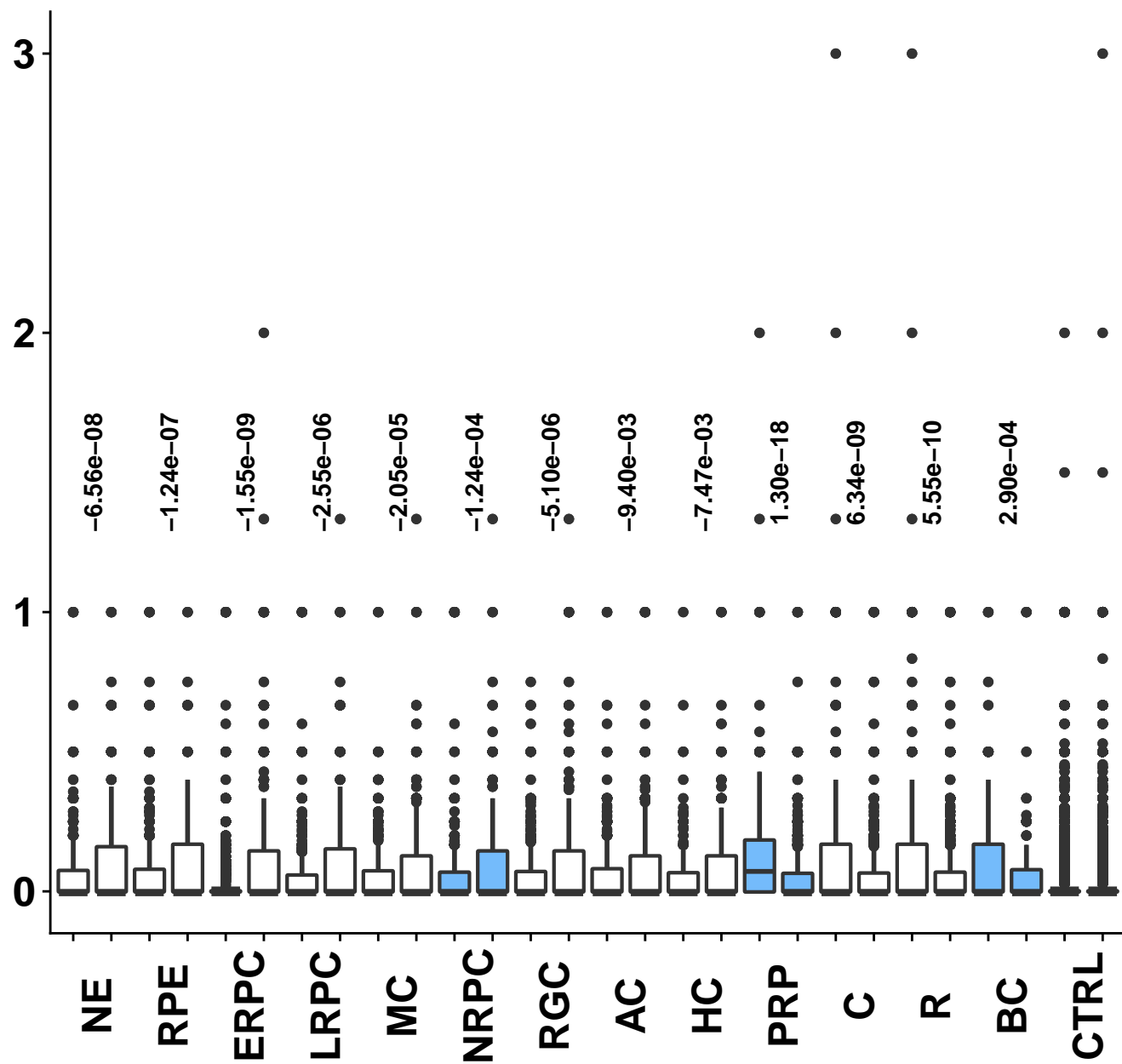
Otx2_1_mean



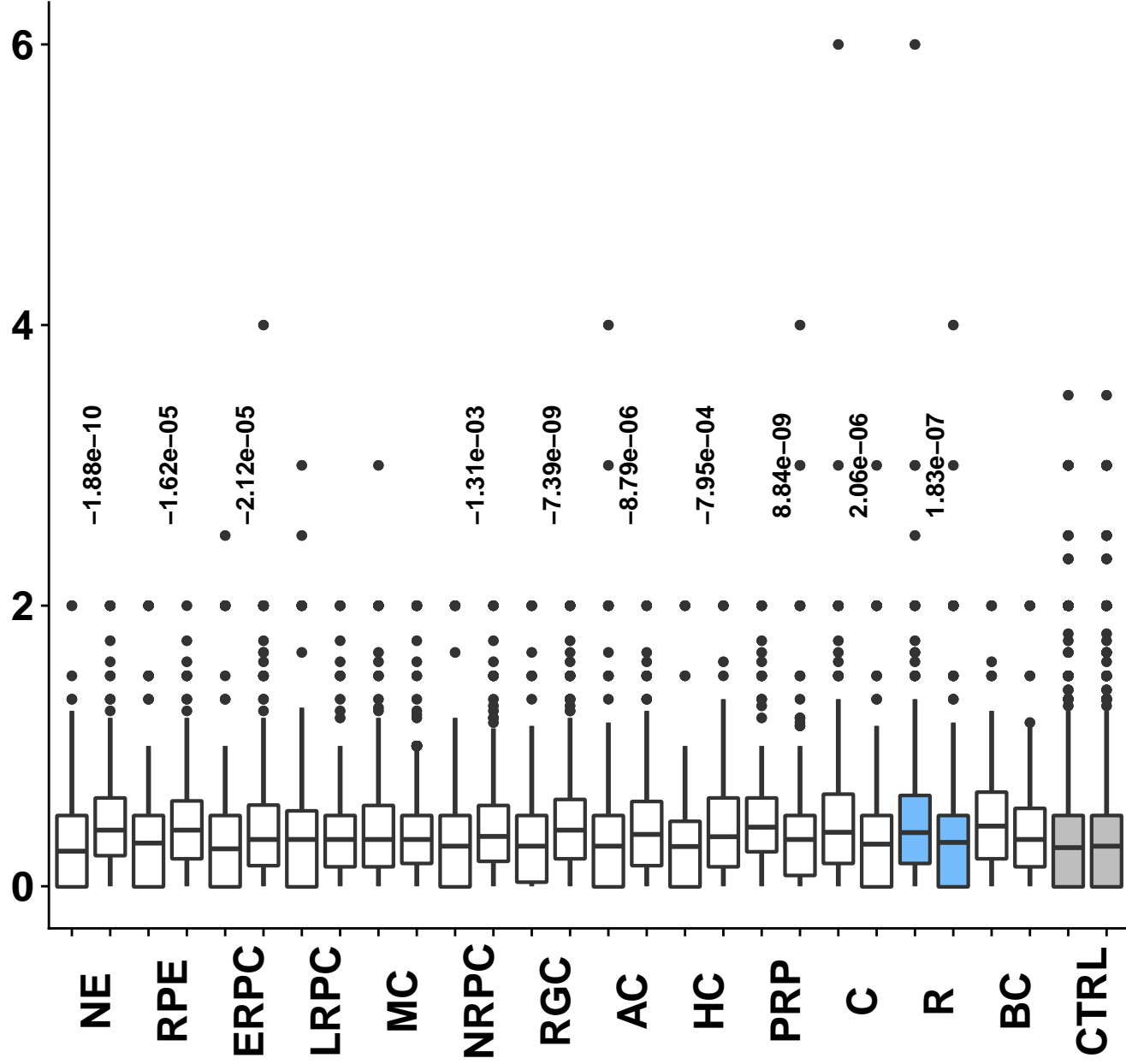
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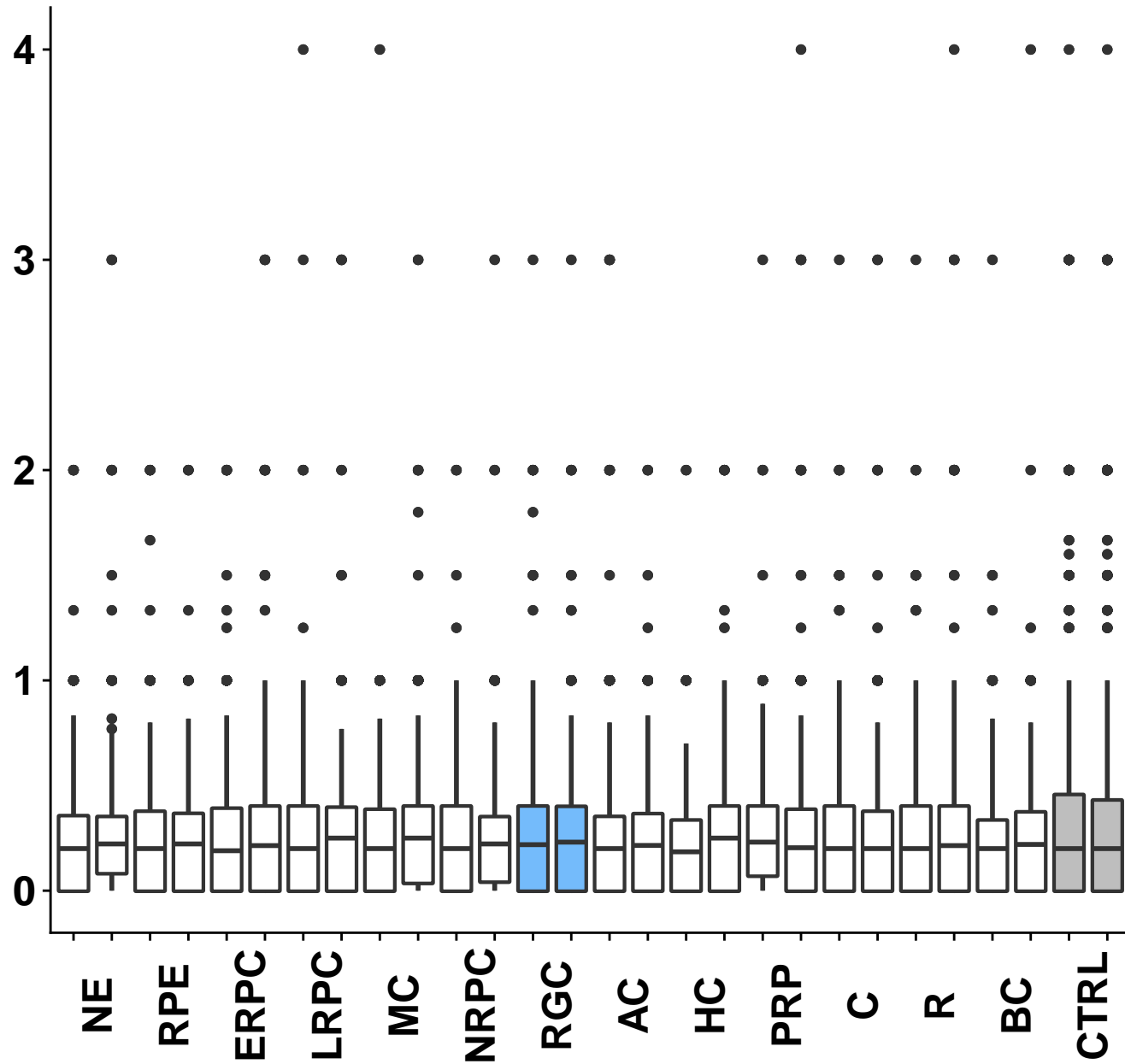
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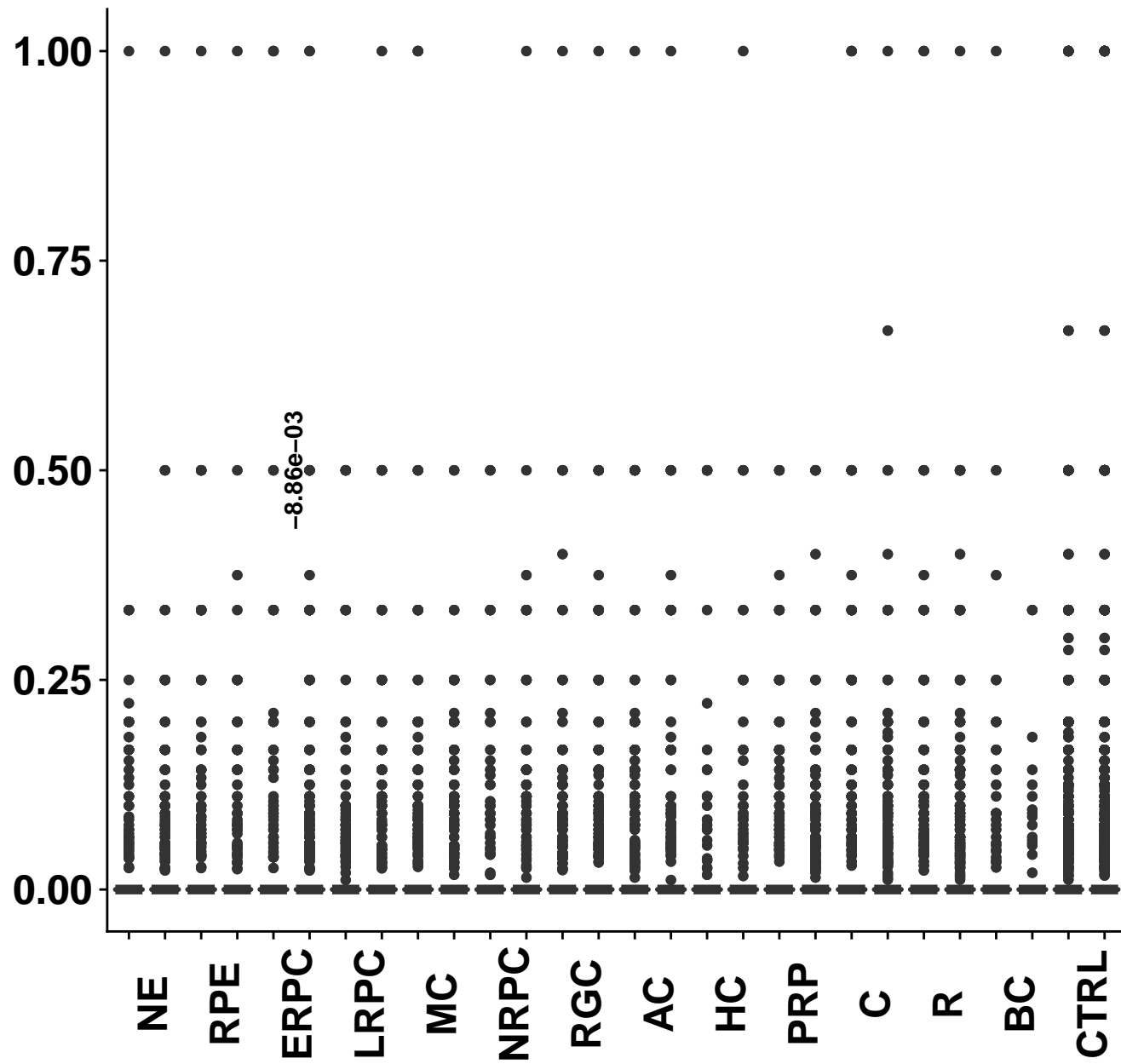
Rorb_1_mean



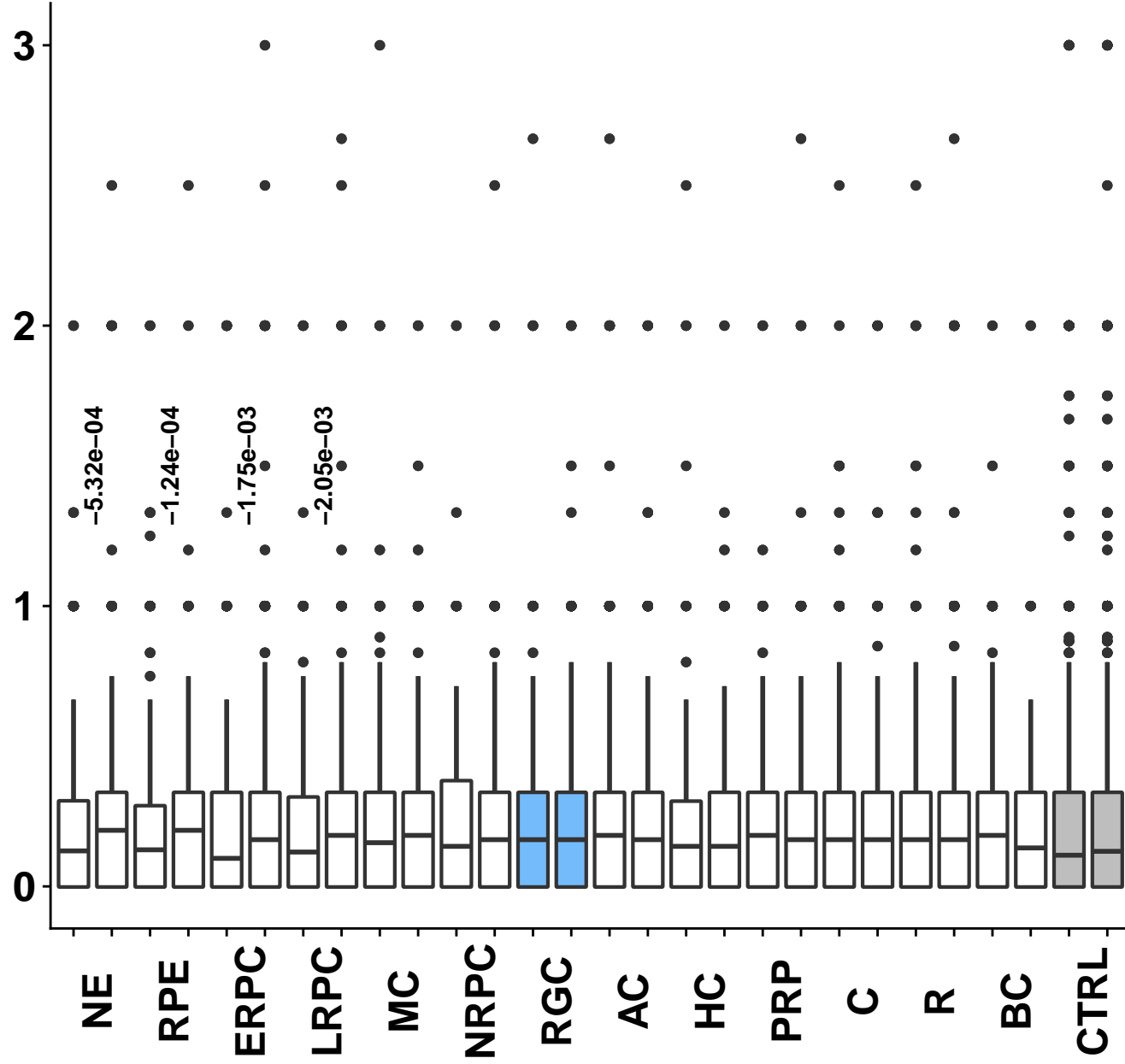
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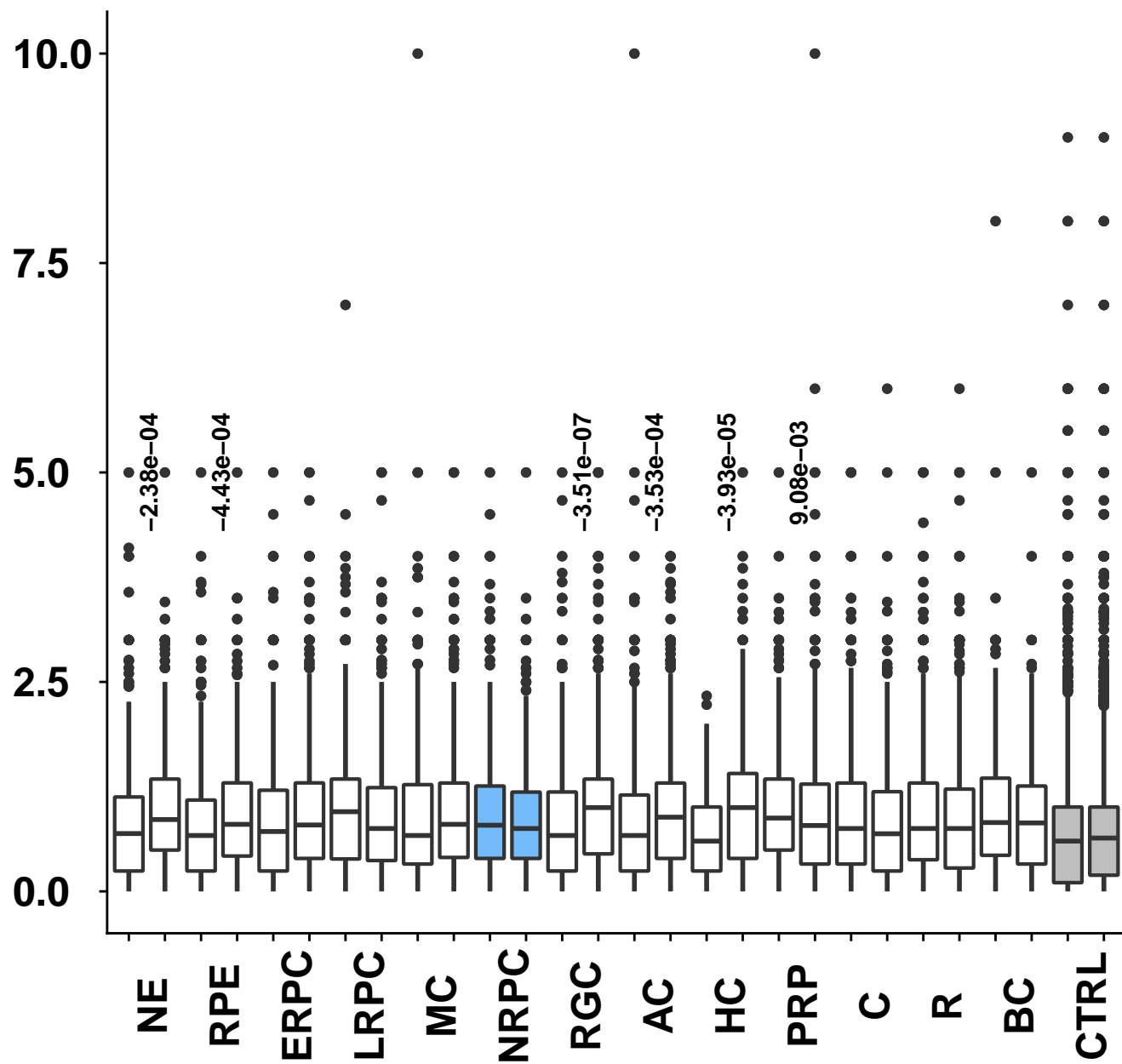
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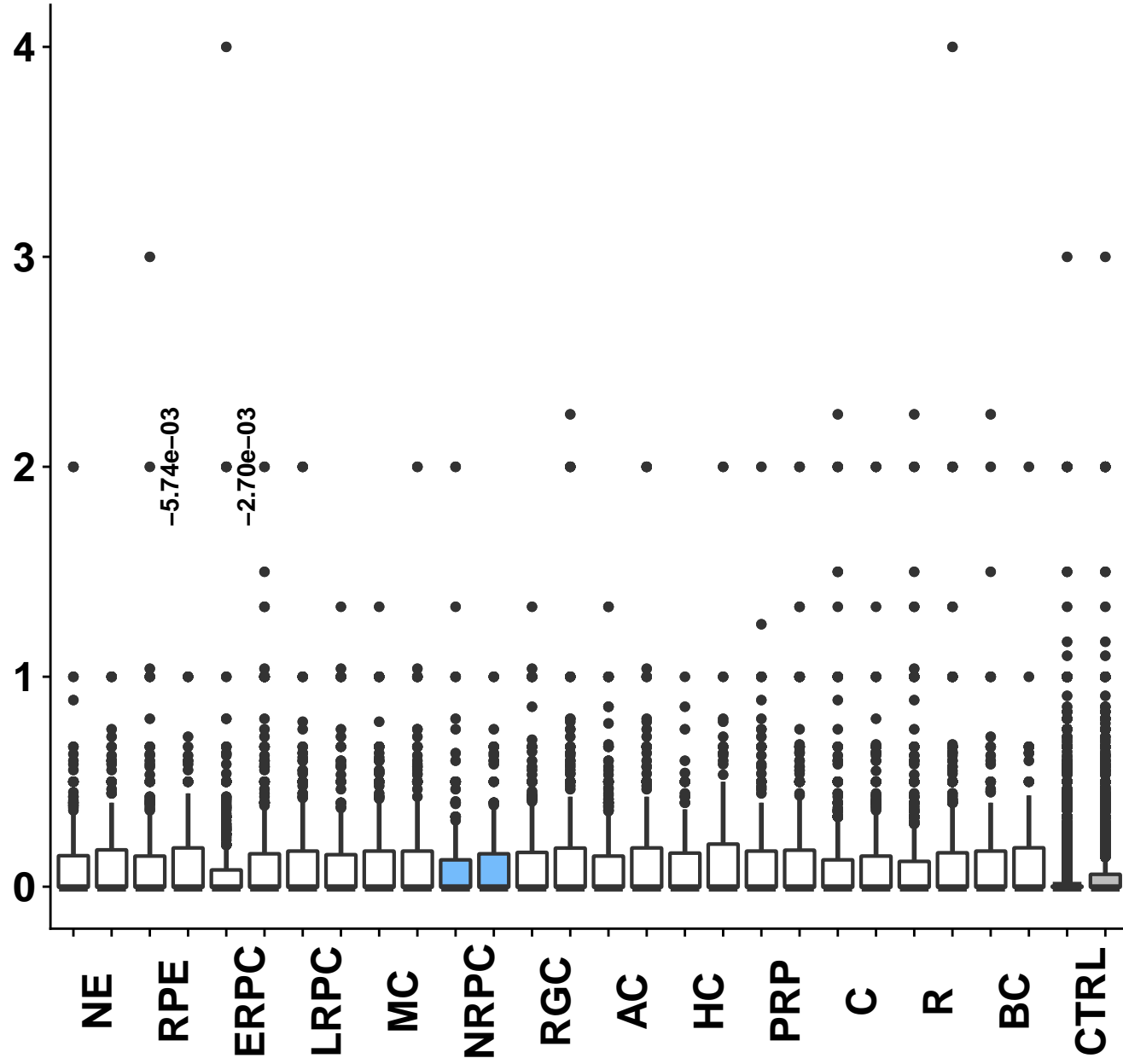
Smad2_3_mean



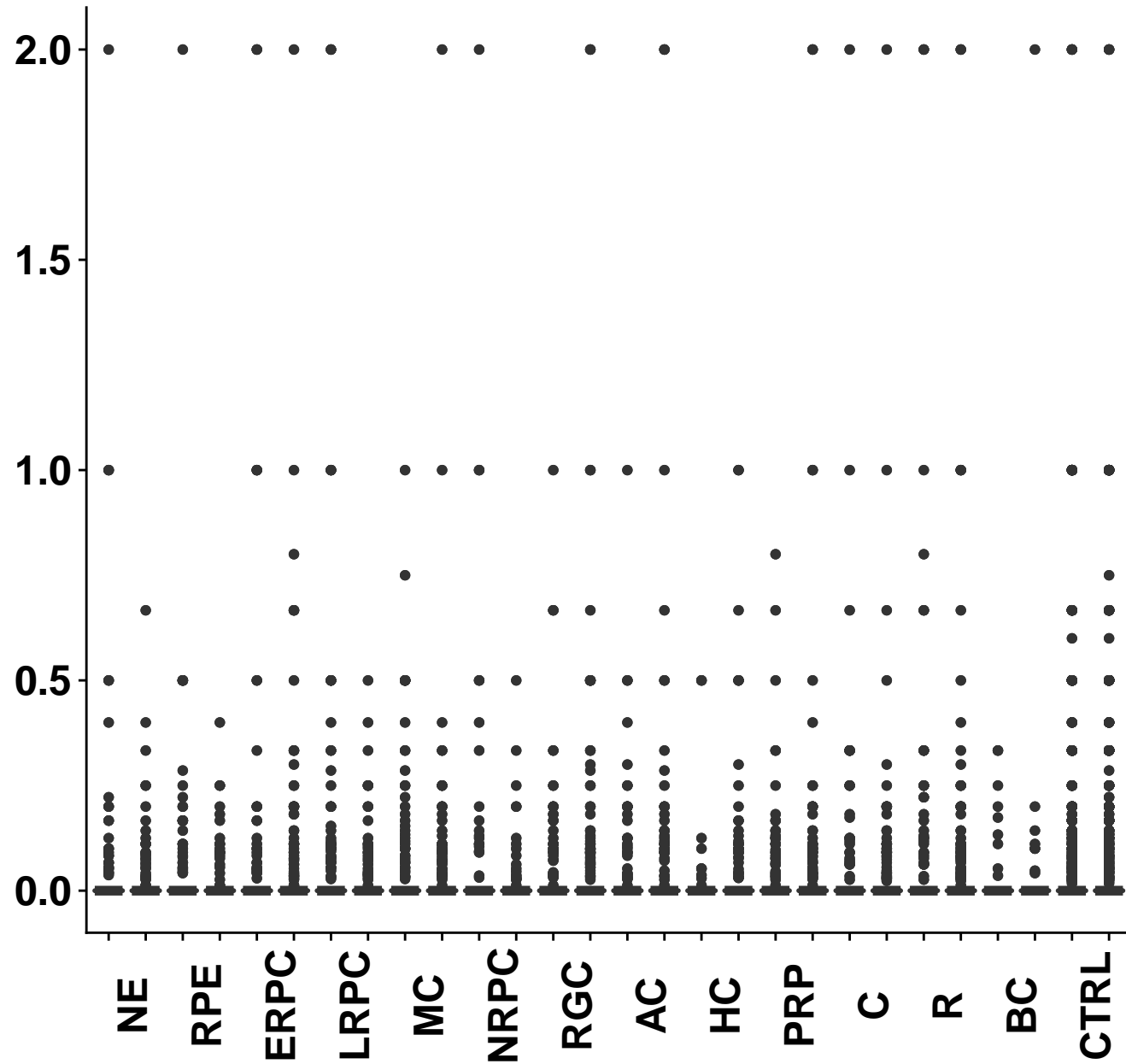
Dlx2_1_mean



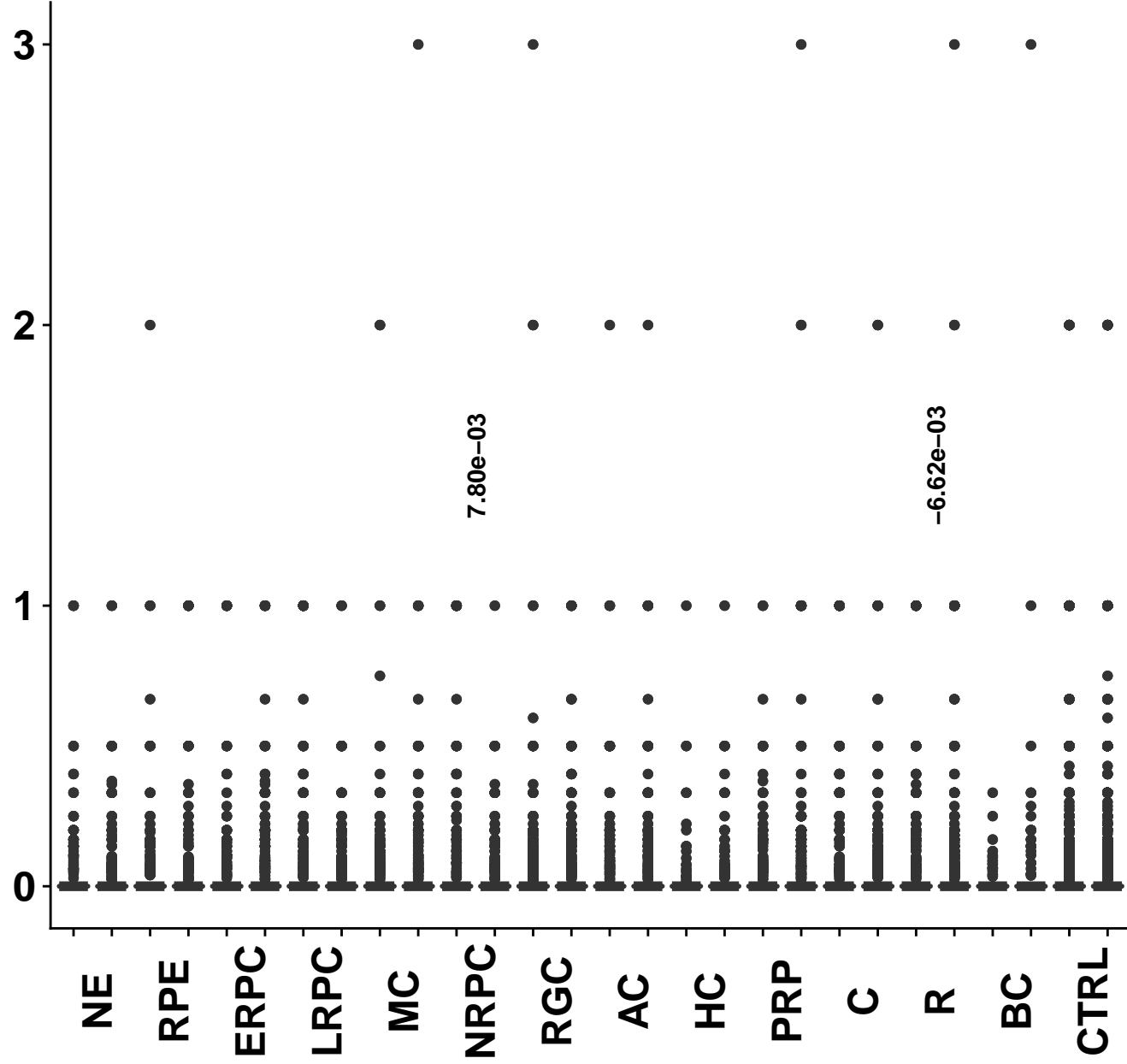
Dlx2_2_mean



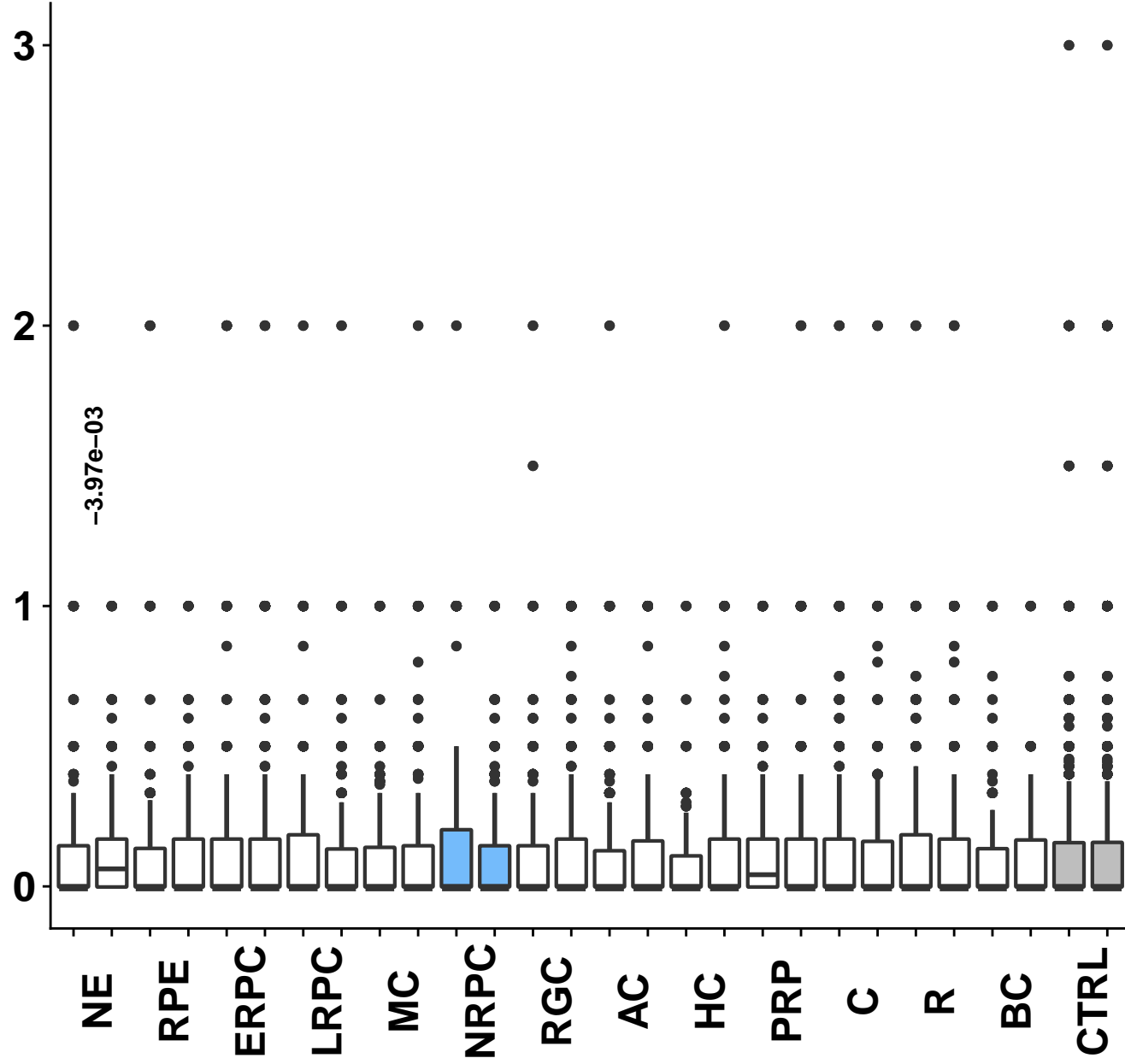
Mybl1_1_mean



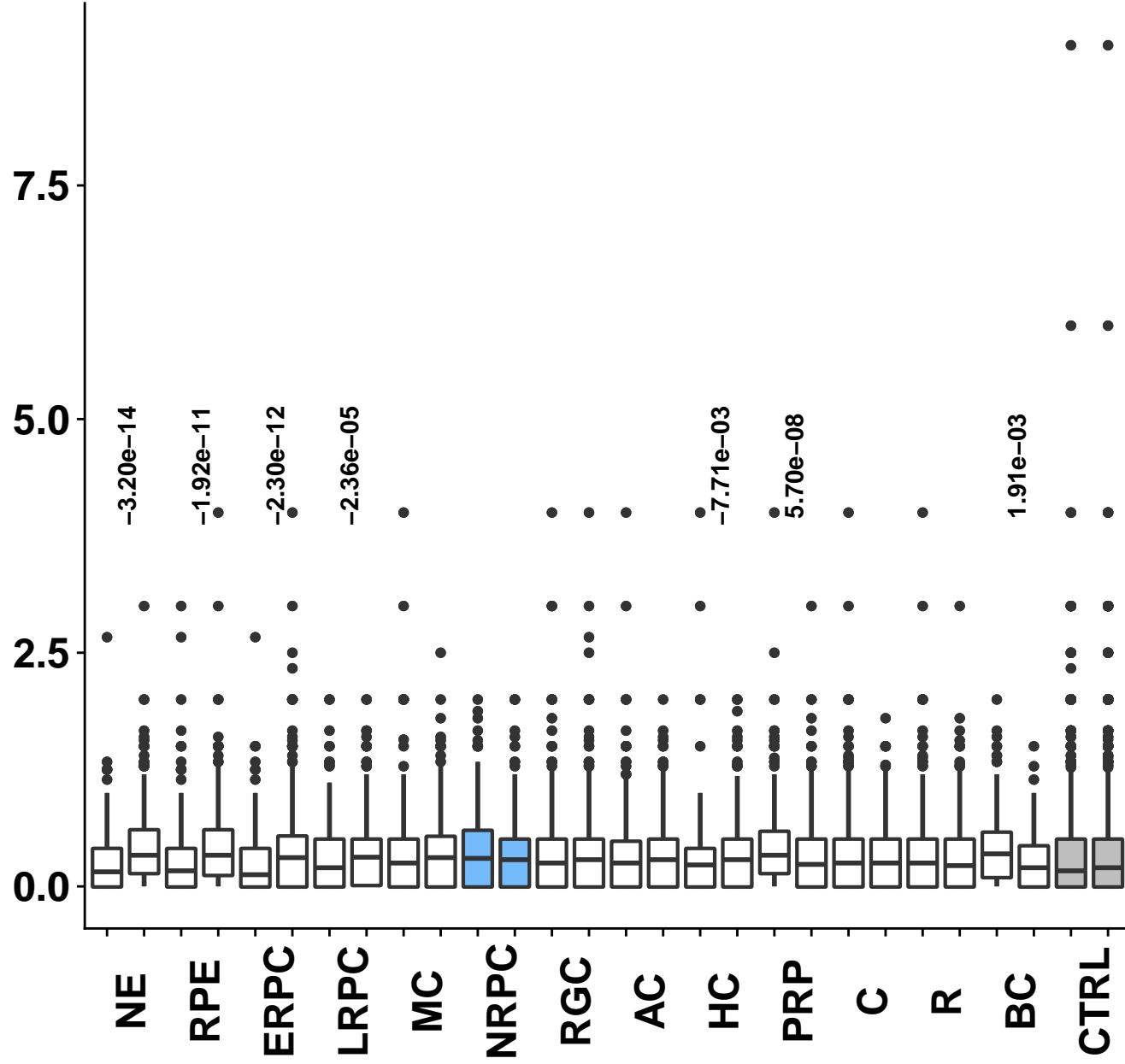
Mybl1_2_mean



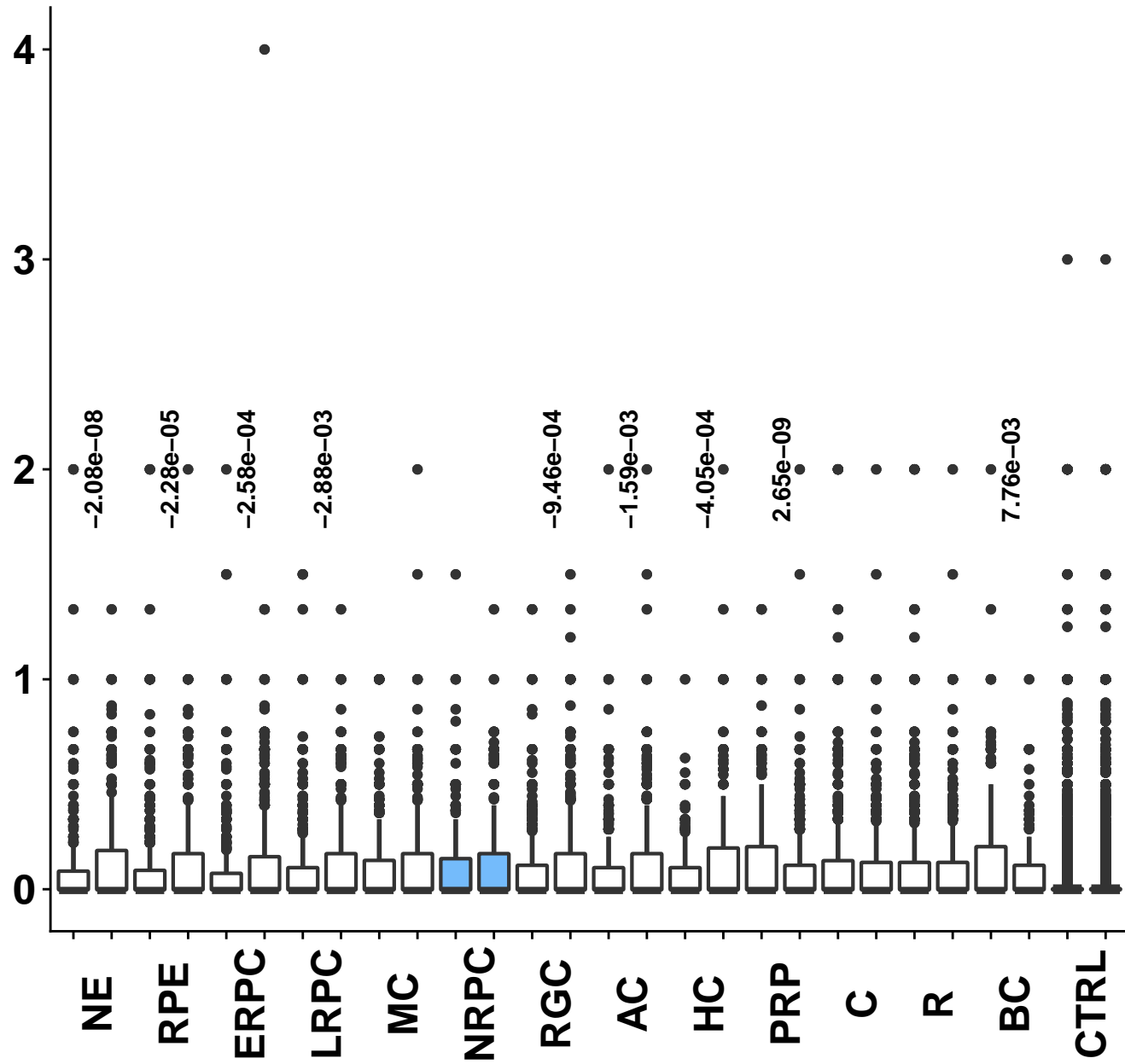
Mybl1_3_mean



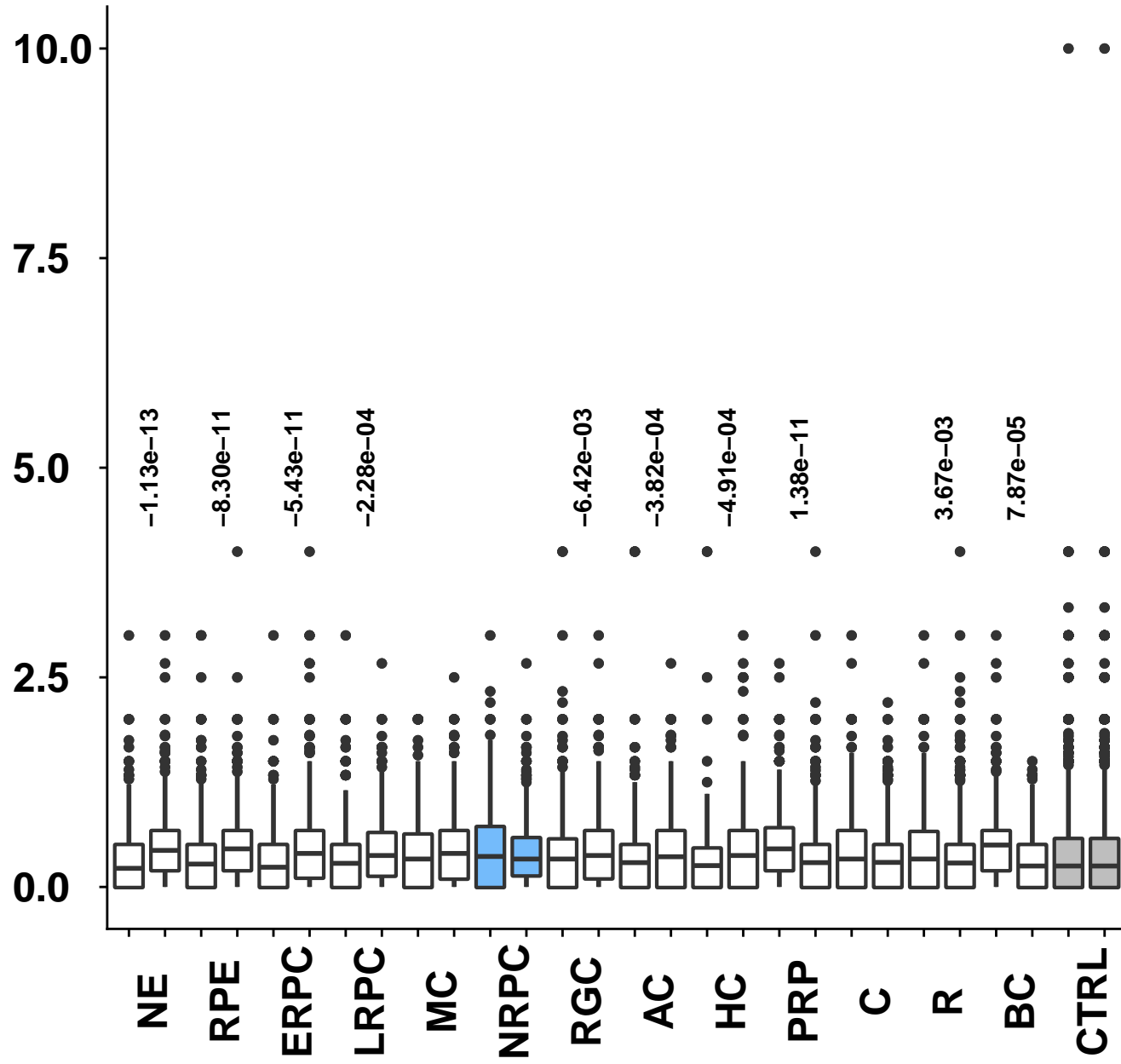
Neurog2_1_mean



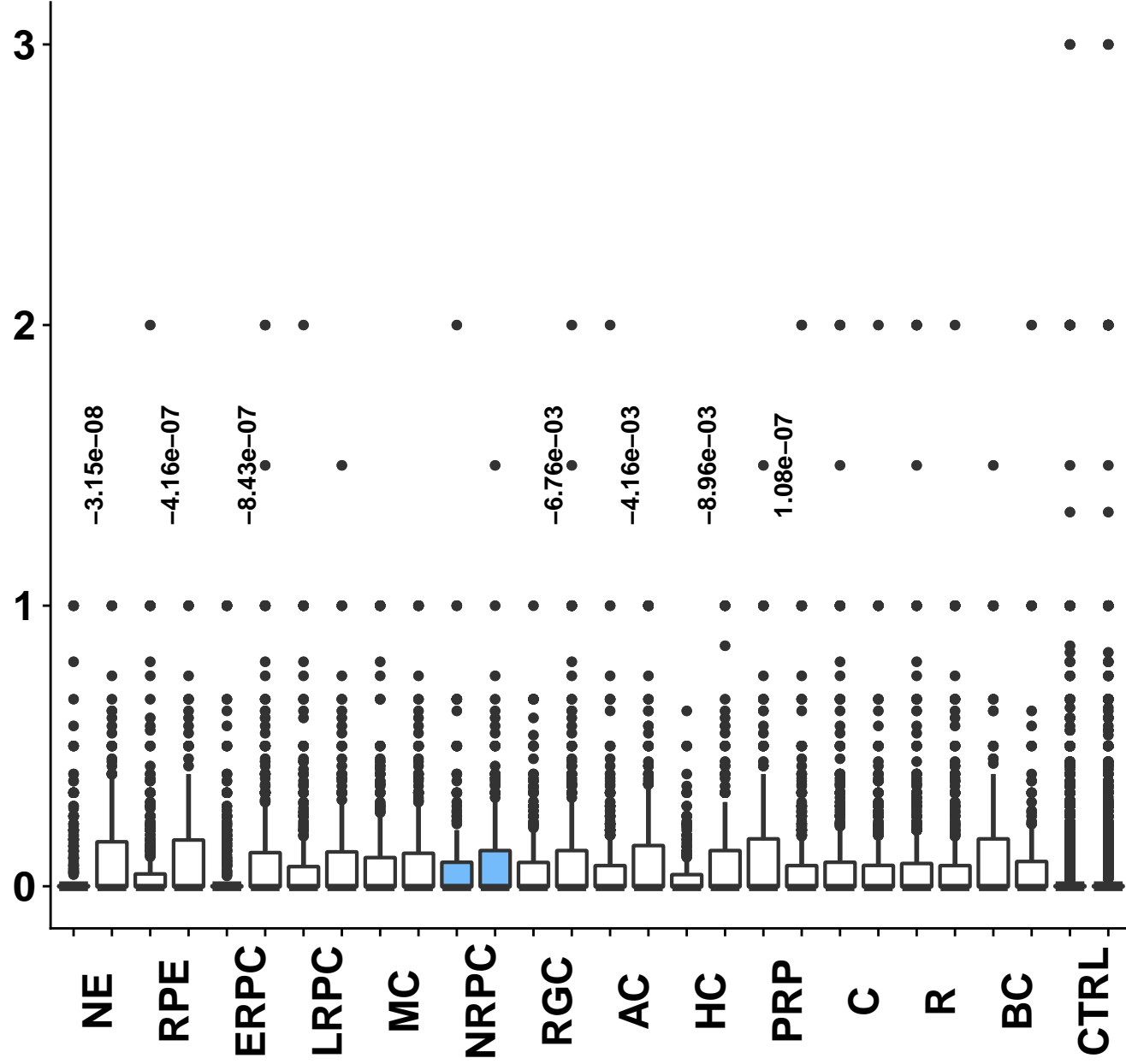
Neurog2_2_mean



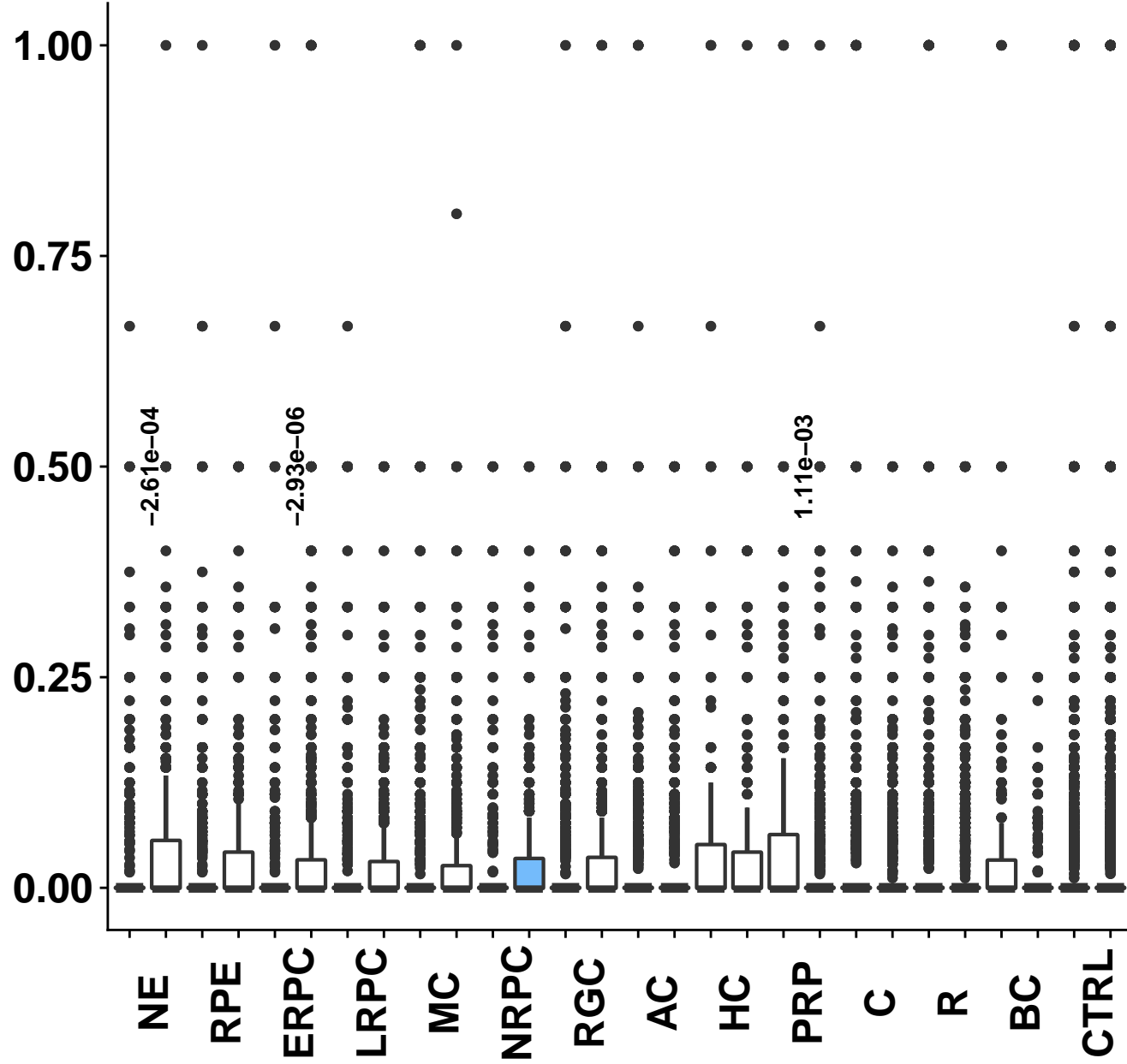
Olig2_1_mean



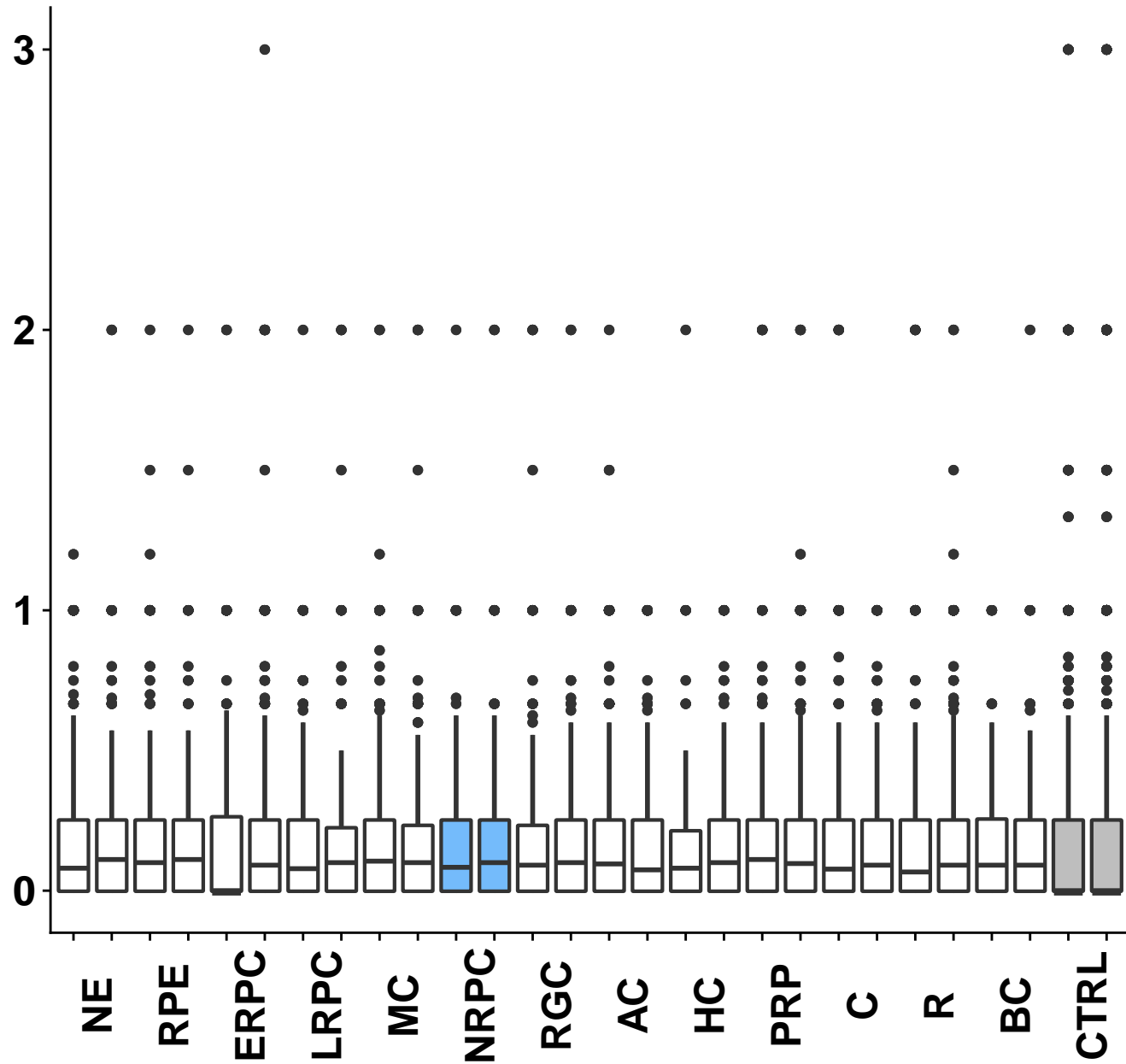
Olig2_2_mean



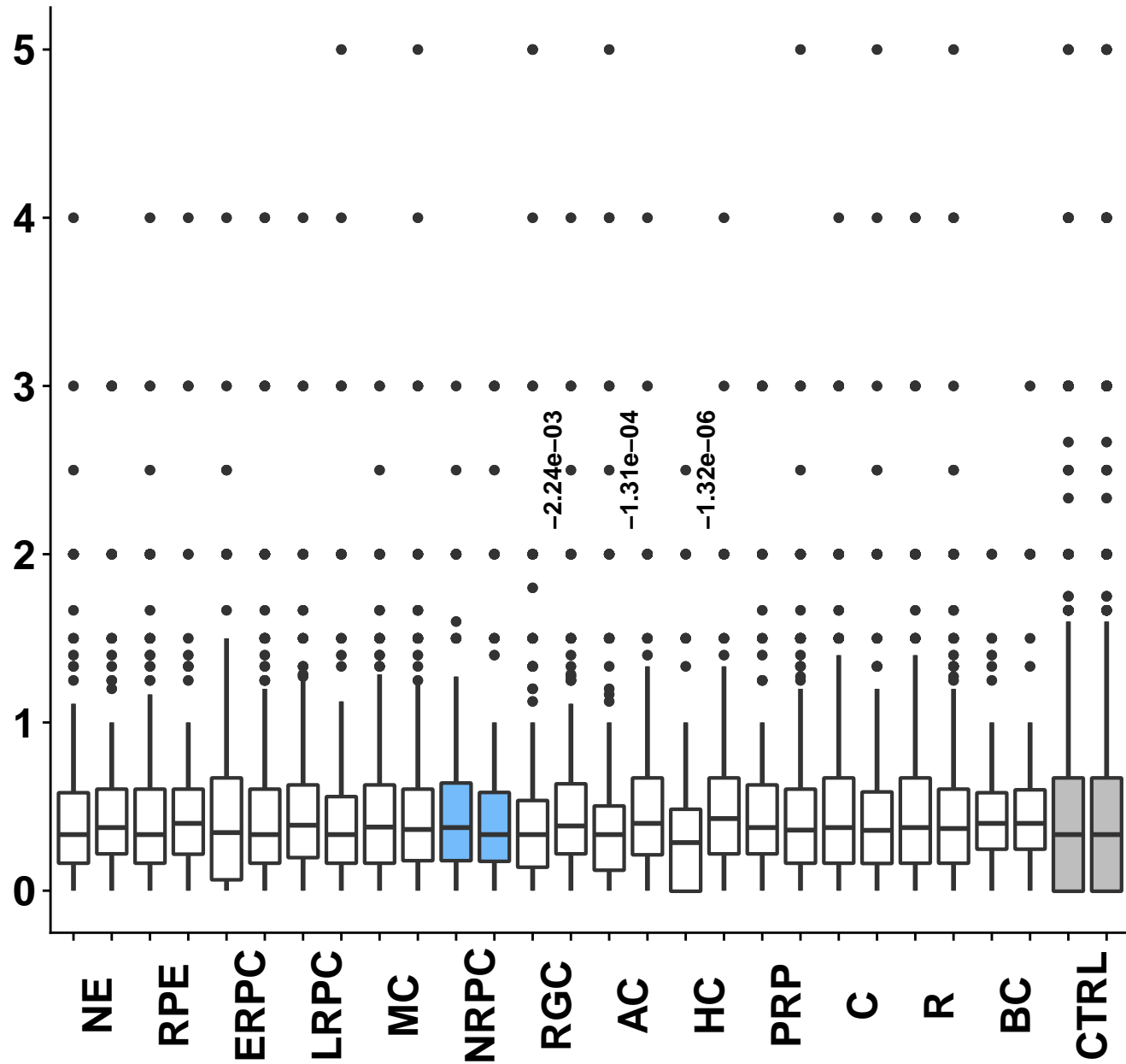
Rbpj_1_mean



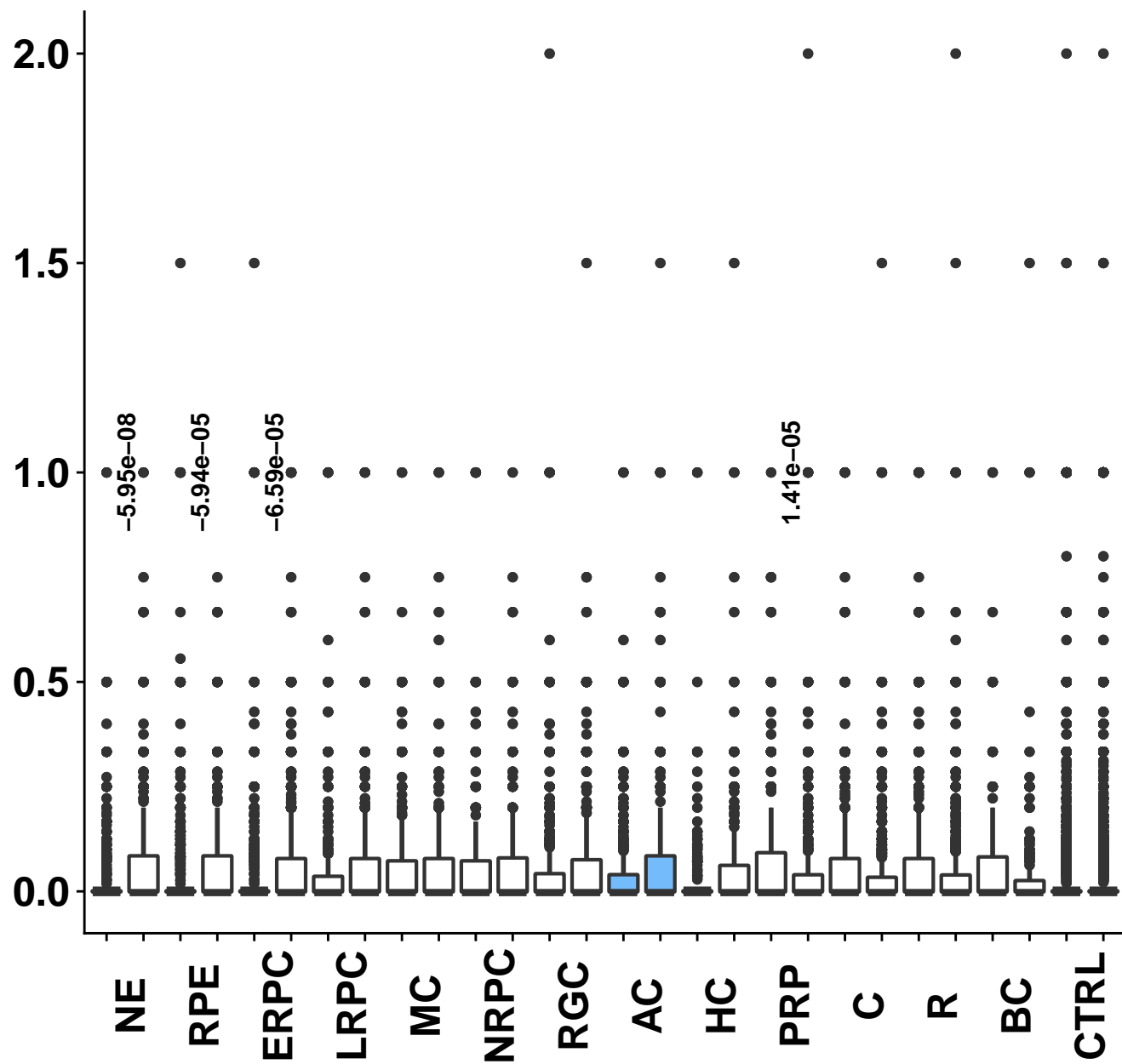
Rbpj_2_mean



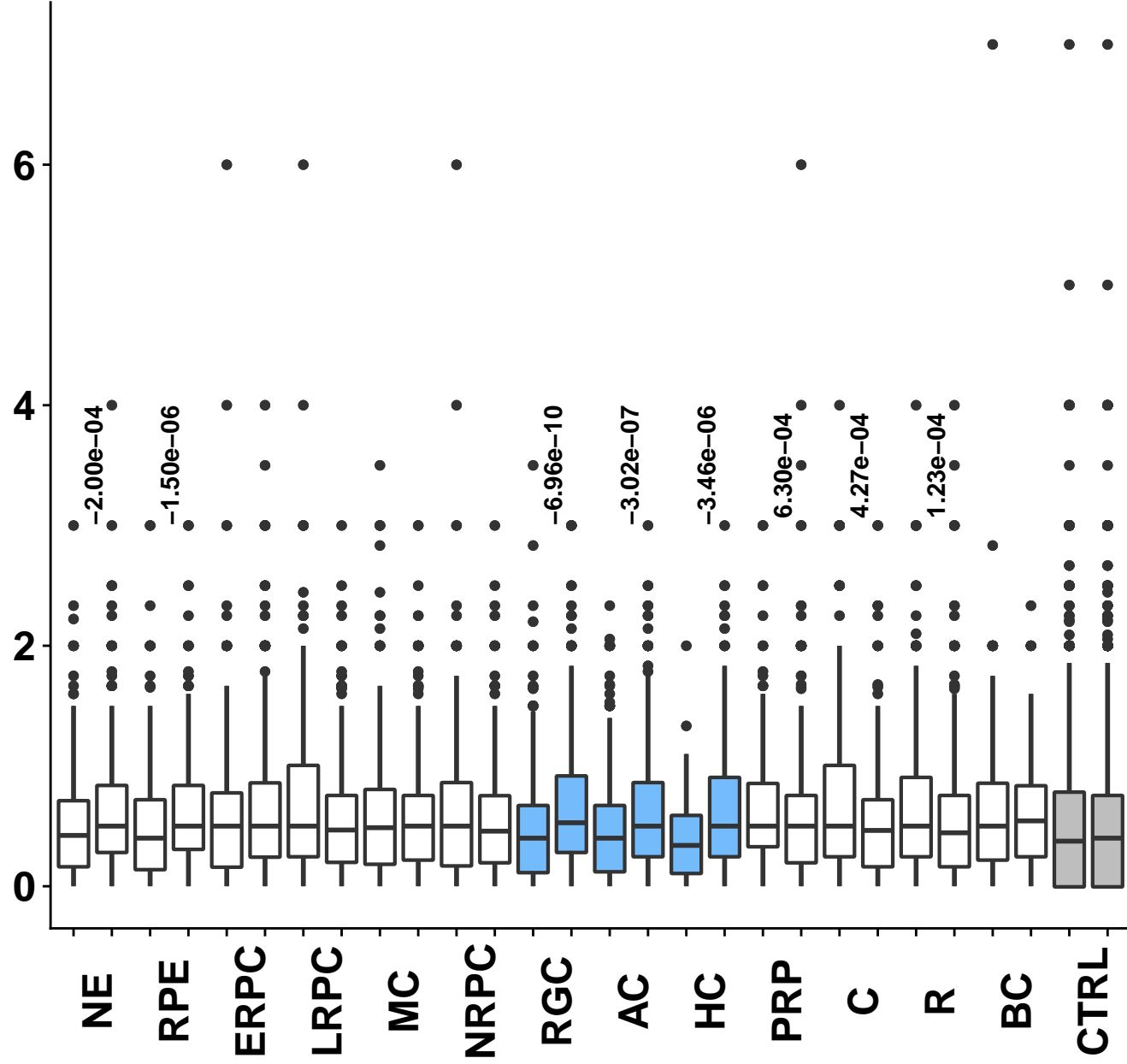
Rbpj_3_mean



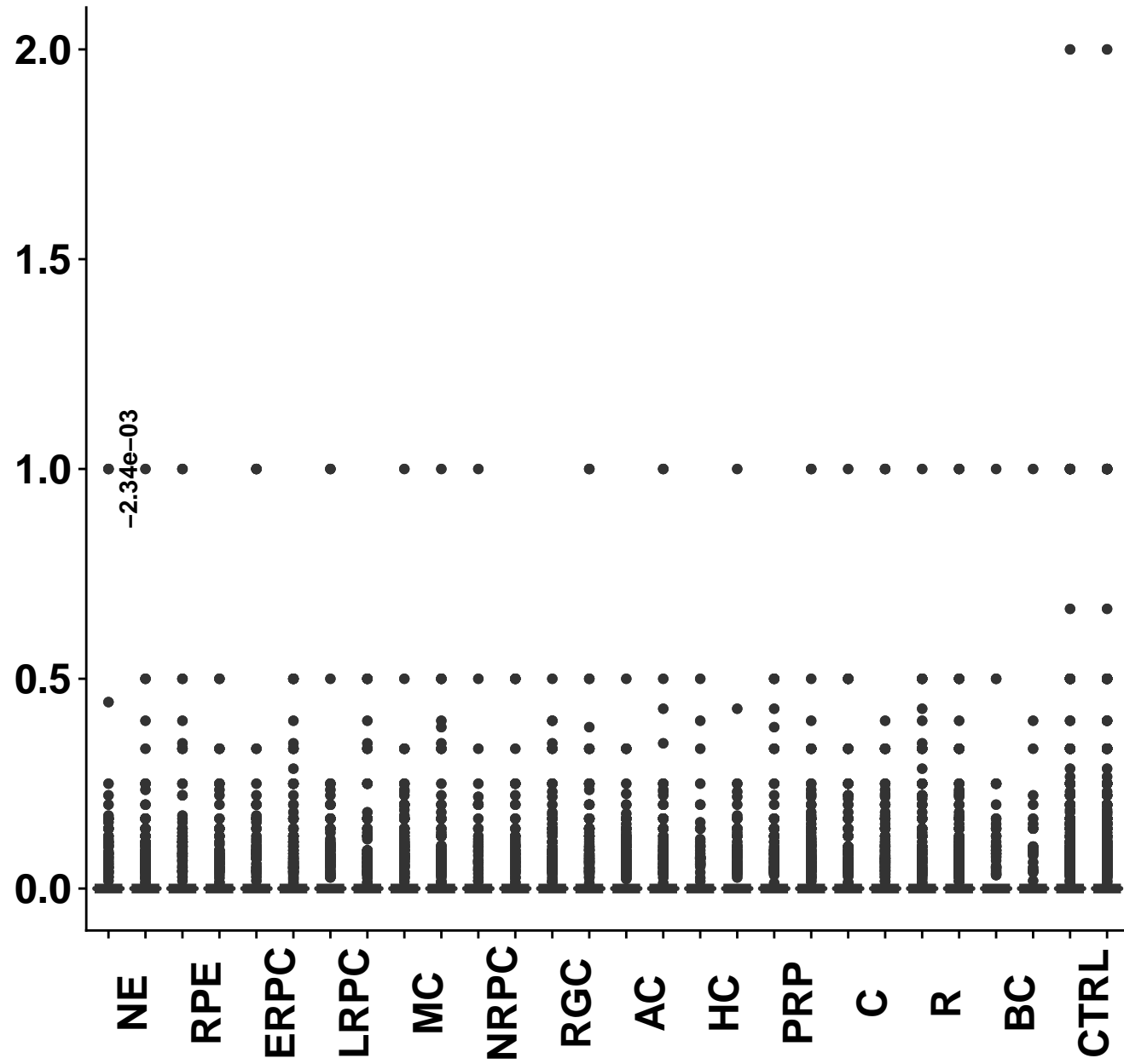
Thra_1_mean



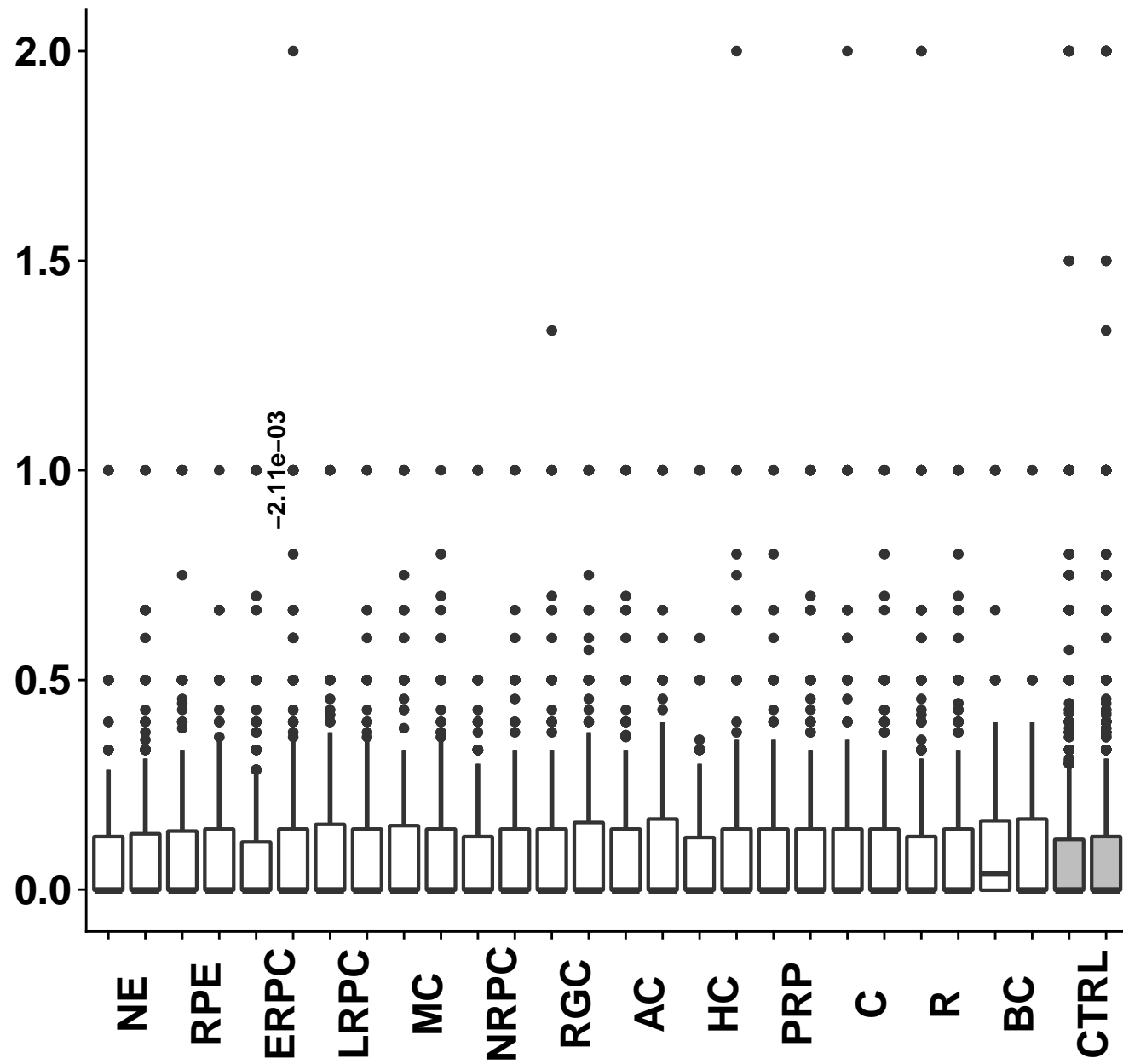
Barhl2_1_mean



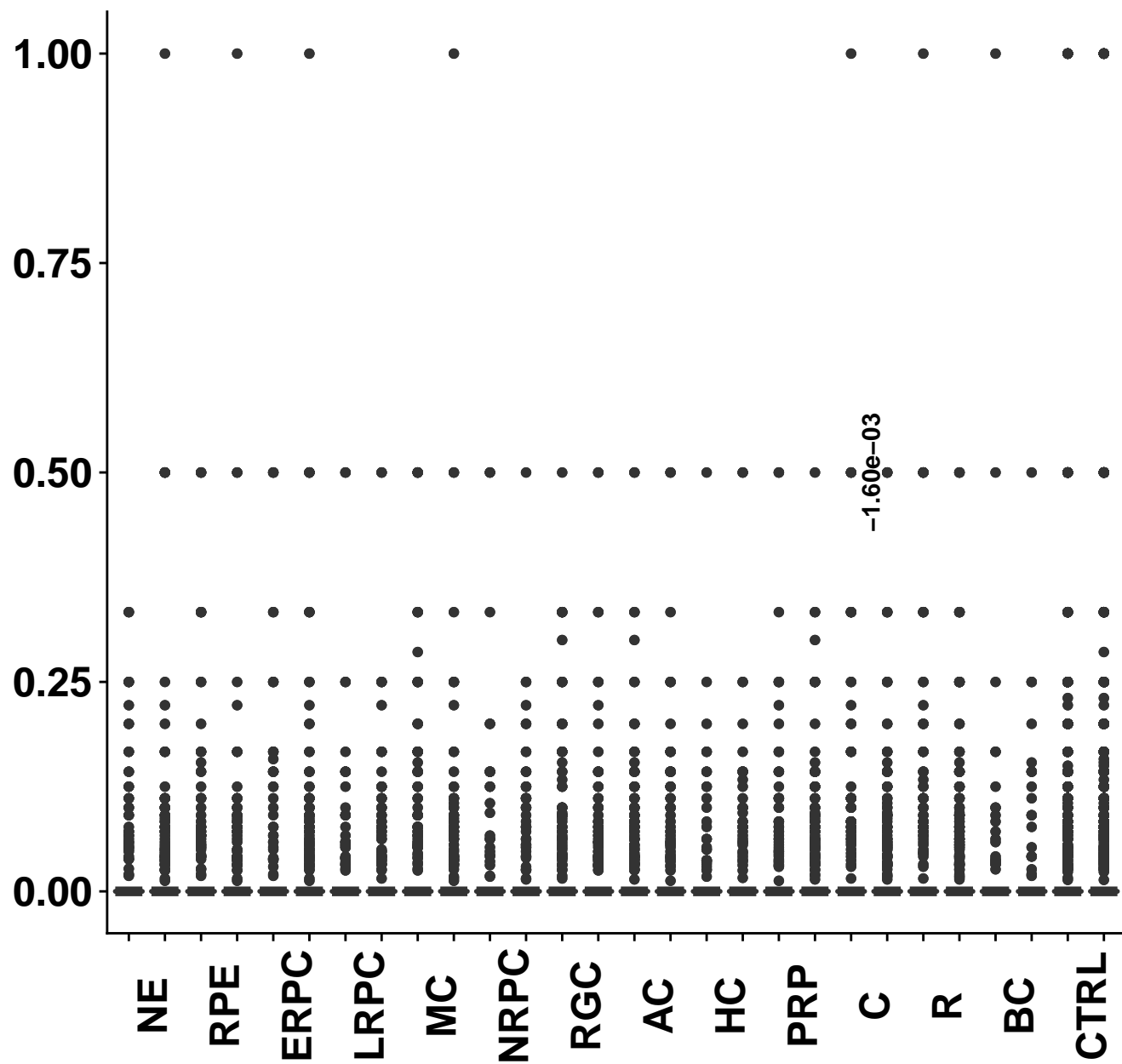
Barhl2_2_mean



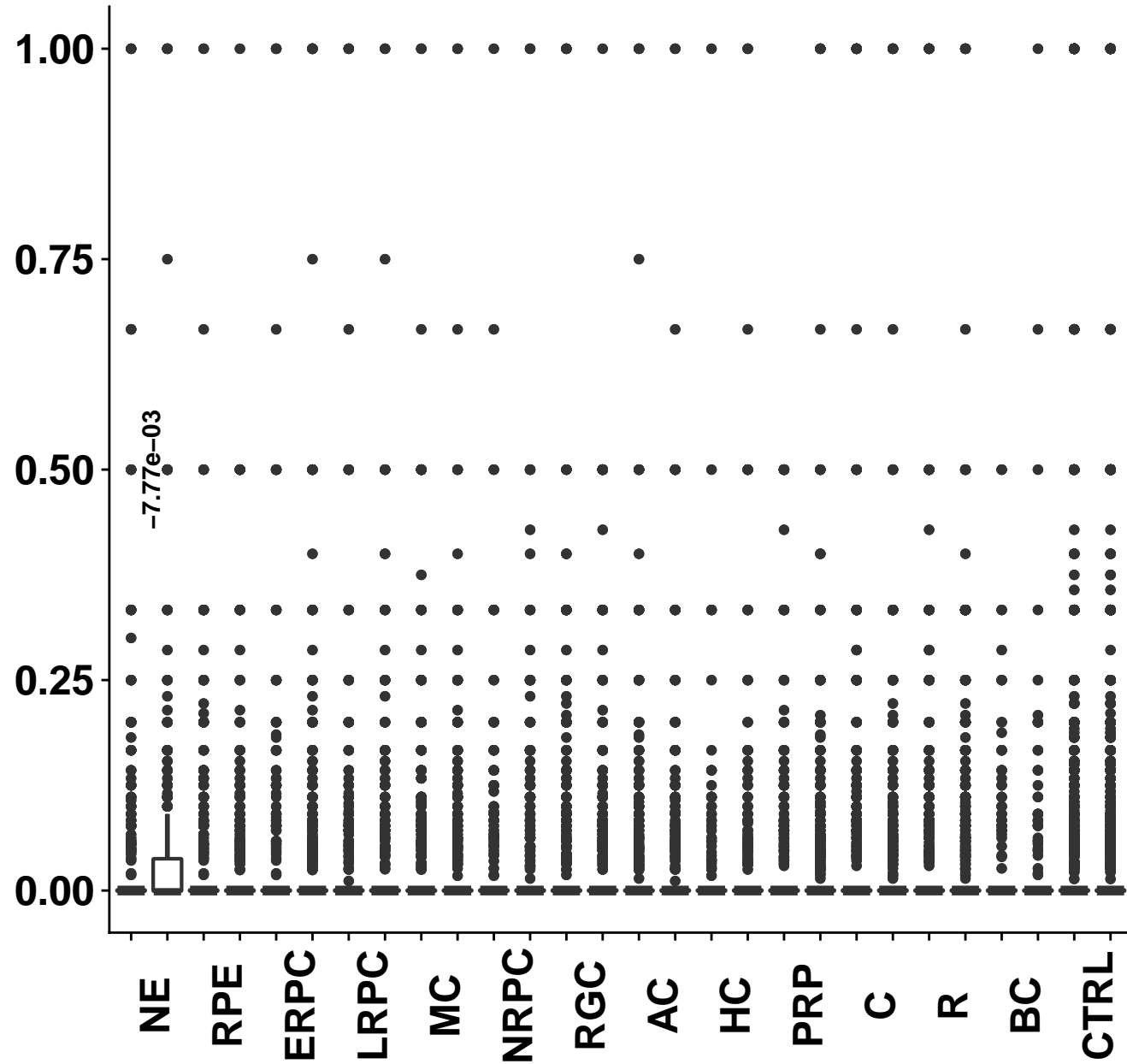
Bcl11a_1_mean



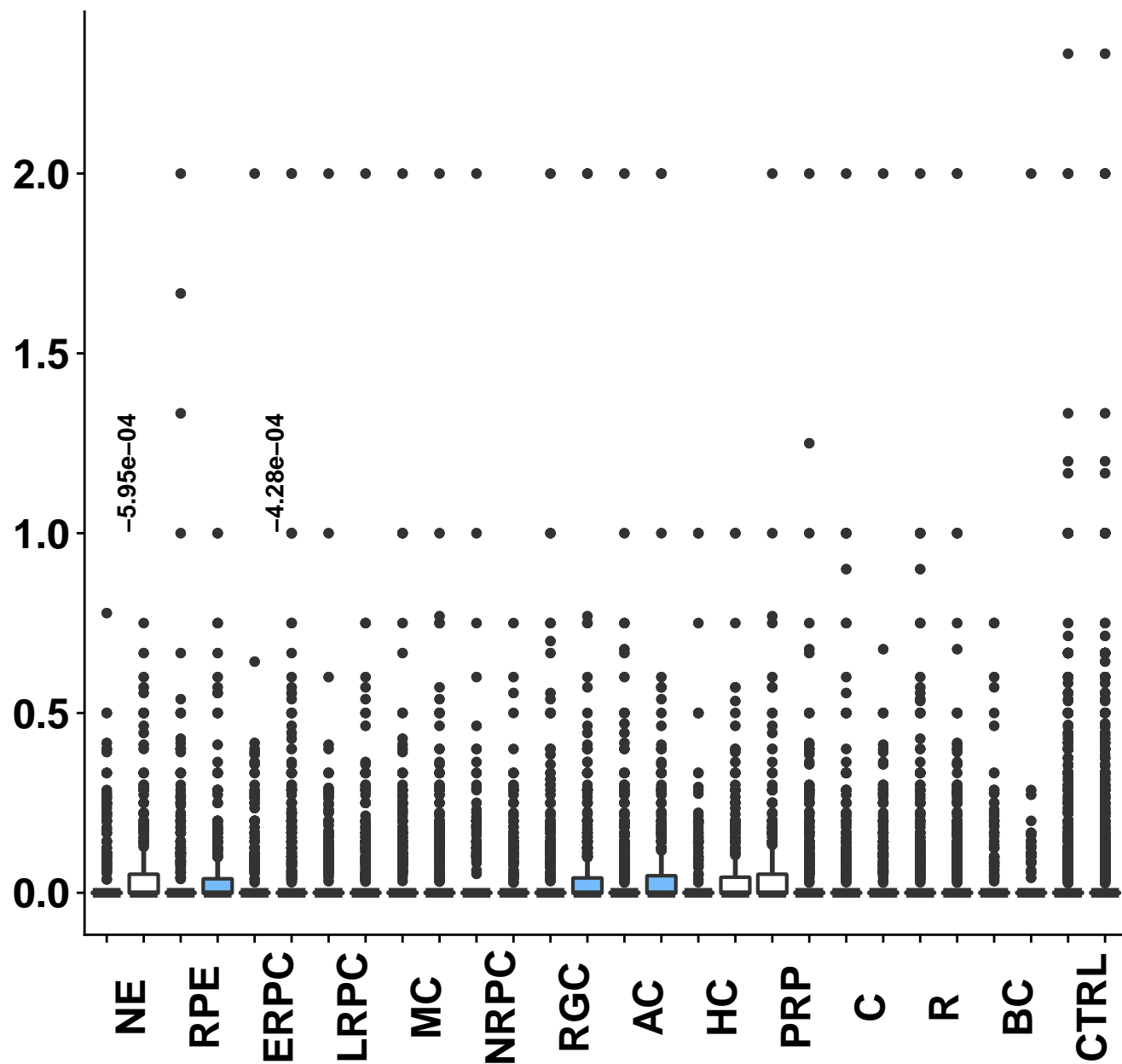
Pax6_1_mean



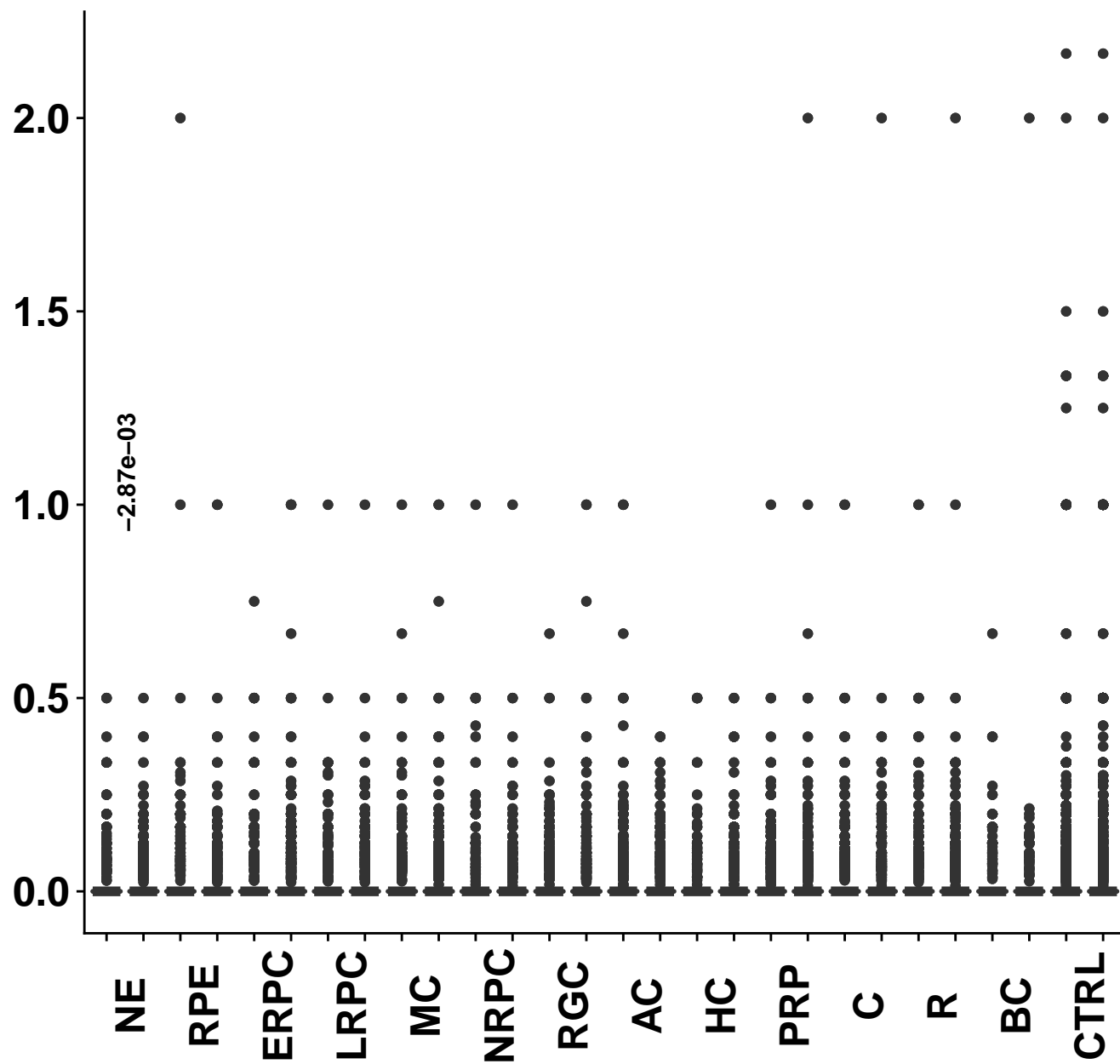
Pax6_2_mean



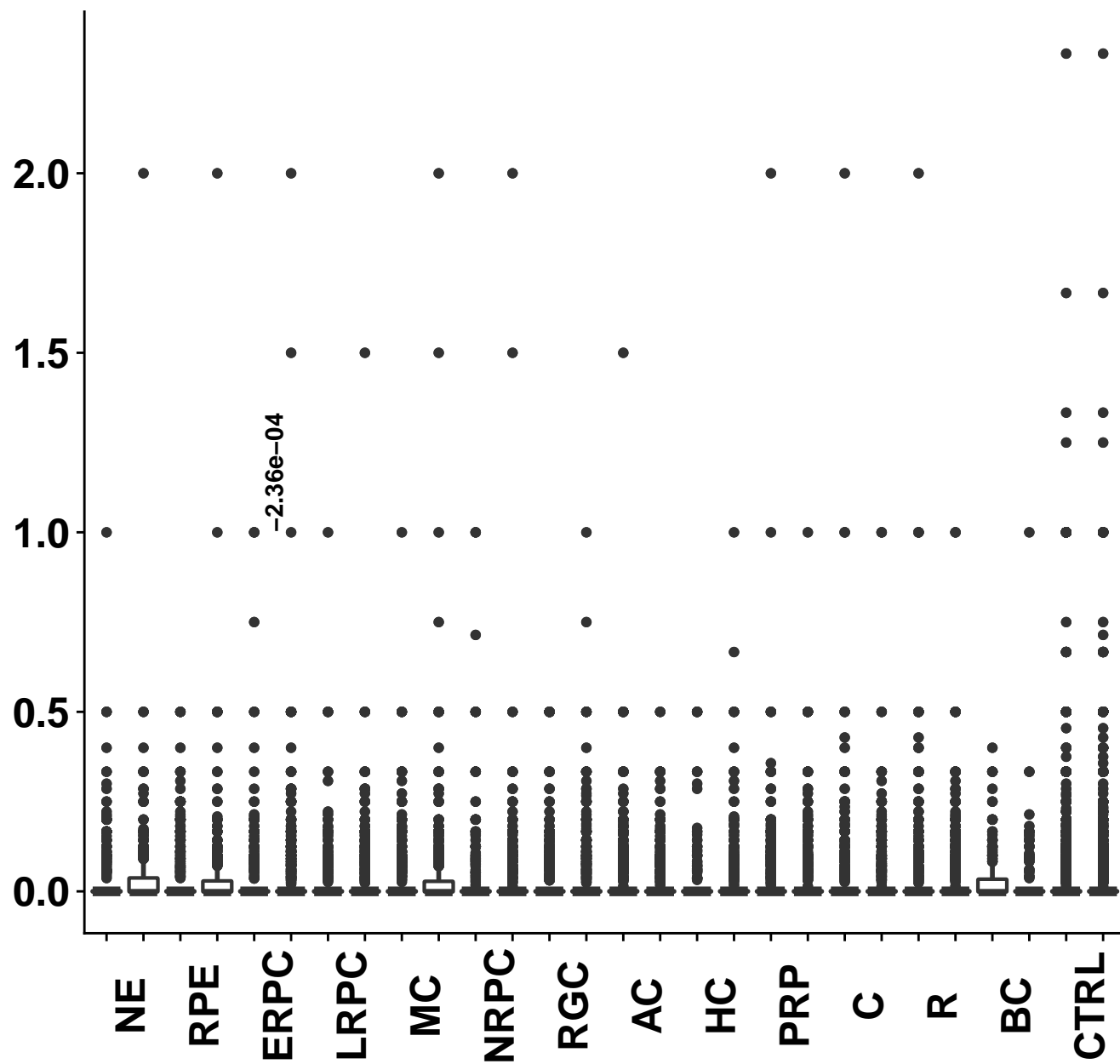
Pax6_3_mean



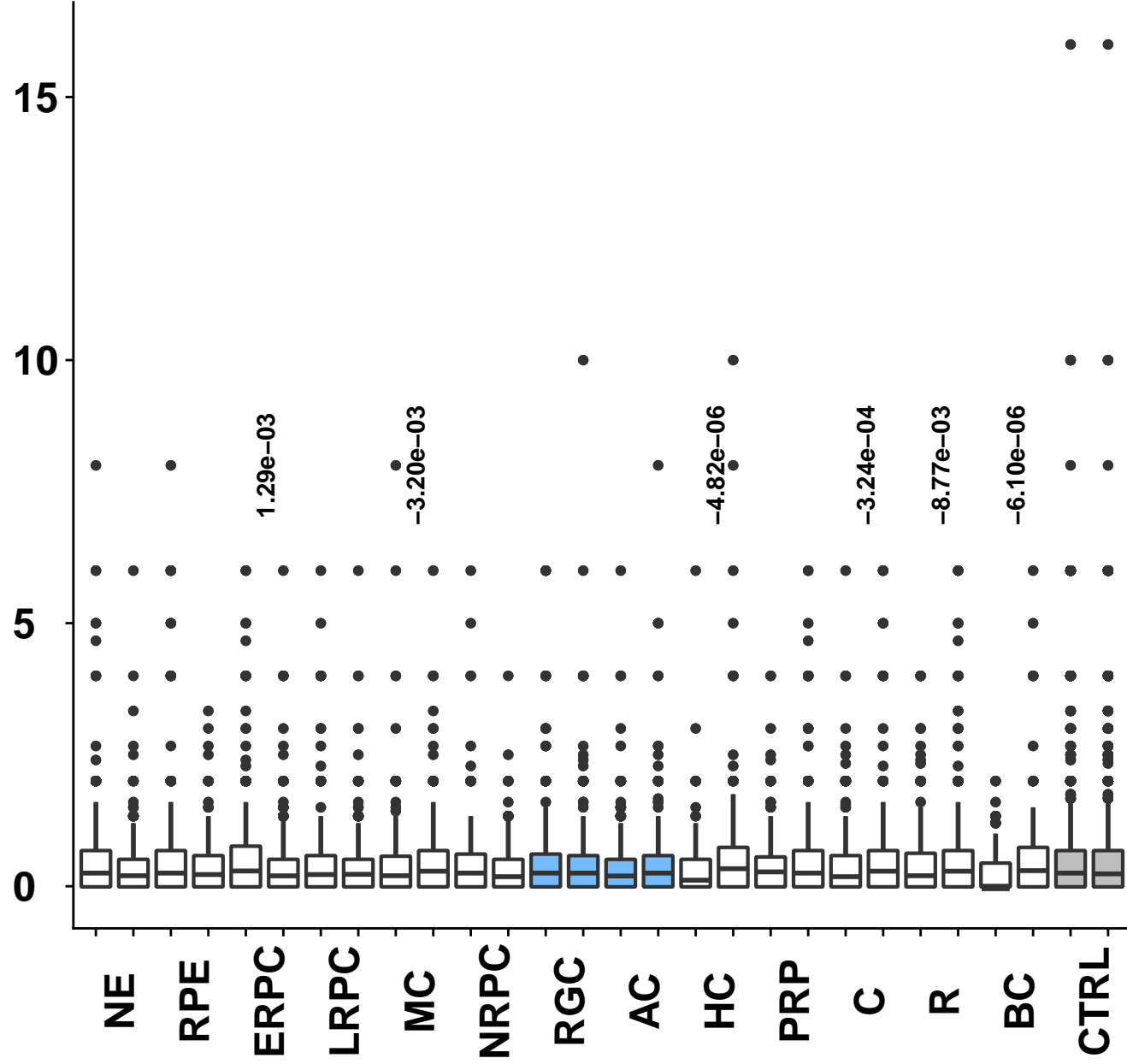
Pou2f2_1_mean



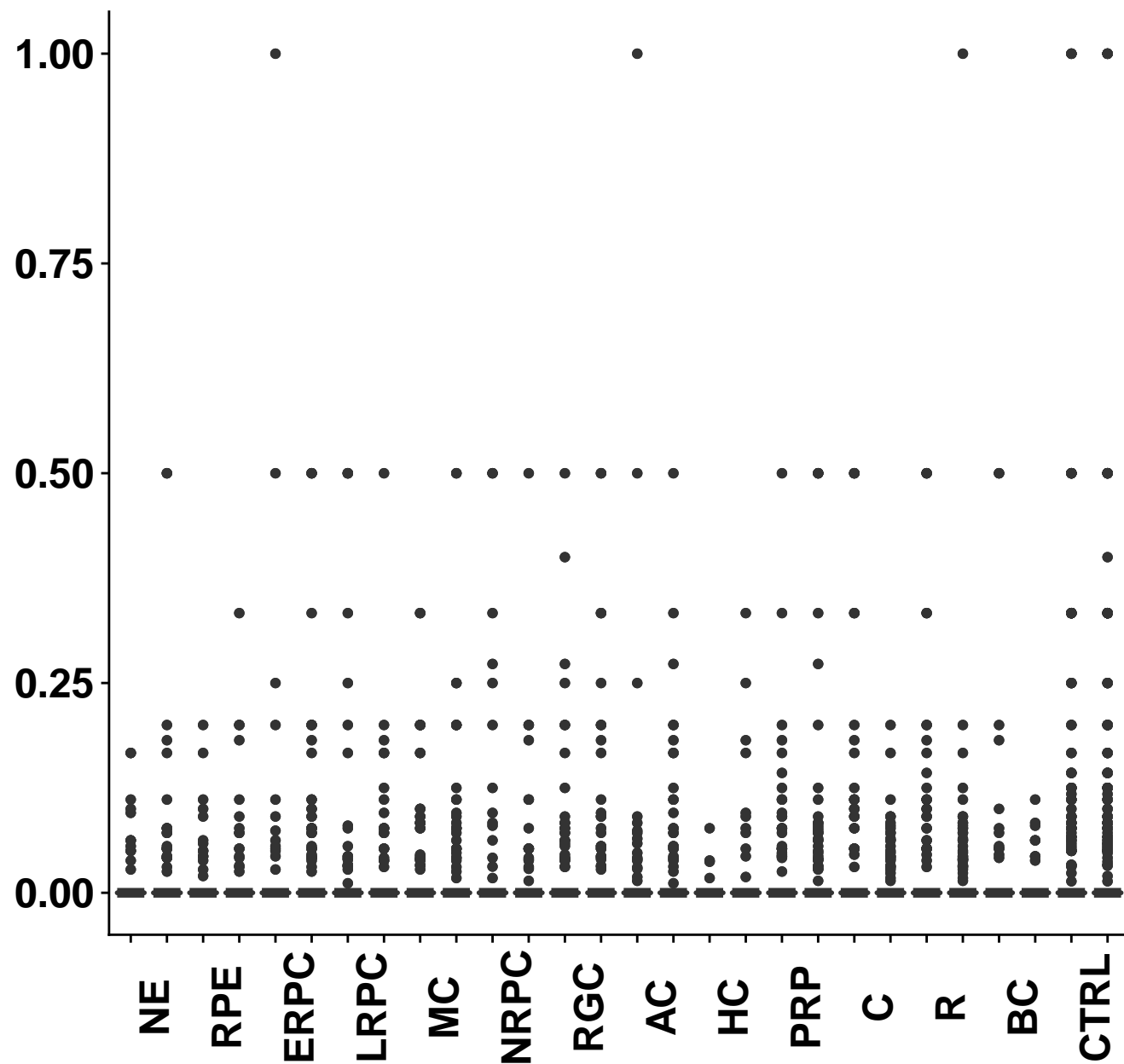
Pou2f2_2_mean



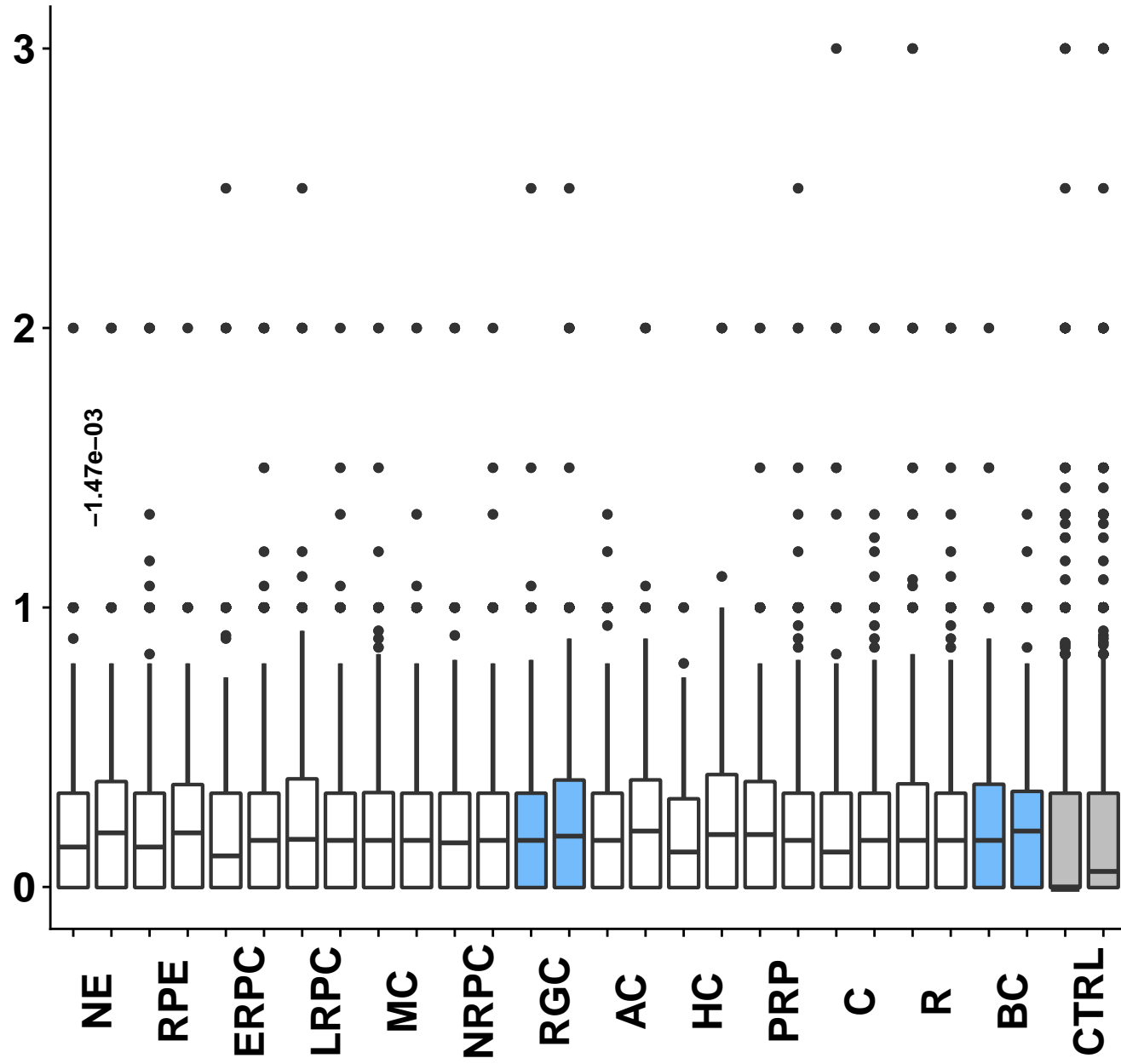
Mycn_1_mean



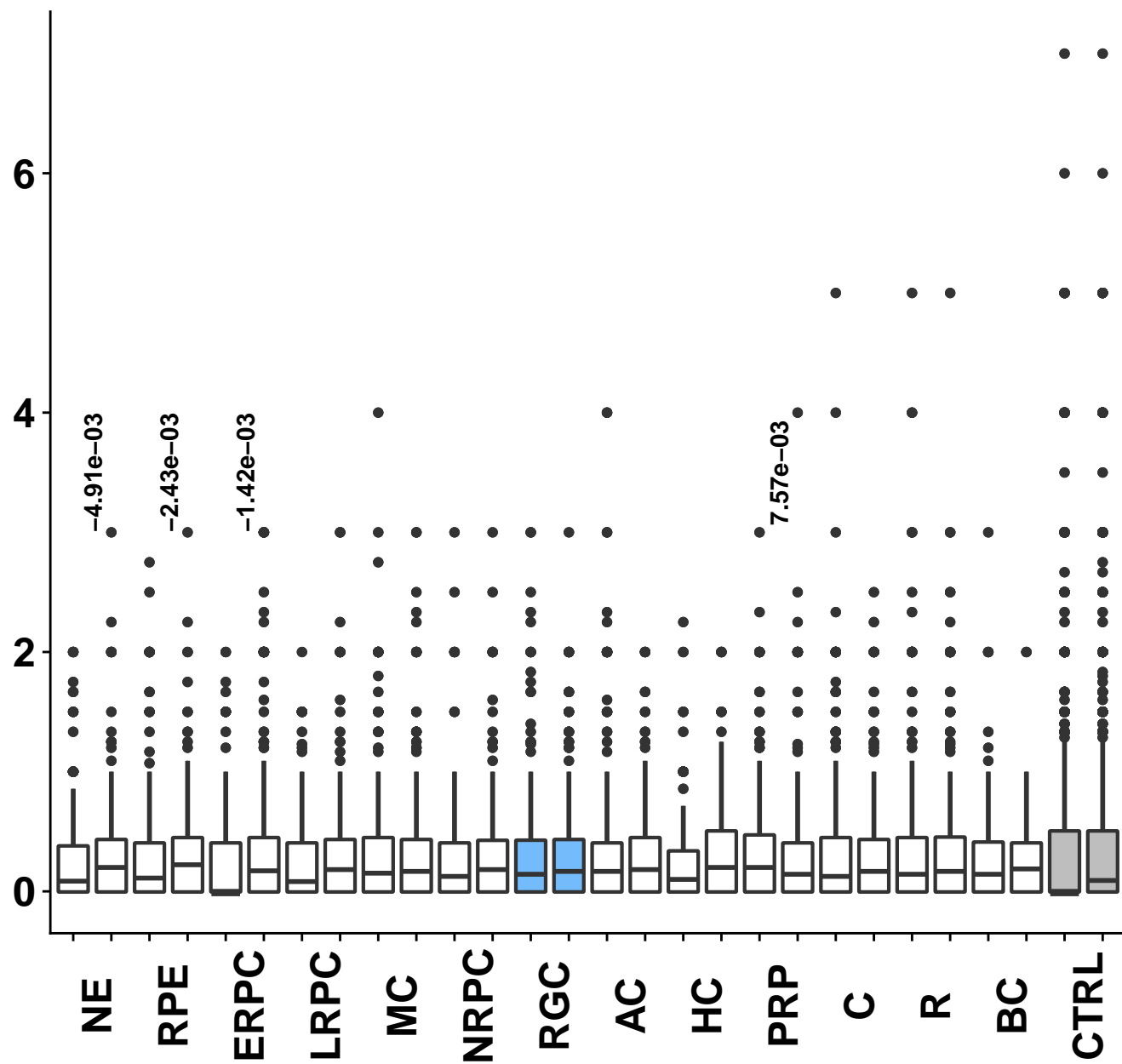
Onecut2_1_mean



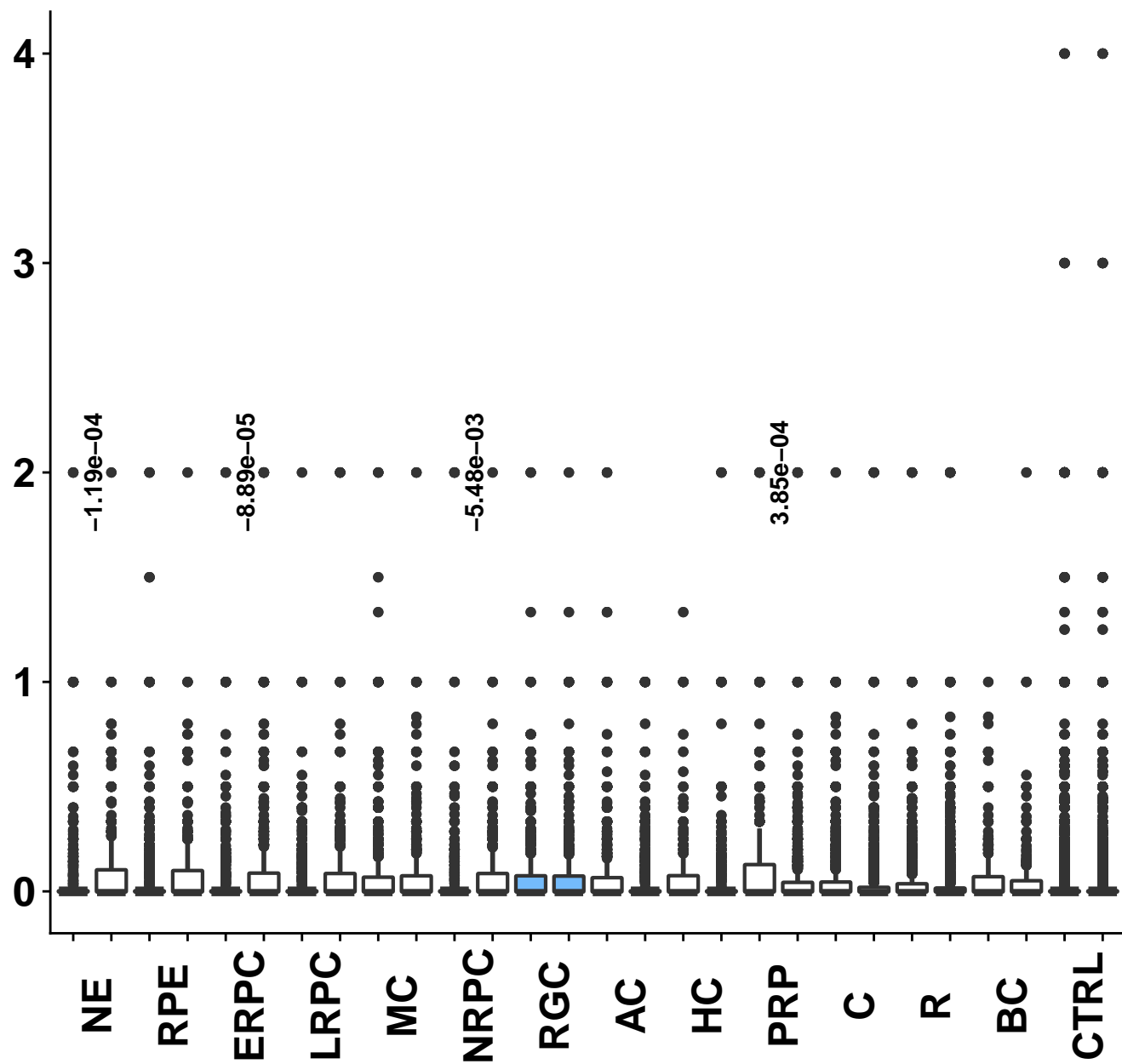
Isl1_1_mean



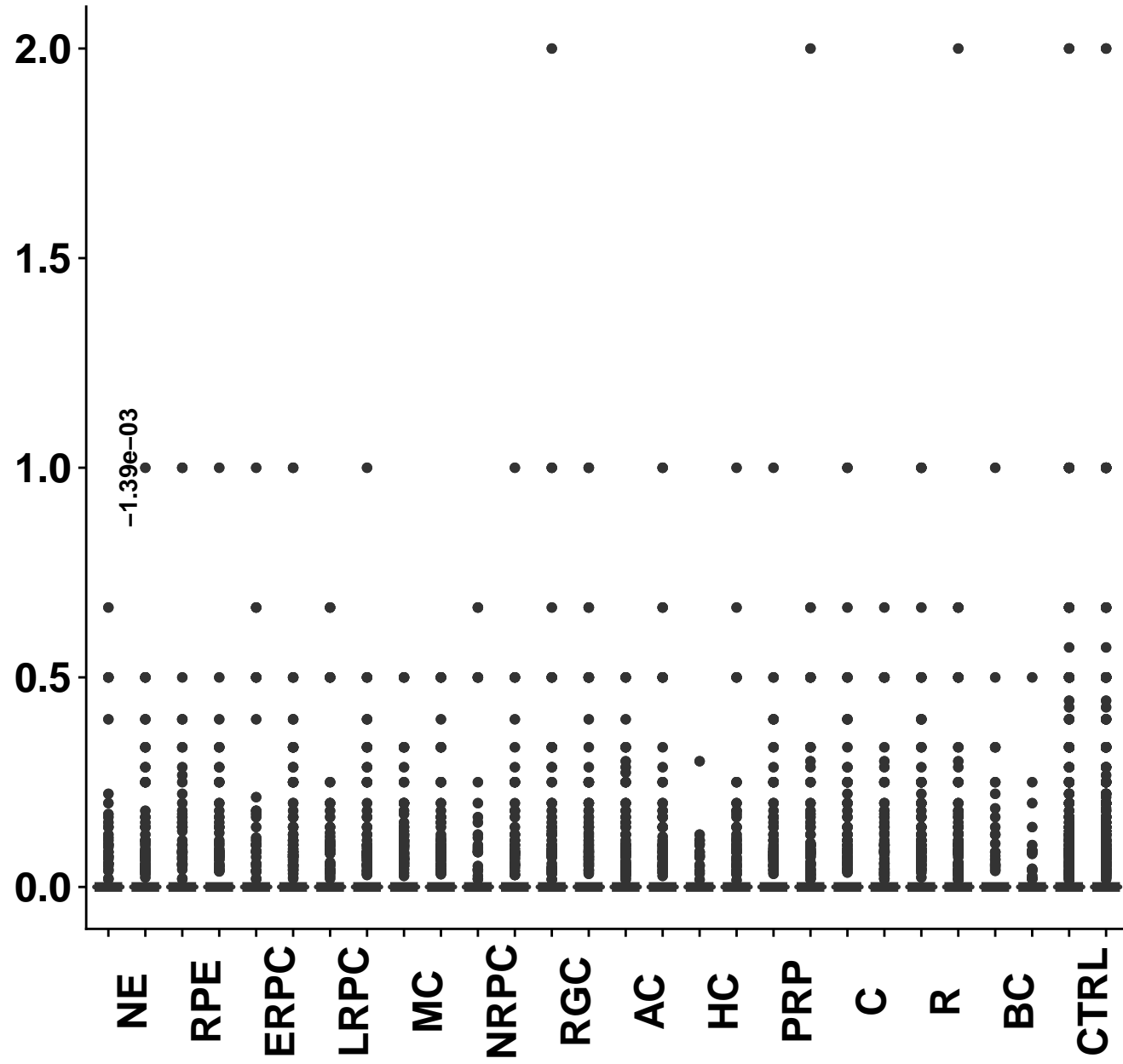
Ebf1_1_mean



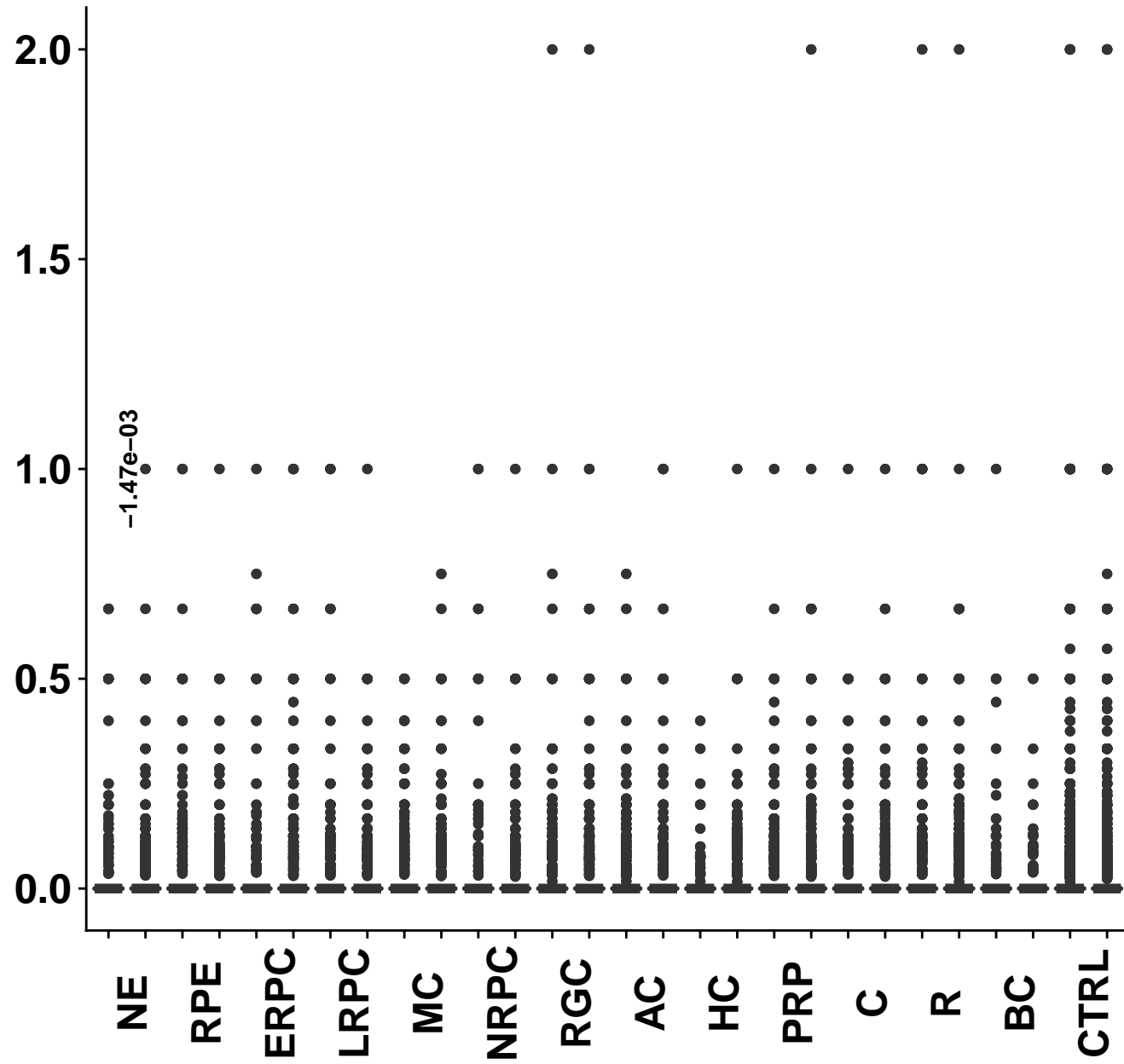
Ebf1_3_mean



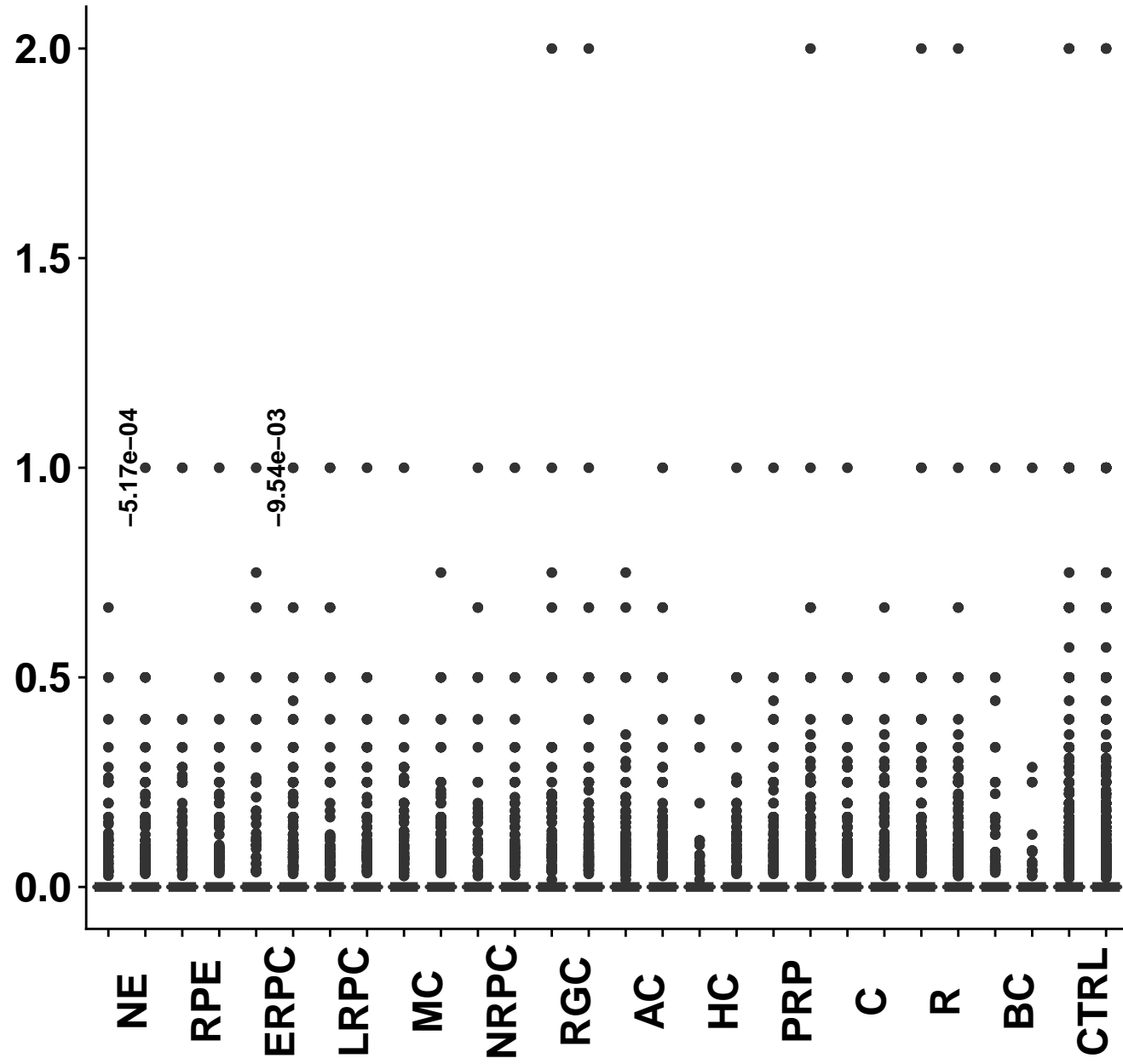
Irx2_1_mean



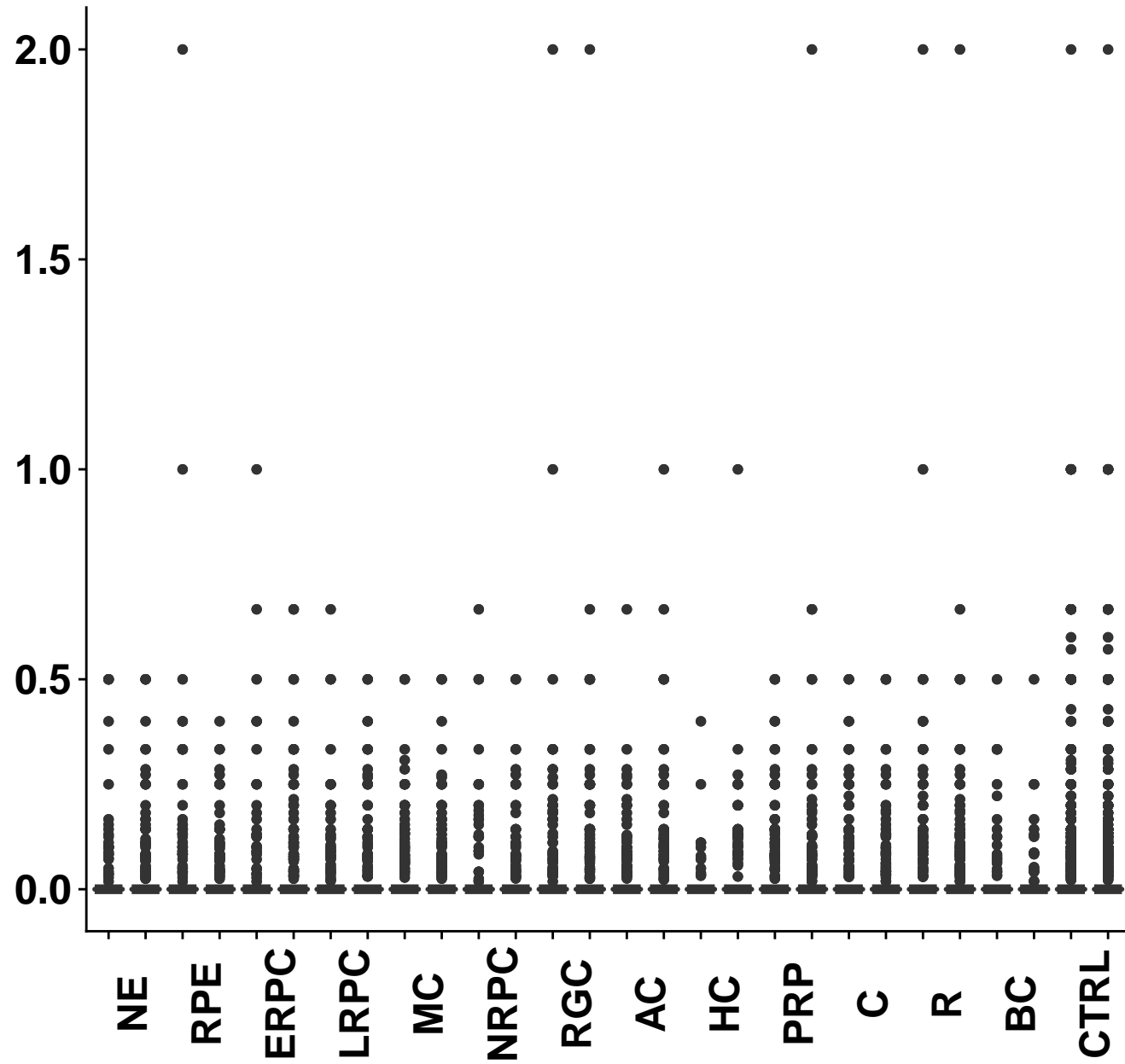
Irx3_1_mean



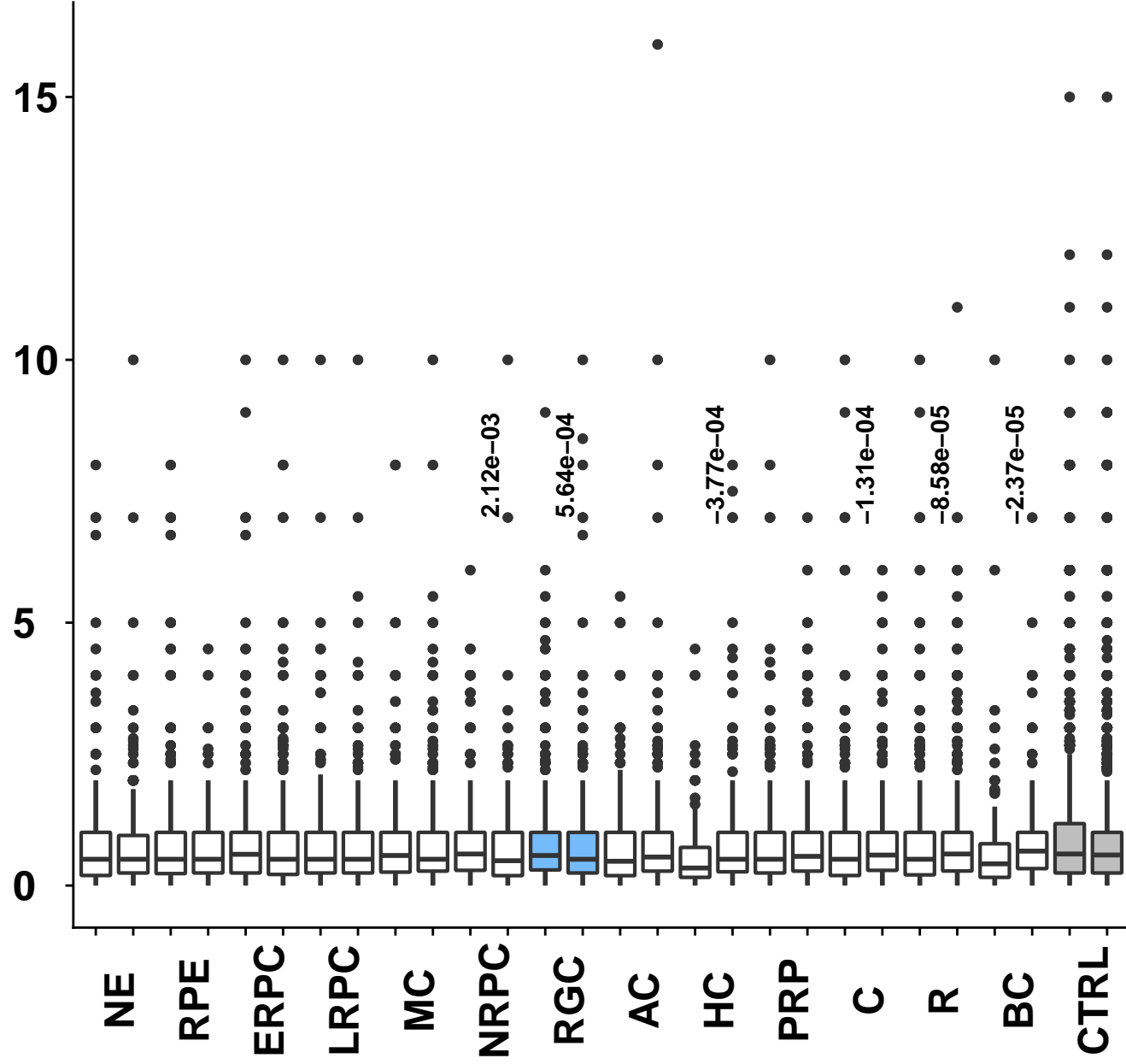
lrx3_2_mean



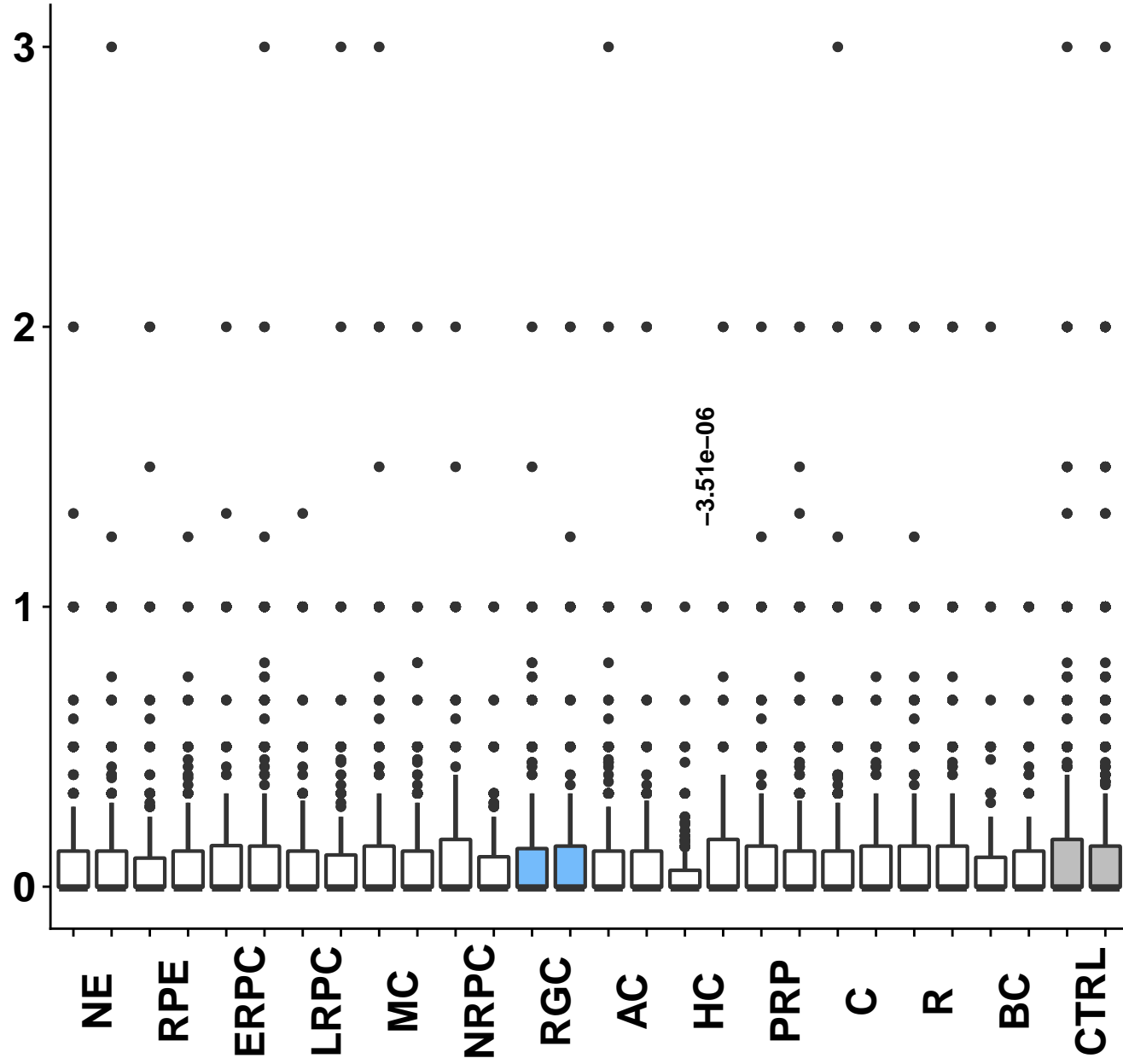
Irx6_1_mean



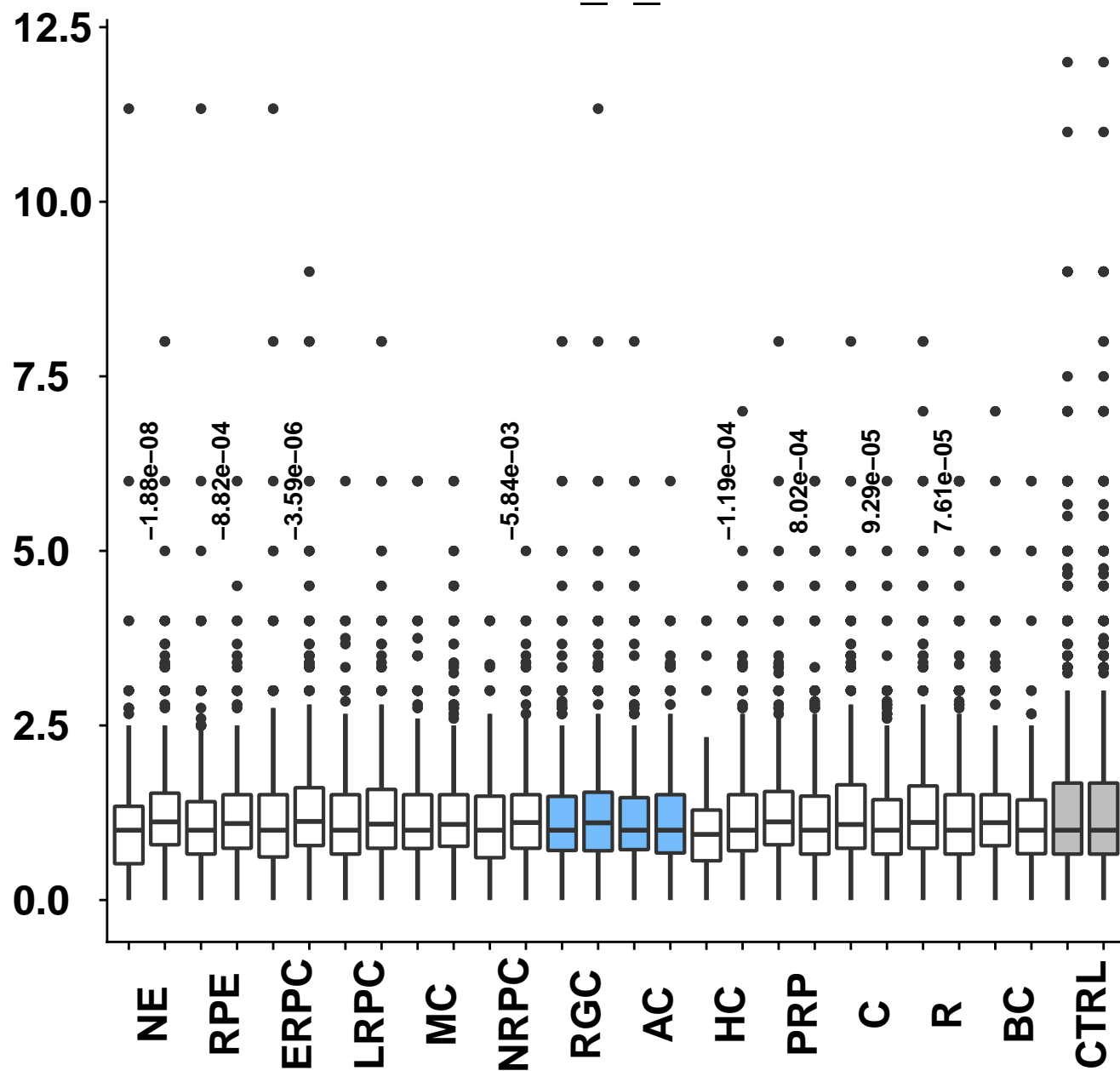
Klf7_1_mean



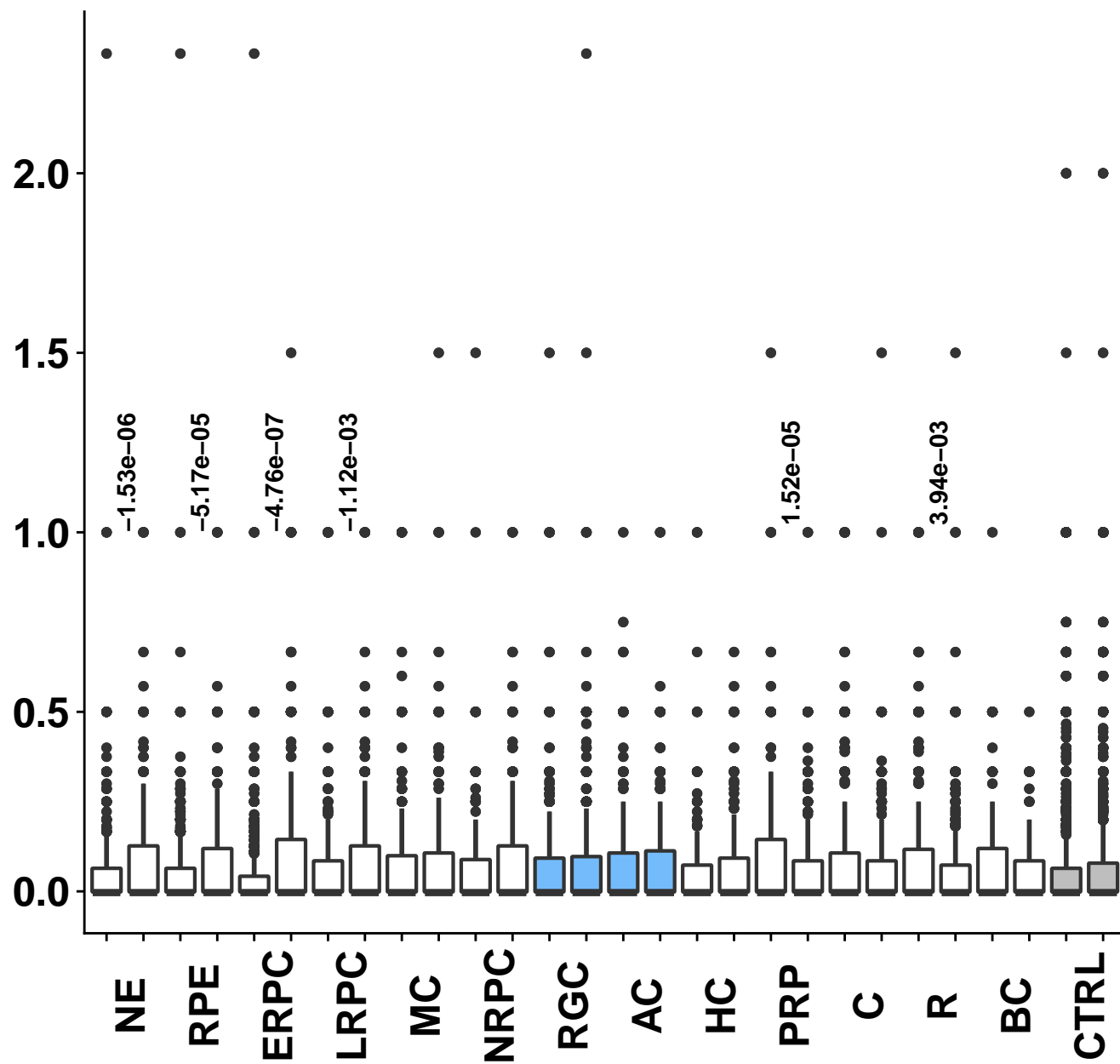
Klf7_2_mean



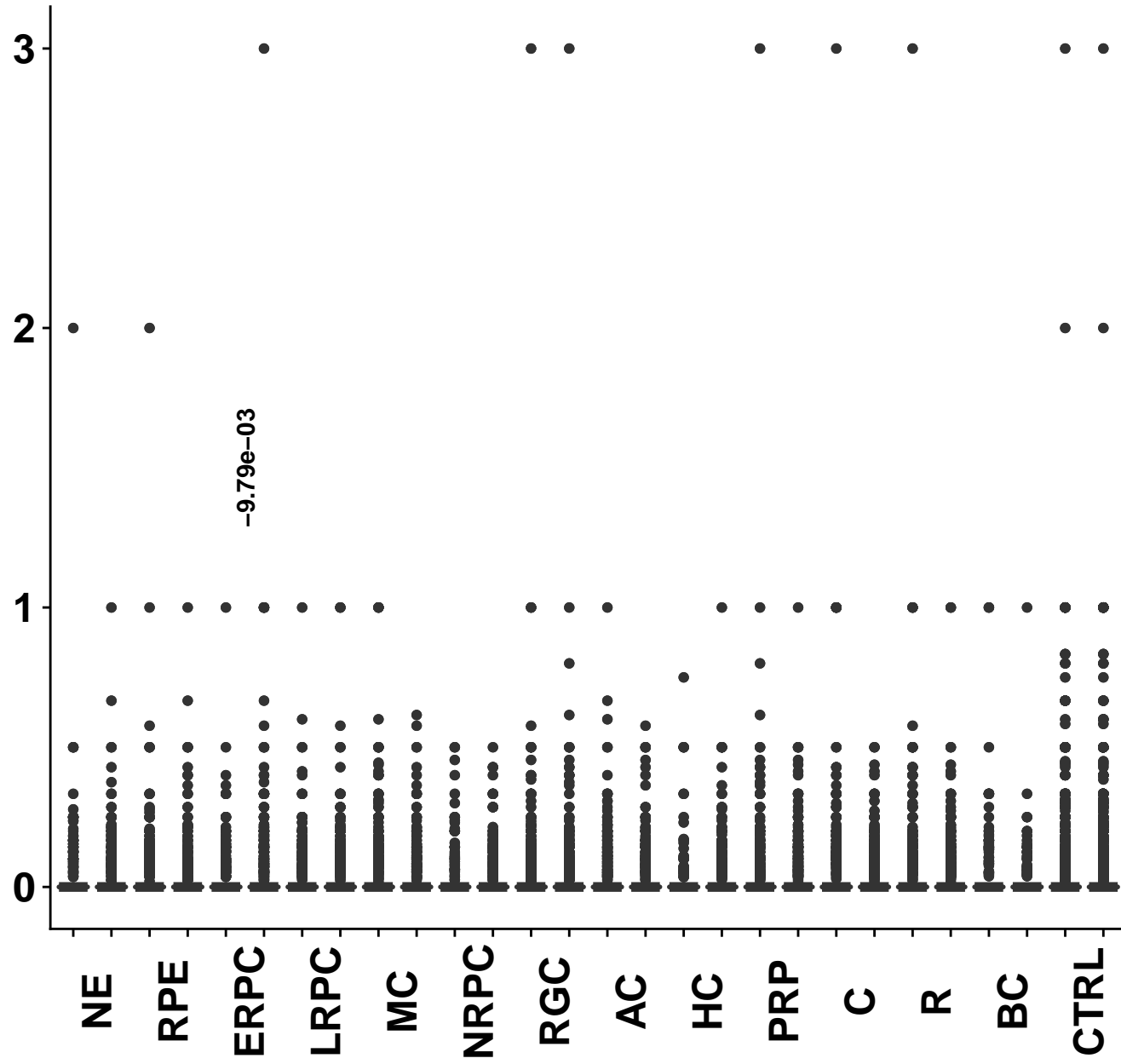
Meis3_1_mean



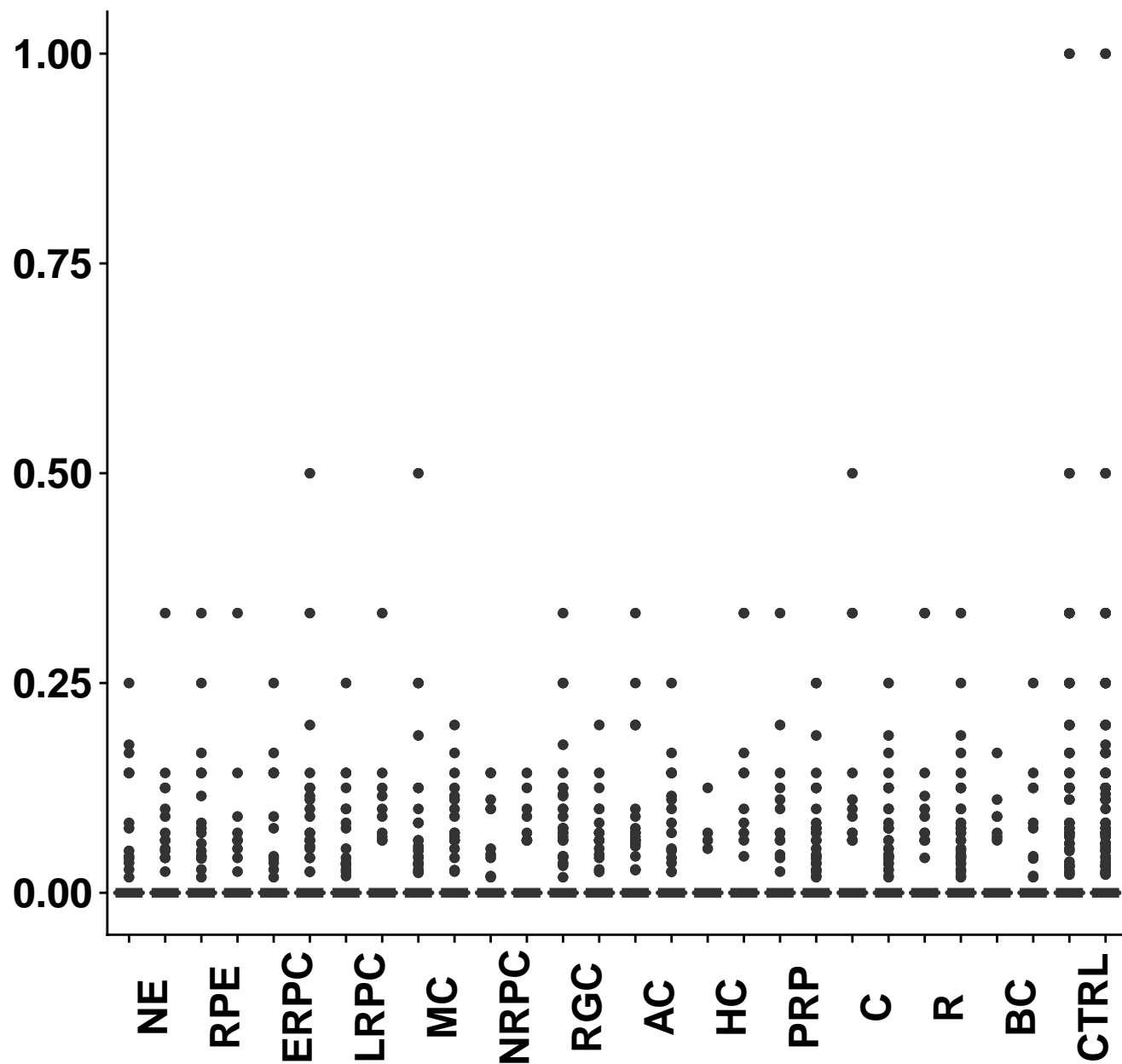
Meis3_2_mean



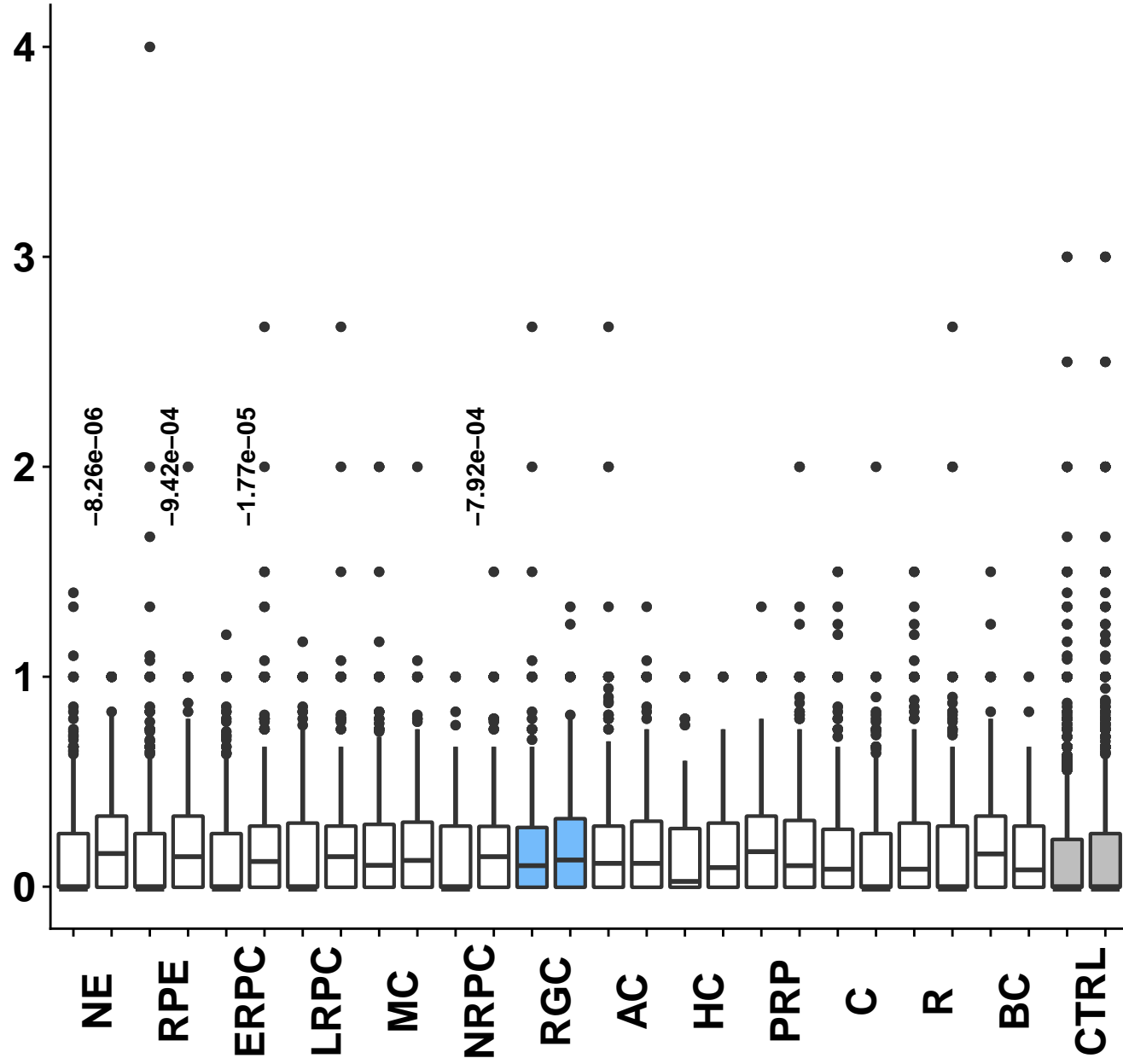
Pou4f1_1_mean



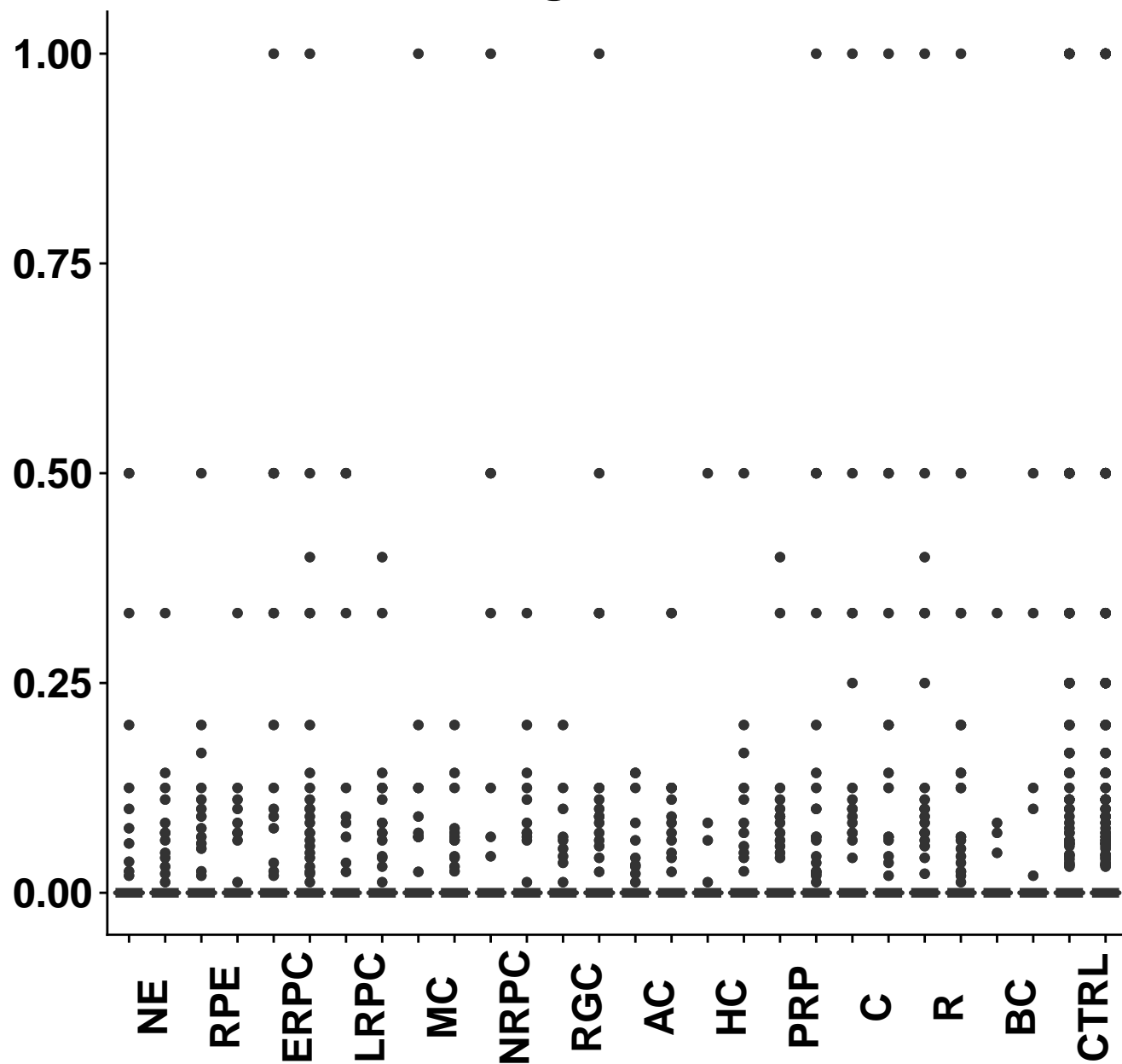
Pou4f2_1_mean



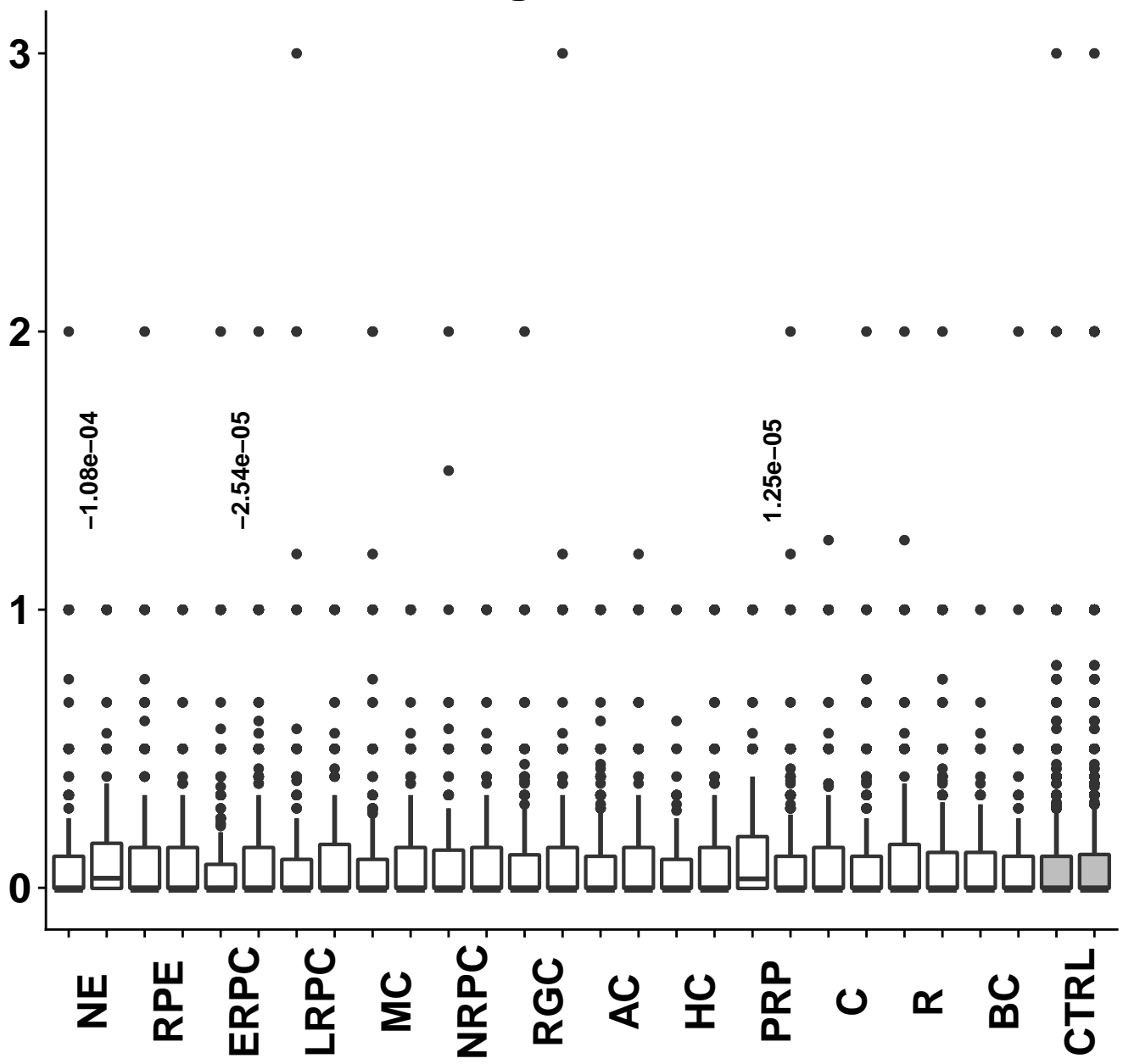
Pou6f2_1_mean



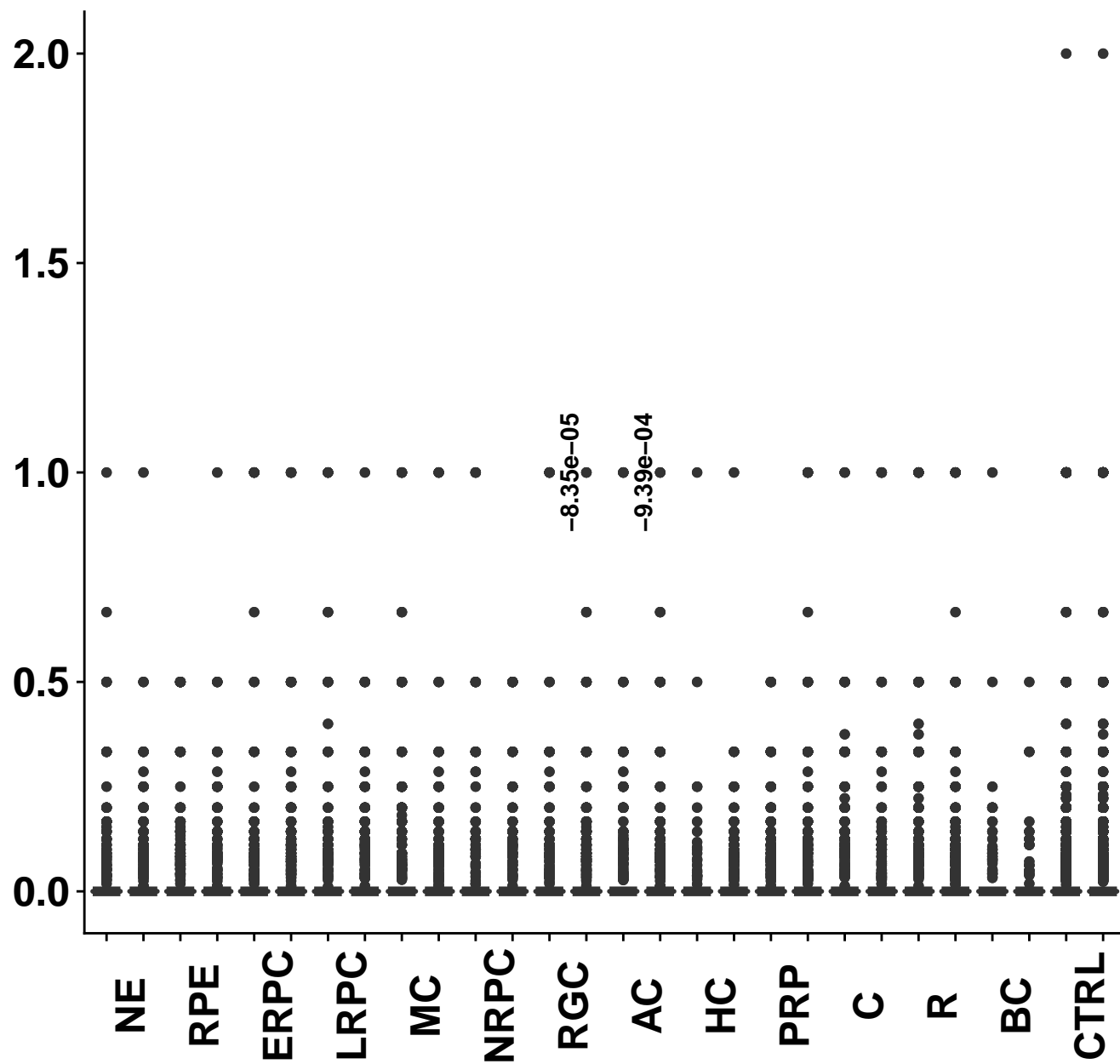
Rxrg_1_mean



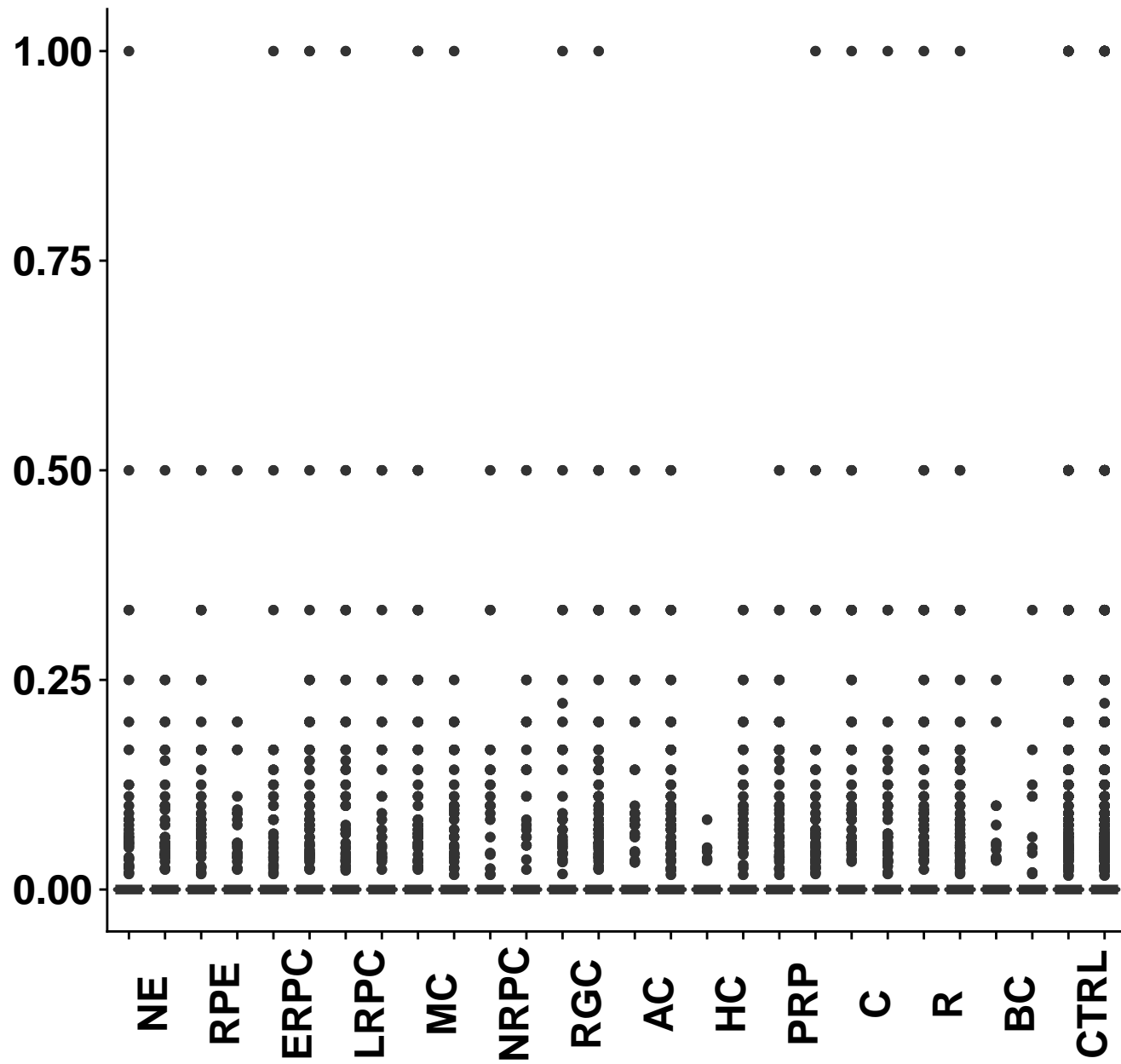
Rxrg_2_mean



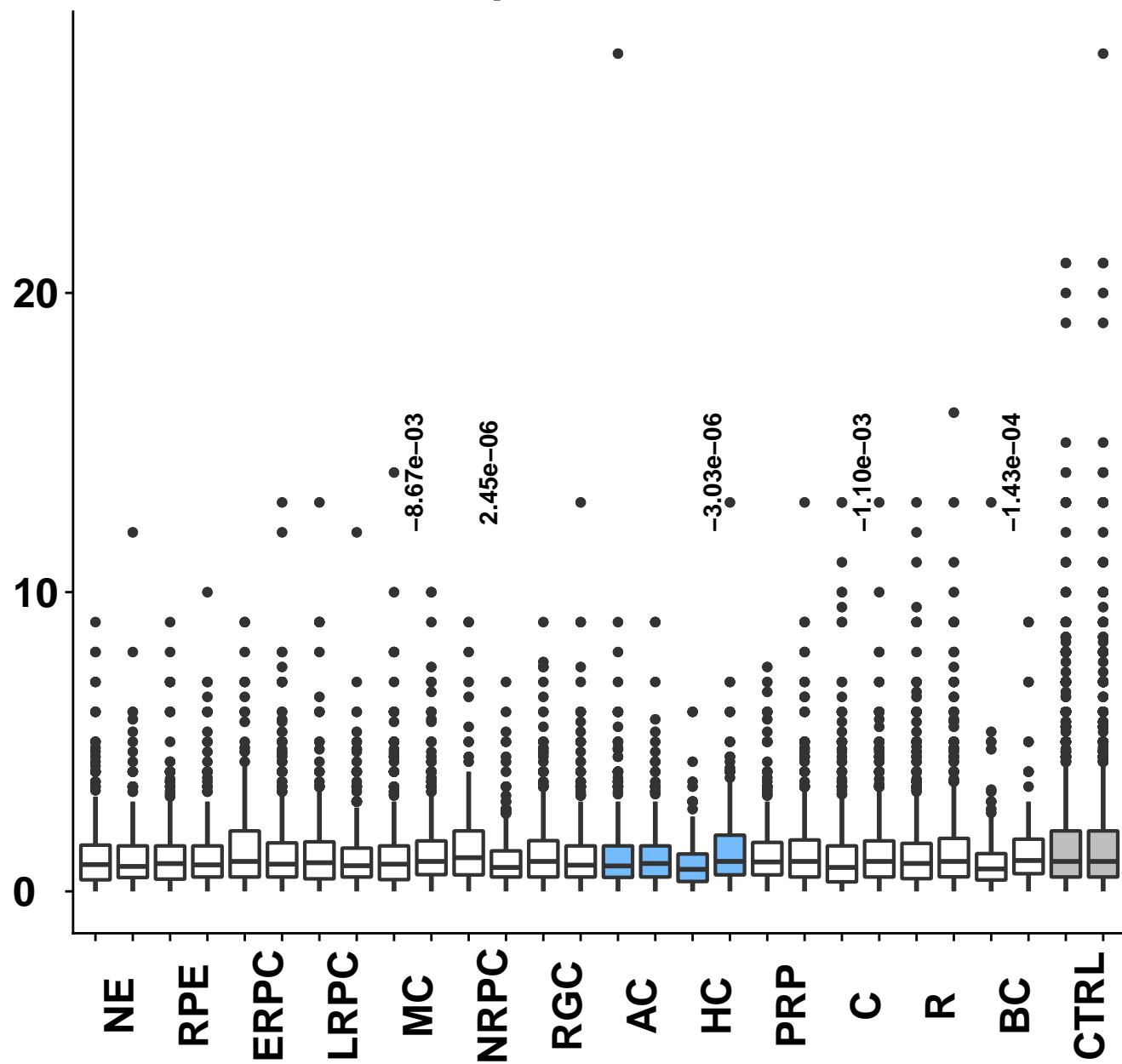
Scrt1_1_mean



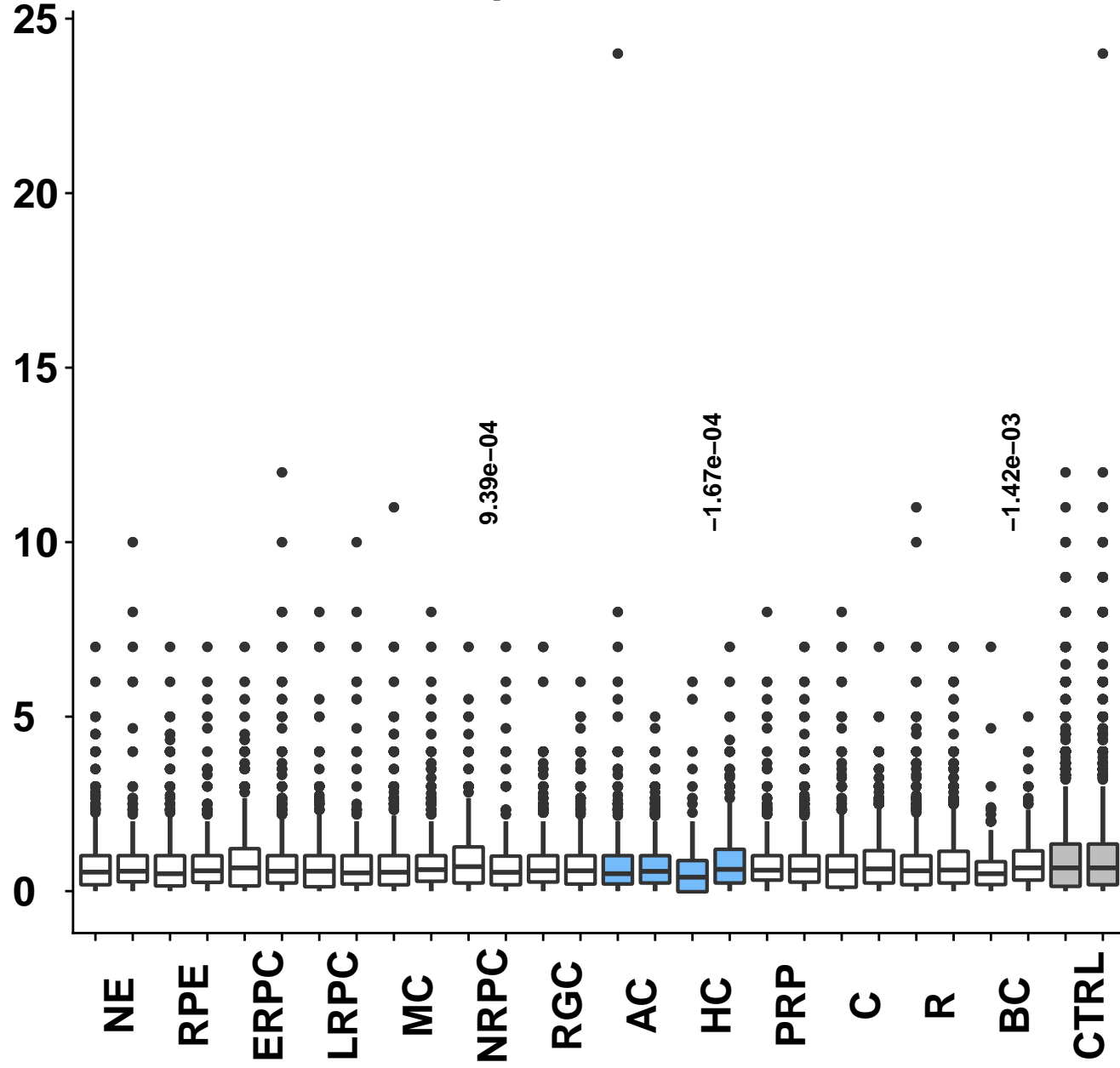
Scrt1_2_mean



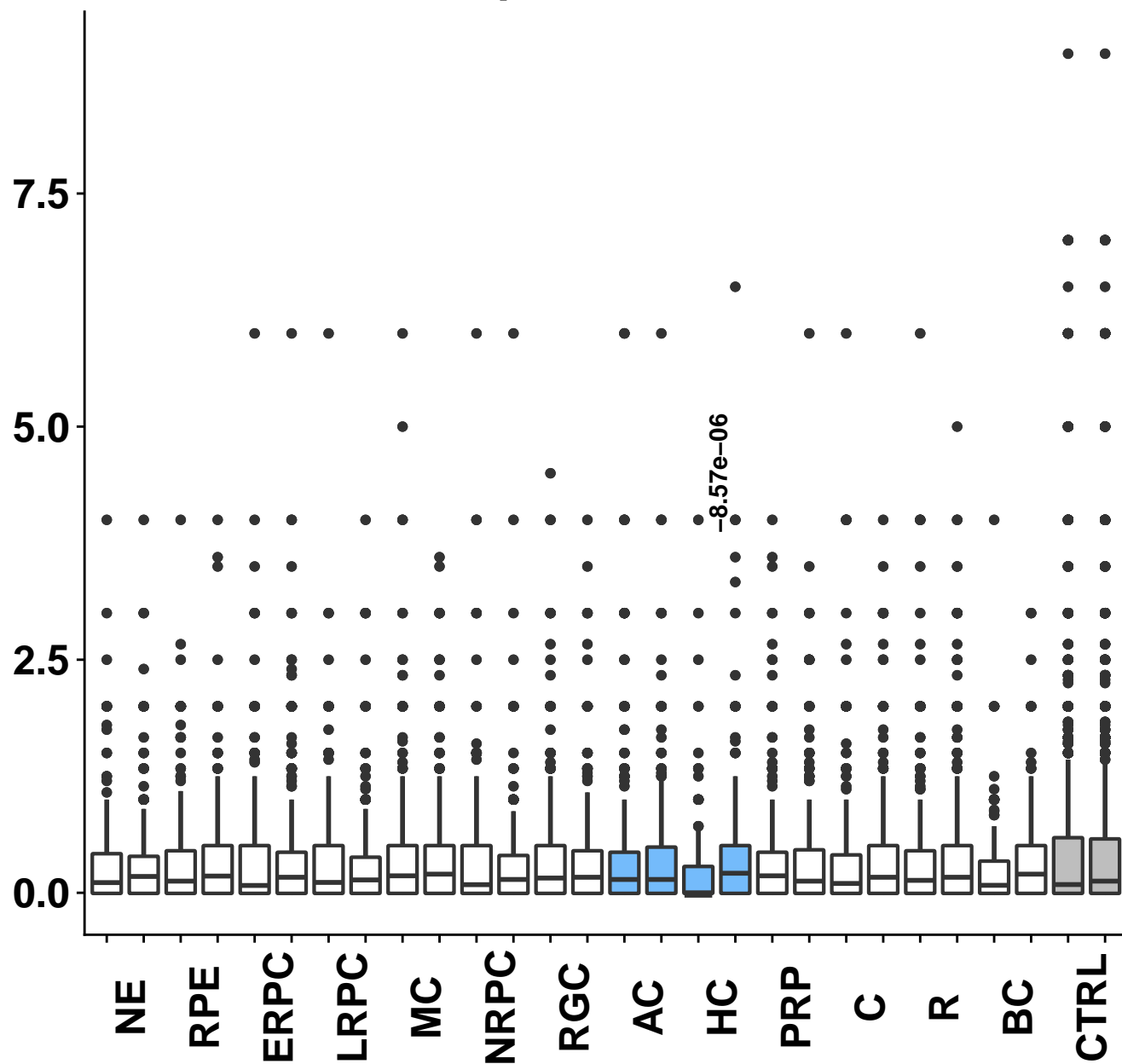
Tfap2b_1_mean



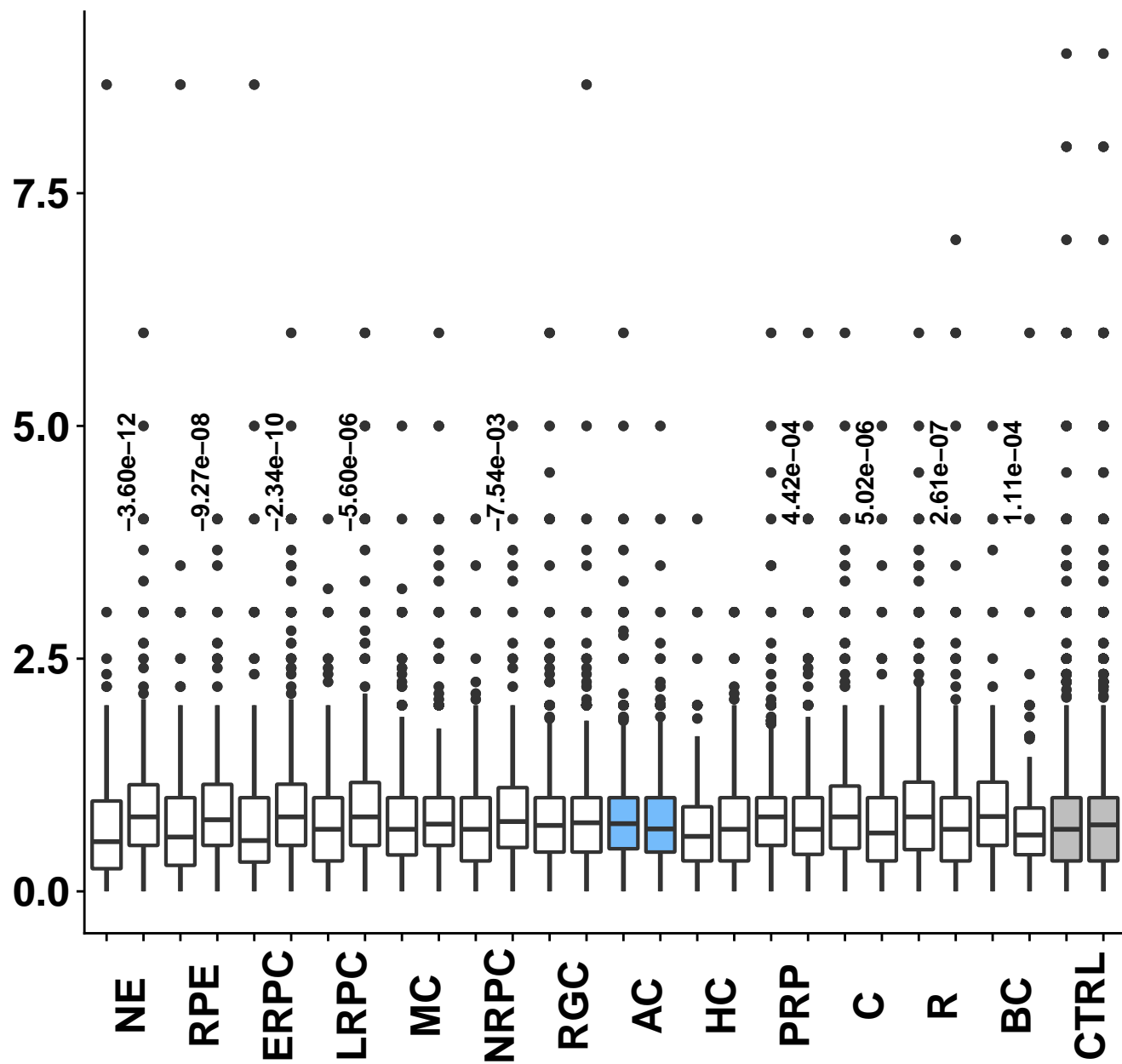
Tfap2b_2_mean



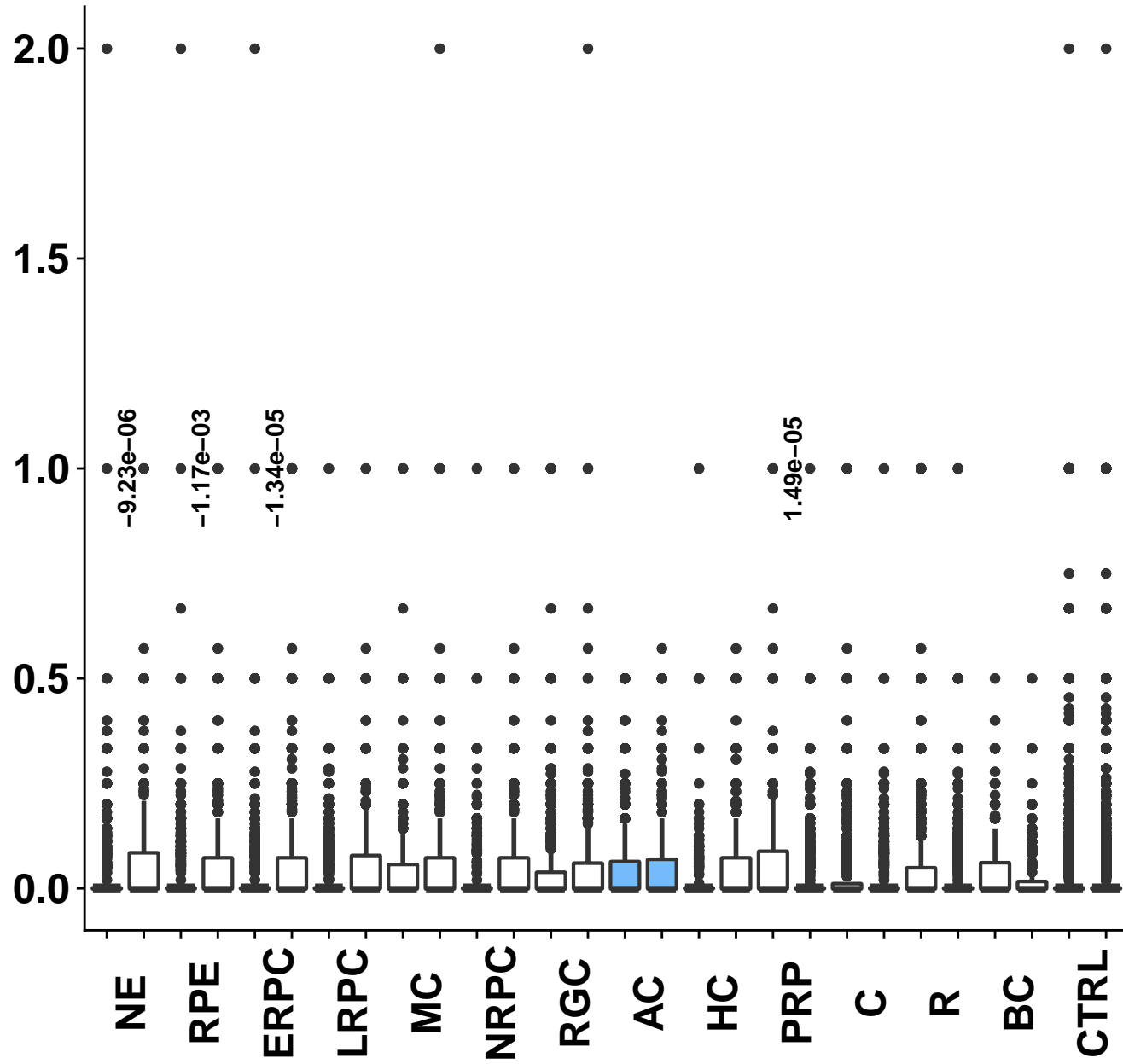
Tfap2b_3_mean



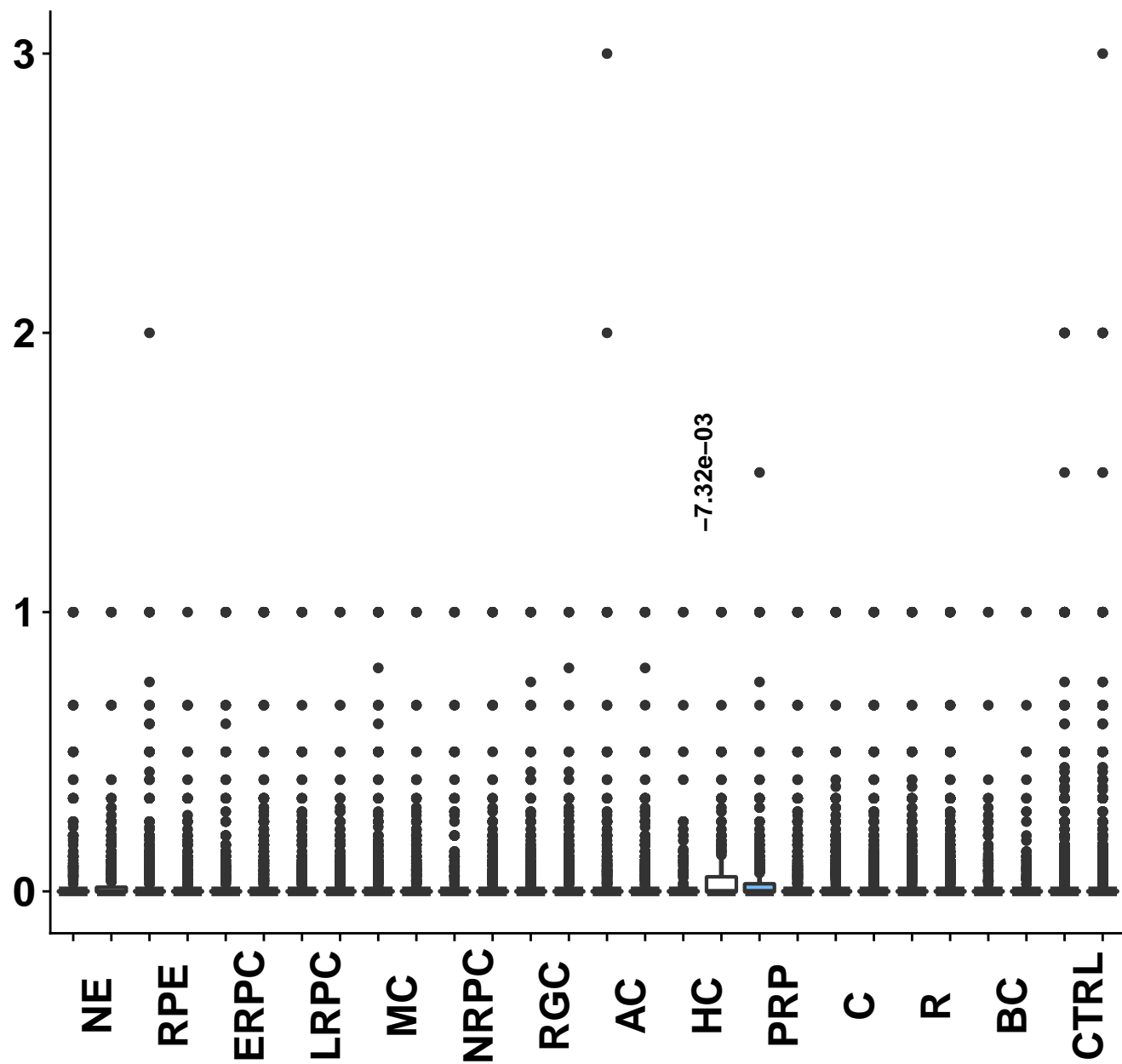
Meis2_1_mean



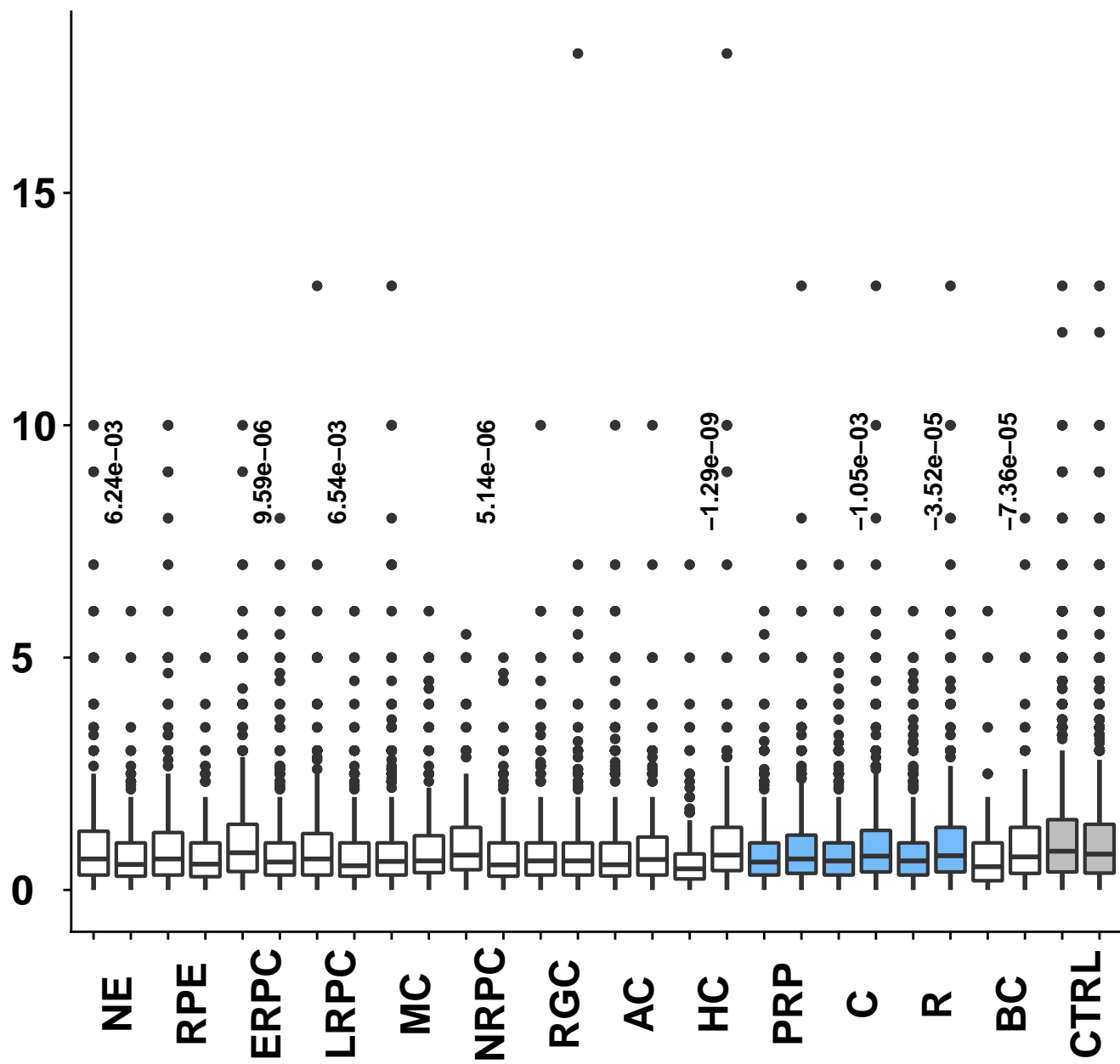
Meis2_2_mean



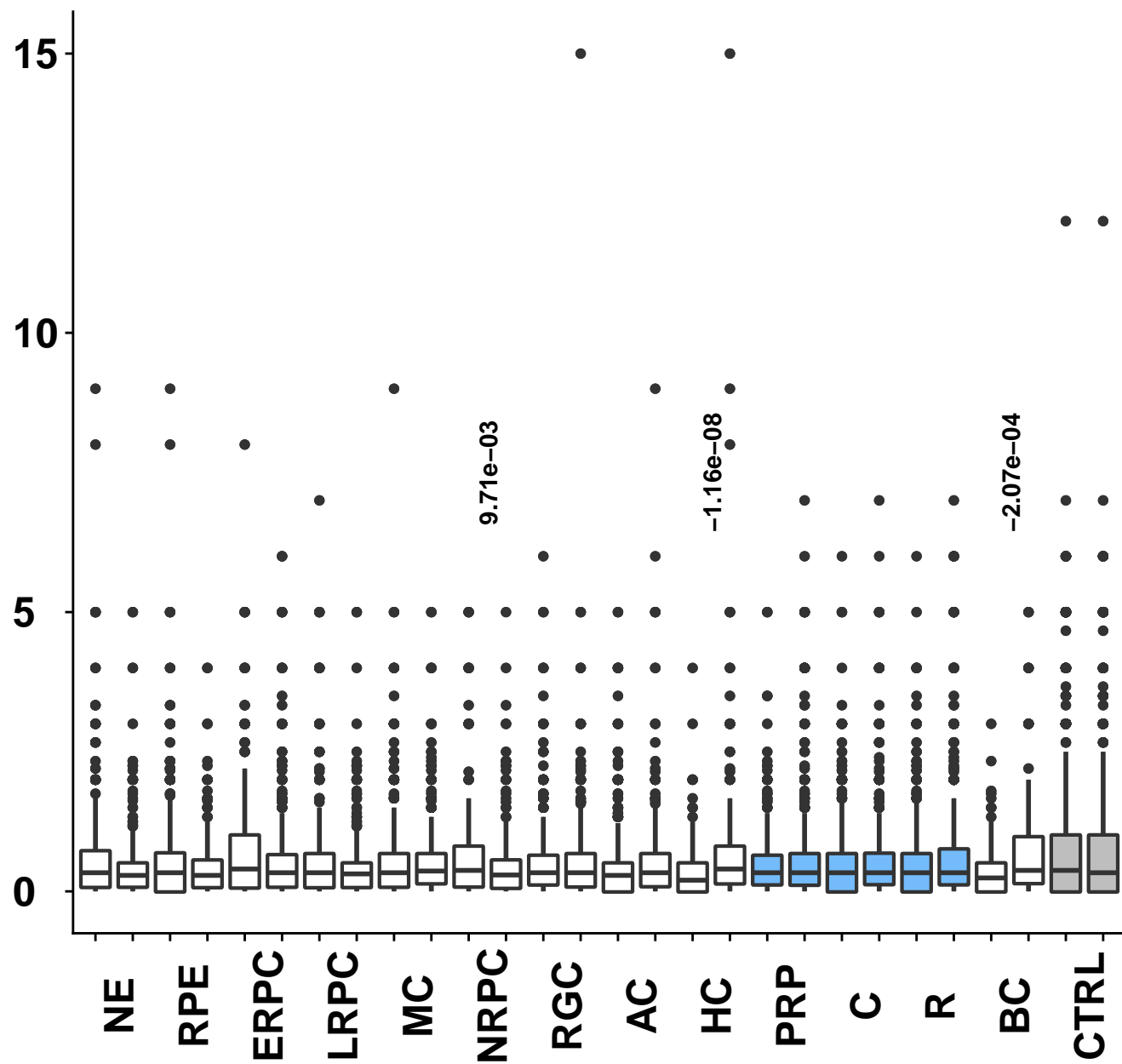
Hif1a_1_mean



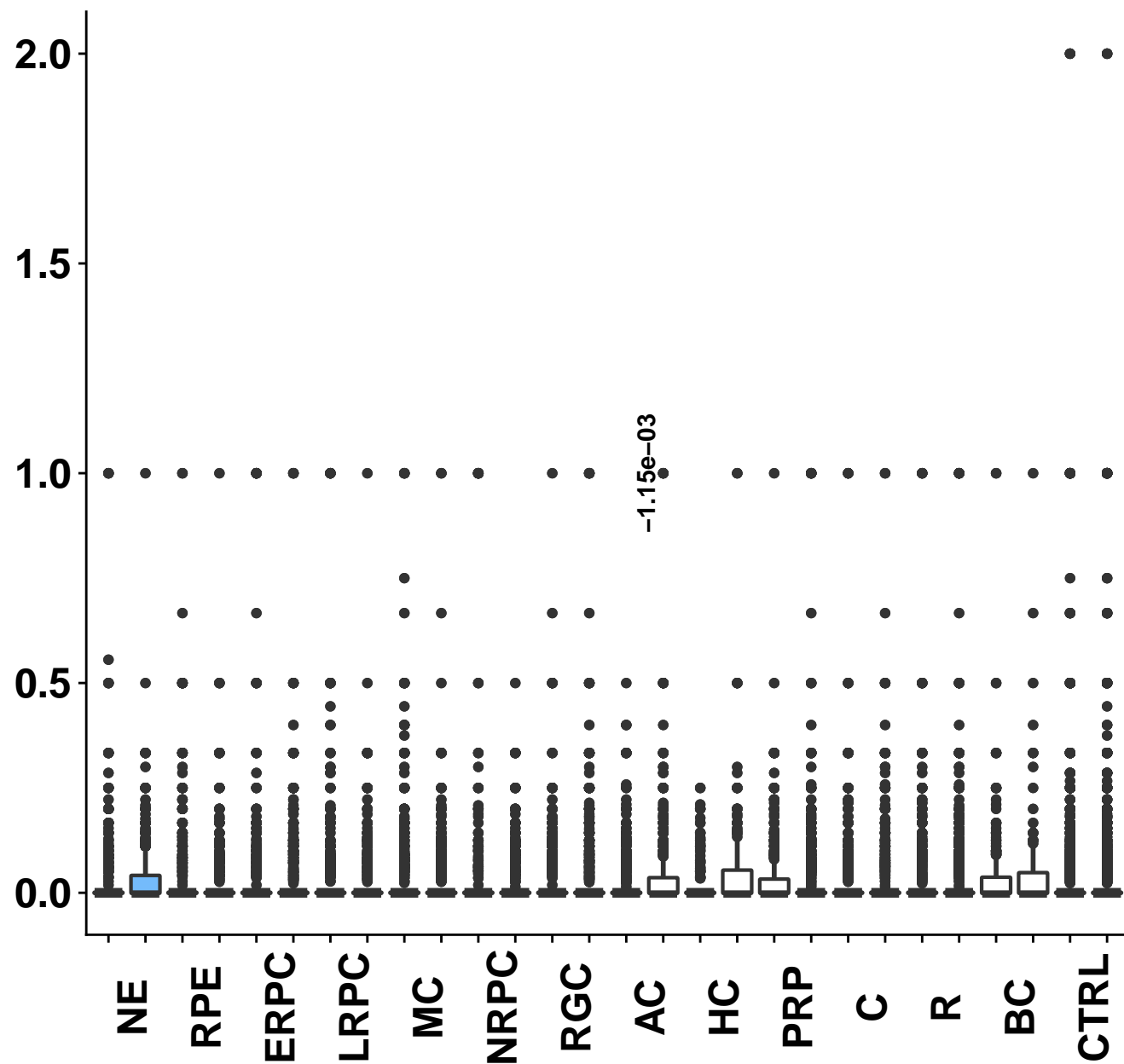
Hif1a_2_mean



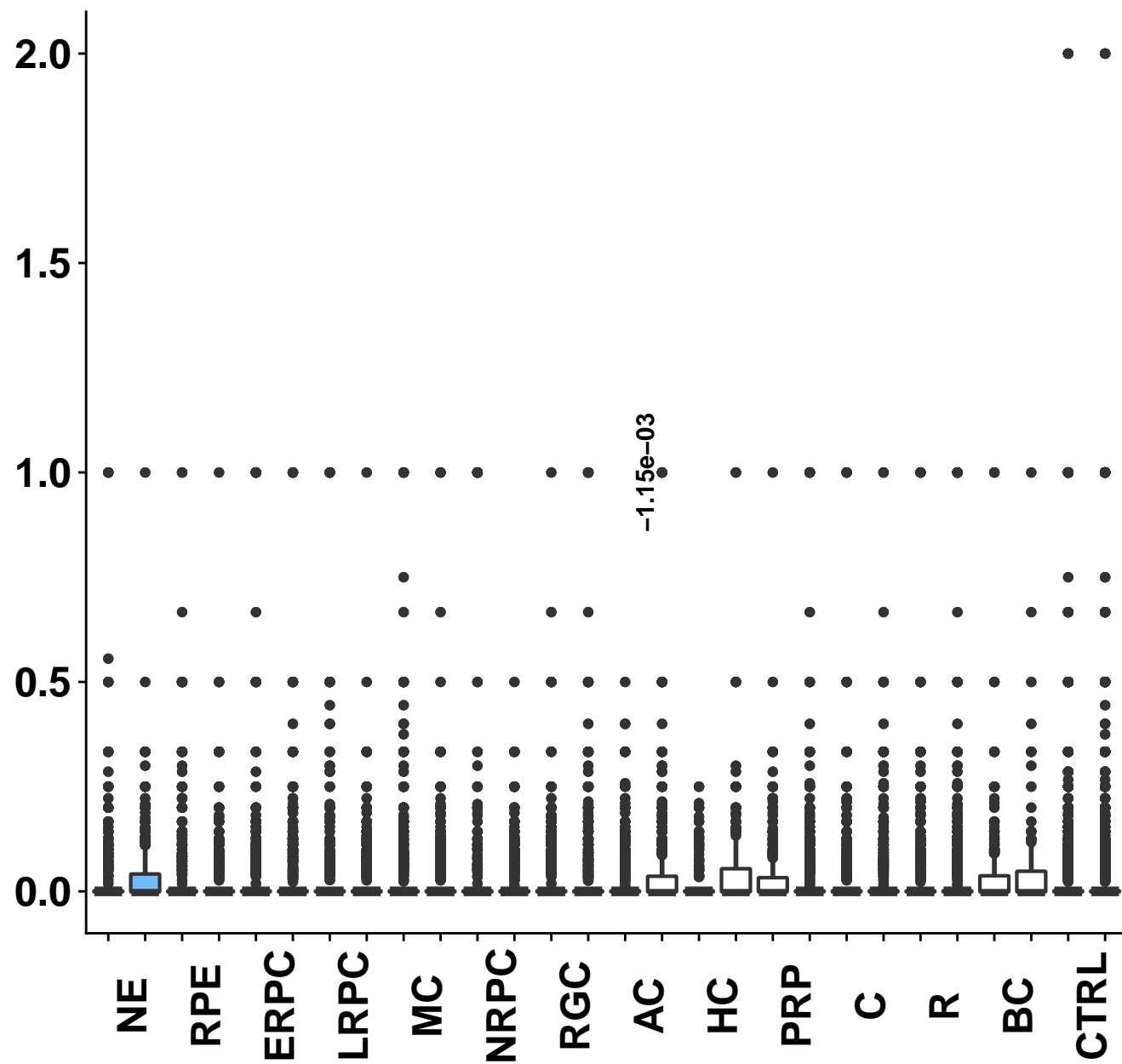
Hif1a_3_mean



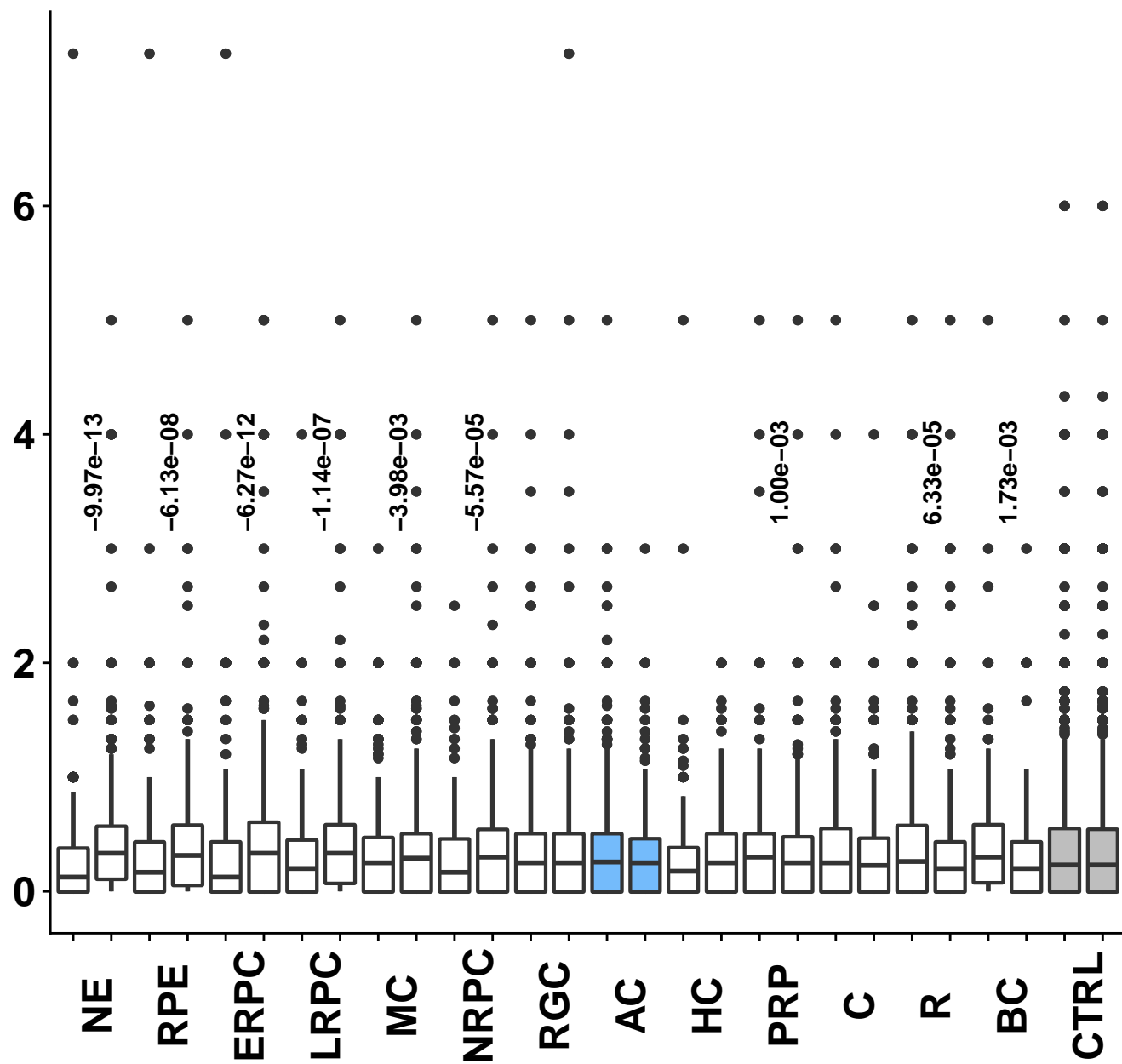
Hmx1_1_mean



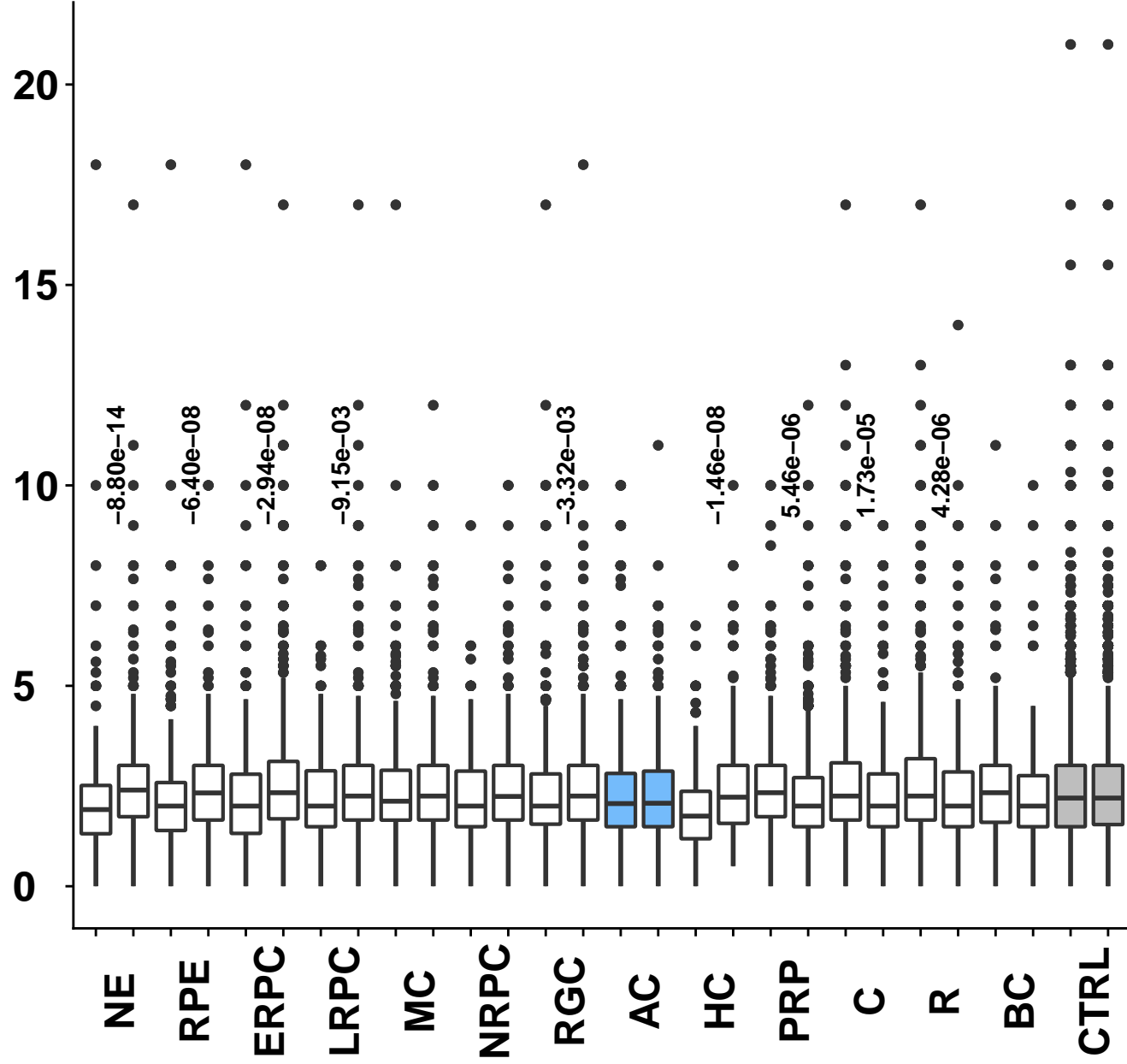
Hmx1_2_mean



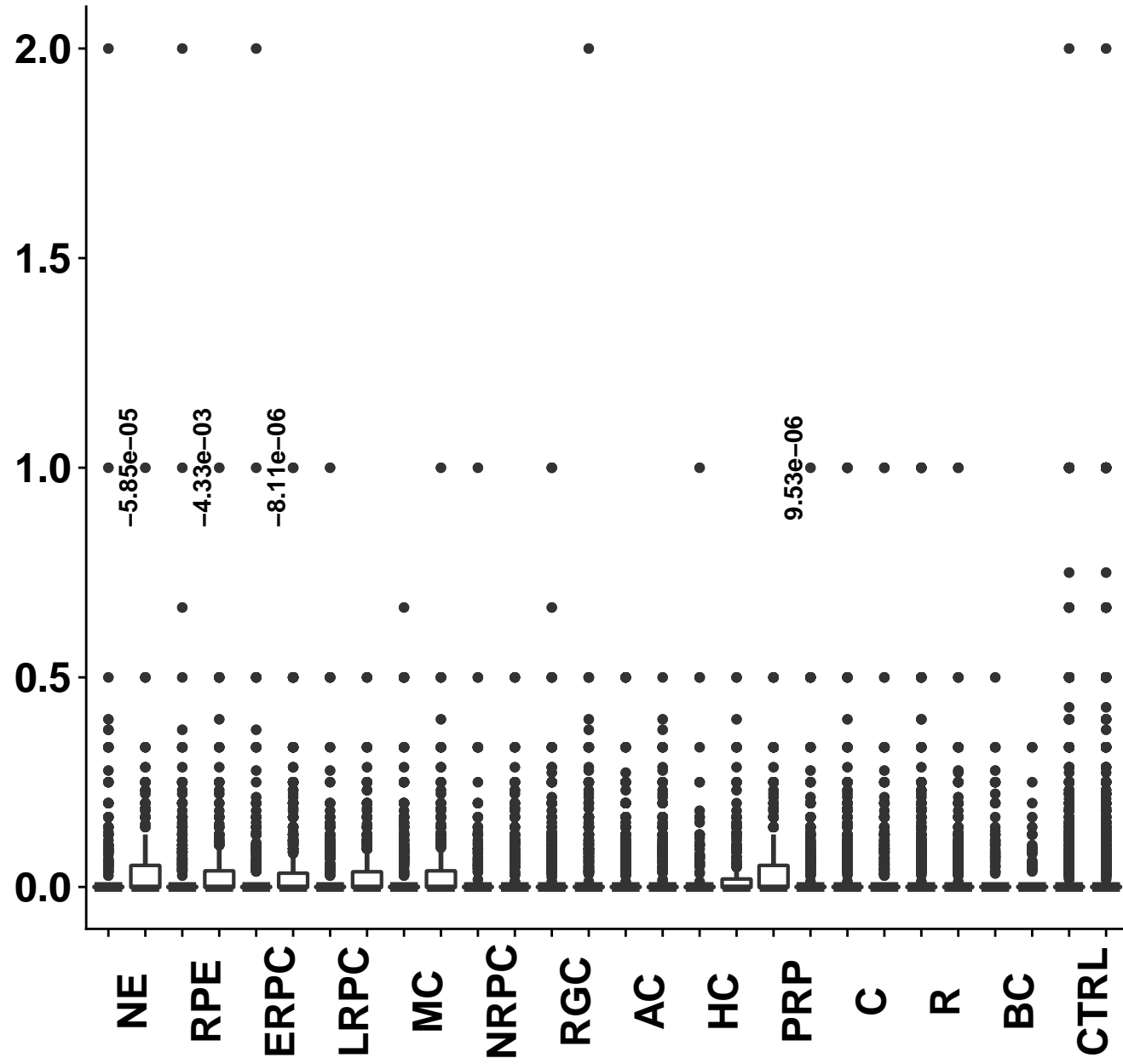
Meis1_1_mean



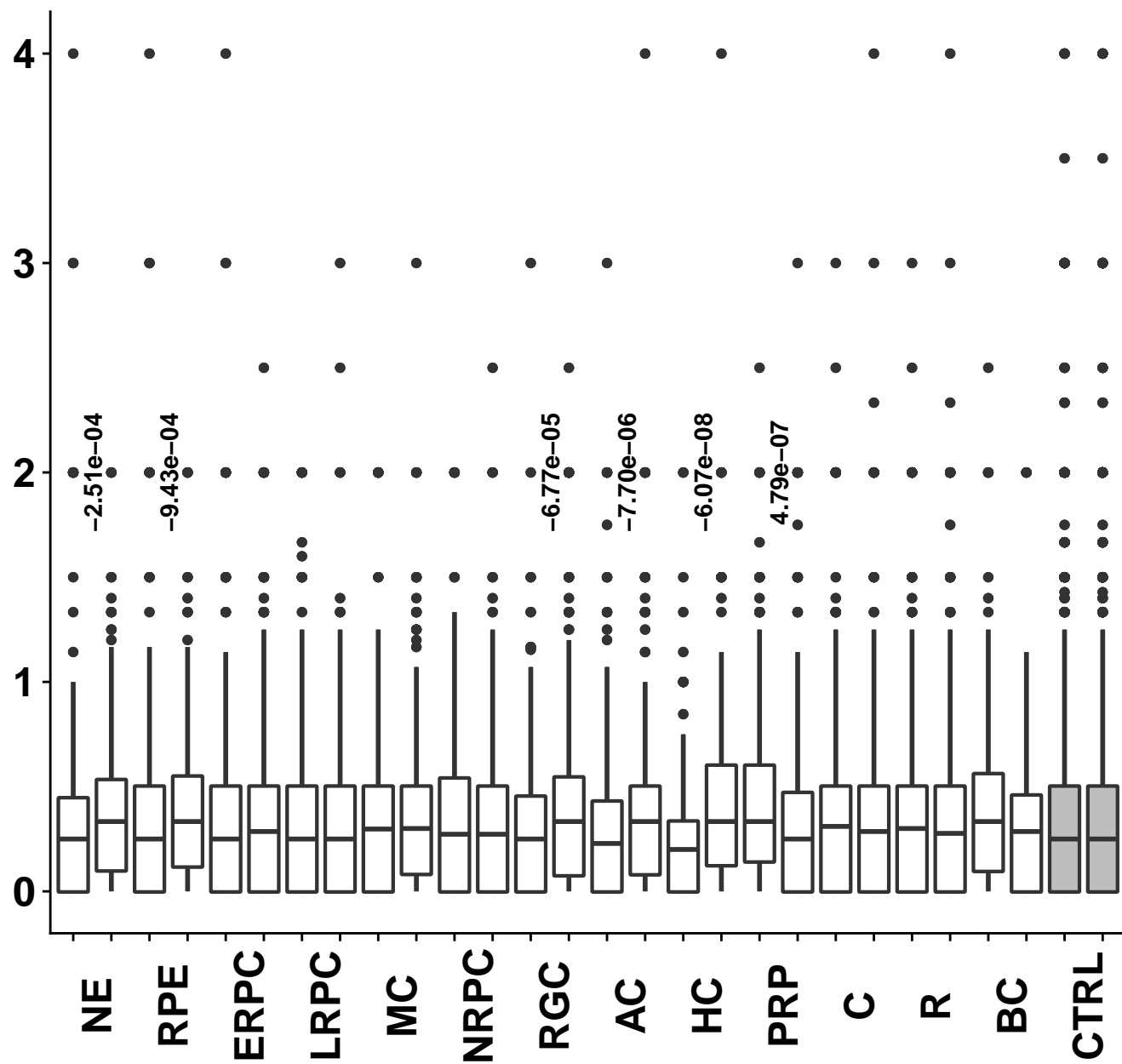
Meis1_2_mean



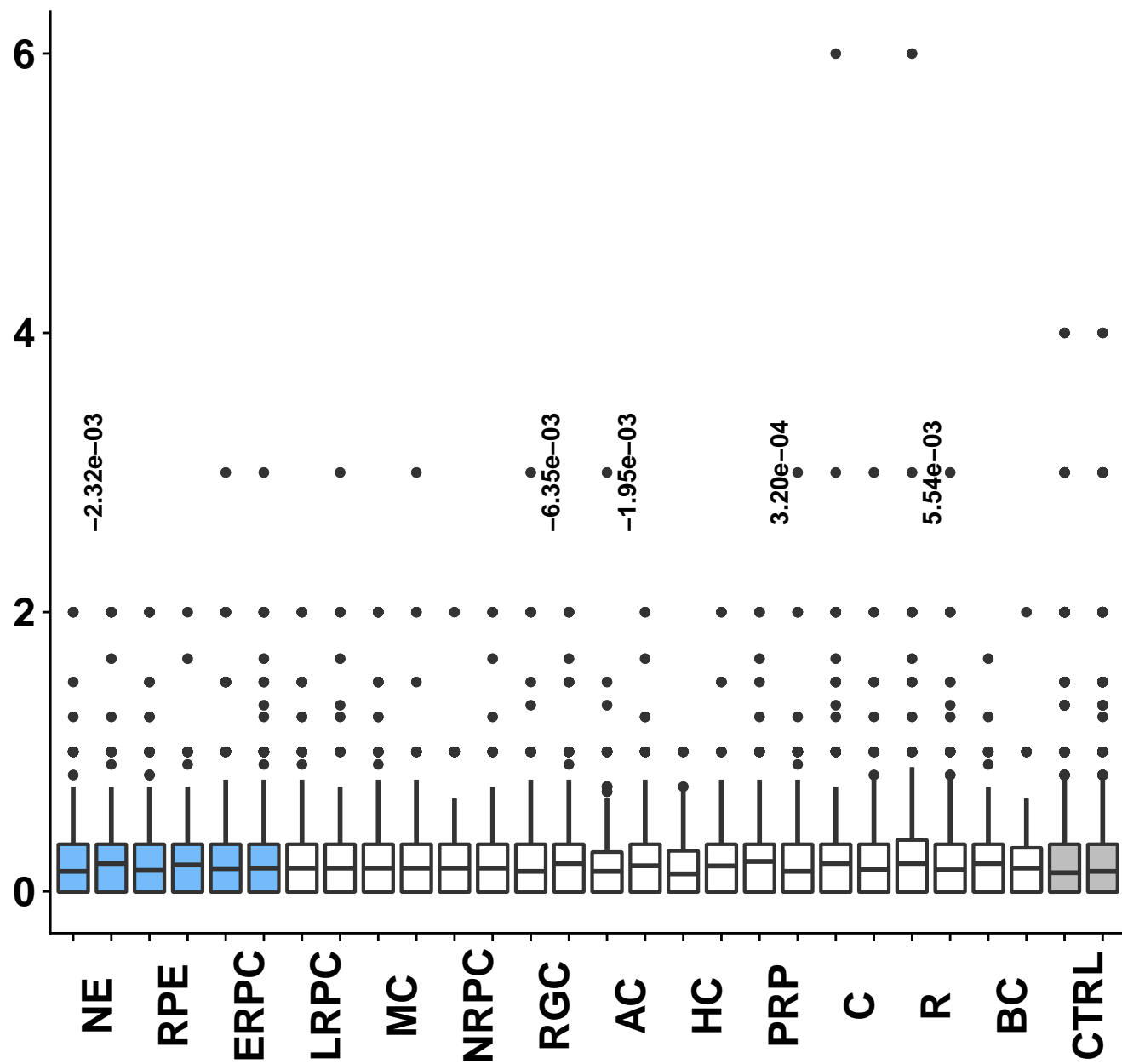
Meis1_3_mean



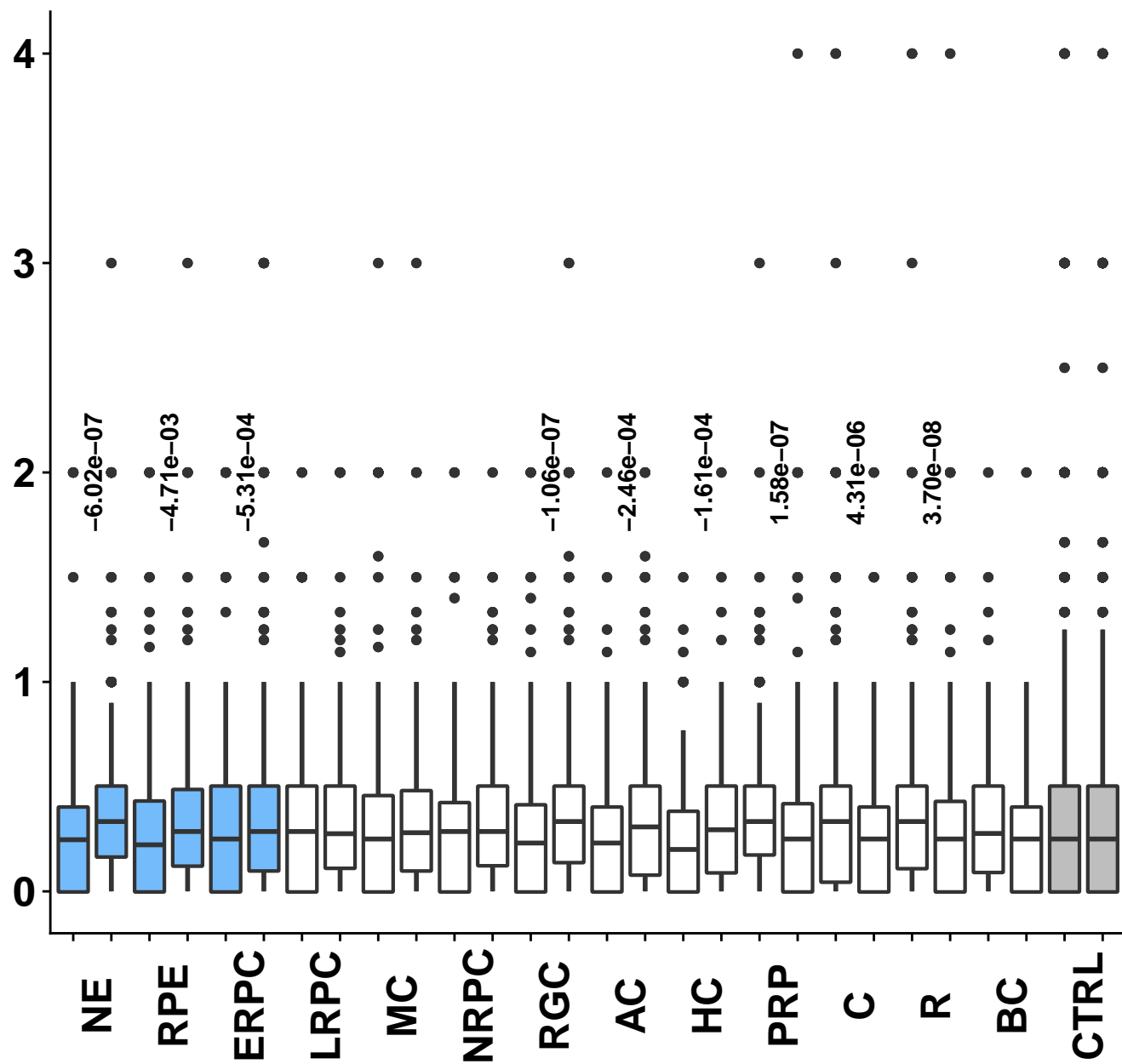
Neurod2_1_mean



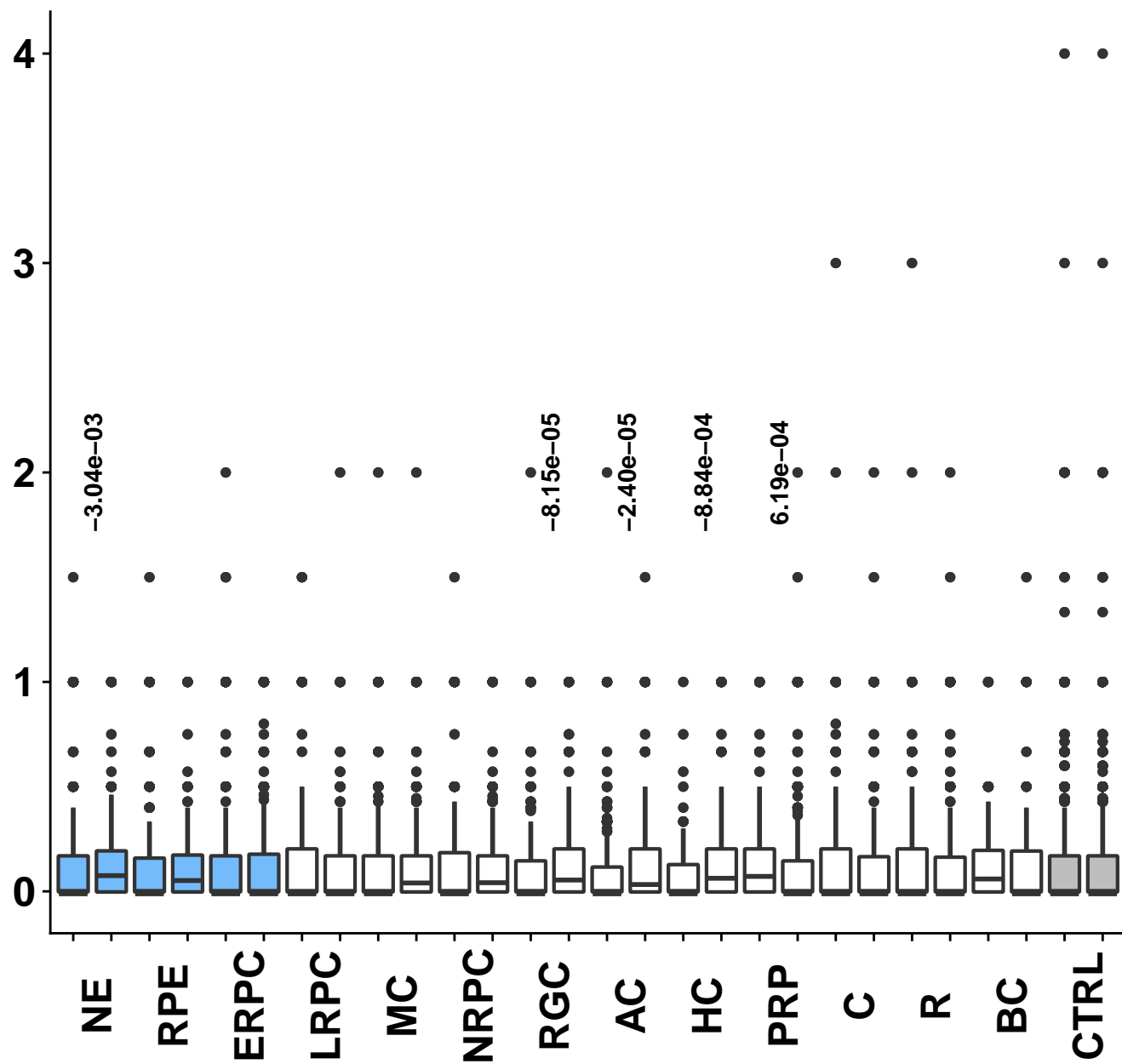
Nr2f2_1_mean



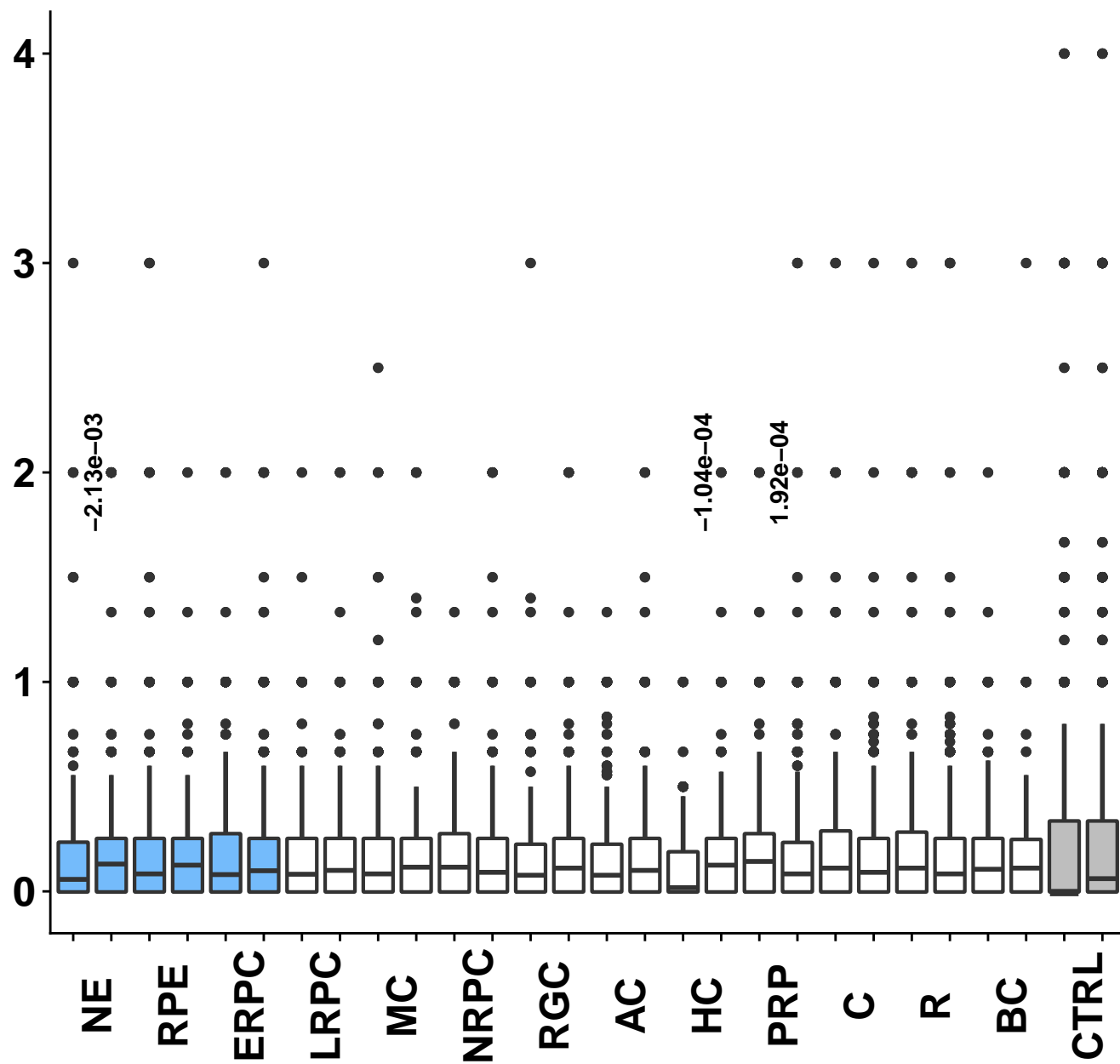
Nr2f2_2_mean



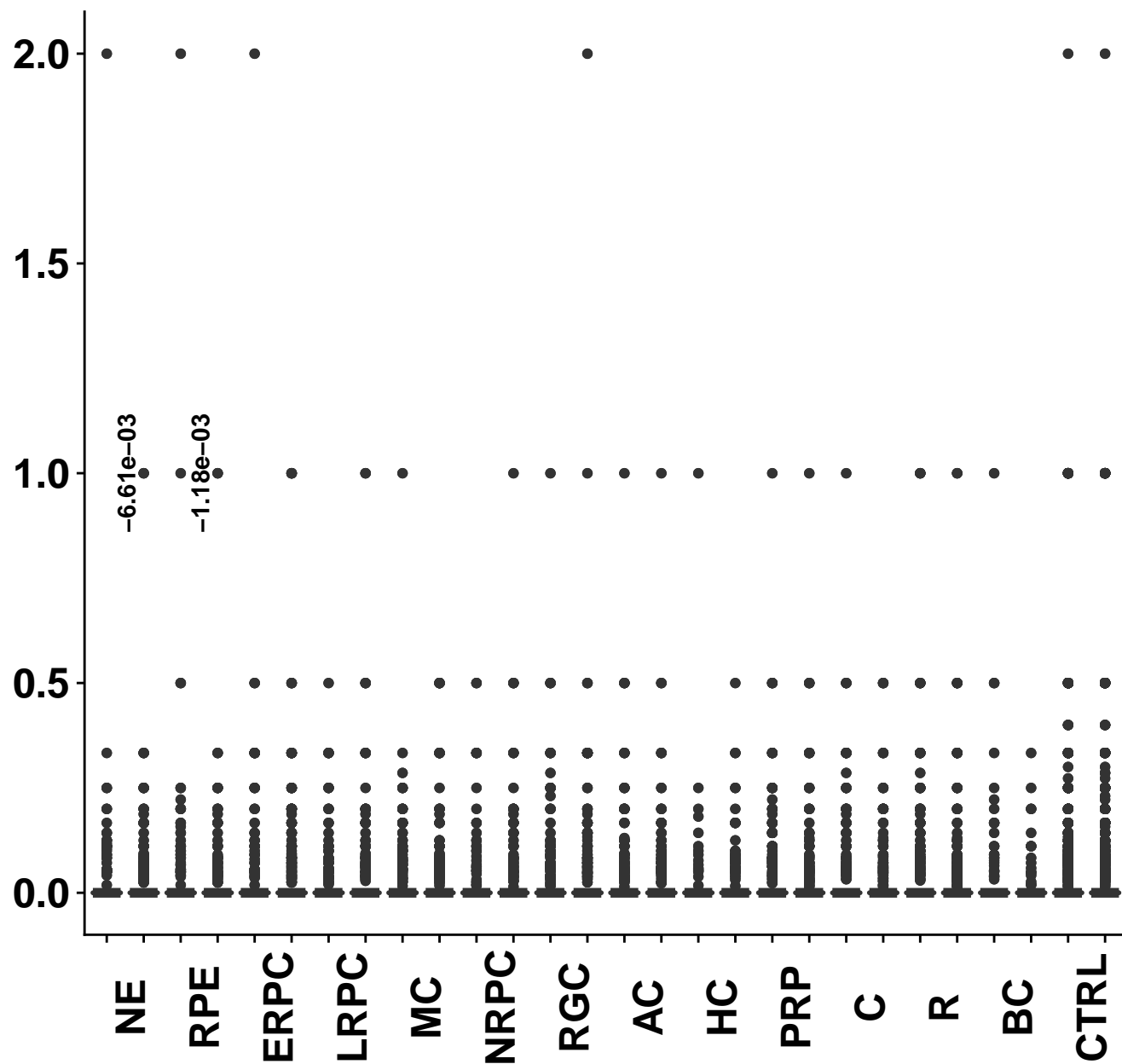
Nr2f2_3_mean



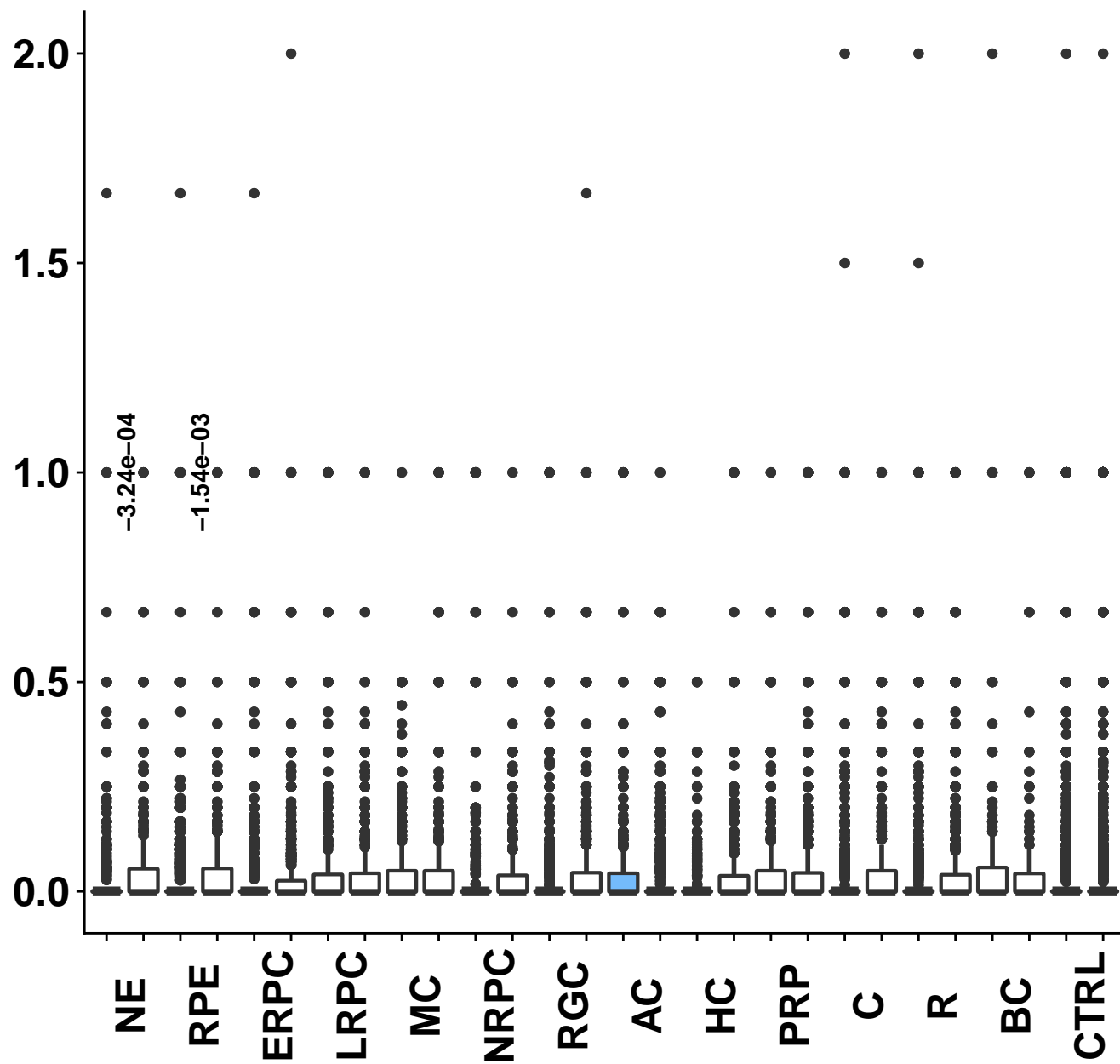
Nr2f2_4_mean



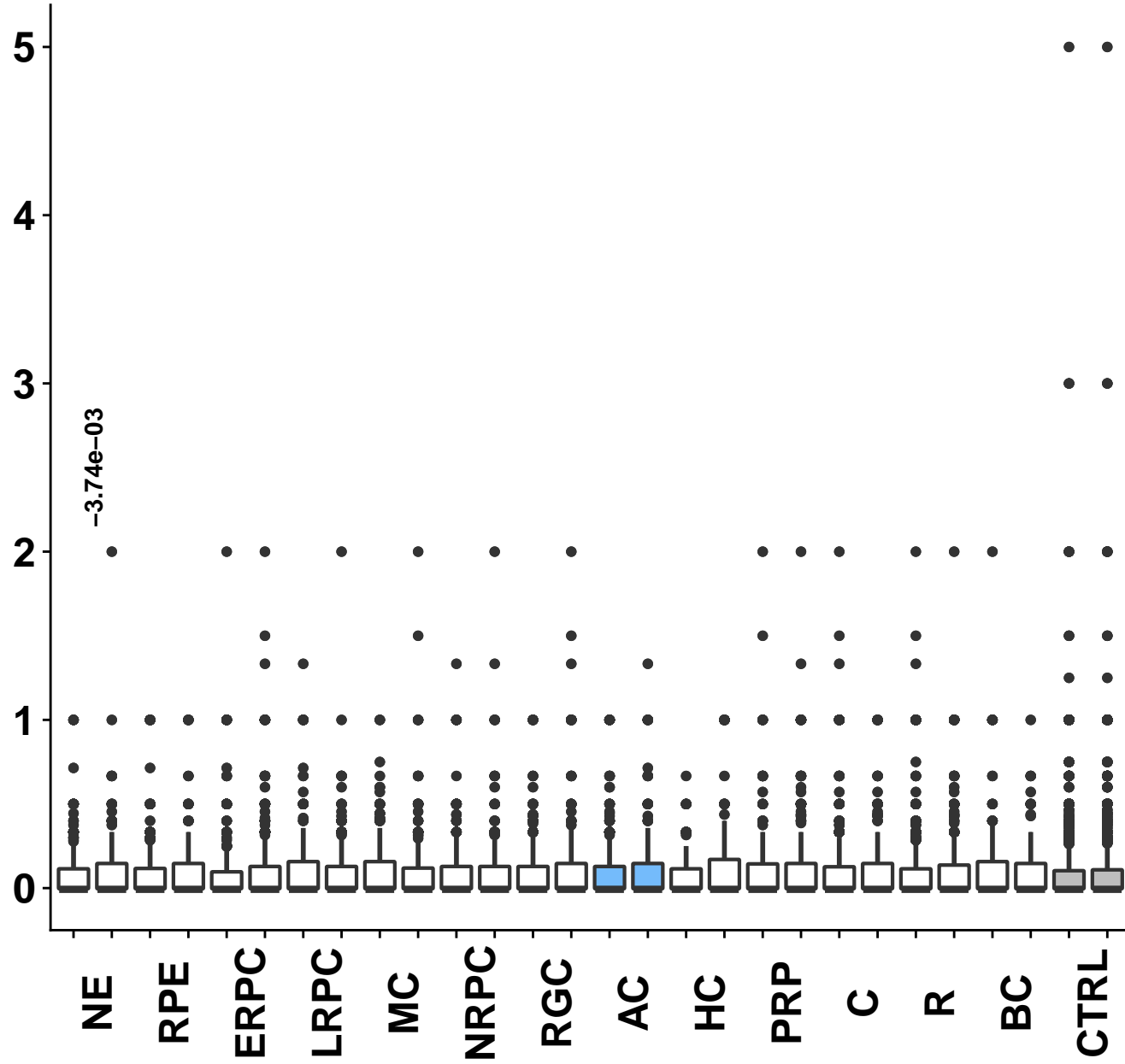
Pbx1_1_mean



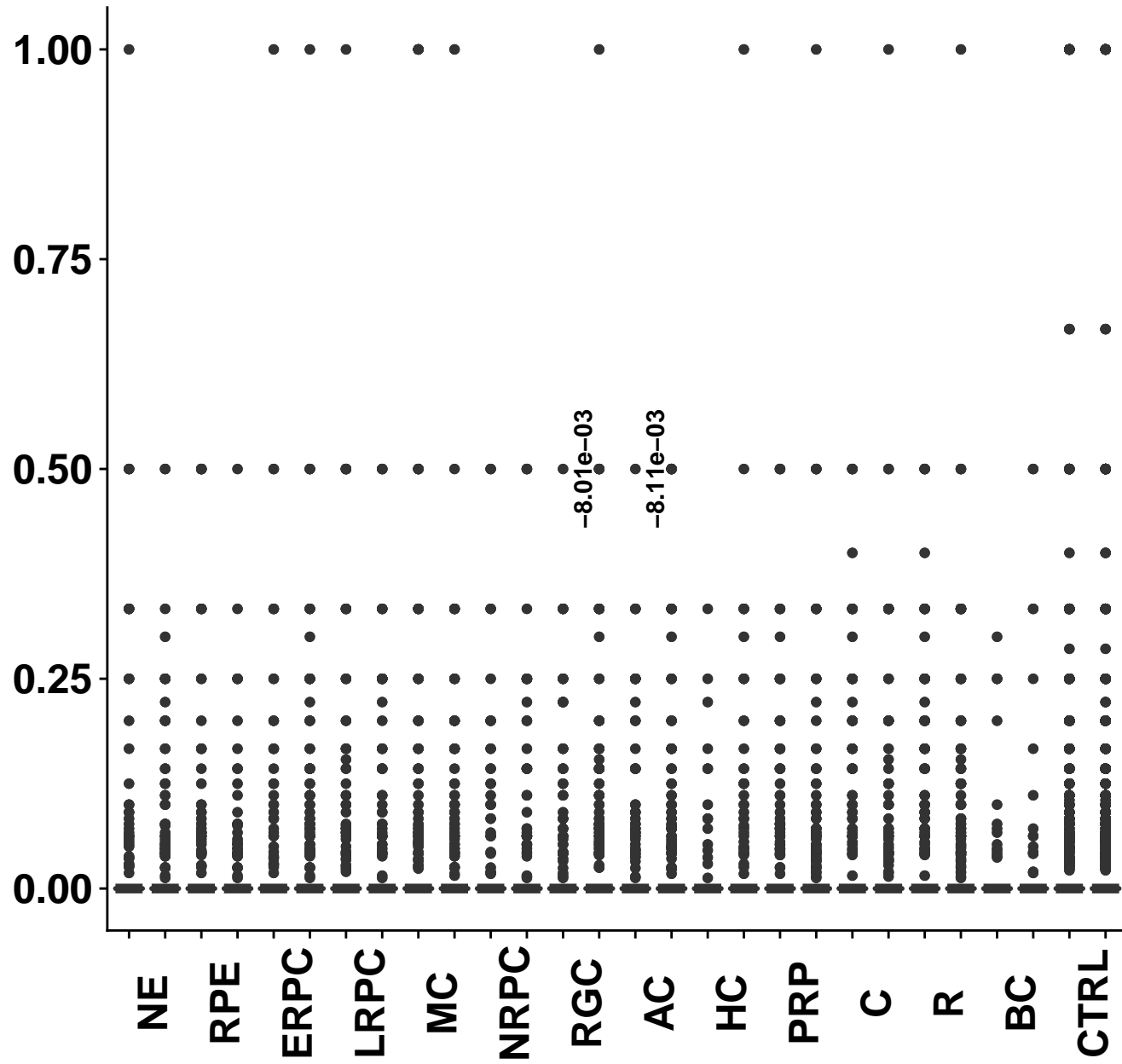
Pbx1_2_mean



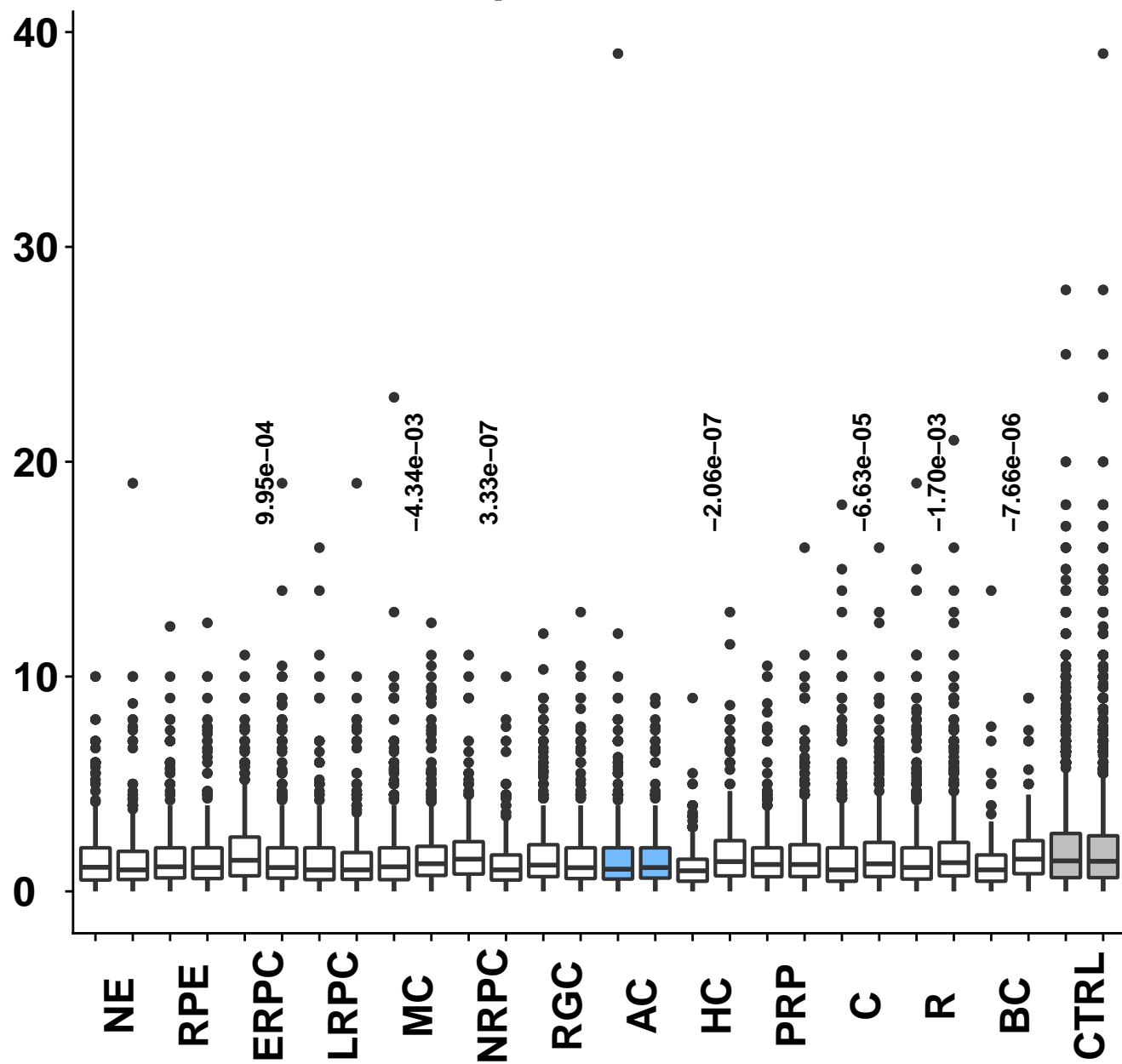
Pbx1_3_mean



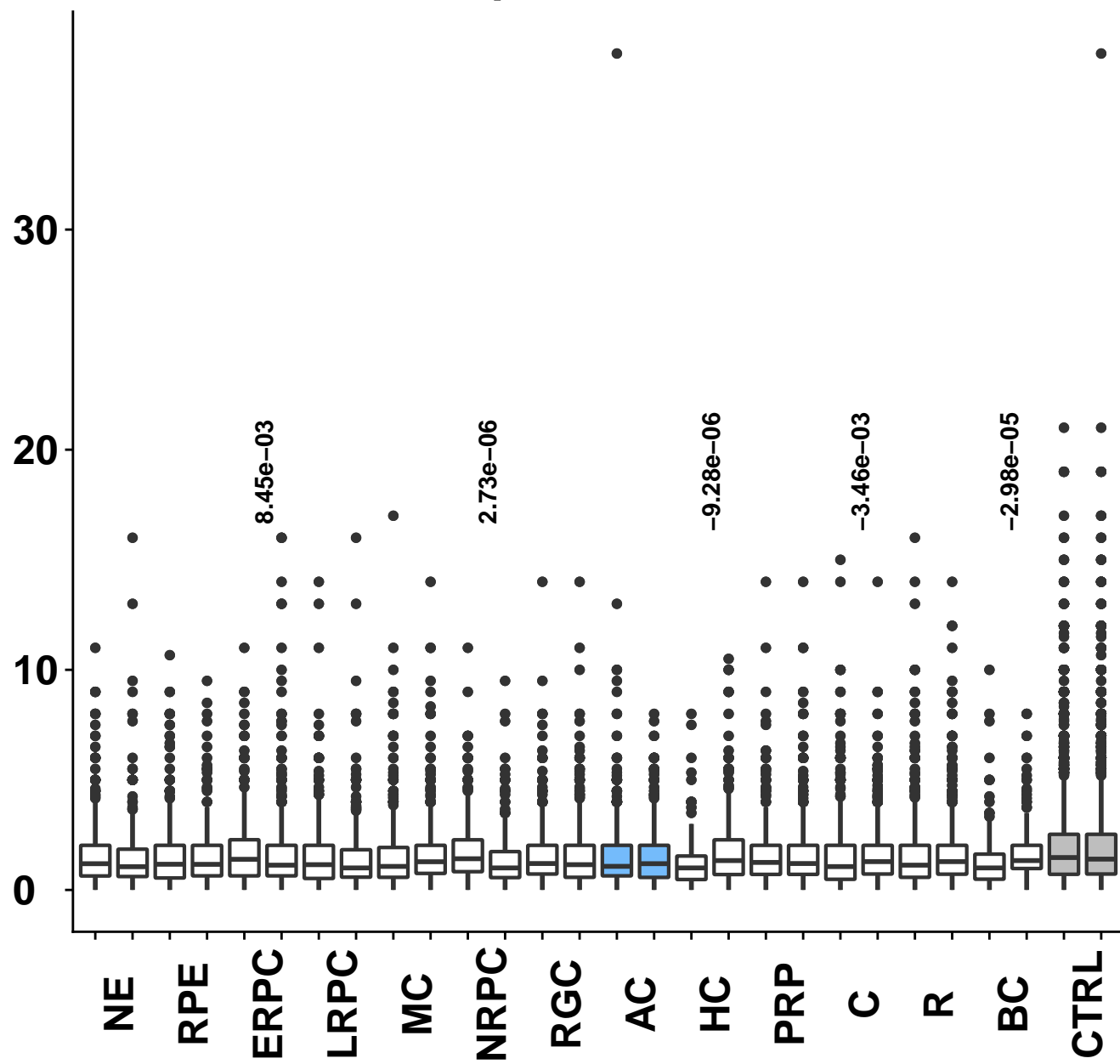
Scrt2_1_mean



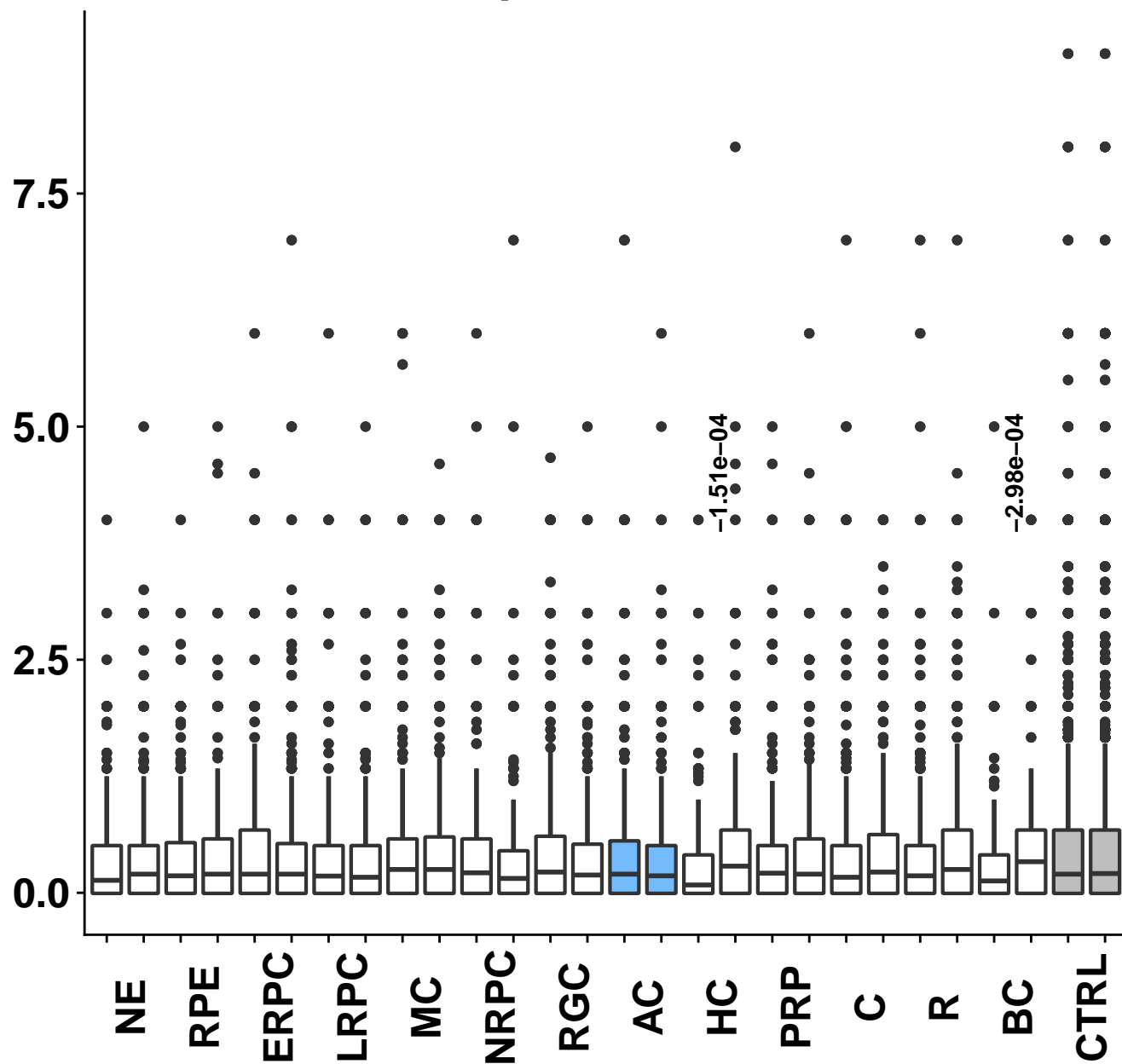
Tfap2a_1_mean



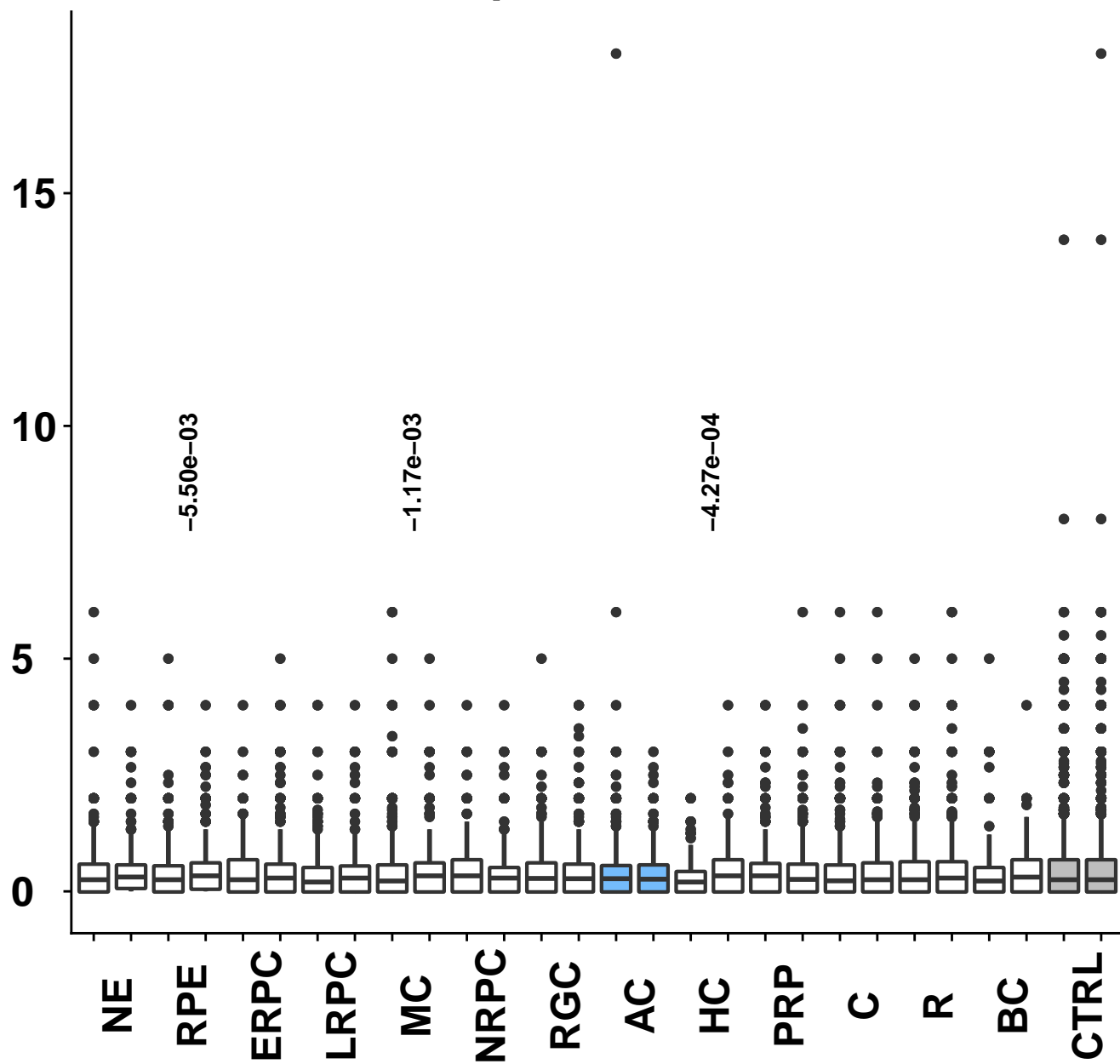
Tfap2a_2_mean



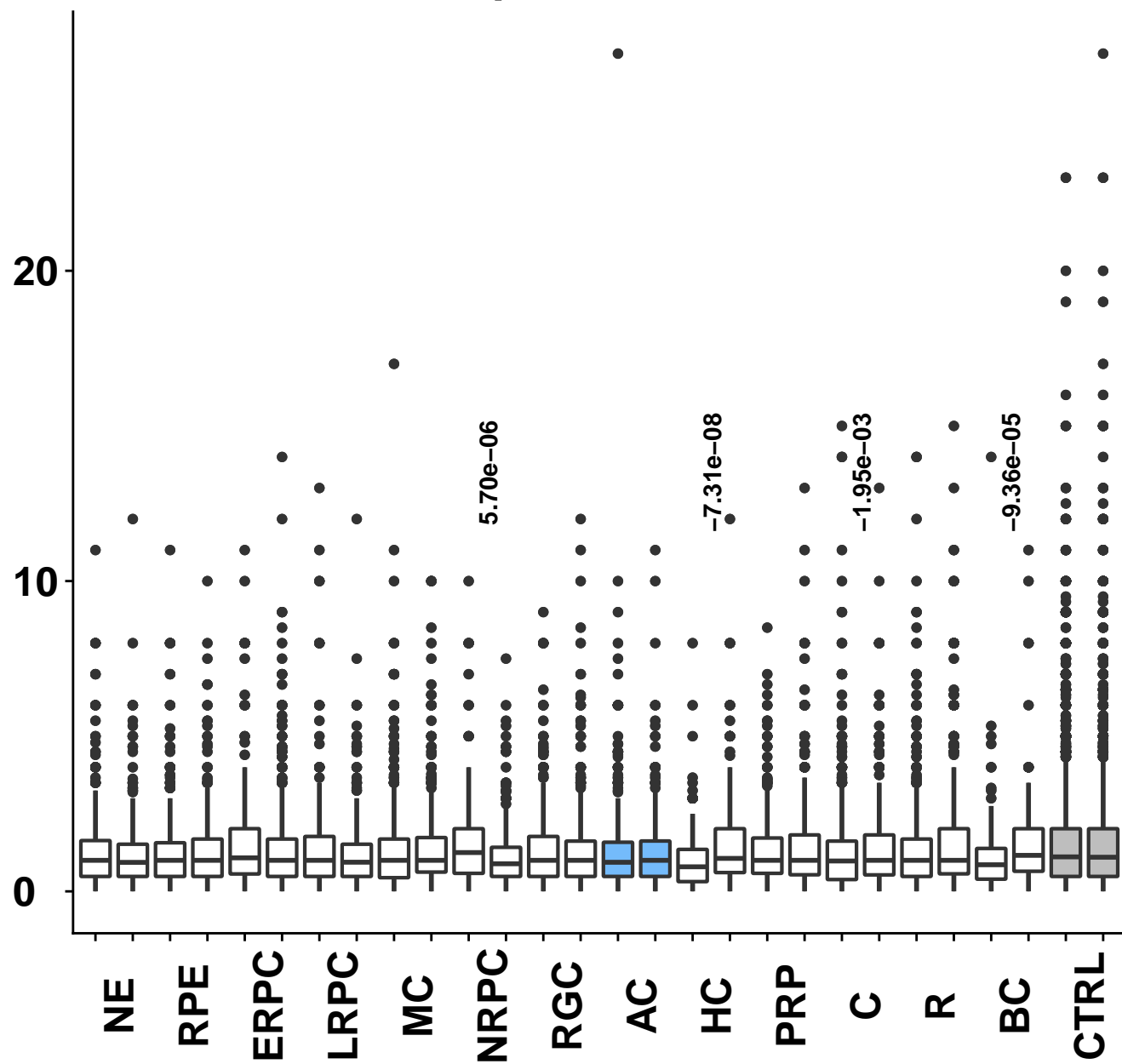
Tfap2a_3_mean



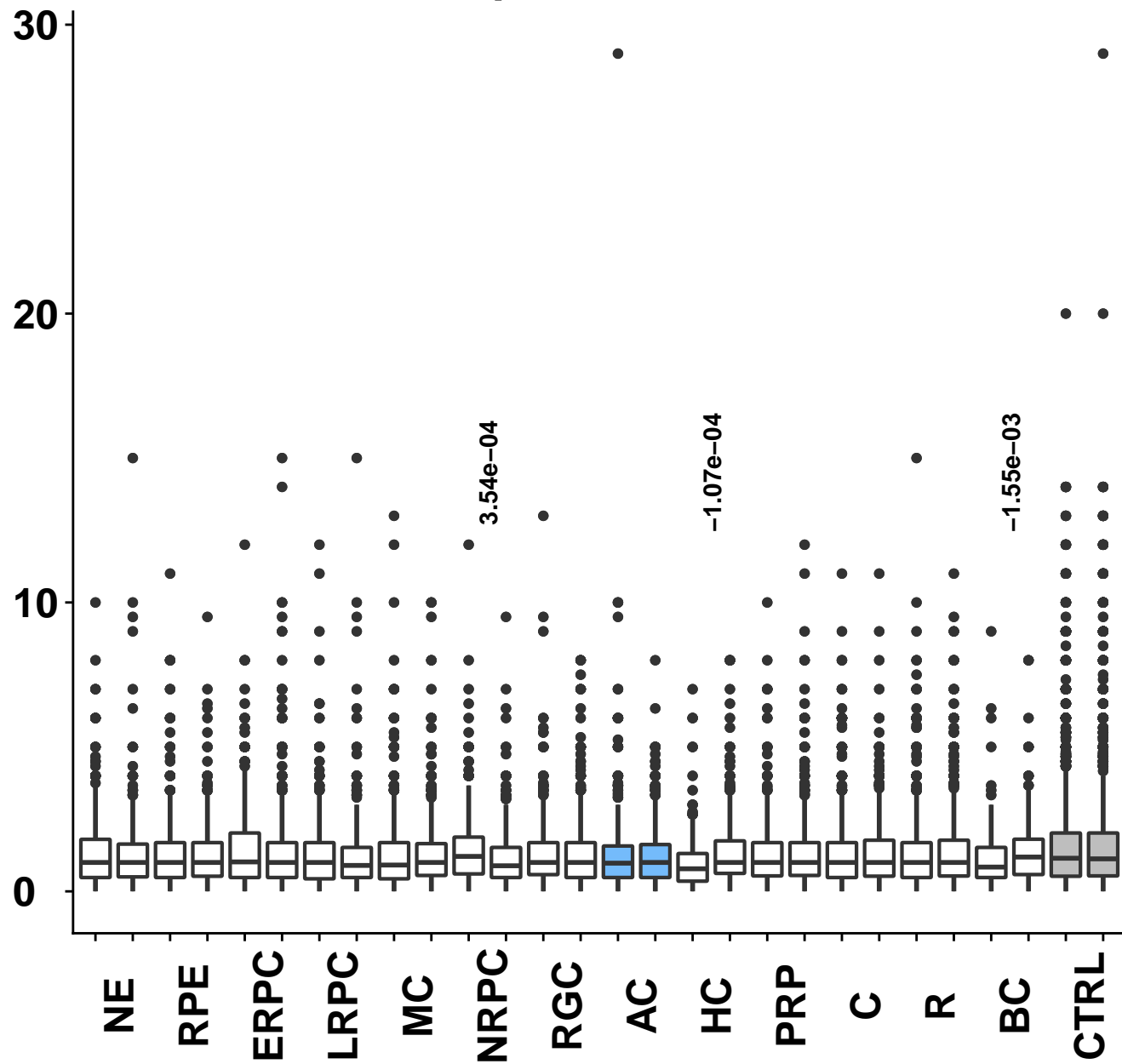
Tfap2c_1_mean



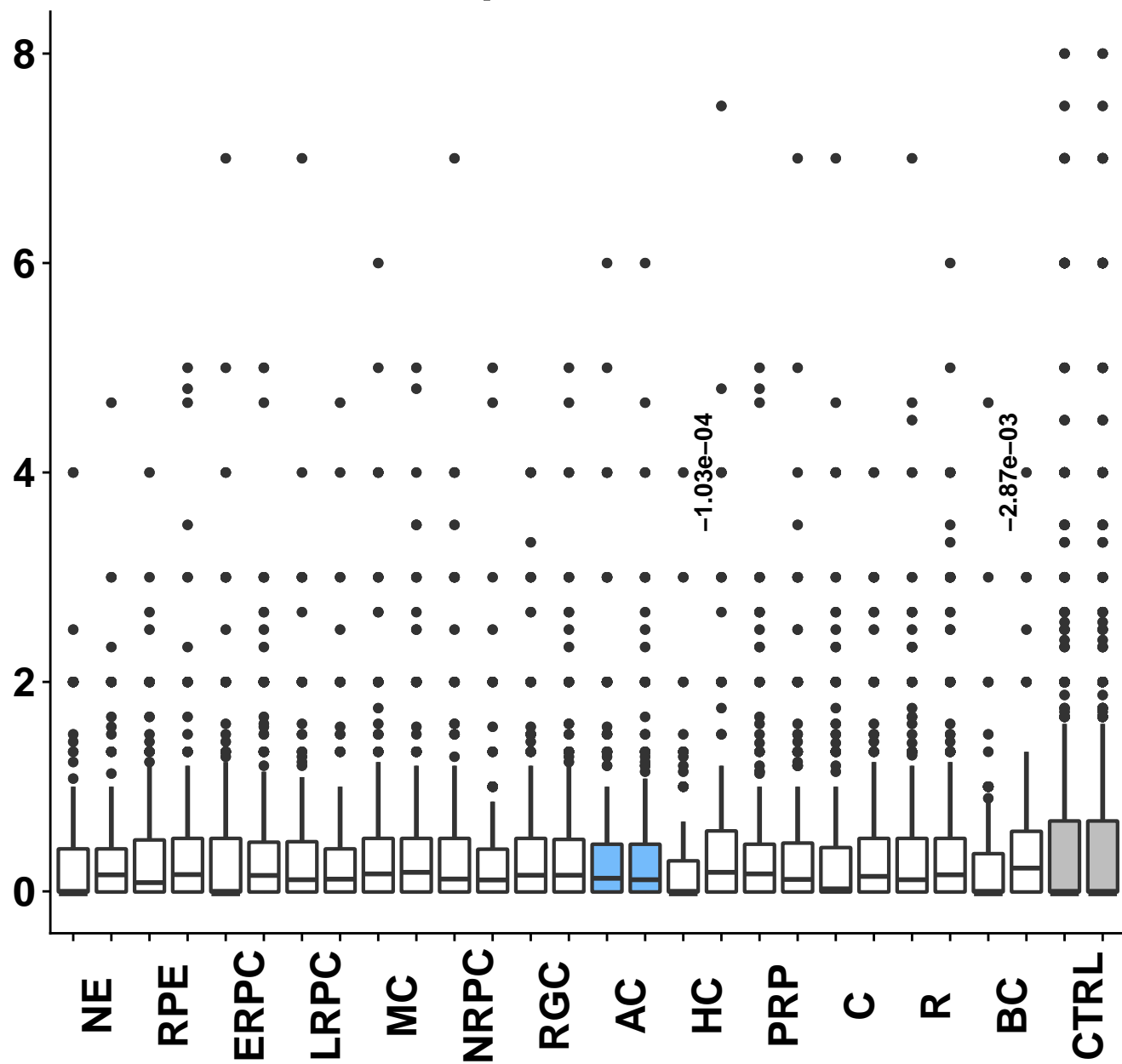
Tfap2c_2_mean



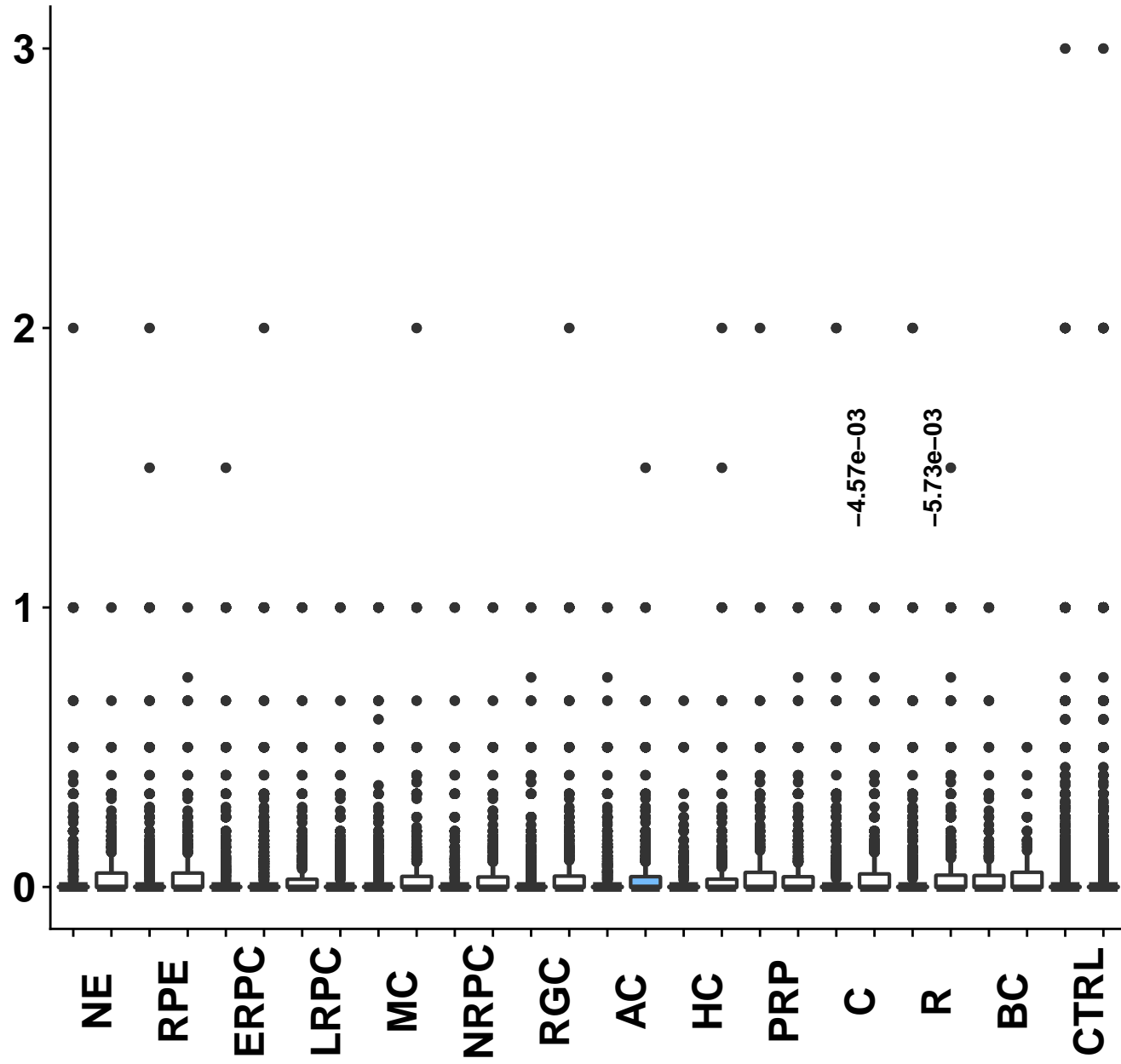
Tfap2c_3_mean



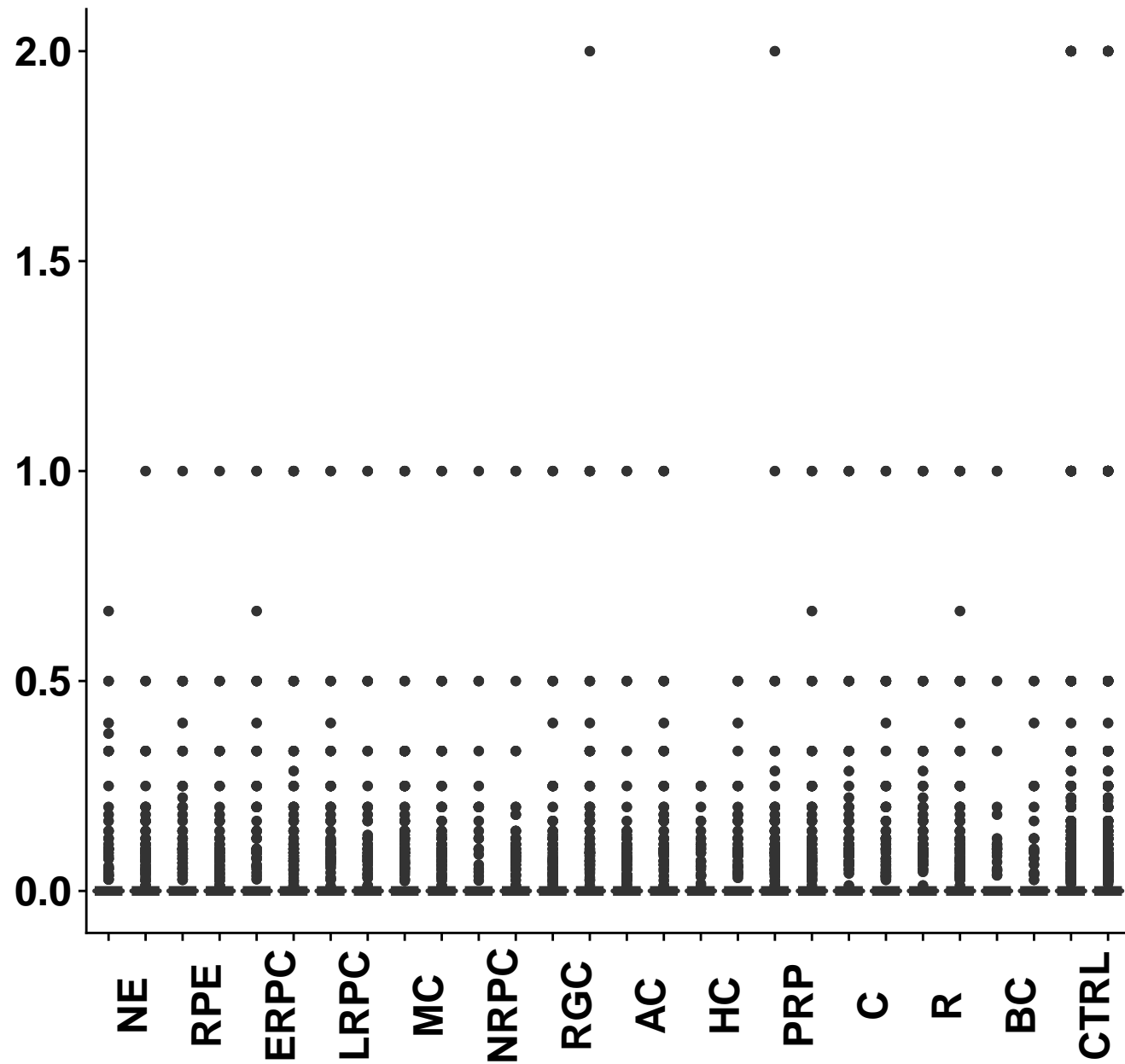
Tfap2c_4_mean



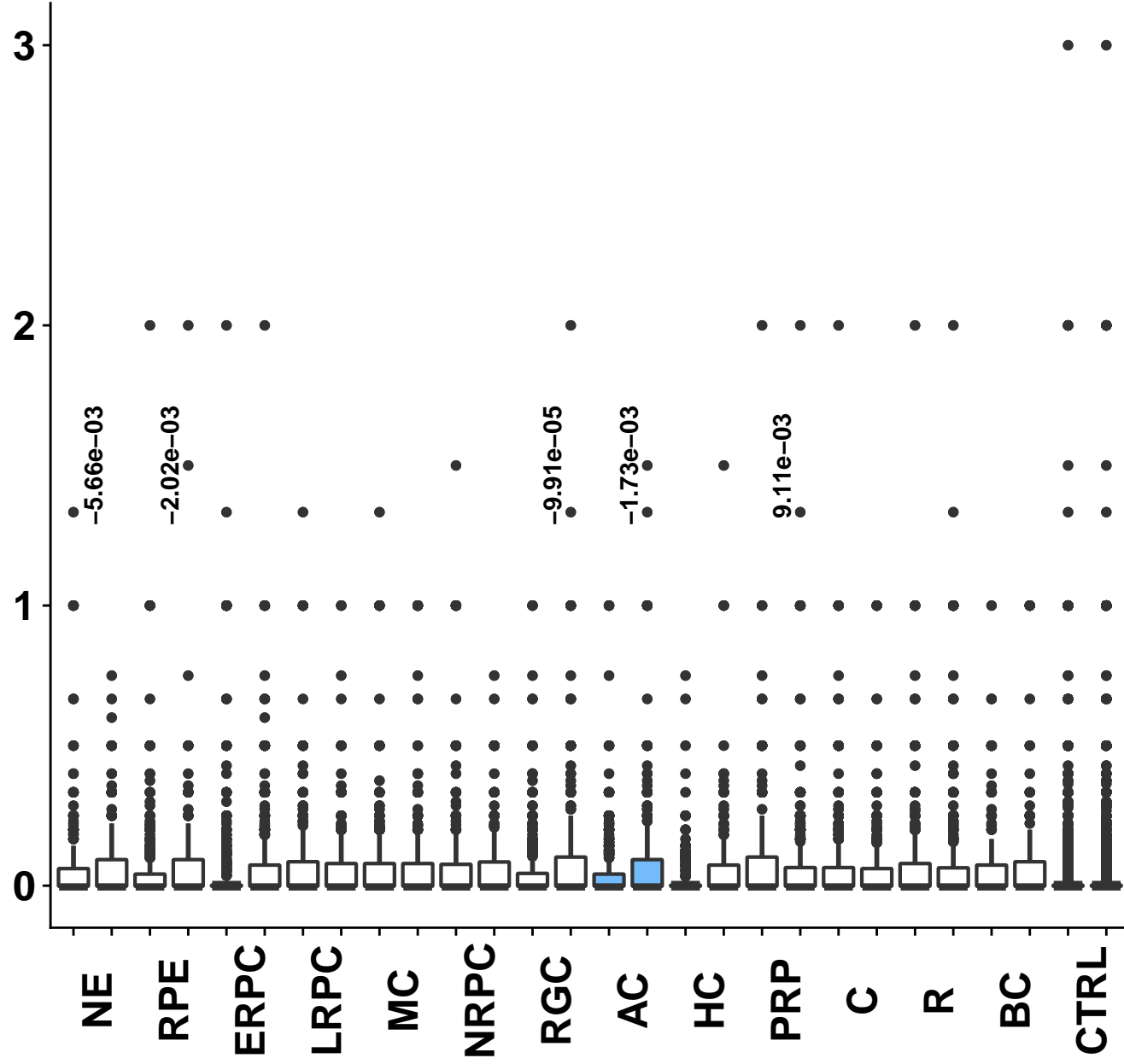
Zbtb12_1_mean



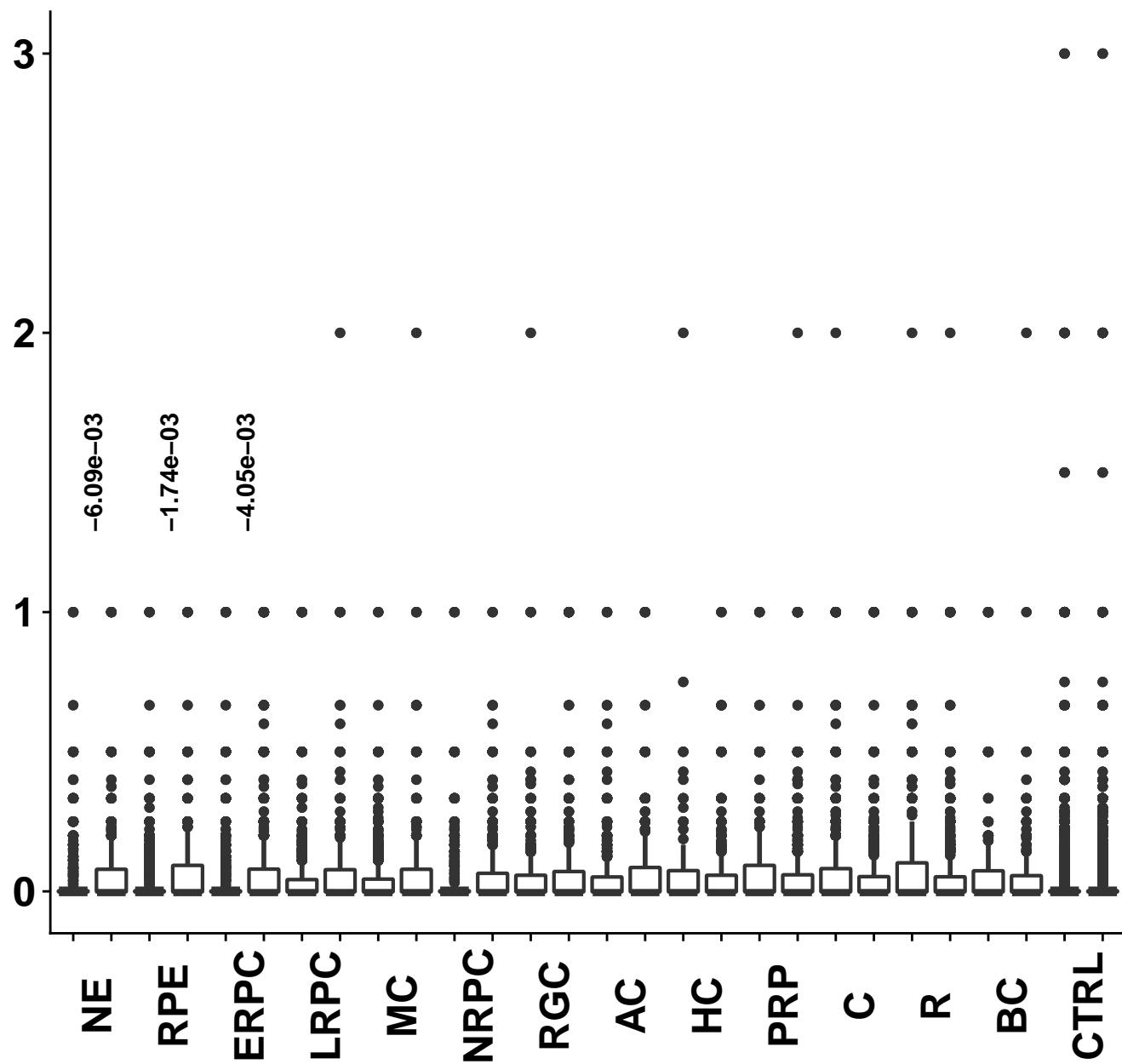
Zbtb12_2_mean



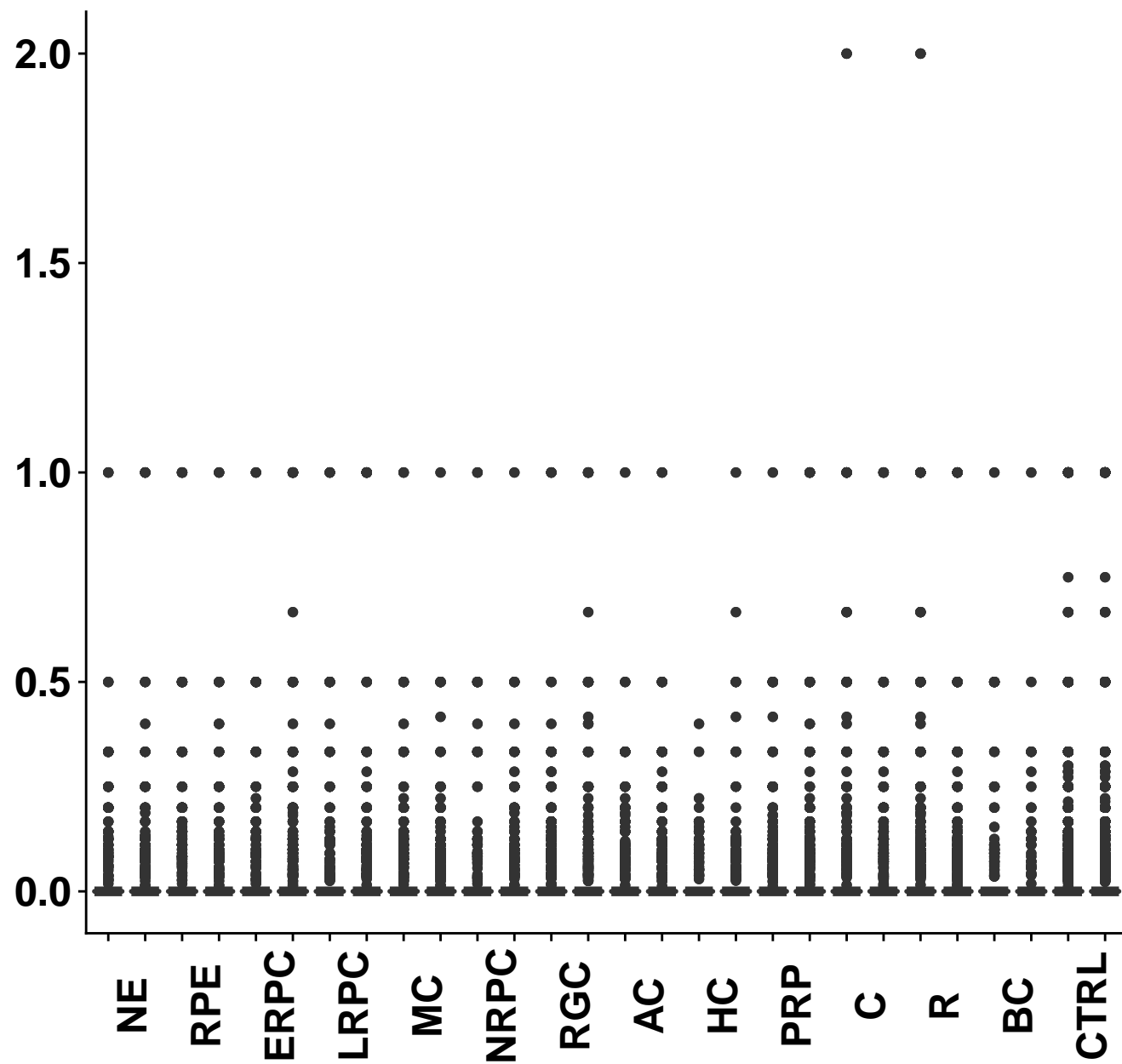
Zbtb12_3_mean



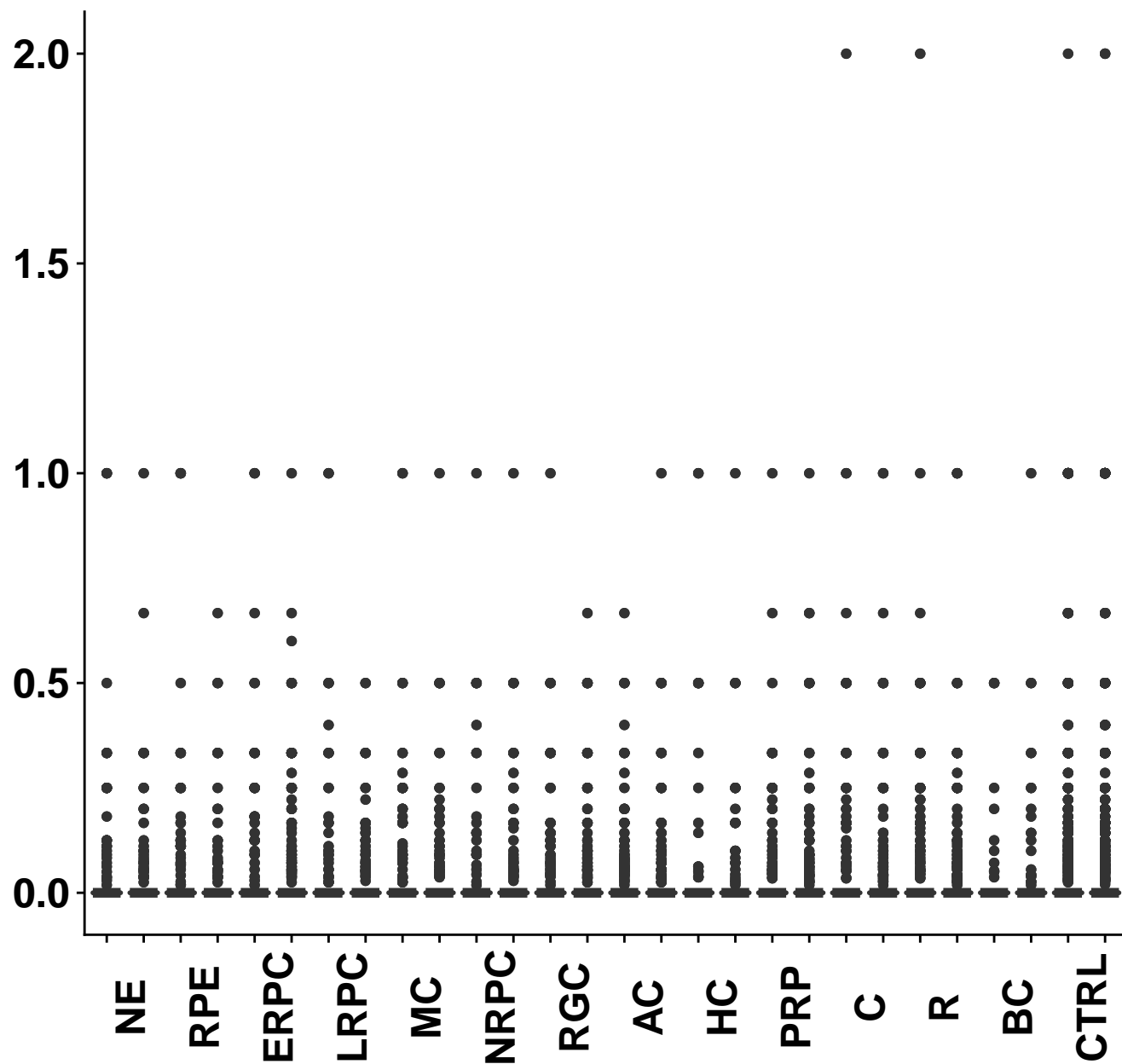
Esrrb_1_mean



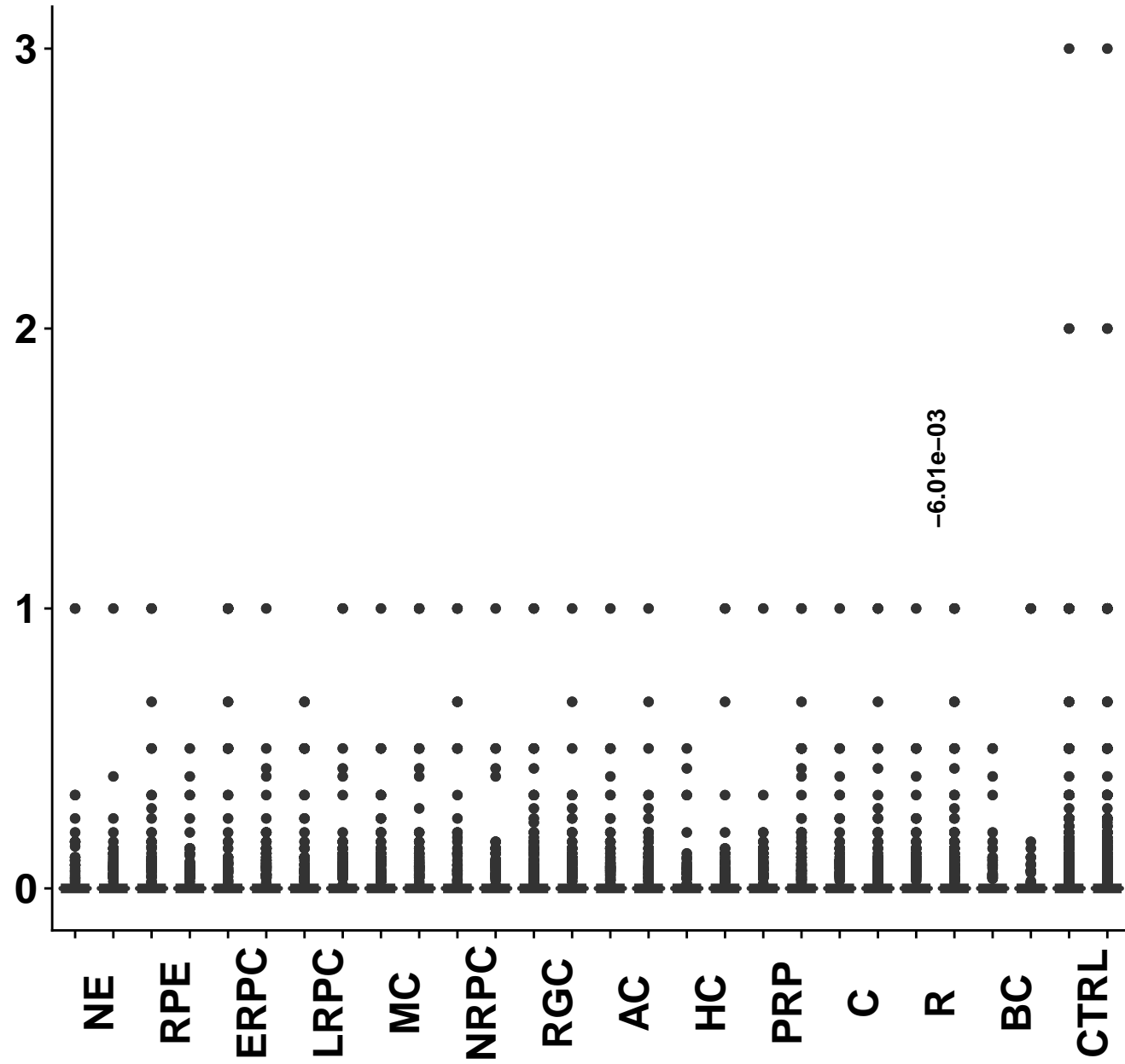
Esrrb_2_mean



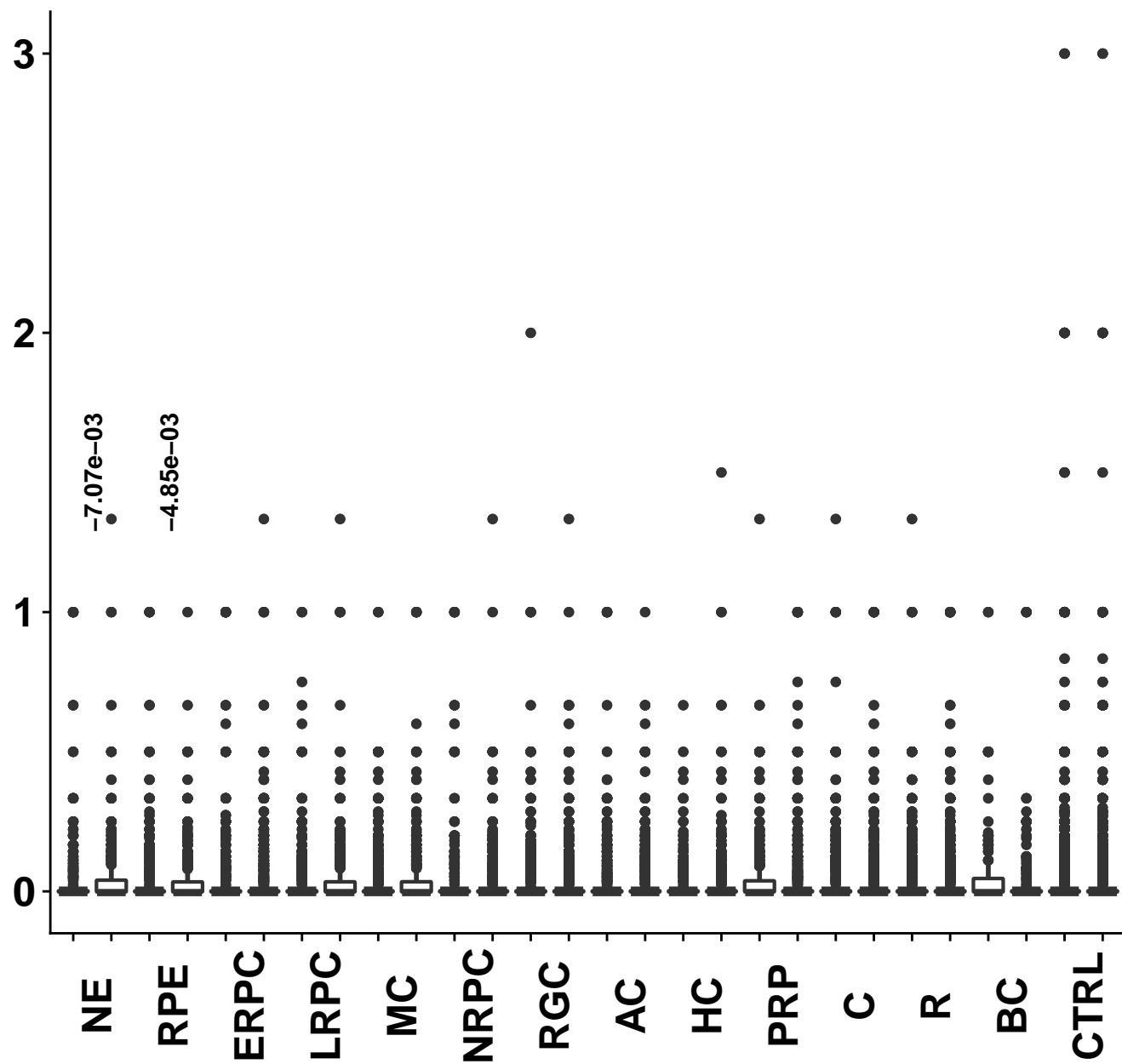
Prox1_1_mean



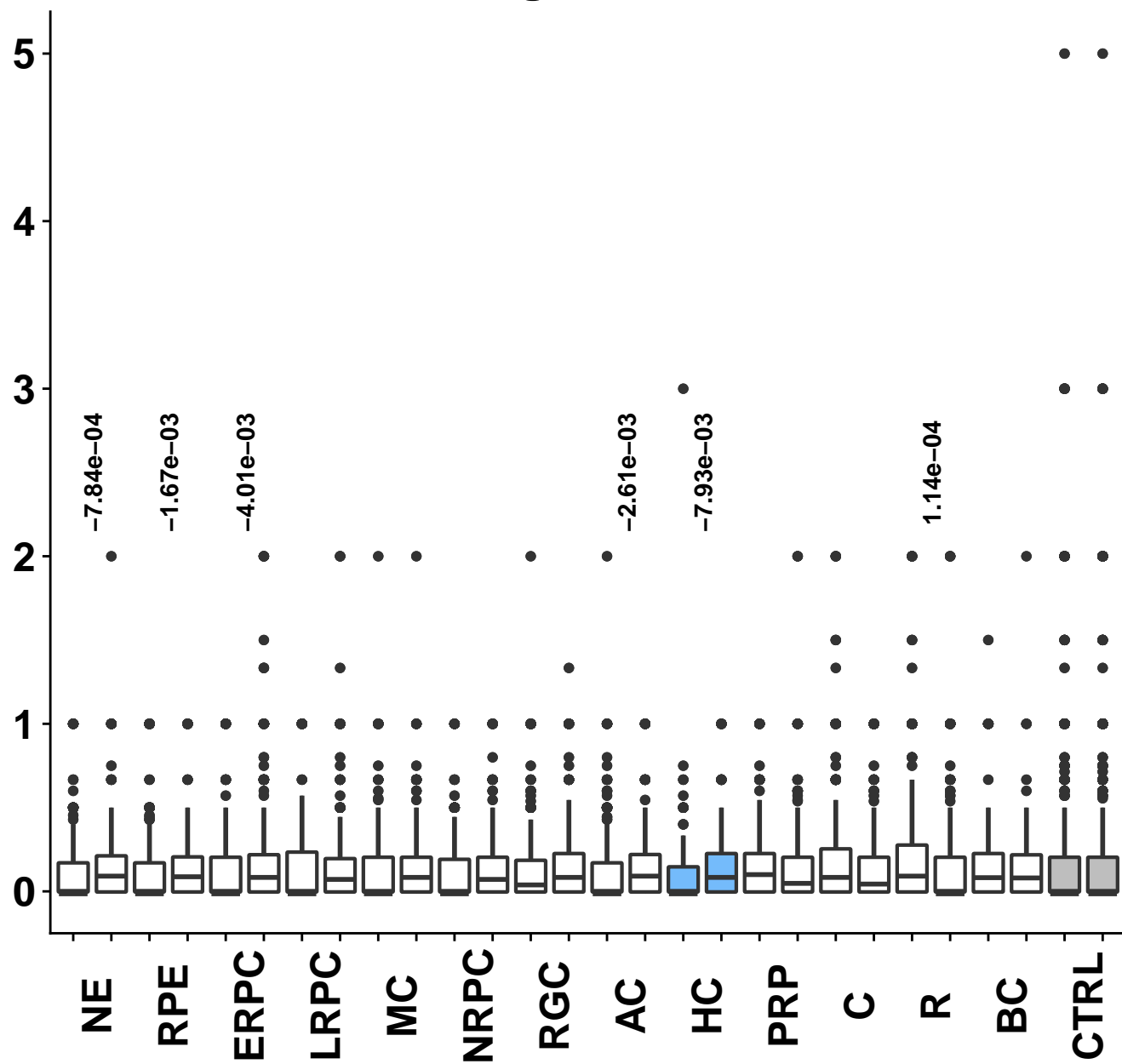
Cux2_1_mean



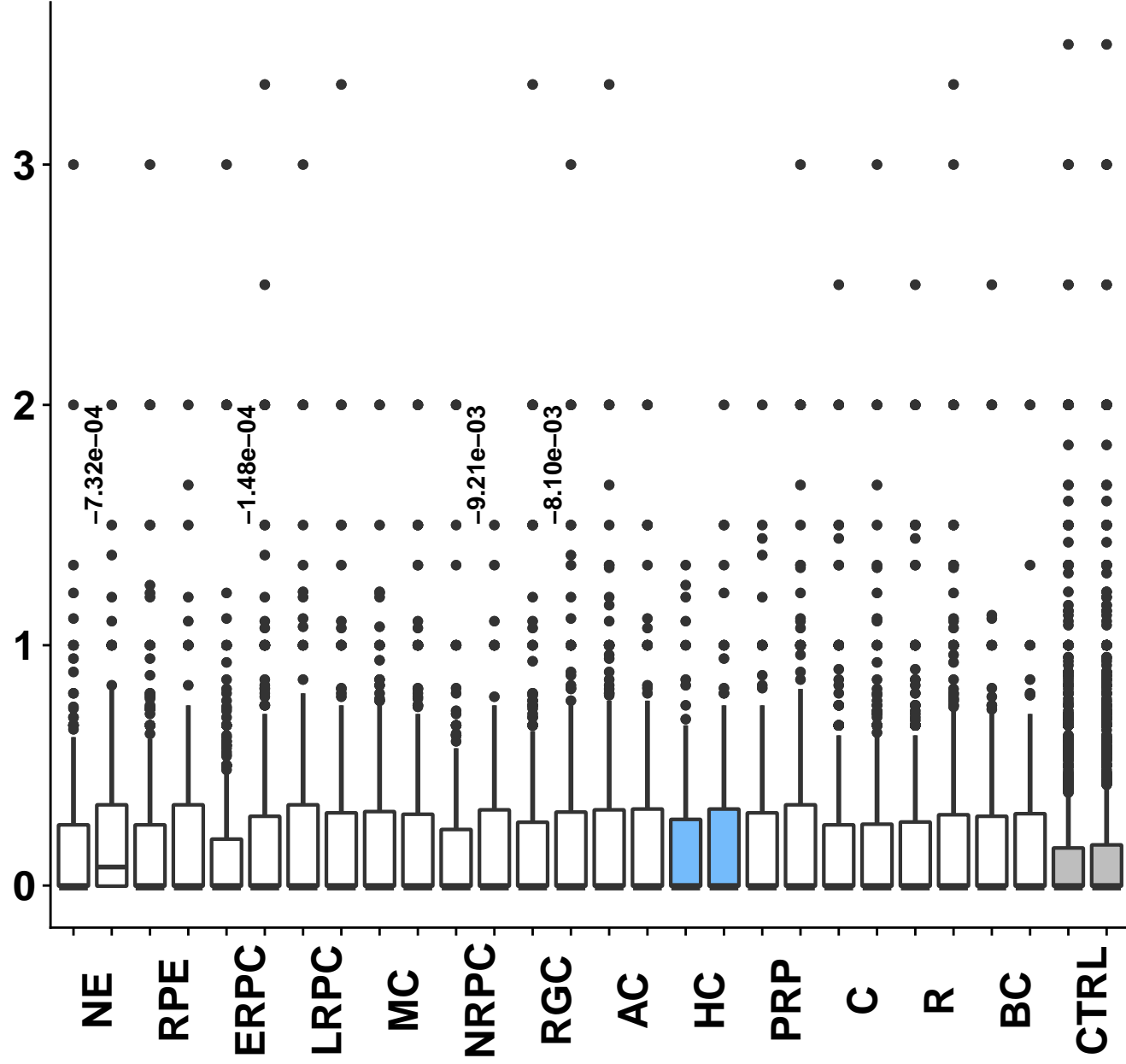
Cux2_2_mean



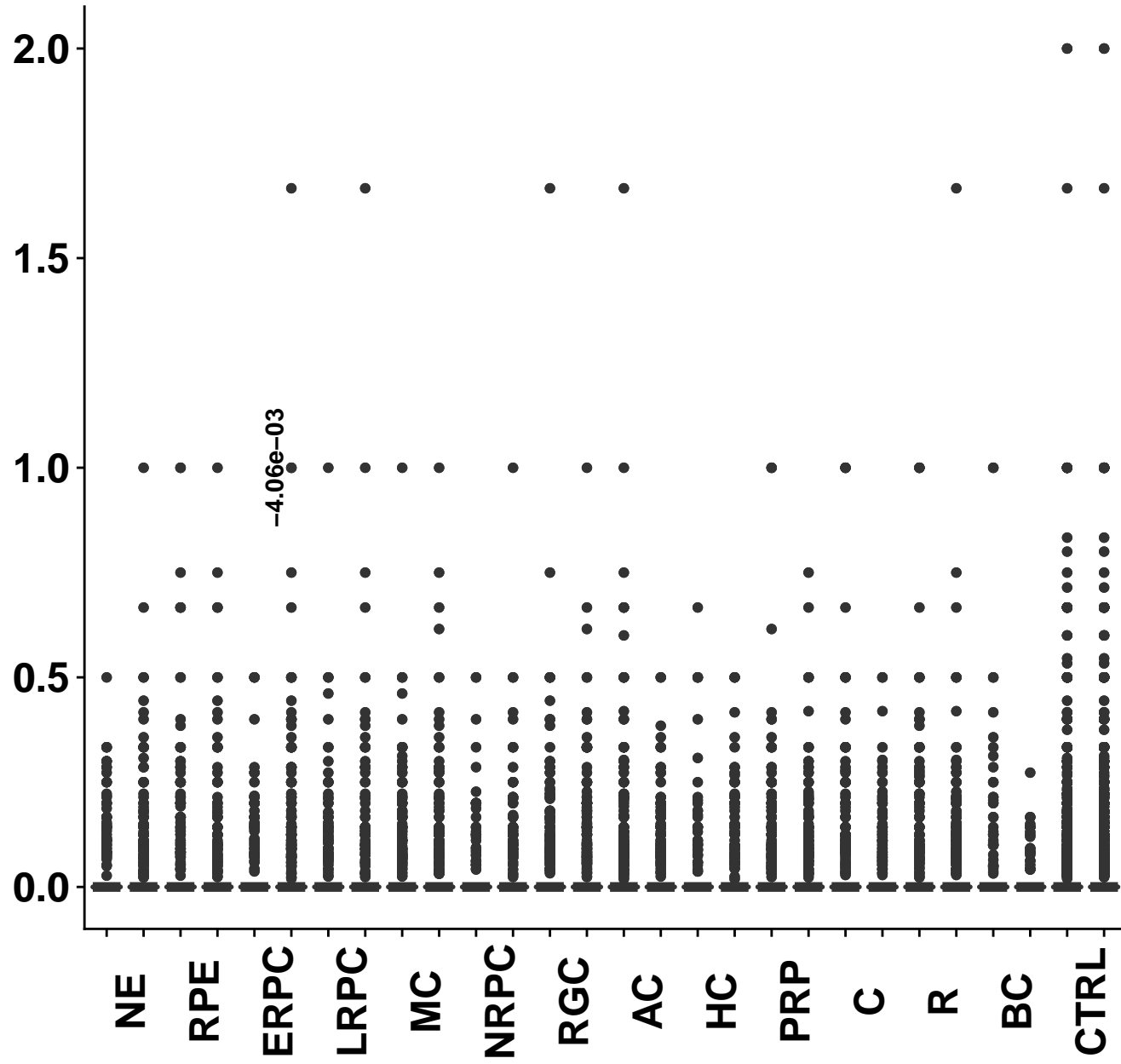
Esrrg_1_mean



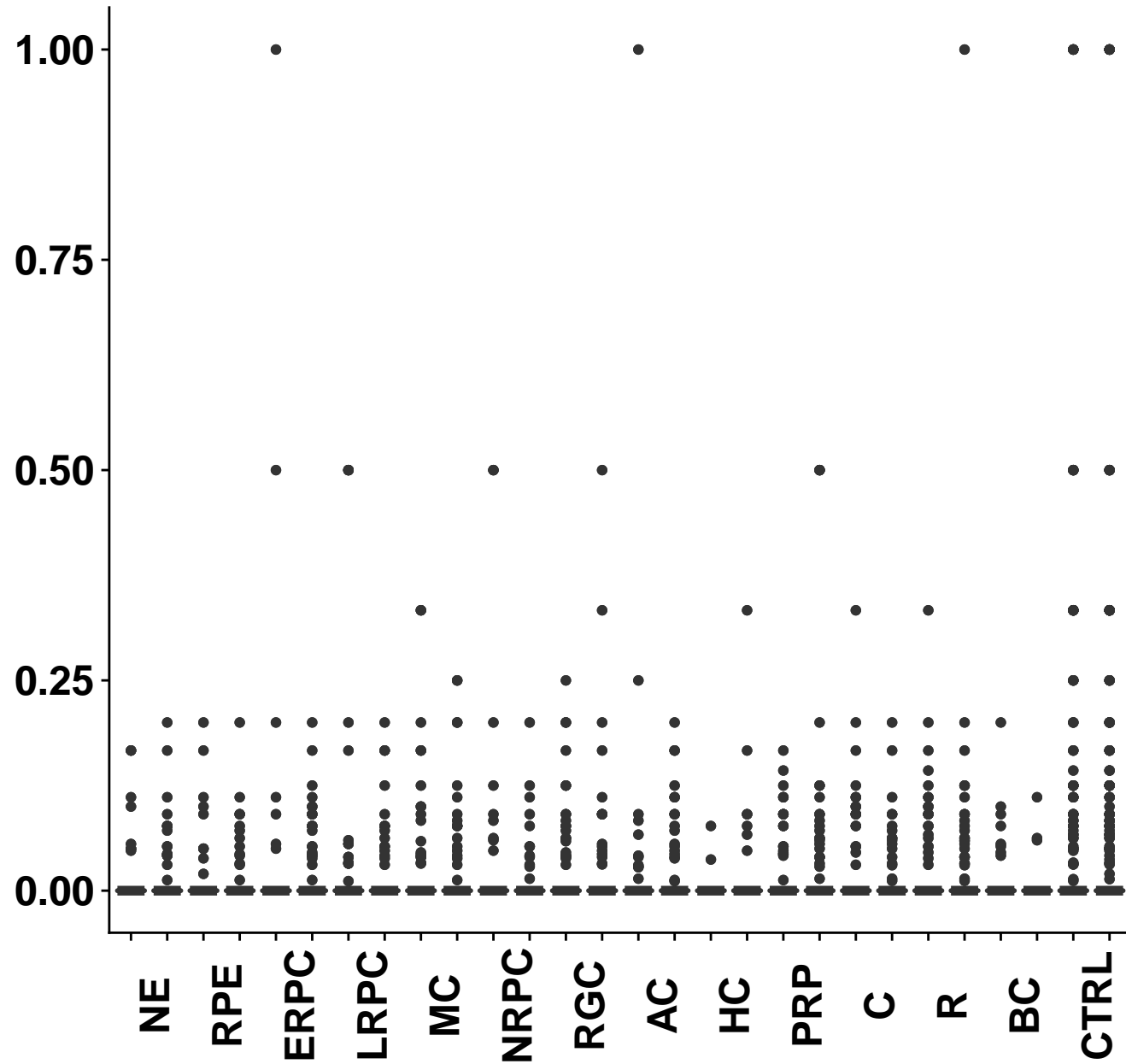
Lhx1_1_mean



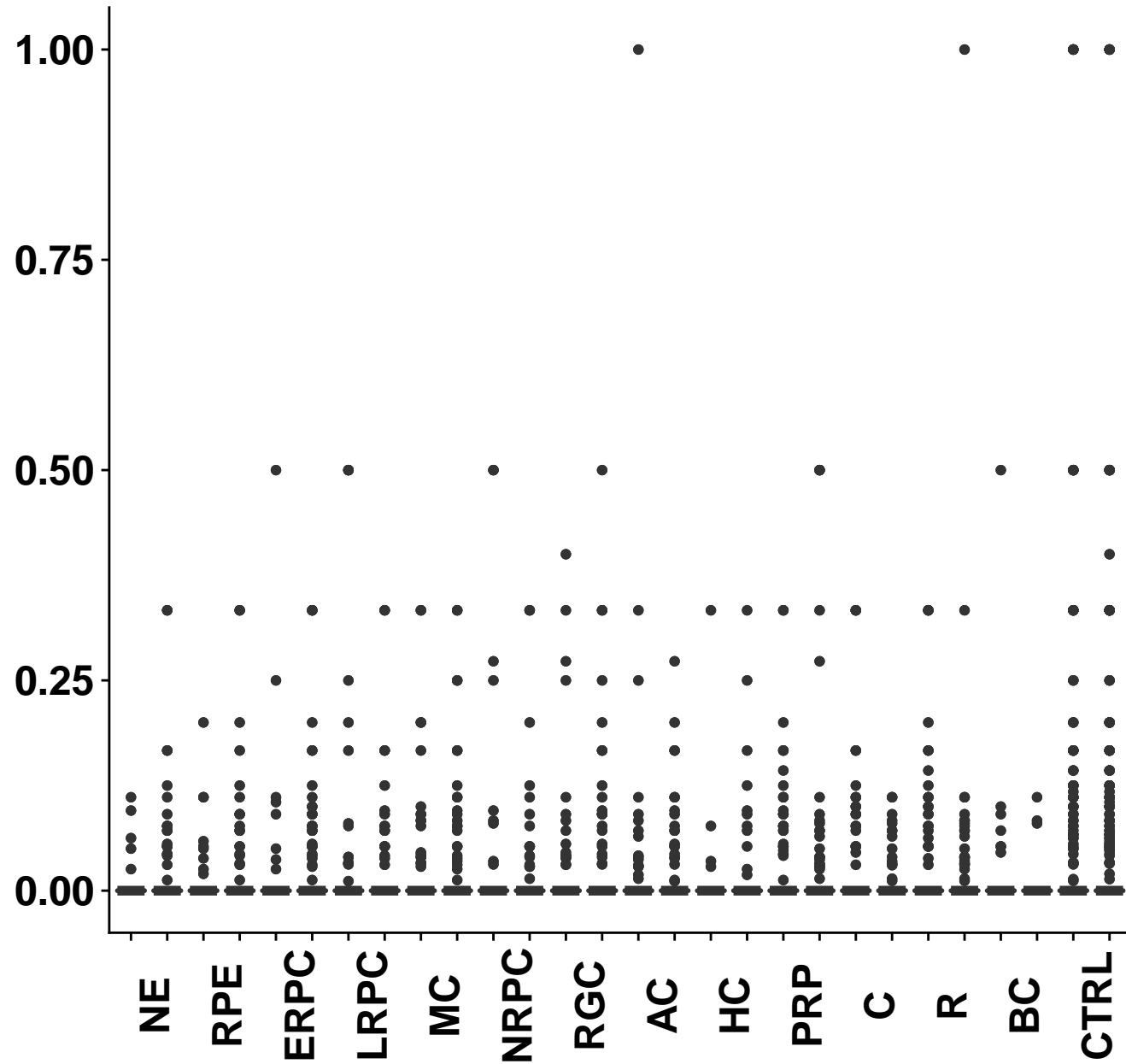
Lhx1_2_mean



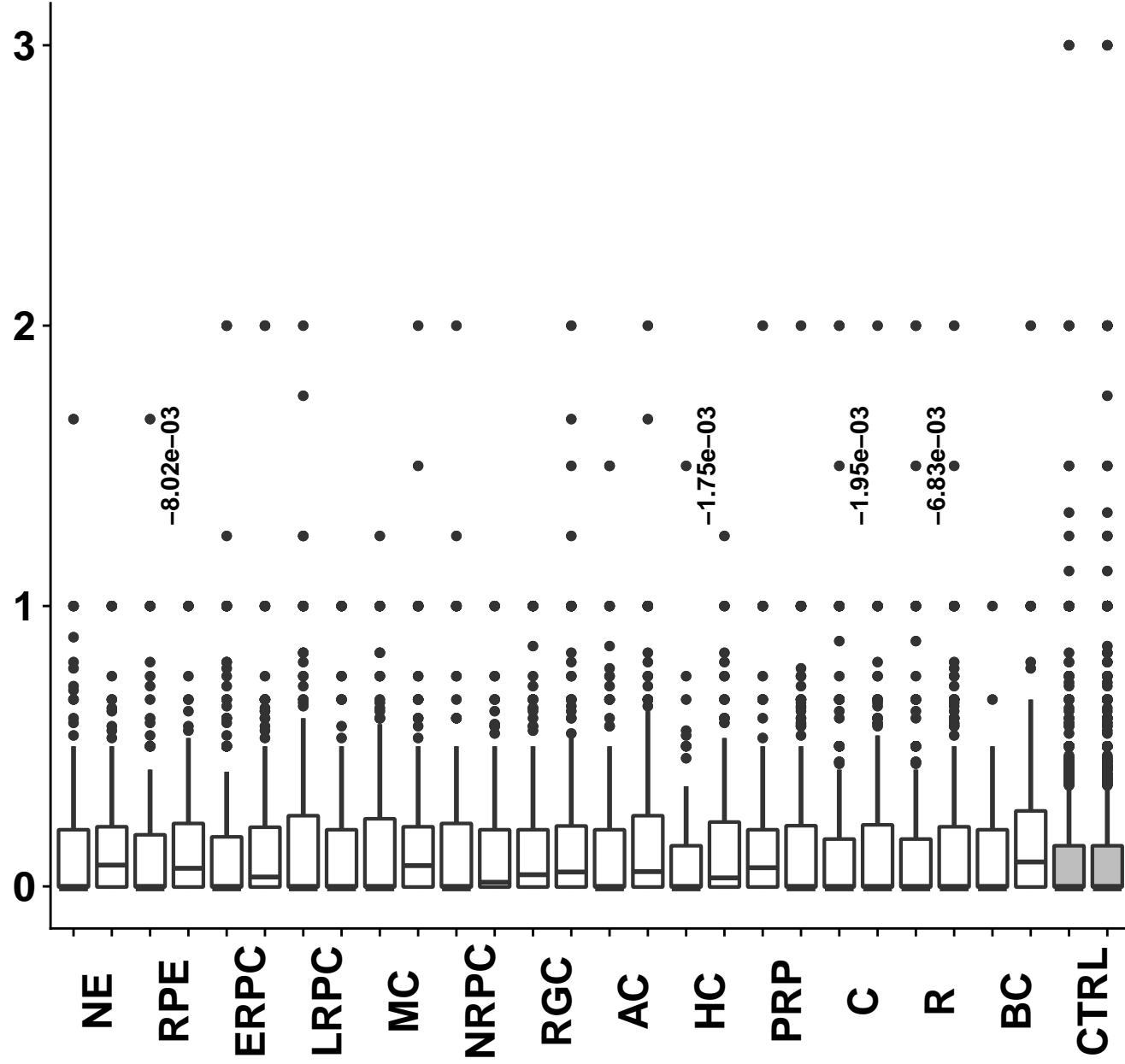
Onecut1_1_mean



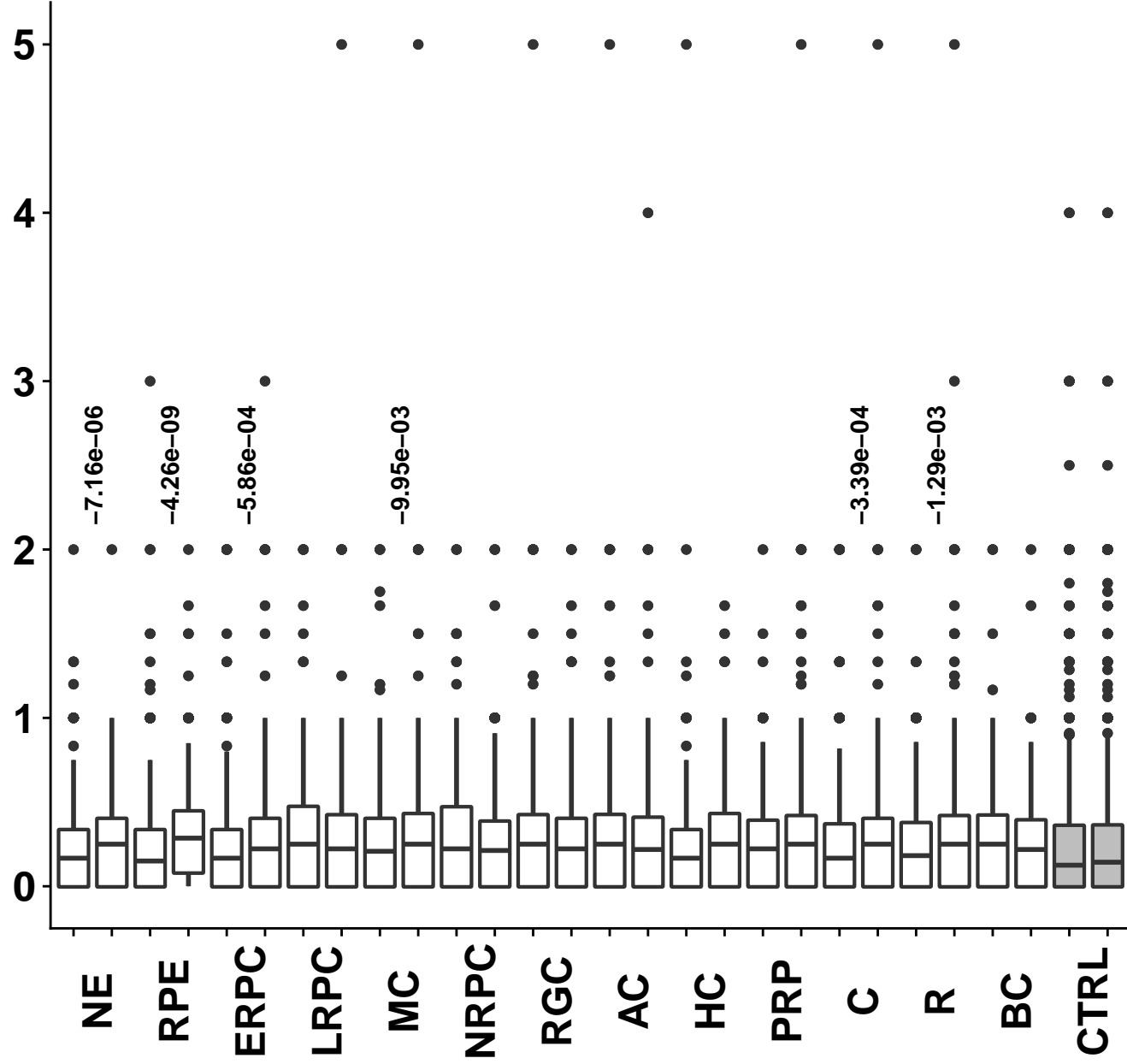
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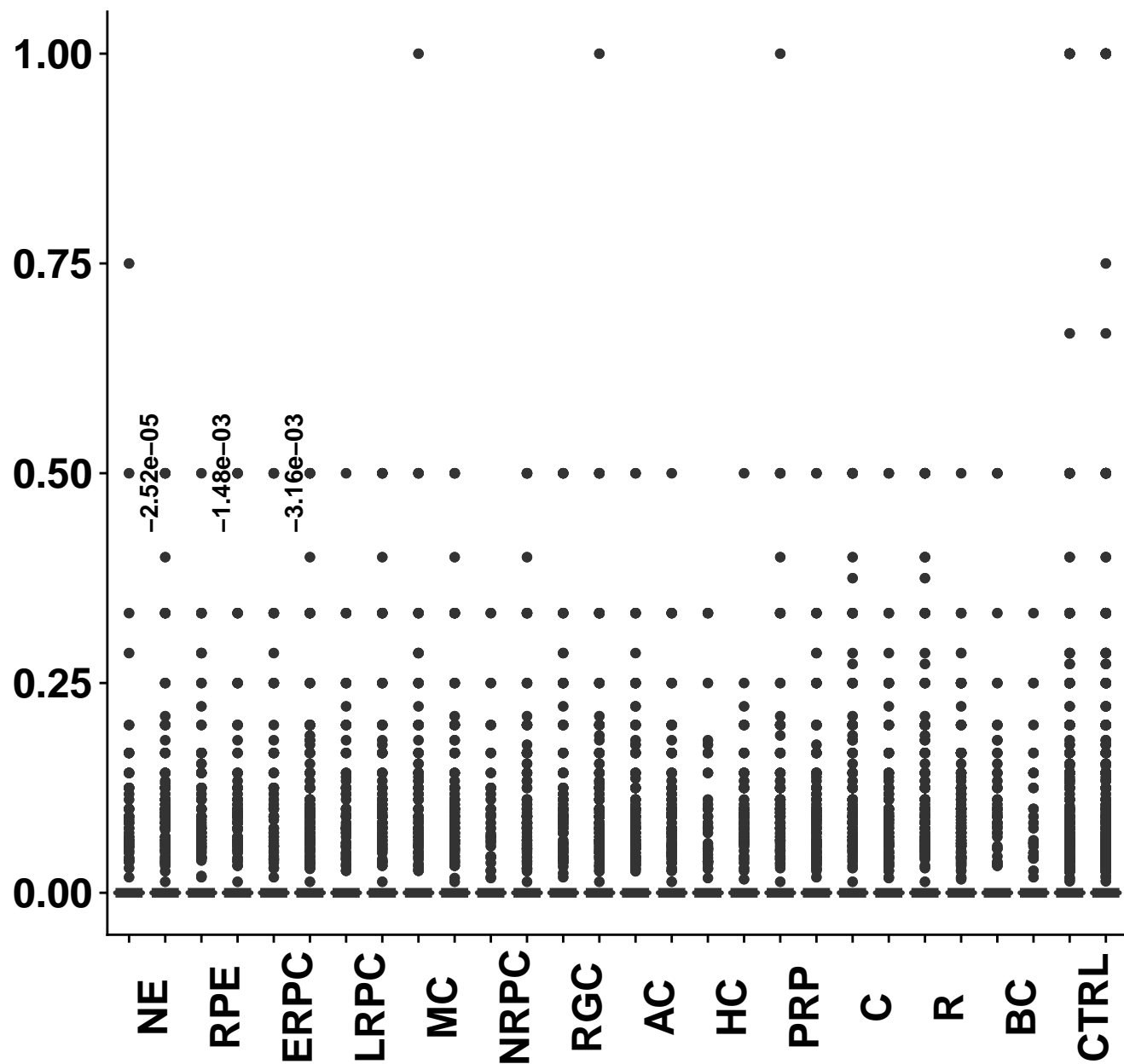
Sox12_1_mean



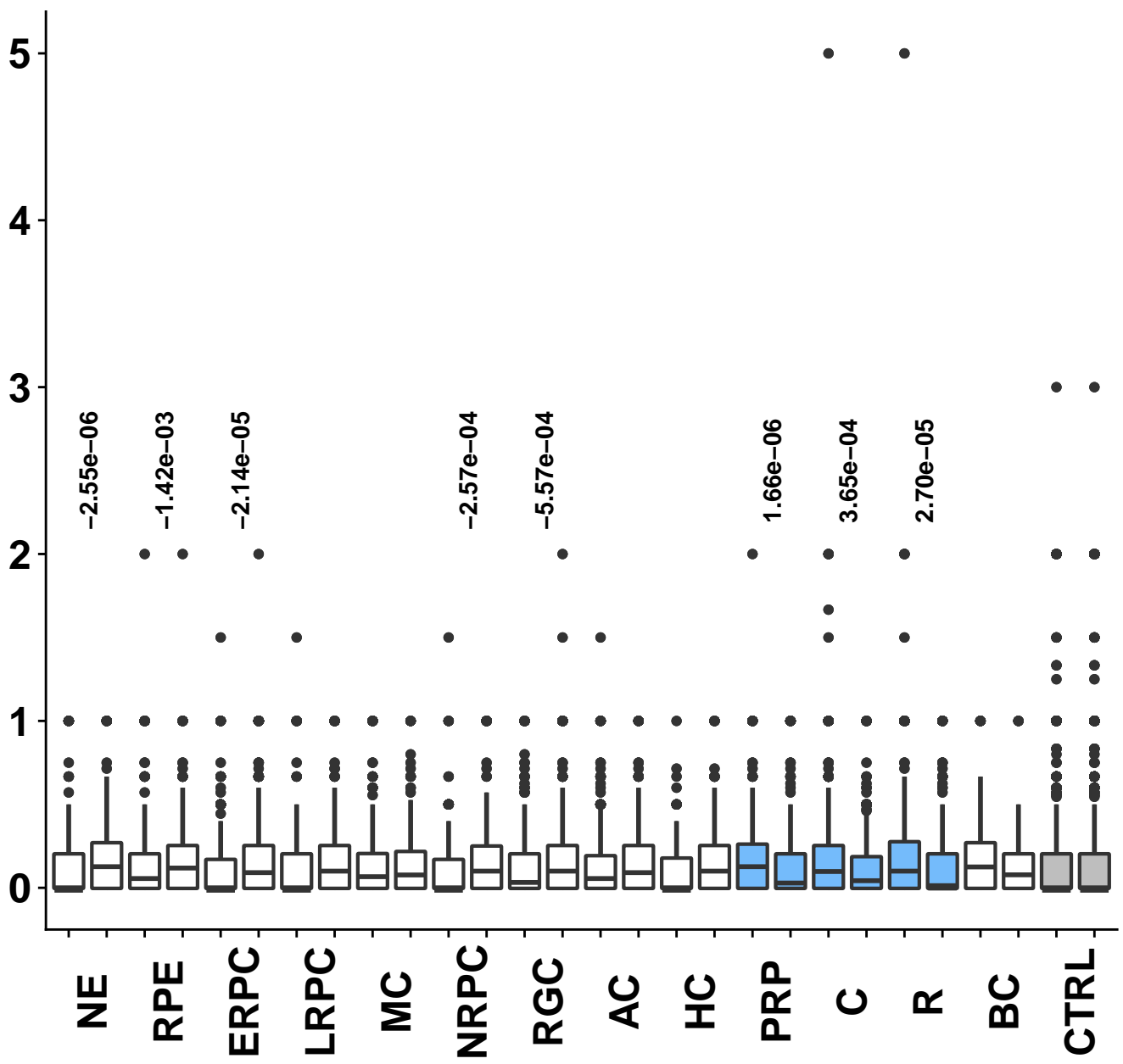
Sox12_2_mean



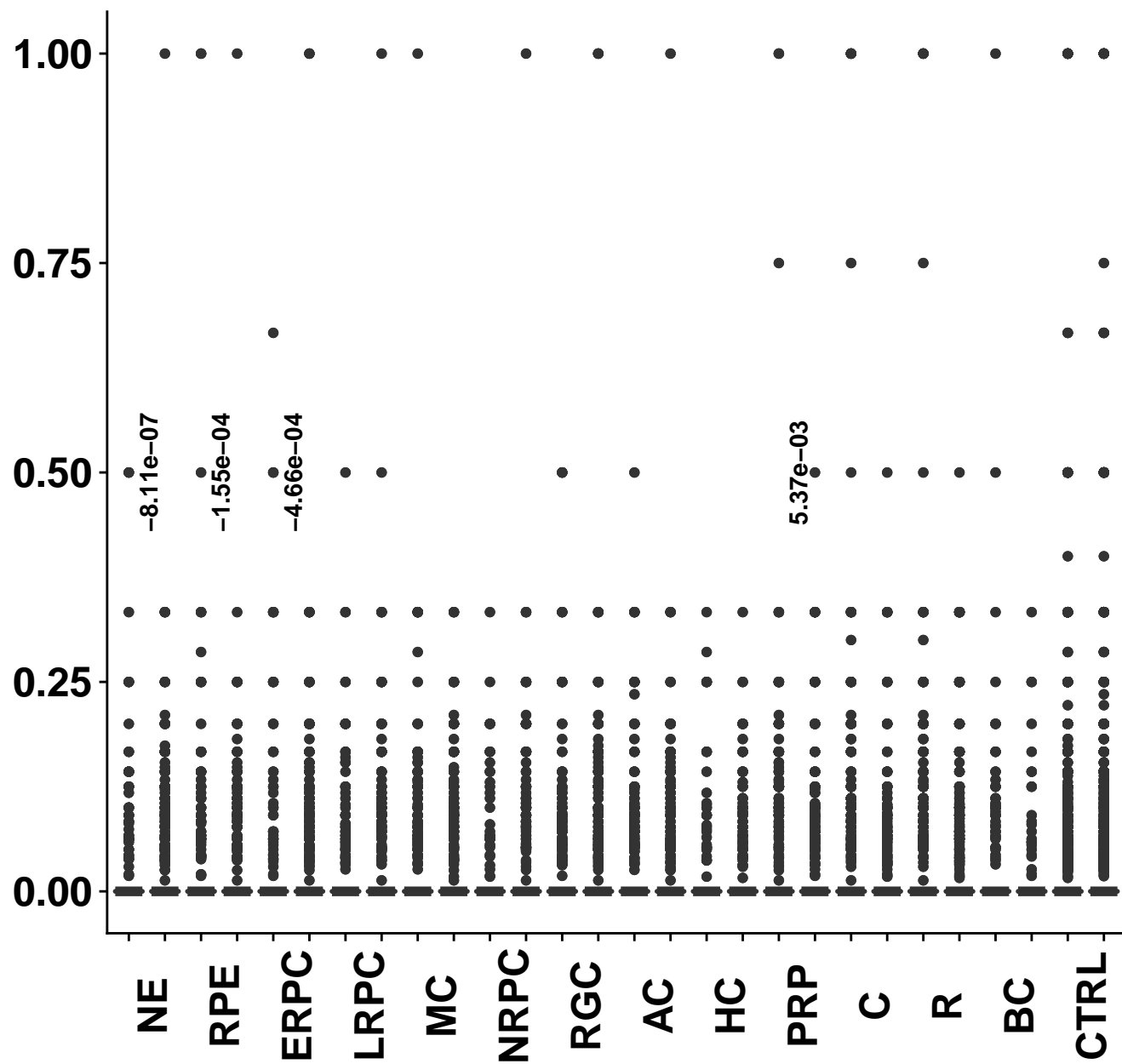
Rora_1_mean



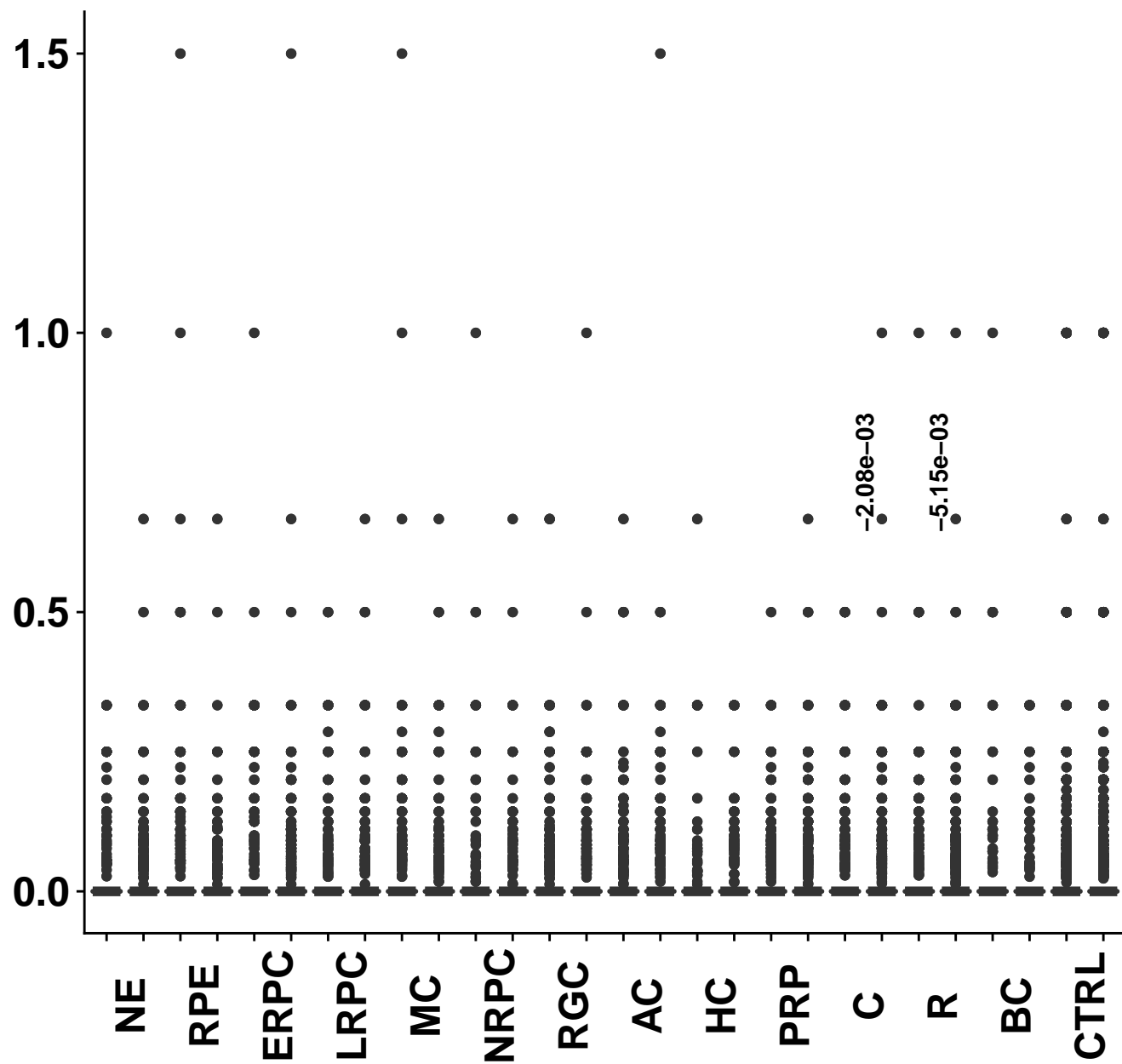
Rora_2_mean



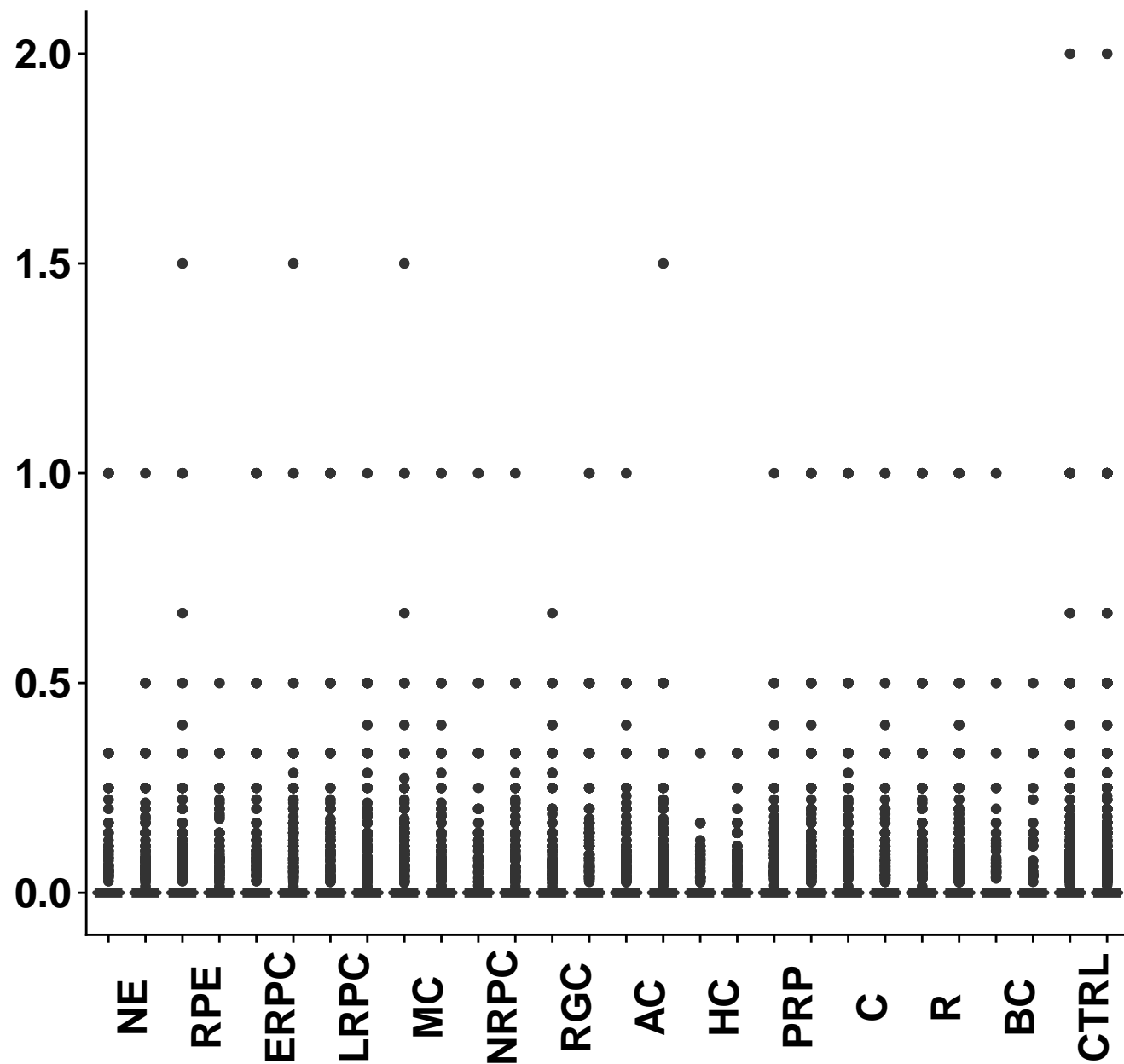
Rora_3_mean



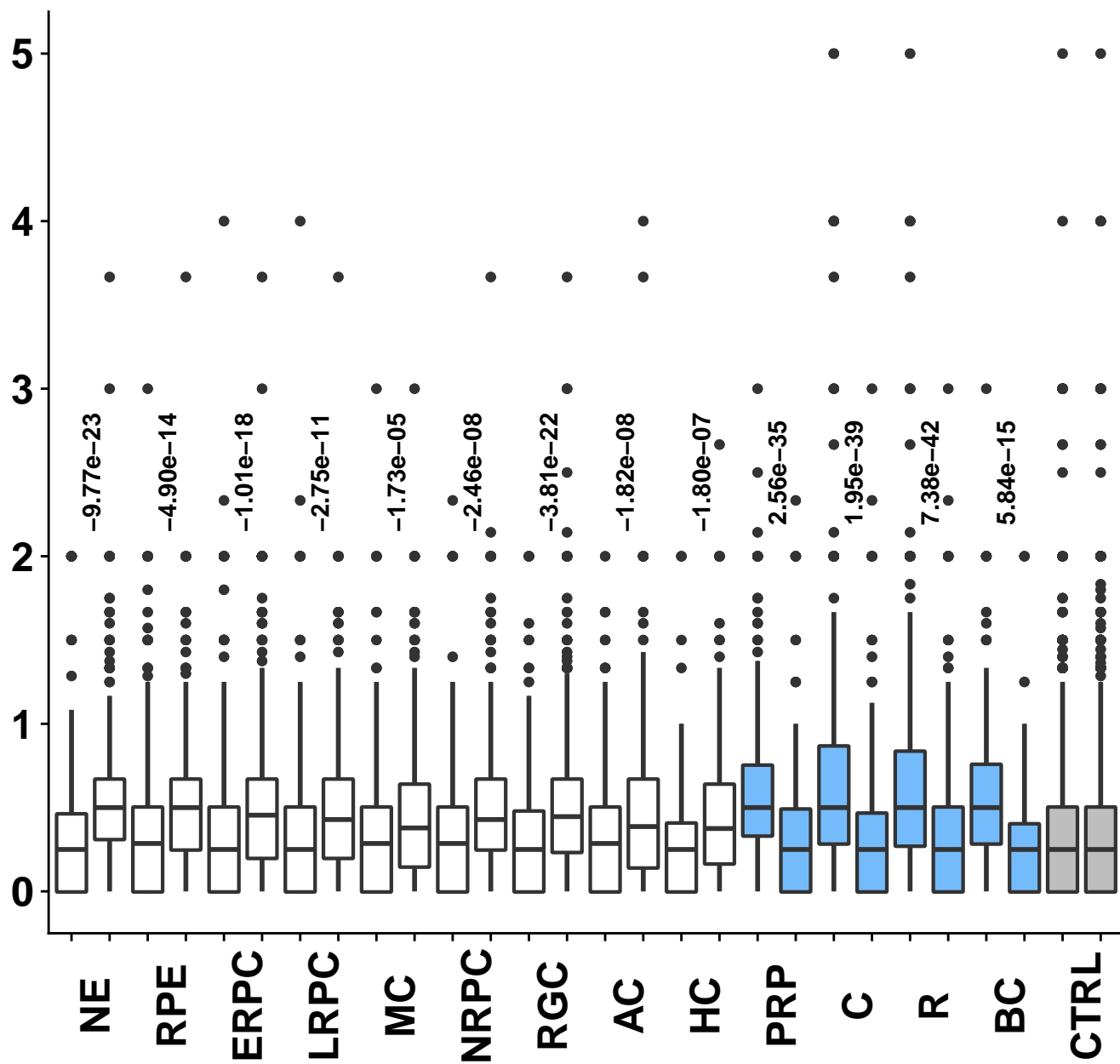
Atf4_1_mean



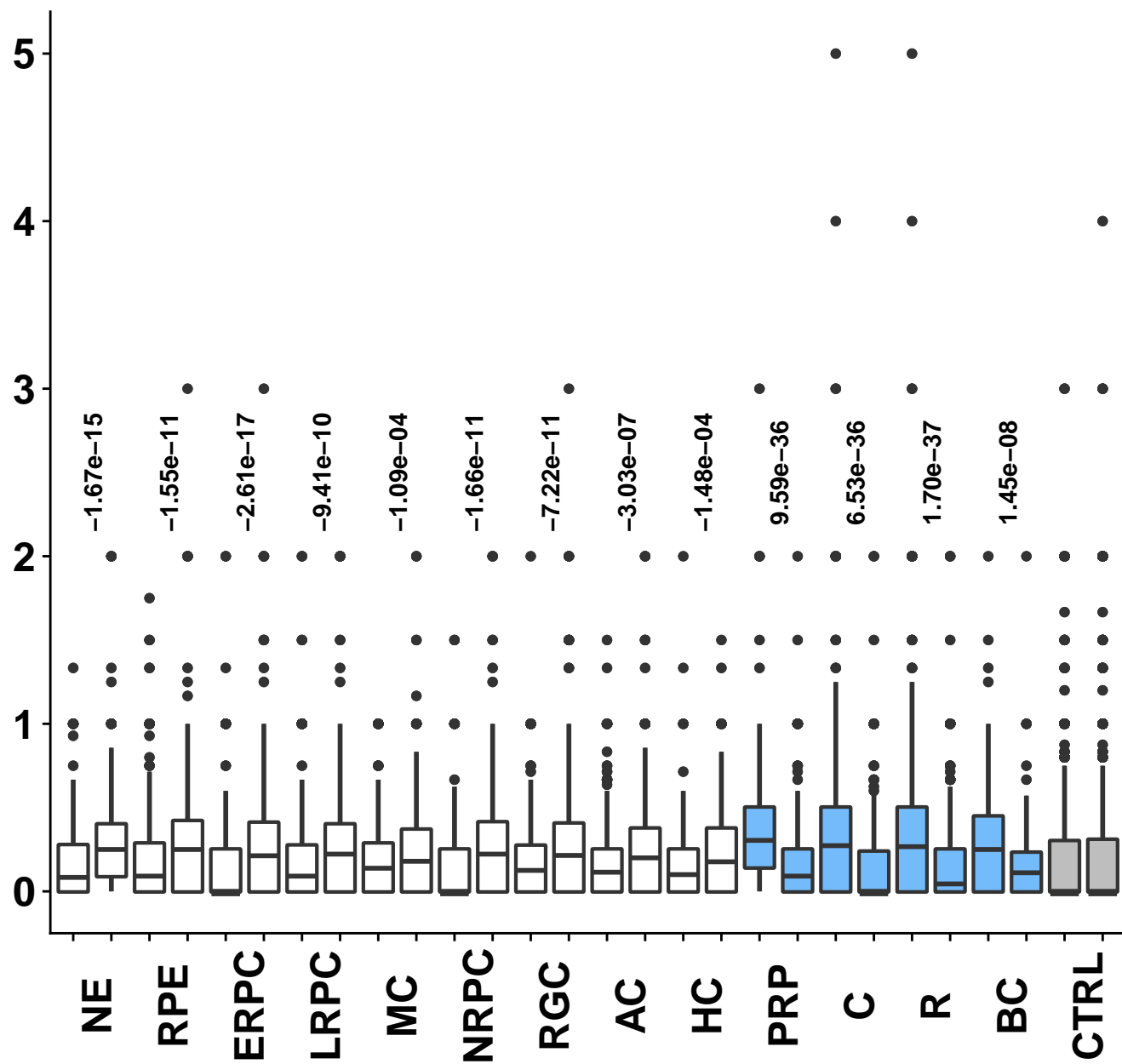
Atf4_2_mean



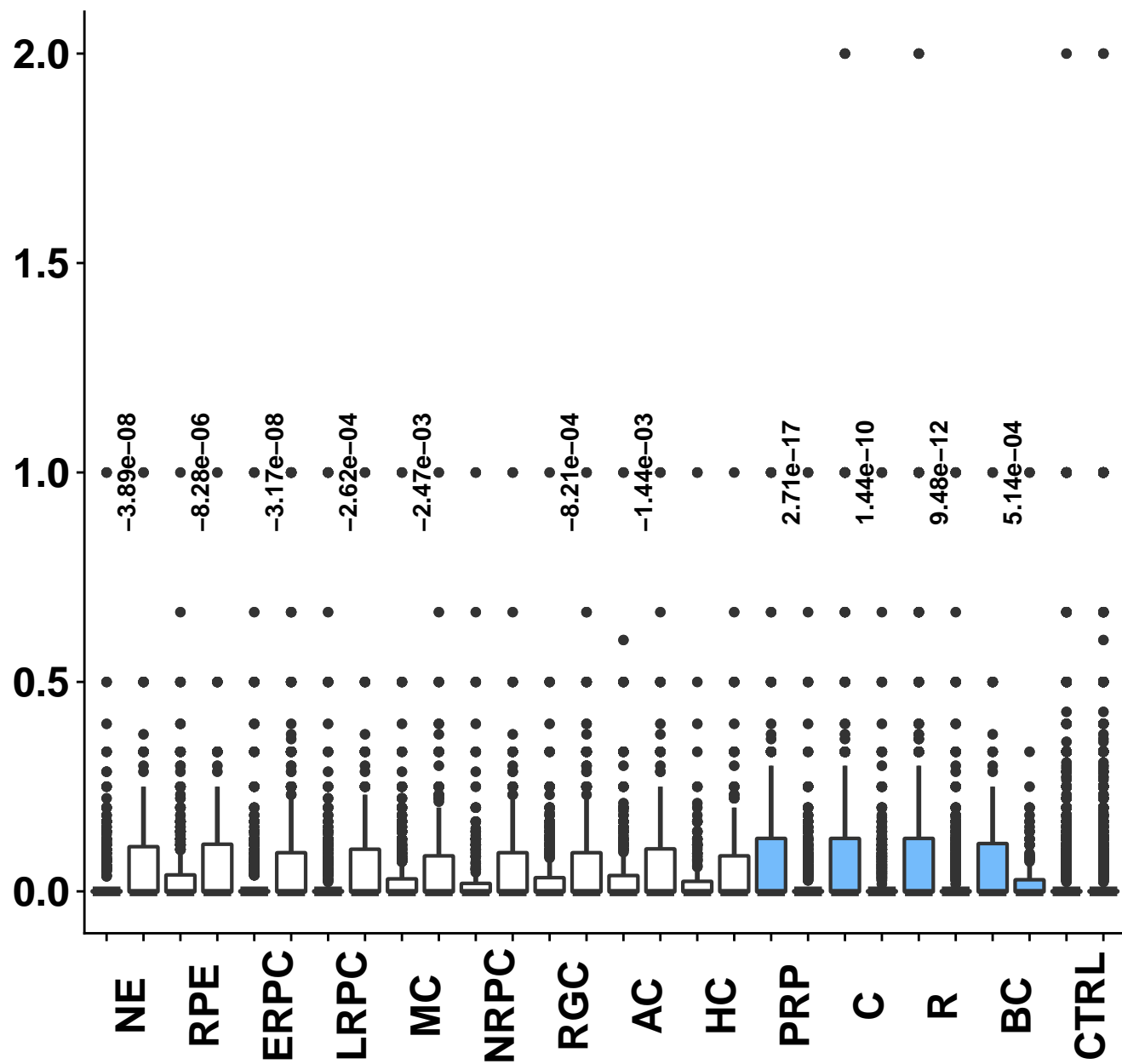
Crx_1_mean



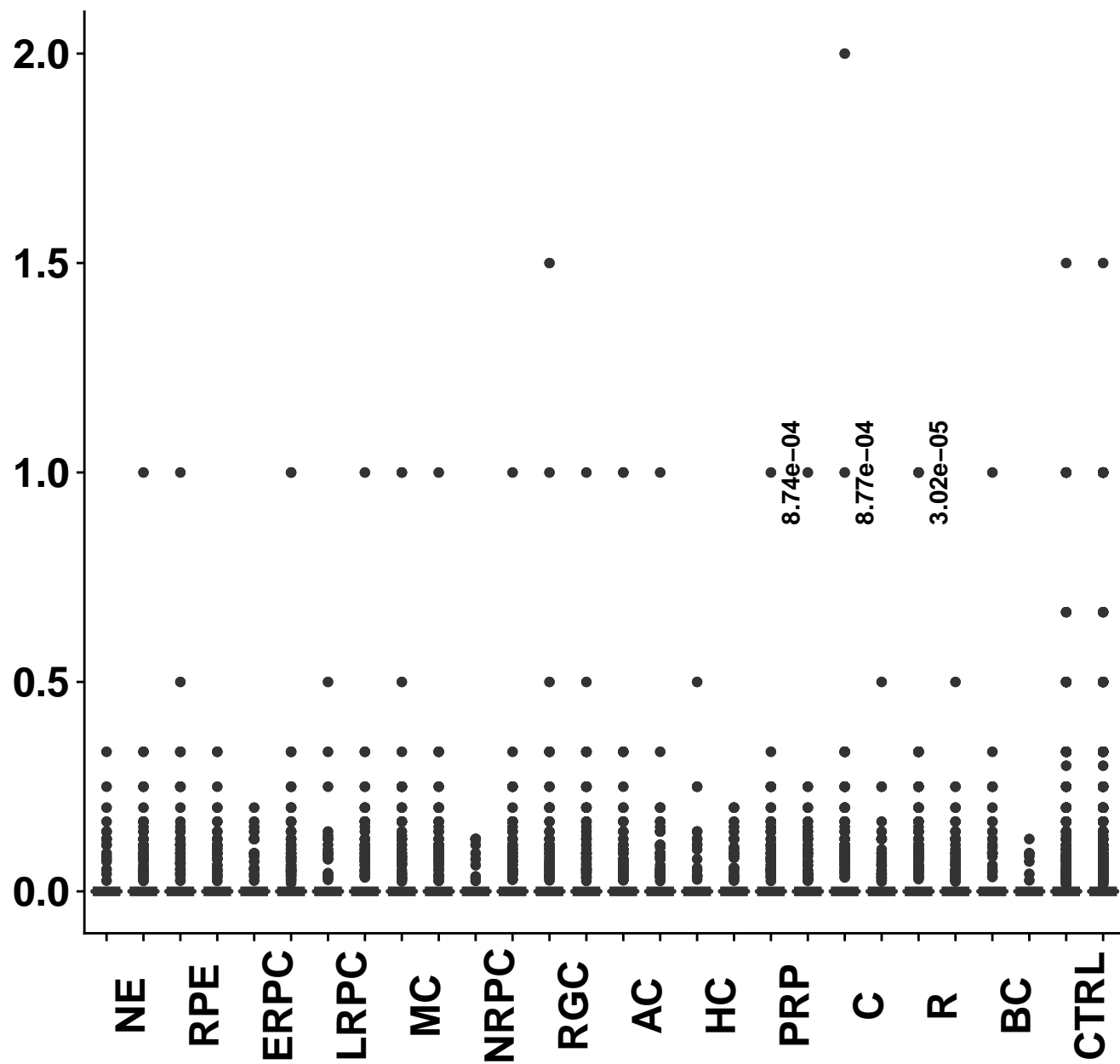
Crx_2_mean



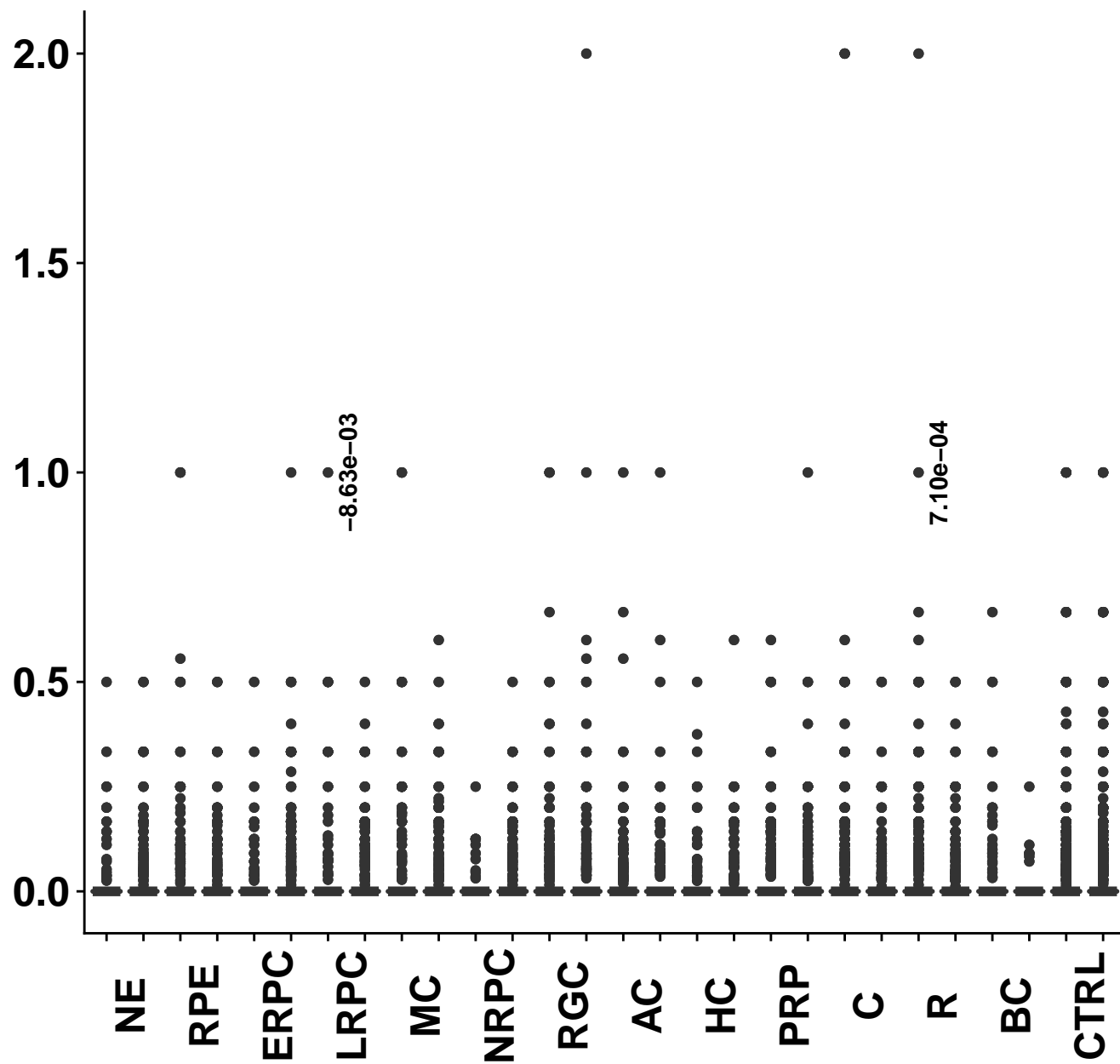
Crx_3_mean



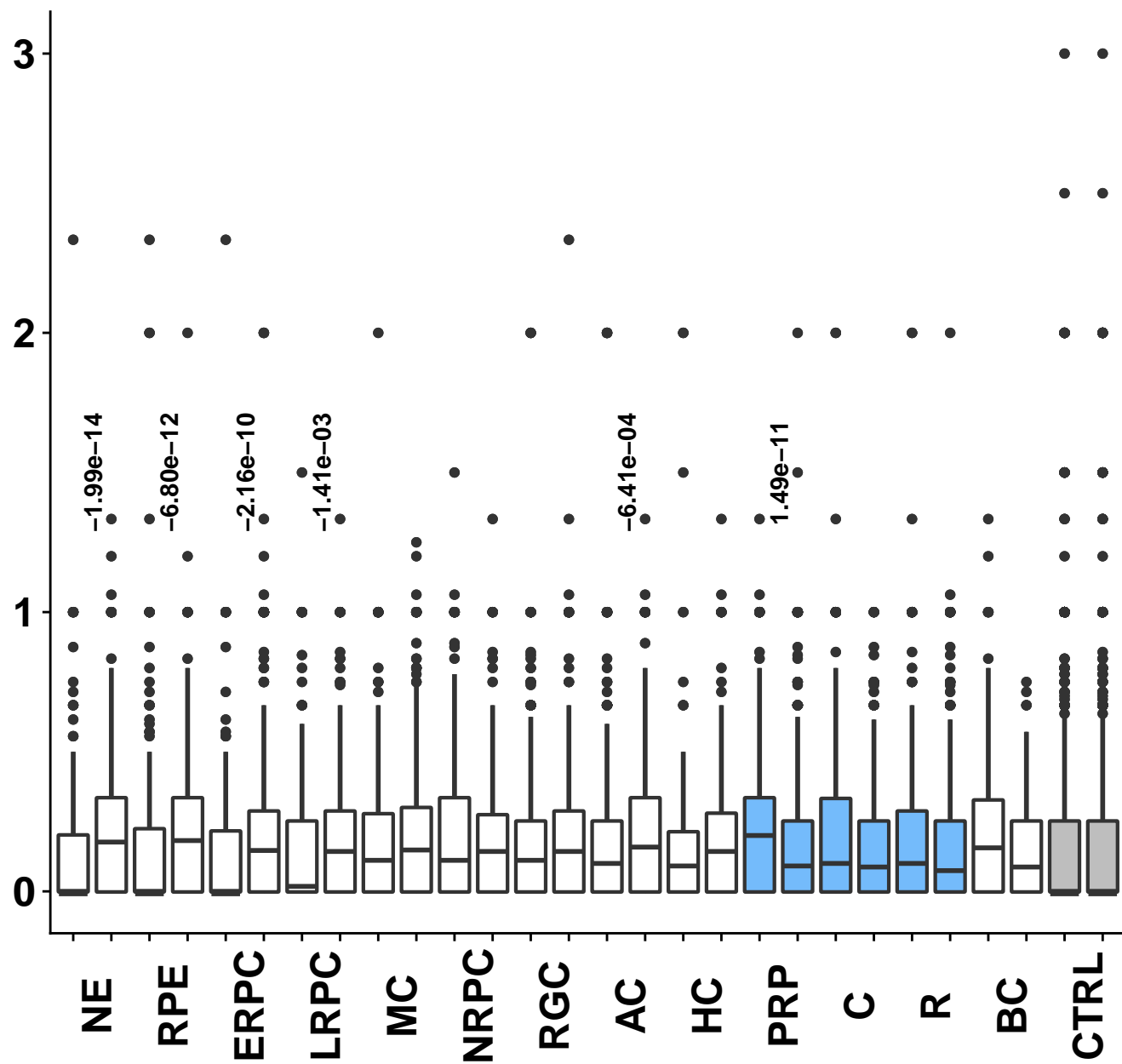
Mef2d_1_mean



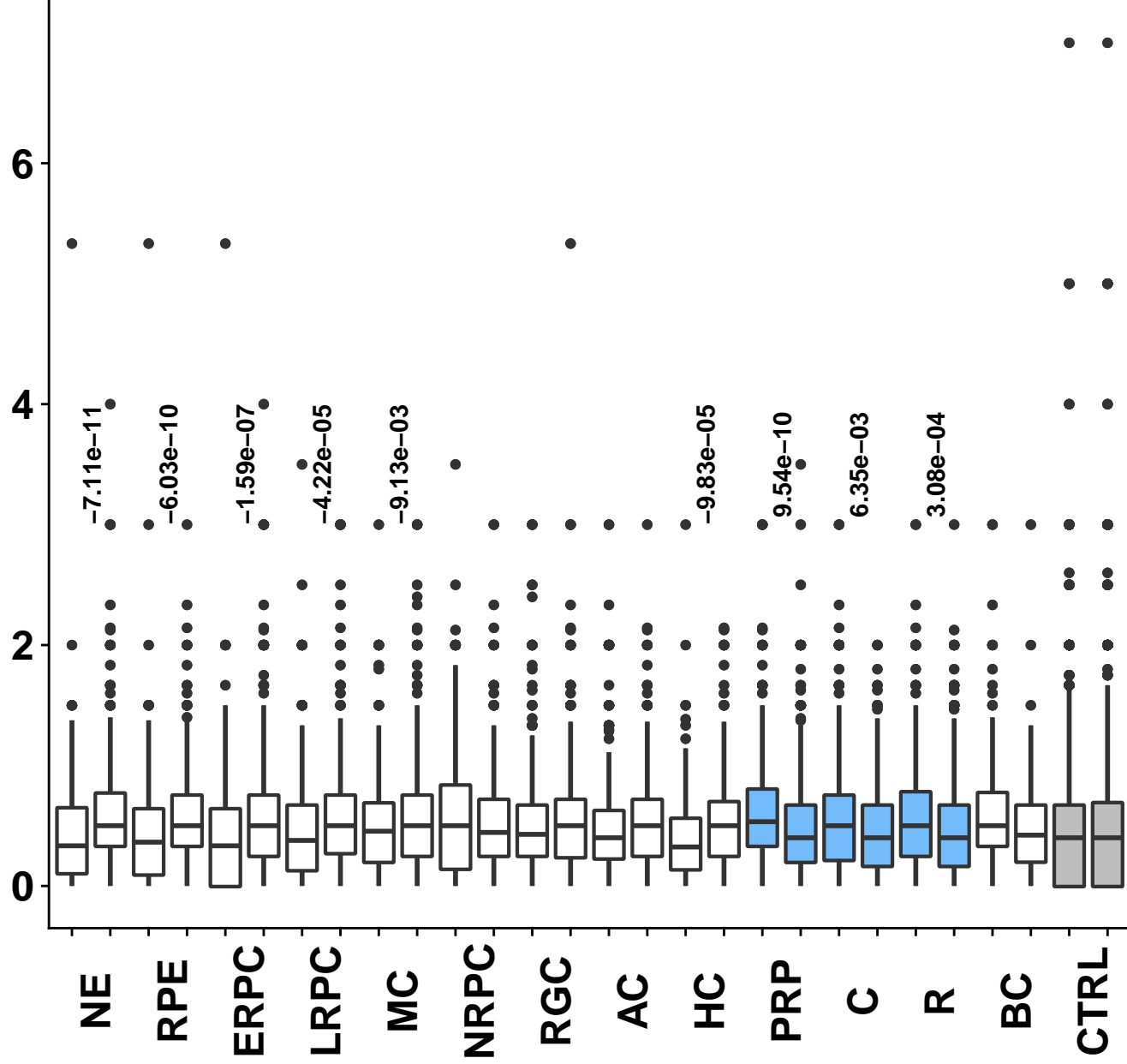
Mef2d_2_mean



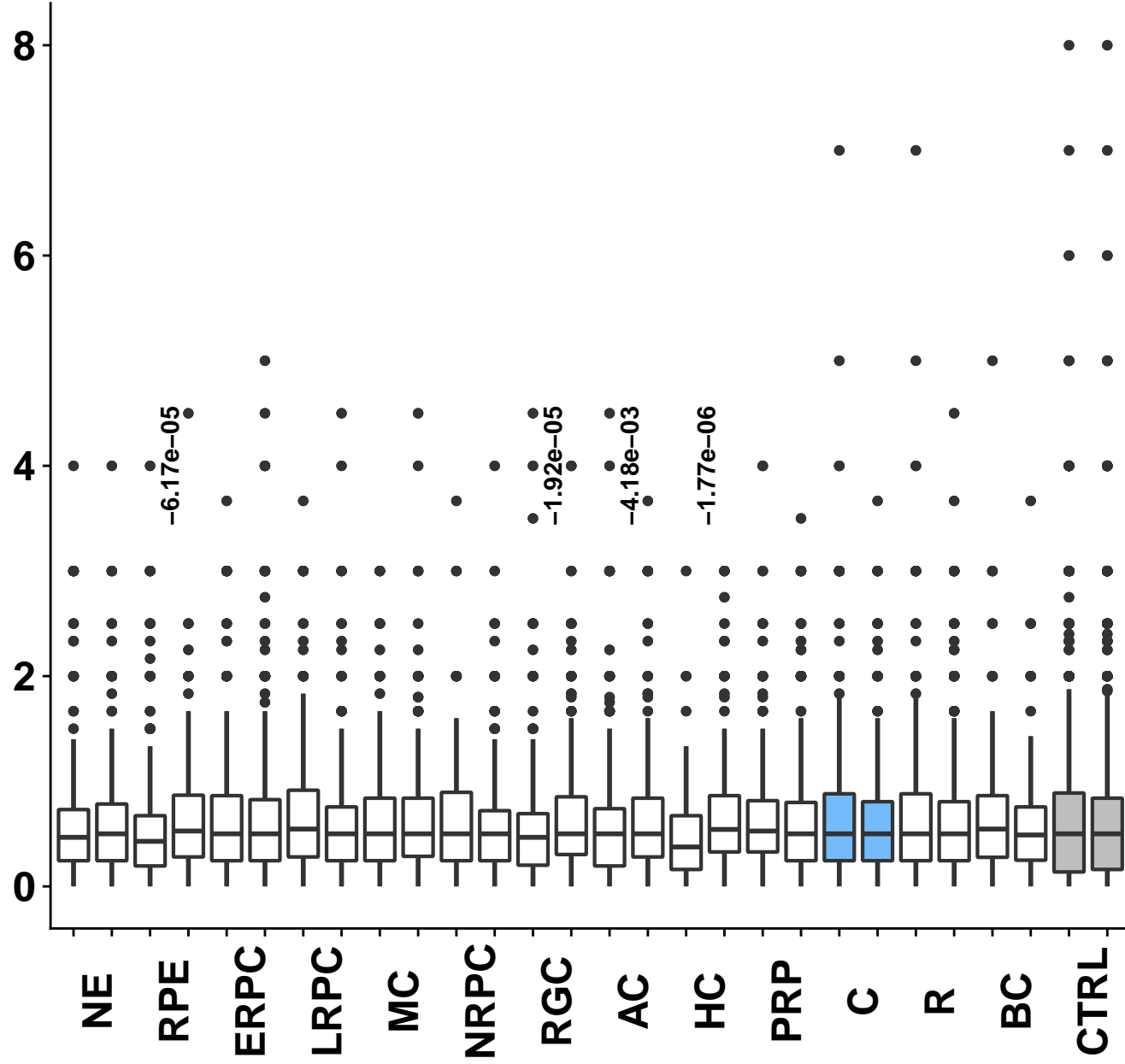
Neurod1_1_mean



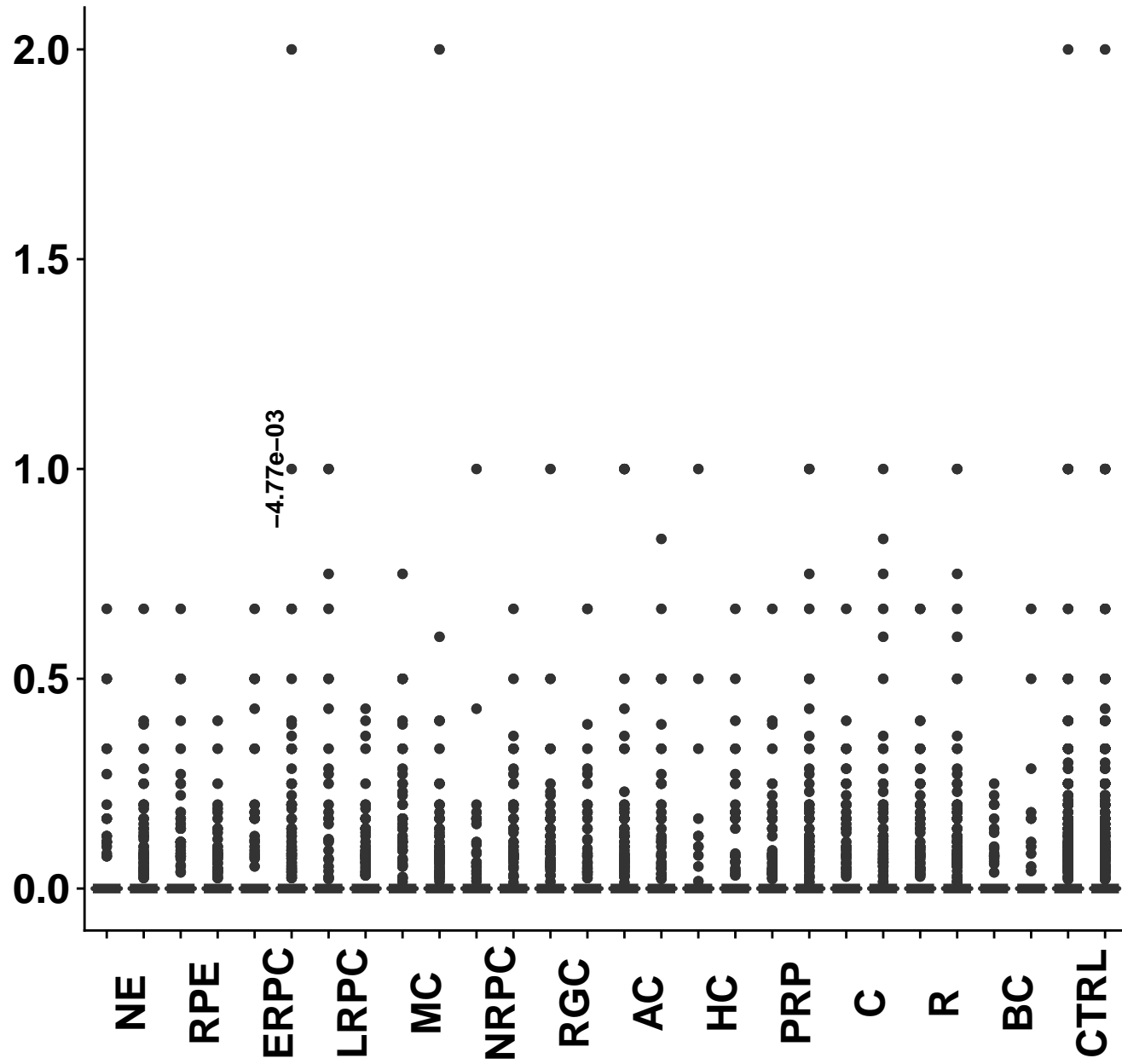
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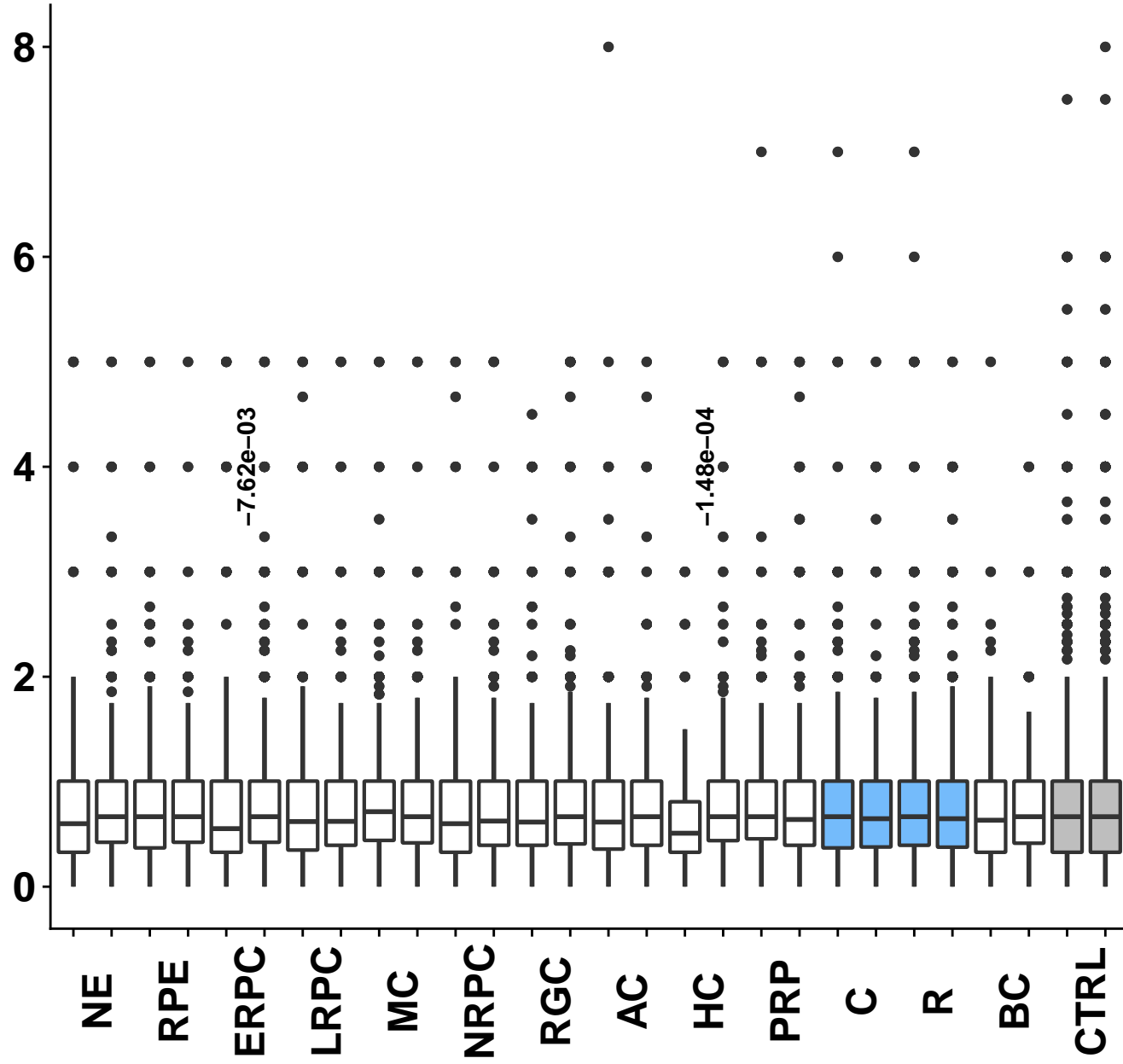
Nfat5_1_mean



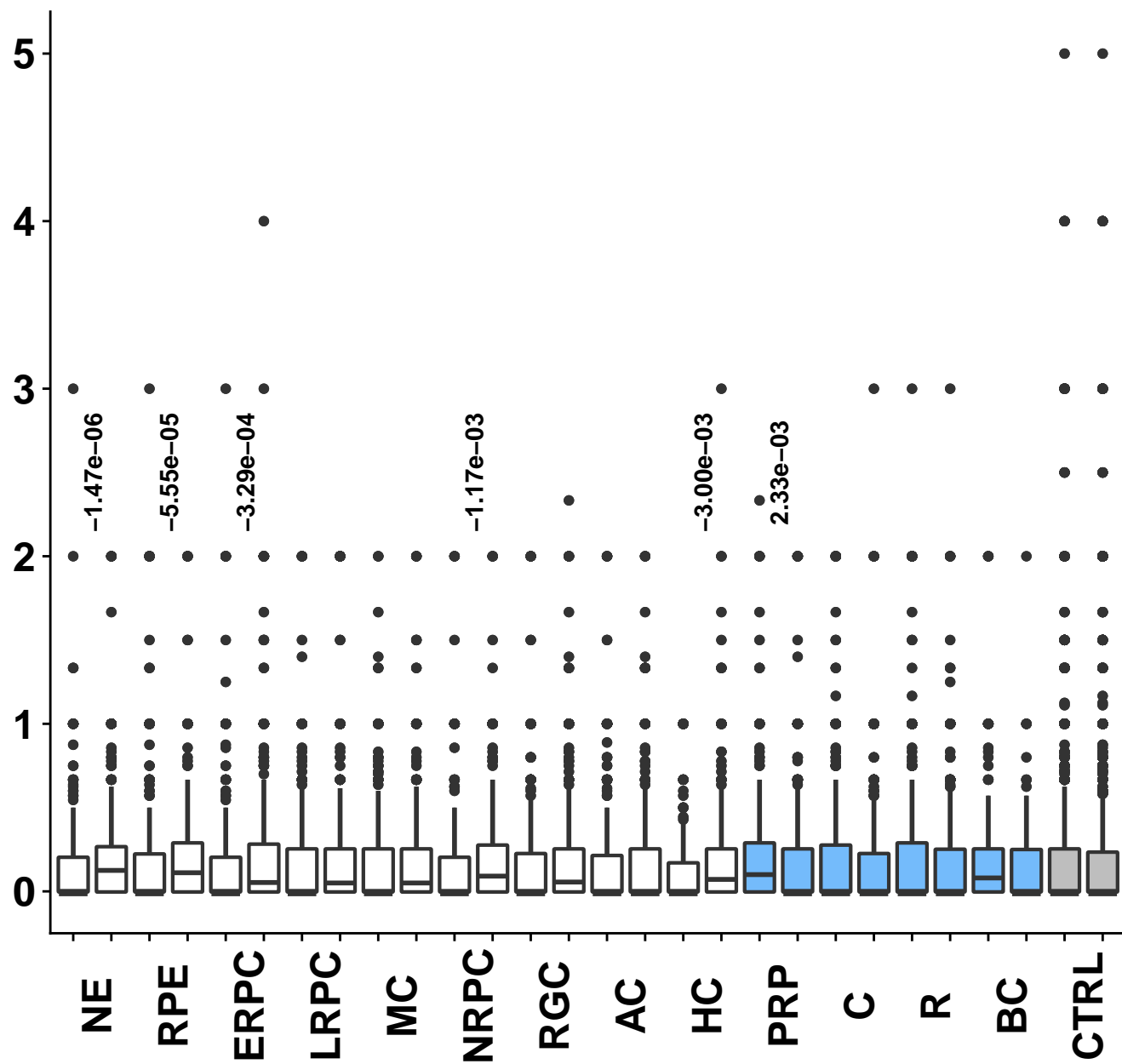
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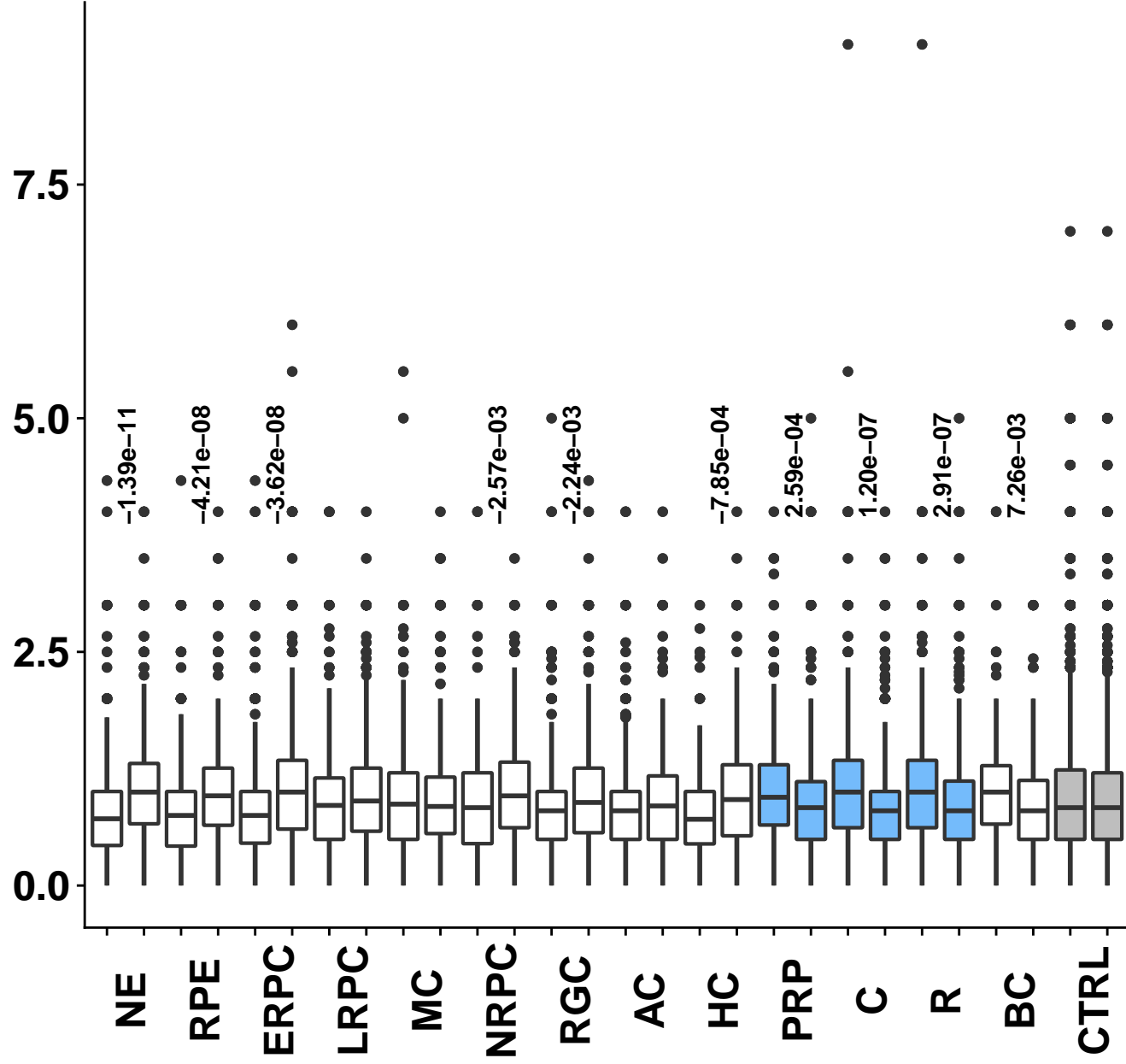
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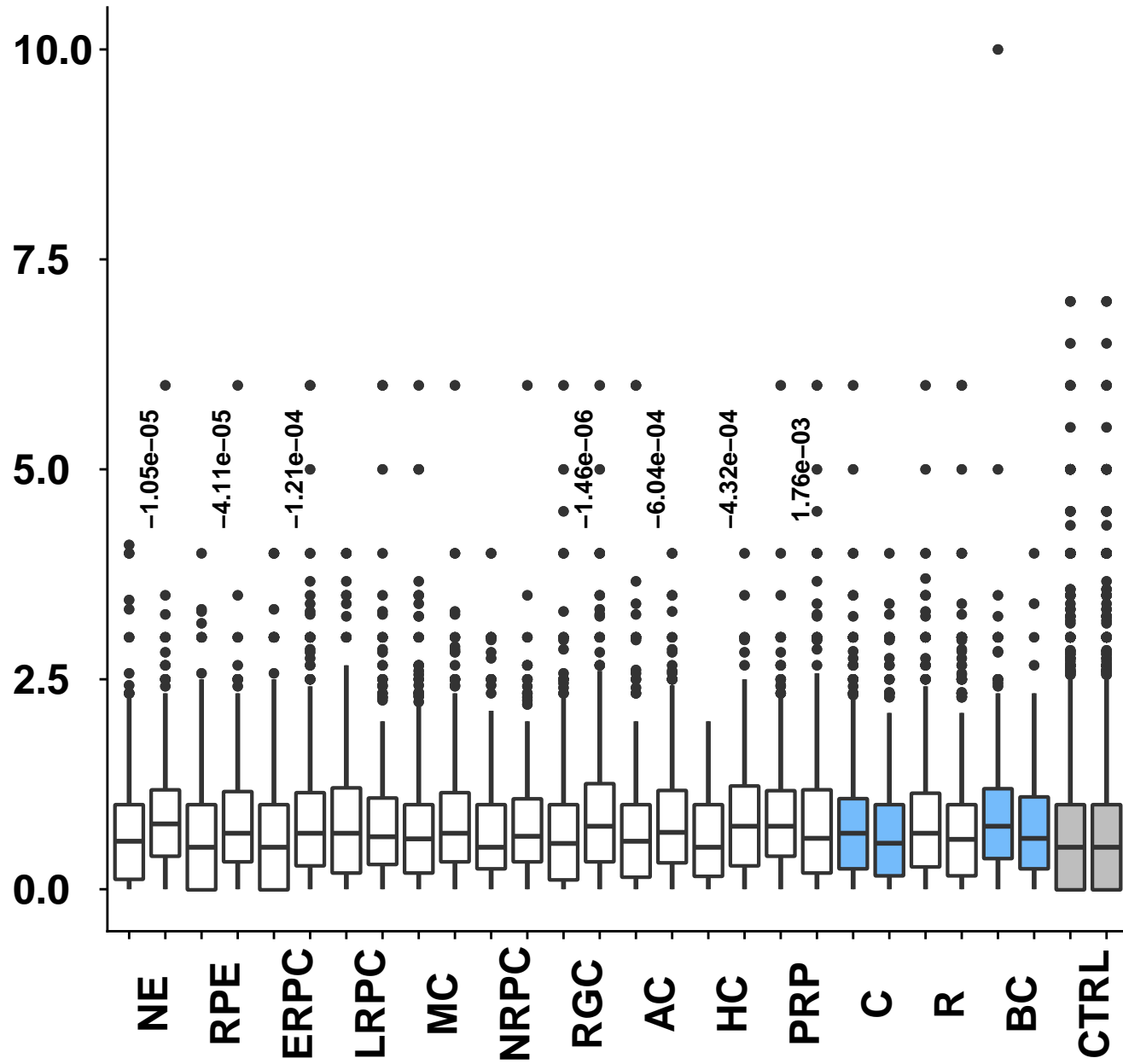
Nr2e3_1_mean



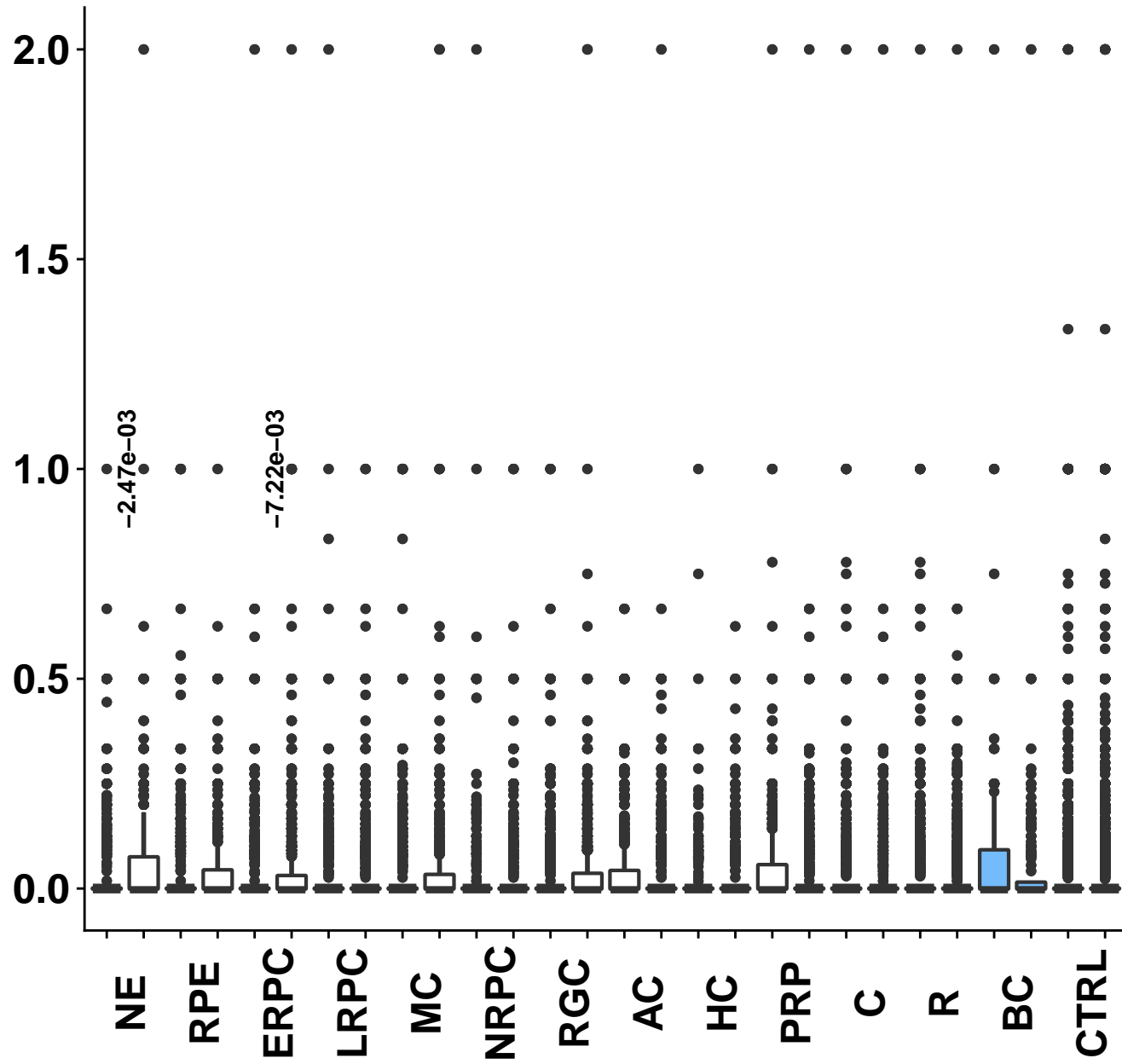
Nrl_1_mean



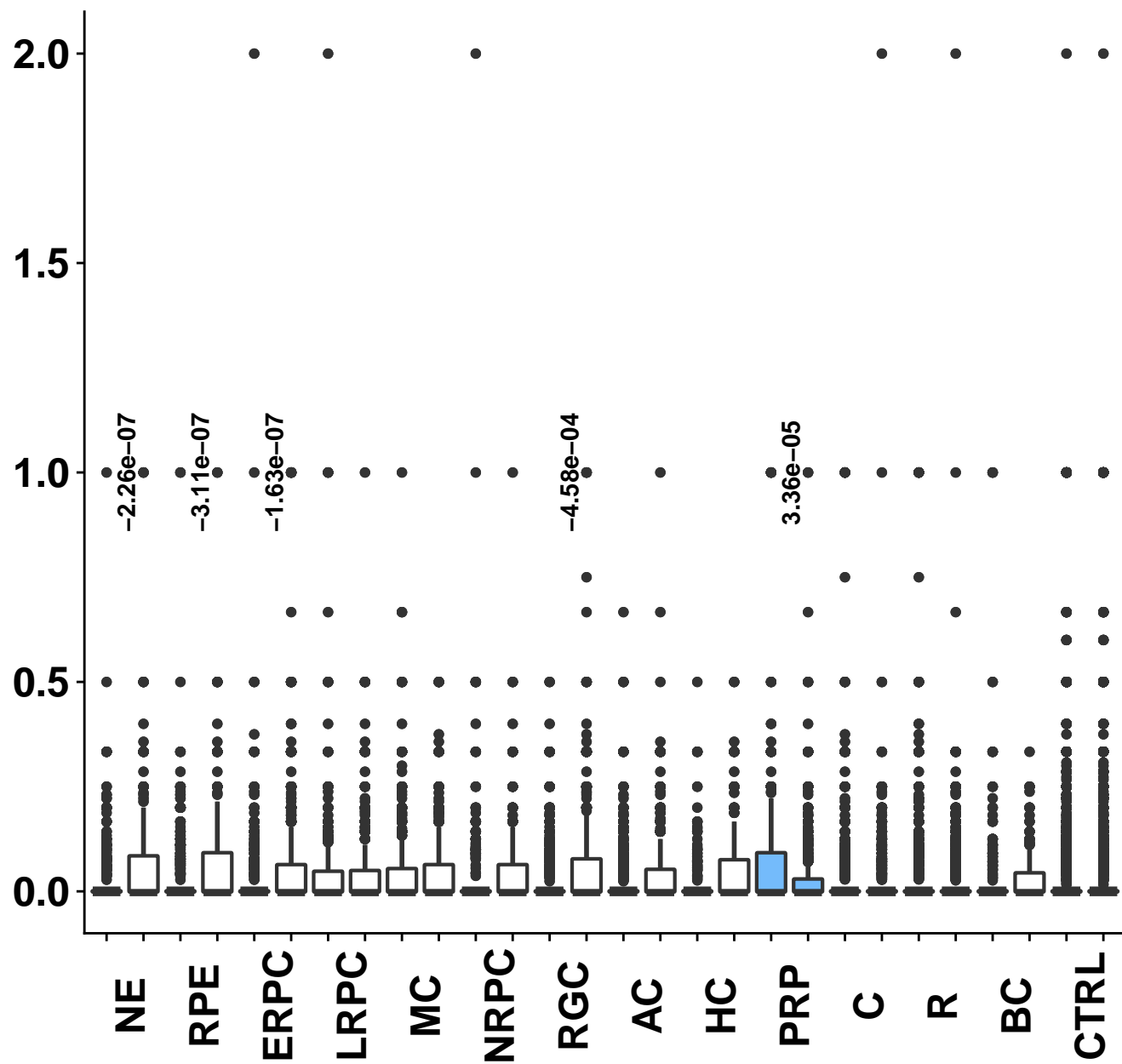
Lhx4_1_mean



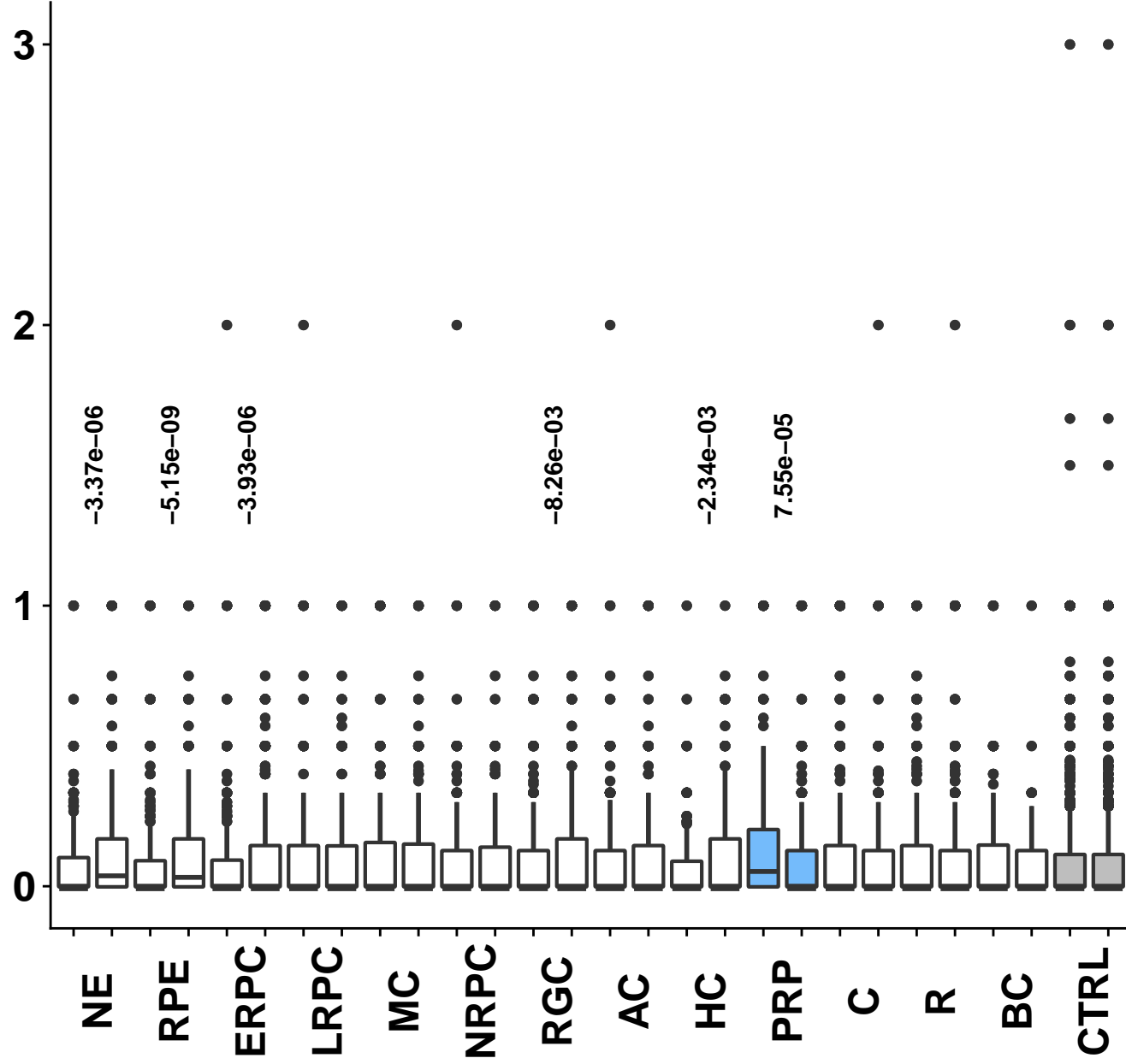
Lhx4_2_mean



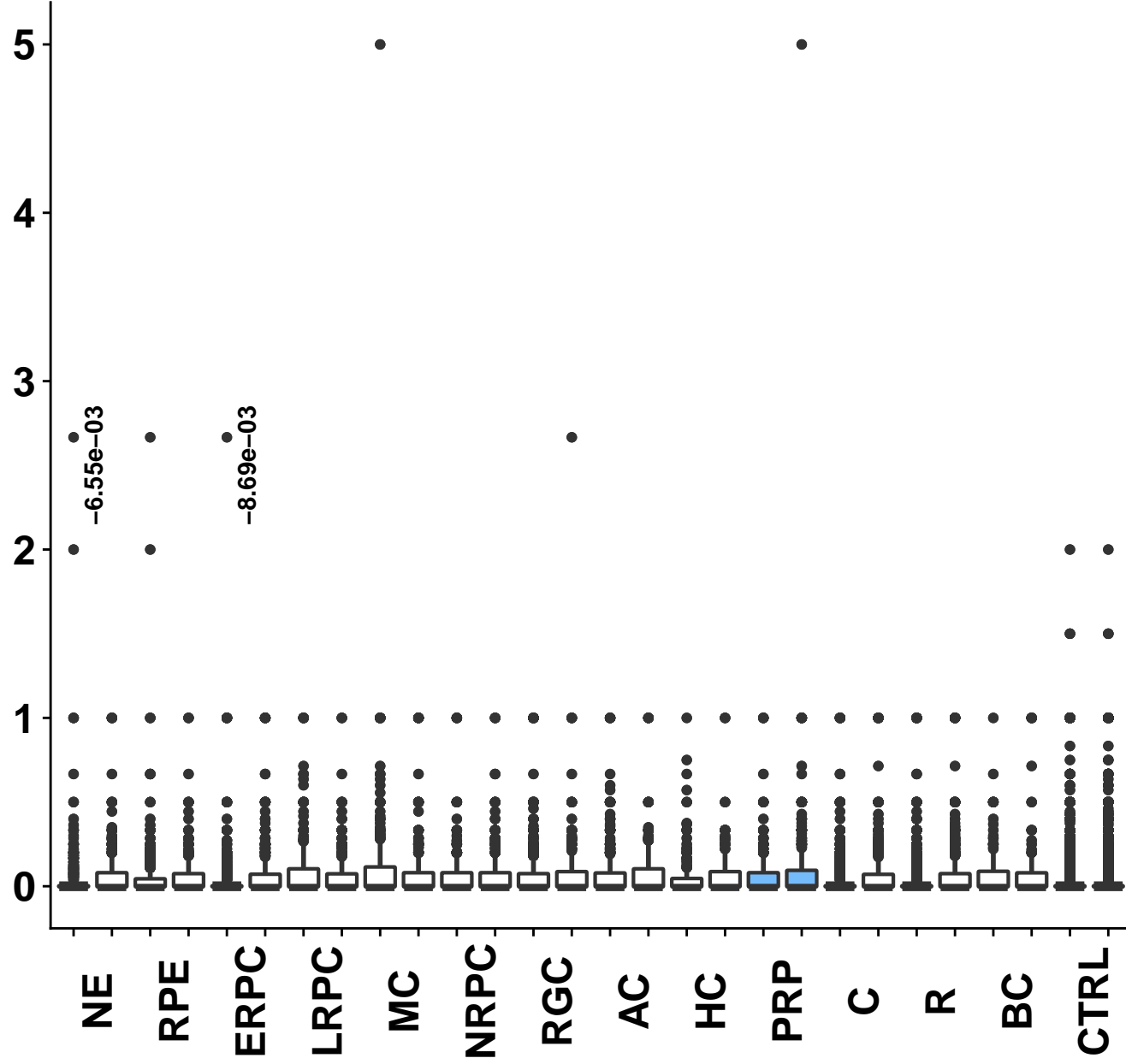
Foxo3_1_mean



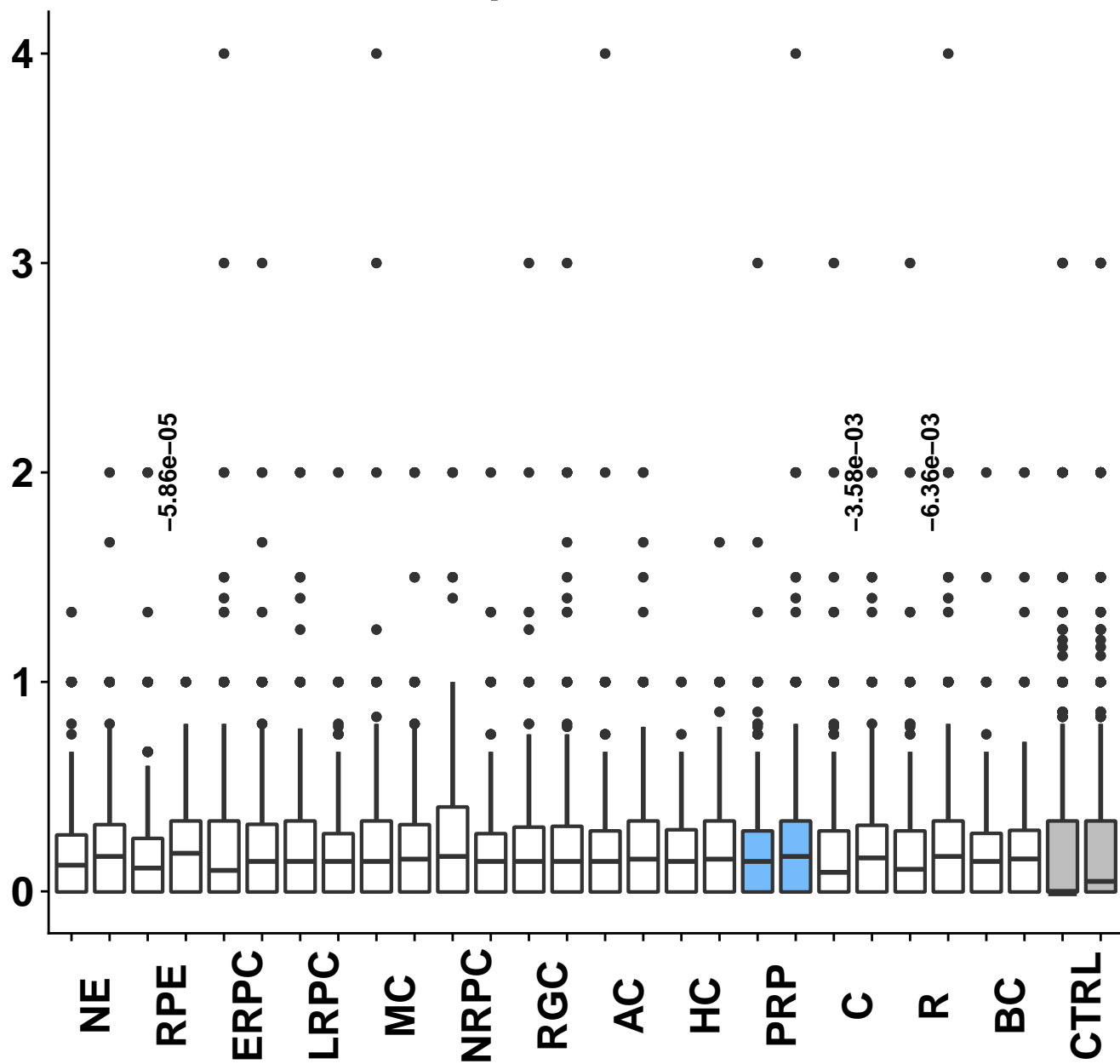
Foxo3_2_mean



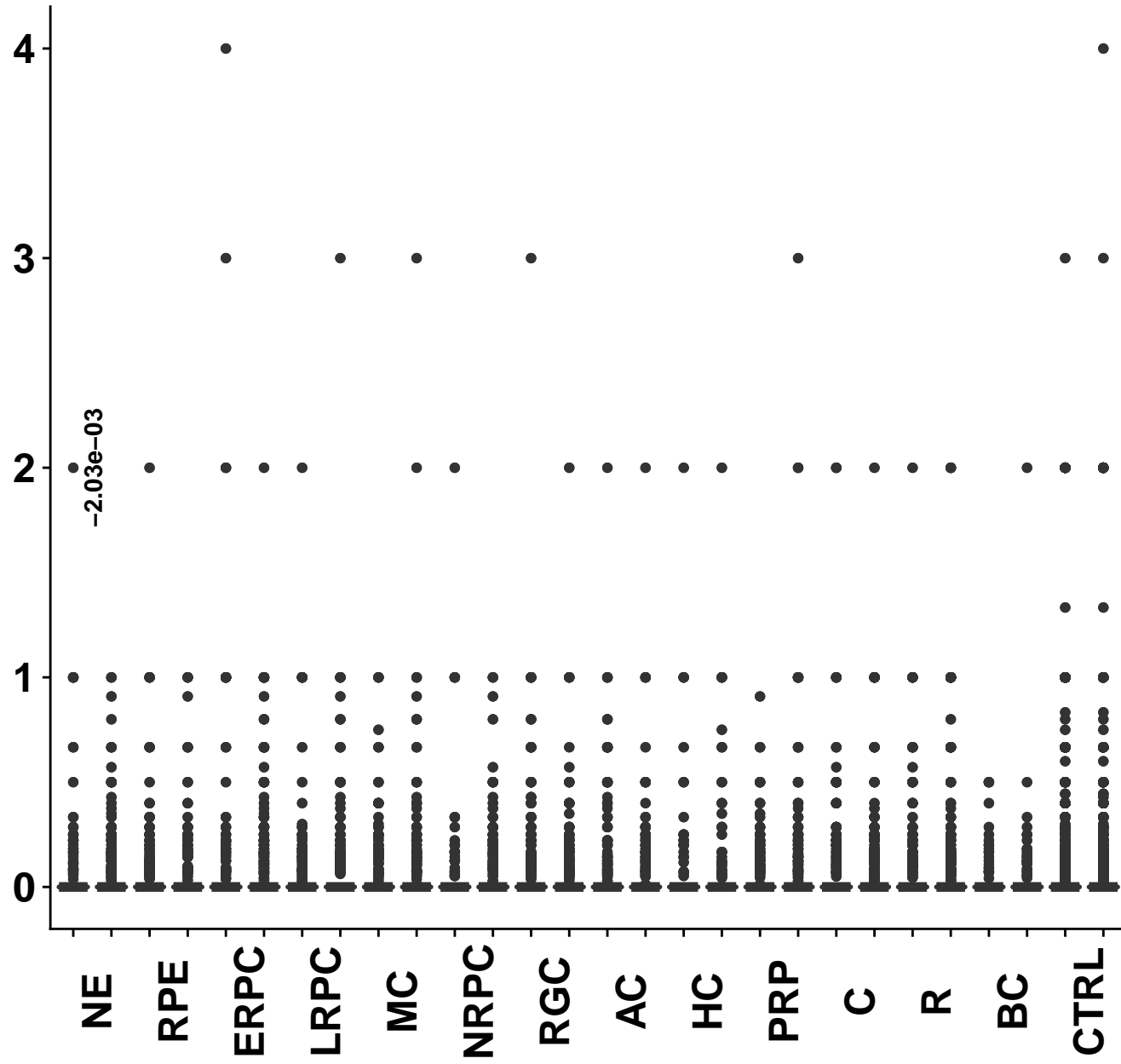
Hbp1_1_mean



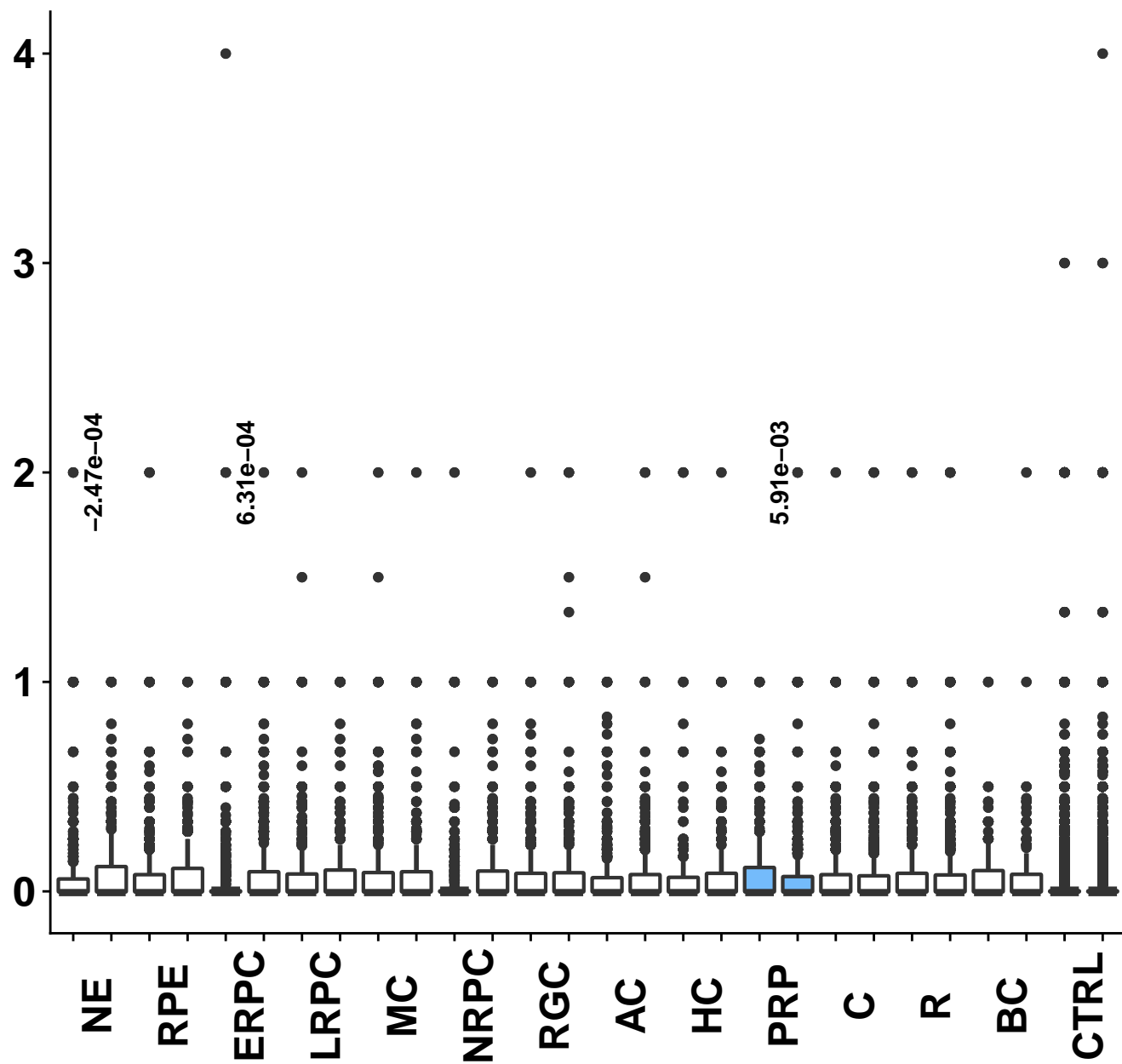
Hbp1_2_mean



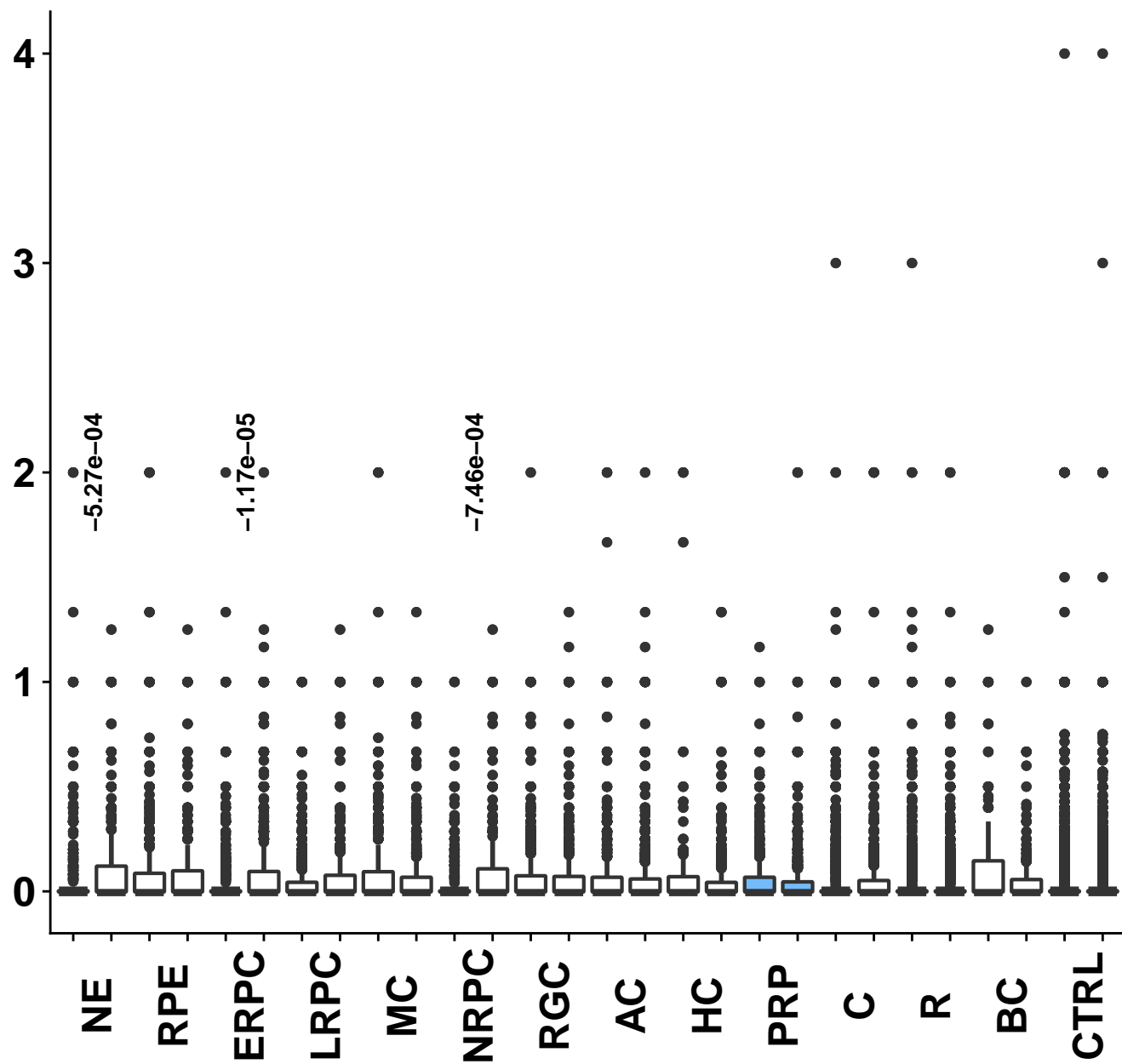
Jund_1_mean



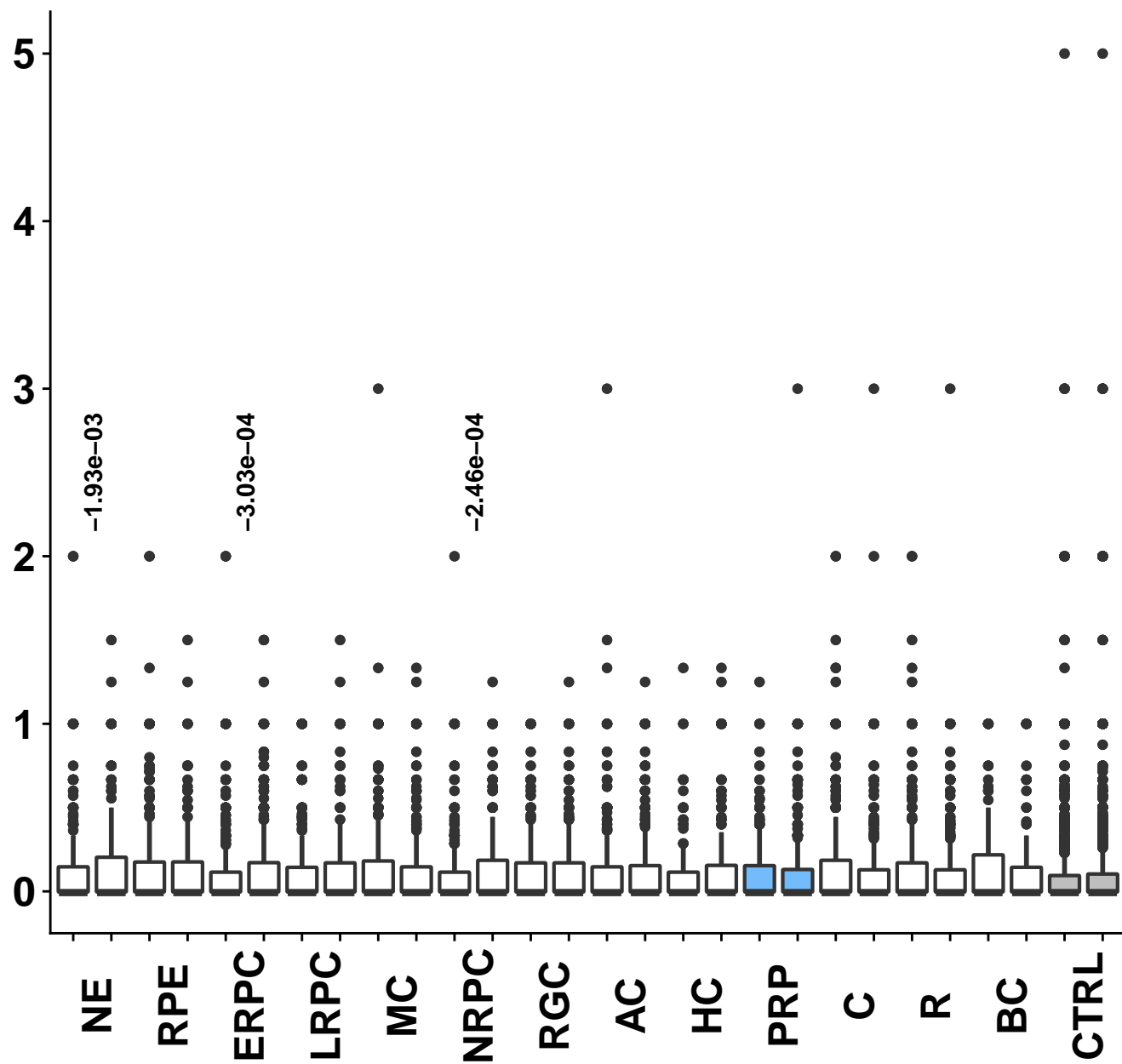
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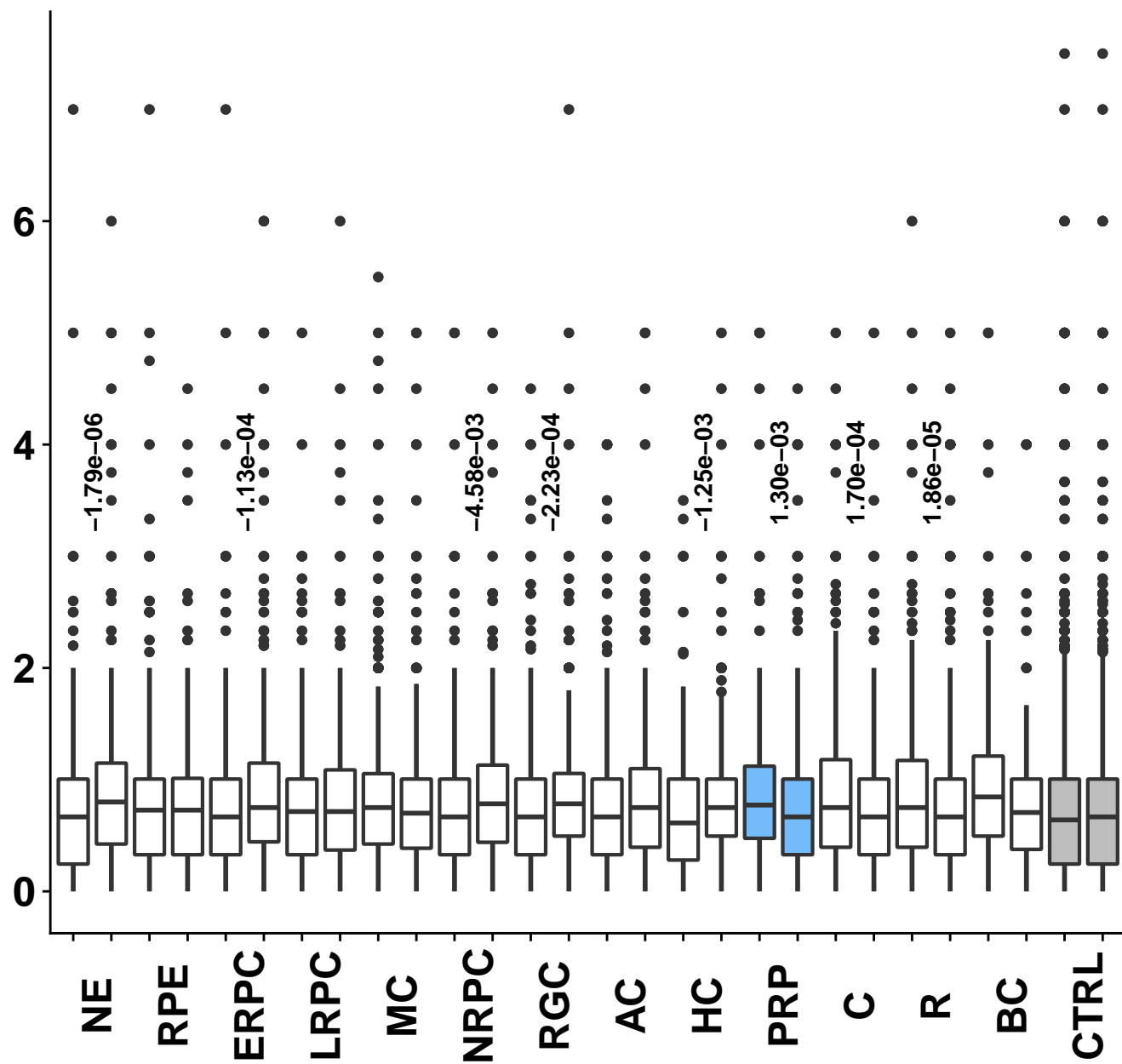
Jund_3_mean



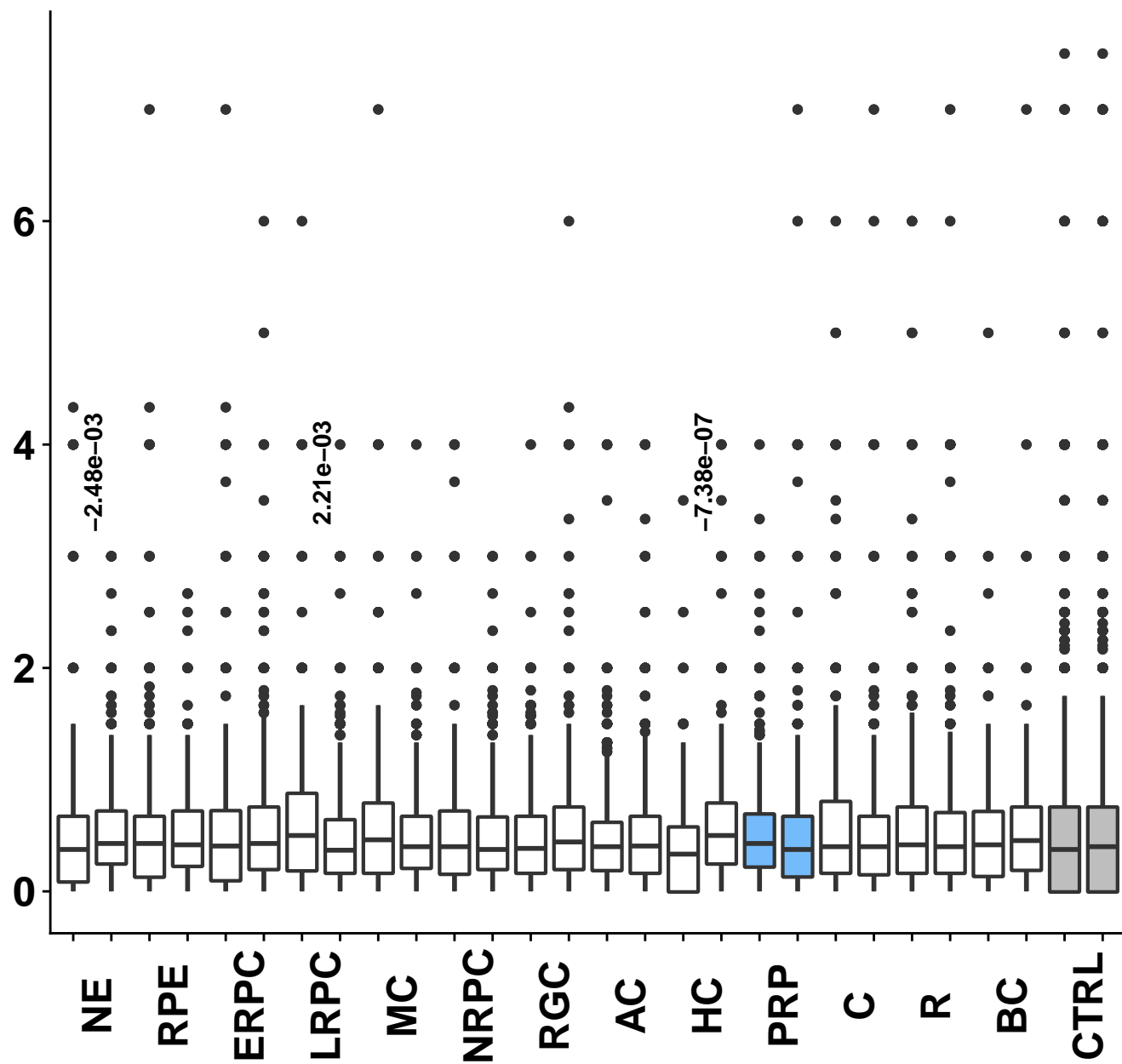
Jund_4_mean



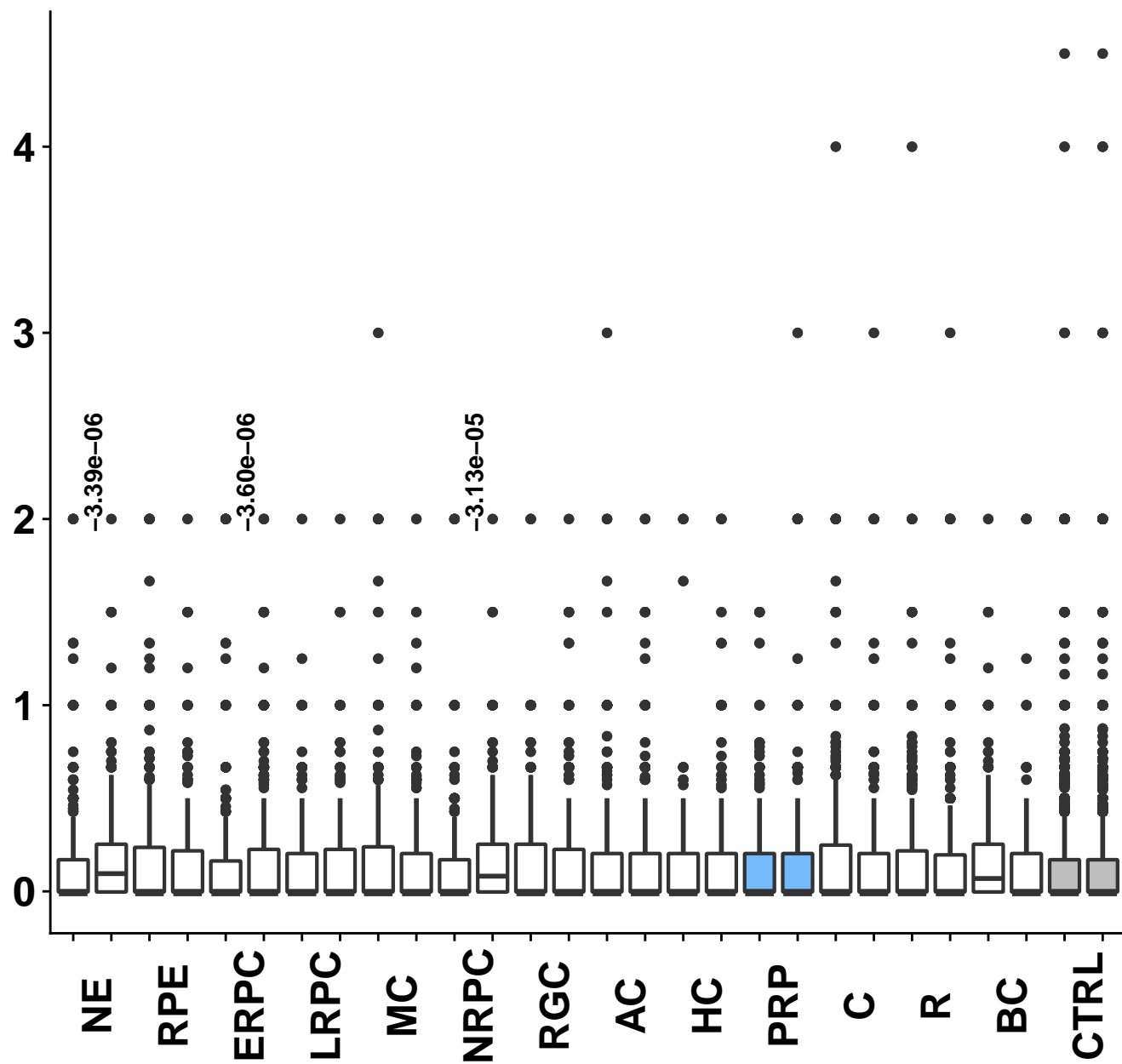
Jun_d_5_mean



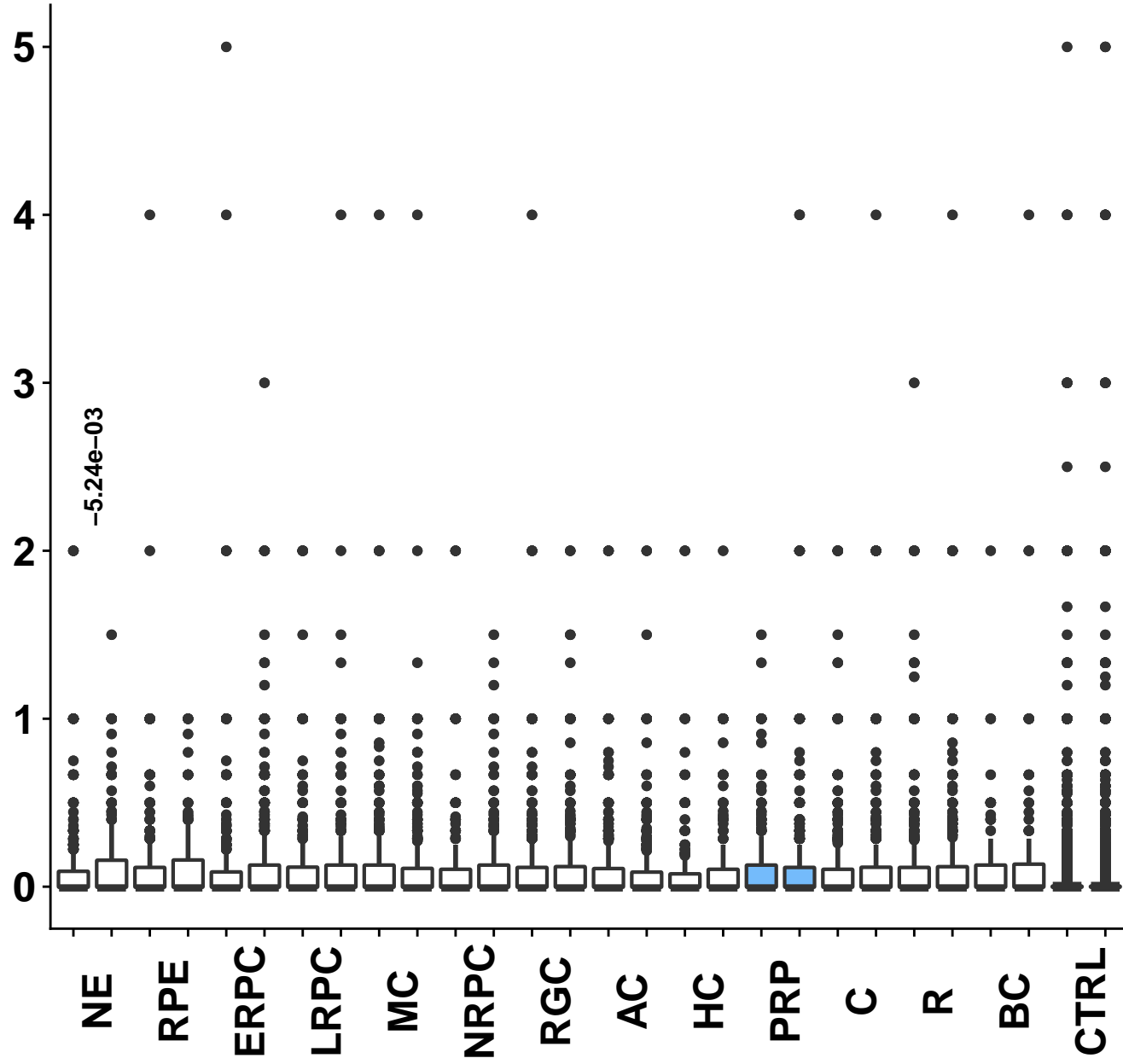
Jund_6_mean



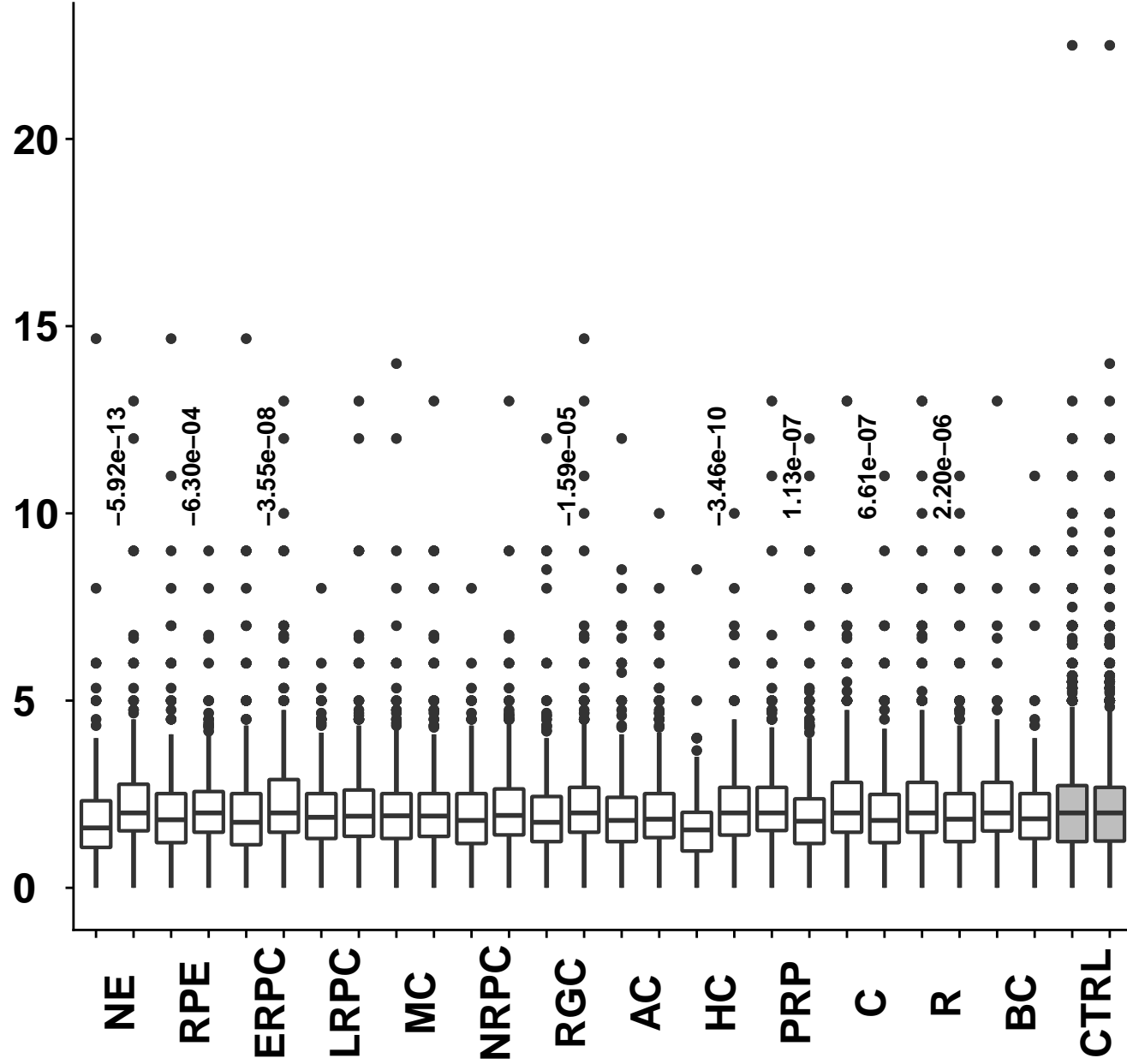
Jund_7_mean



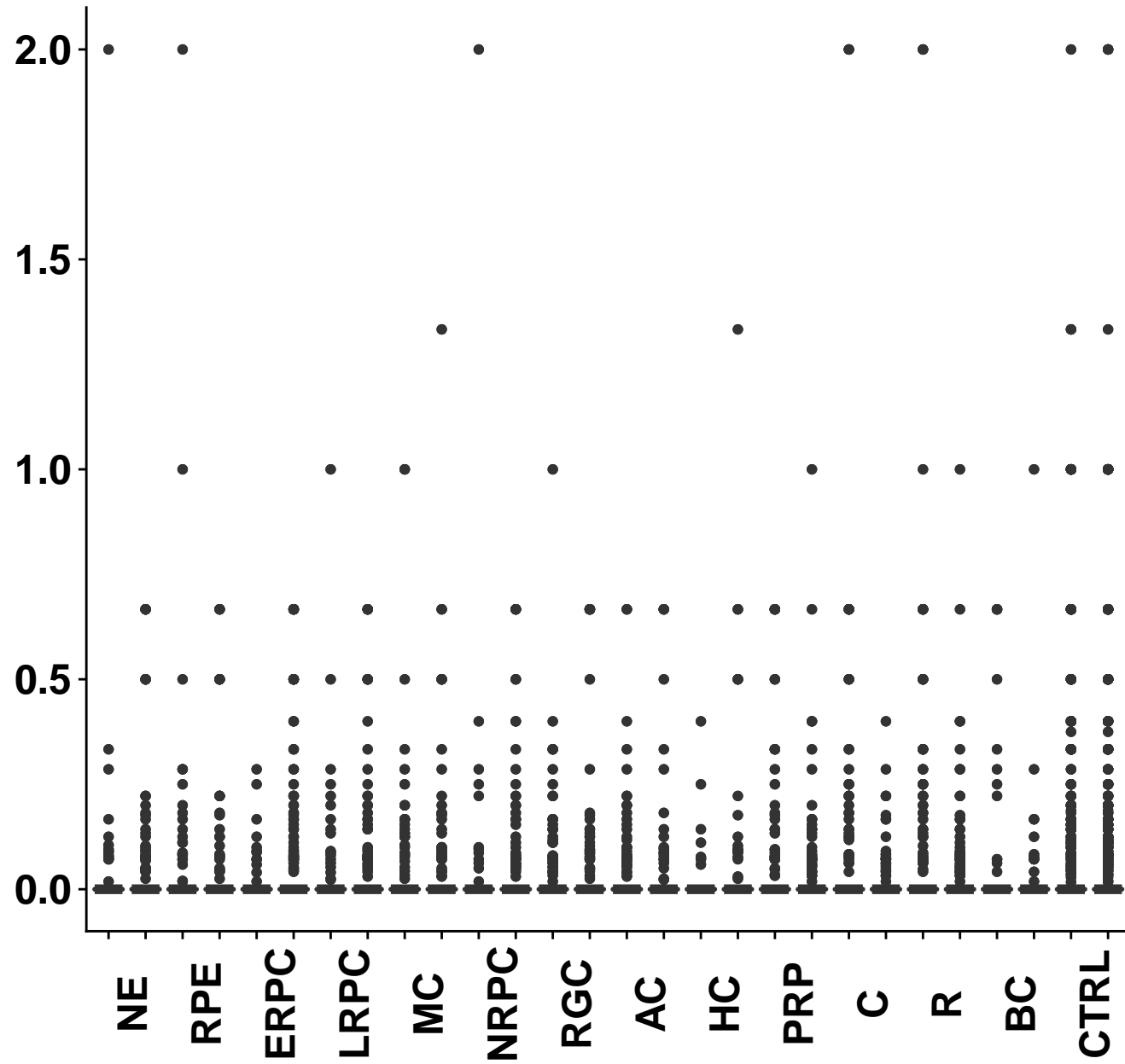
Jund_8_mean



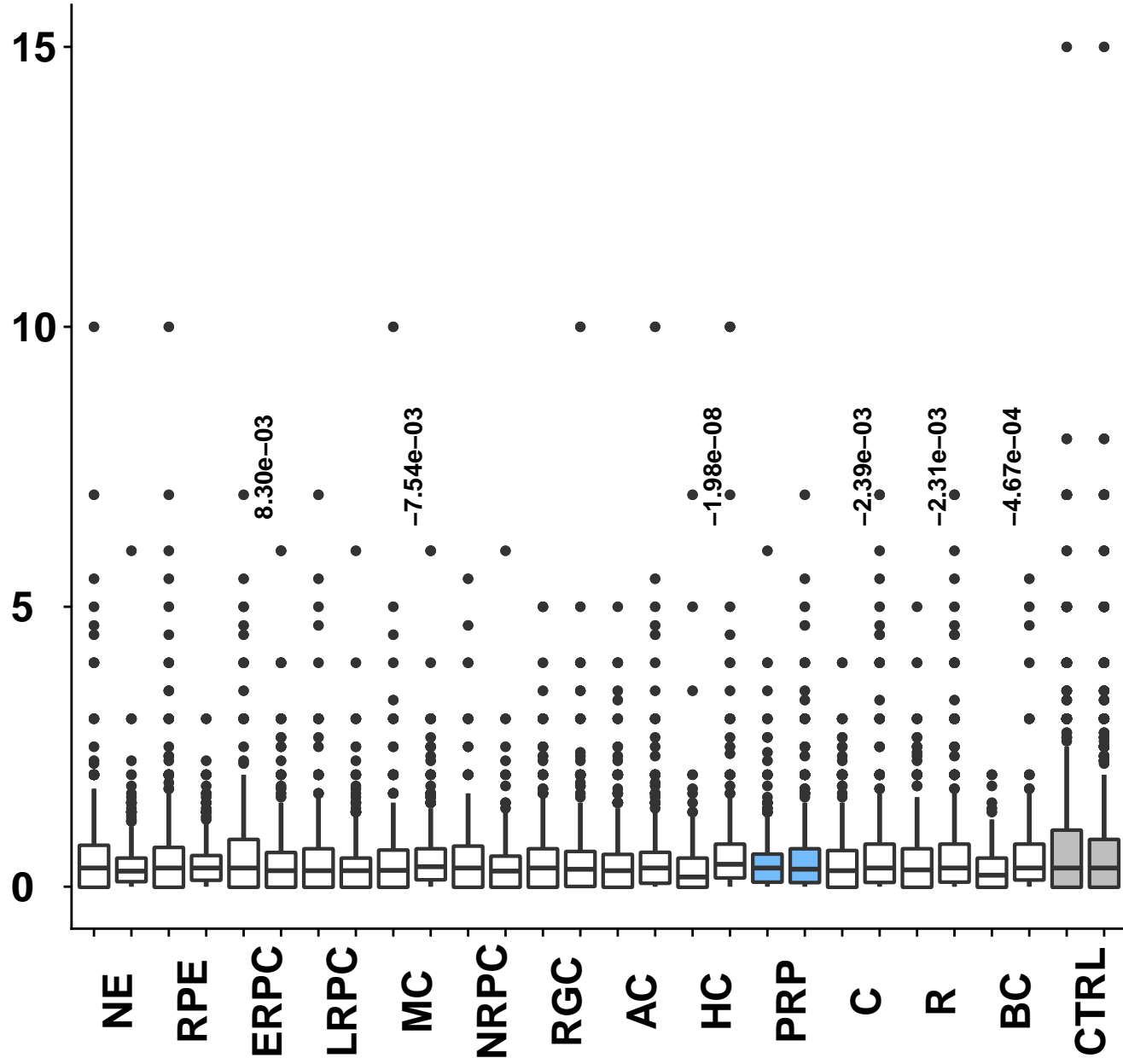
Mafg_1_mean



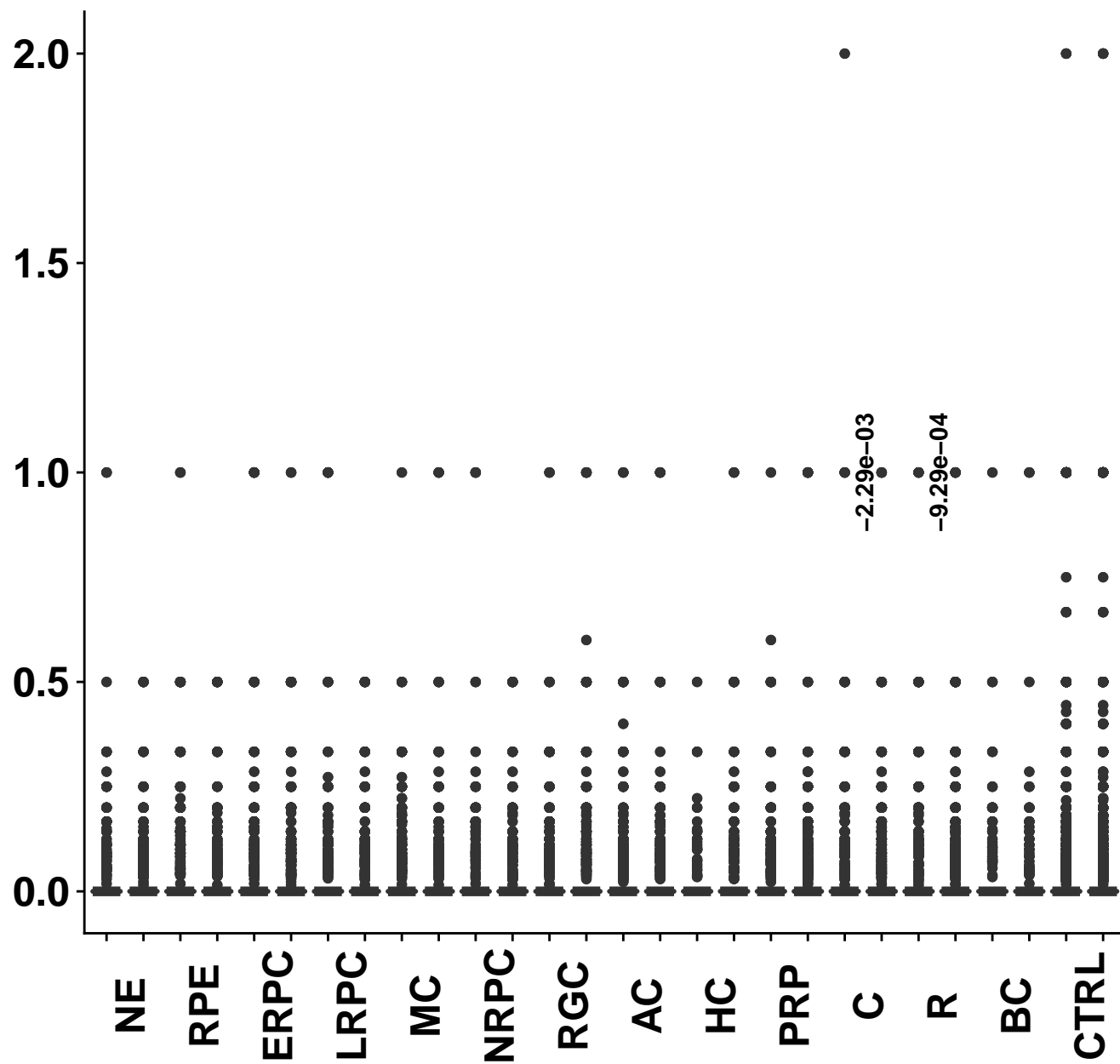
Mafg_2_mean



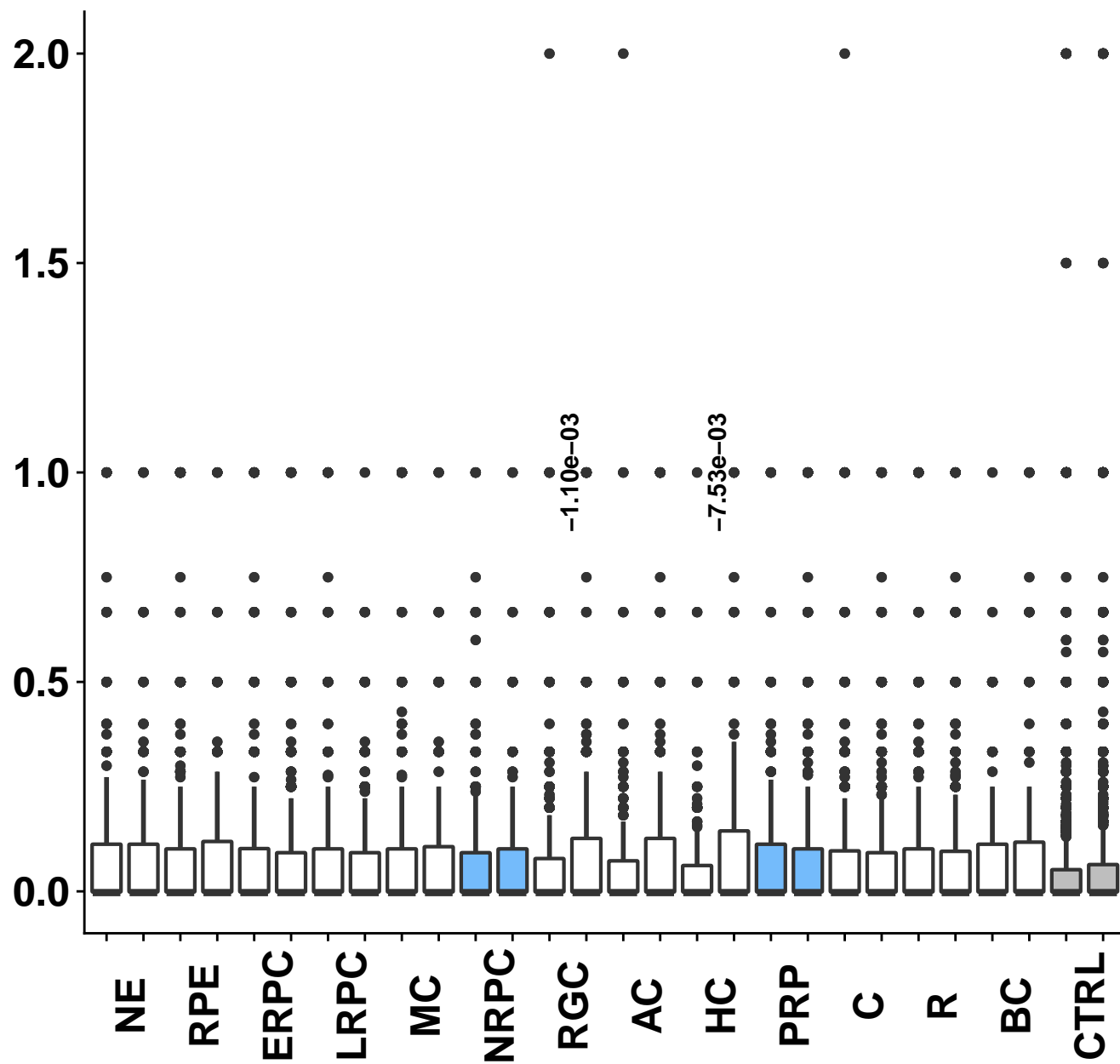
Mxi1_1_mean



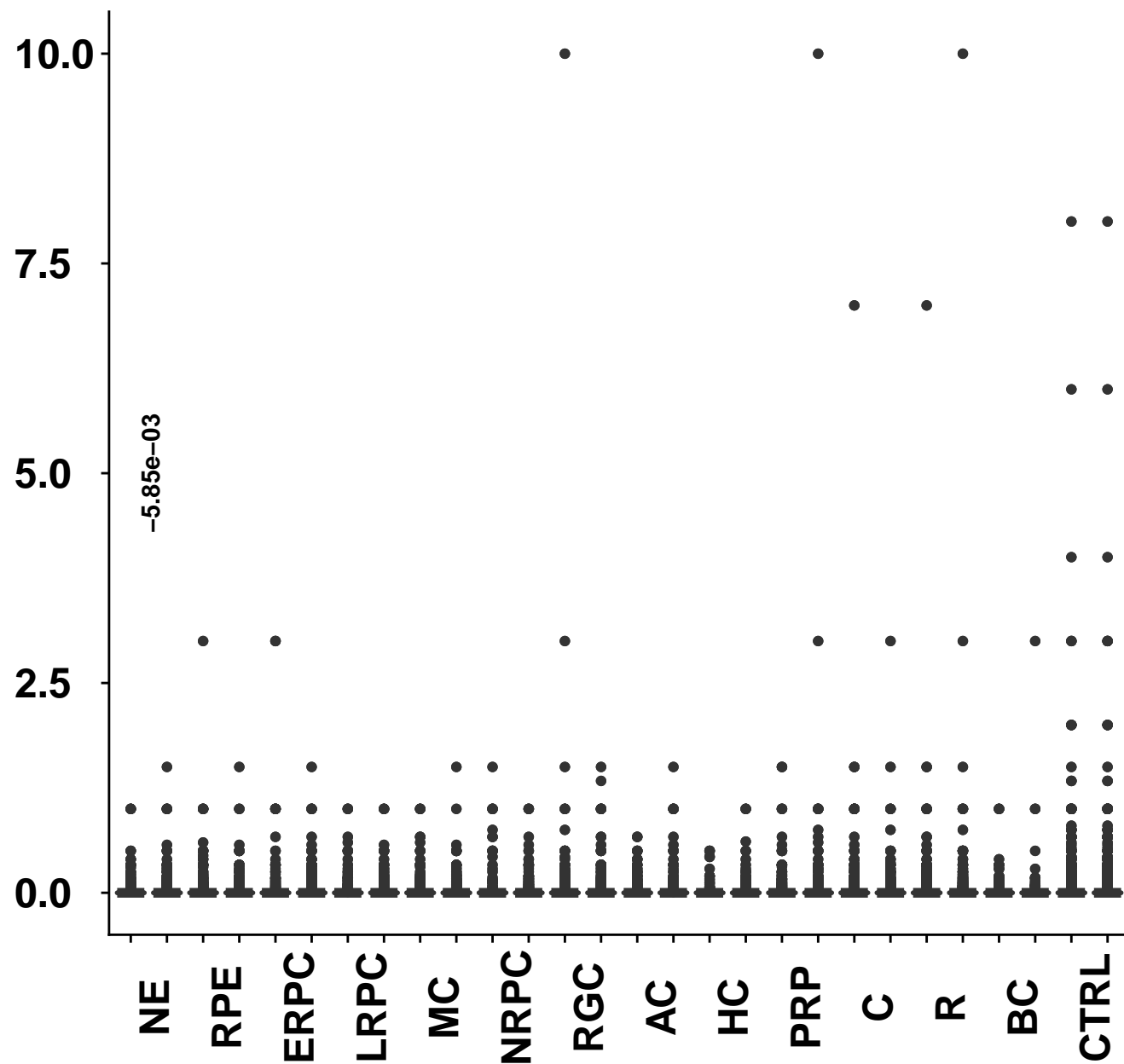
Prdm1_4_mean



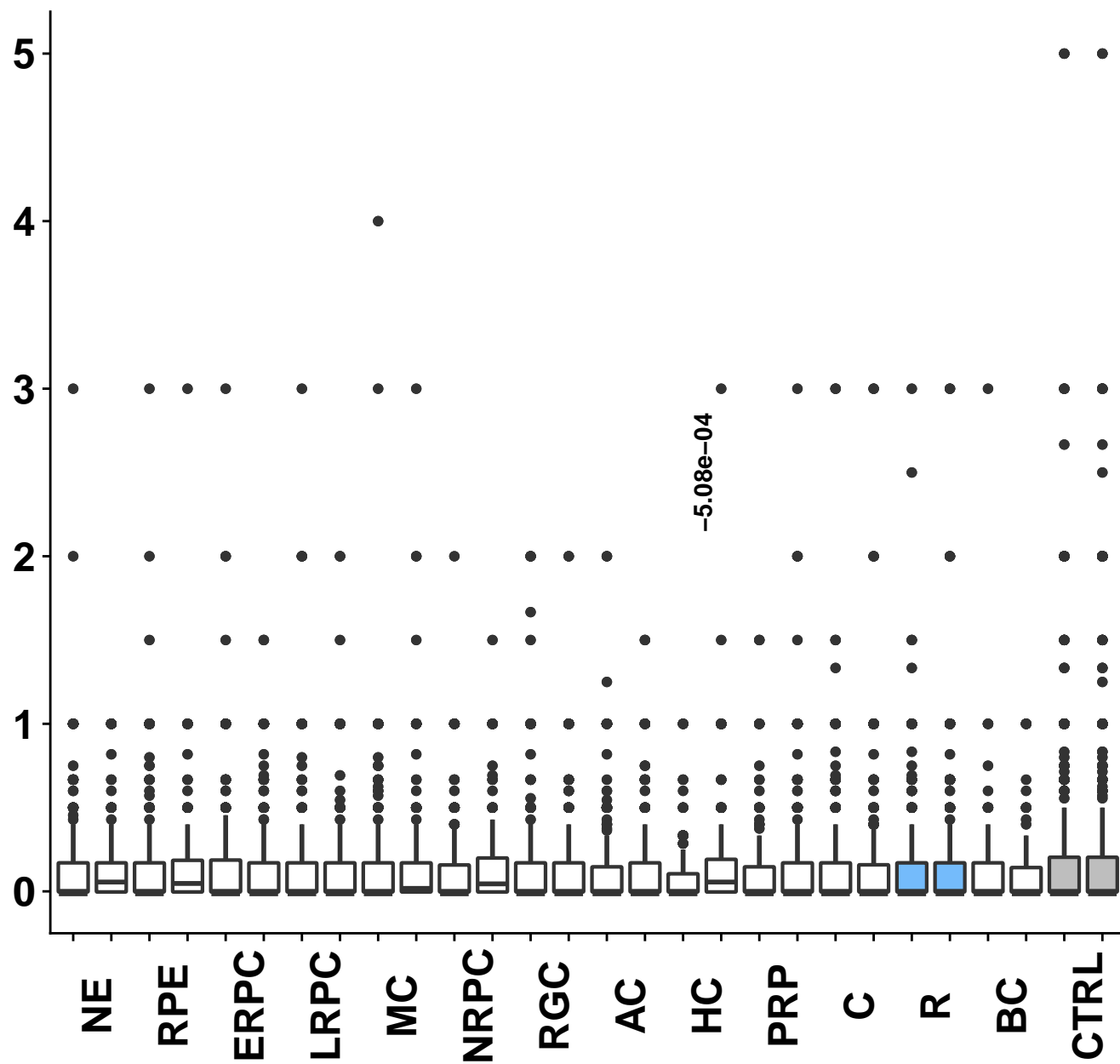
Prdm1_5_mean



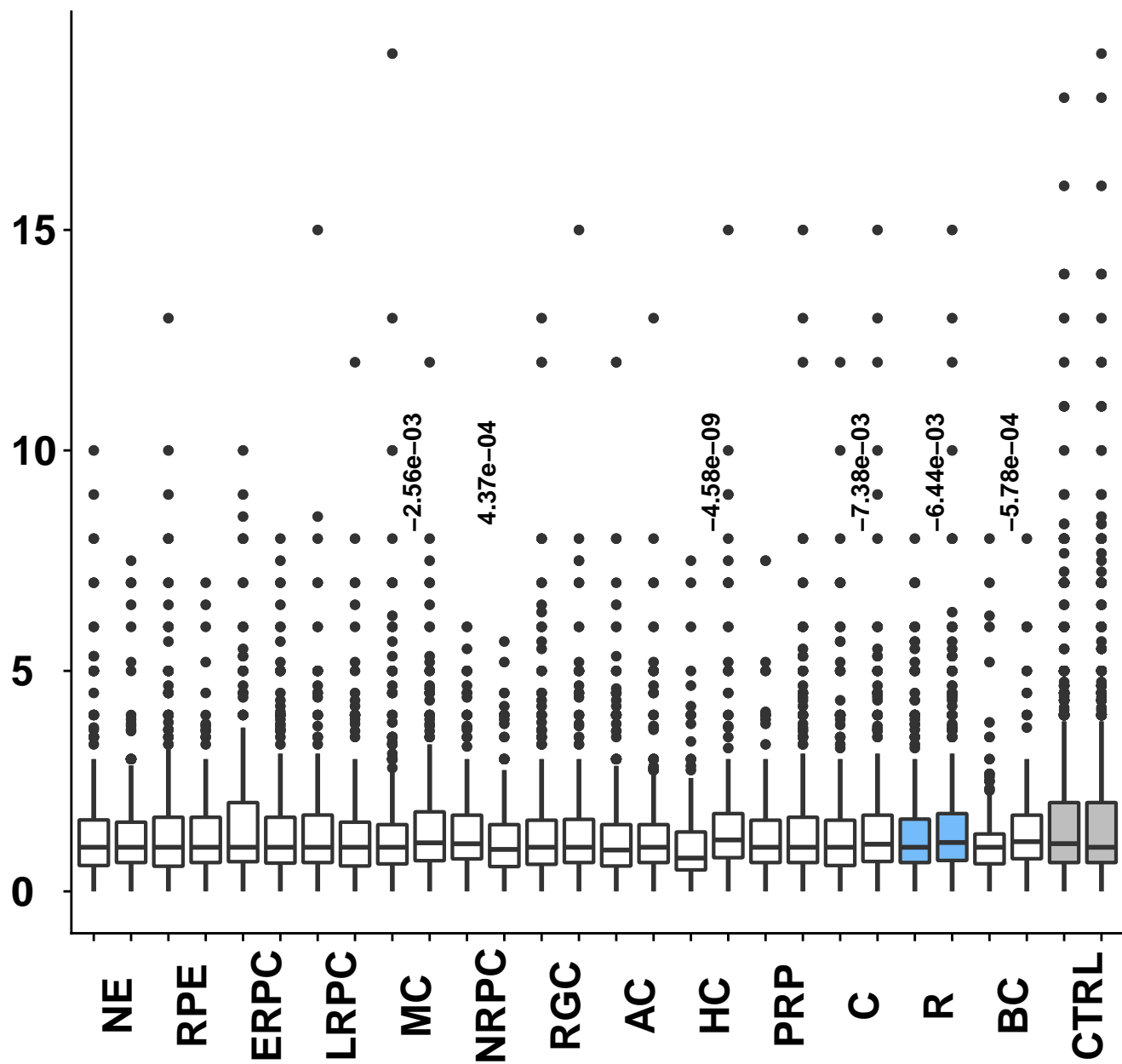
Rreb1_1_mean



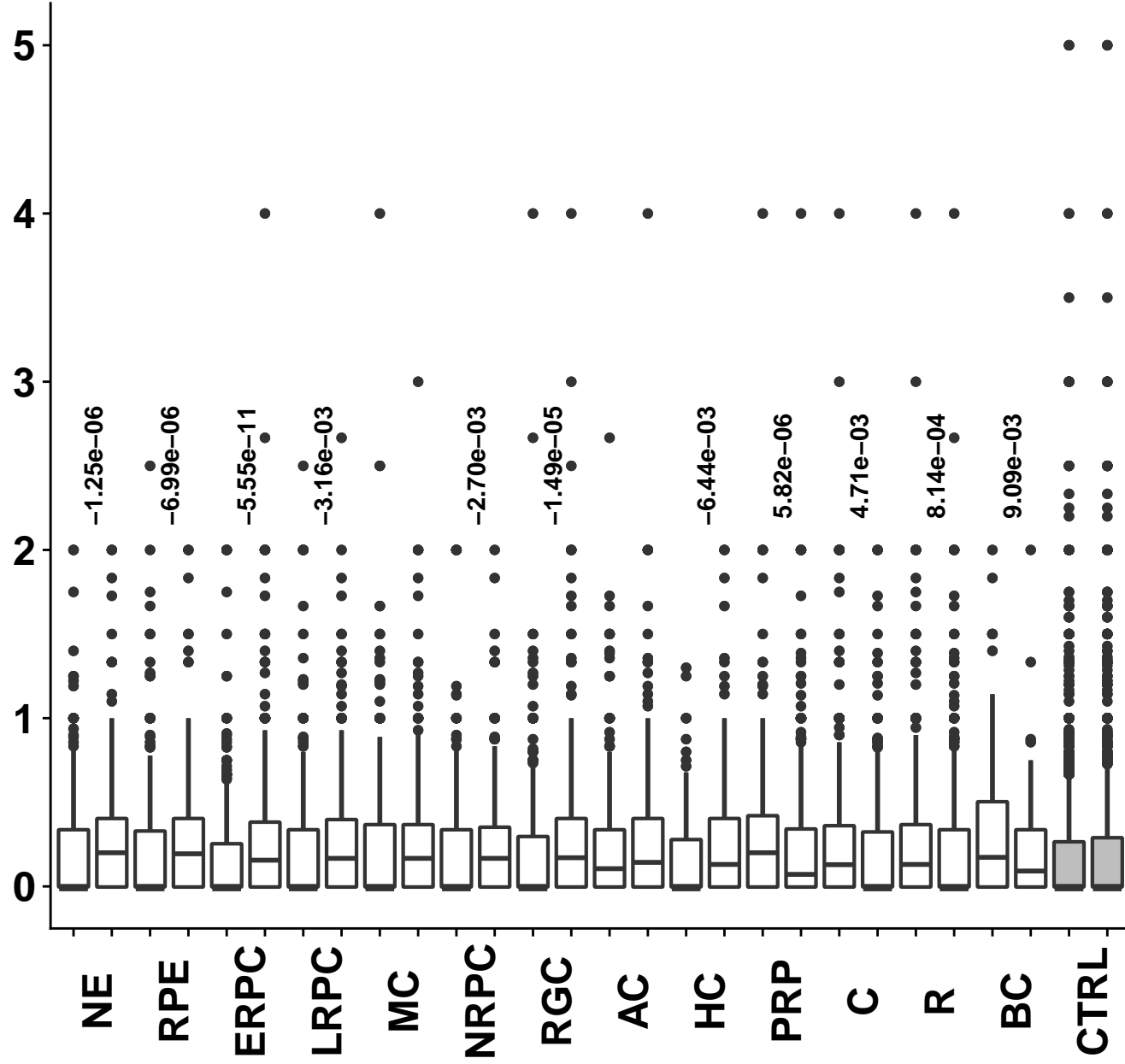
Ahr_1_mean



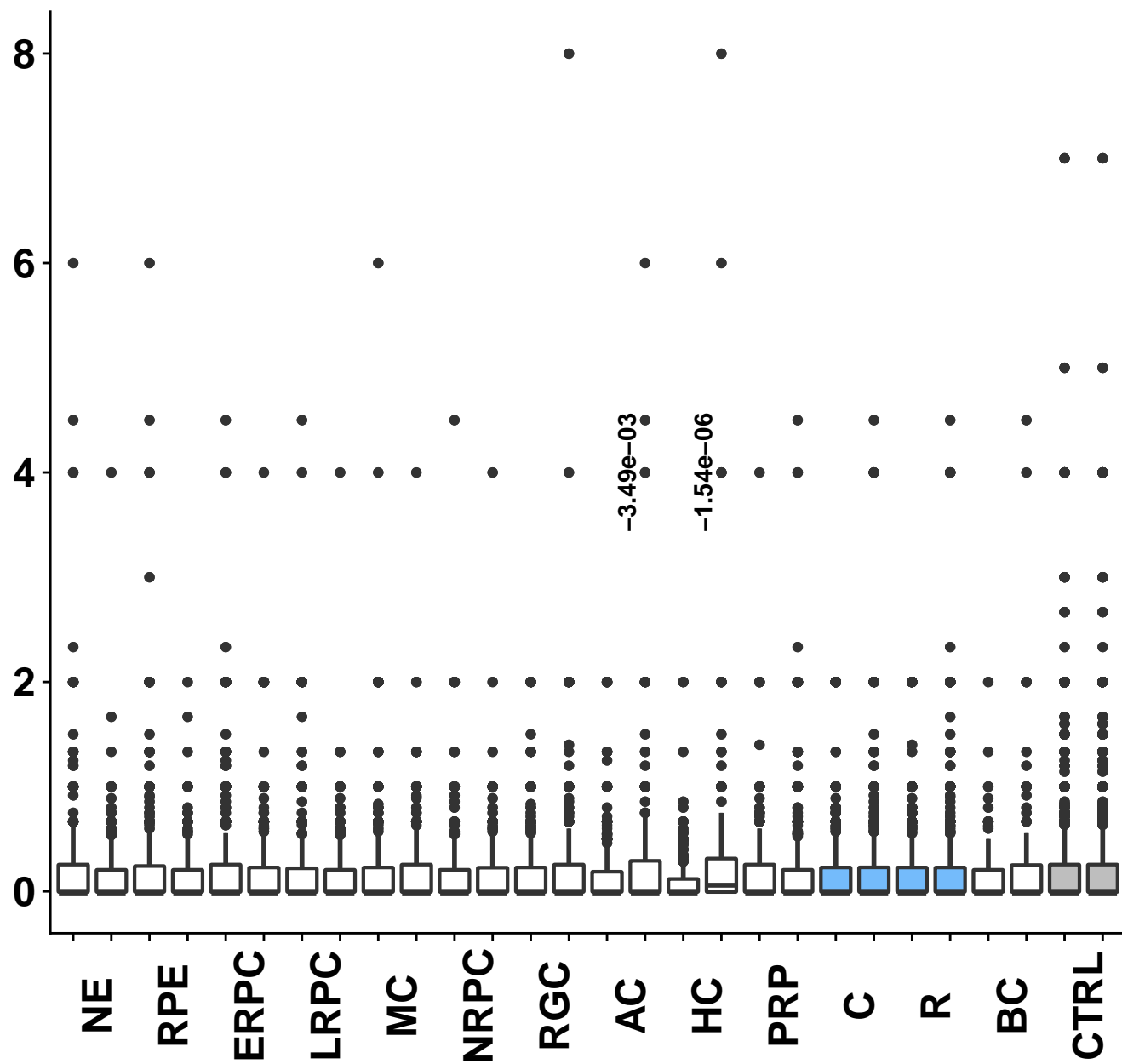
Ahr_2_mean



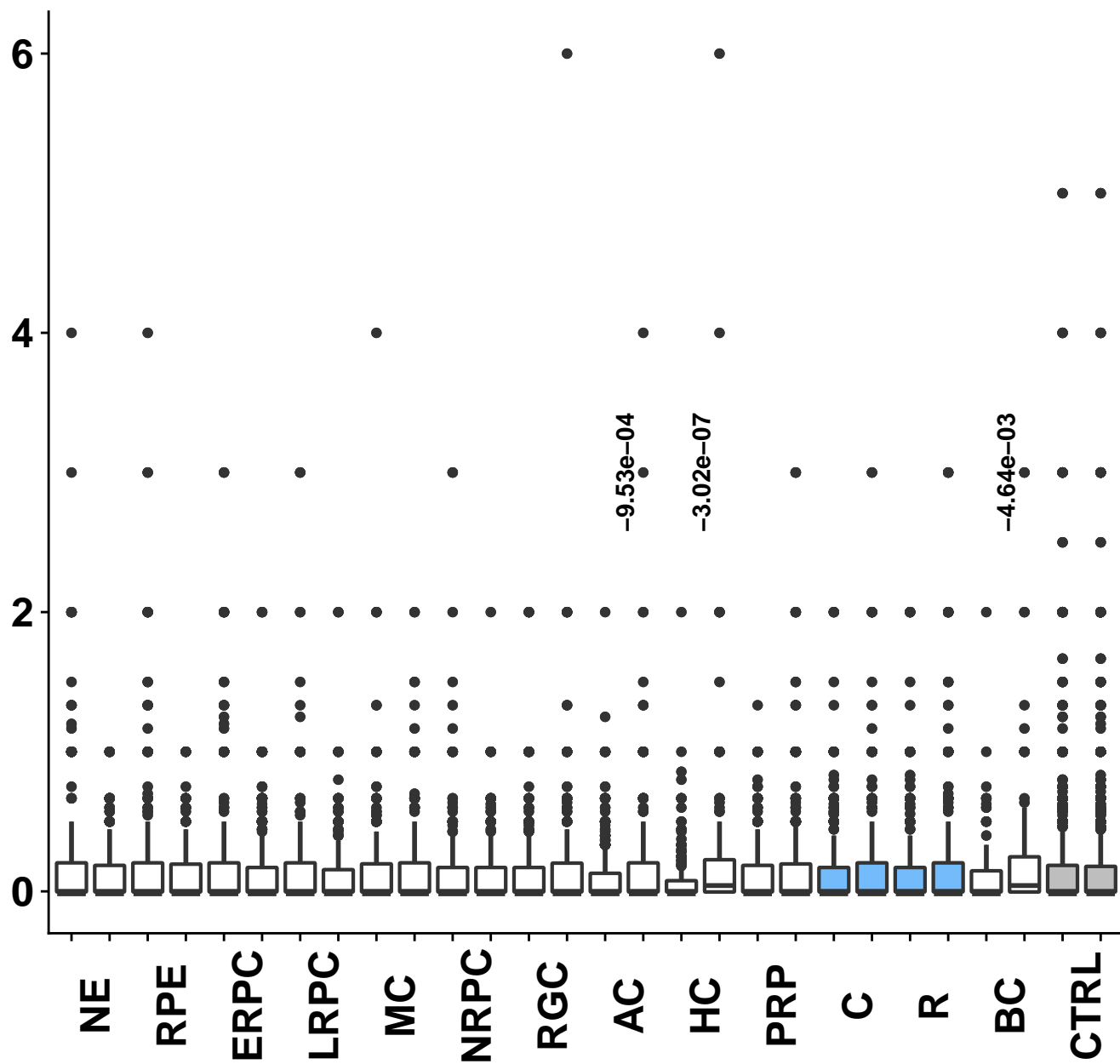
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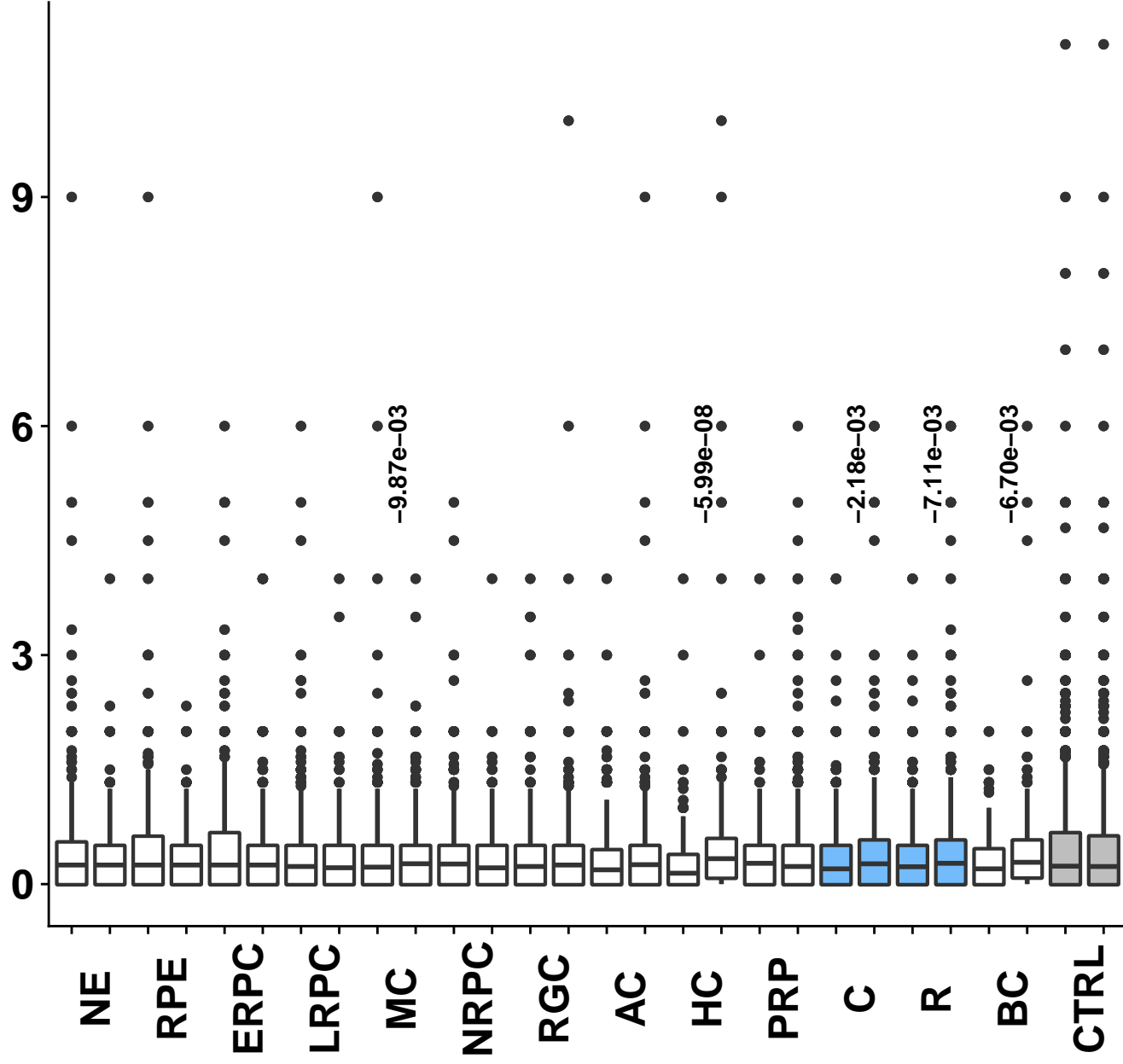
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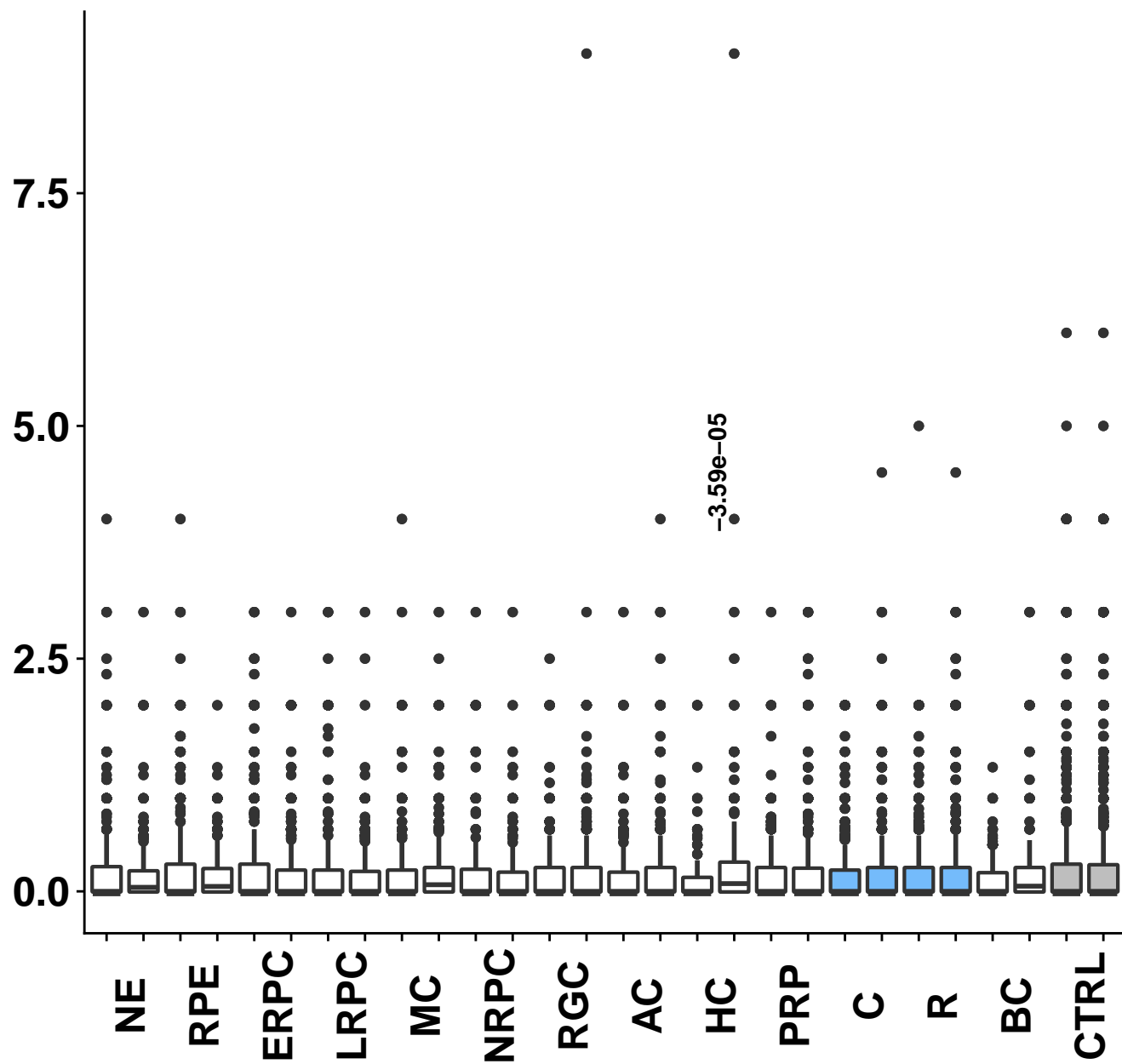
Max_2_mean



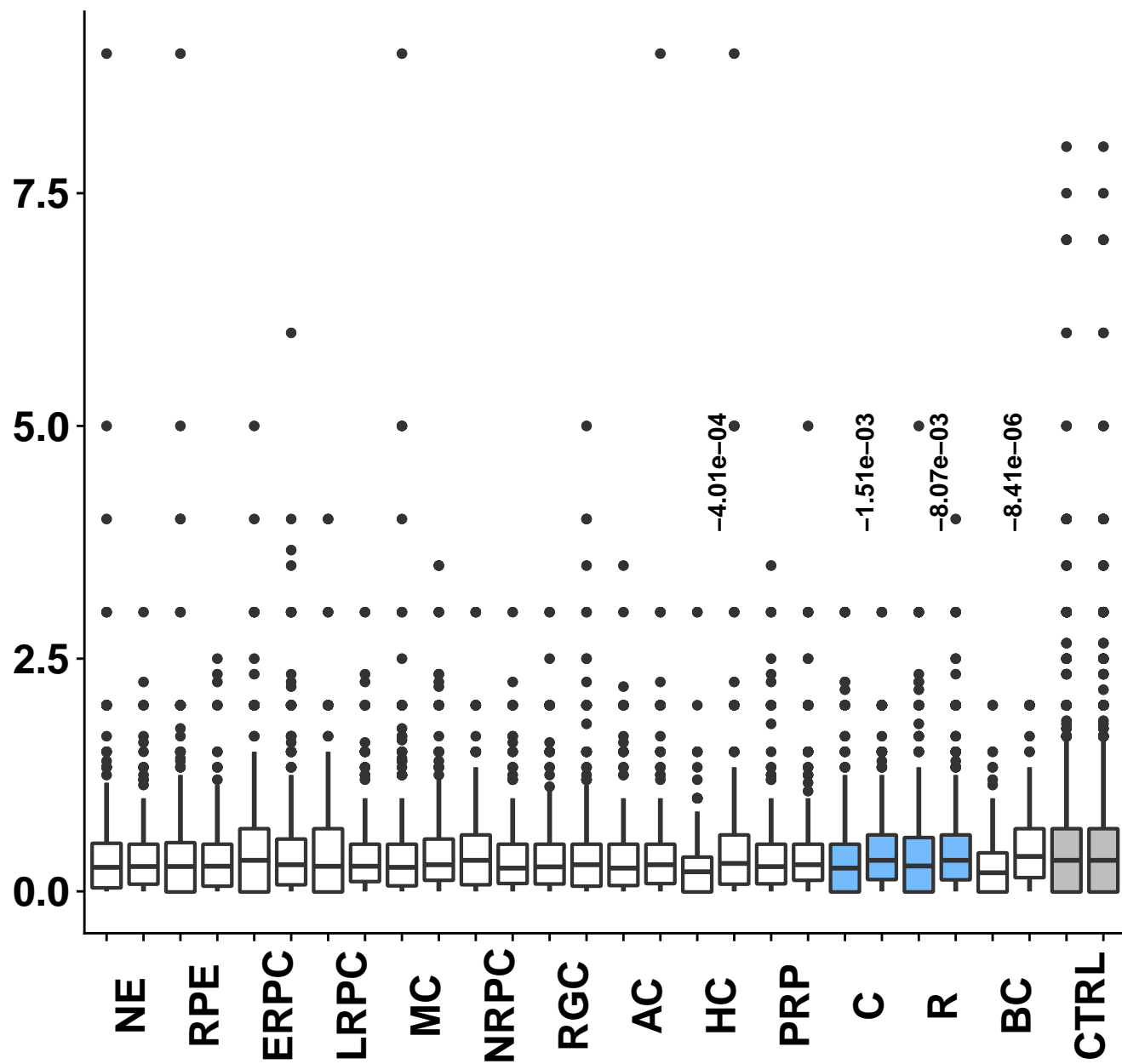
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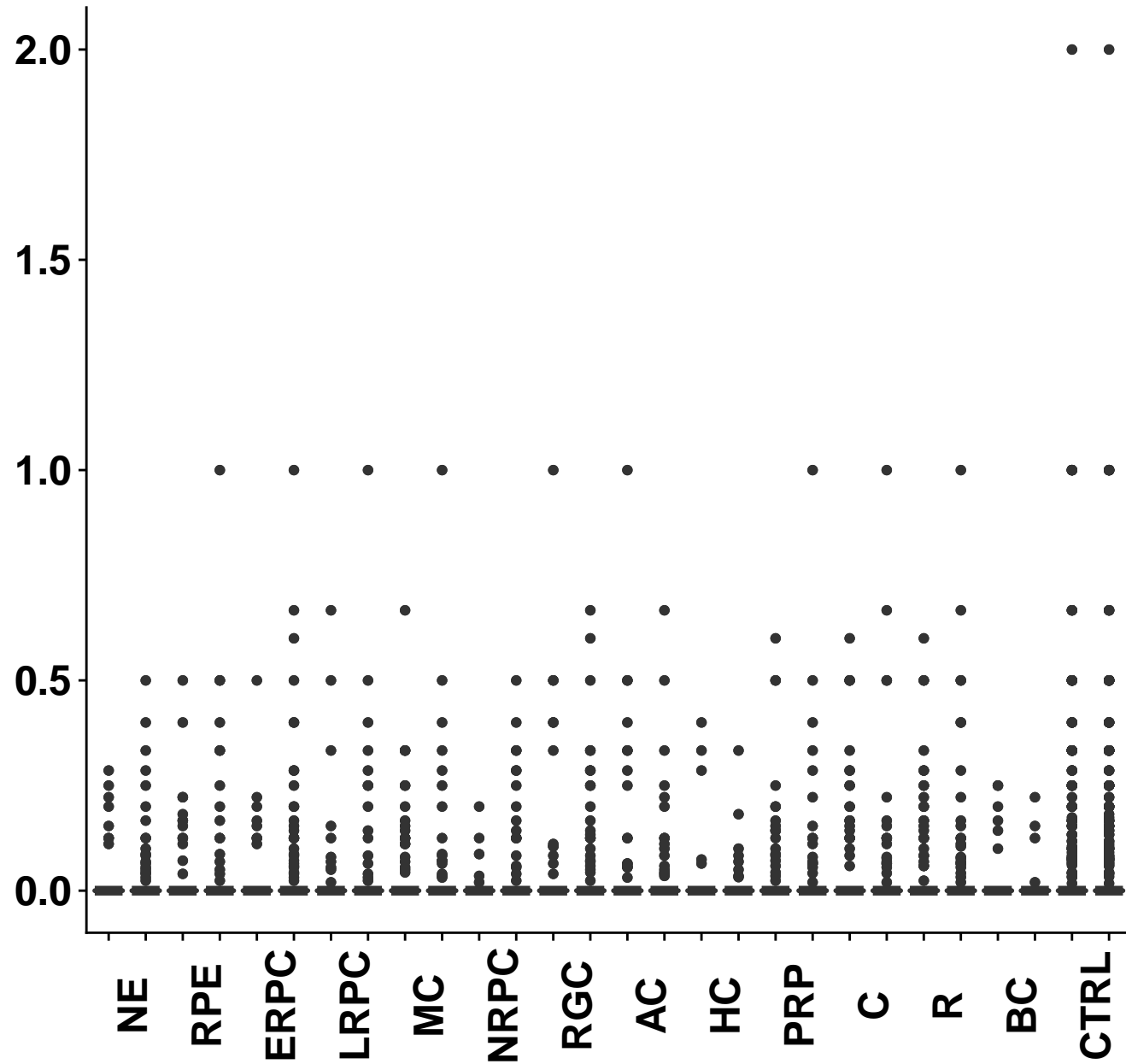
Max_4_mean



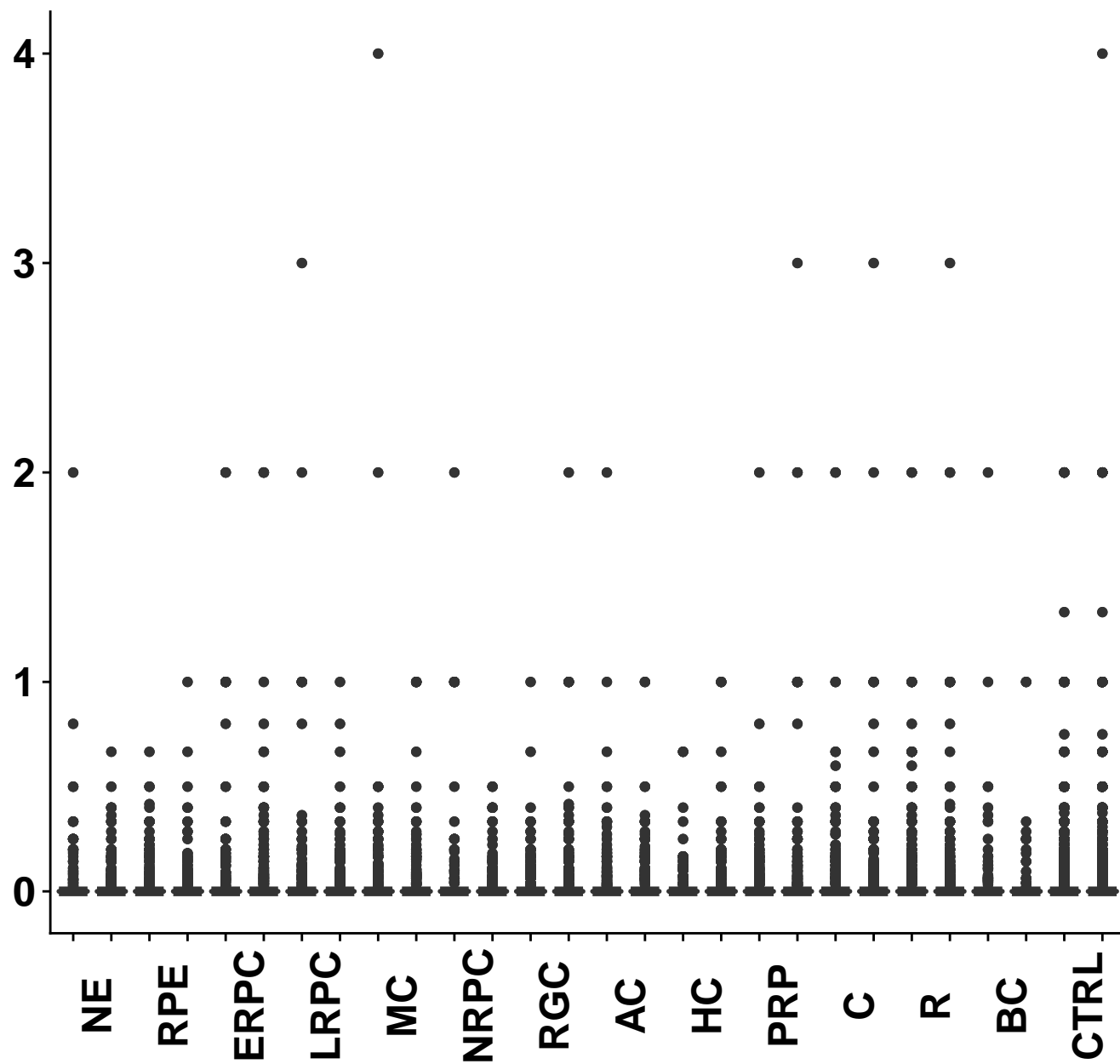
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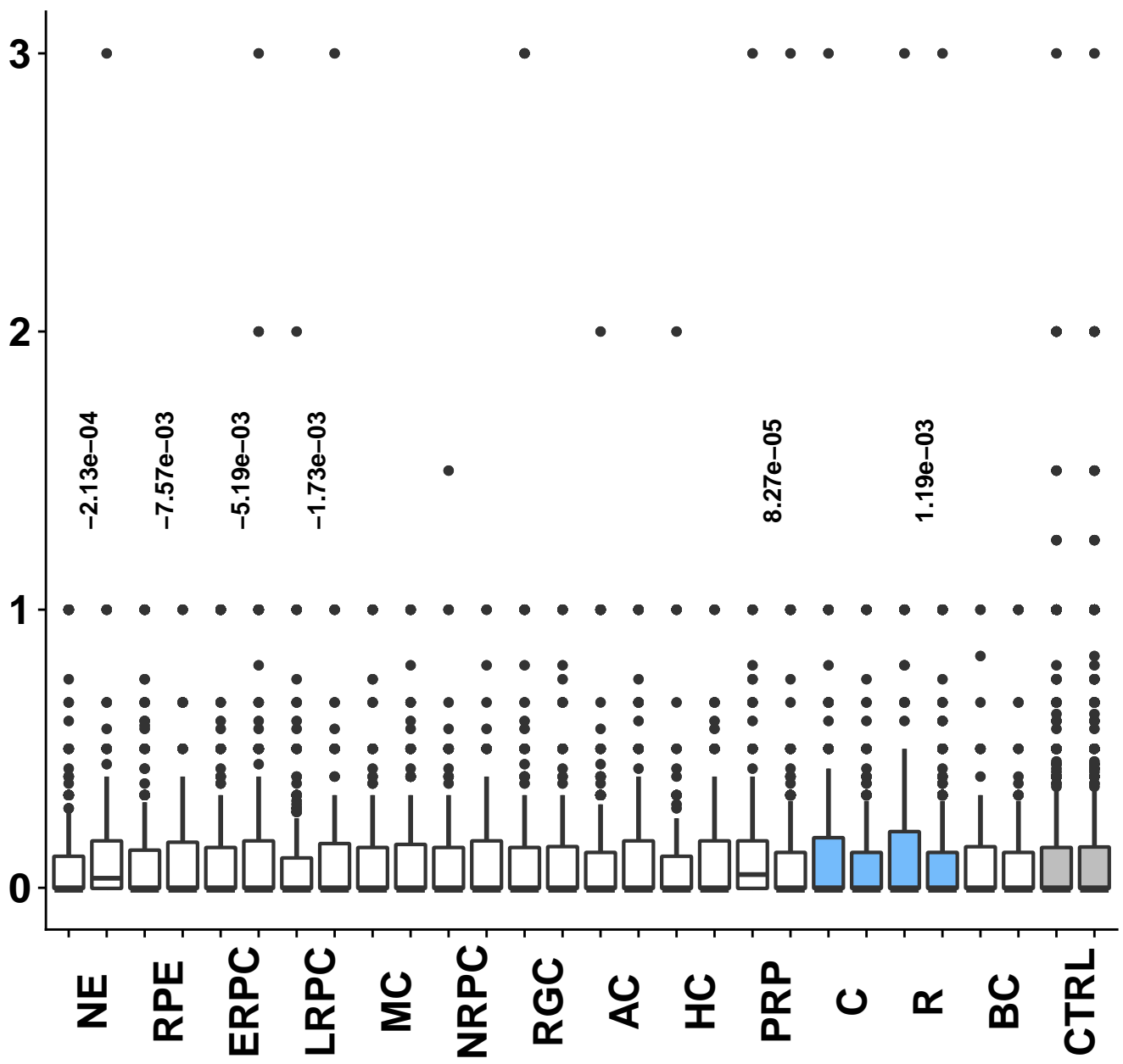
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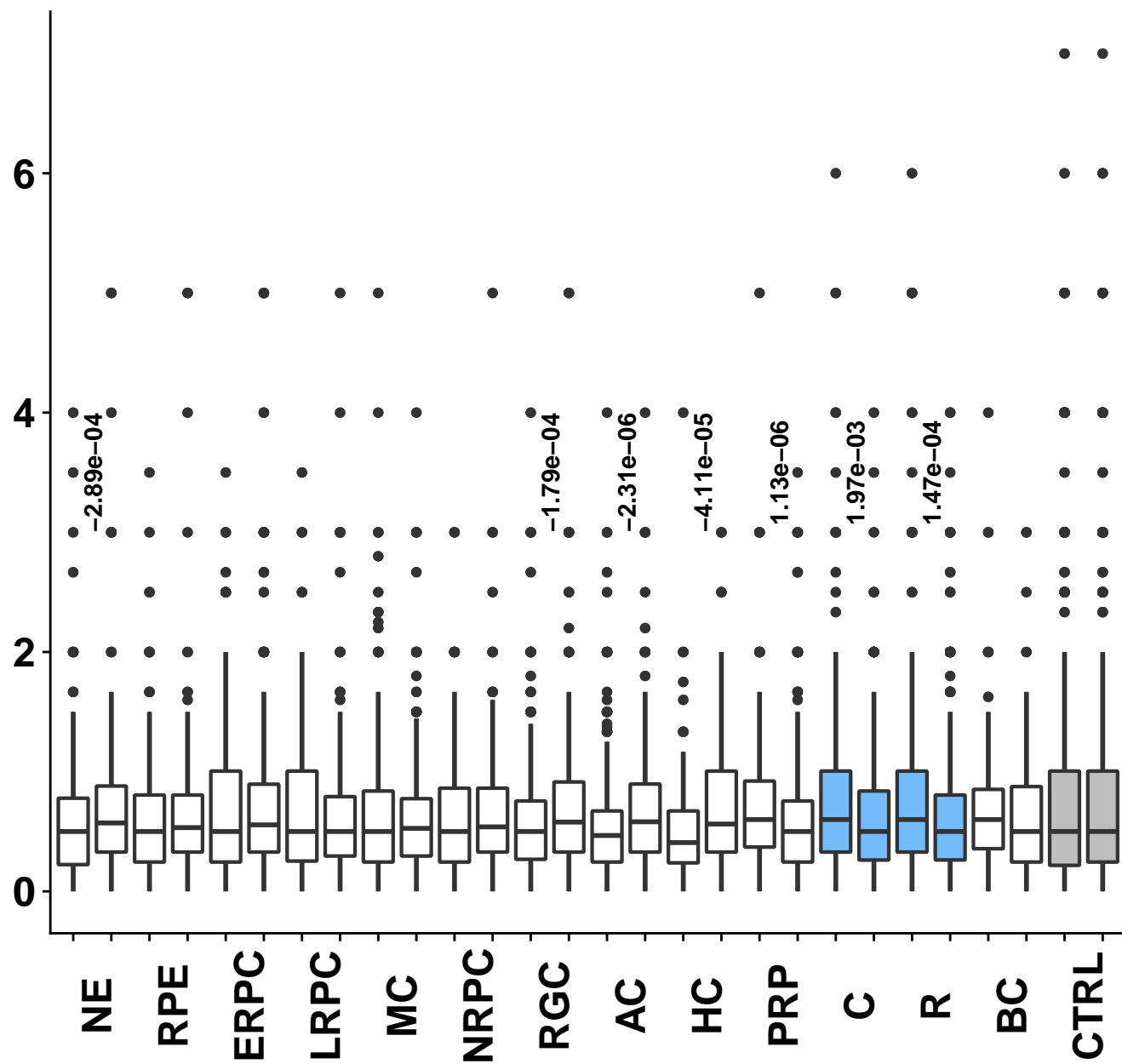
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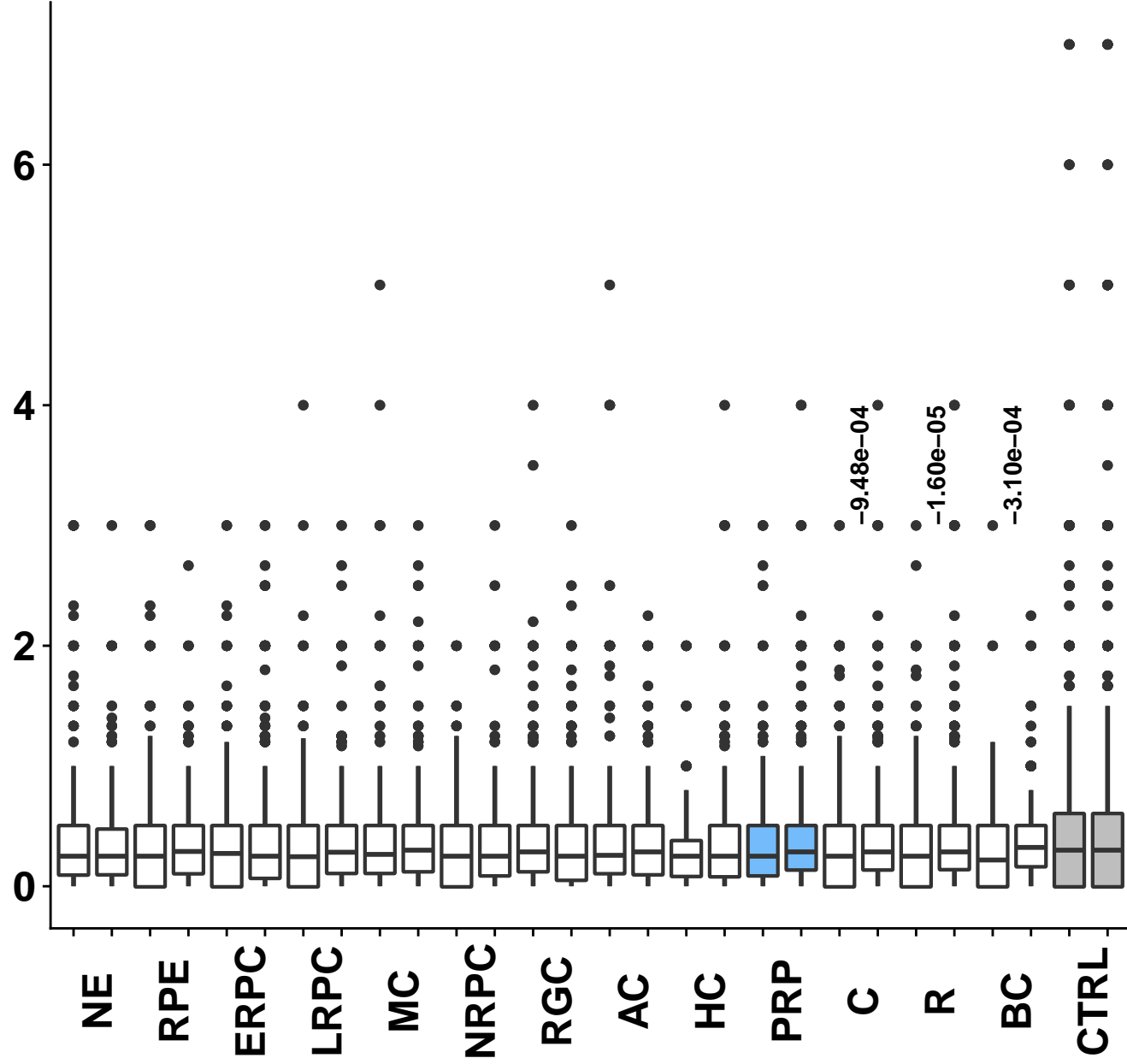
Thrb_1_mean



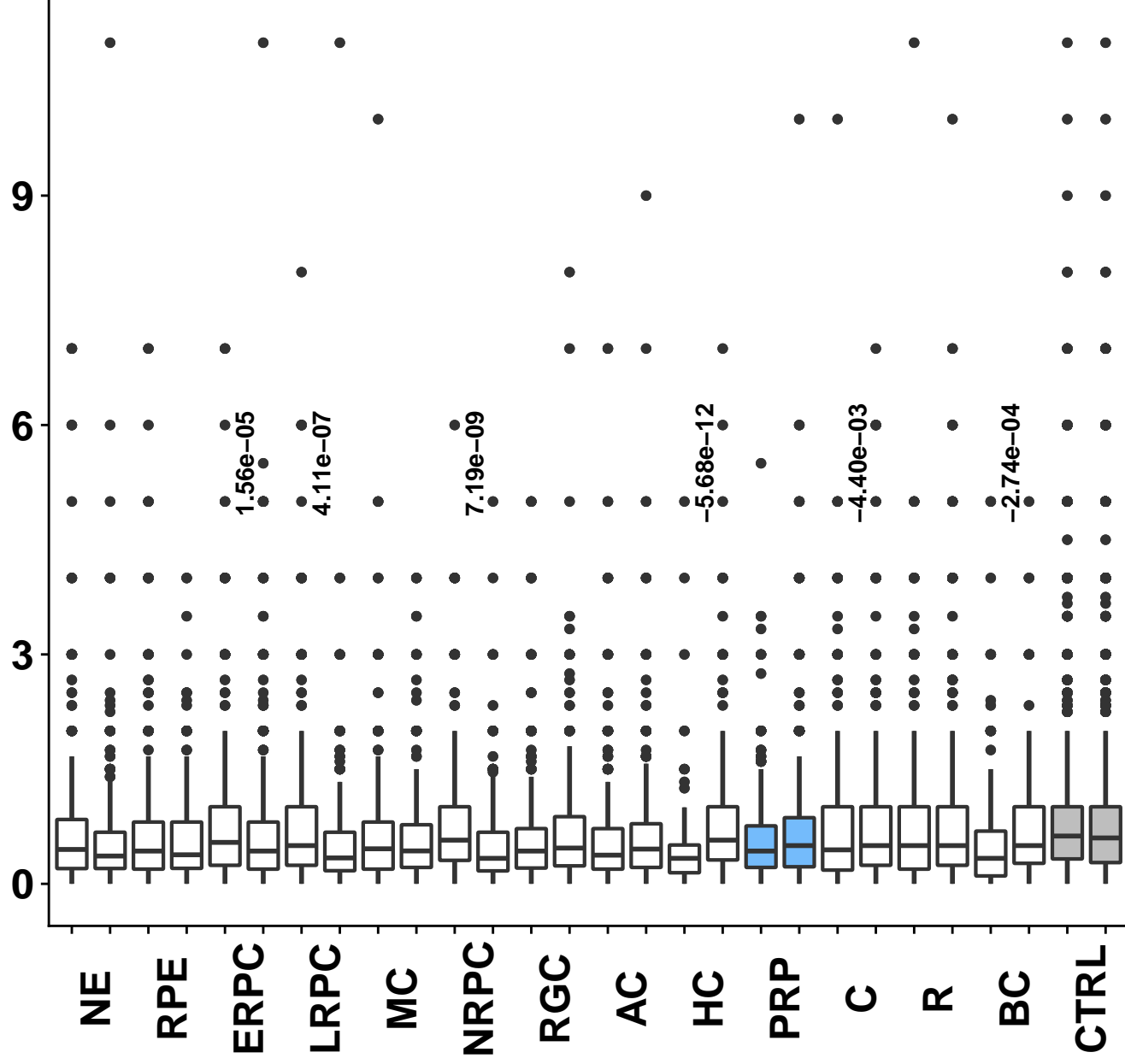
Thrb_2_mean



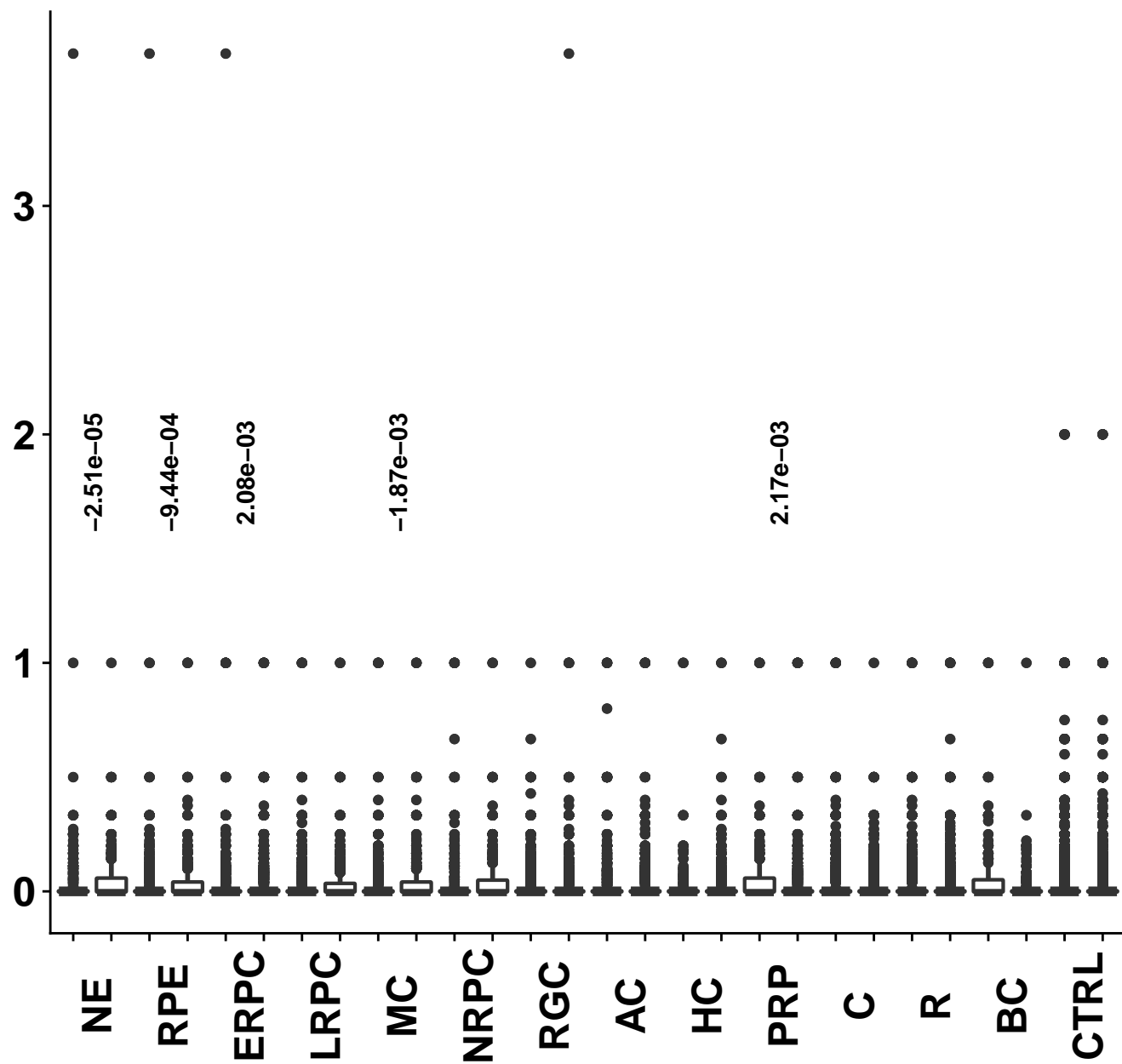
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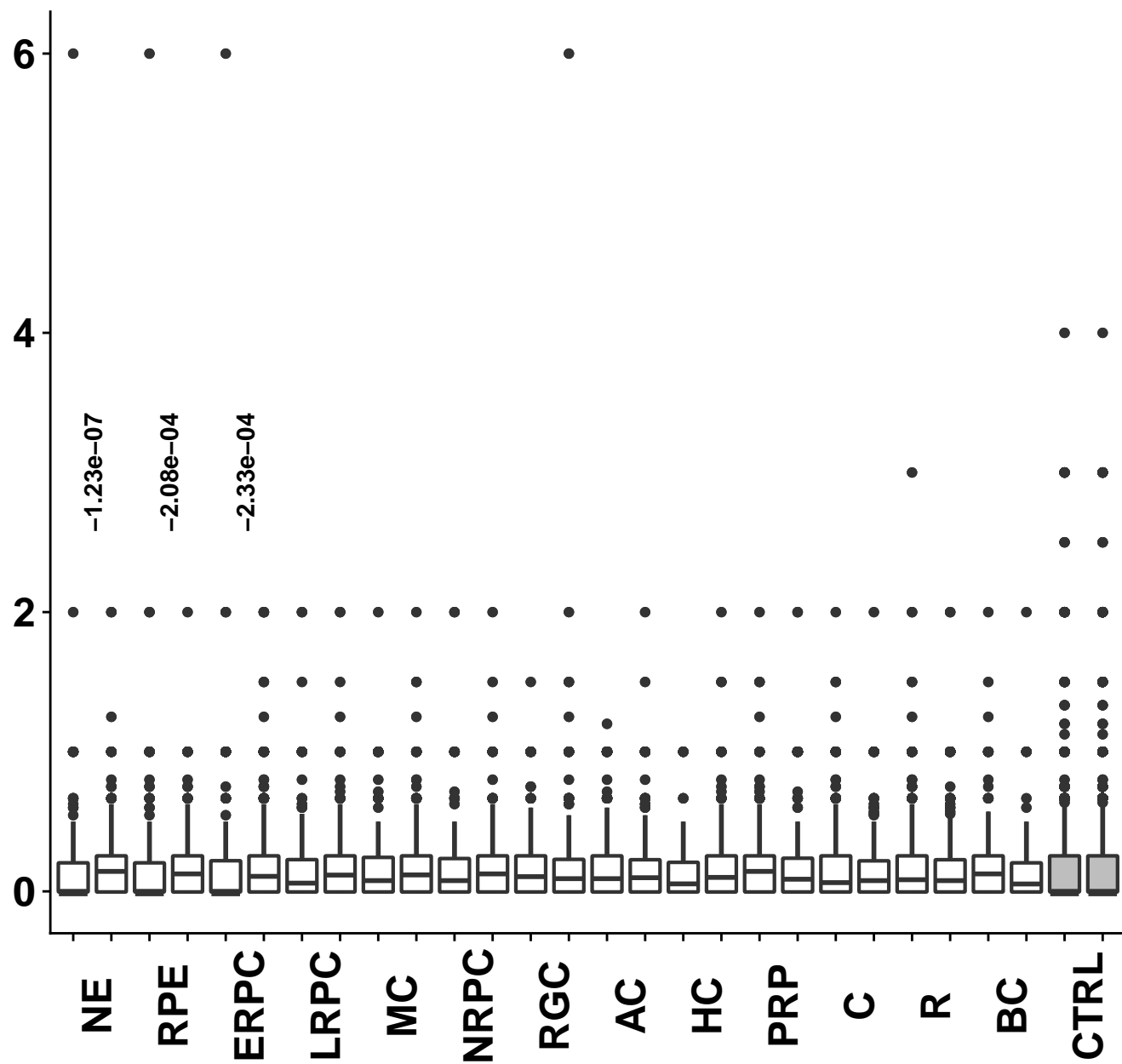
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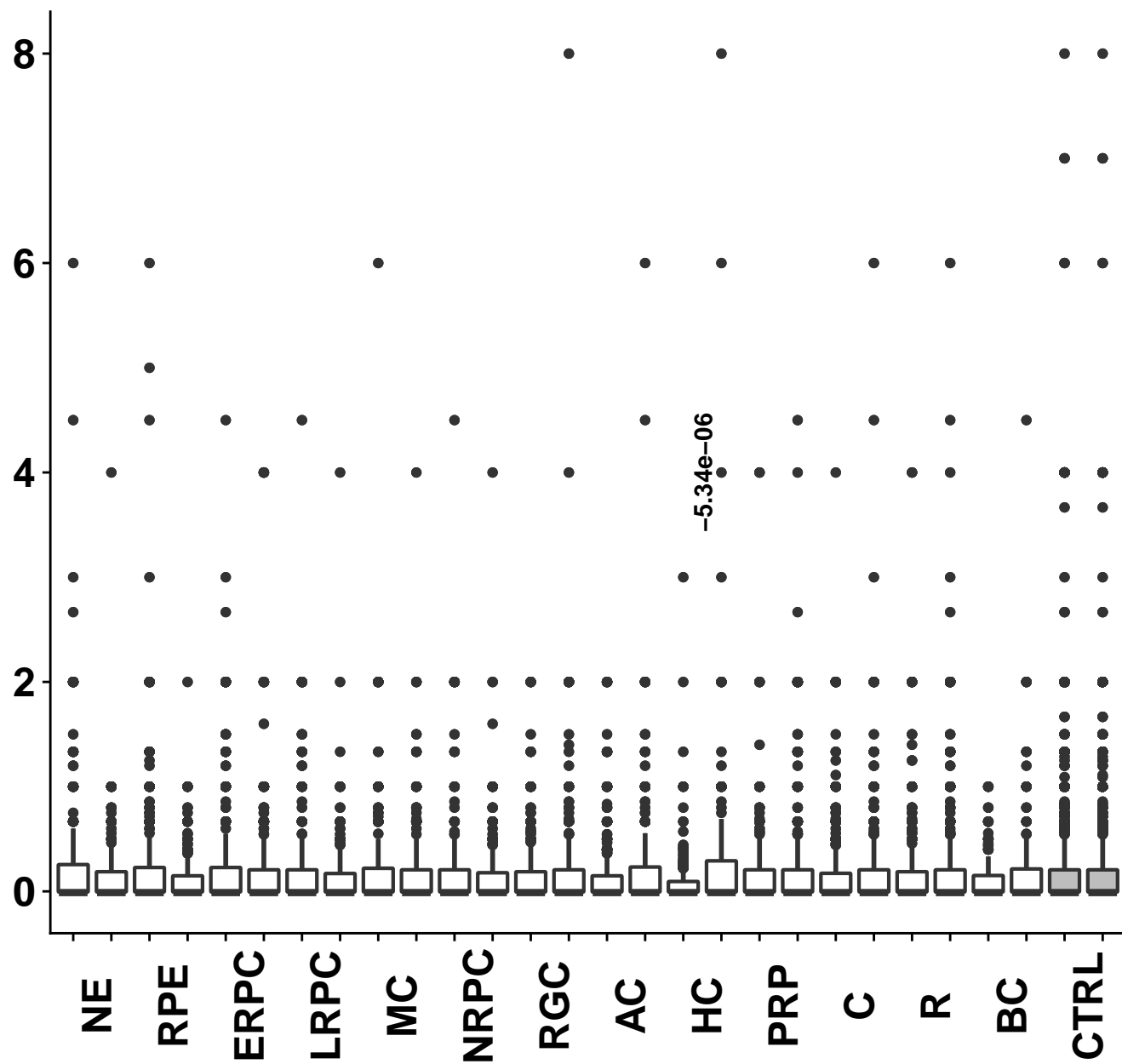
Pbx3_1_mean



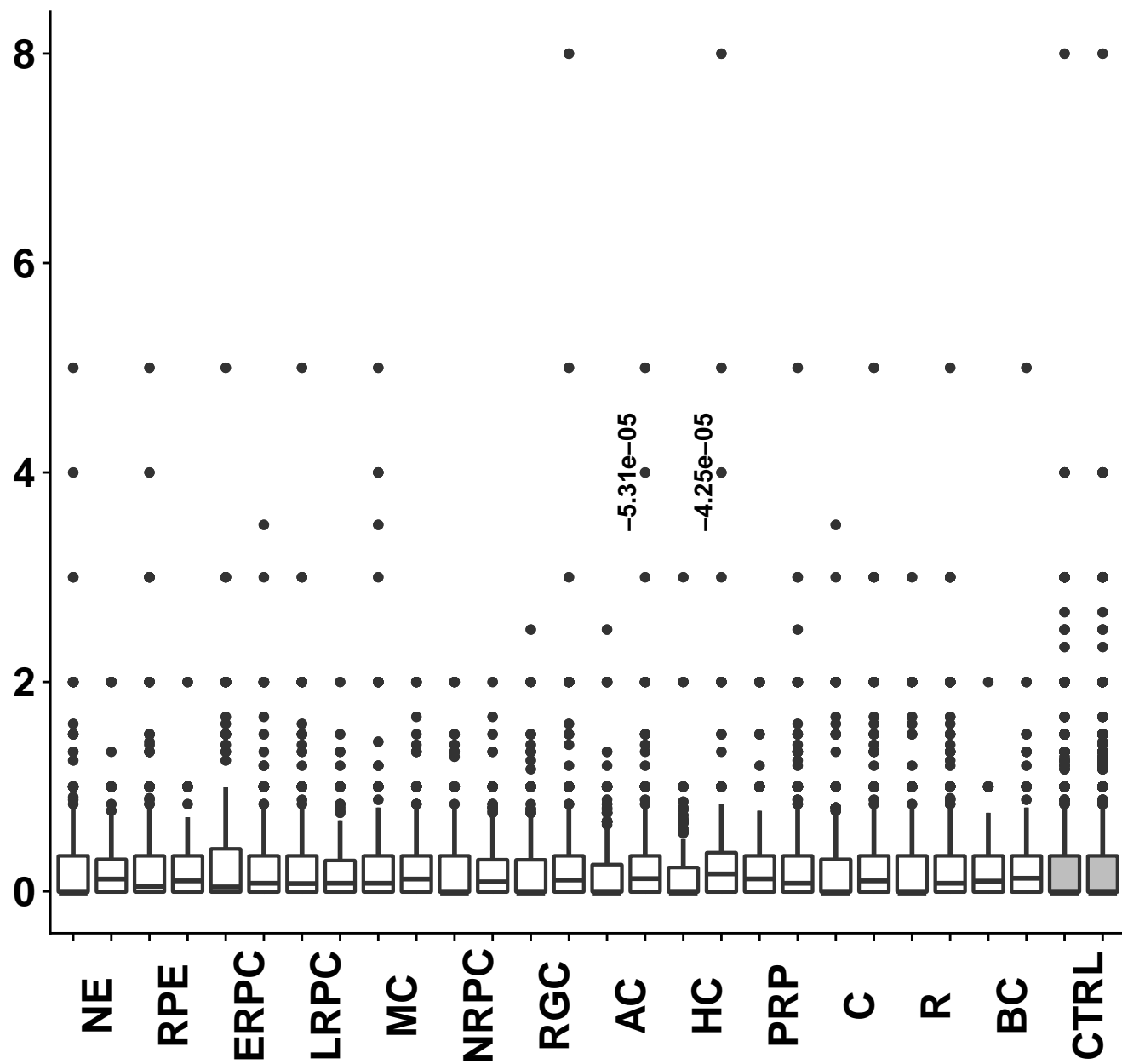
Pbx3_2_mean



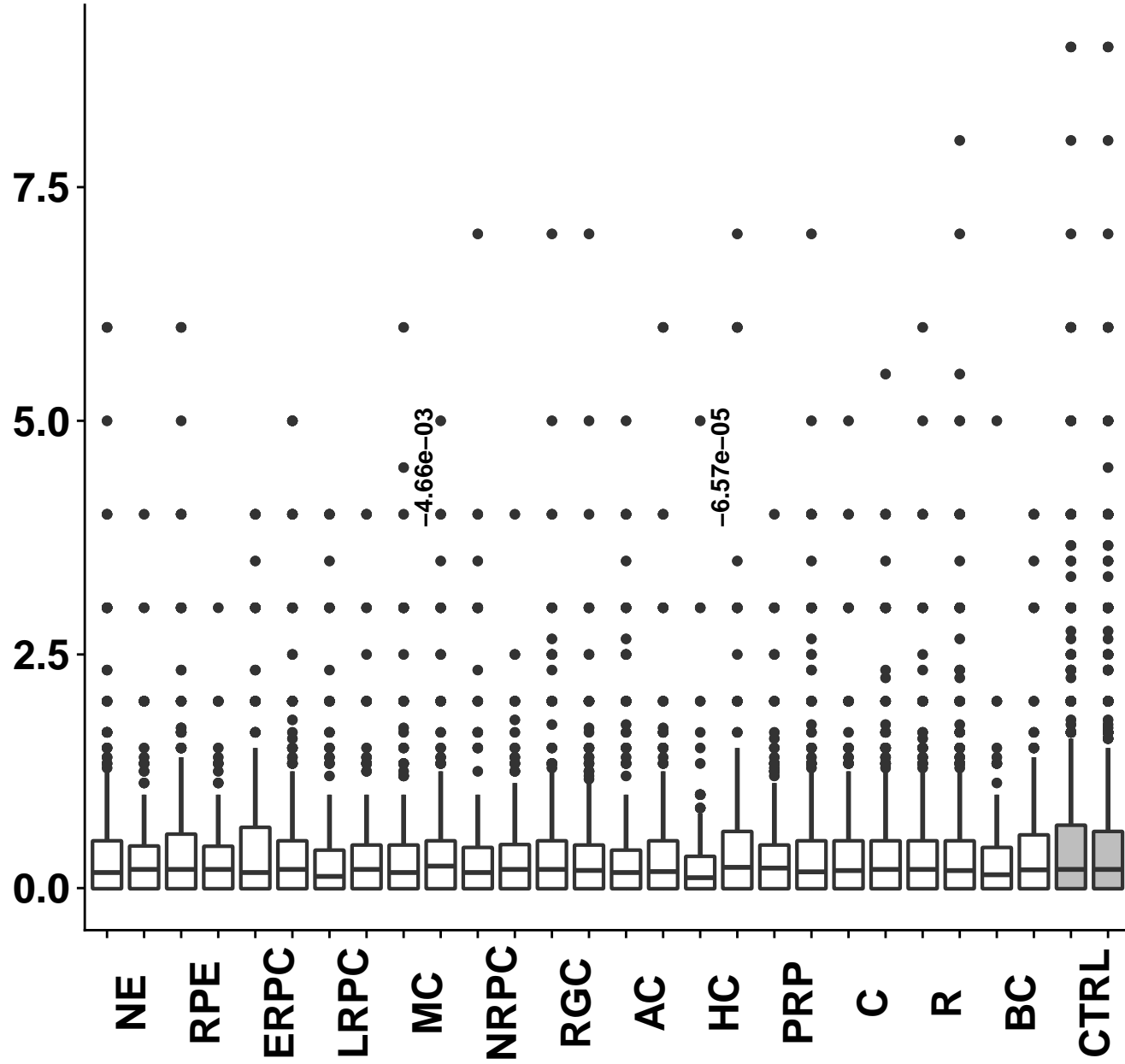
Clock_1_mean



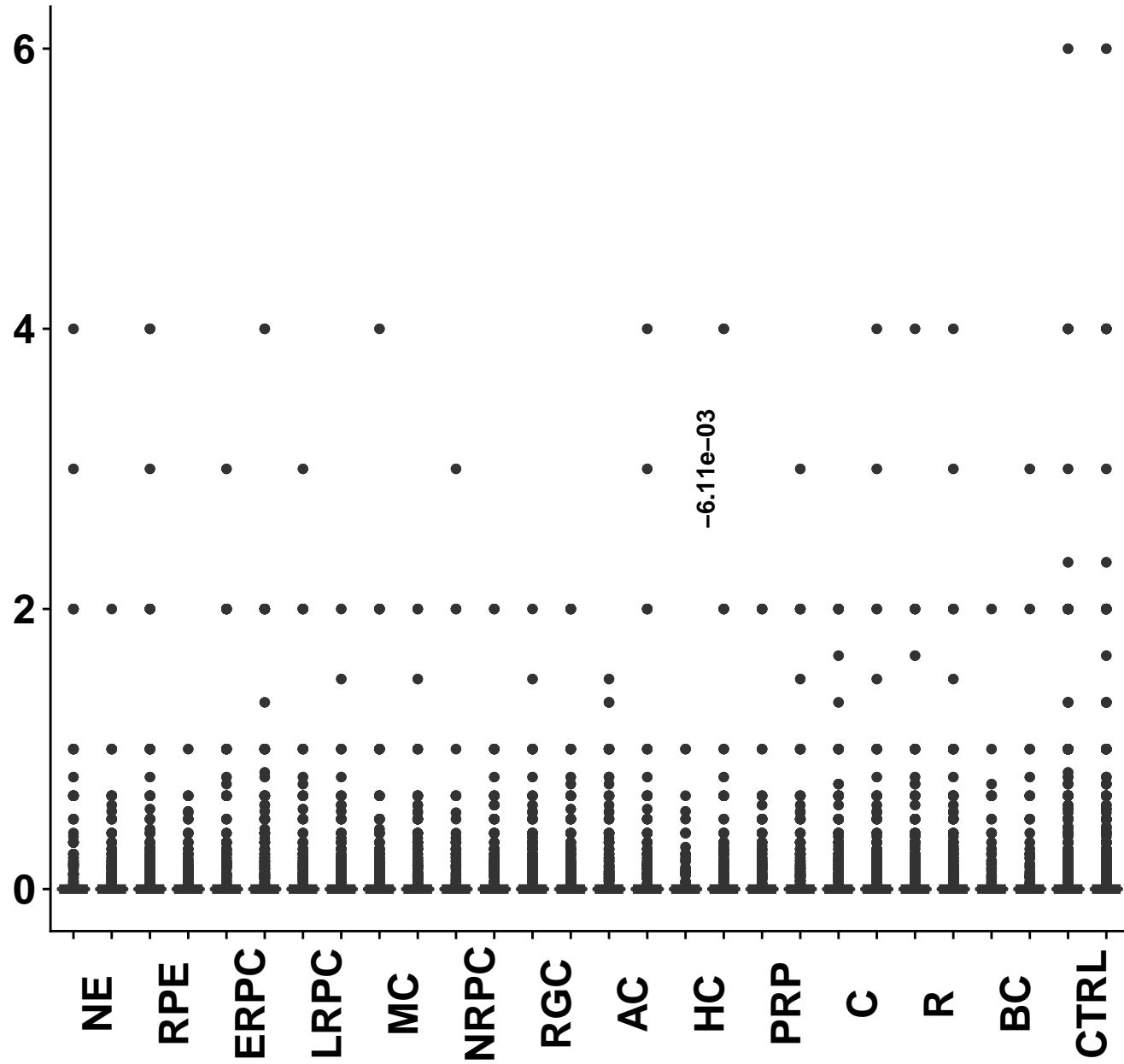
Clock_2_mean



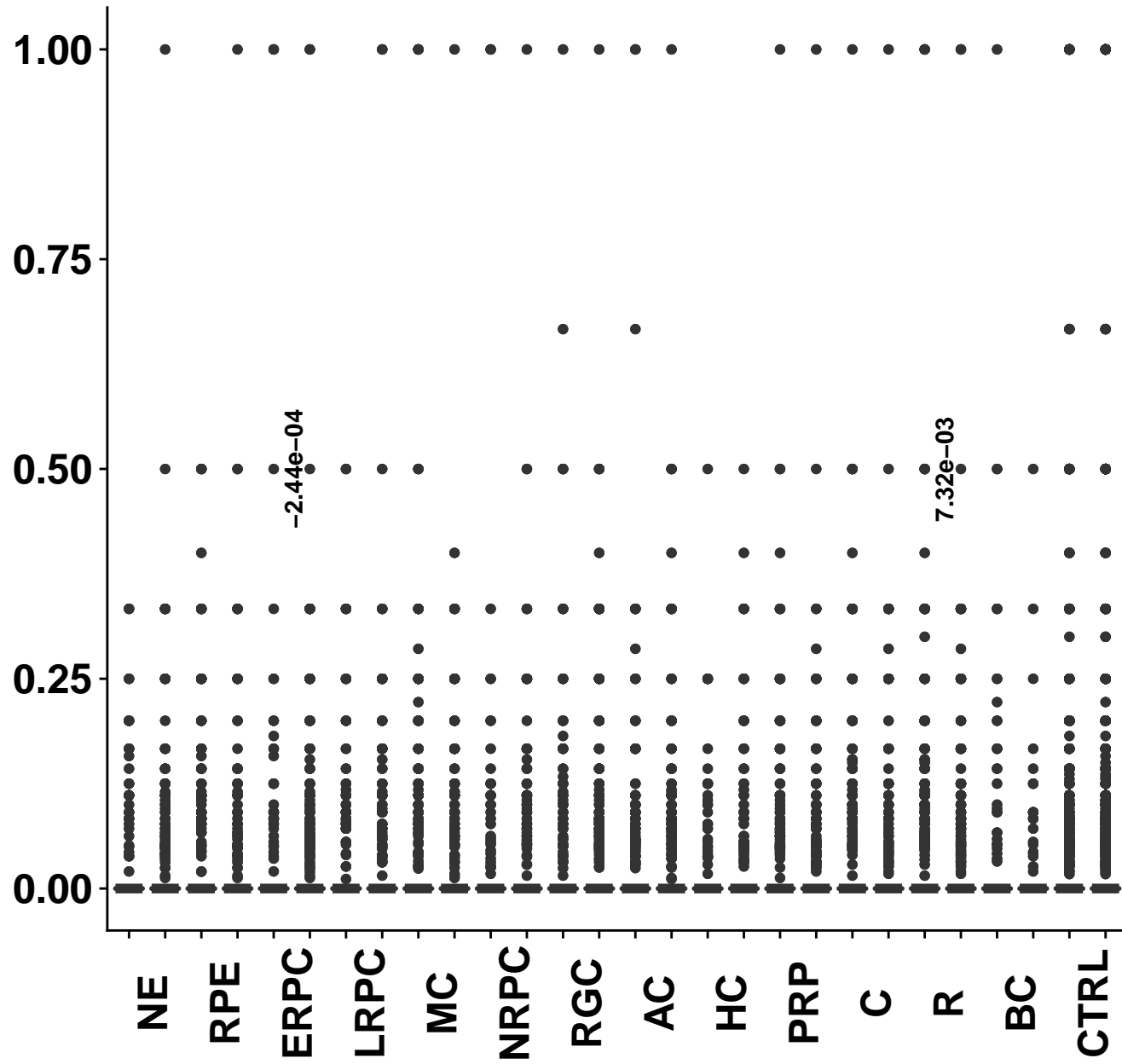
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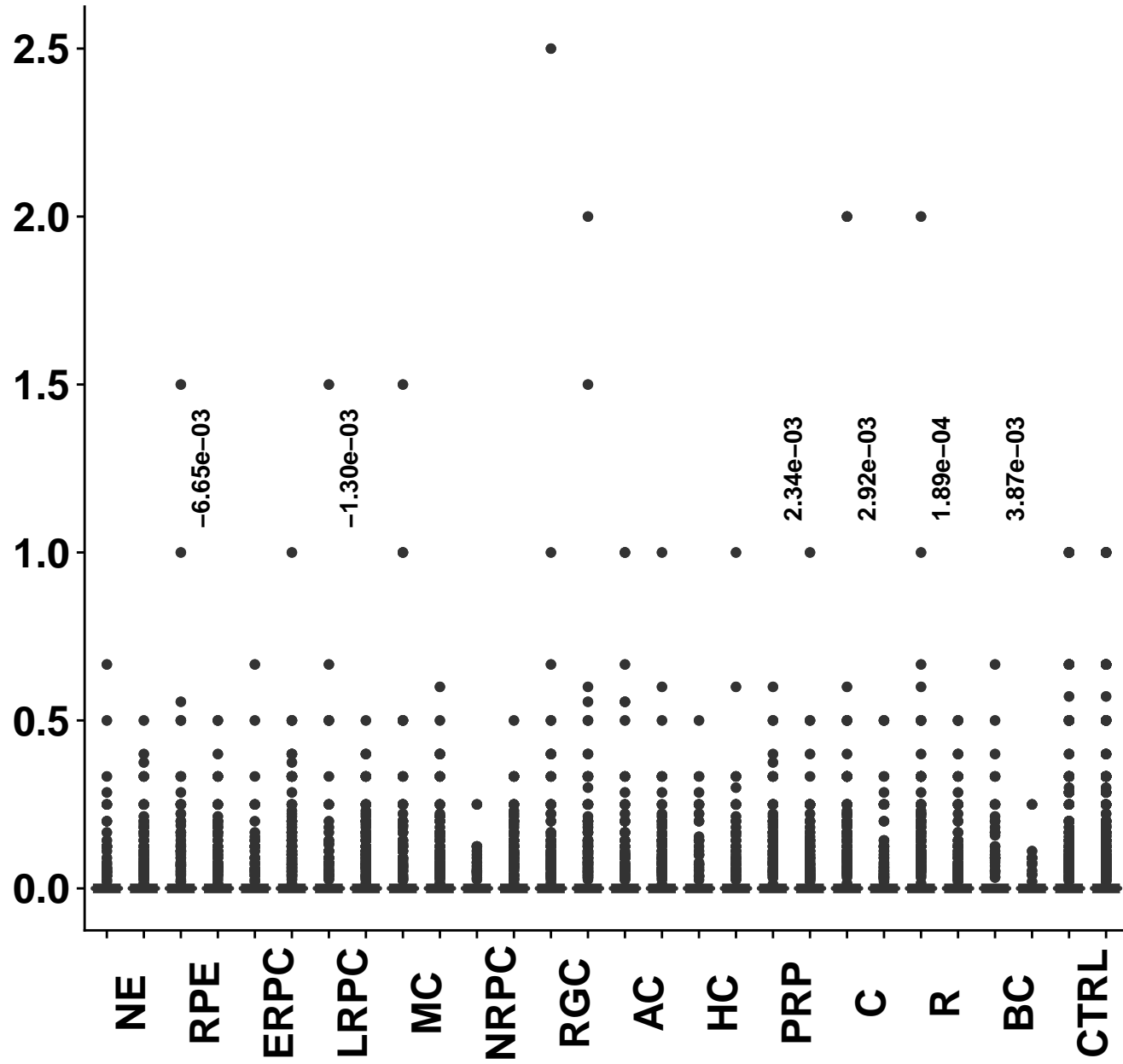
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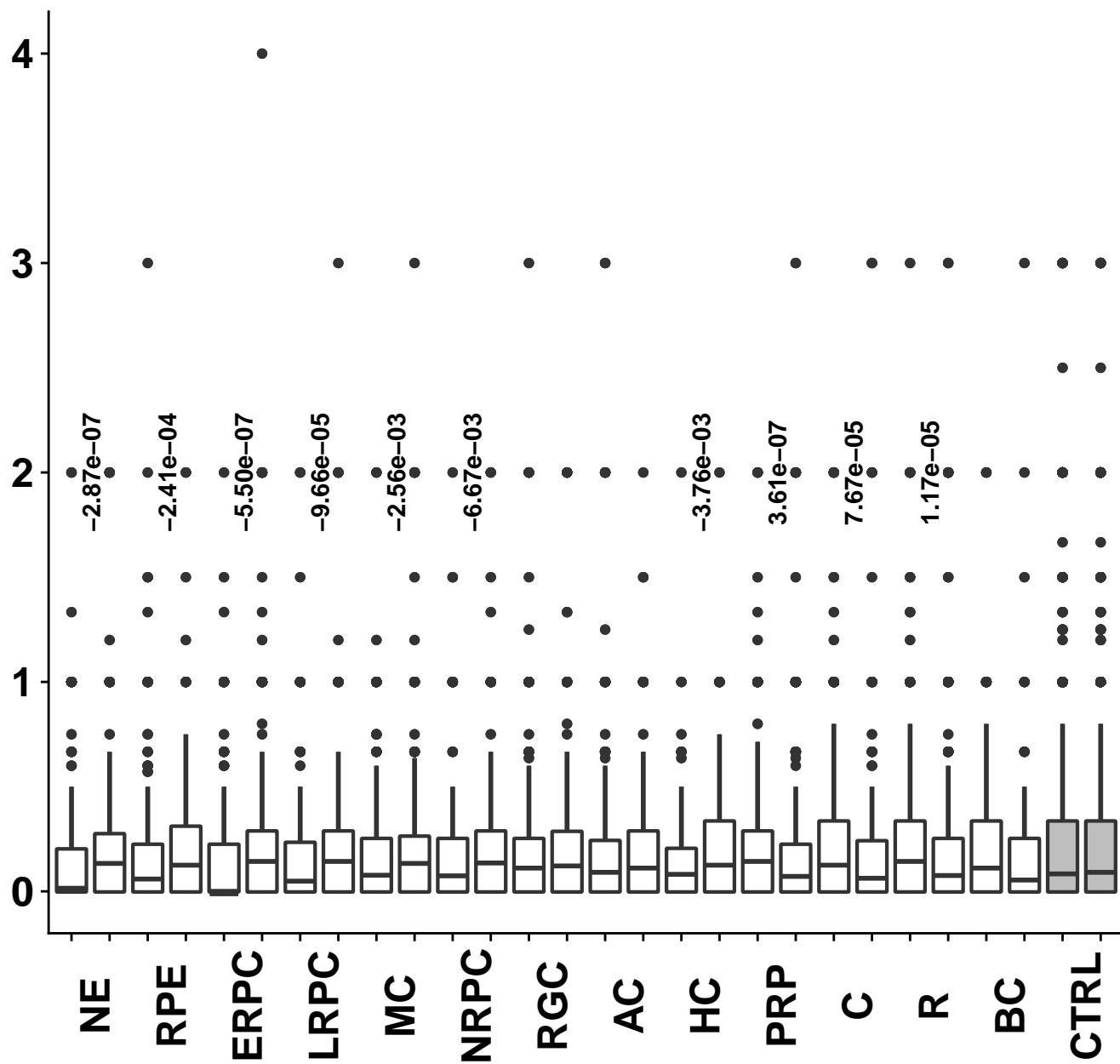
Mef2a_1_mean



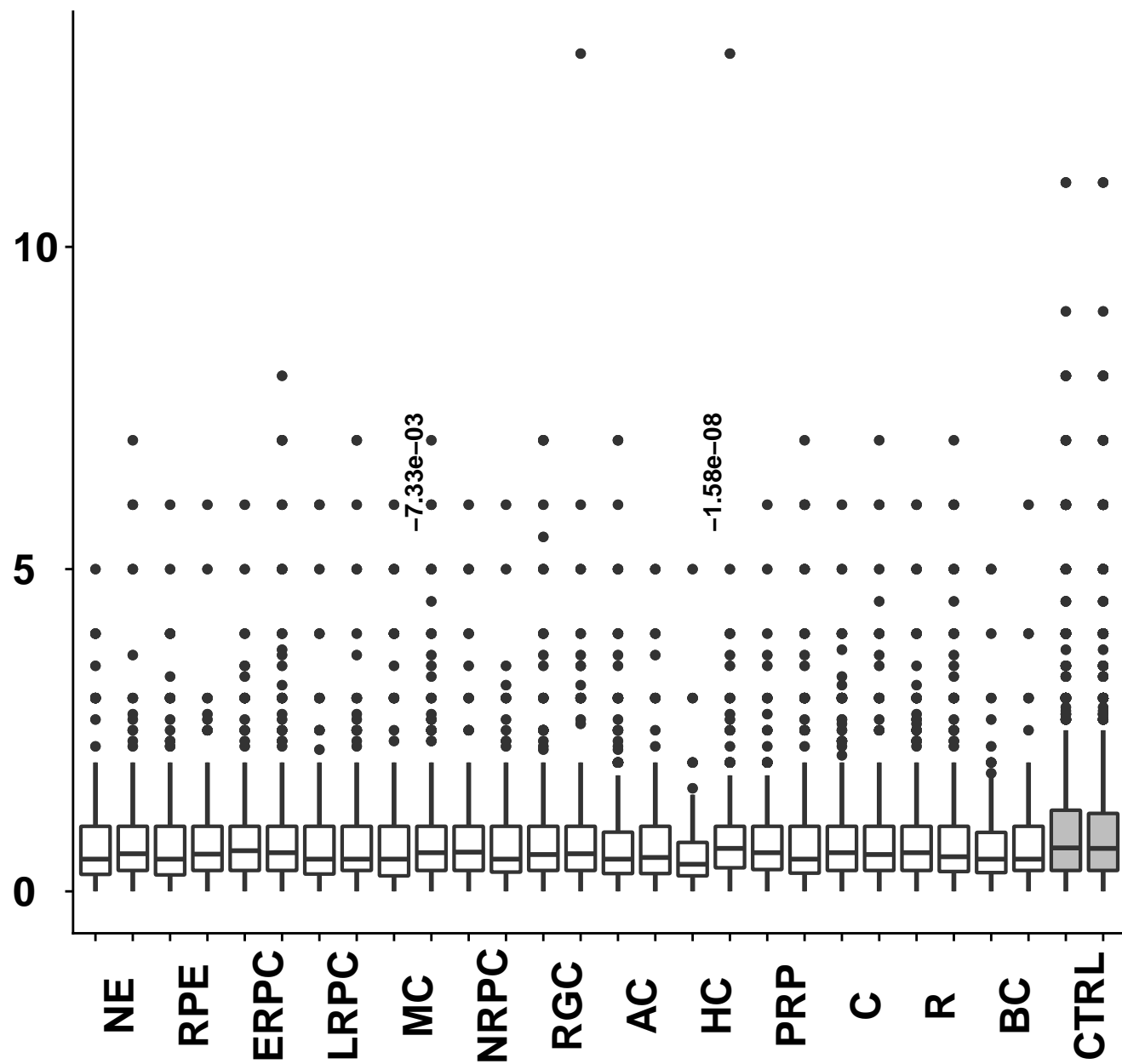
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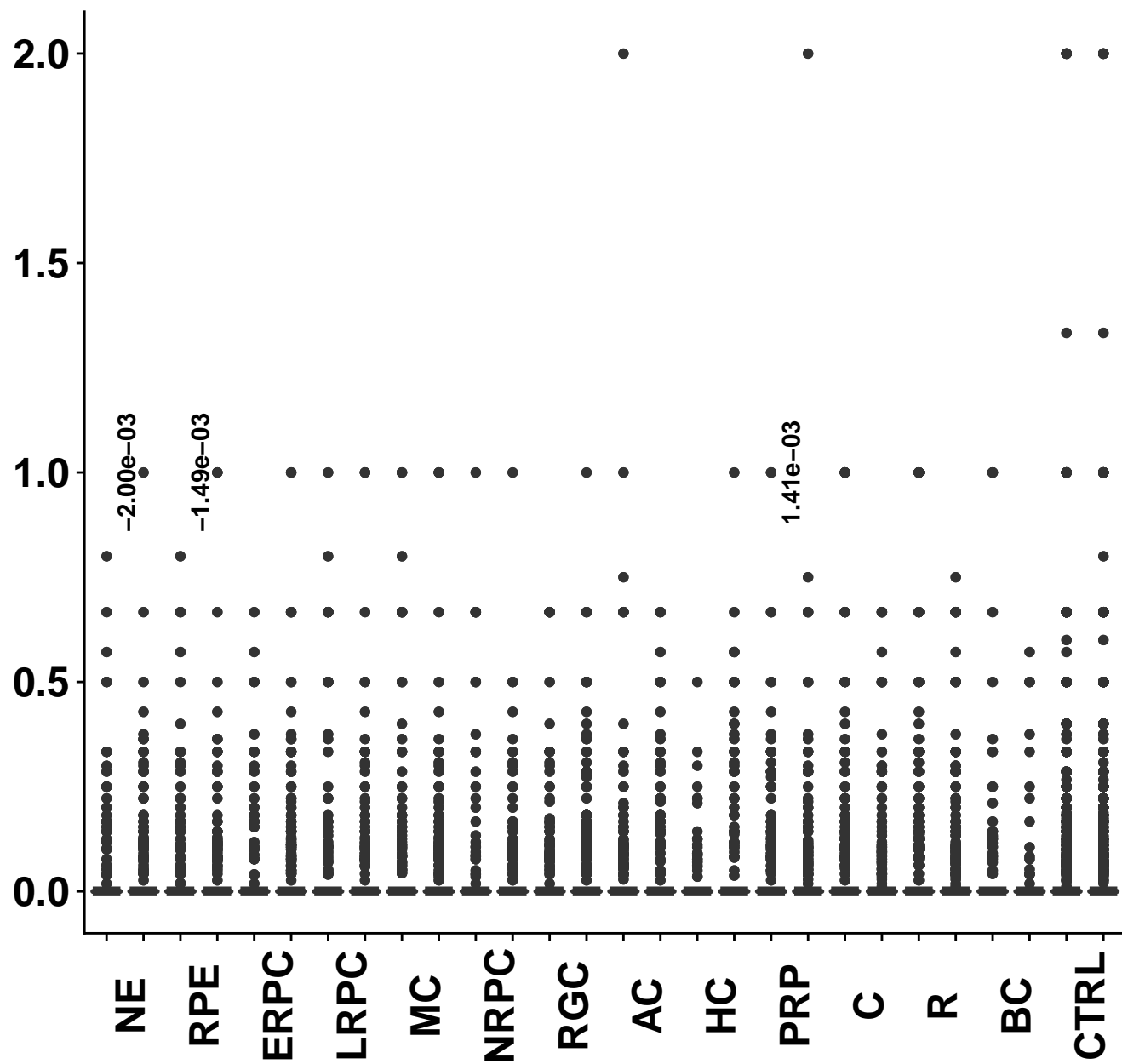
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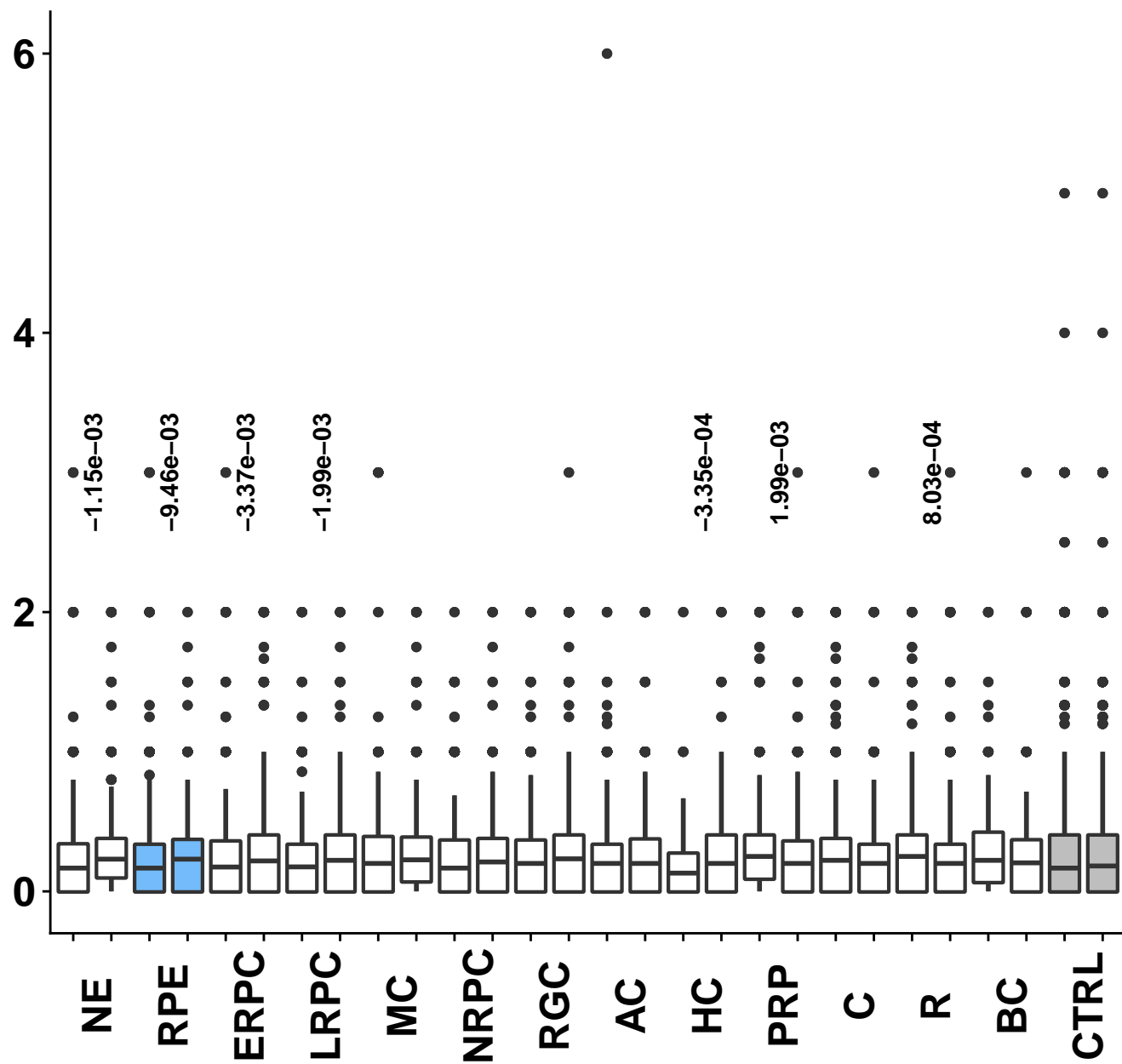
Zeb1_2_mean



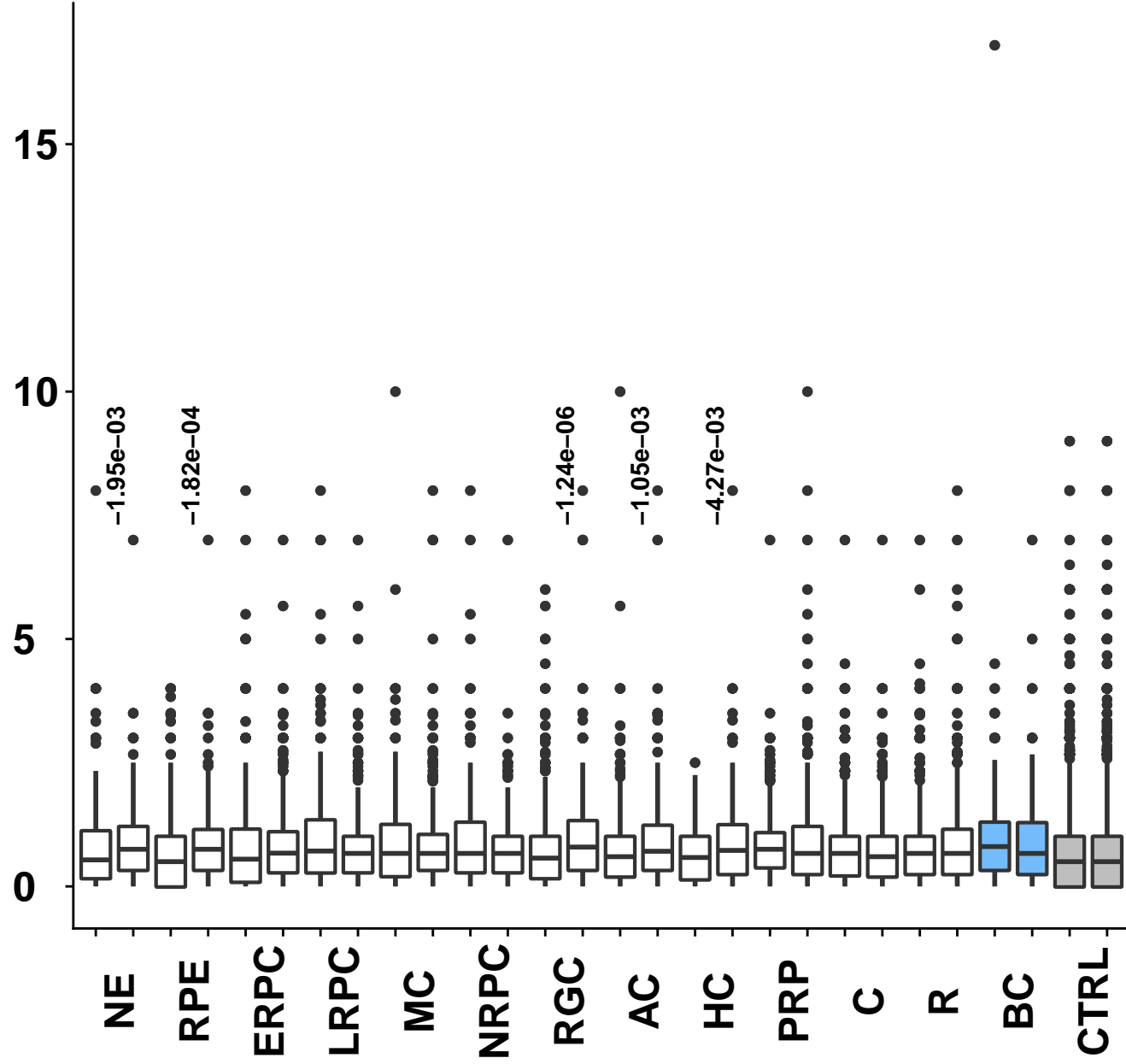
Bhlhe23_1_mean



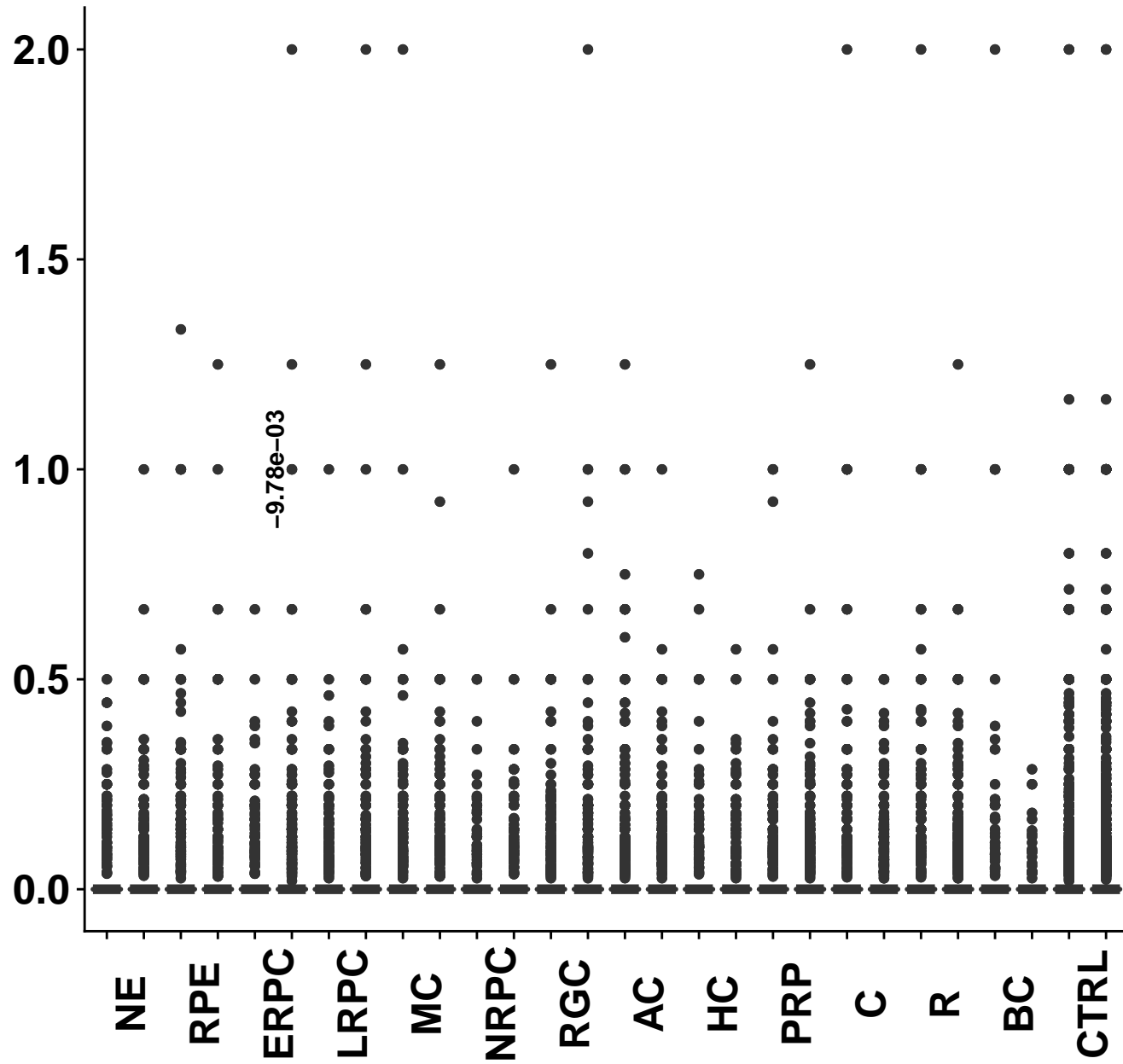
Tbx2_3_mean



Vsx1_1_mean



Vsx1_2_mean



Vsx2_1_mean

