

Supplementary materials
Involvement of RP11-334E6.12 lncRNA in gastric
cancer pathogenesis

Network based data analysis course report

Stefano Cretti

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Suppl0: R session information

```
R version 4.2.0 (2022-04-22 ucrt)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows 10 x64 (build 19043)

Matrix products: default

locale:
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[3] LC_MONETARY=English_United States.utf8 LC_NUMERIC=C
[5] LC_TIME=English_United States.utf8

attached base packages:
[1] stats4      grid       stats      graphics   grDevices utils     datasets   methods
[9] base

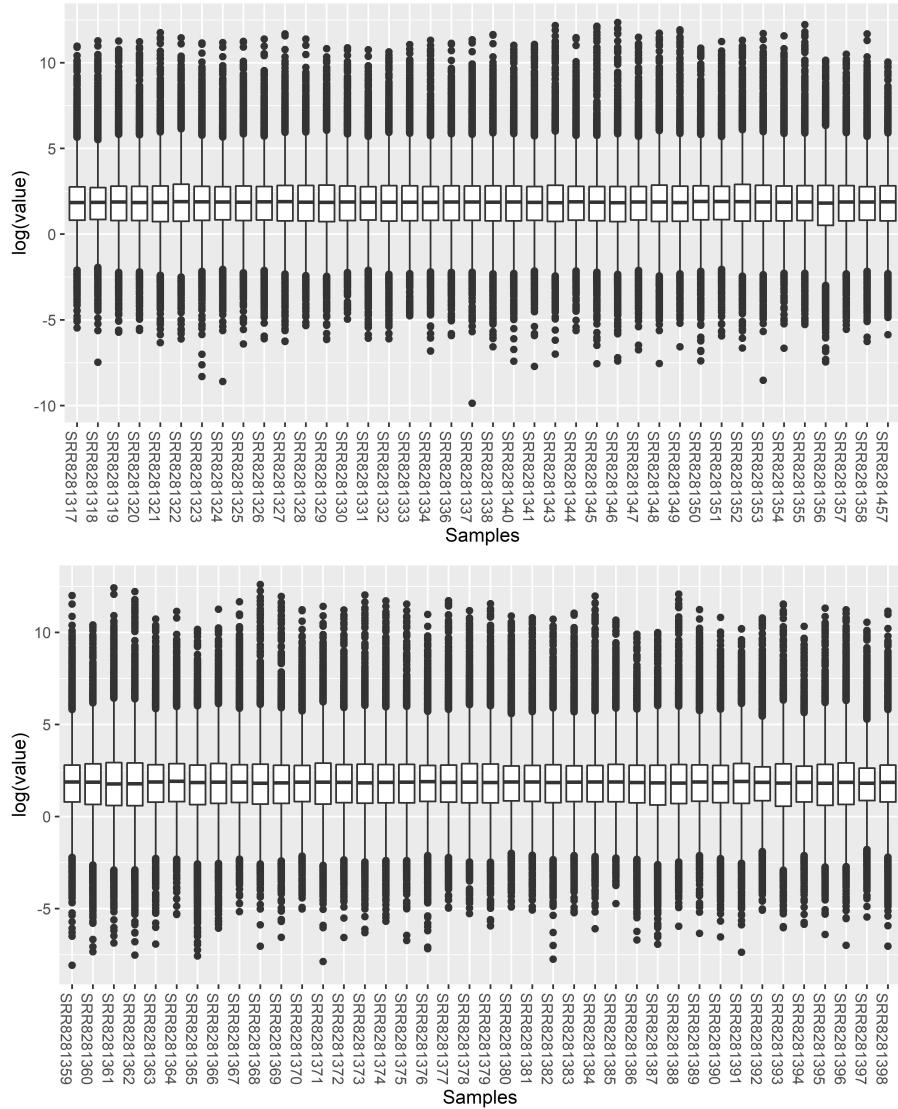
other attached packages:
[1] wilcoxCV_1.0-2          forcats_0.5.1
[3] stringr_1.4.0            dplyr_1.0.9
[5] purrr_0.3.4              readr_2.1.2
[7] tidyverse_1.3.1           tibble_3.1.6
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[11] ROCOCR_1.0-11            recount3_1.6.0
[13] SummarizedExperiment_1.26.1 Biobase_2.56.0
[15] GenomicRanges_1.48.0      GenomeInfoDb_1.32.2
[17] IRanges_2.30.0            S4Vectors_0.34.0
[19] BiocGenerics_0.42.0       MatrixGenerics_1.8.0
[21] matrixStats_0.62.0        reshape2_1.4.4
[23] RColorBrewer_1.1-3        colorBlindness_0.1.9
[25] randomForest_4.7-1        PROC_1.18.0
[27] pathfindr_1.6.3           pathfindr.data_1.1.2
[29] MASS_7.3-56                igraph_1.3.1
[31] gprofiler2_0.2.1           gmisc_3.0.0
[33] htmlTable_2.4.0            Rcpp_1.0.8.3
[35] glue_1.6.2                 glmnet_4.1-4
[37] Matrix_1.4-1               genefilter_1.78.0
[39] factoextra_1.0.7           edgeR_3.38.1
[41] limma_3.52.1               dendextend_1.15.2
[43] ComplexHeatmap_2.13.1      circlize_0.4.15
[45] caret_6.0-92                lattice_0.20-45
[47] ggplot2_3.3.6
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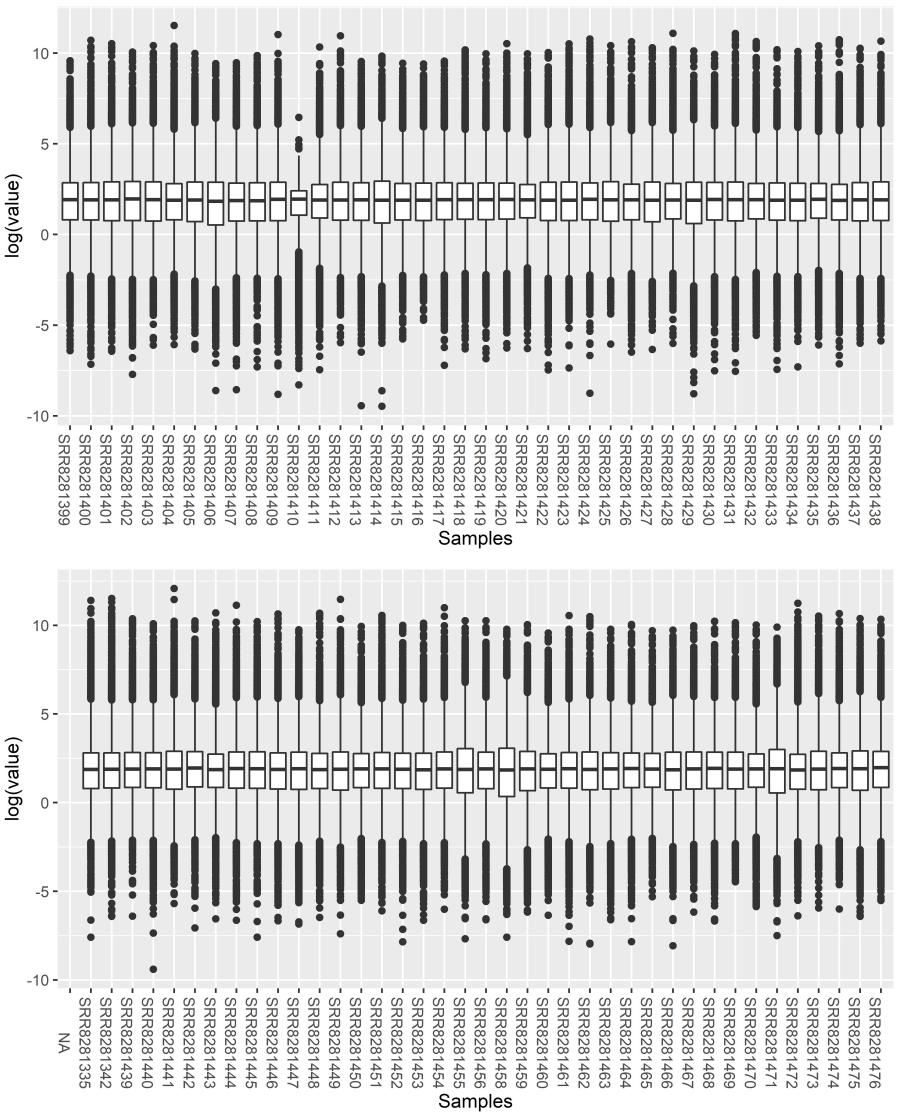
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loaded via a namespace (and not attached):
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[4] RSQLite_2.2.14                AnnotationDbi_1.58.0
[7] BiocParallel_1.30.0           munspell_0.5.0
[10] future_1.25.0                withr_2.5.0
[13] filelock_1.0.2                knitr_1.39
[16] listenv_0.8.0                GenomeInfoDbData_1.2.8
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[25] xfun_0.30                    BiocFileCache_2.4.0
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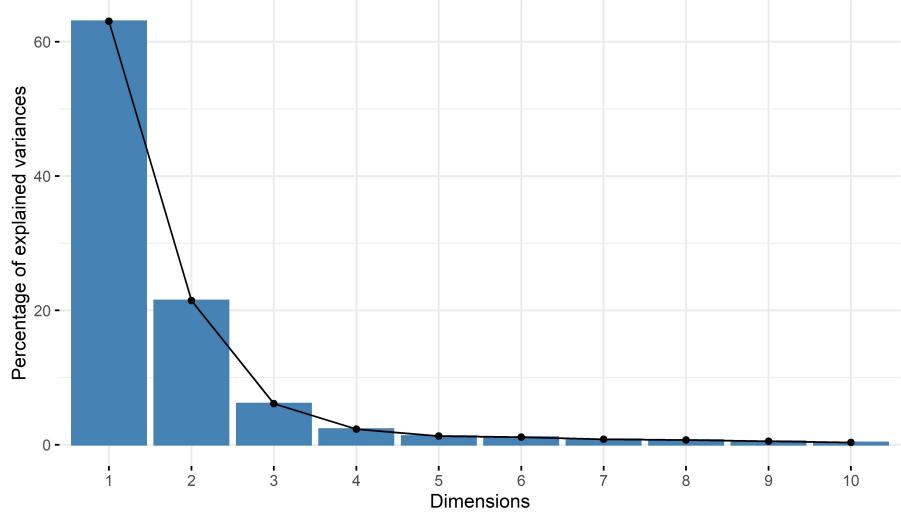
Suppl1: Distributions of the cpm's for each sample





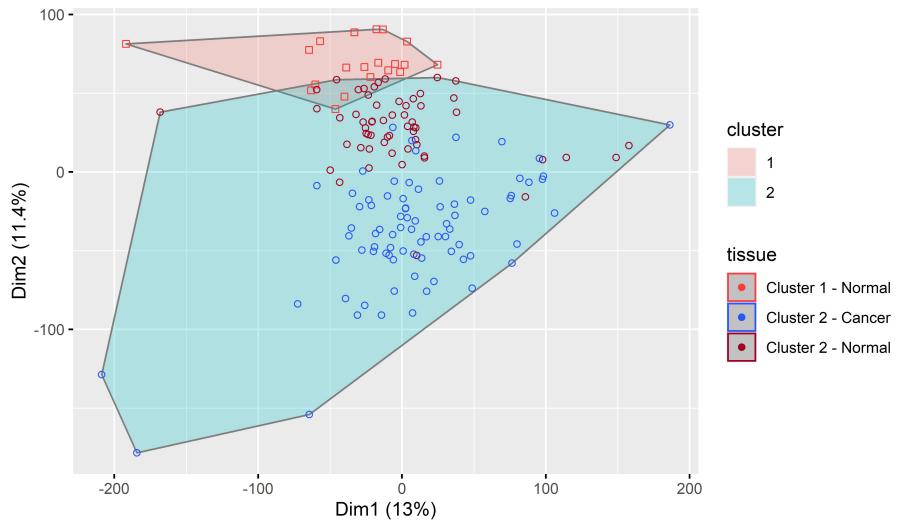
Suppl2: Scree plot

Scree plot

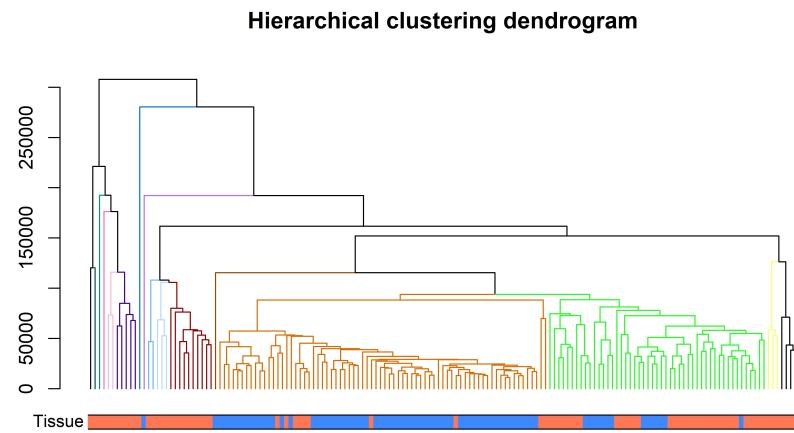


Suppl3: K means plot

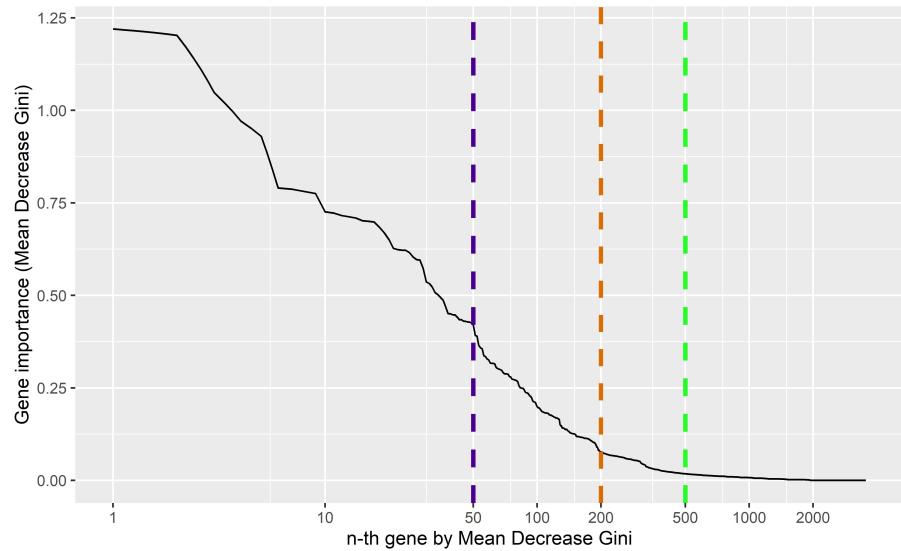
K-Means Results



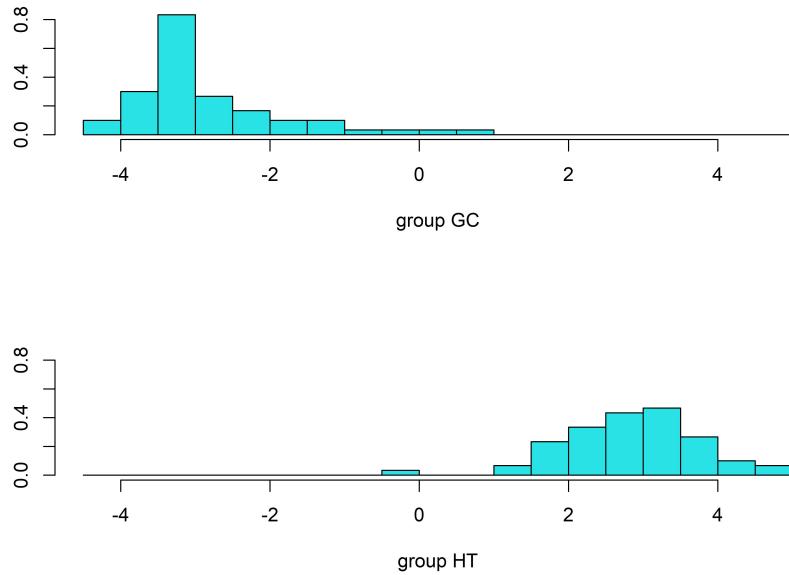
Suppl4: Hierarchical clustering



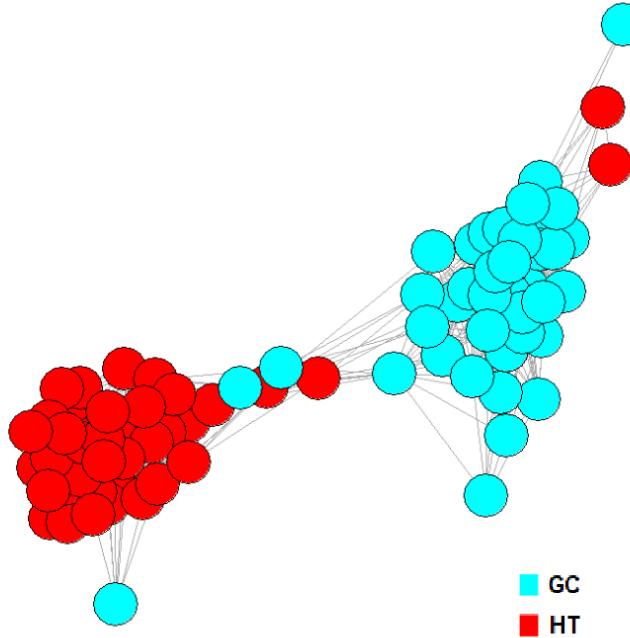
Suppl5: Gene contribution to random forest model



Suppl6: Linear discriminant analysis plot



Suppl7: SCUDO separation



Suppl8: lncRNA connections with pathologies

Gene	Class	Associations	PMID
MIR4435-2HG	sense intronc	breast cancer cervical cancer colorectal cancer gastric cancer melanoma	35447550 34558723
RP1-102K2.8	antisense	breast cancer melanoma gastric cancer	29478268 33781093 30723491
WISP1-OT1	sense intronic	unclear, maybe WNT path?	
RP11-334E6.12	antisense	breast	32104091