

rTRMui: a shiny user interface for the identification of transcriptional regulatory modules

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1 Introduction

To install rTRMui you need to have installed rTRM and shiny. To use rTRMui load the library and then just run `runTRM()` from the R prompt:

```
> library(rTRMui)
> runTRM()
```

This will open a web browser and show the rTRMui home page (Figure 1). Instructions on how to use rTRMui are available in the *Help* tab from the rTRMui server. Example datasets can be downloaded from the home page and used with the *Tutorial*.

2 System information

```
> sessionInfo()
```

```
R version 3.2.2 (2015-08-14)
Platform: x86_64-pc-linux-gnu (64-bit)
Running under: Ubuntu 14.04.3 LTS
```

```
locale:
```

```
[1] LC_CTYPE=en_US.UTF-8      LC_NUMERIC=C
[3] LC_TIME=en_US.UTF-8      LC_COLLATE=C
[5] LC_MONETARY=en_US.UTF-8  LC_MESSAGES=en_US.UTF-8
[7] LC_PAPER=en_US.UTF-8     LC_NAME=C
[9] LC_ADDRESS=C             LC_TELEPHONE=C
[11] LC_MEASUREMENT=en_US.UTF-8 LC_IDENTIFICATION=C
```

```
attached base packages:
```

```
[1] stats      graphics  grDevices  utils      datasets  methods   base
```

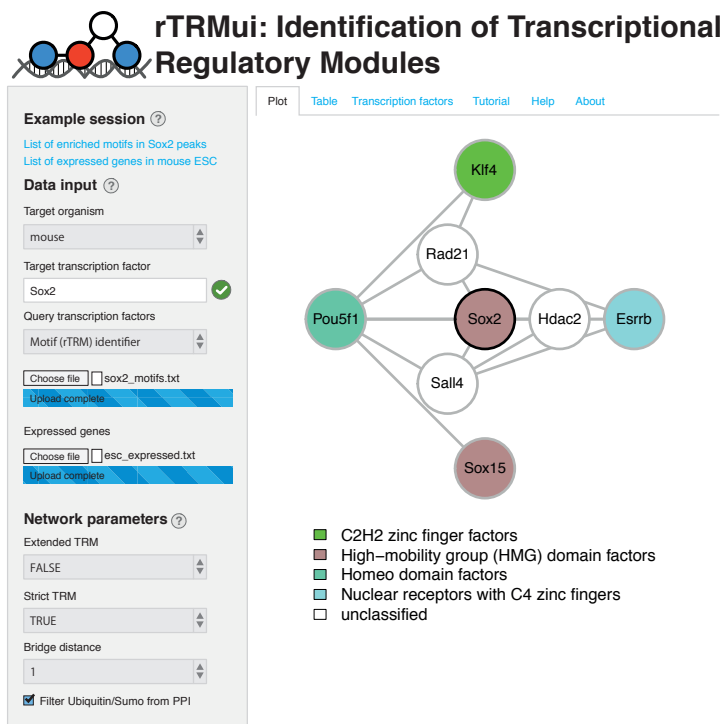


Figure 1: rTRMui home page showing the TRM identified using the sample datasets from the tutorial.

other attached packages:

```
[1] rTRMui_1.8.0  RSQLite_1.0.0 DBI_0.3.1
```

loaded via a namespace (and not attached):

```
[1] Rcpp_0.12.1          futile.logger_1.4.1
[3] GenomeInfoDb_1.6.0  XVector_0.10.0
[5] MotifDb_1.12.0      bitops_1.0-6
[7] futile.options_1.0.0 tools_3.2.2
[9] zlibbioc_1.16.0     digest_0.6.8
[11] igraph_1.0.1        shiny_0.12.2
[13] parallel_3.2.2      rtracklayer_1.30.0
[15] org.Mm.eg.db_3.2.3  Biobase_2.38.0
[17] S4Vectors_0.8.0    IRanges_2.4.0
[19] stats4_3.2.2       Biobase_2.30.0
[21] R6_2.1.1           AnnotationDbi_1.32.0
[23] XML_3.98-1.3       BiocParallel_1.4.0
[25] lambda.r_1.1.7     org.Hs.eg.db_3.2.3
```

[27]	magrittr_1.5	Rsamtools_1.22.0
[29]	htmltools_0.2.6	BiocGenerics_0.16.0
[31]	GenomicRanges_1.22.0	GenomicAlignments_1.6.0
[33]	SummarizedExperiment_1.0.0	mime_0.4
[35]	xtable_1.7-4	httpuv_1.3.3
[37]	RCurl_1.95-4.7	rTRM_1.8.0