

# 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 3.5.0 (2018-04-23)
Platform: x86_64-w64-mingw32/x64 (64-bit)
Running under: Windows Server 2012 R2 x64 (build 9600)
```

```
Matrix products: default
```

```
locale:
[1] LC_COLLATE=C
[2] LC_CTYPE=English_United States.1252
[3] LC_MONETARY=English_United States.1252
[4] LC_NUMERIC=C
[5] LC_TIME=English_United States.1252
```

```
attached base packages:
```



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

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

other attached packages:

```
[1] rTRMui_1.18.0
```

loaded via a namespace (and not attached):

```
[1] Rcpp_0.12.16      GenomeInfoDb_1.16.0
[3] compiler_3.5.0    later_0.7.1
[5] MotifDb_1.22.0    XVector_0.20.0
[7] bitops_1.0-6      tools_3.5.0
[9] zlibbioc_1.26.0   digest_0.6.15
[11] bit_1.1-12        lattice_0.20-35
[13] RSQLite_2.1.0     memoise_1.1.0
[15] pkgconfig_2.0.1   Matrix_1.2-14
[17] igraph_1.2.1      DelayedArray_0.6.0
[19] shiny_1.0.5       DBI_0.8
[21] parallel_3.5.0    GenomeInfoDbData_1.1.0
[23] org.Mm.eg.db_3.6.0 rtracklayer_1.40.0
```

[25]	Biostrings_2.48.0	S4Vectors_0.18.0
[27]	IRanges_2.14.0	grid_3.5.0
[29]	stats4_3.5.0	bit64_0.9-7
[31]	data.table_1.10.4-3	Biobase_2.40.0
[33]	R6_2.2.2	AnnotationDbi_1.42.0
[35]	BiocParallel_1.14.0	XML_3.98-1.11
[37]	org.Hs.eg.db_3.6.0	blob_1.1.1
[39]	magrittr_1.5	matrixStats_0.53.1
[41]	GenomicAlignments_1.16.0	Rsamtools_1.32.0
[43]	GenomicRanges_1.32.0	promises_1.0.1
[45]	htmltools_0.3.6	BiocGenerics_0.26.0
[47]	SummarizedExperiment_1.10.0	splitstackshape_1.4.4
[49]	mime_0.5	xtable_1.8-2
[51]	httpuv_1.4.1	RCurl_1.95-4.10
[53]	rTRM_1.18.0	