

Installation

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Dependencies

KEGGREST Seurat SeuratObject sp dplyr Matrix

If not installed already, we recommend to first install the latest version of Seurat and SeuratObject.

```
# we remove the last version to demonstrate installation
remove.packages("CellSpectra")

## Removing package from '/Library/Frameworks/R.framework/Versions/4.2-arm64/Resources/library'
## (as 'lib' is unspecified)

#time stamp
start.time <- Sys.time()

# download the .tar.gz file and change to the respective path
install.packages("/Users/konstantin/Documents/GitHub/CellSpectra_0.1.0.tar.gz", repos = NULL, type = "s
```

Load

Check if we can load CellSpectra

```
end.time <- Sys.time()

execution_time <- end.time - start.time

print(execution_time)
```

Time difference of 10.72674 secs

```
sessionInfo()
```

```
## R version 4.2.2 (2022-10-31)
## Platform: aarch64-apple-darwin20 (64-bit)
## Running under: macOS 15.1.1
##
## Matrix products: default
## BLAS: /Library/Frameworks/R.framework/Versions/4.2-arm64/Resources/lib/libRblas.0.dylib
## LAPACK: /Library/Frameworks/R.framework/Versions/4.2-arm64/Resources/lib/libRlapack.dylib
```

```
##
## locale:
## [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods   base
##
## other attached packages:
## [1] CellSpectra_0.1.0
##
## loaded via a namespace (and not attached):
## [1] compiler_4.2.2      pillar_1.9.0        GenomeInfoDb_1.34.9
## [4] XVector_0.38.0      bitops_1.0-7        tools_4.2.2
## [7] zlibbioc_1.44.0     digest_0.6.31       lattice_0.20-45
## [10] evaluate_0.20       lifecycle_1.0.4     tibble_3.2.1
## [13] pkgconfig_2.0.3     png_0.1-8           rlang_1.1.4
## [16] Matrix_1.6-5        cli_3.6.3           rstudioapi_0.14
## [19] yaml_2.3.7          xfun_0.42           fastmap_1.1.1
## [22] GenomeInfoDbData_1.2.9 httr_1.4.5          dplyr_1.1.4
## [25] knitr_1.45          Biobstrings_2.66.0  generics_0.1.3
## [28] S4Vectors_0.36.1    vctrs_0.6.5         IRanges_2.32.0
## [31] grid_4.2.2          tidyselect_1.2.1    stats4_4.2.2
## [34] glue_1.8.0          R6_2.5.1            fansi_1.0.6
## [37] rmarkdown_2.20      purrr_1.0.2         tidyr_1.3.1
## [40] magrittr_2.0.3      htmltools_0.5.4     BiocGenerics_0.44.0
## [43] KEGGREST_1.38.0     utf8_1.2.4          RCurl_1.98-1.10
## [46] crayon_1.5.2
```