

Test

17 December 2021

Contents

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Now that we have the files that we need, we can import the data into R using `read10xVisium()` from `SpatialExperiment`. We'll import the low resolution histology images produced by `spac` `eranger` using the `images = "lowres"` and `load = TRUE` arguments. We'll also load the filtered gene expression data using the `data = "filtered"` argument. The count matrix can still be quite large, which is why we'll use the `type = "sparse"` argument to load the data into an R object that is memory-efficient for sparse data.

```
options(width = 120)
sessioninfo::session_info()
## - Session info -----
## setting value
## version R version 4.1.2 (2021-11-01)
## os      macOS Big Sur 10.16
## system x86_64, darwin17.0
## ui      X11
## language (EN)
## collate en_US.UTF-8
## ctype   en_US.UTF-8
## tz      America/New_York
## date    2021-12-17
## pandoc  2.16.2 @ /usr/local/bin/ (via rmarkdown)
##
## - Packages -----
## package * version date (UTC) lib source
## BiocManager 1.30.16 2021-06-15 [1] CRAN (R 4.1.0)
## BiocStyle * 2.23.1 2021-12-17 [1] Github (Bioconductor/BiocStyle@932ae2e)
## bookdown 0.24 2021-09-02 [1] CRAN (R 4.1.0)
## cachem 1.0.6 2021-08-19 [1] CRAN (R 4.1.0)
## callr 3.7.0 2021-04-20 [1] CRAN (R 4.1.0)
## cli 3.1.0 2021-10-27 [1] CRAN (R 4.1.0)
## colorout 1.2-2 2021-11-23 [1] Github (jalvesaq/colorout@79931fd)
## crayon 1.4.2 2021-10-29 [1] CRAN (R 4.1.0)
## desc 1.4.0 2021-09-28 [1] CRAN (R 4.1.0)
## devtools * 2.4.3 2021-11-30 [1] CRAN (R 4.1.2)
## digest 0.6.29 2021-12-01 [1] CRAN (R 4.1.2)
## ellipsis 0.3.2 2021-04-29 [1] CRAN (R 4.1.0)
## evaluate 0.14 2019-05-28 [1] CRAN (R 4.1.0)
## fastmap 1.1.0 2021-01-25 [1] CRAN (R 4.1.0)
## fs 1.5.2 2021-12-08 [1] CRAN (R 4.1.0)
## glue 1.6.0 2021-12-17 [1] CRAN (R 4.1.2)
## htmltools 0.5.2 2021-08-25 [1] CRAN (R 4.1.0)
## knitr 1.37 2021-12-16 [1] CRAN (R 4.1.2)
## lifecycle 1.0.1 2021-09-24 [1] CRAN (R 4.1.0)
## magrittr 2.0.1 2020-11-17 [1] CRAN (R 4.1.0)
## memoise 2.0.1 2021-11-26 [1] CRAN (R 4.1.0)
## pkgbuild 1.3.0 2021-12-09 [1] CRAN (R 4.1.0)
## pkgload 1.2.4 2021-11-30 [1] CRAN (R 4.1.2)
## prettyunits 1.1.1 2020-01-24 [1] CRAN (R 4.1.0)
## processx 3.5.2 2021-04-30 [1] CRAN (R 4.1.0)
## prompt 1.0.1 2021-11-24 [1] Github (gaborcsardi/prompt@7ef0f2e)
## ps 1.6.0 2021-02-28 [1] CRAN (R 4.1.0)
## purrr 0.3.4 2020-04-17 [1] CRAN (R 4.1.0)
```

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```
## R6                2.5.1    2021-08-19 [1] CRAN (R 4.1.0)
## remotes           2.4.2    2021-11-30 [1] CRAN (R 4.1.2)
## rlang             0.4.12   2021-10-18 [1] CRAN (R 4.1.0)
## rmarkdown         2.11     2021-09-14 [1] CRAN (R 4.1.0)
## rprojroot         2.0.2    2020-11-15 [1] CRAN (R 4.1.0)
## rsthemes          0.3.1    2021-11-23 [1] Github (gadenbuie/rsthemes@bbe73ca)
## rstudioapi        0.13     2020-11-12 [1] CRAN (R 4.1.0)
## sessioninfo       1.2.2    2021-12-06 [1] CRAN (R 4.1.0)
## stringi           1.7.6    2021-11-29 [1] CRAN (R 4.1.2)
## stringr           1.4.0    2019-02-10 [1] CRAN (R 4.1.0)
## testthat          * 3.1.1    2021-12-03 [1] CRAN (R 4.1.0)
## usethis           * 2.1.5    2021-12-09 [1] CRAN (R 4.1.0)
## withr             2.4.3    2021-11-30 [1] CRAN (R 4.1.2)
## xfun              0.29     2021-12-14 [1] CRAN (R 4.1.0)
## yaml              2.2.1    2020-02-01 [1] CRAN (R 4.1.0)
##
## [1] /Library/Frameworks/R.framework/Versions/4.1/Resources/library
##
## -----
```