

Immuncantation reticulation - full Turner dataset

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Motivation

This Rmd will download, install and execute IgBLAST (IGMT references) and Immcantation suite.

Downloading the Immcantation docker image would probably be as effective, if you're more familiar with Docker.

Here we need to VDJ assign for the whole of Turner et al., to trak clones from PBMC and FNA.

```
## [1] 0

## [[1]]
## [1] 0
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## [[2]]
## [1] 0
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## [[3]]
## [1] 0
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## [[4]]
## [1] 0
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## [[5]]
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## [[7]]
## [1] 0
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## [[8]]
## [1] 0
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## [[9]]
## [1] 0
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## [[10]]
## [1] 0
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## [[11]]
## [1] 0
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## [[12]]
## [1] 0
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## [[13]]
## [1] 0
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## [[14]]
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## [[15]]
## [1] 0
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## [[16]]
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## [[17]]
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## [[18]]
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## [[19]]
## [1] 0
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## [[20]]
## [1] 0
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## [[21]]
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## [1] 0

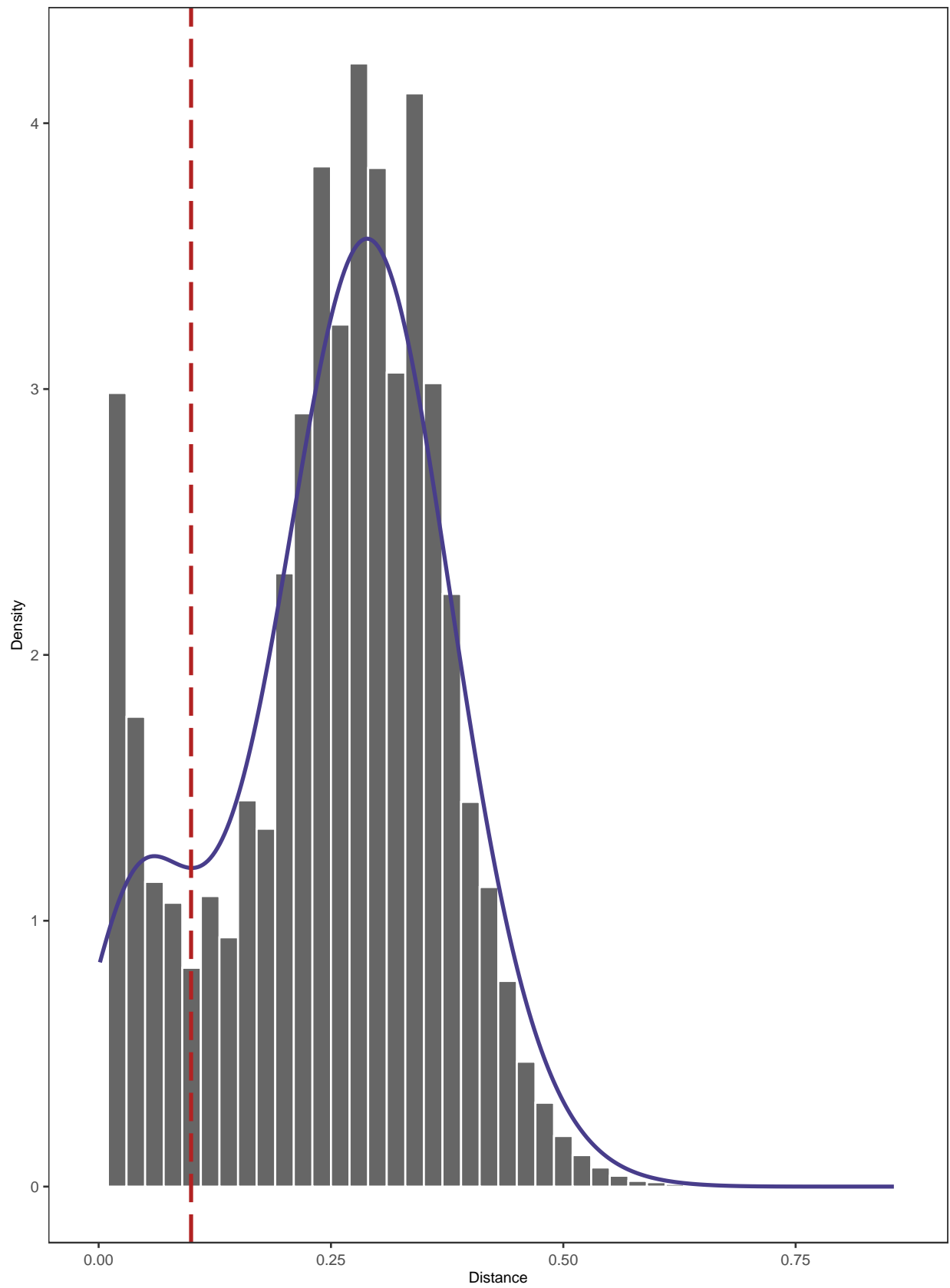
## [1] FALSE

## [1] 0

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## [1] 0
```

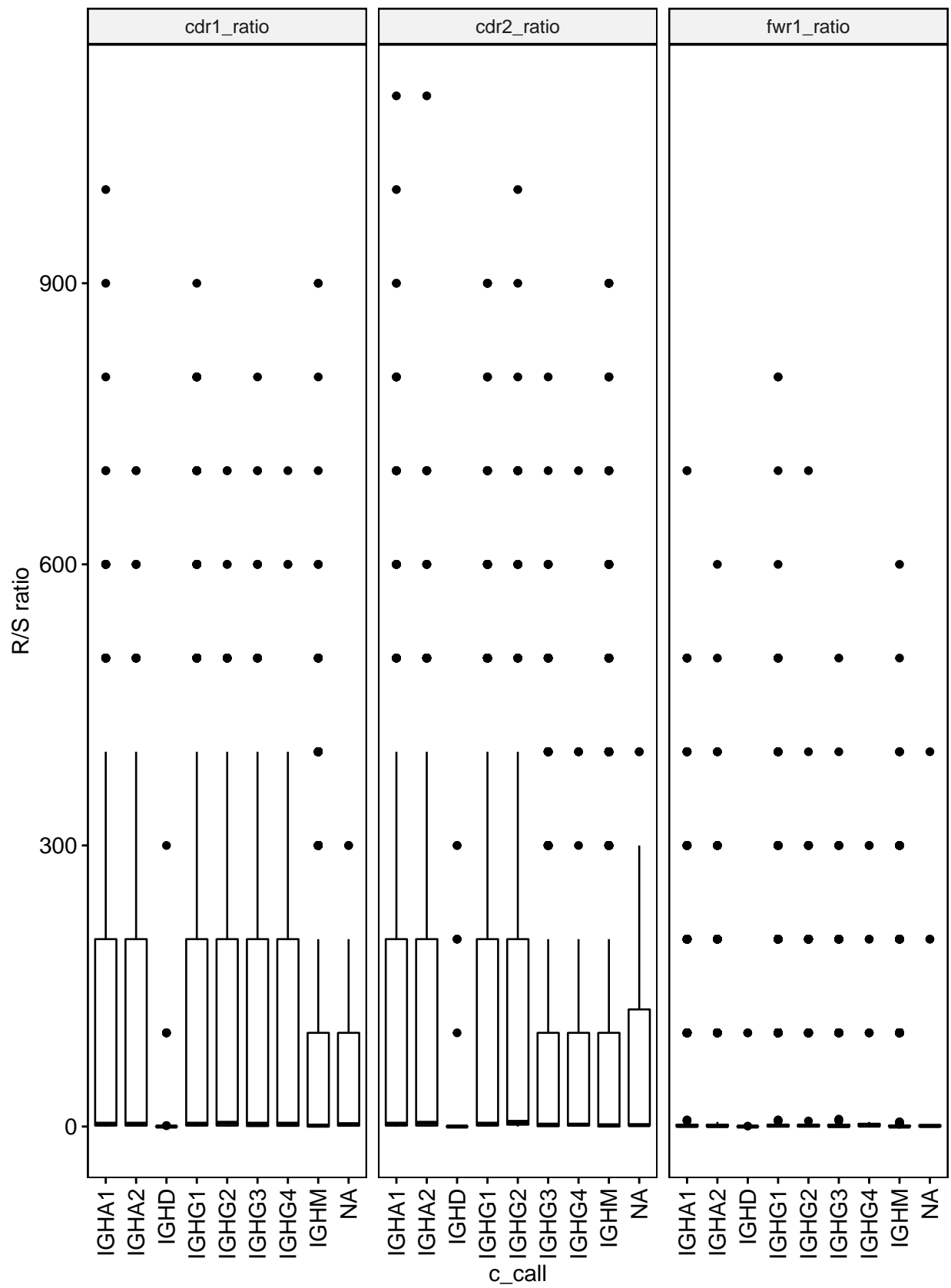


```
## [1] 0.09946847
```

```
## [1] 0
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## [1] 0
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## [1] 0
```



SessionInfo

```
## R version 3.6.1 (2019-07-05)
## Platform: x86_64-pc-linux-gnu (64-bit)
## Running under: CentOS Linux 7 (Core)
##
## Matrix products: default
## BLAS: /bi/apps/R/3.6.1/lib64/R/lib/libRblas.so
## LAPACK: /bi/apps/R/3.6.1/lib64/R/lib/libRlapack.so
##
## locale:
## [1] LC_CTYPE=en_GB.UTF-8          LC_NUMERIC=C
## [3] LC_TIME=en_GB.UTF-8          LC_COLLATE=en_GB.UTF-8
## [5] LC_MONETARY=en_GB.UTF-8      LC_MESSAGES=en_GB.UTF-8
## [7] LC_PAPER=en_GB.UTF-8         LC_NAME=C
## [9] LC_ADDRESS=C                 LC_TELEPHONE=C
## [11] LC_MEASUREMENT=en_GB.UTF-8   LC_IDENTIFICATION=C
##
## attached base packages:
## [1] stats      graphics  grDevices  utils      datasets  methods    base
##
## other attached packages:
## [1] forcats_0.4.0  stringr_1.4.0  dplyr_1.0.2    purrr_0.3.3
## [5] readr_1.3.1    tidyr_1.0.0    tibble_3.0.4   tidyverse_1.3.0
## [9] alakazam_1.0.2 shazam_1.0.2    ggplot2_3.3.2  reticulate_1.14
##
## loaded via a namespace (and not attached):
## [1] httr_1.4.1      jsonlite_1.6    foreach_1.4.7    modelr_0.1.5
## [5] assertthat_0.2.1 cellranger_1.1.0 yaml_2.2.0        progress_1.2.2
## [9] pillar_1.4.7    backports_1.1.5 lattice_0.20-38   glue_1.4.2
## [13] digest_0.6.29   ggsignif_0.6.0  rvest_0.3.5      colorspace_1.4-1
## [17] htmltools_0.5.2 Matrix_1.2-17    pkgconfig_2.0.3   broom_0.7.3
## [21] haven_2.2.0     scales_1.1.0    generics_0.0.2    farver_2.0.1
## [25] ggpubr_0.2.4    ellipsis_0.3.0  withr_2.1.2       lazyeval_0.2.2
## [29] cli_2.0.0        magrittr_1.5     crayon_1.3.4      readxl_1.3.1
## [33] evaluate_0.14    fansi_0.4.0      fs_1.3.1          doParallel_1.0.15
## [37] nlme_3.1-141     MASS_7.3-51.4    xml2_1.2.2        tools_3.6.1
## [41] prettyunits_1.0.2 hms_0.5.2        lifecycle_0.2.0   munsell_0.5.0
## [45] reprex_0.3.0     ade4_1.7-13      compiler_3.6.1     rlang_0.4.10
## [49] grid_3.6.1       rstudioapi_0.10  iterators_1.0.12   rappdirs_0.3.1
## [53] igraph_1.2.4.2    labeling_0.3      rmarkdown_2.14     gtable_0.3.0
## [57] codetools_0.2-16 DBI_1.1.0         R6_2.4.1           lubridate_1.7.4
## [61] knitr_1.26        fastmap_1.1.0     seqinr_3.6-1       KernSmooth_2.23-15
## [65] ape_5.3           stringi_1.4.3     parallel_3.6.1     kedd_1.0.3
## [69] Rcpp_1.0.3        vctrs_0.3.6       dbplyr_1.4.2       tidymodels_1.1.0
## [73] xfun_0.31         diptest_0.75-7
```