Verification Report: immuno_tabular

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2021/04/17

Description

This is the verification report for the `immuno_tabular` folder of the `correlates_reporting` project for CoVPN.

In this document, the output of `make_table_all.R` is compared against the output of `immuno_table_verification.Rmd`. The two scripts use the same base mock data. The two datasets generated by each of the two scripts will be compared with each other to confirm they contain the same values.

`immuno_table_verification.Rmd` was independently double programmed based on the specifications found in `table_specifications.pdf`. This script outputs its processing to `verification/verification_output/immuno_tabular_verification_output_tables1.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table2.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table3.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table5.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table6.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table7.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table8.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table9.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table10.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table11.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table12.Rdata`.

The file `verification/verification_input/practice_data.csv` and `verification/verification_input/Tables_verificatiton_immuno.Rdata` were provided by the original programmer to the tester for verification purposes of `make_table_all.R` when all time points are available. Their md5 hash are 66c9b812009e4a4a220929dcb27b787f, 14e6c275c4b32d40814f9e5904f07ac9.

The file `verification/verification_output/immuno_tabular_verification_output_tables1.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table2.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table3.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table5.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table6.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table7.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table8.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table9.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table10.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table11.Rdata`, `verification/verification_output/immuno_tabular_verification_output_table12.Rdata` were created by the tester for verification using the `immuno_table_verification.Rmd` script and using all time points available. Their md5 hash are 0e971ce3456396fb2baaf93ee5c92fd5, 451721643cc409286e48e2e18596bb68, 0127cd4205e235f5d203a381ceb032d4, f3f5995ce1683b22dfd063ce4f05ff8b,

0f8479f2725635a3e225d6369c222c67,
d0030c1040c3f81119e4fbef91e56f84,
4794a7b773b438ad06e8348abafa5e3d,
826f74fe8765adab17e743eba91e2f34,
17b560b13b16d751c5fdb709a1ba1b36,
3d5a2789e70cc5b0a6731c7506e5b8ff,
0885dc29c65992903f990125742552d2.

Load Data

```r
original_data <- load(
  here("verification","verification_input","Tables_verificatiton_immuno.Rdata")
  )
verification_data1 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_tables1.Rdata")
  )
verification_data2<- load(
  here("verification","verification_output","immuno_tabular_verification_output_table2.Rdata")
  )
verification_data3 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table3.Rdata")
  )
verification_data5 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table5.Rdata")
  )
verification_data6 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table6.Rdata")
  )
verification_data7 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table7.Rdata")
  )
verification_data8 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table8.Rdata")
  )
verification_data9<- load(
  here("verification","verification_output","immuno_tabular_verification_output_table9.Rdata")
  )
verification_data10 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table10.Rdata")
  )
verification_data11 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table11.Rdata")
  )
verification_data12 <- load(
  here("verification","verification_output","immuno_tabular_verification_output_table12.Rdata")
  )
```

Verification

```
tab_dm_neg[] <- lapply(tab_dm_neg, as.character)
suppressWarnings(testthat::expect_equal(rr_table1.1, tab_dm_neg))

tab_dm_pos[] <- lapply(tab_dm_pos, as.character)
suppressWarnings(testthat::expect_equal(rr_table1.2, tab_dm_pos))

tab_bind[] <- lapply(tab_bind, as.character)
suppressWarnings(testthat::expect_equal(tab_bind, rr_table2_all))

tab_pseudo[] <- lapply(tab_pseudo, as.character)
suppressWarnings(testthat::expect_equal(tab_pseudo, rr_table3_all_sub))

tab_gm[] <- lapply(tab_gm, as.character)
suppressWarnings(testthat::expect_equal(tab_gm, rr_table5_all))

tab_gmr[] <- lapply(tab_gmr, as.character)
suppressWarnings(testthat::expect_equal(tab_gmr, rr_table6_all))

tab_rgmt[] <- lapply(tab_rgmt, as.character)
suppressWarnings(testthat::expect_equal(tab_rgmt, rr_table7_all))

tab_rrdiff[] <- lapply(tab_rrdiff, as.character)
suppressWarnings(testthat::expect_equal(tab_rrdiff, rr_table8_all))

tab_neg[] <- lapply(tab_neg, as.character)
suppressWarnings(testthat::expect_equal(tab_neg, rr_table9_all))

tab_pos[] <- lapply(tab_pos, as.character)
suppressWarnings(testthat::expect_equal(tab_pos, rr_table10_all))

tab_vacc[] <- lapply(tab_vacc, as.character)
suppressWarnings(testthat::expect_equal(tab_vacc, rr_table11_all))

tab_plcb[] <- lapply(tab_plcb, as.character)
suppressWarnings(testthat::expect_equal(tab_plcb, rr_table12_all))
```

Signatures

Role	Name	Signature	Date
Tester	Yiwen Lu		